SITE CHARACTERIZATION REPORT

Former Tank 970 / Artesia Station West
NMOCD Incident No. NCE2003752717
Unit G, Section 28, Township 18S, Range 28E
Latitude 32.71917, Longitude -104.18119
Eddy County, New Mexico
January 2021

Project Number: 390691

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1.0 INTRODUCTION

TRC Environmental Corporation (TRC) has prepared this Site Characterization Report on behalf of Holly Energy Partners – Operating, L.P. (HEP). This document summarizes the environmental investigation performed to date at former Tank 970 at HEP's Artesia Station West facility (the "Site"). The Site is located on County Road 229 (also known as Depco Road) approximately 15 miles southeast of Artesia in Eddy County, New Mexico. The Site is located within Unit G, Section 28, Township 18 South, Range 28 East and the coordinates of the release are latitude 32.71917, longitude -104.18119. The Site location is depicted on a topographic map in Figure 1.

2.0 BACKGROUND

2.1 Release Discovery and Notification

Stained soil was observed under former crude oil Tank 970 during its decommissioning, removal, and replacement in December 2019. The hydrocarbon stained soil was observed inside the former tank footprint. There were no free liquids observed at the former location of Tank 970, and there was no liner installed beneath former Tank 970. The Site is leased by HEP and owned by the State of New Mexico. Land use in the Site vicinity is primarily oil and gas production activity and cattle grazing.

Initial Site assessment and delineation activities were conducted on January 22, 2020, to determine if there had been a release from Tank 970, and if so, attempt to determine the nature and extent of soil impacts. Investigation activities were conducted in accordance with the New Mexico Oil Conservation Division (NMOCD) rule 19.15.29 New Mexico Administrative Code (NMAC). The results of the investigation and data evaluation are included in this report. Figure 2 provides the Site layout and soil sample locations, as well as soil analytical data.

HEP determined that a release had occurred from Tank 970 based on the results of field screening performed during the January 2020 investigation. Field screening performed during the investigation included observations of hydrocarbon odor and staining, photo-ionization detector (PID) measurements, and chloride measurements. This is described further in Section 2.2 of this report. The results of the field screening are provided in Table 1.

HEP notified NMOCD of the release by phone and email on January 23, 2020, and submitted a NMOCD C-141 Form (Release Notification Report) on January 29, 2020. A copy of the completed C-141 Form was provided in the initial *Site Characterization Report* (dated April 2020) prepared for this Site and has not been included in this report. The NMOCD accepted the initial notification and C-141 Form by email on February 6, 2020 (also provided in the April 2020 *Site Characterization Report* [April 2020 SCR]), and assigned incident number NCE2003752717.

2.2 Initial Investigation

The initial investigation performed at the Site was documented in the April 2020 SCR. The initial investigation at the Site was performed on January 22, 2020, when eight test pits were excavated

at the Site using a backhoe. Three test pits were excavated within the footprint of former Tank 970, two test pits were excavated south of former Tank 970, and three test pits were excavated west of former Tank 970. Initially two test pits were planned to the west and south (i.e., one in each direction), but additional "step-out" test pits were excavated based on the results of field observations and screening which indicated the presence of petroleum hydrocarbon impacts in the initial test pits. The area to the north of former Tank 970 was inaccessible due to the presence of aboveground utilities and stockpiled gravel. A test pit (TP-6) was attempted to the east of former Tank 970 but was terminated when an abandoned utility line (electrical conduit) was encountered at an approximate depth of 8 inches. After the electrical conduit was observed in the excavation, additional subsurface lines in the area were identified by HEP, preventing additional test pits from being excavated east of former Tank 970.

The total depth of the test pits ranged from 11 to 12 feet below ground surface (bgs). Groundwater was not encountered in any of the test pits. The total depth of the test pits was limited by refusal due to the presence of caliche encountered at a depth of 11 to 12 feet. Unconsolidated sands were observed above the caliche in all of the test pits installed at the Site.

Lithology and field observations of potential hydrocarbon impacts, including hydrocarbon odor, staining, and PID readings, were recorded for each test pit. Field measurements using chloride test kits were also conducted at select intervals in test pits TP-1, TP-2, TP-3, TP-4a, TP-4b, and TP-5. The test pit locations are depicted on Figure 2. The field observations and field screening data are provided in Table 1.

Discrete soil samples were collected from the test pits either by hand, using a shovel, or from the backhoe bucket if the depth of the test trench did not allow for safe sampling via shovel. Non-dedicated sampling equipment was decontaminated prior to its initial use and before each sample was collected. Soil samples were collected for laboratory analysis based on field observations of potential hydrocarbon impact and PID readings. The soil samples were collected from seven of the eight test pits installed at the site. The samples were submitted to ALS Laboratory in Houston, Texas, for laboratory analysis of benzene, toluene, ethylbenzene, and total xylenes (BTEX) by EPA Method SW8260; total petroleum hydrocarbons (TPH) by Environmental Protection Agency (EPA) Method 8015M; and chloride by EPA Method 300. Following investigation and soil sampling activities, the test pits were backfilled with the originally excavated material.

Laboratory analytical results for each soil sample were compared to the NMOCD Closure Criteria for sites where groundwater is deeper than 100 feet bgs (discussed in Section 3.0). The following summarizes exceedances of the applicable NMOCD Closure Criteria:

- Benzene was not detected above the Closure Criterion of 10 milligrams per kilogram (mg/kg) in any soil sample, while total BTEX was detected above the Closure Criterion of 50 mg/kg in soil samples collected from test pits TP-1, TP-3, TP-4a, TP-4b, and TP-5. The vertical extent of total BTEX concentrations that exceed Closure Criteria was vertically delineated in test pits TP-1 and TP-4b.

- The sum of TPH gasoline range organics (GRO), diesel range organics (DRO), and motor oil range organics (MRO) was detected above the Closure Criterion of 2,500 mg/kg in the seven test pits that were sampled. The vertical extent of total TPH concentrations above the Closure Criterion was vertically delineated in test pits TP-1, TP-2, and TP-4c.
- The sum of TPH GRO and DRO (i.e., TPH GRO+DRO) was detected above the Closure Criterion of 1,000 mg/kg in samples collected from test pits TP-1, TP-2, TP-3, TP-4a, TP-4b, and TP-5. The vertical extent of TPH GRO+DRO concentrations above the Closure Criterion was vertically delineated in test pits TP-1 and TP-2.
- Chloride was not detected in any soil sample above the Closure Criterion of 20,000 mg/kg.

The April 2020 SCR concluded that the soil with concentrations above Closure Criteria were not laterally or vertically delineated and recommended that additional assessment be performed. The April 2020 SCR was submitted to the NMOCD on April 22, 2020. The NMOCD approved the April 2020 SCR on June 8, 2020.

Due to COVID travel restrictions in New Mexico in 2020, HEP requested two 90-day extensions to complete the additional Site investigation. The first was requested on July 29, 2020, and was approved by NMOCD that same day. The second was requested on October 20, 2020, and was approved by NMOCD on October 27, 2020.

3.0 NMOCD CLOSURE CRITERIA

Rule 19.15.29 NMAC provides cleanup standards for crude oil spills. The cleanup standards (described in the rule as “Closure Criteria”) are based primarily on depth to groundwater, but are also based on other criteria. Three different Closure Criteria are provided in the rule. The most stringent apply to sites where groundwater is found within 50 feet of the ground surface or if the release occurred within one of the following areas:

- Within 300 feet of any continuously flowing watercourse or any other significant watercourse.
- Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary highwater mark).
- Within 300 feet from an occupied permanent residence, school, hospital, institution or church.
- Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes.
- Within 1,000 feet of any fresh water well or spring.
- Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended.
- Within 300 feet of a wetland.

- Within the area overlying a subsurface mine.
- Within an unstable area such as a karst formation.
- Within a 100-year floodplain.

TRC reviewed available information to determine the applicable Closure Criteria for the Site. The findings of this evaluation are summarized below.

3.1 Groundwater Evaluation

3.1.1 Site Investigation

Groundwater was not encountered during boring installation activities performed during the second round of Site investigation in November 2020. The maximum depth investigated was 112 feet bgs, which was the total depth of boring SB-3. Borings SB-1, SB-2, and SB-4 were each installed to total depths of 102 feet bgs. Boring SB-1 remained open for approximately 48 hours to confirm the absence of groundwater in the top 100 feet of soil. To ensure that boring SB-1 did not collapse, well casing was installed (20 feet of slotted screen and 82 feet of riser pipe) in the boring on Wednesday, November 11, 2020. Upon confirmation of the absence of groundwater, the casing was removed prior to the boring being plugged and abandoned at approximately 5:30 pm on Friday, November 13, 2020.

3.1.2 Depth to Groundwater Records Research in Surrounding Area

The exact depth to groundwater beneath the Site is unknown but is greater than 100 feet bgs based on November 2020 investigation data as discussed in Section 3.1.1. A review of the New Mexico Office of the State Engineer (NMOSE) records indicated two water wells and several water rights are located within 2.5 miles of the Site. As shown on the table below, the recorded depth to groundwater for water well CP 00478 POD1 was 145 feet bgs; the other water well RA 09588 did not have depth to water data.

The water rights within 2.5 miles of the Site that appear in NMOSE's Point of Diversion (POD) Geographic Information System (GIS) Website are also summarized in the table and discussed further below.

NMOSE Listed Water Wells and Water Rights in the Vicinity of the Site

Well ID	Approximate Location Relative to Release Site	Owner	Use	Well Depth and Depth to Water (feet bgs)
RA-12879-POD1 to POD4	At Release Site	HEP	Boring/Monitoring Well Permits Obtained for Site Investigation	No Well/Not Encountered at Total Depth of 112 Feet bgs
RA 09588	0.6 miles to the south	Marathon Oil Company	Well Installed in November 2020	300 feet/Not Reported

NMOSE Listed Water Wells and Water Rights in the Vicinity of the Site				
Well ID	**Approximate Location Relative to Release Site**	**Owner**	**Use**	**Well Depth and Depth to Water (feet bgs)**
RA 08238	0.9 miles to the north	Bogle Farms	Livestock Watering	Not Applicable[1]
RA 08240	1.4 miles to the southwest	Bogle Farms	Livestock Watering	Not Applicable[2]
CP 01662 POD1	1.75 miles to the south-southwest	Key Livestock	Livestock Watering	1,000 feet/Not Provided[3]
CP 00478 POD1	2.25 miles to the south-southwest	John A. Yates	Secondary Recovery of Oil (i.e., industrial)	312 feet/145 feet
RA 08239	2.3 miles to the west	Key Livestock	Livestock Watering	Not Applicable[4]

Notes: [1] This appears to be a water right for 1.47 acre-feet based on historical usage (12/31/1914) that is not associated with a water well.
[2] This appears to be a water right for 1.52 acre-feet based on historical usage (12/31/1945) that is not associated with a water well.
[3] This 2017 application lists a well depth of 1,000 feet and a water right for 3 acre-feet, but no well log or other information confirming that a well was installed at this location is available in NMOSE records.
[4] This appears to be a 2017 sale of a 1.8 acre-feet historical (12/31/1914) water right from Bogle Farms to Key Livestock. However, there is no well associated with these records.

Based on TRC's review of NMOSE records, CP 00478 POD1 is the only well within 2.5 miles of the Site with depth to water information.

3.2 Surface Features and Other Development

TRC reviewed recent aerial photographs, topographic maps, the NMOSE POD GIS website, and information available from the Eddy County, New Mexico Central Appraisal District website. As shown on Figure 3, the Site is not located:

- Within 300 feet of any continuously flowing watercourse or any other significant watercourse.
    - No watercourses (rivers, streams, arroyos, etc.) are apparent within 300 feet of the Site in the aerial photography (Figure 3) or on the topographic map (Figure 1).
- Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary highwater mark).
    - The topographic map, aerial photography, and wetland/floodplain maps (discussed below) each show a playa lake located approximately 650 feet to the south of the Site. However, there is not a lakebed, sinkhole or playa lake located within 200 feet of the Site.

- Within 300 feet from an occupied permanent residence, school, hospital, institution, or church.
    - The aerial photography and information available from the Eddy County, New Mexico Central Appraisal District do not show or list any permanent residence, school, hospital, institution, or church within 300 feet of the Site.
- Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes.
    - No wells or springs located within 500 feet of the Site appear in any of the NMOSE records reviewed.
- Within 1,000 feet of any fresh water well or spring.
    - No fresh water wells or springs located within 1,000 feet of the Site appear in any of the records reviewed.
- Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended.
    - Based on the property and other records reviewed, the Site is not located in incorporated municipal boundaries or within a defined municipal fresh water well field.
- Within the area overlying a subsurface mine.
    - The Site does not overlie a subsurface mine.

3.3 Wetlands, Floodplain, and Karst Geology

A review of the United States Fish and Wildlife Service (USFWS) wetlands map indicates that the Site is not located within 300 feet of a wetland. The New Mexico Bureau of Land Management (BLM) karst potential map indicates the Site is located within the “low karst potential” area. Finally, review of the Federal Emergency Management Act (FEMA) floodplain map indicates the release at the Site is located outside of the 100-year floodplain. Figures 4, 5, and 6 depict the Site and USFWS wetlands, karst potential, and FEMA floodplain information, respectively.

3.4 Closure Criteria Applicable to the Site

Based on this information, the Closure Criteria applicable to the Site are those for sites where groundwater is found at a depth of greater than 100 feet bgs based on site-specific information. A summary of the Closure Criteria is provided in the following table and in Table 2.

NMOCD Closure Criteria

Constituent of Concern		Closure Criteria Based on Depth to Groundwater (mg/kg)		
		≤ 50 feet bgs	51 feet to 100 feet bgs	> 100 feet bgs
Chloride (EPA 300)		600	10,000	20,000
TPH (EPA 8015M)	GRO + DRO + MRO	100	2,500	2,500
	GRO + DRO	NA	1,000	1,000
Total BTEX (EPA 8021 or 8260)		50	50	50
Benzene (EPA 8021 or 8260)		10	10	10

Notes: NA = not applicable.
bgs = below ground surface.
mg/kg = milligrams per kilogram.
GRO = gasoline range organics.
DRO = diesel range organics.
MRO = motor oil range organics.
TPH = total petroleum hydrocarbons.
BTEX = benzene, toluene, ethylbenzene, and total xylenes.
Green highlighted cells denote applicable Closure Criteria.

4.0 SITE ASSESSMENT/CHARACTERIZATION RESULTS

19.15.29.11 NMAC requires that a Site Characterization Report have the components described in Sections 4.1 through 4.5 of this document.

4.1 Site Map

As required by 19.15.29.11 NMAC, a scaled diagram showing significant Site infrastructure, sample locations, and known subsurface features such as utilities is provided as Figure 2.

4.2 Depth to Groundwater

As discussed in Section 3.1, the exact depth to groundwater beneath the Site is unknown. Site-specific information indicates groundwater is not present in the top 112 feet bgs. A review of the NMOSE water well records indicates the depth to groundwater at the nearest well with depth to water information (CP 00478 POD1, located 2.25 miles south-southwest of the Site) is 145 feet bgs.

According to the Geologic Map of New Mexico, soils immediately beneath the Site are mapped as quaternary-aged alluvial or eolian deposits (“Qoa”). These eolian deposits appear to be underlain by the Rustler Formation. The Rustler Formation ranges in thickness from about 200 feet in northern Eddy County to about 500 feet southeast of Carlsbad. It consists of anhydrite,

gypsum, interbedded red and green sandy clay, and some beds of dolomite.[1] The Rustler Formation can yield water to stock wells and some domestic wells, but generally is not desirable for domestic use because of its high chloride and sulfate content [USGS 1952]. This description is consistent with the overall absence of NMOSE-recorded water supply wells in the Site vicinity.

The Rustler Formation overlies the Salado Formation, which consists of halite, small amounts of other potassium salts, and red sandy shale. Groundwater found in the Salado Formation is reportedly a brine and is only used for industrial purposes in Eddy County.

4.3 Wellhead Protection Area

The 0.5-mile wellhead protection area is shown on Figure 1. There are no known water sources, including wells, springs, or other sources of fresh water extraction, within 0.5-mile of the Site.

4.4 Distance to Nearest Significant Watercourse

The horizontal distance to the nearest significant watercourse as defined in Subsection P of 19.15.17.7 NMAC is greater than 0.5-mile from the Site. As depicted on Figure 1, there are several watercourses east of the Site, but all are located greater than 0.5-mile from the Site.

4.5 Site Characteristics

Site characteristics discussed in Section 4.5 refer to the most recent (November 2020) site investigation. Earlier findings from the January 2020 investigation are provided in Section 2.2 of this report.

4.5.1 Summary of Soil Investigation

During November 10-13, 2020, three soil borings (SB-1, SB-2, and SB-3) were installed at the Site using air rotary drilling techniques. The fourth soil boring, SB-4, was installed on December 8, 2020. The intent of the borings was to either vertically delineate impacts above the water table or, if groundwater was encountered prior to vertical delineation, install monitoring wells to assess groundwater. Photographs taken during the investigation are provided in Appendix A. The results of field screening performed during the assessment is summarized on Boring Logs in Appendix B.

The total depth of borings SB-1, SB-2, and SB-4 was 102 feet bgs. Boring SB-3 was installed to a total depth of 112 feet bgs. As previously discussed, groundwater was not encountered at the Site, so none of the borings were converted to monitoring wells.

[1] *Ground-Water Report 3, Geology and Ground-Water Resources of Eddy County, New Mexico*, by G. E. Hendrickson and R. S. Jones, United States Geological Survey, dated 1952, reprinted 1985.

Soil boring SB-1 was installed in the former Tank 970 footprint near the location of Test Pit TP-3, which had the highest concentrations of TPH found at the Site during the initial investigation. Per the plan, soil borings SB-2, SB-3, and SB-4 were installed to the west, northeast, and south of the former tank footprint, respectively.

In addition to the four deeper borings, four hand auger borings (HA-North, HA-East, HA-South, and HA-West) were installed at the Site to laterally delineate soil in the upper 4 feet around the release.

Two foot long soil cores were collected in 5 foot intervals from each air rotary boring using a split spoon sampler. Soil was also collected and evaluated from the hand auger bucket in the hand auger borings. Lithology and field observations of potential presence of petroleum hydrocarbons, including hydrocarbon odor, staining, PID readings, and chloride test kit results, were recorded for each air rotary boring. The boring locations are depicted on Figure 2. As previously mentioned, field screening data for SB-1 through SB-4 are provided on the boring logs in Appendix B.

Discrete soil samples were collected from the soil cores and hand auger borings. Non-dedicated sampling equipment was decontaminated prior to its initial use and before each sample was collected. Soil samples were collected for laboratory analysis based on field observations of the potential presence of hydrocarbons and PID readings as follows:

- Ten soil samples and one duplicate sample were collected for laboratory analysis from SB-1. These samples were collected at roughly 10 foot intervals from a depth of 20 feet to a depth of 90 feet bgs. A sample from 75-77' bgs, just above a clay layer encountered at 80 feet bgs, was collected in lieu of the 70-72' sample. The duplicate sample (Duplicate-1) was also collected from the 75-77' depth interval. The last three samples were collected on 5 foot intervals, from 90-92', 95-97', and 100-102' bgs. Samples were not collected from the top 20 feet of soil, since those data had already been obtained from the adjacent TP-3.
- Eight soil samples were collected for laboratory analysis from SB-2. These samples were collected on 20 foot intervals from the ground surface to the 80-82' depth interval. The last three samples were collected on 5 foot intervals, from 90-92', 95-97', and 100-102' bgs.
- Eleven soil samples and one duplicate sample were collected for laboratory analysis from SB-3. These samples were collected from the surface, and then at roughly 10 foot intervals from 20-22' bgs to 80-82' bgs. Based on field measurements, the depth of this boring was increased to 112 feet bgs. The last three samples were collected on 5 foot intervals, from 100-102', 105-107', and 110-112' bgs. Duplicate 2 was also collected from the 105-107' depth interval.
- Twelve soil samples and one duplicate sample were collected for laboratory analysis from SB-4. These samples were collected at roughly 10 foot intervals from the ground surface to the 50-52' depth interval. Samples were also collected from 65-67' (Duplicate-3 was

also collected from this interval); 75-77' (in a clay layer encountered at a depth of 70 feet bgs); and 80-82' (beneath the clay layer). The last three samples were collected on 5 foot intervals, from 90-92', 95-97', and 100-102' bgs.

- One soil sample was collected for laboratory analysis from each of the hand auger borings.

Following investigation and soil sampling activities, all of the borings were backfilled with hydrated bentonite. Photographs of the Site and sampling activities are provided in Appendix A. Boring Logs are presented in Appendix B.

4.5.2 Soil Sample Analytical Results

Laboratory analytical results for each soil sample were compared to the NMOCD Closure Criteria for sites where groundwater is deeper than 100 feet bgs. The following summarizes exceedances of the applicable NMOCD Closure Criteria:

- Benzene was not detected above the Closure Criterion of 10 milligrams per kilogram (mg/kg) in any soil sample. Total BTEX was detected above the Closure Criterion of 50 mg/kg in soil samples collected from soil boring SB-4 and test pits TP-1, TP-3, TP-4a, TP-4b, and TP-5.
    - The vertical extent of total BTEX concentrations that exceed Closure Criteria were delineated in test pits TP-1 and TP-4b, and soil boring SB-4. Total BTEX concentrations that exceed Closure Criteria in TP-3 were vertically delineated at a depth of 20 feet bgs by data from nearby SB-1. Due to the proximity of test pit TP-4a to soil boring SB-1, the Total BTEX concentrations above Closure Criteria in test pit TP-4a were also vertically delineated at 20 feet bgs by the data from SB-1. Finally, the Total BTEX concentrations above Closure Criteria in TP-5 were vertically delineated at a depth of 30 feet bgs by data from nearby SB-4.
    - The lateral extent of Total BTEX concentrations above the Closure Criterion was laterally delineated in surface soil in all four cardinal directions by data from the four hand auger borings (HA-North, HA-East, HA-South, and HA-West). The lateral extent of Total BTEX at depth was delineated to the west and northeast, but not to the south.
- The sum of TPH gasoline range organics (GRO), diesel range organics (DRO), and motor oil range organics (MRO) (i.e., total TPH) was detected above the Closure Criterion of 2,500 mg/kg in all seven test pits that were sampled in the initial investigation, in all 4 of the air rotary borings, and in one of the four hand auger borings.
    - The vertical extent of total TPH concentrations above the Closure Criterion was delineated in test pits TP-1, TP-2, and TP-4c. It was also vertically delineated in SB-1 at a depth of 80 feet, SB-2 at a depth of 20 feet, SB-3 at a depth of 70 feet, and SB-4 at a depth of 80 feet.
    - Total TPH concentrations that exceed Closure Criteria in TP-3 were vertically delineated at a depth of 80 feet bgs by data from nearby SB-1. Due to the proximity

of test pits TP-4a and TP-4b to soil boring SB-1, the Total TPH concentrations above Closure Criteria in test pits TP-4a and TP-4b were also vertically delineated at 80 feet bgs by the data from SB-1. Finally, the Total TPH concentrations above Closure Criteria in TP-5 were vertically delineated at a depth of 80 feet bgs by data from nearby SB-4.

  - The lateral extent of TPH above Closure Criteria in the top 4 feet of soil was delineated to the west, south, and east, but not to the north. In addition, the lateral extent of TPH at depth was delineated to the west, but not to the south or northeast.

- The sum of TPH GRO and DRO (i.e., TPH GRO+DRO) was detected above the Closure Criterion of 1,000 mg/kg in samples collected from test pits TP-1, TP-2, TP-3, TP-4a, TP-4b, and TP-5. It was also reported above Closure Criteria in all 4 of the air rotary borings, and in one of the four hand auger borings
  - The vertical extent of TPH GRO+DRO concentrations above the Closure Criterion was vertically delineated in test pits TP-1 and TP-2. It was also vertically delineated in SB-1 at a depth of 80 feet, SB-2 at a depth of 20 feet, SB-3 at a depth of 70 feet, and SB-4 at a depth of 80 feet.
  - TPH GRO+DRO concentrations that exceed Closure Criteria in TP-3 were vertically delineated at a depth of 80 feet bgs by data from nearby SB-1. Due to the proximity of test pits TP-4a and TP-4b to soil boring SB-1, the TPH GRO+DRO concentrations above Closure Criteria in test pits TP-4a and TP-4b were also vertically delineated at 80 feet bgs by the data from SB-1. Finally, the TPH GRO+DRO concentrations above Closure Criteria in TP-5 were vertically delineated at a depth of 80 feet bgs by data from nearby SB-4.
  - The lateral extent of TPH GRO+DRO above Closure Criteria in the top 4 feet of soil was delineated to the west, south, and east, but not to the north. In addition, the lateral extent of TPH GRO+DRO at depth was delineated to the west, but not to the south or northeast.
- Chloride was not detected in any soil sample above the Closure Criterion of 20,000 mg/kg. To date, chloride concentrations reported in soil from the Site have ranged from <4.91 mg/kg to 3,850 mg/kg.

In summary, TPH and BTEX concentrations have been vertically delineated but not laterally delineated, except to the west, to the Closure Criteria in soil beneath the Site. Chloride and benzene do not exceed the Closure Criteria in soil beneath the Site. The soil sample analytical data and Closure Criteria are presented in Table 2. The laboratory analytical reports are attached as Appendix C.

4.5.3 Laboratory Analytical Data Quality Assurance/Quality Control Results

Data reported in work orders HS20110868, HS20110870, and HS20120540 generated by ALS Laboratory in Houston, Texas, were reviewed to ensure that reported analytical results meet data quality objectives. An anomalous result was reported in data package HS20120540. The TPH

GRO concentration reported in sample SB-4 (20-22') was 11,000 mg/kg, a value approximately twice as large as the combined sum of the DRO + MRO portions of the TPH. Since this result did not fit the TPH profile (GRO less than DRO and MRO) of other results reported for the Site, TRC researched the validity of this data point. ALS Laboratory re-extracted and reanalyzed the sample on December 29, 2020 (7 days out of hold). The GRO concentration reported in the reanalyzed sample was 1,800 mg/kg, which is within the range and TPH profile (GRO less than DRO and MRO) of other reported concentrations at the Site and appears to be more representative of the TPH data found elsewhere at the Site. ALS reviewed the documentation from the initial analysis of SB-4 (20-22') and could not find any issues with the analysis. At TRC's request both data points are reported in HS20120540. The concentration of 1,800 mg/kg for TPH GRO concentration in sample SB-4 (20-22') is used for site evaluation.

Other than the issue with SB-4 (20-22') discussed above, it was determined by quality control data associated with analytical results that reported concentrations of target analytes were defensible and that measurement data reliability is within the expected limits of sampling and analytical error. The analytical results are usable for characterization and delineation at the Site.

5.0 CONCLUSIONS AND RECOMMENDATIONS

The following conclusions are based on the results of the January and November 2020 investigations:

- The applicable NMOCD Closure Criteria for this site are those for sites where groundwater is deeper than 100 feet.
- TPH and Total BTEX concentrations above the Closure Criteria have been vertically delineated but not laterally delineated, except to the west, in soil beneath the Site.
- Chloride and benzene concentrations do not exceed the Closure Criteria in soil beneath the Site.

Based on the above conclusions, it is recommended that additional investigation be conducted with the following objectives:

- Delineate the lateral extent of TPH in the top 4 feet of soil and deeper soil to the north
- Delineate the lateral extent of Total BTEX and TPH in deeper soil to the south
- Evaluate the extent of benzene, Total BTEX and TPH in soil to the east

TRC proposes to install three additional air rotary borings at the Site. The proposed boring locations are depicted on Figure 7.

Air rotary borings using the same sampling regime (collecting one 2-foot split spoon at 5 foot intervals) will be drilled to the south, east, and north of the former Tank 970 footprint in the

approximate locations shown on Figure 7. The total depth of the borings will be 82 feet bgs but may be deeper based on field observations and screening.

- The intent of the boring to the north will be to laterally delineate TPH in surface soil and at depth; soil samples will be collected from the top 4 feet of soil (0-2 feet bgs) and at depth. Targeted soil samples at depth will be collected from 20 to 82 feet bgs.
- The intent of the boring to the east will be to evaluate Total BTEX and TPH at depth – surface soil samples will not be collected from this point based on no exceedances at boring HA-East. Targeted soil samples will be collected from 20 to 82 feet bgs.
- The intent of the boring to the south will be to laterally delineate Total BTEX at an approximate depth of 20 feet bgs and TPH at approximate depths of 20, 50, and 75 feet bgs. Because surface impacts have been delineated by data from boring HA-South, surface soil samples will not be collected from this point.

In addition to the preplanned drilling and soil samples discussed above, boring depths and soil sample intervals selected for laboratory analysis will also be determined based on field observations of potential impact, including hydrocarbon odor, staining, and PID readings.

The investigation results will be documented in a revised Site Characterization Report and Remediation Plan that will be prepared in accordance with 19.15.29 NMAC for submittal to the NMOCD. The revised Site Characterization Report and Remediation Plan will be submitted within 150 days of approval of this proposed workplan.

TABLES

TABLE 1
SUMMARY OF FIELD OBSERVATIONS AND MEASUREMENTS
FIELD WORK - JANUARY 22, 2020
FORMER TANK 970 / ARTESIA STATION WEST, EDDY COUNTY, NM

Test Pit Number	Location	Depth (feet bgs)	PID Measurement (ppm)	Chloride Test Kit Measurement (ppm)	Sample Submitted to Laboratory?	Lithology	Other Observations
TP-1	Tank Footprint	0	0.3	456	Yes	Dark brown unconsolidated coarse sand. Damp, well sorted.	Stained soil.
		2	69.9	1404			Petroleum odor & staining.
		4	2854	1854			Strong petroleum odor.
		6	5000+	3000+	Yes	Light brown/tan well sorted unconsolidated sand. Harder with depth.	
		8	4630	NM			
		10	4318	NM			
		12	3371	3000+	Yes	Tan caliche.	Strong petroleum odor. Refusal at 12 feet.
TP-2	Tank Footprint	0	0.8	576	Yes	Dark brown unconsolidated coarse sand. Damp, well sorted.	Stained soil.
		2	661	300			Petroleum odor & staining.
		4	1107	408			Strong petroleum odor.
		6	782	300		Light brown/tan well sorted unconsolidated sand. Harder with depth.	
		8	1334	247			
		10	1489	164	Yes		
		12	1130	117	Yes	Tan caliche.	Strong petroleum odor. Refusal at 12 feet.
TP-3	Tank Footprint	0	1870	618	Yes	Dark brown unconsolidated coarse sand. Damp, well sorted.	Stained soil.
		2	2680	NM			Petroleum odor & staining.
		4	2099	NM			Strong petroleum odor.
		6	4500	447	Yes	Light brown/tan well sorted unconsolidated sand. Harder with depth.	
		8	2800	NM			
		10	3730	NM			
		12	4790	2472	Yes	Tan caliche.	Strong petroleum odor. Refusal at 12 feet.
TP-4a	West of Former Tank	0	7.5	136		Dark brown unconsolidated coarse sand. Damp, well sorted.	No surface staining.
		2	840	NM			Petroleum odor.
		4	1721	NM			Strong petroleum odor.
		6	4419	96	Yes	Light brown/tan well sorted unconsolidated sand. Harder with depth.	
		8	2509	NM			
		10	2267	NM			
		12	2246	64		Tan caliche.	Strong petroleum odor. Refusal at 12 feet.
TP-4b	West of Former Tank	0	9.5	NM		Dark brown unconsolidated coarse sand. Damp, well sorted.	No surface staining.
		2	1430	NM	Yes		Petroleum odor.
		4	3290	NM		Light brown/tan well sorted unconsolidated sand. Harder with depth.	Strong petroleum odor.
		6	1920	1224			
		8	5000+	NM	Yes		
		10	4400	NM	Yes	Well cemented tan caliche.	
		12	4003	NM		Tan caliche.	Strong petroleum odor. Refusal at 12 feet.

TABLE 1
SUMMARY OF FIELD OBSERVATIONS AND MEASUREMENTS
FIELD WORK - JANUARY 22, 2020
FORMER TANK 970 / ARTESIA STATION WEST, EDDY COUNTY, NM

Test Pit Number	Location	Depth (feet bgs)	PID Measurement (ppm)	Chloride Test Kit Measurement (ppm)	Sample Submitted to Laboratory?	Lithology	Other Observations
TP-4c	West of Former Tank	0	0.9	NM	Yes	Dark brown unconsolidated coarse sand. Damp, well sorted.	No surface staining.
		2	NC	NM			No odor or other significant observations.
		4	NC	NM			
		6	21.3	NM		Light brown/tan well sorted unconsolidated sand. Harder with depth.	
		8	23.3	NM			
		10	1.7	NM			
		12	1.8	NM	Yes	Tan caliche.	Refusal at 12 feet.
TP-5a	South of Former Tank	0	12.7	NM		Dark brown unconsolidated sand. Damp, well sorted.	No surface staining.
		2	142	NM			Strong petroleum odor and stained/discolored soil suggestive of a historical release.
		4	342	NM		Dark gray/black unconsolidated sand, damp. Harder with depth.	
		6	669	NM			
		8	1960	NM			
		10	1440	NM			
		12	1946	NM		Dark gray caliche.	Strong petroleum odor & staining. Refusal at 12 feet.
TP-5	South of Former Tank	0	2	NM	Yes	Dark brown unconsolidated coarse sand. Damp, well sorted.	No surface staining.
		2	1442	NM			Petroleum odor.
		4	1427	NM			
		6	1581	1503		Light brown/tan well sorted unconsolidated sand. Harder with depth.	
		8	1701	NM			
		10	1766	NM	Yes		
		11	1201	277		Tan caliche.	Petroleum odor. Refusal at 11 feet.
TP-6	East of Former Tank	0	NA	NA		Road Base	Dead utility/conduit pipe encountered at 8 inches bgs. Trenching in this location terminated at request of HEP operations.

Notes: bgs = below ground surface.
ppm = parts per million.
PID = Photo-Ionization Detector
NM = Not Measured
NA = Not Applicable

TABLE 2
SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS
FORMER TANK 970 / ARTESIA STATION WEST, EDDY COUNTY, NM

Constituent of Concern			Sample Collection Date	BTEX (mg/kg)					TPH (mg/kg)				Chloride (mg/kg)
				Benzene	Ethyl-benzene	Toluene	Xylenes	Total BTEX[2]	GRO	DRO	MRO	TPH[4]	
NMOCD Closure Criteria (GW >100' bgs)[1]				10				50[3]	1,000[5]			2,500[6]	20,000
TANK FOOTPRINT	TP-1-Surface		1/22/2020	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	0.45	43	150	193.45	1,200
	TP-1-6'		1/22/2020	0.58	23.0	6.8	56.0	86.38	1,600	7,100	5000	13,700	3,770
	TP-1-12'		1/22/2020	<0.0053	0.049	<0.0053	0.15	0.199	80.0	410	360	850	3,850
	TP-2-Surface		1/22/2020	<0.0055	0.027	<0.0055	0.073	0.1	1.4	58.0	250	309.4	16.6
	TP-2-10'		1/22/2020	<0.53	3.0	<0.53	8.7	11.7	200	1,500	1800	3,500	219
	TP-2-12'		1/22/2020	<0.0054	0.036	<0.0054	0.1	0.136	56.0	810	1200	2066	159
	TP-3-Surface		1/22/2020	<0.27	16	5.7	43	64.7	1,200	9,500	7,200	17,900	1,290
	TP-3-6'		1/22/2020	1.3	29.0	19.0	62.0	111.3	1,600	7,600	5,600	14,800	2,960
	TP-3-12'		1/22/2020	<0.28	16.0	6.0	35.0	57.0	1,300	5,200	3,900	10,400	1,670
	SB-1	20-22'	11/10/2020	<0.0048	2.0	0.13	5.8	7.93	110	1,800	1,500	3,410	3,490
		30-32'	11/10/2020	<0.0050	0.12	0.013	0.29	0.423	5.3	560	670	1,235.3	1,980
		40-42'	11/10/2020	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	0.3	71.0	77.0	148.3	1,430
		50-52'	11/10/2020	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	0.56	170	150	320.56	792
		60-62'	11/10/2020	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	1.3	100	130	231.3	619
		75-77'	11/10/2020	0.054	7.8	1.3	21.0	30.154	82	4,100	2,600	6,782	440
		Duplicate-1 (75-77')	11/10/2020	4.1	8.4	2.8	21.0	36.3	1,200	1,600	990	3,790	788
		80-82'	11/11/2020	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.054	<1.7	5.9	5.9	24.0
		90-92'	11/11/2020	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.05	54.0	62.0	116	290
		95-97'	11/11/2020	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	0.057	79	110	189.057	200
		100-102'	11/11/2020	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.049	37.0	46.0	83.0	219

TABLE 2
SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS
FORMER TANK 970 / ARTESIA STATION WEST, EDDY COUNTY, NM

Constituent of Concern				Sample Collection Date	BTEX (mg/kg)					TPH (mg/kg)				Chloride (mg/kg)
					Benzene	Ethyl-benzene	Toluene	Xylenes	Total BTEX[2]	GRO	DRO	MRO	TPH[4]	
NMOCD Closure Criteria (GW >100' bgs)[1]					10				50[3]	1,000[5]			2,500[6]	20,000
LATERAL DELINEATION	North	Test Pit		N/A	No test pit installed to north due to obstructions and utilities.									
		SB-3	0-2'	11/12/2020	**0.013**	**0.6**	<0.24	**1.8**	**2.413**	**9.2**	**3,900**	**4,700**	**8,609.2**	**64.1**
			20-22'	11/12/2020	<0.039	**1.5**	**0.4**	**4.4**	**6.3**	**41.0**	**3,000**	**1,900**	**4,941**	**6.16**
			30-32'	11/12/2020	<0.044	**5.2**	**1.3**	**13**	**19.5**	**1,100**	**2,000**	**1,200**	**4,300**	**11.0**
			40-42'	11/12/2020	<0.046	**2.5**	**0.77**	**6.8**	**10.07**	**120**	**2,900**	**1,900**	**4,920**	**13.0**
			50-52'	11/12/2020	<0.038	**4.8**	**1.1**	**12.0**	**17.9**	**800**	**2,100**	**1,200**	**4,100**	**21.3**
			60-62'	11/13/2020	<0.043	**6.5**	**1.7**	**15.0**	**23.2**	**840**	**1,400**	**880**	**3,120**	**37.7**
			70-72'	11/13/2020	<0.0050	**0.0057**	<0.0050	**0.019**	**0.0247**	**0.22**	**220**	**180**	**400.22**	**8.04**
			80-82'	11/13/2020	<0.0050	**0.014**	<0.0050	**0.048**	**0.062**	**0.76**	**350**	**270**	**620.76**	**15.2**
			100-102'	11/13/2020	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.049	**4.6**	**28.0**	**32.6**	**39.7**
			105-107'	11/13/2020	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.052	<1.7	**8.0**	**8.0**	**56.4**
			Duplicate-2 (105-107')	11/13/2020	<0.0051	<0.0051	<0.0051	**0.0059**	**0.0059**	<0.054	**6.3**	**11.0**	**17.3**	**46.4**
			110-112'	11/13/2020	<0.0048	<0.0048	<0.0048	**0.0059**	**0.0059**	**0.064**	**60.0**	**14.0**	**74.064**	**28.7**
		HA-North 0-2'		11/13/2020	**0.0093**	**0.13**	**0.039**	**0.31**	**0.4883**	**31.0**	**6,300**	**5,000**	**11,331**	**358**
	East	TP-6		1/22/2020	Test pit installed to east terminated at 8 inches deep due to underground utilities. No sample collected.									
		HA-East 0-1'		11/13/2020	<0.0048	**0.027**	**0.03**	**0.055**	**0.112**	**0.06**	**58.0**	**250**	**308.06**	**42.2**

TABLE 2
SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS
FORMER TANK 970 / ARTESIA STATION WEST, EDDY COUNTY, NM

Constituent of Concern			Sample Collection Date	BTEX (mg/kg)					TPH (mg/kg)				Chloride (mg/kg)
				Benzene	Ethyl-benzene	Toluene	Xylenes	Total BTEX[2]	GRO	DRO	MRO	TPH[4]	
NMOCD Closure Criteria (GW >100' bgs)[1]				10				50[3]	1,000[5]			2,500[6]	20,000
LATERAL DELINEATION	West	TP-4a-6'	1/22/2020	**0.42**	**67.0**	**3.4**	**130**	**200.82**	**450**	**8,200**	**4,200**	**12,850**	**37.6**
		TP-4b-2'	1/22/2020	**0.36**	**19.0**	**9.4**	**88.0**	**116.76**	**290**	**6,500**	**4,200**	**10,990**	**1,020**
		TP-4b-8'	1/22/2020	<0.28	**18.0**	**3.3**	**53.0**	**74.3**	**210**	**4,000**	**2,500**	**6,710**	**303**
		TP-4b-10'	1/22/2020	<0.29	**5.8**	**0.68**	**18.0**	**24.48**	**420**	**3,100**	**2,100**	**5,620**	**257**
		TP-4c-Surface	1/22/2020	<0.0057	<0.0057	<0.0057	**0.016**	**0.016**	**0.15**	**470**	**2,200**	**2,670.15**	**309**
		TP-4c-12'	1/22/2020	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.059	**70.0**	**8.5**	**78.5**	**83.0**
		SB-2 0-2'	11/11/2020	**0.13**	**0.7**	<0.043	**1.3**	**2.13**	**660**	**11,000**	**20,000**	**31,660**	**774**
		SB-2 20-22'	11/11/2020	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.049	**2.6**	**8.6**	**11.2**	**358**
		SB-2 40-42'	11/11/2020	<0.0048	**0.0075**	<0.0048	**0.021**	**0.0285**	**0.56**	**170**	**230**	**400.56**	**75.8**
		SB-2 60-62'	11/11/2020	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.051	**19.0**	**81.0**	**100**	**639**
		SB-2 80-82'	11/12/2020	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.052	**23.0**	**44.0**	**67.0**	**397**
		SB-2 90-92'	11/12/2020	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.054	**6.1**	**18.0**	**24.1**	**592**
		SB-2 95-97'	11/12/2020	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.046	**4.4**	**14.0**	**18.4**	**677**
		SB-2 100-102'	11/12/2020	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.050	**2.5**	**8.3**	**10.8**	**202**
		HA-West 0-1'	11/13/2020	**0.0052**	**0.049**	**0.059**	**0.1**	**0.2132**	**0.97**	**280**	**1,300**	**1,580.97**	**88.8**

TABLE 2
SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS
FORMER TANK 970 / ARTESIA STATION WEST, EDDY COUNTY, NM

Constituent of Concern			Sample Collection Date	BTEX (mg/kg)					TPH (mg/kg)				Chloride (mg/kg)
				Benzene	Ethyl-benzene	Toluene	Xylenes	Total BTEX[2]	GRO	DRO	MRO	TPH[4]	
NMOCD Closure Criteria (GW >100' bgs)[1]				10				50[3]	1,000[5]			2,500[6]	20,000
LATERAL DELINEATION	South	TP-5a	1/22/2020	No sample collected due to apparent historical contamination.									
		TP-5-Surface	1/22/2020	**0.0096**	**0.091**	**0.061**	**0.15**	**0.3116**	**2.0**	**940**	**3,000**	**3,942**	**1,300**
		TP-5-10'	1/22/2020	**2.3**	**58.0**	**15.0**	**120**	**195.3**	**2,000**	**6,700**	**3,900**	**12,600**	**998**
		SB-4 0-2'	12/8/2020	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	**0.18**	**420**	**1,100**	**1,520.18**	**768**
		SB-4 5-7'	12/8/2020	<1.2	**40.0**	**2.9**	**77.0**	**119.9**	**440**	**4,900**	**2,600**	**7,940**	**645**
		SB-4 20-22'	12/8/2020	<2.4	**41.0**	**28.0**	**87.0**	**156**	**1,800***	**4,900**	**2,600**	**9,300**	**158**
		SB-4 30-32'	12/8/2020	**0.048**	**0.62**	<0.042	**2.2**	**2.868**	**8.5**	**920**	**780**	**1,708.5**	**71.9**
		SB-4 40-42'	12/8/2020	**0.0077**	**0.14**	**0.028**	**0.44**	**0.6157**	**1.1**	**410**	**420**	**831.1**	**57.7**
		SB-4 50-52'	12/8/2020	<0.48	**1.6**	<0.48	**5.1**	**6.7**	**42**	**1,500**	**1,100**	**2,642**	<4.91
		SB-4 65-67'	12/8/2020	<0.0048	**0.11**	<0.043	**0.51**	**0.62**	**5.0**	**590**	**490**	**1085**	**34.6**
		SB-4 Duplicate-3 (65-67')	12/8/2020	<0.0050	**0.22**	**0.19**	**0.87**	**1.28**	**5.9**	**750**	**640**	**1,395.9**	**39.4**
		SB-4 75-77'	12/8/2020	**0.15**	**0.66**	**0.25**	**1.7**	**2.76**	**10**	**5,600**	**2,900**	**8,510**	**17.2**
		SB-4 80-82'	12/8/2020	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	**0.073**	**39.0**	**32.0**	**71.073**	**31.6**
		SB-4 90-92'	12/8/2020	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.050	**11.0**	**20.0**	**31.0**	**22.7**
		SB-4 95-97'	12/8/2020	<0.0048	**0.012**	**0.014**	**0.025**	**0.051**	<0.050	**33.0**	**6.5**	**39.5**	**15.5**
		SB-4 100-102'	12/8/2020	<0.0048	<0.0048	<0.0048	**0.059**	**0.059**	<0.050	**48.0**	**32.0**	**80.0**	**15.3**
		HA-South 0-1'	11/13/2020	<0.0048	**0.034**	**0.028**	**0.072**	**0.134**	**0.79**	**170**	**1,000**	**1,170.79**	**279**

Notes: NMOCD Closure Criteria = New Mexico Oil Conservation District Closure Criteria for a Site (varies with depth to groundwater)

[1] = Closure Criteria provided for sites with groundwater at a depth of greater than 100' bgs.
Blank cells in NMOCD Closure Criteria row indicate there is no Closure Criterion for that constituent.

BTEX = Benzene, Toluene, Ethylbenzene, and Total Xylenes by EPA Method 8260.

[2] = Total BTEX is the sum of the benzene + toluene + ethylbenzene + total xylenes concentrations.

[3] = This value is compared against the sum of the benzene + toluene + ethylbenzene + total xylenes concentrations.

TPH = Total Petroleum Hydrocarbons by EPA Method 8015.
GRO = Gasoline Range Organics.
DRO = Diesel Range Organics.
MRO = Motor Oil Range Organics.

[4] = TPH is the sum of the GRO + DRO + MRO concentrations.

[5] = This value is compared against the sum of the GRO + DRO concentrations.

[6] = This value is compared against the sum of the GRO + DRO + MRO concentrations.

TABLE 2
SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS
FORMER TANK 970 / ARTESIA STATION WEST, EDDY COUNTY, NM

Constituent of Concern	Sample Collection Date	BTEX (mg/kg)					TPH (mg/kg)				Chloride (mg/kg)
		Benzene	Ethyl-benzene	Toluene	Xylenes	Total BTEX[2]	GRO	DRO	MRO	TPH[4]	
NMOCD Closure Criteria (GW >100' bgs)[1]		10				50[3]	1,000[5]			2,500[6]	20,000

Notes (continued):

Chloride concentrations determined by EPA Method 300.0.
GW = Groundwater.
TP = Test Pit.
SB = Soil Boring.
HA = Hand Auger Boring.
' = feet.
' bgs = feet below ground suface.
Sample depth provided in sample name.
Detected concentrations reported in bold.
Orange shading represents concentration above NMOCD Closure Criteria for sites with groundwater at depths greater than 100 feet.
* = The initial reported concentration for this analyte (TPH GRO) was 11,000 mg/kg, when reanalyzed out of hold the concentration was reported at 1,800 mg/kg. Lower value reported in table because 11,000 mg/kg appears to be anomalous.

Appendix A:
Photograph Log

Appendix A
Photograph Log

Photo 1: View looking south-southwest of backfilled Test Pit TP-3. Test Pit TP-3 is inside the former Tank 970 footprint and is adjacent to the location of SB-1.

Photo 2: View looking southwest of SB-1. A well casing was installed in SB-1 to prevent the boring from collapsing while standing open for approximately 48 hours to confirm that groundwater was not present at the Site within 100 feet of the ground surface.

TRC Job No.	Photographs Taken By:	Page No.	Client:	Site Name & Address:	TRC
390691	Mr. Jared Stoffel 11/10-13/20 & 12/8/20	1 of 3	HEP	Tank 970 / Artesia Station West, Eddy County, NM	

Appendix A
Photograph Log

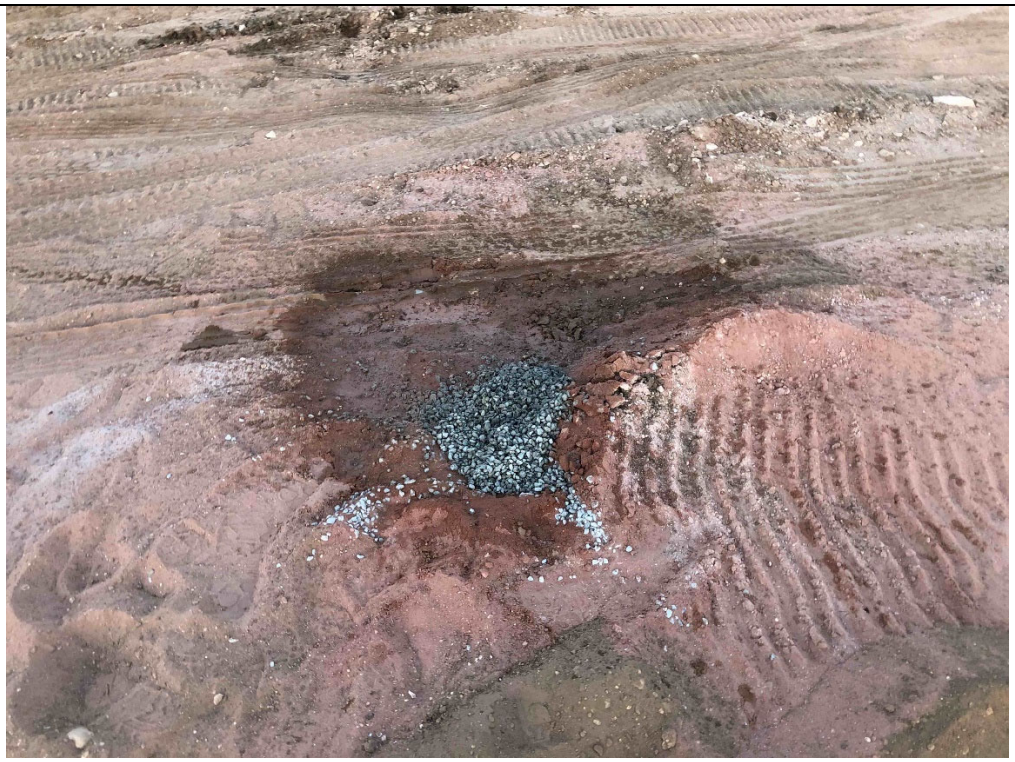


Photo 3: View facing northeast of SB-2 after it was plugged.

Photo 4: View facing northeast of SB-3 after it was plugged.

TRC Job No.	Photographs Taken By:	Page No.	Client:	Site Name & Address:	TRC
390691	Mr. Jared Stoffel 11/10-13/20 & 12/8/20	2 of 3	HEP	Tank 970 / Artesia Station West, Eddy County, NM	

Appendix A
Photograph Log

Photo 5: View facing west of SB-4 after installation was complete.

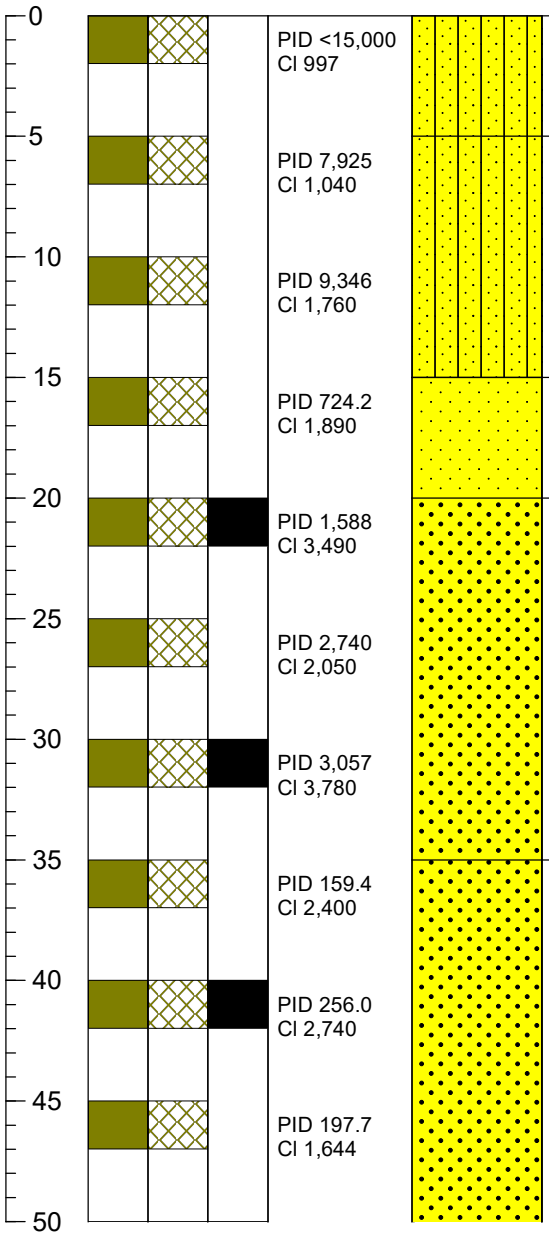
Photo 6: View facing southeast of drummed soil cuttings from SB-1, SB-2, and SB-3. The drums were stored in the southeast corner of the Artesia Station West yard (inside the facility berm).

TRC Job No.	Photographs Taken By:	Page No.	Client:	Site Name & Address:	TRC
390691	Mr. Jared Stoffel 11/10-13/20 & 12/8/20	3 of 3	HEP	Tank 970 / Artesia Station West, Eddy County, NM	

Appendix B:
Boring Logs

BORING LOG SB-1

Client: HEP	TRC Project #: 390691
Site: Tank 970/Artesia Station West	Start Date: 11/10/2020
Address: Eddy County, NM	Finish Date: 11/11/2020
Project: Site Assessment	Permit #: NA
Drilling Company: Talon LPE — Drilling Crew: Devin Londagin & crew	TRC Site Rep.: Jared Stoffel
Drilling Method: Air Rotary	TRC Reviewer: Richard Varnell
Boring Diameter (in): 6.25 — Boring Depth (ft bgs): 102	Coord. Sys.: UTM
Sampling Method: Split-spoon	Easting: 588111.6
Blow Count Method: NA — Grout: None	Northing: 625379.8
Field Screening Parameter: PID/Chloride	Elevation Datum: NA
Meter: MiniRAE 3000/Conductivity meter — Units: ppm	Ground Elevation (ft): Not measured



Lithologic Description

SM: Silty clayey sand, black, dry, strong hydrocarbon odor, heavy staining.

SM: Silty clayey sand, brown, dry, strong hydrocarbon odor, light staining.

Note: Samples in upper 20 ft. collected at previous sampling location (TP-3).

SP-SM: Fine sand with silt, brown, dry, no hydrocarbon odor, no staining.

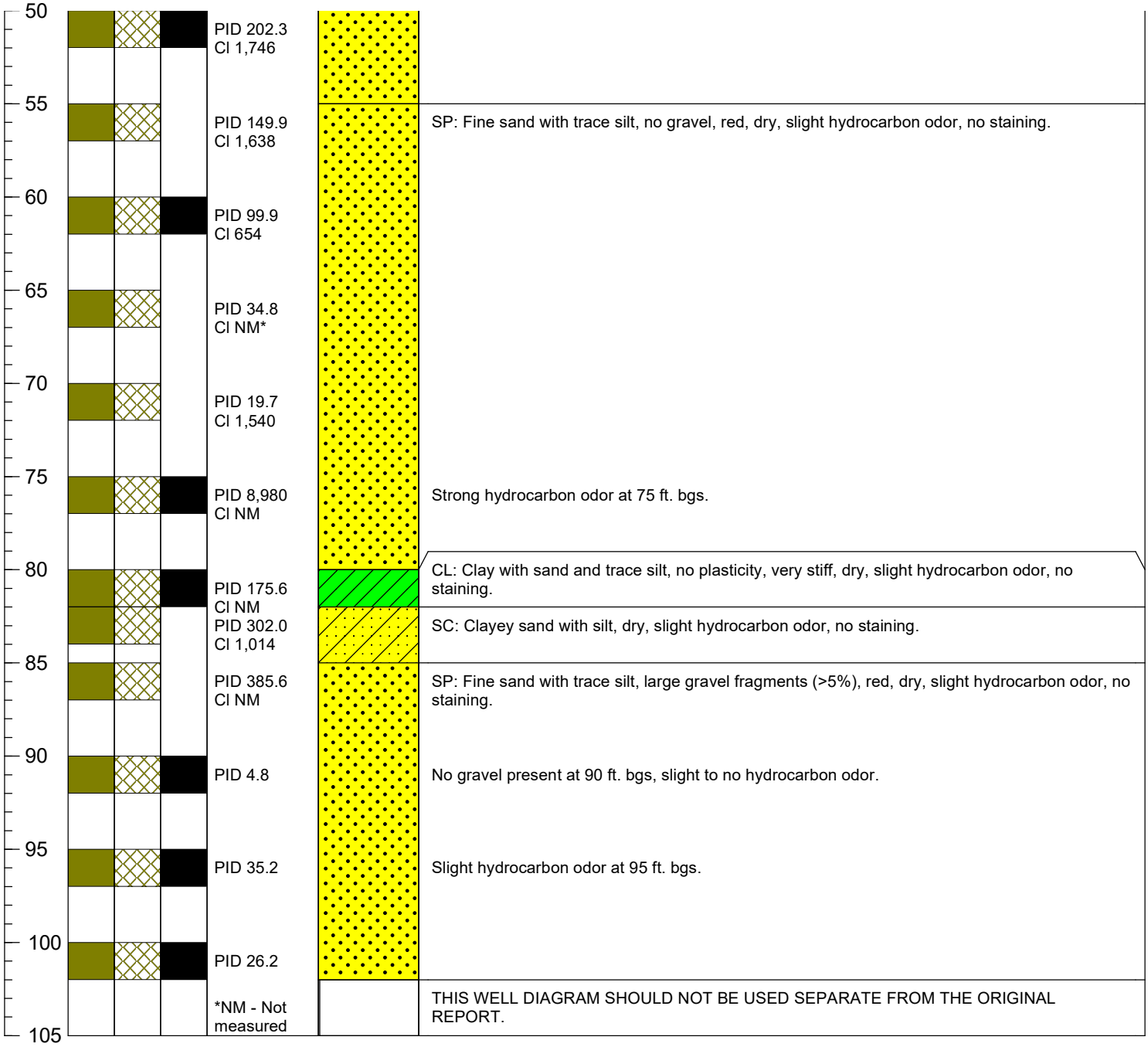
SP: Fine sand with trace silt, red, dry, strong hydrocarbon odor, no staining.

SP: Fine sand with trace silt, small rounded gravel (<5%) increasing in size with depth, red, moist, slight hydrocarbon odor, no staining.

Dry at 45 ft. below ground surface (bgs), sandstone fragments present.

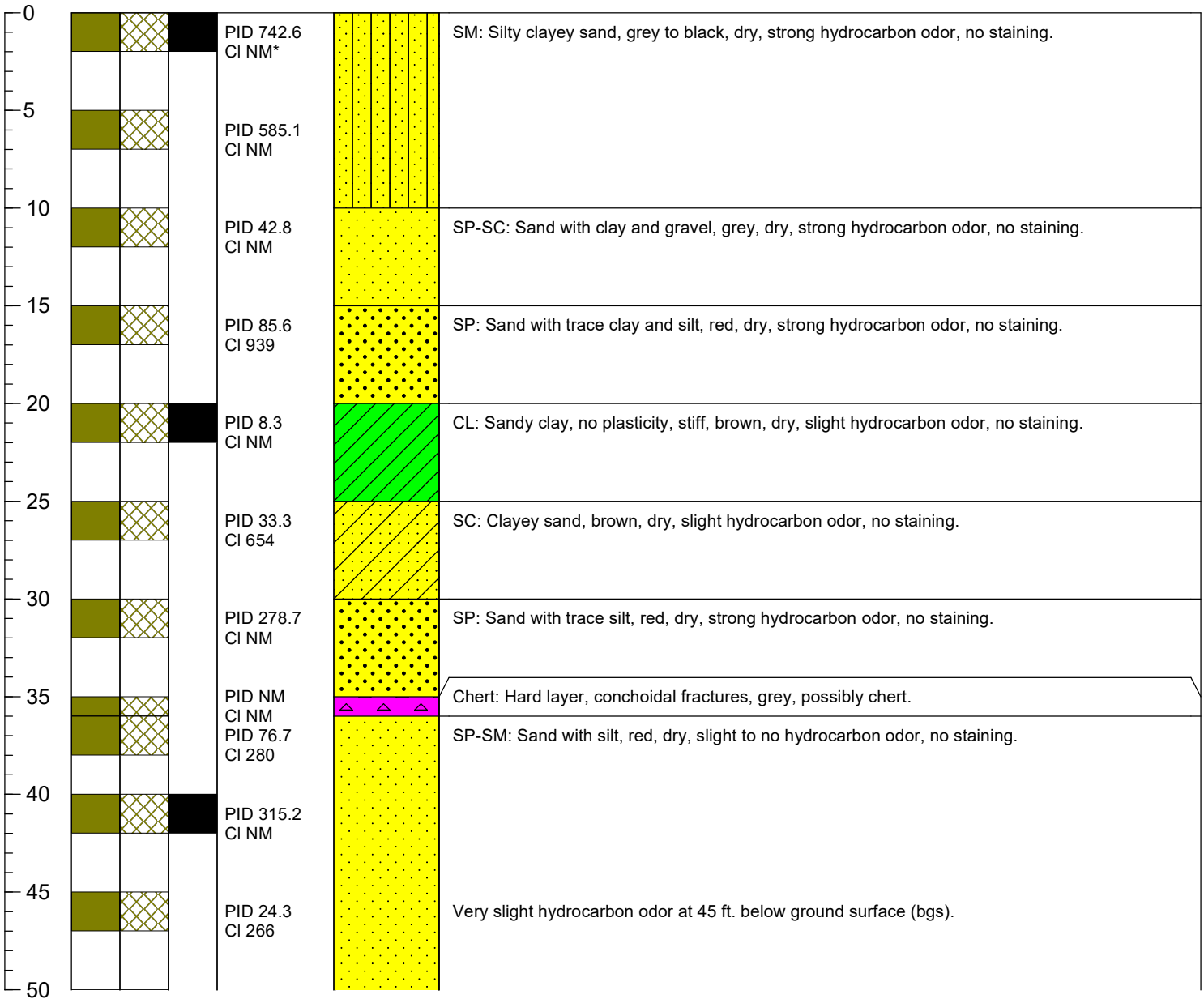
BORING LOG — SB-1

Client: HEP	Site: Tank 970/Artesia Station West	Page 2 of 2



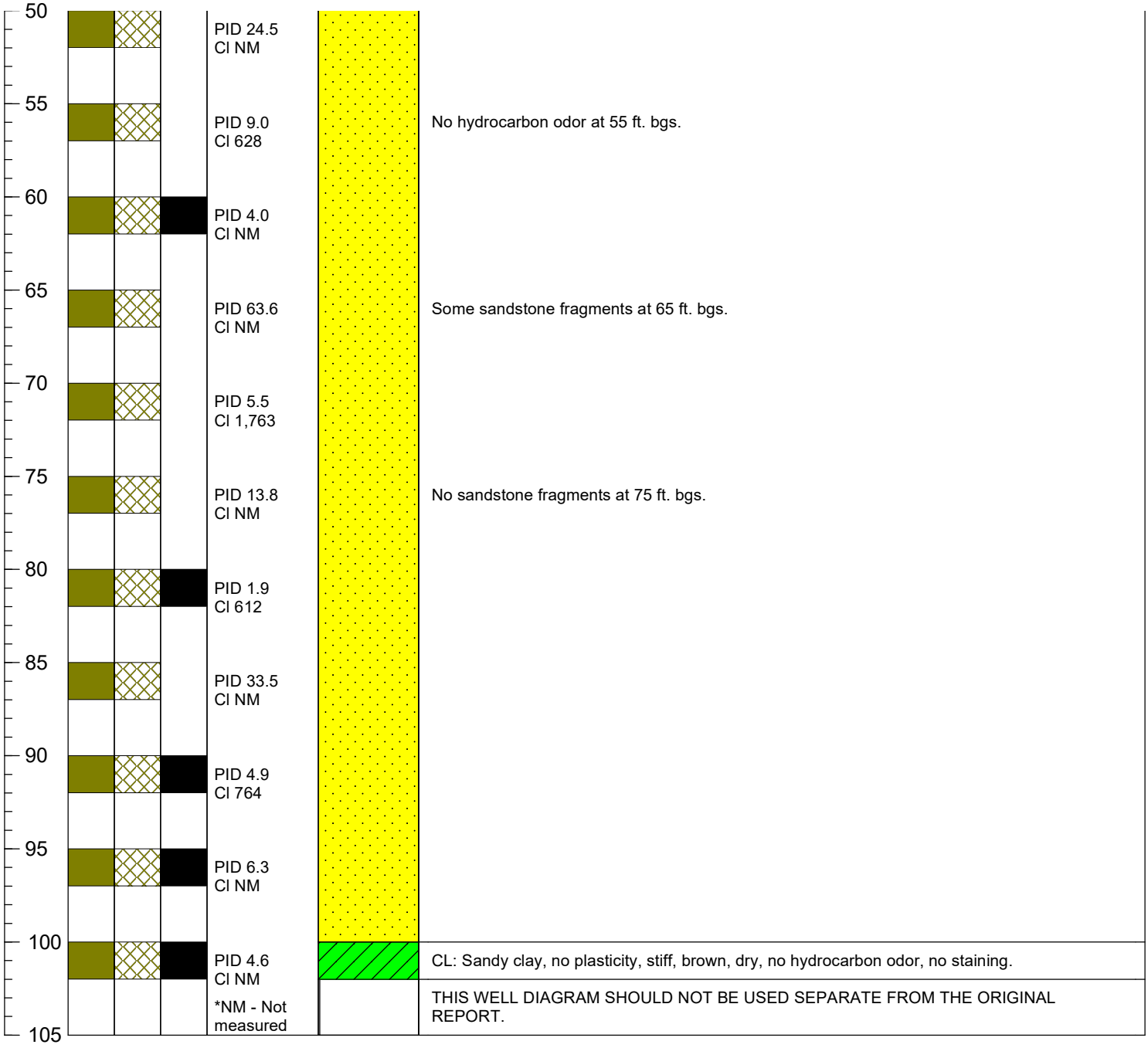
BORING LOG SB-2

Client: HEP	TRC Project #: 390691
Site: Tank 970/Artesia Station West	Start Date: 11/11/2020
Address: Eddy County, NM	Finish Date: 11/12/2020
Project: Site Assessment	Permit #: NA
Drilling Company: Talon LPE — Drilling Crew: Devin Londagin & crew	TRC Site Rep.: Jared Stoffel
Drilling Method: Air Rotary	TRC Reviewer: Richard Varnell
Boring Diameter (in): 6.25 — Boring Depth (ft bgs): 102	Coord. Sys.: UTM
Sampling Method: Split-spoon	Easting: 587961.6
Blow Count Method: NA — Grout: None	Northing: 625403.3
Field Screening Parameter: PID/Chloride	Elevation Datum: NA
Meter: MiniRAE 3000/Conductivity meter — Units: ppm	Ground Elevation (ft): Not measured



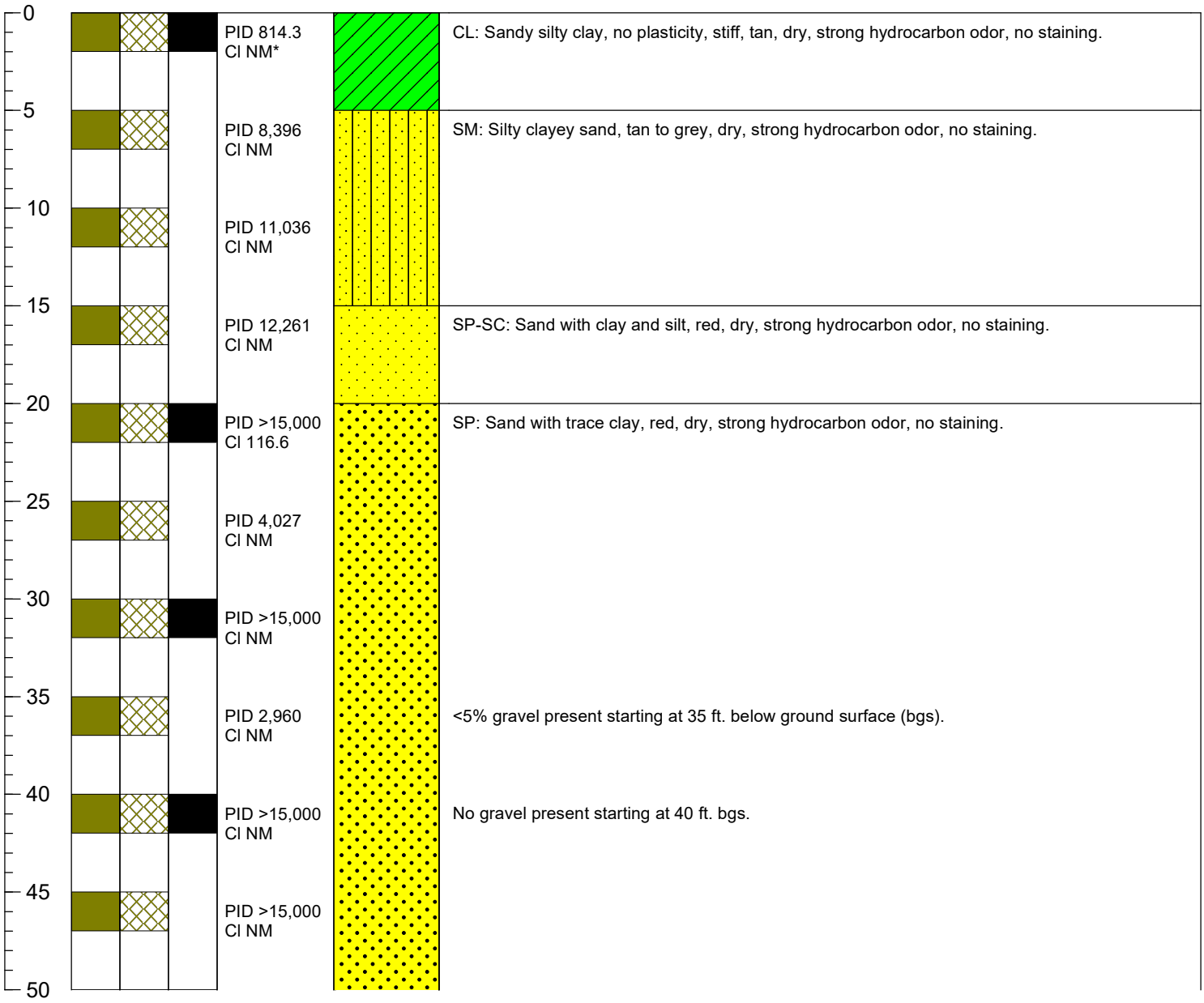
BORING LOG — SB-2

Client: HEP | Site: Tank 970/Artesia Station West | Page 2 of 2



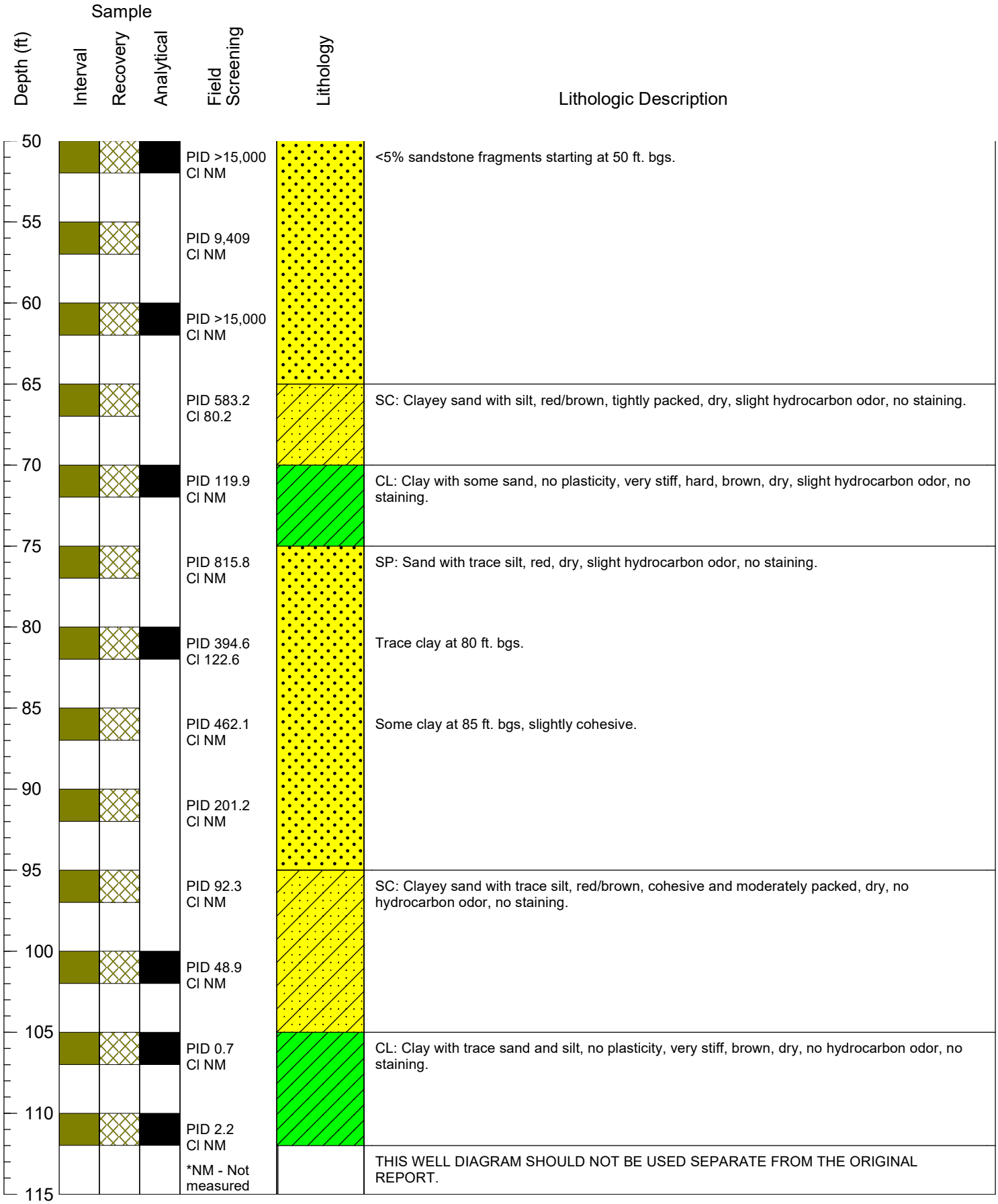
BORING LOG SB-3

Client: HEP		TRC Project #: 390691
Site: Tank 970/Artesia Station West		Start Date: 11/12/2020
Address: Eddy County, NM		Finish Date: 11/13/2020
Project: Site Assessment		Permit #: NA
Drilling Company: Talon LPE	Drilling Crew: Devin Londagin & crew	TRC Site Rep.: Jared Stoffel
Drilling Method: Air Rotary		TRC Reviewer: Richard Varnell
Boring Diameter (in): 6.25	Boring Depth (ft bgs): 112	Coord. Sys.: UTM
Sampling Method: Split-spoon		Easting: 588166.8
Blow Count Method: NA	Grout: None	Northing: 625473.5
Field Screening Parameter: PID/Chloride		Elevation Datum: NA
Meter: MiniRAE 3000/Conductivity meter	Units: ppm	Ground Elevation (ft): Not measured



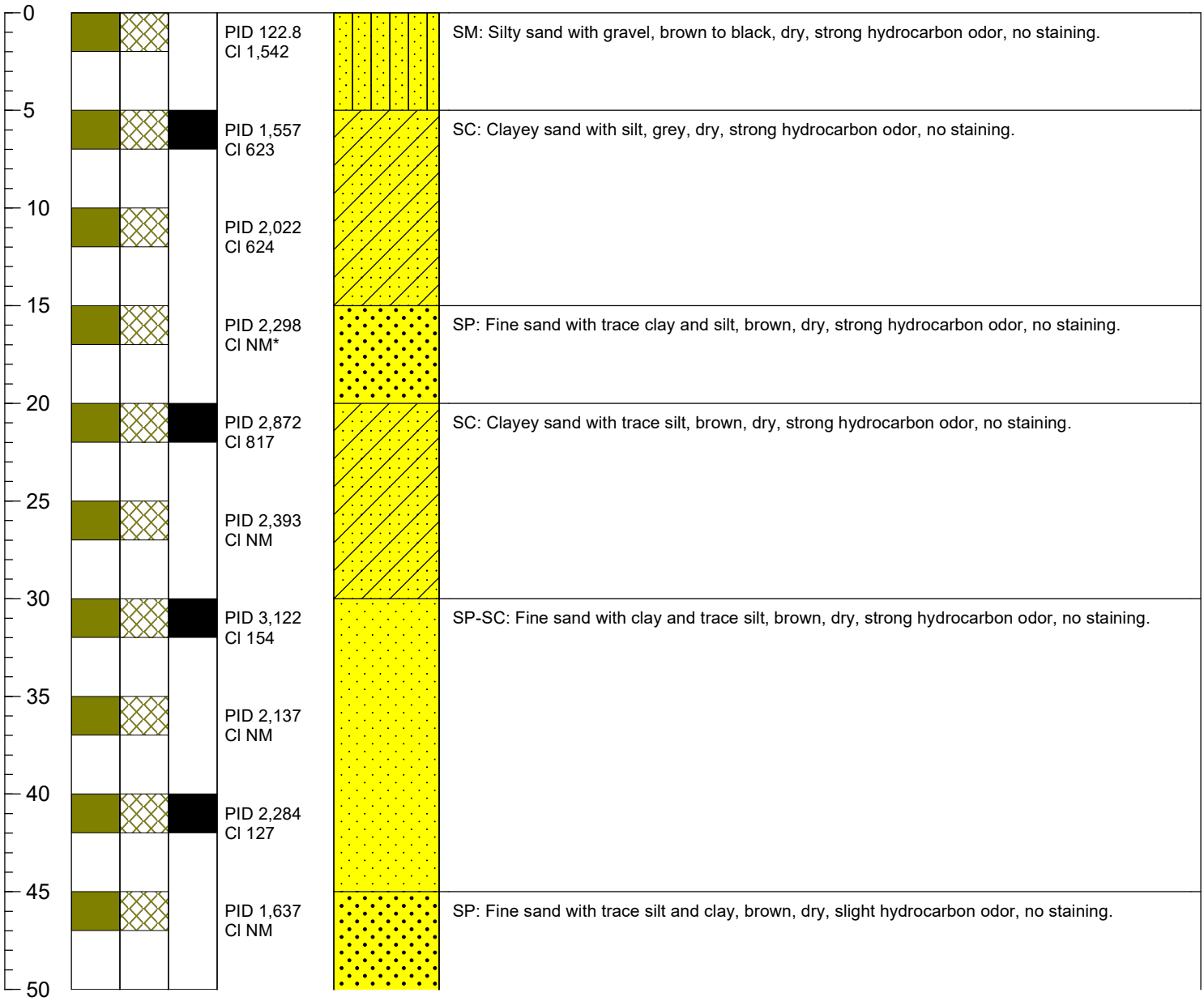
BORING LOG — SB-3

Client: HEP	Site: Tank 970/Artesia Station West	Page 2 of 2



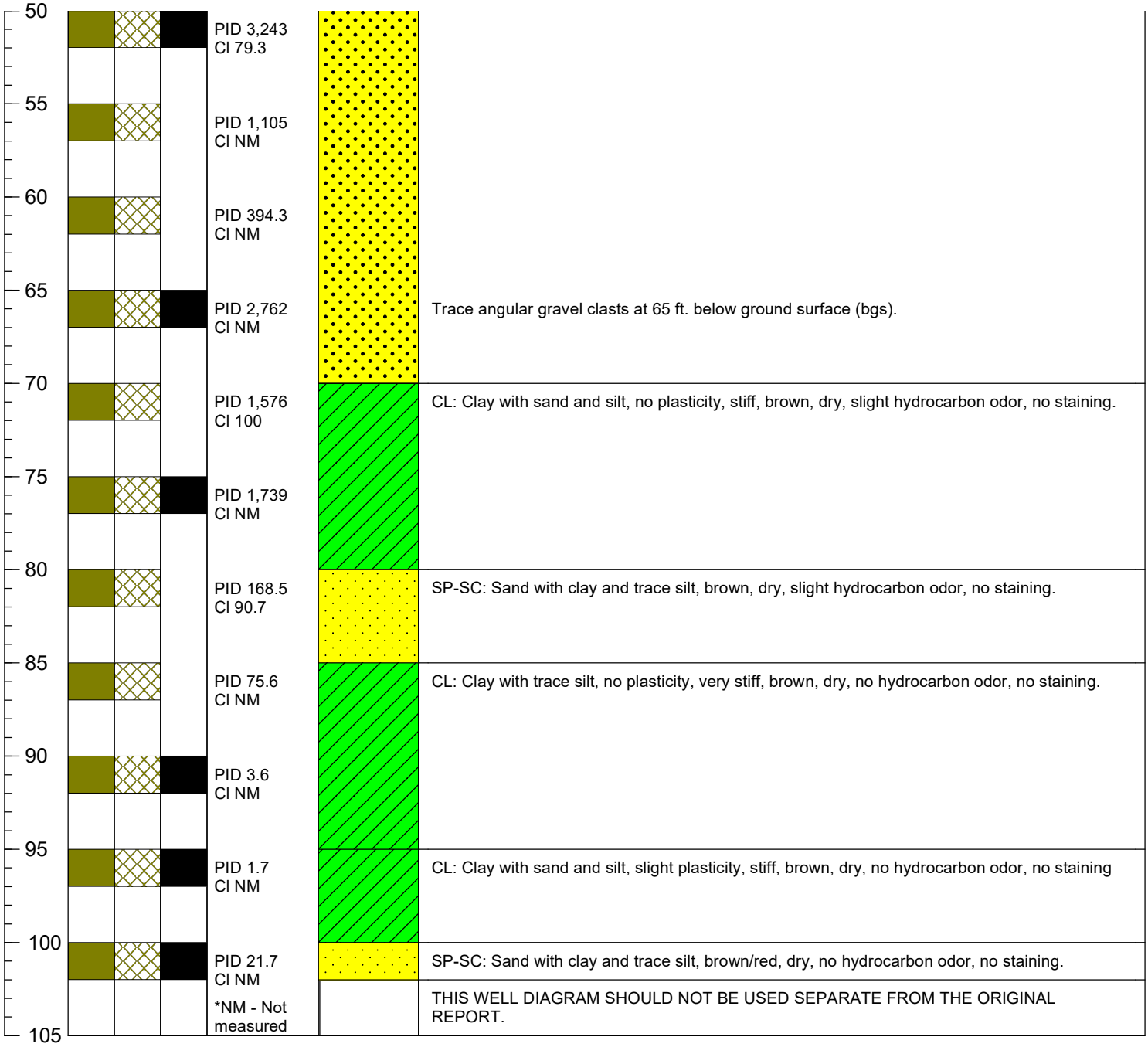
BORING LOG SB-4

Client: HEP	TRC Project #: 390691
Site: Tank 970/Artesia Station West	Start Date: 12/8/2020
Address: Eddy County, NM	Finish Date: 12/8/2020
Project: Site Assessment	Permit #: NA
Drilling Company: Talon LPE — Drilling Crew: Jose Salinas & crew	TRC Site Rep.: Jared Stoffel
Drilling Method: Air Rotary	TRC Reviewer: Richard Varnell
Boring Diameter (in): 6.25 — Boring Depth (ft bgs): 102	Coord. Sys.: UTM
Sampling Method: Split-spoon	Easting: 588117.8
Blow Count Method: NA — Grout: None	Northing: 625307.9
Field Screening Parameter: PID/Chloride	Elevation Datum: NA
Meter: MiniRAE 3000/Conductivity meter — Units: ppm	Ground Elevation (ft): Not measured



BORING LOG — SB-4

Client: HEP | Site: Tank 970/Artesia Station West | Page 2 of 2



Appendix C:
Laboratory Analytical Reports

Analytical Data Review Checklist

Site: Tank 970 / Artesia Station West Location: Depco Road, Eddy County, NM Client Name: HEP-Operating, LP Project #: 390691	Laboratory: ALS Lab Report #: HS20110868	QA Reviewer: R Varnell Date: 12/31/2020
Analytical Method(s): EPA Methods 8015M, 8260, E300, and 3550.	Matrices Sampled: Soil, water (trip blank)	Sample Collection Date(s): 11/10-13/2020
Sampling Objective(s): Delineate impacted media		
Sample IDs: (list IDs or attach COC): Please see attached COC.		

	Review Item or Question	Y	N	NA	Comments[1]
Sample Traceability / Chain of Custody					
1	Were COC forms appropriately completed?		X		Incorrect dates were provided for "HA-xxx" series samples and the trip blank. Samples were collected on 11/13/20, not 12/13/20.
2	Did the laboratory report correct sample IDs?	X			
3	Do the laboratory reported sample collection dates and times agree with the COC forms?		X		No, see above. Also, time reported for SB-1 (30-32') differed between label and COC.
Sample Preservation and Integrity					
4	Did samples arrive at the laboratory appropriately preserved?	X			EnCore sample collection not required.
	Was the cooler temperature between 0-6°C?	X			
	Was acid used for preservation when required (e.g., aqueous VOC and metals samples)?			X	
	Were soil/sediment VOC samples preserved in the field or collected in EnCore® samplers?			X	
5	Were samples received by the laboratory in an acceptable condition (i.e., no breakages, leaks, etc.)?	X			
6	Were any issues noted by the laboratory upon receipt?		X		
7	Were sample preparation and analysis holding time requirements met?	X			
8	AIR ONLY: Were canisters received with an acceptable vacuum? Were the RPDs between the initial and final canister flow controller calibrations <20?			X	
Data Completeness					
9	Are results reported for all analytical methods requested?	X			
10	Are results reported for all samples submitted for analysis?	X			
11	Were the requested analytical methods used?	X			
12	Are results reported for all target analytes, but no additional analytes?	X			
13	Were soil/sediment results reported on a dry weight basis?	X			

Analytical Data Review Checklist

	Review Item or Question	Y	N	NA	Comments[1]
14	If requested, were detected results below the reporting limit (i.e., "J" values) reported?	X			
15	Did we receive the required deliverables (e.g., EDD, Level 4 data, laboratory certification, etc.) in the correct formats?	X			
Sensitivity					
16	Do the reporting limits meet the project specifications (e.g., QAPP or Work Plan)?	X			
17	Were dilutions performed? If so, note sample(s) and parameter(s) affected and the dilution factor(s).	X			Dilutions on multiple samples due to high contaminant concentrations.
18	Did the laboratory provide an adequate explanation as to why dilutions were performed?	X			High Contaminant Concentration.
QC Results					
19	Were any target analytes detected in the method blanks? If yes, list contaminants, concentrations detected and associated samples.		X		
20	Does each analytical or preparation batch have its own method blank?	X			
21	Were any target analytes detected in the field blank(s) (e.g., trip blanks, equipment blanks)? If yes, list contaminants, concentrations detected and associated samples (or attach field blank results).		X		
22	Are there any potential false positive results based on questions 19 and/or 21? If concentrations of contaminants in associated samples are ≤10x the blank concentration for common laboratory contaminants and ≤5x the blank concentration for other contaminants, sample result is most likely a false positive. [2] Common blank contaminants: methylene chloride, acetone, 2-butanone, phthalates.		X		
23	Are LCS/LCSD recoveries within QC limits[3]? If no, list analytes affected, the LCS/LCSD recoveries and the affected samples.	X			
24	Does each analytical or preparation batch have its own LCS?	X			
25	Are LCS/LCSD RPDs within QC limits[3]? If no, list analytes affected, the RPDs and the affected samples.	X			
26	Are MS/MSD recoveries within QC limits[3]? NOTE: If not performed on a project sample, evaluation is not required. If no, list analytes affected, the MS/MSD recoveries and the sample that was spiked.		X		MS for Batch 159892 (HS20110868-19MS) had a high Percent Recovery for DRO and MRO (382% and 529%, respectively). Recoveries were low in HS20110868-19MSD. However, recoveries of these COCs in the LCS were within specifications, so no data qualification was necessary. Note: additional MS/MSD recovery issues with other MS/MSD pairs, but none from this site, so none applicable to this data set.

Analytical Data Review Checklist

	Review Item or Question	Y	N	NA	Comments[1]
27	Are MS/MSD RPDs within QC limits[3]? NOTE: If not performed on a project sample, evaluation is not required, If no, list analytes affected, the RPDs and the sample that was spiked.	X			The RPDs for DRO and MRO in Batch 159892 (HS20110868-19MS and HS20110868-19MSD) are outside of specifications. Note: additional MS/MSD RPD issues with other MS/MSD pairs, but none from this site, so none applicable to this data set.
28	Are laboratory duplicate RPDs within QC limits[3]? NOTE: If not performed on a project sample, evaluation is not required. If no, list analytes affected, the RPDs and the sample that was prepared/analyzed in duplicate.	X			
29	Are field duplicate RPDs within QC limits? If no, list analytes affected, the RPDs and the associated samples. NOTE: Typical criteria[4] are RPD ≤50 for solid samples and RPD ≤30 for aqueous and air samples when results are >2x the reporting limit; otherwise these criteria are doubled. However, project-specific or regulatory-based criteria may supersede these criteria.		X		RPDs for Benzene, Toluene, GRP, DRO, MRO, and chloride were all >50. Data not qualified based on good LCS and, outside of MS/MSD data for batch 159892 (2 samples – HA-East (0-1') and Duplicate-1), MS/MSD data.
30	ORGANIC ANALYSES ONLY: Are surrogate recoveries within QC limits[3]? If no, list samples, surrogate recoveries and analytes affected.		X		See lab QC sheet. Surrogate recoveries did not result in need to qualify data.
Laboratory Comments					
31	Did the case narrative describe any analytical anomalies (i.e., problems or unique occurrences)? If yes, list the comments that have potential impact to sample results (or attach case narrative and highlight the comments that have potential impact to sample results).		X		
32	Were any other potential data quality issues identified? If yes, describe issues.		X		
Do the Data Make Sense?					
33	Do any results look questionable? If yes, ASK THE LAB!		X		
34	Has the EDD been compared with the lab report?		X		EDD not used to create data tables.

(1) Comments generally need to be addressed in the TRC deliverable presenting the laboratory data but this will be dependent on project requirements.
(2) Check if local or regional criteria for blank assessments are available; these will supersede criteria in this checklist.
(3) Use QC limits in QAPP, if available. If not, use QC limits provided by laboratory in data package.
(4) EPA New England Environmental Data Review Supplement for Regional Data Review Elements and Superfund Guidance/Procedures, April 22, 2013.

COC = Chain-of-Custody
EDD = Electronic Data Deliverable
LCS/LCSD = Laboratory Control Sample / Laboratory Control Sample Duplicate
MS/MSD = Matrix Spike / Matrix Spike Duplicate
QAPP = Quality Assurance Project Plan
QC = Quality Control
RPD = Relative Percent Difference = |(A-B)/((A+B)/2)|
VOC = Volatile Organic Compounds

NOTE: After data tables are created, check that reporting limits are below the project action levels (e.g., screening criteria,

Analytical Data Review Checklist

remediation standards, etc.) and compare data with historical results, if applicable.

Additional Comments:

January 25, 2021

SUMMARY OF DATA VALIDATION RPD CALCULATIONS FOR FIELD DUPLICATES
FORMER TANK 970 / ARTESIA STATION WEST, EDDY COUNTY, NM

Boring ID	Depth Inteval	Sample Date	Constituent of Concern (COC)									
			BTEX (mg/kg)					TPH (mg/kg)				
			Benzene	Ethyl-benzene	Toluene	Total Xylenes	Total BTEX	GRO	DRO	MRO	TPH	Chloride (mg/kg)
SB-1	Reporting Limit		0.052	0.26	0.26	0.26	NA	0.1	170	340	NA	4.95
	75-77'	11/10/2020	**0.054**	**7.8**	**1.3**	**21**	**30.154**	**82**	**4100**	**2600**	**6782**	**440**
	Duplicate-1	11/10/2020	**4.1**	**8.4**	**2.8**	**21**	**36.3**	**1200**	**1600**	**990**	**3790**	**788**
	RPD		194.80%	7.41%	73.17%	0.00%	18.50%	174.41%	87.72%	89.69%	56.60%	56.68%
SB-3	Reporting Limit		0.0048	0.0048	0.0048	0.0048	NA	0.052	1.7	3.4	NA	4.99
	105-107'	11/13/2020	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0520	<1.70	**8**	**8**	**56.4**
	Duplicate-2	11/13/2020	<0.0051	<0.0051	<0.0051	**0.0059**	**0.0059**	<0.0540	**6.3**	**11**	**17.3**	**46.4**
	RPD		6.06%	6.06%	6.06%	20.56%	20.56%	3.77%	115.00%	31.58%	73.52%	19.46%
SB-14	Reporting Limit		0.0048	0.043	0.043	0.043	NA	0.05	85	170	NA	4.91
	65-67'	12/8/2020	<0.0048	**0.11**	<0.0430	**0.51**	**0.62**	**5**	**590**	**490**	**1085**	**34.6**
	Duplicate-3	12/8/2020	<0.0050	**0.22**	**0.19**	**0.87**	**1.28**	**5.9**	**750**	**640**	**1395.9**	**39.4**
	RPD		4.08%	66.67%	126.18%	52.17%	69.47%	16.51%	23.88%	26.55%	25.06%	12.97%

Detected concentrations reported in bold.
Orange shading represents RPD outside of TRC QC limits.
Duplicate sample data provided immediately below paired assessment sample.

10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887

December 08, 2020

Richard (RD) Varnell
TRC Corporation
505 East Huntland Drive
Suite 250
Austin, TX 78752

Work Order: **HS20110868**

Laboratory Results for: **Artesia Station West**

Dear Richard (RD) Varnell,

ALS Environmental received 21 sample(s) on Nov 17, 2020 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: JUMOKE.LAWAL
RJ Modashia
Project Manager

ALS Houston, US Date: 08-Dec-20

Client: TRC Corporation
Project: Artesia Station West
Work Order: HS20110868

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS20110868-01	SB-1-20-22	Soil		10-Nov-2020 10:15	17-Nov-2020 09:40	☐
HS20110868-02	SB-1-30-32	Soil		10-Nov-2020 11:45	17-Nov-2020 09:40	☐
HS20110868-03	SB-1-40-42	Soil		10-Nov-2020 11:15	17-Nov-2020 09:40	☐
HS20110868-04	SB-1-50-52	Soil		10-Nov-2020 11:45	17-Nov-2020 09:40	☐
HS20110868-05	SB-1-60-62	Soil		10-Nov-2020 14:30	17-Nov-2020 09:40	☐
HS20110868-06	SB-1-70-72	Soil		10-Nov-2020 15:30	17-Nov-2020 09:40	☑
HS20110868-07	SB-1-75-77	Soil		10-Nov-2020 16:00	17-Nov-2020 09:40	☐
HS20110868-08	SB-1-80-82	Soil		11-Nov-2020 08:00	17-Nov-2020 09:40	☐
HS20110868-09	SB-1-90-92	Soil		11-Nov-2020 11:00	17-Nov-2020 09:40	☐
HS20110868-10	SB-1-95-97	Soil		11-Nov-2020 11:30	17-Nov-2020 09:40	☐
HS20110868-11	SB-1-100-102	Soil		11-Nov-2020 12:00	17-Nov-2020 09:40	☐
HS20110868-12	SB-2-40-42	Soil		11-Nov-2020 16:15	17-Nov-2020 09:40	☐
HS20110868-13	SB-2-60-62	Soil		12-Nov-2020 09:15	17-Nov-2020 09:40	☐
HS20110868-14	SB-3-0-2	Soil		12-Nov-2020 13:30	17-Nov-2020 09:40	☐
HS20110868-15	SB-3-20-22	Soil		12-Nov-2020 14:20	17-Nov-2020 09:40	☐
HS20110868-16	HA-North-0-2	Soil		13-Nov-2020 15:15	17-Nov-2020 09:40	☐
HS20110868-17	HA-West-0-1	Soil		13-Nov-2020 15:25	17-Nov-2020 09:40	☐
HS20110868-18	HA-South-0-1	Soil		13-Nov-2020 15:35	17-Nov-2020 09:40	☐
HS20110868-19	HA-East-0-1	Soil		13-Nov-2020 15:45	17-Nov-2020 09:40	☐
HS20110868-20	TB-11132020-2	Water	CG-100620-95	13-Nov-2020 17:00	17-Nov-2020 09:40	☐
HS20110868-21	Duplicate-1	Soil		10-Nov-2020 00:00	17-Nov-2020 09:40	☐

ALS Houston, US Date: 08-Dec-20

Client: TRC Corporation **CASE NARRATIVE**
Project: Artesia Station West
Work Order: HS20110868

GC Semivolatiles by Method SW8015M

Batch ID: 159891

Sample ID: HA-North-0-2 (HS20110868-16)

- The surrogate recoveries could not be determined due to dilution below the calibration range.

Sample ID: HA-South-0-1 (HS20110868-18)

- The surrogate recoveries could not be determined due to dilution below the calibration range.

Sample ID: HA-West-0-1 (HS20110868-17)

- The surrogate recoveries could not be determined due to dilution below the calibration range.

Sample ID: SB-1-20-22 (HS20110868-01)

- The surrogate recoveries could not be determined due to dilution below the calibration range.

Sample ID: SB-1-30-32 (HS20110868-02)

- The surrogate recoveries could not be determined due to dilution below the calibration range.

Sample ID: SB-1-75-77 (HS20110868-07)

- The surrogate recoveries could not be determined due to dilution below the calibration range.

Sample ID: SB-3-0-2 (HS20110868-14)

- The surrogate recoveries could not be determined due to dilution below the calibration range.

Sample ID: SB-3-20-22 (HS20110868-15)

- The surrogate recoveries could not be determined due to dilution below the calibration range.

Batch ID: 159892

Sample ID: HA-East-0-1 (HS20110868-19MS)

- The MS and/or MSD recovery was outside of the control limits; however, the result in the parent sample is greater than 4x the spike amount. TPH (Motor Oil Range)
- The recovery of the Matrix Spike (MS) and the Matrix Spike Duplicate (MSD) associated to this analyte was outside of the established control limits. However, the LCS was within control limits. The failed recovery of the MS/MSD MSD may be due to sample matrix interference.TPH (Diesel Range)

Sample ID: HA-East-0-1 (HS20110868-19MSD)

- The RPD between the MS and MSD was outside of the control limit. (TPH (Diesel Range))

Sample ID: Duplicate-1 (HS20110868-21)

- The surrogate recoveries could not be determined due to dilution below the calibration range.

GC Volatiles by Method SW8015

Batch ID: R373029

Sample ID: SB-1-20-22 (HS20110868-01)

ALS Houston, US Date: 08-Dec-20

Client: TRC Corporation **CASE NARRATIVE**
Project: Artesia Station West
Work Order: HS20110868

GC Volatiles by Method SW8015

Batch ID: R373029

• Surrogate recoveries were outside of the control limits due to matrix interference.

Sample ID: SB-1-30-32 (HS20110868-02)

• Surrogate recoveries were outside of the control limits due to matrix interference.

Sample ID: SB-1-75-77 (HS20110868-07)

• Surrogate recoveries were outside of the control limits due to matrix interference.

Sample ID: SB-3-20-22 (HS20110868-15)

• Surrogate recoveries were outside of the control limits due to matrix interference.

Batch ID: R373030,R373218

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Batch ID: R373166

Sample ID: HS20110956-01MS

• MS and MSD are for an unrelated sample

GCMS Volatiles by Method SW8260

Batch ID: R373129

Sample ID: Duplicate-1 (HS20110868-21)

• Surrogate failure for HS20110868-21 confirmed by reanalysis.

Sample ID: HS20110659-07MS

• MS and MSD are for an unrelated sample

Batch ID: R373025

Sample ID: HS20110514-03MS

• MS and MSD are for an unrelated sample

Batch ID: R373157,R373160,R373496

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Batch ID: R373192

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Batch ID: R373397

Sample ID: HS20110770-09MS

• MS is for an unrelated sample

Batch ID: R373497

ALS Houston, US Date: 08-Dec-20

Client: TRC Corporation **CASE NARRATIVE**
Project: Artesia Station West
Work Order: HS20110868

GCMS Volatiles by Method SW8260

Batch ID: R373497

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method ASTM D2216

Batch ID: R373336,R373339

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method E300

Batch ID: 160056

Sample ID: HS20111195-01MS

- MS and MSD are for an unrelated sample (Chloride)

Batch ID: 160071

Sample ID: HS20110870-05MS

- MS and MSD are for an unrelated sample (Chloride)

ALS Houston, US Date: 08-Dec-20

Client: TRC Corporation
Project: Artesia Station West
Sample ID: SB-1-20-22
Collection Date: 10-Nov-2020 10:15

ANALYTICAL REPORT
WorkOrder:HS20110868
Lab ID:HS20110868-01
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		**Method:SW8260**				Analyst: WLR
Benzene	< 0.0048		0.0048	mg/Kg	1	20-Nov-2020 08:54
Ethylbenzene	**2.0**		**0.24**	**mg/Kg**	50	24-Nov-2020 16:32
Toluene	**0.13**		**0.0048**	**mg/Kg**	1	20-Nov-2020 08:54
Xylenes, Total	**5.6**		**0.24**	**mg/Kg**	50	24-Nov-2020 16:32
Surr: 1,2-Dichloroethane-d4	*83.2*		*70-126*	*%REC*	*1*	*20-Nov-2020 08:54*
Surr: 1,2-Dichloroethane-d4	*102*		*70-126*	*%REC*	*50*	*24-Nov-2020 16:32*
Surr: 4-Bromofluorobenzene	*100*		*70-130*	*%REC*	*1*	*20-Nov-2020 08:54*
Surr: 4-Bromofluorobenzene	*99.3*		*70-130*	*%REC*	*50*	*24-Nov-2020 16:32*
Surr: Dibromofluoromethane	*86.4*		*70-130*	*%REC*	*1*	*20-Nov-2020 08:54*
Surr: Dibromofluoromethane	*93.4*		*70-130*	*%REC*	*50*	*24-Nov-2020 16:32*
Surr: Toluene-d8	*107*		*70-130*	*%REC*	*1*	*20-Nov-2020 08:54*
Surr: Toluene-d8	*99.9*		*70-130*	*%REC*	*50*	*24-Nov-2020 16:32*
GASOLINE RANGE ORGANICS BY SW8015C		**Method:SW8015**				Analyst: QX
Gasoline Range Organics	**110**		**0.22**	**mg/Kg**	1	19-Nov-2020 12:09
Surr: 4-Bromofluorobenzene	*149*	*S*	*70-123*	*%REC*	*1*	*19-Nov-2020 12:09*
TPH DRO/ORO BY SW8015C		**Method:SW8015M**		Prep:SW3541 / 19-Nov-2020		Analyst: MBG
TPH (Diesel Range)	**1,800**		**170**	**mg/Kg**	100	20-Nov-2020 21:31
TPH (Motor Oil Range)	**1,500**	n	**340**	**mg/Kg**	100	20-Nov-2020 21:31
Surr: 2-Fluorobiphenyl	*0*	*JS*	*60-129*	*%REC*	*100*	*20-Nov-2020 21:31*
MOISTURE - ASTM D2216		**Method:ASTM D2216**				Analyst: DFF
Percent Moisture	**11.9**		**0.0100**	**wt%**	1	23-Nov-2020 10:16
ANIONS BY E300.0		**Method:E300**		Prep:E300 / 24-Nov-2020		Analyst: YP
Chloride	**3,490**		**99.0**	**mg/Kg**	20	26-Nov-2020 02:38

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 08-Dec-20

Client: TRC Corporation
Project: Artesia Station West
Sample ID: SB-1-30-32
Collection Date: 10-Nov-2020 11:45

ANALYTICAL REPORT
WorkOrder:HS20110868
Lab ID:HS20110868-02
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		**Method:SW8260**				Analyst: WLR
Benzene	< 0.0050		0.0050	mg/Kg	1	20-Nov-2020 09:18
Ethylbenzene	**0.12**		**0.0050**	**mg/Kg**	1	20-Nov-2020 09:18
Toluene	**0.013**		**0.0050**	**mg/Kg**	1	20-Nov-2020 09:18
Xylenes, Total	**0.29**		**0.0050**	**mg/Kg**	1	20-Nov-2020 09:18
Surr: 1,2-Dichloroethane-d4	*90.1*		*70-126*	*%REC*	*1*	*20-Nov-2020 09:18*
Surr: 4-Bromofluorobenzene	*97.2*		*70-130*	*%REC*	*1*	*20-Nov-2020 09:18*
Surr: Dibromofluoromethane	*90.3*		*70-130*	*%REC*	*1*	*20-Nov-2020 09:18*
Surr: Toluene-d8	*105*		*70-130*	*%REC*	*1*	*20-Nov-2020 09:18*
GASOLINE RANGE ORGANICS BY SW8015C		**Method:SW8015**				Analyst: QX
Gasoline Range Organics	**5.3**		**0.054**	**mg/Kg**	1	19-Nov-2020 11:21
Surr: 4-Bromofluorobenzene	*132*	*S*	*70-123*	*%REC*	*1*	*19-Nov-2020 11:21*
TPH DRO/ORO BY SW8015C		**Method:SW8015M**		Prep:SW3541 / 19-Nov-2020		Analyst: MBG
TPH (Diesel Range)	**560**		**170**	**mg/Kg**	100	20-Nov-2020 21:55
TPH (Motor Oil Range)	**670**	n	**340**	**mg/Kg**	100	20-Nov-2020 21:55
Surr: 2-Fluorobiphenyl	*0*	*JS*	*60-129*	*%REC*	*100*	*20-Nov-2020 21:55*
MOISTURE - ASTM D2216		**Method:ASTM D2216**				Analyst: DFF
Percent Moisture	**5.76**		**0.0100**	**wt%**	1	23-Nov-2020 10:16
ANIONS BY E300.0		**Method:E300**		Prep:E300 / 24-Nov-2020		Analyst: YP
Chloride	**1,980**		**99.2**	**mg/Kg**	20	26-Nov-2020 02:57

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 08-Dec-20

Client: TRC Corporation
Project: Artesia Station West
Sample ID: SB-1-40-42
Collection Date: 10-Nov-2020 11:15

ANALYTICAL REPORT
WorkOrder:HS20110868
Lab ID:HS20110868-03
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		**Method:SW8260**				Analyst: WLR
Benzene	< 0.0048		0.0048	mg/Kg	1	23-Nov-2020 12:47
Ethylbenzene	< 0.0048		0.0048	mg/Kg	1	23-Nov-2020 12:47
Toluene	< 0.0048		0.0048	mg/Kg	1	23-Nov-2020 12:47
Xylenes, Total	< 0.0048		0.0048	mg/Kg	1	23-Nov-2020 12:47
Surr: 1,2-Dichloroethane-d4	*84.6*		*70-126*	*%REC*	*1*	*23-Nov-2020 12:47*
Surr: 4-Bromofluorobenzene	*96.8*		*70-130*	*%REC*	*1*	*23-Nov-2020 12:47*
Surr: Dibromofluoromethane	*88.5*		*70-130*	*%REC*	*1*	*23-Nov-2020 12:47*
Surr: Toluene-d8	*99.8*		*70-130*	*%REC*	*1*	*23-Nov-2020 12:47*
GASOLINE RANGE ORGANICS BY SW8015C		**Method:SW8015**				Analyst: QX
Gasoline Range Organics	**0.30**		**0.050**	**mg/Kg**	1	19-Nov-2020 15:28
Surr: 4-Bromofluorobenzene	*117*		*70-123*	*%REC*	*1*	*19-Nov-2020 15:28*
TPH DRO/ORO BY SW8015C		**Method:SW8015M**		Prep:SW3541 / 19-Nov-2020		Analyst: MBG
TPH (Diesel Range)	**71**		**8.5**	**mg/Kg**	5	22-Nov-2020 14:22
TPH (Motor Oil Range)	**77**	n	**17**	**mg/Kg**	5	22-Nov-2020 14:22
Surr: 2-Fluorobiphenyl	*68.4*		*60-129*	*%REC*	*5*	*22-Nov-2020 14:22*
MOISTURE - ASTM D2216		**Method:ASTM D2216**				Analyst: DFF
Percent Moisture	**4.23**		**0.0100**	**wt%**	1	23-Nov-2020 10:16
ANIONS BY E300.0		**Method:E300**		Prep:E300 / 24-Nov-2020		Analyst: YP
Chloride	**1,430**		**99.7**	**mg/Kg**	20	26-Nov-2020 03:15

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 08-Dec-20

Client: TRC Corporation
Project: Artesia Station West
Sample ID: SB-1-50-52
Collection Date: 10-Nov-2020 11:45

ANALYTICAL REPORT
WorkOrder:HS20110868
Lab ID:HS20110868-04
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C	**Method:SW8260**					Analyst: WLR
Benzene	< 0.0049		0.0049	mg/Kg	1	23-Nov-2020 13:11
Ethylbenzene	< 0.0049		0.0049	mg/Kg	1	23-Nov-2020 13:11
Toluene	< 0.0049		0.0049	mg/Kg	1	23-Nov-2020 13:11
Xylenes, Total	< 0.0049		0.0049	mg/Kg	1	23-Nov-2020 13:11
Surr: 1,2-Dichloroethane-d4	*89.7*		*70-126*	*%REC*	*1*	*23-Nov-2020 13:11*
Surr: 4-Bromofluorobenzene	*98.4*		*70-130*	*%REC*	*1*	*23-Nov-2020 13:11*
Surr: Dibromofluoromethane	*90.8*		*70-130*	*%REC*	*1*	*23-Nov-2020 13:11*
Surr: Toluene-d8	*99.1*		*70-130*	*%REC*	*1*	*23-Nov-2020 13:11*
GASOLINE RANGE ORGANICS BY SW8015C	**Method:SW8015**					Analyst: QX
Gasoline Range Organics	**0.56**		**0.048**	**mg/Kg**	1	19-Nov-2020 11:53
Surr: 4-Bromofluorobenzene	*115*		*70-123*	*%REC*	*1*	*19-Nov-2020 11:53*
TPH DRO/ORO BY SW8015C	**Method:SW8015M**			Prep:SW3541 / 19-Nov-2020		Analyst: MBG
TPH (Diesel Range)	**170**		**17**	**mg/Kg**	10	20-Nov-2020 18:41
TPH (Motor Oil Range)	**150**	n	**34**	**mg/Kg**	10	20-Nov-2020 18:41
Surr: 2-Fluorobiphenyl	*106*		*60-129*	*%REC*	*10*	*20-Nov-2020 18:41*
MOISTURE - ASTM D2216	**Method:ASTM D2216**					Analyst: DFF
Percent Moisture	**5.76**		**0.0100**	**wt%**	1	23-Nov-2020 10:16
ANIONS BY E300.0	**Method:E300**			Prep:E300 / 24-Nov-2020		Analyst: YP
Chloride	**792**		**4.91**	**mg/Kg**	1	26-Nov-2020 03:33

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 08-Dec-20

Client: TRC Corporation
Project: Artesia Station West
Sample ID: SB-1-60-62
Collection Date: 10-Nov-2020 14:30

ANALYTICAL REPORT
WorkOrder:HS20110868
Lab ID:HS20110868-05
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C	**Method:SW8260**					Analyst: WLR
Benzene	< 0.0048		0.0048	mg/Kg	1	23-Nov-2020 13:35
Ethylbenzene	< 0.0048		0.0048	mg/Kg	1	23-Nov-2020 13:35
Toluene	< 0.0048		0.0048	mg/Kg	1	23-Nov-2020 13:35
Xylenes, Total	< 0.0048		0.0048	mg/Kg	1	23-Nov-2020 13:35
Surr: 1,2-Dichloroethane-d4	*89.9*		*70-126*	*%REC*	*1*	*23-Nov-2020 13:35*
Surr: 4-Bromofluorobenzene	*96.0*		*70-130*	*%REC*	*1*	*23-Nov-2020 13:35*
Surr: Dibromofluoromethane	*92.8*		*70-130*	*%REC*	*1*	*23-Nov-2020 13:35*
Surr: Toluene-d8	*99.2*		*70-130*	*%REC*	*1*	*23-Nov-2020 13:35*
GASOLINE RANGE ORGANICS BY SW8015C	**Method:SW8015**					Analyst: QX
Gasoline Range Organics	**1.3**		**0.050**	**mg/Kg**	1	19-Nov-2020 15:44
Surr: 4-Bromofluorobenzene	*113*		*70-123*	*%REC*	*1*	*19-Nov-2020 15:44*
TPH DRO/ORO BY SW8015C	**Method:SW8015M**			Prep:SW3541 / 19-Nov-2020		Analyst: MBG
TPH (Diesel Range)	**100**		**8.4**	**mg/Kg**	5	22-Nov-2020 14:46
TPH (Motor Oil Range)	**130**	n	**17**	**mg/Kg**	5	22-Nov-2020 14:46
Surr: 2-Fluorobiphenyl	*86.1*		*60-129*	*%REC*	*5*	*22-Nov-2020 14:46*
MOISTURE - ASTM D2216	**Method:ASTM D2216**					Analyst: DFF
Percent Moisture	**6.01**		**0.0100**	**wt%**	1	23-Nov-2020 10:16
ANIONS BY E300.0	**Method:E300**			Prep:E300 / 24-Nov-2020		Analyst: YP
Chloride	**619**		**4.95**	**mg/Kg**	1	26-Nov-2020 03:51

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 08-Dec-20

Client: TRC Corporation
Project: Artesia Station West
Sample ID: SB-1-75-77
Collection Date: 10-Nov-2020 16:00

ANALYTICAL REPORT
WorkOrder:HS20110868
Lab ID:HS20110868-07
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		**Method:SW8260**				Analyst: WLR
Benzene	**0.054**		**0.052**	**mg/Kg**	10	22-Nov-2020 21:56
Ethylbenzene	**7.8**		**0.26**	**mg/Kg**	50	24-Nov-2020 16:54
Toluene	**1.3**		**0.26**	**mg/Kg**	50	24-Nov-2020 16:54
Xylenes, Total	**21**		**0.26**	**mg/Kg**	50	24-Nov-2020 16:54
Surr: 1,2-Dichloroethane-d4	*89.0*		*70-126*	*%REC*	*10*	*22-Nov-2020 21:56*
Surr: 1,2-Dichloroethane-d4	*96.9*		*70-126*	*%REC*	*50*	*24-Nov-2020 16:54*
Surr: 4-Bromofluorobenzene	*93.4*		*70-130*	*%REC*	*10*	*22-Nov-2020 21:56*
Surr: 4-Bromofluorobenzene	*96.6*		*70-130*	*%REC*	*50*	*24-Nov-2020 16:54*
Surr: Dibromofluoromethane	*102*		*70-130*	*%REC*	*10*	*22-Nov-2020 21:56*
Surr: Dibromofluoromethane	*93.0*		*70-130*	*%REC*	*50*	*24-Nov-2020 16:54*
Surr: Toluene-d8	*120*		*70-130*	*%REC*	*10*	*22-Nov-2020 21:56*
Surr: Toluene-d8	*103*		*70-130*	*%REC*	*50*	*24-Nov-2020 16:54*
GASOLINE RANGE ORGANICS BY SW8015C		**Method:SW8015**				Analyst: QX
Gasoline Range Organics	**82**		**0.10**	**mg/Kg**	1	19-Nov-2020 12:25
Surr: 4-Bromofluorobenzene	*241*	*S*	*70-123*	*%REC*	*1*	*19-Nov-2020 12:25*
TPH DRO/ORO BY SW8015C		**Method:SW8015M**		Prep:SW3541 / 19-Nov-2020		Analyst: MBG
TPH (Diesel Range)	**4,100**		**170**	**mg/Kg**	100	20-Nov-2020 19:30
TPH (Motor Oil Range)	**2,600**	n	**340**	**mg/Kg**	100	20-Nov-2020 19:30
Surr: 2-Fluorobiphenyl	*0*	*JS*	*60-129*	*%REC*	*100*	*20-Nov-2020 19:30*
MOISTURE - ASTM D2216		**Method:ASTM D2216**				Analyst: DFF
Percent Moisture	**12.0**		**0.0100**	**wt%**	1	23-Nov-2020 10:16
ANIONS BY E300.0		**Method:E300**		Prep:E300 / 24-Nov-2020		Analyst: YP
Chloride	**440**		**4.95**	**mg/Kg**	1	26-Nov-2020 04:09

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 08-Dec-20

Client: TRC Corporation
Project: Artesia Station West
Sample ID: SB-1-80-82
Collection Date: 11-Nov-2020 08:00

ANALYTICAL REPORT
WorkOrder:HS20110868
Lab ID:HS20110868-08
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C	**Method:SW8260**					Analyst: WLR
Benzene	< 0.0049		0.0049	mg/Kg	1	22-Nov-2020 21:34
Ethylbenzene	< 0.0049		0.0049	mg/Kg	1	22-Nov-2020 21:34
Toluene	< 0.0049		0.0049	mg/Kg	1	22-Nov-2020 21:34
Xylenes, Total	< 0.0049		0.0049	mg/Kg	1	22-Nov-2020 21:34
Surr: 1,2-Dichloroethane-d4	*95.9*		*70-126*	*%REC*	*1*	*22-Nov-2020 21:34*
Surr: 4-Bromofluorobenzene	*98.9*		*70-130*	*%REC*	*1*	*22-Nov-2020 21:34*
Surr: Dibromofluoromethane	*103*		*70-130*	*%REC*	*1*	*22-Nov-2020 21:34*
Surr: Toluene-d8	*101*		*70-130*	*%REC*	*1*	*22-Nov-2020 21:34*
GASOLINE RANGE ORGANICS BY SW8015C	**Method:SW8015**					Analyst: QX
Gasoline Range Organics	< 0.054		0.054	mg/Kg	1	19-Nov-2020 16:00
Surr: 4-Bromofluorobenzene	*110*		*70-123*	*%REC*	*1*	*19-Nov-2020 16:00*
TPH DRO/ORO BY SW8015C	**Method:SW8015M**			Prep:SW3541 / 19-Nov-2020		Analyst: MBG
TPH (Diesel Range)	< 1.7		1.7	mg/Kg	1	20-Nov-2020 19:54
TPH (Motor Oil Range)	**5.9**	n	**3.4**	**mg/Kg**	1	20-Nov-2020 19:54
Surr: 2-Fluorobiphenyl	*73.9*		*60-129*	*%REC*	*1*	*20-Nov-2020 19:54*
MOISTURE - ASTM D2216	**Method:ASTM D2216**					Analyst: DFF
Percent Moisture	**14.7**		**0.0100**	**wt%**	1	23-Nov-2020 10:16
ANIONS BY E300.0	**Method:E300**			Prep:E300 / 24-Nov-2020		Analyst: YP
Chloride	**24.0**		**4.92**	**mg/Kg**	1	26-Nov-2020 04:27

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 08-Dec-20

Client: TRC Corporation
Project: Artesia Station West
Sample ID: SB-1-90-92
Collection Date: 11-Nov-2020 11:00

ANALYTICAL REPORT
WorkOrder:HS20110868
Lab ID:HS20110868-09
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C	**Method:SW8260**					Analyst: WLR
Benzene	< 0.0049		0.0049	mg/Kg	1	21-Nov-2020 05:37
Ethylbenzene	< 0.0049		0.0049	mg/Kg	1	21-Nov-2020 05:37
Toluene	< 0.0049		0.0049	mg/Kg	1	21-Nov-2020 05:37
Xylenes, Total	< 0.0049		0.0049	mg/Kg	1	21-Nov-2020 05:37
Surr: 1,2-Dichloroethane-d4	*91.0*		*70-126*	*%REC*	*1*	*21-Nov-2020 05:37*
Surr: 4-Bromofluorobenzene	*96.9*		*70-130*	*%REC*	*1*	*21-Nov-2020 05:37*
Surr: Dibromofluoromethane	*92.0*		*70-130*	*%REC*	*1*	*21-Nov-2020 05:37*
Surr: Toluene-d8	*98.1*		*70-130*	*%REC*	*1*	*21-Nov-2020 05:37*
GASOLINE RANGE ORGANICS BY SW8015C	**Method:SW8015**					Analyst: QX
Gasoline Range Organics	< 0.050		0.050	mg/Kg	1	19-Nov-2020 16:16
Surr: 4-Bromofluorobenzene	*112*		*70-123*	*%REC*	*1*	*19-Nov-2020 16:16*
TPH DRO/ORO BY SW8015C	**Method:SW8015M**			Prep:SW3541 / 19-Nov-2020		Analyst: MBG
TPH (Diesel Range)	**54**		**1.7**	**mg/Kg**	1	20-Nov-2020 20:19
TPH (Motor Oil Range)	**62**	n	**3.4**	**mg/Kg**	1	20-Nov-2020 20:19
Surr: 2-Fluorobiphenyl	*75.3*		*60-129*	*%REC*	*1*	*20-Nov-2020 20:19*
MOISTURE - ASTM D2216	**Method:ASTM D2216**					Analyst: DFF
Percent Moisture	**3.44**		**0.0100**	**wt%**	1	23-Nov-2020 10:16
ANIONS BY E300.0	**Method:E300**			Prep:E300 / 24-Nov-2020		Analyst: YP
Chloride	**290**		**4.96**	**mg/Kg**	1	26-Nov-2020 05:58

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 08-Dec-20

Client: TRC Corporation
Project: Artesia Station West
Sample ID: SB-1-95-97
Collection Date: 11-Nov-2020 11:30

ANALYTICAL REPORT
WorkOrder:HS20110868
Lab ID:HS20110868-10
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C	**Method:SW8260**					Analyst: WLR
Benzene	< 0.0047		0.0047	mg/Kg	1	21-Nov-2020 06:01
Ethylbenzene	< 0.0047		0.0047	mg/Kg	1	21-Nov-2020 06:01
Toluene	< 0.0047		0.0047	mg/Kg	1	21-Nov-2020 06:01
Xylenes, Total	< 0.0047		0.0047	mg/Kg	1	21-Nov-2020 06:01
Surr: 1,2-Dichloroethane-d4	*86.7*		*70-126*	*%REC*	*1*	*21-Nov-2020 06:01*
Surr: 4-Bromofluorobenzene	*97.0*		*70-130*	*%REC*	*1*	*21-Nov-2020 06:01*
Surr: Dibromofluoromethane	*90.3*		*70-130*	*%REC*	*1*	*21-Nov-2020 06:01*
Surr: Toluene-d8	*99.1*		*70-130*	*%REC*	*1*	*21-Nov-2020 06:01*
GASOLINE RANGE ORGANICS BY SW8015C	**Method:SW8015**					Analyst: QX
Gasoline Range Organics	**0.057**		**0.052**	**mg/Kg**	1	19-Nov-2020 16:33
Surr: 4-Bromofluorobenzene	*113*		*70-123*	*%REC*	*1*	*19-Nov-2020 16:33*
TPH DRO/ORO BY SW8015C	**Method:SW8015M**			Prep:SW3541 / 19-Nov-2020		Analyst: MBG
TPH (Diesel Range)	**79**		**8.5**	**mg/Kg**	5	22-Nov-2020 15:10
TPH (Motor Oil Range)	**110**	n	**17**	**mg/Kg**	5	22-Nov-2020 15:10
Surr: 2-Fluorobiphenyl	*98.8*		*60-129*	*%REC*	*5*	*22-Nov-2020 15:10*
MOISTURE - ASTM D2216	**Method:ASTM D2216**					Analyst: DFF
Percent Moisture	**3.53**		**0.0100**	**wt%**	1	23-Nov-2020 10:16
ANIONS BY E300.0	**Method:E300**			Prep:E300 / 24-Nov-2020		Analyst: YP
Chloride	**200**		**4.92**	**mg/Kg**	1	26-Nov-2020 06:16

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 08-Dec-20

Client: TRC Corporation
Project: Artesia Station West
Sample ID: SB-1-100-102
Collection Date: 11-Nov-2020 12:00

ANALYTICAL REPORT
WorkOrder:HS20110868
Lab ID:HS20110868-11
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C	**Method:SW8260**					Analyst: WLR
Benzene	< 0.0050		0.0050	mg/Kg	1	21-Nov-2020 06:24
Ethylbenzene	< 0.0050		0.0050	mg/Kg	1	21-Nov-2020 06:24
Toluene	< 0.0050		0.0050	mg/Kg	1	21-Nov-2020 06:24
Xylenes, Total	< 0.0050		0.0050	mg/Kg	1	21-Nov-2020 06:24
Surr: 1,2-Dichloroethane-d4	*91.3*		*70-126*	*%REC*	*1*	*21-Nov-2020 06:24*
Surr: 4-Bromofluorobenzene	*98.3*		*70-130*	*%REC*	*1*	*21-Nov-2020 06:24*
Surr: Dibromofluoromethane	*92.6*		*70-130*	*%REC*	*1*	*21-Nov-2020 06:24*
Surr: Toluene-d8	*99.5*		*70-130*	*%REC*	*1*	*21-Nov-2020 06:24*
GASOLINE RANGE ORGANICS BY SW8015C	**Method:SW8015**					Analyst: QX
Gasoline Range Organics	< 0.049		0.049	mg/Kg	1	19-Nov-2020 16:49
Surr: 4-Bromofluorobenzene	*111*		*70-123*	*%REC*	*1*	*19-Nov-2020 16:49*
TPH DRO/ORO BY SW8015C	**Method:SW8015M**			Prep:SW3541 / 19-Nov-2020		Analyst: MBG
TPH (Diesel Range)	**37**		**1.7**	**mg/Kg**	1	20-Nov-2020 21:07
TPH (Motor Oil Range)	**46**	n	**3.4**	**mg/Kg**	1	20-Nov-2020 21:07
Surr: 2-Fluorobiphenyl	*71.3*		*60-129*	*%REC*	*1*	*20-Nov-2020 21:07*
MOISTURE - ASTM D2216	**Method:ASTM D2216**					Analyst: DFF
Percent Moisture	**4.80**		**0.0100**	**wt%**	1	23-Nov-2020 10:16
ANIONS BY E300.0	**Method:E300**			Prep:E300 / 24-Nov-2020		Analyst: YP
Chloride	**219**		**5.00**	**mg/Kg**	1	26-Nov-2020 06:34

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 08-Dec-20

Client: TRC Corporation
Project: Artesia Station West
Sample ID: SB-2-40-42
Collection Date: 11-Nov-2020 16:15

ANALYTICAL REPORT
WorkOrder:HS20110868
Lab ID:HS20110868-12
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		**Method:SW8260**				Analyst: WLR
Benzene	< 0.0048		0.0048	mg/Kg	1	21-Nov-2020 06:48
Ethylbenzene	**0.0075**		**0.0048**	**mg/Kg**	1	21-Nov-2020 06:48
Toluene	< 0.0048		0.0048	mg/Kg	1	21-Nov-2020 06:48
Xylenes, Total	**0.021**		**0.0048**	**mg/Kg**	1	21-Nov-2020 06:48
Surr: 1,2-Dichloroethane-d4	*88.1*		*70-126*	*%REC*	*1*	*21-Nov-2020 06:48*
Surr: 4-Bromofluorobenzene	*97.6*		*70-130*	*%REC*	*1*	*21-Nov-2020 06:48*
Surr: Dibromofluoromethane	*91.1*		*70-130*	*%REC*	*1*	*21-Nov-2020 06:48*
Surr: Toluene-d8	*98.5*		*70-130*	*%REC*	*1*	*21-Nov-2020 06:48*
GASOLINE RANGE ORGANICS BY SW8015C		**Method:SW8015**				Analyst: QX
Gasoline Range Organics	**0.56**		**0.046**	**mg/Kg**	1	19-Nov-2020 17:05
Surr: 4-Bromofluorobenzene	*116*		*70-123*	*%REC*	*1*	*19-Nov-2020 17:05*
TPH DRO/ORO BY SW8015C		**Method:SW8015M**		Prep:SW3541 / 19-Nov-2020		Analyst: MBG
TPH (Diesel Range)	**170**		**17**	**mg/Kg**	10	22-Nov-2020 15:35
TPH (Motor Oil Range)	**230**	n	**34**	**mg/Kg**	10	22-Nov-2020 15:35
Surr: 2-Fluorobiphenyl	*111*		*60-129*	*%REC*	*10*	*22-Nov-2020 15:35*
MOISTURE - ASTM D2216		**Method:ASTM D2216**				Analyst: DFF
Percent Moisture	**5.38**		**0.0100**	**wt%**	1	23-Nov-2020 10:16
ANIONS BY E300.0		**Method:E300**		Prep:E300 / 24-Nov-2020		Analyst: YP
Chloride	**75.8**		**4.91**	**mg/Kg**	1	26-Nov-2020 06:52

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 08-Dec-20

Client: TRC Corporation
Project: Artesia Station West
Sample ID: SB-2-60-62
Collection Date: 12-Nov-2020 09:15

ANALYTICAL REPORT
WorkOrder:HS20110868
Lab ID:HS20110868-13
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C	**Method:SW8260**					Analyst: WLR
Benzene	< 0.0050		0.0050	mg/Kg	1	21-Nov-2020 07:12
Ethylbenzene	< 0.0050		0.0050	mg/Kg	1	21-Nov-2020 07:12
Toluene	< 0.0050		0.0050	mg/Kg	1	21-Nov-2020 07:12
Xylenes, Total	< 0.0050		0.0050	mg/Kg	1	21-Nov-2020 07:12
Surr: 1,2-Dichloroethane-d4	*93.6*		*70-126*	*%REC*	*1*	*21-Nov-2020 07:12*
Surr: 4-Bromofluorobenzene	*98.2*		*70-130*	*%REC*	*1*	*21-Nov-2020 07:12*
Surr: Dibromofluoromethane	*93.5*		*70-130*	*%REC*	*1*	*21-Nov-2020 07:12*
Surr: Toluene-d8	*100*		*70-130*	*%REC*	*1*	*21-Nov-2020 07:12*
GASOLINE RANGE ORGANICS BY SW8015C	**Method:SW8015**					Analyst: QX
Gasoline Range Organics	< 0.051		0.051	mg/Kg	1	19-Nov-2020 17:21
Surr: 4-Bromofluorobenzene	*114*		*70-123*	*%REC*	*1*	*19-Nov-2020 17:21*
TPH DRO/ORO BY SW8015C	**Method:SW8015M**			Prep:SW3541 / 19-Nov-2020		Analyst: MBG
TPH (Diesel Range)	**19**		**8.5**	**mg/Kg**	5	22-Nov-2020 15:59
TPH (Motor Oil Range)	**81**	n	**17**	**mg/Kg**	5	22-Nov-2020 15:59
Surr: 2-Fluorobiphenyl	*60.3*		*60-129*	*%REC*	*5*	*22-Nov-2020 15:59*
MOISTURE - ASTM D2216	**Method:ASTM D2216**					Analyst: DFF
Percent Moisture	**4.75**		**0.0100**	**wt%**	1	23-Nov-2020 10:16
ANIONS BY E300.0	**Method:E300**			Prep:E300 / 24-Nov-2020		Analyst: YP
Chloride	**639**		**4.95**	**mg/Kg**	1	26-Nov-2020 07:10

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 08-Dec-20

Client: TRC Corporation
Project: Artesia Station West
Sample ID: SB-3-0-2
Collection Date: 12-Nov-2020 13:30

ANALYTICAL REPORT
WorkOrder:HS20110868
Lab ID:HS20110868-14
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		**Method:SW8260**				Analyst: WLR
Benzene	**0.013**		**0.0049**	**mg/Kg**	1	21-Nov-2020 08:00
Ethylbenzene	**0.60**		**0.24**	**mg/Kg**	50	26-Nov-2020 16:33
Toluene	< 0.24		0.24	mg/Kg	50	26-Nov-2020 16:33
Xylenes, Total	**1.8**		**0.24**	**mg/Kg**	50	26-Nov-2020 16:33
Surr: 1,2-Dichloroethane-d4	*92.4*		*70-126*	*%REC*	*1*	*21-Nov-2020 08:00*
Surr: 1,2-Dichloroethane-d4	*88.8*		*70-126*	*%REC*	*50*	*26-Nov-2020 16:33*
Surr: 4-Bromofluorobenzene	*107*		*70-130*	*%REC*	*1*	*21-Nov-2020 08:00*
Surr: 4-Bromofluorobenzene	*92.7*		*70-130*	*%REC*	*50*	*26-Nov-2020 16:33*
Surr: Dibromofluoromethane	*93.3*		*70-130*	*%REC*	*1*	*21-Nov-2020 08:00*
Surr: Dibromofluoromethane	*87.6*		*70-130*	*%REC*	*50*	*26-Nov-2020 16:33*
Surr: Toluene-d8	*109*		*70-130*	*%REC*	*1*	*21-Nov-2020 08:00*
Surr: Toluene-d8	*100*		*70-130*	*%REC*	*50*	*26-Nov-2020 16:33*
GASOLINE RANGE ORGANICS BY SW8015C		**Method:SW8015**				Analyst: QX
Gasoline Range Organics	**9.2**		**0.049**	**mg/Kg**	1	19-Nov-2020 18:25
Surr: 4-Bromofluorobenzene	*117*		*70-123*	*%REC*	*1*	*19-Nov-2020 18:25*
TPH DRO/ORO BY SW8015C		**Method:SW8015M**		Prep:SW3541 / 19-Nov-2020		Analyst: MBG
TPH (Diesel Range)	**3,900**		**170**	**mg/Kg**	100	20-Nov-2020 22:19
TPH (Motor Oil Range)	**4,700**	n	**340**	**mg/Kg**	100	20-Nov-2020 22:19
Surr: 2-Fluorobiphenyl	*0*	*JS*	*60-129*	*%REC*	*100*	*20-Nov-2020 22:19*
MOISTURE - ASTM D2216		**Method:ASTM D2216**				Analyst: DFF
Percent Moisture	**5.63**		**0.0100**	**wt%**	1	23-Nov-2020 10:16
ANIONS BY E300.0		**Method:E300**		Prep:E300 / 24-Nov-2020		Analyst: YP
Chloride	**64.1**		**5.00**	**mg/Kg**	1	26-Nov-2020 07:28

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 08-Dec-20

Client: TRC Corporation
Project: Artesia Station West
Sample ID: SB-3-20-22
Collection Date: 12-Nov-2020 14:20

ANALYTICAL REPORT
WorkOrder:HS20110868
Lab ID:HS20110868-15
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		**Method:SW8260**				Analyst: WLR
Benzene	< 0.039		0.039	mg/Kg	10	21-Nov-2020 09:35
Ethylbenzene	**1.5**		**0.20**	**mg/Kg**	50	26-Nov-2020 16:12
Toluene	**0.40**		**0.039**	**mg/Kg**	10	21-Nov-2020 09:35
Xylenes, Total	**4.4**		**0.20**	**mg/Kg**	50	26-Nov-2020 16:12
Surr: 1,2-Dichloroethane-d4	*87.7*		*70-126*	*%REC*	*10*	*21-Nov-2020 09:35*
Surr: 1,2-Dichloroethane-d4	*87.2*		*70-126*	*%REC*	*50*	*26-Nov-2020 16:12*
Surr: 4-Bromofluorobenzene	*112*		*70-130*	*%REC*	*10*	*21-Nov-2020 09:35*
Surr: 4-Bromofluorobenzene	*114*		*70-130*	*%REC*	*50*	*26-Nov-2020 16:12*
Surr: Dibromofluoromethane	*90.2*		*70-130*	*%REC*	*10*	*21-Nov-2020 09:35*
Surr: Dibromofluoromethane	*88.8*		*70-130*	*%REC*	*50*	*26-Nov-2020 16:12*
Surr: Toluene-d8	*110*		*70-130*	*%REC*	*10*	*21-Nov-2020 09:35*
Surr: Toluene-d8	*106*		*70-130*	*%REC*	*50*	*26-Nov-2020 16:12*
GASOLINE RANGE ORGANICS BY SW8015C		**Method:SW8015**				Analyst: QX
Gasoline Range Organics	**41**		**0.056**	**mg/Kg**	1	19-Nov-2020 18:41
Surr: 4-Bromofluorobenzene	*170*	*S*	*70-123*	*%REC*	*1*	*19-Nov-2020 18:41*
TPH DRO/ORO BY SW8015C		**Method:SW8015M**		Prep:SW3541 / 19-Nov-2020		Analyst: MBG
TPH (Diesel Range)	**3,000**		**170**	**mg/Kg**	100	20-Nov-2020 23:31
TPH (Motor Oil Range)	**1,900**	n	**340**	**mg/Kg**	100	20-Nov-2020 23:31
Surr: 2-Fluorobiphenyl	*0*	*JS*	*60-129*	*%REC*	*100*	*20-Nov-2020 23:31*
MOISTURE - ASTM D2216		**Method:ASTM D2216**				Analyst: DFF
Percent Moisture	**4.82**		**0.0100**	**wt%**	1	23-Nov-2020 10:16
ANIONS BY E300.0		**Method:E300**		Prep:E300 / 24-Nov-2020		Analyst: YP
Chloride	**6.16**		**4.96**	**mg/Kg**	1	26-Nov-2020 07:47

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 08-Dec-20

Client: TRC Corporation
Project: Artesia Station West
Sample ID: HA-North-0-2
Collection Date: 13-Nov-2020 15:15

ANALYTICAL REPORT
WorkOrder:HS20110868
Lab ID:HS20110868-16
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		**Method:SW8260**				Analyst: WLR
Benzene	**0.0093**		**0.0050**	**mg/Kg**	1	21-Nov-2020 08:48
Ethylbenzene	**0.13**		**0.0050**	**mg/Kg**	1	21-Nov-2020 08:48
Toluene	**0.039**		**0.0050**	**mg/Kg**	1	21-Nov-2020 08:48
Xylenes, Total	**0.31**		**0.0050**	**mg/Kg**	1	21-Nov-2020 08:48
Surr: 1,2-Dichloroethane-d4	*88.7*		*70-126*	*%REC*	*1*	*21-Nov-2020 08:48*
Surr: 4-Bromofluorobenzene	*106*		*70-130*	*%REC*	*1*	*21-Nov-2020 08:48*
Surr: Dibromofluoromethane	*90.1*		*70-130*	*%REC*	*1*	*21-Nov-2020 08:48*
Surr: Toluene-d8	*123*		*70-130*	*%REC*	*1*	*21-Nov-2020 08:48*
GASOLINE RANGE ORGANICS BY SW8015C		**Method:SW8015**				Analyst: QX
Gasoline Range Organics	**31**		**0.053**	**mg/Kg**	1	19-Nov-2020 19:14
Surr: 4-Bromofluorobenzene	*103*		*70-123*	*%REC*	*1*	*19-Nov-2020 19:14*
TPH DRO/ORO BY SW8015C		**Method:SW8015M**		Prep:SW3541 / 19-Nov-2020		Analyst: MBG
TPH (Diesel Range)	**6,300**		**170**	**mg/Kg**	100	20-Nov-2020 23:56
TPH (Motor Oil Range)	**5,000**	n	**340**	**mg/Kg**	100	20-Nov-2020 23:56
Surr: 2-Fluorobiphenyl	*0*	*JS*	*60-129*	*%REC*	*100*	*20-Nov-2020 23:56*
MOISTURE - ASTM D2216		**Method:ASTM D2216**				Analyst: DFF
Percent Moisture	**8.04**		**0.0100**	**wt%**	1	23-Nov-2020 10:16
ANIONS BY E300.0		**Method:E300**		Prep:E300 / 24-Nov-2020		Analyst: YP
Chloride	**358**		**4.93**	**mg/Kg**	1	26-Nov-2020 08:05

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 08-Dec-20

Client: TRC Corporation
Project: Artesia Station West
Sample ID: HA-West-0-1
Collection Date: 13-Nov-2020 15:25

ANALYTICAL REPORT
WorkOrder:HS20110868
Lab ID:HS20110868-17
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		**Method:SW8260**				Analyst: WLR
Benzene	**0.0052**		**0.0046**	**mg/Kg**	1	21-Nov-2020 07:36
Ethylbenzene	**0.049**		**0.0046**	**mg/Kg**	1	21-Nov-2020 07:36
Toluene	**0.059**		**0.0046**	**mg/Kg**	1	21-Nov-2020 07:36
Xylenes, Total	**0.10**		**0.0046**	**mg/Kg**	1	21-Nov-2020 07:36
Surr: 1,2-Dichloroethane-d4	*94.9*		*70-126*	*%REC*	*1*	*21-Nov-2020 07:36*
Surr: 4-Bromofluorobenzene	*95.9*		*70-130*	*%REC*	*1*	*21-Nov-2020 07:36*
Surr: Dibromofluoromethane	*94.9*		*70-130*	*%REC*	*1*	*21-Nov-2020 07:36*
Surr: Toluene-d8	*101*		*70-130*	*%REC*	*1*	*21-Nov-2020 07:36*
GASOLINE RANGE ORGANICS BY SW8015C		**Method:SW8015**				Analyst: QX
Gasoline Range Organics	**0.97**		**0.050**	**mg/Kg**	1	20-Nov-2020 15:53
Surr: 4-Bromofluorobenzene	*118*		*70-123*	*%REC*	*1*	*20-Nov-2020 15:53*
TPH DRO/ORO BY SW8015C		**Method:SW8015M**		Prep:SW3541 / 19-Nov-2020		Analyst: MBG
TPH (Diesel Range)	**280**		**170**	**mg/Kg**	100	20-Nov-2020 23:31
TPH (Motor Oil Range)	**1,300**	n	**340**	**mg/Kg**	100	20-Nov-2020 23:31
Surr: 2-Fluorobiphenyl	*0*	*JS*	*60-129*	*%REC*	*100*	*20-Nov-2020 23:31*
MOISTURE - ASTM D2216		**Method:ASTM D2216**				Analyst: DFF
Percent Moisture	**1.08**		**0.0100**	**wt%**	1	23-Nov-2020 10:16
ANIONS BY E300.0		**Method:E300**		Prep:E300 / 24-Nov-2020		Analyst: YP
Chloride	**88.8**		**4.93**	**mg/Kg**	1	26-Nov-2020 08:23

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 08-Dec-20

Client: TRC Corporation
Project: Artesia Station West
Sample ID: HA-South-0-1
Collection Date: 13-Nov-2020 15:35

ANALYTICAL REPORT
WorkOrder:HS20110868
Lab ID:HS20110868-18
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		**Method:SW8260**				Analyst: WLR
Benzene	< 0.0048		0.0048	mg/Kg	1	22-Nov-2020 19:04
Ethylbenzene	**0.034**		**0.0048**	**mg/Kg**	1	22-Nov-2020 19:04
Toluene	**0.028**		**0.0048**	**mg/Kg**	1	22-Nov-2020 19:04
Xylenes, Total	**0.072**		**0.0048**	**mg/Kg**	1	22-Nov-2020 19:04
Surr: 1,2-Dichloroethane-d4	*93.1*		*70-126*	*%REC*	*1*	*22-Nov-2020 19:04*
Surr: 4-Bromofluorobenzene	*98.2*		*70-130*	*%REC*	*1*	*22-Nov-2020 19:04*
Surr: Dibromofluoromethane	*93.0*		*70-130*	*%REC*	*1*	*22-Nov-2020 19:04*
Surr: Toluene-d8	*99.1*		*70-130*	*%REC*	*1*	*22-Nov-2020 19:04*
GASOLINE RANGE ORGANICS BY SW8015C		**Method:SW8015**				Analyst: QX
Gasoline Range Organics	**0.79**		**0.053**	**mg/Kg**	1	20-Nov-2020 16:09
Surr: 4-Bromofluorobenzene	*116*		*70-123*	*%REC*	*1*	*20-Nov-2020 16:09*
TPH DRO/ORO BY SW8015C		**Method:SW8015M**		Prep:SW3541 / 19-Nov-2020		Analyst: MBG
TPH (Diesel Range)	**170**		**170**	**mg/Kg**	100	20-Nov-2020 23:56
TPH (Motor Oil Range)	**1,000**	n	**340**	**mg/Kg**	100	20-Nov-2020 23:56
Surr: 2-Fluorobiphenyl	*0*	*JS*	*60-129*	*%REC*	*100*	*20-Nov-2020 23:56*
MOISTURE - ASTM D2216		**Method:ASTM D2216**				Analyst: DFF
Percent Moisture	**1.33**		**0.0100**	**wt%**	1	23-Nov-2020 10:16
ANIONS BY E300.0		**Method:E300**		Prep:E300 / 24-Nov-2020		Analyst: YP
Chloride	**279**		**4.91**	**mg/Kg**	1	26-Nov-2020 08:41

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 08-Dec-20

Client: TRC Corporation
Project: Artesia Station West
Sample ID: HA-East-0-1
Collection Date: 13-Nov-2020 15:45

ANALYTICAL REPORT
WorkOrder:HS20110868
Lab ID:HS20110868-19
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		**Method:SW8260**				Analyst: WLR
Benzene	< 0.0048		0.0048	mg/Kg	1	22-Nov-2020 19:27
Ethylbenzene	**0.027**		**0.0048**	**mg/Kg**	1	22-Nov-2020 19:27
Toluene	**0.030**		**0.0048**	**mg/Kg**	1	22-Nov-2020 19:27
Xylenes, Total	**0.055**		**0.0048**	**mg/Kg**	1	22-Nov-2020 19:27
Surr: 1,2-Dichloroethane-d4	*93.5*		*70-126*	*%REC*	*1*	*22-Nov-2020 19:27*
Surr: 4-Bromofluorobenzene	*97.6*		*70-130*	*%REC*	*1*	*22-Nov-2020 19:27*
Surr: Dibromofluoromethane	*92.6*		*70-130*	*%REC*	*1*	*22-Nov-2020 19:27*
Surr: Toluene-d8	*99.1*		*70-130*	*%REC*	*1*	*22-Nov-2020 19:27*
GASOLINE RANGE ORGANICS BY SW8015C		**Method:SW8015**				Analyst: QX
Gasoline Range Organics	**0.60**		**0.053**	**mg/Kg**	1	19-Nov-2020 21:54
Surr: 4-Bromofluorobenzene	*114*		*70-123*	*%REC*	*1*	*19-Nov-2020 21:54*
TPH DRO/ORO BY SW8015C		**Method:SW8015M**		Prep:SW3541 / 19-Nov-2020		Analyst: MBG
TPH (Diesel Range)	**58**		**17**	**mg/Kg**	10	22-Nov-2020 14:46
TPH (Motor Oil Range)	**250**	n	**34**	**mg/Kg**	10	22-Nov-2020 14:46
Surr: 2-Fluorobiphenyl	*60.2*		*60-129*	*%REC*	*10*	*22-Nov-2020 14:46*
MOISTURE - ASTM D2216		**Method:ASTM D2216**				Analyst: DFF
Percent Moisture	**1.94**		**0.0100**	**wt%**	1	23-Nov-2020 10:16
ANIONS BY E300.0		**Method:E300**		Prep:E300 / 24-Nov-2020		Analyst: YP
Chloride	**42.2**		**5.00**	**mg/Kg**	1	02-Dec-2020 03:39

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 08-Dec-20

Client: TRC Corporation
Project: Artesia Station West
Sample ID: TB-11132020-2
Collection Date: 13-Nov-2020 17:00

ANALYTICAL REPORT
WorkOrder:HS20110868
Lab ID:HS20110868-20
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C	**Method:SW8260**					Analyst: PC
Benzene	< 0.0050		0.0050	mg/L	1	26-Nov-2020 20:04
Ethylbenzene	< 0.0050		0.0050	mg/L	1	26-Nov-2020 20:04
m,p-Xylene	< 0.010		0.010	mg/L	1	26-Nov-2020 20:04
o-Xylene	< 0.0050		0.0050	mg/L	1	26-Nov-2020 20:04
Toluene	< 0.0050		0.0050	mg/L	1	26-Nov-2020 20:04
Xylenes, Total	< 0.0050		0.0050	mg/L	1	26-Nov-2020 20:04
Surr: 1,2-Dichloroethane-d4	*80.7*		*70-126*	*%REC*	*1*	*26-Nov-2020 20:04*
Surr: 4-Bromofluorobenzene	*89.0*		*82-124*	*%REC*	*1*	*26-Nov-2020 20:04*
Surr: Dibromofluoromethane	*88.4*		*77-123*	*%REC*	*1*	*26-Nov-2020 20:04*
Surr: Toluene-d8	*102*		*82-127*	*%REC*	*1*	*26-Nov-2020 20:04*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 08-Dec-20

Client: TRC Corporation
Project: Artesia Station West
Sample ID: Duplicate-1
Collection Date: 10-Nov-2020 00:00

ANALYTICAL REPORT
WorkOrder:HS20110868
Lab ID:HS20110868-21
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		**Method:SW8260**				Analyst: WLR
Benzene	**4.1**		**0.38**	**mg/Kg**	10	21-Nov-2020 09:12
Ethylbenzene	**8.4**		**0.25**	**mg/Kg**	50	24-Nov-2020 17:15
Toluene	**2.8**		**0.25**	**mg/Kg**	50	24-Nov-2020 17:15
Xylenes, Total	**21**		**0.25**	**mg/Kg**	50	24-Nov-2020 17:15
Surr: 1,2-Dichloroethane-d4	*83.6*		*70-126*	*%REC*	*10*	*21-Nov-2020 09:12*
Surr: 1,2-Dichloroethane-d4	*99.3*		*70-126*	*%REC*	*50*	*24-Nov-2020 17:15*
Surr: 4-Bromofluorobenzene	*114*		*70-130*	*%REC*	*10*	*21-Nov-2020 09:12*
Surr: 4-Bromofluorobenzene	*96.3*		*70-130*	*%REC*	*50*	*24-Nov-2020 17:15*
Surr: Dibromofluoromethane	*87.0*		*70-130*	*%REC*	*10*	*21-Nov-2020 09:12*
Surr: Dibromofluoromethane	*90.7*		*70-130*	*%REC*	*50*	*24-Nov-2020 17:15*
Surr: Toluene-d8	*131*	*S*	*70-130*	*%REC*	*10*	*21-Nov-2020 09:12*
Surr: Toluene-d8	*105*		*70-130*	*%REC*	*50*	*24-Nov-2020 17:15*
GASOLINE RANGE ORGANICS BY SW8015C		**Method:SW8015**				Analyst: QX
Gasoline Range Organics	**1,200**		**5.2**	**mg/Kg**	100	20-Nov-2020 21:16
Surr: 4-Bromofluorobenzene	*115*		*70-123*	*%REC*	*100*	*20-Nov-2020 21:16*
TPH DRO/ORO BY SW8015C		**Method:SW8015M**		Prep:SW3541 / 19-Nov-2020		Analyst: MBG
TPH (Diesel Range)	**1,600**		**85**	**mg/Kg**	50	23-Nov-2020 14:31
TPH (Motor Oil Range)	**990**	n	**170**	**mg/Kg**	50	23-Nov-2020 14:31
Surr: 2-Fluorobiphenyl	*0*	*JS*	*60-129*	*%REC*	*50*	*23-Nov-2020 14:31*
MOISTURE - ASTM D2216		**Method:ASTM D2216**				Analyst: JAC
Percent Moisture	**9.94**		**0.0100**	**wt%**	1	23-Nov-2020 18:00
ANIONS BY E300.0		**Method:E300**		Prep:E300 / 24-Nov-2020		Analyst: YP
Chloride	**788**		**5.00**	**mg/Kg**	1	02-Dec-2020 03:57

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 08-Dec-20

Weight / Prep Log

Client: TRC Corporation
Project: Artesia Station West
WorkOrder: HS20110868

Batch ID: 4024 **Start Date:** 18 Nov 2020 16:20 **End Date:** 18 Nov 2020 16:20
Method: GASOLINE RANGE ORGANICS BY SW8015C **Prep Code:**

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS20110868-01	1	1.112 (g)	5 (mL)	4.5	Bulk (5030B)
HS20110868-02	1	4.67 (g)	5 (mL)	1.07	Bulk (5030B)
HS20110868-03	1	5.059 (g)	5 (mL)	0.99	Bulk (5030B)
HS20110868-04	1	5.272 (g)	5 (mL)	0.95	Bulk (5030B)
HS20110868-05	1	5.046 (g)	5 (mL)	0.99	Bulk (5030B)
HS20110868-07	1	2.432 (g)	5 (mL)	2.06	Bulk (5030B)
HS20110868-08	1	4.608 (g)	5 (mL)	1.09	Bulk (5030B)
HS20110868-09	1	5.075 (g)	5 (mL)	0.99	Bulk (5030B)
HS20110868-10	1	4.855 (g)	5 (mL)	1.03	Bulk (5030B)
HS20110868-11	1	5.092 (g)	5 (mL)	0.98	Bulk (5030B)
HS20110868-12	1	5.521 (g)	5 (mL)	0.91	Bulk (5030B)
HS20110868-13	1	4.916 (g)	5 (mL)	1.02	Bulk (5030B)
HS20110868-14	1	5.127 (g)	5 (mL)	0.98	Bulk (5030B)
HS20110868-15	1	4.47 (g)	5 (mL)	1.12	Bulk (5030B)
HS20110868-16	1	4.709 (g)	5 (mL)	1.06	Bulk (5030B)
HS20110868-17	1	5.03 (g)	5 (mL)	0	Bulk (5030B)
HS20110868-18	1	4.72 (g)	5 (mL)	1.06	Bulk (5030B)
HS20110868-19	1	4.714 (g)	5 (mL)	1.06	Bulk (5030B)
HS20110868-21	1	4.81 (g)	5 (mL)	0	Bulk (5030B)

Batch ID: 4028 **Start Date:** 20 Nov 2020 08:13 **End Date:** 20 Nov 2020 08:13
Method: VOLATILES BY SW8260C

Sample ID	Container	Sample Wt/Vol	Final Volume	Weight Factor	Container Type
HS20110868-01	1	5.201 (g)	5 (mL)	0.96	Bulk (5030B)
HS20110868-02	1	4.947 (g)	5 (mL)	1.01	Bulk (5030B)
HS20110868-03	1	5.135 (g)	5 (mL)	0.97	Bulk (5030B)
HS20110868-04	1	5.098 (g)	5 (mL)	0.98	Bulk (5030B)
HS20110868-05	1	5.129 (g)	5 (mL)	0.97	Bulk (5030B)
HS20110868-07	1	0.477 (g)	0.5 (mL)	1.05	Bulk (5030B)
HS20110868-08	1	5.088 (g)	5 (mL)	0.98	Bulk (5030B)
HS20110868-09	1	5.098 (g)	5 (mL)	0.98	Bulk (5030B)
HS20110868-10	1	5.337 (g)	5 (mL)	0.94	Bulk (5030B)
HS20110868-11	1	5.005 (g)	5 (mL)	1	Bulk (5030B)
HS20110868-12	1	5.275 (g)	5 (mL)	0.95	Bulk (5030B)
HS20110868-13	1	5.03 (g)	5 (mL)	0.99	Bulk (5030B)
HS20110868-14	1	5.098 (g)	5 (mL)	0.98	Bulk (5030B)
HS20110868-15	1	0.645 (g)	0.5 (mL)	0.78	Bulk (5030B)
HS20110868-16	1	4.963 (g)	5 (mL)	1.01	Bulk (5030B)
HS20110868-17	1	5.364 (g)	5 (mL)	0.93	Bulk (5030B)
HS20110868-18	1	5.15 (g)	5 (mL)	0.97	Bulk (5030B)
HS20110868-19	1	5.209 (g)	5 (mL)	0.96	Bulk (5030B)
HS20110868-21	1	0.666 (g)	0.5 (mL)	7.51	Bulk (5030B)

Weight / Prep Log

Client: TRC Corporation
Project: Artesia Station West
WorkOrder: HS20110868

Batch ID: 159891 **Start Date:** 19 Nov 2020 18:10 **End Date:** 19 Nov 2020 22:30
Method: SOPREP: 3541 TPH **Prep Code:** 8015SPR_LL

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS20110868-01		30.13 (g)	1 (mL)	0.03319
HS20110868-02		30.03 (g)	1 (mL)	0.0333
HS20110868-03		30.07 (g)	1 (mL)	0.03326
HS20110868-04		30.26 (g)	1 (mL)	0.03305
HS20110868-05		30.22 (g)	1 (mL)	0.03309
HS20110868-07		30.28 (g)	1 (mL)	0.03303
HS20110868-08		30.17 (g)	1 (mL)	0.03315
HS20110868-09		30.05 (g)	1 (mL)	0.03328
HS20110868-10		30.11 (g)	1 (mL)	0.03321
HS20110868-11		30.06 (g)	1 (mL)	0.03327
HS20110868-12		30.02 (g)	1 (mL)	0.03331
HS20110868-13		30.01 (g)	1 (mL)	0.03332
HS20110868-14		30.19 (g)	1 (mL)	0.03312
HS20110868-15		30.17 (g)	1 (mL)	0.03315
HS20110868-16		30.06 (g)	1 (mL)	0.03327
HS20110868-17		30.2 (g)	1 (mL)	0.03311
HS20110868-18		30.29 (g)	1 (mL)	0.03301

Batch ID: 159892 **Start Date:** 20 Nov 2020 06:00 **End Date:** 20 Nov 2020 09:00
Method: SOPREP: 3541 TPH **Prep Code:** 8015SPR_LL

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS20110868-19		30.36 (g)	1 (mL)	0.03294
HS20110868-21		30.14 (g)	1 (mL)	0.03318

Batch ID: 160056 **Start Date:** 24 Nov 2020 13:35 **End Date:** 24 Nov 2020 16:00
Method: 300 ANIONS SOIL PREP **Prep Code:** 300_S_PR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS20110868-01		5.0526 (g)	50 (mL)	9.896
HS20110868-02		5.0421 (g)	50 (mL)	9.917
HS20110868-03		5.0166 (g)	50 (mL)	9.967
HS20110868-04		5.0925 (g)	50 (mL)	9.818
HS20110868-05		5.0495 (g)	50 (mL)	9.902
HS20110868-07		5.0555 (g)	50 (mL)	9.89
HS20110868-08		5.085 (g)	50 (mL)	9.833
HS20110868-09		5.0452 (g)	50 (mL)	9.91
HS20110868-10		5.0817 (g)	50 (mL)	9.839
HS20110868-11		5.0037 (g)	50 (mL)	9.993
HS20110868-12		5.087 (g)	50 (mL)	9.829
HS20110868-13		5.046 (g)	50 (mL)	9.909
HS20110868-14		5.0045 (g)	50 (mL)	9.991
HS20110868-15		5.0449 (g)	50 (mL)	9.911
HS20110868-16		5.0757 (g)	50 (mL)	9.851
HS20110868-17		5.072 (g)	50 (mL)	9.858
HS20110868-18		5.0937 (g)	50 (mL)	9.816

ALS Houston, US

Date: 08-Dec-20

Weight / Prep Log

Client: TRC Corporation
Project: Artesia Station West
WorkOrder: HS20110868

Batch ID: 160071 **Start Date:** 24 Nov 2020 17:34 **End Date:** 24 Nov 2020 20:00
Method: 300 ANIONS SOIL PREP **Prep Code:** 300_S_PR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS20110868-19		5.0023 (g)	50 (mL)	9.995
HS20110868-21		5.0015 (g)	50 (mL)	9.997

ALS Houston, US Date: 08-Dec-20

Client: TRC Corporation
Project: Artesia Station West
WorkOrder: HS20110868

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 159891 (0)	**Test Name :** TPH DRO/ORO BY SW8015C				**Matrix:** Soil	
HS20110868-01	SB-1-20-22	10 Nov 2020 10:15		19 Nov 2020 18:10	20 Nov 2020 21:31	100
HS20110868-02	SB-1-30-32	10 Nov 2020 11:45		19 Nov 2020 18:10	20 Nov 2020 21:55	100
HS20110868-03	SB-1-40-42	10 Nov 2020 11:15		19 Nov 2020 18:10	22 Nov 2020 14:22	5
HS20110868-04	SB-1-50-52	10 Nov 2020 11:45		19 Nov 2020 18:10	20 Nov 2020 18:41	10
HS20110868-05	SB-1-60-62	10 Nov 2020 14:30		19 Nov 2020 18:10	22 Nov 2020 14:46	5
HS20110868-07	SB-1-75-77	10 Nov 2020 16:00		19 Nov 2020 18:10	20 Nov 2020 19:30	100
HS20110868-08	SB-1-80-82	11 Nov 2020 08:00		19 Nov 2020 18:10	20 Nov 2020 19:54	1
HS20110868-09	SB-1-90-92	11 Nov 2020 11:00		19 Nov 2020 18:10	20 Nov 2020 20:19	1
HS20110868-10	SB-1-95-97	11 Nov 2020 11:30		19 Nov 2020 18:10	22 Nov 2020 15:10	5
HS20110868-11	SB-1-100-102	11 Nov 2020 12:00		19 Nov 2020 18:10	20 Nov 2020 21:07	1
HS20110868-12	SB-2-40-42	11 Nov 2020 16:15		19 Nov 2020 18:10	22 Nov 2020 15:35	10
HS20110868-13	SB-2-60-62	12 Nov 2020 09:15		19 Nov 2020 18:10	22 Nov 2020 15:59	5
HS20110868-14	SB-3-0-2	12 Nov 2020 13:30		19 Nov 2020 18:10	20 Nov 2020 22:19	100
HS20110868-15	SB-3-20-22	12 Nov 2020 14:20		19 Nov 2020 18:10	20 Nov 2020 23:31	100
HS20110868-16	HA-North-0-2	13 Nov 2020 15:15		19 Nov 2020 18:10	20 Nov 2020 23:56	100
HS20110868-17	HA-West-0-1	13 Nov 2020 15:25		19 Nov 2020 18:10	20 Nov 2020 23:31	100
HS20110868-18	HA-South-0-1	13 Nov 2020 15:35		19 Nov 2020 18:10	20 Nov 2020 23:56	100
Batch ID: 159892 (0)	**Test Name :** TPH DRO/ORO BY SW8015C				**Matrix:** Soil	
HS20110868-19	HA-East-0-1	13 Nov 2020 15:45		19 Nov 2020 23:00	22 Nov 2020 14:46	10
HS20110868-21	Duplicate-1	10 Nov 2020 00:00		19 Nov 2020 23:00	23 Nov 2020 14:31	50
Batch ID: 160056 (0)	**Test Name :** ANIONS BY E300.0				**Matrix:** Soil	
HS20110868-01	SB-1-20-22	10 Nov 2020 10:15		24 Nov 2020 13:35	26 Nov 2020 02:38	20
HS20110868-02	SB-1-30-32	10 Nov 2020 11:45		24 Nov 2020 13:35	26 Nov 2020 02:57	20
HS20110868-03	SB-1-40-42	10 Nov 2020 11:15		24 Nov 2020 13:35	26 Nov 2020 03:15	20
HS20110868-04	SB-1-50-52	10 Nov 2020 11:45		24 Nov 2020 13:35	26 Nov 2020 03:33	1
HS20110868-05	SB-1-60-62	10 Nov 2020 14:30		24 Nov 2020 13:35	26 Nov 2020 03:51	1
HS20110868-07	SB-1-75-77	10 Nov 2020 16:00		24 Nov 2020 13:35	26 Nov 2020 04:09	1
HS20110868-08	SB-1-80-82	11 Nov 2020 08:00		24 Nov 2020 13:35	26 Nov 2020 04:27	1
HS20110868-09	SB-1-90-92	11 Nov 2020 11:00		24 Nov 2020 13:35	26 Nov 2020 05:58	1
HS20110868-10	SB-1-95-97	11 Nov 2020 11:30		24 Nov 2020 13:35	26 Nov 2020 06:16	1
HS20110868-11	SB-1-100-102	11 Nov 2020 12:00		24 Nov 2020 13:35	26 Nov 2020 06:34	1
HS20110868-12	SB-2-40-42	11 Nov 2020 16:15		24 Nov 2020 13:35	26 Nov 2020 06:52	1
HS20110868-13	SB-2-60-62	12 Nov 2020 09:15		24 Nov 2020 13:35	26 Nov 2020 07:10	1
HS20110868-14	SB-3-0-2	12 Nov 2020 13:30		24 Nov 2020 13:35	26 Nov 2020 07:28	1
HS20110868-15	SB-3-20-22	12 Nov 2020 14:20		24 Nov 2020 13:35	26 Nov 2020 07:47	1
HS20110868-16	HA-North-0-2	13 Nov 2020 15:15		24 Nov 2020 13:35	26 Nov 2020 08:05	1
HS20110868-17	HA-West-0-1	13 Nov 2020 15:25		24 Nov 2020 13:35	26 Nov 2020 08:23	1
HS20110868-18	HA-South-0-1	13 Nov 2020 15:35		24 Nov 2020 13:35	26 Nov 2020 08:41	1

ALS Houston, US Date: 08-Dec-20

Client: TRC Corporation
Project: Artesia Station West
WorkOrder: HS20110868

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 160071 (0)	**Test Name :** ANIONS BY E300.0				**Matrix:** Soil	
HS20110868-19	HA-East-0-1	13 Nov 2020 15:45		24 Nov 2020 17:34	02 Dec 2020 03:39	1
HS20110868-21	Duplicate-1	10 Nov 2020 00:00		24 Nov 2020 17:34	02 Dec 2020 03:57	1
Batch ID: R373025 (0)	**Test Name :** VOLATILES BY SW8260C				**Matrix:** Soil	
HS20110868-01	SB-1-20-22	10 Nov 2020 10:15			20 Nov 2020 08:54	1
HS20110868-02	SB-1-30-32	10 Nov 2020 11:45			20 Nov 2020 09:18	1
Batch ID: R373029 (0)	**Test Name :** GASOLINE RANGE ORGANICS BY SW8015C				**Matrix:** Soil	
HS20110868-01	SB-1-20-22	10 Nov 2020 10:15			19 Nov 2020 12:09	1
HS20110868-02	SB-1-30-32	10 Nov 2020 11:45			19 Nov 2020 11:21	1
HS20110868-03	SB-1-40-42	10 Nov 2020 11:15			19 Nov 2020 15:28	1
HS20110868-04	SB-1-50-52	10 Nov 2020 11:45			19 Nov 2020 11:53	1
HS20110868-05	SB-1-60-62	10 Nov 2020 14:30			19 Nov 2020 15:44	1
HS20110868-07	SB-1-75-77	10 Nov 2020 16:00			19 Nov 2020 12:25	1
HS20110868-08	SB-1-80-82	11 Nov 2020 08:00			19 Nov 2020 16:00	1
HS20110868-09	SB-1-90-92	11 Nov 2020 11:00			19 Nov 2020 16:16	1
HS20110868-10	SB-1-95-97	11 Nov 2020 11:30			19 Nov 2020 16:33	1
HS20110868-11	SB-1-100-102	11 Nov 2020 12:00			19 Nov 2020 16:49	1
HS20110868-12	SB-2-40-42	11 Nov 2020 16:15			19 Nov 2020 17:05	1
HS20110868-13	SB-2-60-62	12 Nov 2020 09:15			19 Nov 2020 17:21	1
HS20110868-14	SB-3-0-2	12 Nov 2020 13:30			19 Nov 2020 18:25	1
HS20110868-15	SB-3-20-22	12 Nov 2020 14:20			19 Nov 2020 18:41	1
HS20110868-16	HA-North-0-2	13 Nov 2020 15:15			19 Nov 2020 19:14	1
Batch ID: R373030 (0)	**Test Name :** GASOLINE RANGE ORGANICS BY SW8015C				**Matrix:** Soil	
HS20110868-19	HA-East-0-1	13 Nov 2020 15:45			19 Nov 2020 21:54	1
Batch ID: R373129 (0)	**Test Name :** VOLATILES BY SW8260C				**Matrix:** Soil	
HS20110868-09	SB-1-90-92	11 Nov 2020 11:00			21 Nov 2020 05:37	1
HS20110868-10	SB-1-95-97	11 Nov 2020 11:30			21 Nov 2020 06:01	1
HS20110868-11	SB-1-100-102	11 Nov 2020 12:00			21 Nov 2020 06:24	1
HS20110868-12	SB-2-40-42	11 Nov 2020 16:15			21 Nov 2020 06:48	1
HS20110868-13	SB-2-60-62	12 Nov 2020 09:15			21 Nov 2020 07:12	1
HS20110868-14	SB-3-0-2	12 Nov 2020 13:30			21 Nov 2020 08:00	1
HS20110868-15	SB-3-20-22	12 Nov 2020 14:20			21 Nov 2020 09:35	10
HS20110868-16	HA-North-0-2	13 Nov 2020 15:15			21 Nov 2020 08:48	1
HS20110868-17	HA-West-0-1	13 Nov 2020 15:25			21 Nov 2020 07:36	1
HS20110868-21	Duplicate-1	10 Nov 2020 00:00			21 Nov 2020 09:12	10
Batch ID: R373157 (0)	**Test Name :** VOLATILES BY SW8260C				**Matrix:** Soil	
HS20110868-07	SB-1-75-77	10 Nov 2020 16:00			22 Nov 2020 21:56	10
HS20110868-08	SB-1-80-82	11 Nov 2020 08:00			22 Nov 2020 21:34	1

ALS Houston, US Date: 08-Dec-20

Client: TRC Corporation
Project: Artesia Station West
WorkOrder: HS20110868

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R373160 (0)	**Test Name :** VOLATILES BY SW8260C				**Matrix:** Soil	
HS20110868-18	HA-South-0-1	13 Nov 2020 15:35			22 Nov 2020 19:04	1
HS20110868-19	HA-East-0-1	13 Nov 2020 15:45			22 Nov 2020 19:27	1
Batch ID: R373166 (0)	**Test Name :** GASOLINE RANGE ORGANICS BY SW8015C				**Matrix:** Soil	
HS20110868-17	HA-West-0-1	13 Nov 2020 15:25			20 Nov 2020 15:53	1
HS20110868-18	HA-South-0-1	13 Nov 2020 15:35			20 Nov 2020 16:09	1
Batch ID: R373192 (0)	**Test Name :** VOLATILES BY SW8260C				**Matrix:** Soil	
HS20110868-03	SB-1-40-42	10 Nov 2020 11:15			23 Nov 2020 12:47	1
HS20110868-04	SB-1-50-52	10 Nov 2020 11:45			23 Nov 2020 13:11	1
HS20110868-05	SB-1-60-62	10 Nov 2020 14:30			23 Nov 2020 13:35	1
Batch ID: R373218 (0)	**Test Name :** GASOLINE RANGE ORGANICS BY SW8015C				**Matrix:** Soil	
HS20110868-21	Duplicate-1	10 Nov 2020 00:00			20 Nov 2020 21:16	100
Batch ID: R373336 (0)	**Test Name :** MOISTURE - ASTM D2216				**Matrix:** Soil	
HS20110868-01	SB-1-20-22	10 Nov 2020 10:15			23 Nov 2020 10:16	1
HS20110868-02	SB-1-30-32	10 Nov 2020 11:45			23 Nov 2020 10:16	1
HS20110868-03	SB-1-40-42	10 Nov 2020 11:15			23 Nov 2020 10:16	1
HS20110868-04	SB-1-50-52	10 Nov 2020 11:45			23 Nov 2020 10:16	1
HS20110868-05	SB-1-60-62	10 Nov 2020 14:30			23 Nov 2020 10:16	1
HS20110868-07	SB-1-75-77	10 Nov 2020 16:00			23 Nov 2020 10:16	1
HS20110868-08	SB-1-80-82	11 Nov 2020 08:00			23 Nov 2020 10:16	1
HS20110868-09	SB-1-90-92	11 Nov 2020 11:00			23 Nov 2020 10:16	1
HS20110868-10	SB-1-95-97	11 Nov 2020 11:30			23 Nov 2020 10:16	1
HS20110868-11	SB-1-100-102	11 Nov 2020 12:00			23 Nov 2020 10:16	1
HS20110868-12	SB-2-40-42	11 Nov 2020 16:15			23 Nov 2020 10:16	1
HS20110868-13	SB-2-60-62	12 Nov 2020 09:15			23 Nov 2020 10:16	1
HS20110868-14	SB-3-0-2	12 Nov 2020 13:30			23 Nov 2020 10:16	1
HS20110868-15	SB-3-20-22	12 Nov 2020 14:20			23 Nov 2020 10:16	1
HS20110868-16	HA-North-0-2	13 Nov 2020 15:15			23 Nov 2020 10:16	1
HS20110868-17	HA-West-0-1	13 Nov 2020 15:25			23 Nov 2020 10:16	1
HS20110868-18	HA-South-0-1	13 Nov 2020 15:35			23 Nov 2020 10:16	1
HS20110868-19	HA-East-0-1	13 Nov 2020 15:45			23 Nov 2020 10:16	1
Batch ID: R373339 (0)	**Test Name :** MOISTURE - ASTM D2216				**Matrix:** Soil	
HS20110868-21	Duplicate-1	10 Nov 2020 00:00			23 Nov 2020 18:00	1
Batch ID: R373397 (0)	**Test Name :** VOLATILES BY SW8260C				**Matrix:** Soil	
HS20110868-01	SB-1-20-22	10 Nov 2020 10:15			24 Nov 2020 16:32	50
HS20110868-07	SB-1-75-77	10 Nov 2020 16:00			24 Nov 2020 16:54	50
HS20110868-21	Duplicate-1	10 Nov 2020 00:00			24 Nov 2020 17:15	50

ALS Houston, US Date: 08-Dec-20

Client: TRC Corporation
Project: Artesia Station West
WorkOrder: HS20110868

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R373496 (0)	**Test Name :** VOLATILES - SW8260C				**Matrix:** Water	
HS20110868-20	TB-11132020-2	13 Nov 2020 17:00			26 Nov 2020 20:04	1
Batch ID: R373497 (0)	**Test Name :** VOLATILES BY SW8260C				**Matrix:** Soil	
HS20110868-14	SB-3-0-2	12 Nov 2020 13:30			26 Nov 2020 16:33	50
HS20110868-15	SB-3-20-22	12 Nov 2020 14:20			26 Nov 2020 16:12	50

ALS Houston, US Date: 08-Dec-20

Client: TRC Corporation
Project: Artesia Station West
WorkOrder: HS20110868

QC BATCH REPORT

Batch ID: 159891 (0) **Instrument: FID-7** **Method: TPH DRO/ORO BY SW8015C**

MBLK Sample ID: **MBLK-159891** Units: **mg/Kg** Analysis Date: **20-Nov-2020 18:41**
Client ID: Run ID: **FID-7_373229** SeqNo: **5846986** PrepDate: **19-Nov-2020** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	< 1.7	1.7								
TPH (Motor Oil Range)	< 3.4	3.4								
Surr: 2-Fluorobiphenyl	*2.437*	*0.10*	*3.33*	*0*	*73.2*	*70 - 130*				

LCS Sample ID: **LCS-159891** Units: **mg/Kg** Analysis Date: **20-Nov-2020 19:06**
Client ID: Run ID: **FID-7_373229** SeqNo: **5846987** PrepDate: **19-Nov-2020** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	29.99	1.7	33.33	0	90.0	70 - 130				
TPH (Motor Oil Range)	23.96	3.4	33.33	0	71.9	70 - 130				
Surr: 2-Fluorobiphenyl	*2.335*	*0.10*	*3.33*	*0*	*70.1*	*70 - 130*				

MS Sample ID: **HS20110458-15MS** Units: **mg/Kg** Analysis Date: **20-Nov-2020 19:54**
Client ID: Run ID: **FID-7_373229** SeqNo: **5846989** PrepDate: **19-Nov-2020** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	35.06	1.7	33.16	2.57	98.0	70 - 130				
TPH (Motor Oil Range)	35.31	3.4	33.16	6.166	87.9	70 - 130				
Surr: 2-Fluorobiphenyl	*2.947*	*0.10*	*3.313*	*0*	*88.9*	*60 - 129*				

MSD Sample ID: **HS20110458-15MSD** Units: **mg/Kg** Analysis Date: **20-Nov-2020 20:19**
Client ID: Run ID: **FID-7_373229** SeqNo: **5846990** PrepDate: **19-Nov-2020** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	31.97	1.7	33.22	2.57	88.5	70 - 130	35.06	9.22	30	
TPH (Motor Oil Range)	34.39	3.4	33.22	6.166	85.0	70 - 130	35.31	2.63	30	
Surr: 2-Fluorobiphenyl	*2.793*	*0.10*	*3.319*	*0*	*84.1*	*60 - 129*	*2.947*	*5.38*	*30*	

The following samples were analyzed in this batch:

HS20110868-01	HS20110868-02	HS20110868-03	HS20110868-04
HS20110868-05	HS20110868-07	HS20110868-08	HS20110868-09
HS20110868-10	HS20110868-11	HS20110868-12	HS20110868-13
HS20110868-14	HS20110868-15	HS20110868-16	HS20110868-17
HS20110868-18			

ALS Houston, US Date: 08-Dec-20

Client: TRC Corporation
Project: Artesia Station West
WorkOrder: HS20110868

QC BATCH REPORT

Batch ID: 159892 (0) **Instrument: FID-8** **Method: TPH DRO/ORO BY SW8015C**

MBLK Sample ID: **MBLK-159892** Units: **mg/Kg** Analysis Date: **22-Nov-2020 13:58**
Client ID: Run ID: **FID-8_373334** SeqNo: **5849483** PrepDate: **19-Nov-2020** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	< 1.7	1.7								
TPH (Motor Oil Range)	< 3.4	3.4								
Surr: 2-Fluorobiphenyl	*2.577*	*0.10*	*3.33*	*0*	*77.4*	*70 - 130*				

LCS Sample ID: **LCS-159892** Units: **mg/Kg** Analysis Date: **22-Nov-2020 14:22**
Client ID: Run ID: **FID-8_373334** SeqNo: **5849484** PrepDate: **19-Nov-2020** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	29.23	1.7	33.33	0	87.7	70 - 130				
TPH (Motor Oil Range)	24.07	3.4	33.33	0	72.2	70 - 130				
Surr: 2-Fluorobiphenyl	*2.514*	*0.10*	*3.33*	*0*	*75.5*	*70 - 130*				

MS Sample ID: **HS20110868-19MS** Units: **mg/Kg** Analysis Date: **22-Nov-2020 15:10**
Client ID: **HA-East-0-1** Run ID: **FID-8_373334** SeqNo: **5849486** PrepDate: **19-Nov-2020** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	185.6	17	33.31	58.34	382	70 - 130				S
TPH (Motor Oil Range)	427.5	34	33.31	251.2	529	70 - 130				SO
Surr: 2-Fluorobiphenyl	*3.388*	*1.0*	*3.328*	*0*	*102*	*60 - 129*				

MSD Sample ID: **HS20110868-19MSD** Units: **mg/Kg** Analysis Date: **22-Nov-2020 15:35**
Client ID: **HA-East-0-1** Run ID: **FID-8_373334** SeqNo: **5849487** PrepDate: **19-Nov-2020** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	70.38	17	33.2	58.34	36.3	70 - 130	185.6	90	30	SR
TPH (Motor Oil Range)	272.9	34	33.2	251.2	65.3	70 - 130	427.5	44.1	30	SRO
Surr: 2-Fluorobiphenyl	*2.205*	*1.0*	*3.317*	*0*	*66.5*	*60 - 129*	*3.388*	*42.3*	*30*	R

The following samples were analyzed in this batch: HS20110868-19 HS20110868-21

ALS Houston, US Date: 08-Dec-20

Client: TRC Corporation
Project: Artesia Station West
WorkOrder: HS20110868

QC BATCH REPORT

Batch ID: R373029 (0) **Instrument:** FID-14 **Method:** GASOLINE RANGE ORGANICS BY SW8015C

MBLK Sample ID: **MBLK-111920** Units: **mg/Kg** Analysis Date: **19-Nov-2020 10:48**
Client ID: Run ID: **FID-14_373029** SeqNo: **5842214** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	< 0.050	0.050								
Surr: 4-Bromofluorobenzene	*0.1069*	*0.0050*	*0.1*	*0*	*107*	*75 - 121*				

LCS Sample ID: **LCS-111920** Units: **mg/Kg** Analysis Date: **19-Nov-2020 10:32**
Client ID: Run ID: **FID-14_373029** SeqNo: **5842213** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.184	0.050	1	0	118	72 - 121				
Surr: 4-Bromofluorobenzene	*0.1012*	*0.0050*	*0.1*	*0*	*101*	*75 - 121*				

MS Sample ID: **HS20110868-04MS** Units: **mg/Kg** Analysis Date: **19-Nov-2020 13:16**
Client ID: **SB-1-50-52** Run ID: **FID-14_373029** SeqNo: **5842221** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.595	0.052	1.04	0.5629	99.3	70 - 130				
Surr: 4-Bromofluorobenzene	*0.1086*	*0.0052*	*0.104*	*0*	*104*	*70 - 123*				

MSD Sample ID: **HS20110868-04MSD** Units: **mg/Kg** Analysis Date: **19-Nov-2020 13:32**
Client ID: **SB-1-50-52** Run ID: **FID-14_373029** SeqNo: **5842222** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.553	0.048	0.97	0.5629	102	70 - 130	1.595	2.66	30	
Surr: 4-Bromofluorobenzene	*0.0948*	*0.0048*	*0.097*	*0*	*97.7*	*70 - 123*	*0.1086*	*13.6*	*30*	

The following samples were analyzed in this batch:

HS20110868-01	HS20110868-02	HS20110868-03	HS20110868-04
HS20110868-05	HS20110868-07	HS20110868-08	HS20110868-09
HS20110868-10	HS20110868-11	HS20110868-12	HS20110868-13
HS20110868-14	HS20110868-15	HS20110868-16	

ALS Houston, US Date: 08-Dec-20

Client: TRC Corporation
Project: Artesia Station West
WorkOrder: HS20110868

QC BATCH REPORT

Batch ID: R373030 (0) **Instrument: FID-14** **Method: GASOLINE RANGE ORGANICS BY SW8015C**

MBLK Sample ID: **MBLK-112020** Units: **mg/Kg** Analysis Date: **19-Nov-2020 20:50**
Client ID: Run ID: **FID-14_373030** SeqNo: **5842244** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	< 0.050	0.050								
Surr: 4-Bromofluorobenzene	*0.1073*	*0.0050*	*0.1*	*0*	*107*	*75 - 121*				

LCS Sample ID: **LCS-112020** Units: **mg/Kg** Analysis Date: **19-Nov-2020 20:18**
Client ID: Run ID: **FID-14_373030** SeqNo: **5842242** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.082	0.050	1	0	108	72 - 121				
Surr: 4-Bromofluorobenzene	*0.09045*	*0.0050*	*0.1*	*0*	*90.5*	*75 - 121*				

LCSD Sample ID: **LCSD-112020** Units: **mg/Kg** Analysis Date: **19-Nov-2020 20:34**
Client ID: Run ID: **FID-14_373030** SeqNo: **5842243** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.035	0.050	1	0	104	72 - 121	1.082	4.39	30	
Surr: 4-Bromofluorobenzene	*0.09032*	*0.0050*	*0.1*	*0*	*90.3*	*75 - 121*	*0.09045*	*0.149*	*30*	

MS Sample ID: **HS20110870-13MS** Units: **mg/Kg** Analysis Date: **20-Nov-2020 05:46**
Client ID: Run ID: **FID-14_373030** SeqNo: **5842262** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.166	0.054	1.09	0.08255	99.4	70 - 130				
Surr: 4-Bromofluorobenzene	*0.07636*	*0.0054*	*0.109*	*0*	*70.1*	*70 - 123*				

MSD Sample ID: **HS20110870-13MSD** Units: **mg/Kg** Analysis Date: **20-Nov-2020 06:02**
Client ID: Run ID: **FID-14_373030** SeqNo: **5842263** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.156	0.054	1.08	0.08255	99.4	70 - 130	1.166	0.89	30	
Surr: 4-Bromofluorobenzene	*0.07624*	*0.0054*	*0.108*	*0*	*70.6*	*70 - 123*	*0.07636*	*0.155*	*30*	

The following samples were analyzed in this batch: HS20110868-19

ALS Houston, US Date: 08-Dec-20

Client: TRC Corporation
Project: Artesia Station West
WorkOrder: HS20110868

QC BATCH REPORT

Batch ID: R373166 (0) **Instrument: FID-14** **Method: GASOLINE RANGE ORGANICS BY SW8015C**

MBLK Sample ID: **MBLK-112020** Units: **mg/Kg** Analysis Date: **20-Nov-2020 15:04**
Client ID: Run ID: **FID-14_373166** SeqNo: **5845715** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	< 0.050	0.050								
Surr: 4-Bromofluorobenzene	*0.1074*	*0.0050*	*0.1*	*0*	*107*	*75 - 121*				

LCS Sample ID: **LCS-112020** Units: **mg/Kg** Analysis Date: **20-Nov-2020 14:48**
Client ID: Run ID: **FID-14_373166** SeqNo: **5845714** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.144	0.050	1	0	114	72 - 121				
Surr: 4-Bromofluorobenzene	*0.09863*	*0.0050*	*0.1*	*0*	*98.6*	*75 - 121*				

MS Sample ID: **HS20110956-01MS** Units: **mg/Kg** Analysis Date: **20-Nov-2020 16:57**
Client ID: Run ID: **FID-14_373166** SeqNo: **5845722** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	0.4452	0.054	1.08	0	41.2	70 - 130				S
Surr: 4-Bromofluorobenzene	*0.02014*	*0.0054*	*0.108*	*0*	*18.6*	*70 - 123*				S

MSD Sample ID: **HS20110956-01MSD** Units: **mg/Kg** Analysis Date: **20-Nov-2020 17:13**
Client ID: Run ID: **FID-14_373166** SeqNo: **5845723** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	0.4379	0.047	0.94	0	46.6	70 - 130	0.4452	1.65	30	S
Surr: 4-Bromofluorobenzene	*0.01402*	*0.0047*	*0.094*	*0*	*14.9*	*70 - 123*	*0.02014*	*35.8*	*30*	SR

The following samples were analyzed in this batch: HS20110868-17 HS20110868-18

ALS Houston, US Date: 08-Dec-20

Client: TRC Corporation
Project: Artesia Station West
WorkOrder: HS20110868

QC BATCH REPORT

Batch ID: R373218 (0) **Instrument:** FID-14 **Method:** GASOLINE RANGE ORGANICS BY SW8015C

MBLK Sample ID: **MBLK-112020** Units: **mg/Kg** Analysis Date: **20-Nov-2020 20:13**
Client ID: Run ID: **FID-14_373218** SeqNo: **5846713** PrepDate: DF: **50**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	< 2.5	2.5								
Surr: 4-Bromofluorobenzene	*5.603*	*0.25*	*5*	*0*	*112*	*75 - 121*				

LCS Sample ID: **LCS-112020** Units: **mg/Kg** Analysis Date: **20-Nov-2020 19:25**
Client ID: Run ID: **FID-14_373218** SeqNo: **5846712** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.178	0.050	1	0	118	72 - 121				
Surr: 4-Bromofluorobenzene	*0.1164*	*0.0050*	*0.1*	*0*	*116*	*75 - 121*				

MS Sample ID: **HS20110840-01MS** Units: **mg/Kg** Analysis Date: **20-Nov-2020 20:45**
Client ID: Run ID: **FID-14_373218** SeqNo: **5846715** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.157	0.050	1	0	116	70 - 130				
Surr: 4-Bromofluorobenzene	*0.1087*	*0.0050*	*0.1*	*0*	*109*	*70 - 123*				

MSD Sample ID: **HS20110840-01MSD** Units: **mg/Kg** Analysis Date: **20-Nov-2020 21:00**
Client ID: Run ID: **FID-14_373218** SeqNo: **5846716** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.12	0.050	1	0	112	70 - 130	1.157	3.24	30	
Surr: 4-Bromofluorobenzene	*0.1066*	*0.0050*	*0.1*	*0*	*107*	*70 - 123*	*0.1087*	*1.91*	*30*	

The following samples were analyzed in this batch: HS20110868-21

ALS Houston, US Date: 08-Dec-20

Client: TRC Corporation
Project: Artesia Station West
WorkOrder: HS20110868

QC BATCH REPORT

Batch ID: R373025 (0) **Instrument: VOA5** **Method: VOLATILES BY SW8260C**

MBLK Sample ID: **VBLKS1-112020** Units: **ug/Kg** Analysis Date: **20-Nov-2020 00:33**
Client ID: Run ID: **VOA5_373025** SeqNo: **5842116** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	< 5.0	5.0								
Ethylbenzene	< 5.0	5.0								
Toluene	< 5.0	5.0								
Xylenes, Total	< 5.0	5.0								
Surr: 1,2-Dichloroethane-d4	*43.22*	*0*	*50*	*0*	*86.4*	*76 - 125*				
Surr: 4-Bromofluorobenzene	*47.72*	*0*	*50*	*0*	*95.4*	*80 - 120*				
Surr: Dibromofluoromethane	*46.35*	*0*	*50*	*0*	*92.7*	*80 - 119*				
Surr: Toluene-d8	*49.35*	*0*	*50*	*0*	*98.7*	*81 - 118*				

LCS Sample ID: **VLCSS1-112020** Units: **ug/Kg** Analysis Date: **19-Nov-2020 23:46**
Client ID: Run ID: **VOA5_373025** SeqNo: **5842115** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	47.61	5.0	50	0	95.2	75 - 124				
Ethylbenzene	48.51	5.0	50	0	97.0	70 - 123				
Toluene	47.15	5.0	50	0	94.3	76 - 122				
Xylenes, Total	142.6	5.0	150	0	95.1	77 - 128				
Surr: 1,2-Dichloroethane-d4	*48.94*	*0*	*50*	*0*	*97.9*	*76 - 125*				
Surr: 4-Bromofluorobenzene	*50.53*	*0*	*50*	*0*	*101*	*80 - 120*				
Surr: Dibromofluoromethane	*49.61*	*0*	*50*	*0*	*99.2*	*80 - 119*				
Surr: Toluene-d8	*49.5*	*0*	*50*	*0*	*99.0*	*81 - 118*				

MS Sample ID: **HS20110514-03MS** Units: **ug/Kg** Analysis Date: **20-Nov-2020 01:21**
Client ID: Run ID: **VOA5_373025** SeqNo: **5842118** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	20.36	4.7	47	0	43.3	70 - 130				S
Ethylbenzene	16.2	4.7	47	0	34.5	70 - 130				S
Toluene	18.41	4.7	47	0	39.2	70 - 130				S
Xylenes, Total	45.77	4.7	141	0	32.5	70 - 130				S
Surr: 1,2-Dichloroethane-d4	*49.52*	*0*	*47*	*0*	*105*	*70 - 126*				
Surr: 4-Bromofluorobenzene	*47.23*	*0*	*47*	*0*	*100*	*70 - 130*				
Surr: Dibromofluoromethane	*46.11*	*0*	*47*	*0*	*98.1*	*70 - 130*				
Surr: Toluene-d8	*46.22*	*0*	*47*	*0*	*98.3*	*70 - 130*				

ALS Houston, US Date: 08-Dec-20

Client: TRC Corporation
Project: Artesia Station West
WorkOrder: HS20110868

QC BATCH REPORT

Batch ID: R373025 (0) **Instrument: VOA5** **Method: VOLATILES BY SW8260C**

MSD Sample ID: **HS20110514-03MSD** Units: **ug/Kg** Analysis Date: **20-Nov-2020 01:45**
Client ID: Run ID: **VOA5_373025** SeqNo: **5842119** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Benzene	26.34	4.8	48	0	54.9	70 - 130	20.36	25.6	30	S
Ethylbenzene	20.38	4.8	48	0	42.5	70 - 130	16.2	22.9	30	S
Toluene	23.44	4.8	48	0	48.8	70 - 130	18.41	24	30	S
Xylenes, Total	56.22	4.8	144	0	39.0	70 - 130	45.77	20.5	30	S
Surr: 1,2-Dichloroethane-d4	*49.55*	*0*	*48*	*0*	*103*	*70 - 126*	*49.52*	*0.0626*	*30*	
Surr: 4-Bromofluorobenzene	*47.56*	*0*	*48*	*0*	*99.1*	*70 - 130*	*47.23*	*0.698*	*30*	
Surr: Dibromofluoromethane	*47*	*0*	*48*	*0*	*97.9*	*70 - 130*	*46.11*	*1.92*	*30*	
Surr: Toluene-d8	*47.69*	*0*	*48*	*0*	*99.3*	*70 - 130*	*46.22*	*3.13*	*30*	

The following samples were analyzed in this batch: HS20110868-01 HS20110868-02

ALS Houston, US Date: 08-Dec-20

Client: TRC Corporation
Project: Artesia Station West
WorkOrder: HS20110868

QC BATCH REPORT

Batch ID: R373129 (0) **Instrument: VOA5** **Method: VOLATILES BY SW8260C**

MBLK Sample ID: **VBLKS1-112120** Units: **ug/Kg** Analysis Date: **21-Nov-2020 00:51**
Client ID: Run ID: **VOA5_373129** SeqNo: **5844559** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	< 5.0	5.0								
Ethylbenzene	< 5.0	5.0								
Toluene	< 5.0	5.0								
Xylenes, Total	< 5.0	5.0								
Surr: 1,2-Dichloroethane-d4	*43.05*	*0*	*50*	*0*	*86.1*	*76 - 125*				
Surr: 4-Bromofluorobenzene	*48.36*	*0*	*50*	*0*	*96.7*	*80 - 120*				
Surr: Dibromofluoromethane	*44.69*	*0*	*50*	*0*	*89.4*	*80 - 119*				
Surr: Toluene-d8	*49.35*	*0*	*50*	*0*	*98.7*	*81 - 118*				

LCS Sample ID: **VLCSS1-112120** Units: **ug/Kg** Analysis Date: **21-Nov-2020 00:03**
Client ID: Run ID: **VOA5_373129** SeqNo: **5844558** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	45	5.0	50	0	90.0	75 - 124				
Ethylbenzene	46.15	5.0	50	0	92.3	70 - 123				
Toluene	44.89	5.0	50	0	89.8	76 - 122				
Xylenes, Total	136.3	5.0	150	0	90.9	77 - 128				
Surr: 1,2-Dichloroethane-d4	*47.54*	*0*	*50*	*0*	*95.1*	*76 - 125*				
Surr: 4-Bromofluorobenzene	*48.46*	*0*	*50*	*0*	*96.9*	*80 - 120*				
Surr: Dibromofluoromethane	*47.47*	*0*	*50*	*0*	*94.9*	*80 - 119*				
Surr: Toluene-d8	*47.81*	*0*	*50*	*0*	*95.6*	*81 - 118*				

MS Sample ID: **HS20110659-07MS** Units: **ug/Kg** Analysis Date: **21-Nov-2020 03:38**
Client ID: Run ID: **VOA5_373129** SeqNo: **5844566** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	24.48	4.8	48	0	51.0	70 - 130				S
Ethylbenzene	25.81	4.8	48	0	53.8	70 - 130				S
Toluene	24.82	4.8	48	0	51.7	70 - 130				S
Xylenes, Total	73.55	4.8	144	0	51.1	70 - 130				S
Surr: 1,2-Dichloroethane-d4	*49.67*	*0*	*48*	*0*	*103*	*70 - 126*				
Surr: 4-Bromofluorobenzene	*48.05*	*0*	*48*	*0*	*100*	*70 - 130*				
Surr: Dibromofluoromethane	*46.39*	*0*	*48*	*0*	*96.7*	*70 - 130*				
Surr: Toluene-d8	*46.12*	*0*	*48*	*0*	*96.1*	*70 - 130*				

ALS Houston, US Date: 08-Dec-20

Client: TRC Corporation
Project: Artesia Station West
WorkOrder: HS20110868

QC BATCH REPORT

Batch ID: R373129 (0) **Instrument: VOA5** **Method: VOLATILES BY SW8260C**

MSD Sample ID: **HS20110659-07MSD** Units: **ug/Kg** Analysis Date: **21-Nov-2020 04:02**
Client ID: Run ID: **VOA5_373129** SeqNo: **5844567** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	21.83	4.8	47.5	0	46.0	70 - 130	24.48	11.4	30	S
Ethylbenzene	22.01	4.8	47.5	0	46.3	70 - 130	25.81	15.9	30	S
Toluene	21.5	4.8	47.5	0	45.3	70 - 130	24.82	14.4	30	S
Xylenes, Total	62.22	4.8	142.5	0	43.7	70 - 130	73.55	16.7	30	S
Surr: 1,2-Dichloroethane-d4	*49.84*	*0*	*47.5*	*0*	*105*	*70 - 126*	*49.67*	*0.338*	*30*	
Surr: 4-Bromofluorobenzene	*47.07*	*0*	*47.5*	*0*	*99.1*	*70 - 130*	*48.05*	*2.07*	*30*	
Surr: Dibromofluoromethane	*45.68*	*0*	*47.5*	*0*	*96.2*	*70 - 130*	*46.39*	*1.56*	*30*	
Surr: Toluene-d8	*44.97*	*0*	*47.5*	*0*	*94.7*	*70 - 130*	*46.12*	*2.53*	*30*	

The following samples were analyzed in this batch:

HS20110868-09	HS20110868-10	HS20110868-11	HS20110868-12
HS20110868-13	HS20110868-14	HS20110868-15	HS20110868-16
HS20110868-17	HS20110868-21		

ALS Houston, US Date: 08-Dec-20

Client: TRC Corporation
Project: Artesia Station West
WorkOrder: HS20110868

QC BATCH REPORT

Batch ID: R373157 (0) **Instrument: VOA8** **Method: VOLATILES BY SW8260C**

MBLK Sample ID: **VBLKS2-112220** Units: **ug/Kg** Analysis Date: **22-Nov-2020 21:11**
Client ID: Run ID: **VOA8_373157** SeqNo: **5845514** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	< 5.0	5.0								
Ethylbenzene	< 5.0	5.0								
Toluene	< 5.0	5.0								
Xylenes, Total	< 5.0	5.0								
Surr: 1,2-Dichloroethane-d4	*48.36*	*0*	*50*	*0*	*96.7*	*76 - 125*				
Surr: 4-Bromofluorobenzene	*49.1*	*0*	*50*	*0*	*98.2*	*80 - 120*				
Surr: Dibromofluoromethane	*51.34*	*0*	*50*	*0*	*103*	*80 - 119*				
Surr: Toluene-d8	*50.18*	*0*	*50*	*0*	*100*	*81 - 118*				

LCS Sample ID: **VLCSS2-112220** Units: **ug/Kg** Analysis Date: **22-Nov-2020 20:25**
Client ID: Run ID: **VOA8_373157** SeqNo: **5845513** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	47.16	5.0	50	0	94.3	75 - 124				
Ethylbenzene	47.47	5.0	50	0	94.9	70 - 123				
Toluene	48.29	5.0	50	0	96.6	76 - 122				
Xylenes, Total	142.6	5.0	150	0	95.1	77 - 128				
Surr: 1,2-Dichloroethane-d4	*50.94*	*0*	*50*	*0*	*102*	*76 - 125*				
Surr: 4-Bromofluorobenzene	*51*	*0*	*50*	*0*	*102*	*80 - 120*				
Surr: Dibromofluoromethane	*52.48*	*0*	*50*	*0*	*105*	*80 - 119*				
Surr: Toluene-d8	*49.18*	*0*	*50*	*0*	*98.4*	*81 - 118*				

MS Sample ID: **HS20110868-08MS** Units: **ug/Kg** Analysis Date: **22-Nov-2020 22:19**
Client ID: **SB-1-80-82** Run ID: **VOA8_373157** SeqNo: **5845517** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	47.25	5.0	49.5	1.667	92.1	70 - 130				
Ethylbenzene	47.8	5.0	49.5	0	96.6	70 - 130				
Toluene	47.02	5.0	49.5	1.062	92.8	70 - 130				
Xylenes, Total	141.8	5.0	148.5	0	95.5	70 - 130				
Surr: 1,2-Dichloroethane-d4	*49.94*	*0*	*49.5*	*0*	*101*	*70 - 126*				
Surr: 4-Bromofluorobenzene	*49.91*	*0*	*49.5*	*0*	*101*	*70 - 130*				
Surr: Dibromofluoromethane	*52.11*	*0*	*49.5*	*0*	*105*	*70 - 130*				
Surr: Toluene-d8	*49.5*	*0*	*49.5*	*0*	*100.0*	*70 - 130*				

ALS Houston, US Date: 08-Dec-20

Client: TRC Corporation
Project: Artesia Station West
WorkOrder: HS20110868

QC BATCH REPORT

Batch ID: R373157 (0) **Instrument:** VOA8 **Method:** VOLATILES BY SW8260C

MSD Sample ID: **HS20110868-08MSD** Units: **ug/Kg** Analysis Date: **22-Nov-2020 22:42**
Client ID: **SB-1-80-82** Run ID: **VOA8_373157** SeqNo: **5845518** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Benzene	49.78	5.0	49.5	1.667	97.2	70 - 130	47.25	5.21	30	
Ethylbenzene	47.96	5.0	49.5	0	96.9	70 - 130	47.8	0.335	30	
Toluene	48.58	5.0	49.5	1.062	96.0	70 - 130	47.02	3.27	30	
Xylenes, Total	143.7	5.0	148.5	0	96.7	70 - 130	141.8	1.31	30	
Surr: 1,2-Dichloroethane-d4	*50.45*	*0*	*49.5*	*0*	*102*	*70 - 126*	*49.94*	*1.01*	*30*	
Surr: 4-Bromofluorobenzene	*50.36*	*0*	*49.5*	*0*	*102*	*70 - 130*	*49.91*	*0.893*	*30*	
Surr: Dibromofluoromethane	*53.23*	*0*	*49.5*	*0*	*108*	*70 - 130*	*52.11*	*2.13*	*30*	
Surr: Toluene-d8	*49.68*	*0*	*49.5*	*0*	*100*	*70 - 130*	*49.5*	*0.361*	*30*	

The following samples were analyzed in this batch: HS20110868-07 HS20110868-08

ALS Houston, US Date: 08-Dec-20

Client: TRC Corporation
Project: Artesia Station West
WorkOrder: HS20110868

QC BATCH REPORT

Batch ID: R373160 (0) **Instrument: VOA5** **Method: VOLATILES BY SW8260C**

MBLK Sample ID: **VBLKS1-112120** Units: **ug/Kg** Analysis Date: **22-Nov-2020 13:06**
Client ID: Run ID: **VOA5_373160** SeqNo: **5845583** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	< 5.0	5.0								
Ethylbenzene	< 5.0	5.0								
Toluene	< 5.0	5.0								
Xylenes, Total	< 5.0	5.0								
Surr: 1,2-Dichloroethane-d4	*42.04*	*0*	*50*	*0*	*84.1*	*76 - 125*				
Surr: 4-Bromofluorobenzene	*47.44*	*0*	*50*	*0*	*94.9*	*80 - 120*				
Surr: Dibromofluoromethane	*44.15*	*0*	*50*	*0*	*88.3*	*80 - 119*				
Surr: Toluene-d8	*49.61*	*0*	*50*	*0*	*99.2*	*81 - 118*				

LCS Sample ID: **VLCSS1-112120** Units: **ug/Kg** Analysis Date: **22-Nov-2020 12:18**
Client ID: Run ID: **VOA5_373160** SeqNo: **5845582** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	48.34	5.0	50	0	96.7	75 - 124				
Ethylbenzene	50.49	5.0	50	0	101	70 - 123				
Toluene	49.12	5.0	50	0	98.2	76 - 122				
Xylenes, Total	151.4	5.0	150	0	101	77 - 128				
Surr: 1,2-Dichloroethane-d4	*47.23*	*0*	*50*	*0*	*94.5*	*76 - 125*				
Surr: 4-Bromofluorobenzene	*49.41*	*0*	*50*	*0*	*98.8*	*80 - 120*				
Surr: Dibromofluoromethane	*47.95*	*0*	*50*	*0*	*95.9*	*80 - 119*				
Surr: Toluene-d8	*49.35*	*0*	*50*	*0*	*98.7*	*81 - 118*				

MS Sample ID: **HS20110870-13MS** Units: **ug/Kg** Analysis Date: **22-Nov-2020 13:53**
Client ID: Run ID: **VOA5_373160** SeqNo: **5845585** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	39.53	5.0	49.5	0	79.9	70 - 130				
Ethylbenzene	40.25	5.0	49.5	0	81.3	70 - 130				
Toluene	39.78	5.0	49.5	0	80.4	70 - 130				
Xylenes, Total	118.4	5.0	148.5	0	79.8	70 - 130				
Surr: 1,2-Dichloroethane-d4	*48.2*	*0*	*49.5*	*0*	*97.4*	*70 - 126*				
Surr: 4-Bromofluorobenzene	*48.57*	*0*	*49.5*	*0*	*98.1*	*70 - 130*				
Surr: Dibromofluoromethane	*47.73*	*0*	*49.5*	*0*	*96.4*	*70 - 130*				
Surr: Toluene-d8	*47.73*	*0*	*49.5*	*0*	*96.4*	*70 - 130*				

ALS Houston, US Date: 08-Dec-20

Client: TRC Corporation
Project: Artesia Station West
WorkOrder: HS20110868

QC BATCH REPORT

Batch ID: R373160 (0) **Instrument: VOA5** **Method: VOLATILES BY SW8260C**

MSD Sample ID: **HS20110870-13MSD** Units: **ug/Kg** Analysis Date: **22-Nov-2020 14:17**
Client ID: Run ID: **VOA5_373160** SeqNo: **5845586** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	37.12	5.0	50	0	74.2	70 - 130	39.53	6.3	30	
Ethylbenzene	36.68	5.0	50	0	73.4	70 - 130	40.25	9.29	30	
Toluene	36.48	5.0	50	0	73.0	70 - 130	39.78	8.65	30	
Xylenes, Total	108.6	5.0	150	0	72.4	70 - 130	118.4	8.71	30	
Surr: 1,2-Dichloroethane-d4	*47.44*	*0*	*50*	*0*	*94.9*	*70 - 126*	*48.2*	*1.58*	*30*	
Surr: 4-Bromofluorobenzene	*49.29*	*0*	*50*	*0*	*98.6*	*70 - 130*	*48.57*	*1.47*	*30*	
Surr: Dibromofluoromethane	*46.65*	*0*	*50*	*0*	*93.3*	*70 - 130*	*47.73*	*2.3*	*30*	
Surr: Toluene-d8	*48.95*	*0*	*50*	*0*	*97.9*	*70 - 130*	*47.73*	*2.53*	*30*	

The following samples were analyzed in this batch: HS20110868-18 HS20110868-19

ALS Houston, US Date: 08-Dec-20

Client: TRC Corporation
Project: Artesia Station West
WorkOrder: HS20110868

QC BATCH REPORT

Batch ID: R373192 (0) **Instrument: VOA5** **Method: VOLATILES BY SW8260C**

MBLK Sample ID: **VBLKS1-112320** Units: **ug/Kg** Analysis Date: **23-Nov-2020 09:12**
Client ID: Run ID: **VOA5_373192** SeqNo: **5846174** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	< 5.0	5.0								
Ethylbenzene	< 5.0	5.0								
Toluene	< 5.0	5.0								
Xylenes, Total	< 5.0	5.0								
Surr: 1,2-Dichloroethane-d4	*40.74*	*0*	*50*	*0*	*81.5*	*76 - 125*				
Surr: 4-Bromofluorobenzene	*47.31*	*0*	*50*	*0*	*94.6*	*80 - 120*				
Surr: Dibromofluoromethane	*44.2*	*0*	*50*	*0*	*88.4*	*80 - 119*				
Surr: Toluene-d8	*49.83*	*0*	*50*	*0*	*99.7*	*81 - 118*				

LCS Sample ID: **VLCSS1-112320** Units: **ug/Kg** Analysis Date: **23-Nov-2020 08:24**
Client ID: Run ID: **VOA5_373192** SeqNo: **5846173** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	52.28	5.0	50	0	105	75 - 124				
Ethylbenzene	55.46	5.0	50	0	111	70 - 123				
Toluene	52.77	5.0	50	0	106	76 - 122				
Xylenes, Total	163.9	5.0	150	0	109	77 - 128				
Surr: 1,2-Dichloroethane-d4	*48.95*	*0*	*50*	*0*	*97.9*	*76 - 125*				
Surr: 4-Bromofluorobenzene	*49.18*	*0*	*50*	*0*	*98.4*	*80 - 120*				
Surr: Dibromofluoromethane	*48.48*	*0*	*50*	*0*	*97.0*	*80 - 119*				
Surr: Toluene-d8	*48.32*	*0*	*50*	*0*	*96.6*	*81 - 118*				

MS Sample ID: **HS20110769-02MS** Units: **ug/Kg** Analysis Date: **23-Nov-2020 14:23**
Client ID: Run ID: **VOA5_373192** SeqNo: **5846992** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	42.4	4.9	49	0	86.5	70 - 130				
Ethylbenzene	43.39	4.9	49	0	88.5	70 - 130				
Toluene	42.07	4.9	49	0	85.8	70 - 130				
Xylenes, Total	126.2	4.9	147	0	85.8	70 - 130				
Surr: 1,2-Dichloroethane-d4	*46.7*	*0*	*49*	*0*	*95.3*	*70 - 126*				
Surr: 4-Bromofluorobenzene	*47.45*	*0*	*49*	*0*	*96.8*	*70 - 130*				
Surr: Dibromofluoromethane	*46.2*	*0*	*49*	*0*	*94.3*	*70 - 130*				
Surr: Toluene-d8	*46.84*	*0*	*49*	*0*	*95.6*	*70 - 130*				

ALS Houston, US Date: 08-Dec-20

Client: TRC Corporation
Project: Artesia Station West
WorkOrder: HS20110868

QC BATCH REPORT

Batch ID: R373192 (0) **Instrument: VOA5** **Method: VOLATILES BY SW8260C**

MSD Sample ID: **HS20110769-02MSD** Units: **ug/Kg** Analysis Date: **23-Nov-2020 14:47**
Client ID: Run ID: **VOA5_373192** SeqNo: **5846993** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Benzene	44.26	4.9	49	0	90.3	70 - 130	42.4	4.29	30	
Ethylbenzene	44.62	4.9	49	0	91.1	70 - 130	43.39	2.81	30	
Toluene	44.82	4.9	49	0	91.5	70 - 130	42.07	6.35	30	
Xylenes, Total	132.6	4.9	147	0	90.2	70 - 130	126.2	4.97	30	
Surr: 1,2-Dichloroethane-d4	*47.25*	*0*	*49*	*0*	*96.4*	*70 - 126*	*46.7*	*1.17*	*30*	
Surr: 4-Bromofluorobenzene	*48.68*	*0*	*49*	*0*	*99.3*	*70 - 130*	*47.45*	*2.56*	*30*	
Surr: Dibromofluoromethane	*47.38*	*0*	*49*	*0*	*96.7*	*70 - 130*	*46.2*	*2.53*	*30*	
Surr: Toluene-d8	*48.28*	*0*	*49*	*0*	*98.5*	*70 - 130*	*46.84*	*3.04*	*30*	

The following samples were analyzed in this batch: HS20110868-03 HS20110868-04 HS20110868-05

ALS Houston, US Date: 08-Dec-20

Client: TRC Corporation
Project: Artesia Station West
WorkOrder: HS20110868

QC BATCH REPORT

Batch ID: R373397 (0) **Instrument: VOA9** **Method: VOLATILES BY SW8260C**

MBLK Sample ID: **VBLKM-201124** Units: **ug/Kg** Analysis Date: **24-Nov-2020 13:42**
Client ID: Run ID: **VOA9_373397** SeqNo: **5851359** PrepDate: DF: **50**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethylbenzene	< 250	250								
Toluene	< 250	250								
Xylenes, Total	< 250	250								
Surr: 1,2-Dichloroethane-d4	*2522*	*0*	*2500*	*0*	*101*	*76 - 125*				
Surr: 4-Bromofluorobenzene	*2457*	*0*	*2500*	*0*	*98.3*	*80 - 120*				
Surr: Dibromofluoromethane	*2428*	*0*	*2500*	*0*	*97.1*	*80 - 119*				
Surr: Toluene-d8	*2530*	*0*	*2500*	*0*	*101*	*81 - 118*				

LCS Sample ID: **VLCSW-201124** Units: **ug/L** Analysis Date: **24-Nov-2020 13:21**
Client ID: Run ID: **VOA9_373397** SeqNo: **5851313** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethylbenzene	19.39	5.0	20	0	97.0	77 - 117				
Toluene	18.91	5.0	20	0	94.6	77 - 118				
Xylenes, Total	58.75	5.0	60	0	97.9	75 - 122				
Surr: 1,2-Dichloroethane-d4	*51.2*	*0*	*50*	*0*	*102*	*70 - 130*				
Surr: 4-Bromofluorobenzene	*50.04*	*0*	*50*	*0*	*100*	*82 - 115*				
Surr: Dibromofluoromethane	*50.17*	*0*	*50*	*0*	*100*	*73 - 126*				
Surr: Toluene-d8	*50.45*	*0*	*50*	*0*	*101*	*81 - 120*				

MS Sample ID: **HS20110770-09MS** Units: **ug/L** Analysis Date: **24-Nov-2020 15:50**
Client ID: Run ID: **VOA9_373397** SeqNo: **5851315** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethylbenzene	86.64	5.0	20	60.12	133	70 - 124				S
Toluene	23.91	5.0	20	2.37	108	70 - 123				
Xylenes, Total	75.67	5.0	60	3.434	120	70 - 130				
Surr: 1,2-Dichloroethane-d4	*50.83*	*0*	*50*	*0*	*102*	*70 - 126*				
Surr: 4-Bromofluorobenzene	*50.15*	*0*	*50*	*0*	*100*	*82 - 124*				
Surr: Dibromofluoromethane	*48.52*	*0*	*50*	*0*	*97.0*	*77 - 123*				
Surr: Toluene-d8	*50.34*	*0*	*50*	*0*	*101*	*82 - 127*				

ALS Houston, US Date: 08-Dec-20

Client: TRC Corporation
Project: Artesia Station West
WorkOrder: HS20110868

QC BATCH REPORT

Batch ID: R373397 (0) **Instrument: VOA9** **Method: VOLATILES BY SW8260C**

MSD Sample ID: **HS20110770-09MSD** Units: **ug/L** Analysis Date: **24-Nov-2020 16:11**
Client ID: Run ID: **VOA9_373397** SeqNo: **5851316** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethylbenzene	82.86	5.0	20	60.12	114	70 - 124	86.64	4.45	20	
Toluene	23.17	5.0	20	2.37	104	70 - 123	23.91	3.12	20	
Xylenes, Total	72.17	5.0	60	3.434	115	70 - 130	75.67	4.74	20	
Surr: 1,2-Dichloroethane-d4	*50.59*	*0*	*50*	*0*	*101*	*70 - 126*	*50.83*	*0.476*	*20*	
Surr: 4-Bromofluorobenzene	*50.72*	*0*	*50*	*0*	*101*	*82 - 124*	*50.15*	*1.14*	*20*	
Surr: Dibromofluoromethane	*49.93*	*0*	*50*	*0*	*99.9*	*77 - 123*	*48.52*	*2.88*	*20*	
Surr: Toluene-d8	*50.15*	*0*	*50*	*0*	*100*	*82 - 127*	*50.34*	*0.392*	*20*	

The following samples were analyzed in this batch: HS20110868-01 HS20110868-07 HS20110868-21

ALS Houston, US Date: 08-Dec-20

Client: TRC Corporation
Project: Artesia Station West
WorkOrder: HS20110868

QC BATCH REPORT

Batch ID: R373496 (0) **Instrument:** VOA6 **Method:** VOLATILES - SW8260C

MBLK Sample ID: **VBLKW-201126** Units: **ug/L** Analysis Date: **26-Nov-2020 12:20**
Client ID: Run ID: **VOA6_373496** SeqNo: **5853410** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	< 5.0	5.0								
Ethylbenzene	< 5.0	5.0								
m,p-Xylene	< 10	10								
o-Xylene	< 5.0	5.0								
Toluene	< 5.0	5.0								
Xylenes, Total	< 5.0	5.0								
Surr: 1,2-Dichloroethane-d4	*42.57*	*0*	*50*	*0*	*85.1*	*70 - 130*				
Surr: 4-Bromofluorobenzene	*42.83*	*0*	*50*	*0*	*85.7*	*82 - 115*				
Surr: Dibromofluoromethane	*44.47*	*0*	*50*	*0*	*88.9*	*73 - 126*				
Surr: Toluene-d8	*50.49*	*0*	*50*	*0*	*101*	*81 - 120*				

LCS Sample ID: **VLCSW-201126** Units: **ug/L** Analysis Date: **26-Nov-2020 11:17**
Client ID: Run ID: **VOA6_373496** SeqNo: **5853409** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	20.3	5.0	20	0	101	74 - 120				
Ethylbenzene	17.69	5.0	20	0	88.4	77 - 117				
m,p-Xylene	37.18	10	40	0	92.9	77 - 122				
o-Xylene	18.95	5.0	20	0	94.8	75 - 119				
Toluene	18.14	5.0	20	0	90.7	77 - 118				
Xylenes, Total	56.13	5.0	60	0	93.6	75 - 122				
Surr: 1,2-Dichloroethane-d4	*50.67*	*0*	*50*	*0*	*101*	*70 - 130*				
Surr: 4-Bromofluorobenzene	*48.39*	*0*	*50*	*0*	*96.8*	*82 - 115*				
Surr: Dibromofluoromethane	*50.64*	*0*	*50*	*0*	*101*	*73 - 126*				
Surr: Toluene-d8	*48.99*	*0*	*50*	*0*	*98.0*	*81 - 120*				

ALS Houston, US Date: 08-Dec-20

Client: TRC Corporation
Project: Artesia Station West
WorkOrder: HS20110868

QC BATCH REPORT

Batch ID: R373496 (0) **Instrument: VOA6** **Method: VOLATILES - SW8260C**

MS Sample ID: **HS20110813-11MS** Units: **ug/L** Analysis Date: **26-Nov-2020 14:06**
Client ID: Run ID: **VOA6_373496** SeqNo: **5853412** PrepDate: DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	83.32	25	100	0	83.3	70 - 127				
Ethylbenzene	96.07	25	100	0	96.1	70 - 124				
m,p-Xylene	182.9	50	200	0	91.4	70 - 130				
o-Xylene	93.67	25	100	0	93.7	70 - 124				
Toluene	91.03	25	100	0	91.0	70 - 123				
Xylenes, Total	276.5	25	300	0	92.2	70 - 130				
Surr: 1,2-Dichloroethane-d4	*209*	*0*	*250*	*0*	*83.6*	*70 - 126*				
Surr: 4-Bromofluorobenzene	*237.9*	*0*	*250*	*0*	*95.2*	*82 - 124*				
Surr: Dibromofluoromethane	*224.6*	*0*	*250*	*0*	*89.9*	*77 - 123*				
Surr: Toluene-d8	*254.3*	*0*	*250*	*0*	*102*	*82 - 127*				

MSD Sample ID: **HS20110813-11MSD** Units: **ug/L** Analysis Date: **26-Nov-2020 14:27**
Client ID: Run ID: **VOA6_373496** SeqNo: **5853413** PrepDate: DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	81.45	25	100	0	81.5	70 - 127	83.32	2.26	20	
Ethylbenzene	85.36	25	100	0	85.4	70 - 124	96.07	11.8	20	
m,p-Xylene	173.4	50	200	0	86.7	70 - 130	182.9	5.3	20	
o-Xylene	86.4	25	100	0	86.4	70 - 124	93.67	8.07	20	
Toluene	84.8	25	100	0	84.8	70 - 123	91.03	7.09	20	
Xylenes, Total	259.8	25	300	0	86.6	70 - 130	276.5	6.23	20	
Surr: 1,2-Dichloroethane-d4	*212*	*0*	*250*	*0*	*84.8*	*70 - 126*	*209*	*1.45*	*20*	
Surr: 4-Bromofluorobenzene	*231.8*	*0*	*250*	*0*	*92.7*	*82 - 124*	*237.9*	*2.61*	*20*	
Surr: Dibromofluoromethane	*224.7*	*0*	*250*	*0*	*89.9*	*77 - 123*	*224.6*	*0.0441*	*20*	
Surr: Toluene-d8	*249*	*0*	*250*	*0*	*99.6*	*82 - 127*	*254.3*	*2.11*	*20*	

The following samples were analyzed in this batch: HS20110868-20

ALS Houston, US Date: 08-Dec-20

Client: TRC Corporation
Project: Artesia Station West
WorkOrder: HS20110868

QC BATCH REPORT

Batch ID: R373497 (0) **Instrument: VOA6** **Method: VOLATILES BY SW8260C**

MBLK Sample ID: **VBLKM-201126** Units: **ug/Kg** Analysis Date: **26-Nov-2020 11:59**
Client ID: Run ID: **VOA6_373497** SeqNo: **5853405** PrepDate: DF: **50**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethylbenzene	< 250	250								
Toluene	< 250	250								
Xylenes, Total	< 250	250								
Surr: 1,2-Dichloroethane-d4	*2180*	*0*	*2500*	*0*	*87.2*	*76 - 125*				
Surr: 4-Bromofluorobenzene	*2256*	*0*	*2500*	*0*	*90.2*	*80 - 120*				
Surr: Dibromofluoromethane	*2255*	*0*	*2500*	*0*	*90.2*	*80 - 119*				
Surr: Toluene-d8	*2498*	*0*	*2500*	*0*	*99.9*	*81 - 118*				

LCS Sample ID: **VLCSW-201126** Units: **ug/L** Analysis Date: **26-Nov-2020 11:17**
Client ID: Run ID: **VOA6_373497** SeqNo: **5853386** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethylbenzene	17.69	5.0	20	0	88.4	77 - 117				
Toluene	18.14	5.0	20	0	90.7	77 - 118				
Xylenes, Total	56.13	5.0	60	0	93.6	75 - 122				
Surr: 1,2-Dichloroethane-d4	*50.67*	*0*	*50*	*0*	*101*	*70 - 130*				
Surr: 4-Bromofluorobenzene	*48.39*	*0*	*50*	*0*	*96.8*	*82 - 115*				
Surr: Dibromofluoromethane	*50.64*	*0*	*50*	*0*	*101*	*73 - 126*				
Surr: Toluene-d8	*48.99*	*0*	*50*	*0*	*98.0*	*81 - 120*				

MS Sample ID: **HS20110813-11MS** Units: **ug/L** Analysis Date: **26-Nov-2020 14:06**
Client ID: Run ID: **VOA6_373497** SeqNo: **5853388** PrepDate: DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethylbenzene	96.07	25	100	0	96.1	70 - 124				
Toluene	91.03	25	100	0	91.0	70 - 123				
Xylenes, Total	276.5	25	300	0	92.2	70 - 130				
Surr: 1,2-Dichloroethane-d4	*209*	*0*	*250*	*0*	*83.6*	*70 - 126*				
Surr: 4-Bromofluorobenzene	*237.9*	*0*	*250*	*0*	*95.2*	*82 - 124*				
Surr: Dibromofluoromethane	*224.6*	*0*	*250*	*0*	*89.9*	*77 - 123*				
Surr: Toluene-d8	*254.3*	*0*	*250*	*0*	*102*	*82 - 127*				

ALS Houston, US Date: 08-Dec-20

Client: TRC Corporation
Project: Artesia Station West
WorkOrder: HS20110868

QC BATCH REPORT

Batch ID: R373497 (0) **Instrument: VOA6** **Method: VOLATILES BY SW8260C**

MSD Sample ID: **HS20110813-11MSD** Units: **ug/L** Analysis Date: **26-Nov-2020 14:27**
Client ID: Run ID: **VOA6_373497** SeqNo: **5853389** PrepDate: DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Ethylbenzene	85.36	25	100	0	85.4	70 - 124	96.07	11.8	20	
Toluene	84.8	25	100	0	84.8	70 - 123	91.03	7.09	20	
Xylenes, Total	259.8	25	300	0	86.6	70 - 130	276.5	6.23	20	
Surr: 1,2-Dichloroethane-d4	*212*	*0*	*250*	*0*	*84.8*	*70 - 126*	*209*	*1.45*	*20*	
Surr: 4-Bromofluorobenzene	*231.8*	*0*	*250*	*0*	*92.7*	*82 - 124*	*237.9*	*2.61*	*20*	
Surr: Dibromofluoromethane	*224.7*	*0*	*250*	*0*	*89.9*	*77 - 123*	*224.6*	*0.0441*	*20*	
Surr: Toluene-d8	*249*	*0*	*250*	*0*	*99.6*	*82 - 127*	*254.3*	*2.11*	*20*	

The following samples were analyzed in this batch: HS20110868-14 HS20110868-15

ALS Houston, US Date: 08-Dec-20

Client: TRC Corporation
Project: Artesia Station West
WorkOrder: HS20110868

QC BATCH REPORT

Batch ID: 160056 (0) **Instrument: ICS2100** **Method: ANIONS BY E300.0**

MBLK Sample ID: **MBLK-160056** Units: **mg/Kg** Analysis Date: **25-Nov-2020 08:42**
Client ID: Run ID: **ICS2100_373419** SeqNo: **5851717** PrepDate: **24-Nov-2020** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	< 5.00	5.00								

LCS Sample ID: **LCS-160056** Units: **mg/Kg** Analysis Date: **25-Nov-2020 09:00**
Client ID: Run ID: **ICS2100_373419** SeqNo: **5851718** PrepDate: **24-Nov-2020** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	199.6	5.00	200	0	99.8	90 - 110				

MS Sample ID: **HS20111195-01MS** Units: **mg/Kg** Analysis Date: **25-Nov-2020 02:22**
Client ID: Run ID: **ICS2100_373419** SeqNo: **5851711** PrepDate: **24-Nov-2020** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	954.2	4.95	98.98	826.9	129	75 - 125				SO

MS Sample ID: **HS20110868-08MS** Units: **mg/Kg** Analysis Date: **26-Nov-2020 04:45**
Client ID: **SB-1-80-82** Run ID: **ICS2100_373559** SeqNo: **5855349** PrepDate: **24-Nov-2020** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	117.5	4.91	98.16	24	95.3	75 - 125				

MSD Sample ID: **HS20111195-01MSD** Units: **mg/Kg** Analysis Date: **25-Nov-2020 02:40**
Client ID: Run ID: **ICS2100_373419** SeqNo: **5851712** PrepDate: **24-Nov-2020** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	853.2	4.88	97.66	826.9	26.9	75 - 125	954.2	11.2	20	SO

MSD Sample ID: **HS20110868-08MSD** Units: **mg/Kg** Analysis Date: **26-Nov-2020 05:03**
Client ID: **SB-1-80-82** Run ID: **ICS2100_373559** SeqNo: **5855350** PrepDate: **24-Nov-2020** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	124.4	4.91	98.29	24	102	75 - 125	117.5	5.68	20	

The following samples were analyzed in this batch:

HS20110868-01	HS20110868-02	HS20110868-03	HS20110868-04
HS20110868-05	HS20110868-07	HS20110868-08	HS20110868-09
HS20110868-10	HS20110868-11	HS20110868-12	HS20110868-13
HS20110868-14	HS20110868-15	HS20110868-16	HS20110868-17
HS20110868-18			

ALS Houston, US Date: 08-Dec-20

Client: TRC Corporation
Project: Artesia Station West
WorkOrder: HS20110868

QC BATCH REPORT

Batch ID: 160071 (0) **Instrument: ICS2100** **Method: ANIONS BY E300.0**

MBLK Sample ID: **MBLK-160071** Units: **mg/Kg** Analysis Date: **01-Dec-2020 16:53**
Client ID: Run ID: **ICS2100_373780** SeqNo: **5859999** PrepDate: **24-Nov-2020** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	< 5.00	5.00								

LCS Sample ID: **LCS-160071** Units: **mg/Kg** Analysis Date: **01-Dec-2020 17:09**
Client ID: Run ID: **ICS2100_373780** SeqNo: **5860000** PrepDate: **24-Nov-2020** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	202.4	5.00	200	0	101	90 - 110				

MS Sample ID: **HS20110870-14MS** Units: **mg/Kg** Analysis Date: **02-Dec-2020 11:12**
Client ID: Run ID: **ICS2100_373780** SeqNo: **5860027** PrepDate: **24-Nov-2020** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	163.1	4.98	99.69	56.35	107	75 - 125				

MS Sample ID: **HS20110870-05MS** Units: **mg/Kg** Analysis Date: **02-Dec-2020 06:58**
Client ID: Run ID: **ICS2100_373780** SeqNo: **5860014** PrepDate: **24-Nov-2020** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	709.9	4.98	99.53	676.5	33.5	75 - 125				SO

MSD Sample ID: **HS20110870-14MSD** Units: **mg/Kg** Analysis Date: **02-Dec-2020 11:30**
Client ID: Run ID: **ICS2100_373780** SeqNo: **5860028** PrepDate: **24-Nov-2020** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	148.7	4.98	99.63	56.35	92.7	75 - 125	163.1	9.24	20	

MSD Sample ID: **HS20110870-05MSD** Units: **mg/Kg** Analysis Date: **02-Dec-2020 07:16**
Client ID: Run ID: **ICS2100_373780** SeqNo: **5860015** PrepDate: **24-Nov-2020** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	842.9	4.99	99.84	676.5	167	75 - 125	709.9	17.1	20	SO

The following samples were analyzed in this batch: HS20110868-19 HS20110868-21

ALS Houston, US Date: 08-Dec-20

Client: TRC Corporation
Project: Artesia Station West
WorkOrder: HS20110868

QC BATCH REPORT

Batch ID: R373336 (0) **Instrument:** Balance1 **Method:** MOISTURE - ASTM D2216

DUP Sample ID: **HS20110620-03DUP** Units: **wt%** Analysis Date: **23-Nov-2020 10:16**
Client ID: Run ID: **Balance1_373336** SeqNo: **5849545** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Percent Moisture	17.6	0.0100					16.4	7.06	20	

The following samples were analyzed in this batch:

HS20110868-01	HS20110868-02	HS20110868-03	HS20110868-04
HS20110868-05	HS20110868-07	HS20110868-08	HS20110868-09
HS20110868-10	HS20110868-11	HS20110868-12	HS20110868-13
HS20110868-14	HS20110868-15	HS20110868-16	HS20110868-17
HS20110868-18	HS20110868-19		

ALS Houston, US Date: 08-Dec-20

Client: TRC Corporation
Project: Artesia Station West
WorkOrder: HS20110868

QC BATCH REPORT

Batch ID: R373339 (0) **Instrument:** Balance1 **Method:** MOISTURE - ASTM D2216

DUP Sample ID: **HS20110882-03DUP** Units: **wt%** Analysis Date: **23-Nov-2020 18:00**
Client ID: Run ID: **Balance1_373339** SeqNo: **5849621** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Percent Moisture	21.5	0.0100					21.8	1.39	20	

The following samples were analyzed in this batch: HS20110868-21

ALS Houston, US Date: 08-Dec-20

Client: TRC Corporation
Project: Artesia Station West
WorkOrder: **HS20110868**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
mg/Kg	Milligrams per Kilogram
mg/L	Milligrams per Liter

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	20-030-0	26-Mar-2021
California	2919, 2020-2021	30-Apr-2021
Dept of Defense	PJLA L20-507	22-Dec-2021
Florida	E87611-30-07/01/2020	30-Jun-2021
Illinois	2000322020-4	09-May-2021
Kansas	E-10352 2020-2021	31-Jul-2021
Kentucky	123043, 2020-2021	30-Apr-2021
Louisiana	03087, 2020-2021	30-Jun-2021
North Carolina	624-2020	31-Dec-2020
North Dakota	R-193 2020-2021	30-Apr-2021
Texas	T104704231-20-26	30-Apr-2021

ALS Houston, US Date: 08-Dec-20

Sample Receipt Checklist

Work Order ID: HS20110868 **Date/Time Received:** 17-Nov-2020 09:40

Client Name: TRC-AUS **Received by:** Jared R. Makan

Completed By:	/S/ Pablo Marinez	17-Nov-2020 16:36	**Reviewed by:**	/S/ RJ Modashia	18-Nov-2020 09:11
	eSignature	Date/Time		eSignature	Date/Time

Matrices: **SOIL/WATER** Carrier name: **FedEx**

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	3 Page(s)
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	COC IDs:233488/233489/233485
Samplers name present on COC?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☐	No ☑	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	

Temperature(s)/Thermometer(s):	2.4C UC/C	IR 31
Cooler(s)/Kit(s):	46534	
Date/Time sample(s) sent to storage:	11/17/20 17:00	

Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:			

Login Notes: SB-1-30-32 - Collection Time does not match, logged per CoC
CoC = 10:45 Label = 11:45
HA-North-0-2, HA-West-0-1, HA-South-0-1, HA-East-0-1 & TB-11132020-2 - Collection Date does not match, logged per Sample Label
CoC = 12/13/20 Label = 11/13/20

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

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Fort Collins, CO +1 970 490 1511
Holland, MI +1 616 399 6070

Chain of Custody Form

Page 1 of 3

COC ID: 233488

HS20110868

WV

TRC Corporation
Artesia Station West

ALS Project Manager:

Customer Information		Project Information	
Purchase Order		Project Name	Artesia Station West
Work Order		Project Number	
Company Name	TRC Corporation	Bill To Company	TRC Corporation
Send Report To	Richard (RD) Varnell	Invoice Attn	TRC-AP
Address	505 East Huntland Drive Suite 250	Address	505 East Huntland Drive Suite 250
City/State/Zip	Austin, TX 78752	City/State/Zip	Austin TX 78752
Phone	(512) 329-6080	Phone	(512) 329-6080
Fax	(512) 329-8750	Fax	(512) 329-8750
e-Mail Address	RVarnell@trccompanies.com	e-Mail Address	apinvoiceapproval@trcsolutions.com

A	8260 (BTEX)
B	8015 (DRO/ORO)
C	8015 (GRO)
D	300 (Chloride)
E	TDS_W 2540C (TDS)
F	MOIST_SW3550 (Percent Moisture)
G	Full TCLP (TCLP VOC, SVOC, RCRA 8 Metals)
H	RCRA Chararcteristics (RCI Profile)
I	TX1005_S_REV3 (TPH)
J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	SB-1-20-22	11.10.20	1015	soil	none	2	X	X	X	X		X					
2	SB-1-30-32	11.10.20	1045	soil	none	2	X	X	X	X		X					
3	SB-1-40-42	11.10.20	1115	soil	none	2	X	X	X	X		X					
4	SB-1-50-52	11.10.20	1145	soil	none	2	X	X	X	X		X					
5	SB-1-60-62	11.10.20	1430	soil	none	2	X	X	X	X		X					
6	SB-1-70-72	11.10.20	1530	soil	none	2	X	X	X	X		X					X
7	SB-1-75-77	11.10.20	1600	soil	none	2	X	X	X	X		X					
8	SB-1-80-82	11.11.20	0800	soil	none	2	X	X	X	X		X					
9	SB-1-90-92	11.11.20	1100	soil	none	2	X	X	X	X		X					
10	SB-1-95-97	11.11.20	1130	soil	none	2	X	X	X	X		X					

Sampler(s) Please Print & Sign: Jared Stoffel

Shipment Method: FedEx

Required Turnaround Time: (Check Box) [X] STD 10 Wk Days [ ] 5 Wk Days [ ] 2 Wk Days [ ] 24 Hour [ ] Other

Results Due Date: * Samples close to hold

Relinquished by:	Date:	Time:	Received by:
	11/16/20	1200	
Relinquished by:	Date:	Time:	Received by (Laboratory):
			SM PM 11-17-20 9:40
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):

Notes: Artesia Station West

Cooler ID	Cooler Temp.
46534	2.4C

QC Package: (Check One Box Below)

- [X] Level II Std QC
- [ ] Level III Std QC/Raw Data
- [ ] Level IV SW846/CLP
- [ ] Other
- [ ] TRRP Checklist
- [ ] TRRP Level IV

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

IR31 CFO

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

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Holland, MI +1 616 399 6070

Chain of Custody Form

Page 2 of 3

COC ID: 233489

HS20110868

TRC Corporation
Artesia Station West

ALS Project Manager:

Customer Information		Project Information	
Purchase Order		Project Name	Artesia Station West
Work Order		Project Number	
Company Name	TRC Corporation	Bill To Company	TRC Corporation
Send Report To	Richard (RD) Varnell	Invoice Attn	TRC-AP
Address	505 East Huntland Drive Suite 250	Address	505 East Huntland Drive Suite 250
City/State/Zip	Austin, TX 78752	City/State/Zip	Austin TX 78752
Phone	(512) 329-6080	Phone	(512) 329-6080
Fax	(512) 329-8750	Fax	(512) 329-8750
e-Mail Address	RVarnell@trccompanies.com	e-Mail Address	apinvoiceapproval@trcsolutions.com

A	8260 (BTEX)
B	8015 (DRO/ORO)
C	8015 (GRO)
D	300 (Chloride)
E	TDS_W 2540C (TDS)
F	MOIST_SW3550 (Percent Moisture)
G	Full TCLP (TCLP VOC, SVOC, RCRA 8 Metals)
H	RCRA Charaercteristics (RCI Profile)
I	TX1005_S_REV3 (TPH)
J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	SB-1-100-102	11.11.20	1200	soil	none	2	x	x	x	x		x					
2	SB-2-40-42	11.11.20	1615	soil	none	2	x	x	x	x		x					
3	SB-2-60-62	11.12.20	0915	soil	none	2	x	x	x	x		x					
4	SB-3-0-2	11.12.20	1330	soil	none	2	x	x	x	x		x					
5	SB-3-20-22	11.12.20	1420	soil	none	2	x	x	x	x		x					
6	HA-North-0-2	12.13.20	1515	soil	none	2	x	x	x	x		x					
7	HA-West-0-1	12.13.20	1525	soil	none	2	x	x	x	x		x					
8	HA-South-0-1	12.13.20	1535	soil	none	2	x	x	x	x		x					
9	HA-East-0-1	12.13.20	1545	soil	none	2	x	x	x	x		x					
10	TB-11132020-2	12.13.20	1700	Water	HCl	2	x										

Sampler(s) Please Print & Sign: Jacob Stoffel

Shipment Method: FedEx

Required Turnaround Time: (Check Box) [X] STD 10 Wk Days [ ] 5 Wk Days [ ] 2 Wk Days [ ] 24 Hour [ ] Other

Results Due Date: *Samples close to hold

Relinquished by:	Date: 12/16/20	Time: 1200	Received by:
Relinquished by:	Date:	Time:	Received by (Laboratory): JM 12/17/20 9:40
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):

Notes: Artesia Station West

Cooler ID	Cooler Temp.
46534	

QC Package: (Check One Box Below)

- [X] Level II Std QC
- [ ] Level III Std QC/Raw Date
- [ ] Level IV SW846/CLP
- [ ] Other
- [ ] TRRP Checklist
- [ ] TRRP Level IV

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

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Chain of Custody Form

Page 3 of 3

COC ID: 233485

HS20110868

WV

TRC Corporation
Artesia Station West

Customer Information		Project Information		ALS Project Manager:	
Purchase Order		Project Name	Artesia Station West	A	8260 (BTEX)
Work Order		Project Number		B	8015 (DRO/ORO)
Company Name	TRC Corporation	Bill To Company	TRC Corporation	C	8015 (GRO)
Send Report To	Richard (RD) Varnell	Invoice Attn	TRC-AP	D	300 (Chloride)
Address	505 East Huntland Drive Suite 250	Address	505 East Huntland Drive Suite 250	E	TDS_W 2540C (TDS)
				F	MOIST_SW3550 (Percent Moisture)
City/State/Zip	Austin, TX 78752	City/State/Zip	Austin TX 78752	G	Full TCLP (TCLP VOC, SVOC, RCRA 8 Metals)
Phone	(512) 329-6080	Phone	(512) 329-6080	H	RCRA Chararcteristics (RCI Profile)
Fax	(512) 329-8750	Fax	(512) 329-8750	I	TX1005_S_REV3 (TPH)
e-Mail Address	RVarnell@trccompanies.com	e-Mail Address	apinvoiceapproval@trcsolutions.com	J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	Duplicate - 1	11.10.20	—	Soil	none	2	X	X	X	X		X					
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: Jared Stoffel

Shipment Method: FedEx

Required Turnaround Time: (Check Box) [X] STD 10 Wk Days [ ] 5 Wk Days [ ] 2 Wk Days [ ] 24 Hour [ ] Other

Results Due Date: * Samples close to hold

Relinquished by:	Date: 11/16/20	Time: 1200	Received by:	
Relinquished by:	Date:	Time:	Received by (Laboratory): SM PM 11-17-20 9:40	
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	

Notes: Artesia Station West

Cooler ID	Cooler Temp.
46534	

QC Package: (Check One Box Below)

- [X] Level II Std QC
- [ ] Level III Std QC/Raw Date
- [ ] Level IV SW846/CLP
- [ ] Other
- [ ] TRRP Checklist
- [ ] TRRP Level IV

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note:
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2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

ALS
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel: +1 281 530 5656
Fax: +1 281 530 5887

CUSTODY SEAL
Date:
Time:
Signature:
Company:

FedEx
TRK# 0221 1891 8881 7576
TUE – 17 NOV 10:30A
PRIORITY OVERNIGHT
43 SGRA 4634
77099
TX–US IAH

Analytical Data Review Checklist

Site: Tank 970 / Artesia Station West Location: Depco Road, Eddy County, NM Client Name: HEP-Operating, LP Project #: 390691	Laboratory: ALS Lab Report #: HS20110870	QA Reviewer: R Varnell Date: 12/31/2020
Analytical Method(s): EPA Methods 8015M, 8260, E300, and 3550.	Matrices Sampled: Soil, water (trip blank)	Sample Collection Date(s): 11/10-13/2020
Sampling Objective(s): Delineate impacted media		
Sample IDs: (list IDs or attach COC): Please see attached COC.		

	Review Item or Question	Y	N	NA	Comments[1]
Sample Traceability / Chain of Custody					
1	Were COC forms appropriately completed?	X			
2	Did the laboratory report correct sample IDs?	X			
3	Do the laboratory reported sample collection dates and times agree with the COC forms?	X			
Sample Preservation and Integrity					
4	Did samples arrive at the laboratory appropriately preserved?	X			EnCore sample collection not required.
	Was the cooler temperature between 0-6°C?	X			
	Was acid used for preservation when required (e.g., aqueous VOC and metals samples)?			X	
	Were soil/sediment VOC samples preserved in the field or collected in EnCore® samplers?			X	
5	Were samples received by the laboratory in an acceptable condition (i.e., no breakages, leaks, etc.)?	X			
6	Were any issues noted by the laboratory upon receipt?		X		
7	Were sample preparation and analysis holding time requirements met?	X			
8	AIR ONLY: Were canisters received with an acceptable vacuum? Were the RPDs between the initial and final canister flow controller calibrations <20?			X	
Data Completeness					
9	Are results reported for all analytical methods requested?	X			
10	Are results reported for all samples submitted for analysis?	X			
11	Were the requested analytical methods used?	X			
12	Are results reported for all target analytes, but no additional analytes?	X			
13	Were soil/sediment results reported on a dry weight basis?	X			

Analytical Data Review Checklist

	Review Item or Question	Y	N	NA	Comments[1]
14	If requested, were detected results below the reporting limit (i.e., "J" values) reported?	X			
15	Did we receive the required deliverables (e.g., EDD, Level 4 data, laboratory certification, etc.) in the correct formats?	X			
Sensitivity					
16	Do the reporting limits meet the project specifications (e.g., QAPP or Work Plan)?	X			
17	Were dilutions performed? If so, note sample(s) and parameter(s) affected and the dilution factor(s).	X			Dilutions on multiple samples due to high contaminant concentrations.
18	Did the laboratory provide an adequate explanation as to why dilutions were performed?	X			High Contaminant Concentration.
QC Results					
19	Were any target analytes detected in the method blanks? If yes, list contaminants, concentrations detected and associated samples.		X		
20	Does each analytical or preparation batch have its own method blank?	X			
21	Were any target analytes detected in the field blank(s) (e.g., trip blanks, equipment blanks)? If yes, list contaminants, concentrations detected and associated samples (or attach field blank results).		X		
22	Are there any potential false positive results based on questions 19 and/or 21? If concentrations of contaminants in associated samples are ≤10x the blank concentration for common laboratory contaminants and ≤5x the blank concentration for other contaminants, sample result is most likely a false positive. [2] Common blank contaminants: methylene chloride, acetone, 2-butanone, phthalates.		X		
23	Are LCS/LCSD recoveries within QC limits[3]? If no, list analytes affected, the LCS/LCSD recoveries and the affected samples.	X			
24	Does each analytical or preparation batch have its own LCS?	X			
25	Are LCS/LCSD RPDs within QC limits[3]? If no, list analytes affected, the RPDs and the affected samples.	X			
26	Are MS/MSD recoveries within QC limits[3]? NOTE: If not performed on a project sample, evaluation is not required. If no, list analytes affected, the MS/MSD recoveries and the sample that was spiked.		X		One of the two MS/MSD pairs for Batch 160071 (HS20110870 -05MS/MSD) had a low percent recovery of chloride in the MS and a high percent recovery in the MSD. However, recoveries of these COCs in the LCS were within specifications, so no data qualification was necessary. Note: some MS/MSD pairs were not from this site, so QA/QC data from those MS/MSD results are not applicable to this data set.

Analytical Data Review Checklist

	Review Item or Question	Y	N	NA	Comments[1]
27	Are MS/MSD RPDs within QC limits[3]? NOTE: If not performed on a project sample, evaluation is not required, If no, list analytes affected, the RPDs and the sample that was spiked.	X			Note: some MS/MSD pairs were not from this site, so QA/QC data from those MS/MSD results are not applicable to this data set.
28	Are laboratory duplicate RPDs within QC limits[3]? NOTE: If not performed on a project sample, evaluation is not required. If no, list analytes affected, the RPDs and the sample that was prepared/analyzed in duplicate.	X			
29	Are field duplicate RPDs within QC limits? If no, list analytes affected, the RPDs and the associated samples. NOTE: Typical criteria[4] are RPD ≤50 for solid samples and RPD ≤30 for aqueous and air samples when results are >2x the reporting limit; otherwise these criteria are doubled. However, project-specific or regulatory-based criteria may supersede these criteria.		X		RPD for DRO was >50. Data not qualified based on good LCS and MS/MSD data.
30	ORGANIC ANALYSES ONLY: Are surrogate recoveries within QC limits[3]? If no, list samples, surrogate recoveries and analytes affected.		X		See lab QC sheet. Surrogate recoveries did not result in need to qualify data.
Laboratory Comments					
31	Did the case narrative describe any analytical anomalies (i.e., problems or unique occurrences)? If yes, list the comments that have potential impact to sample results (or attach case narrative and highlight the comments that have potential impact to sample results).		X		
32	Were any other potential data quality issues identified? If yes, describe issues.		X		
Do the Data Make Sense?					
33	Do any results look questionable? If yes, ASK THE LAB!		X		
34	Has the EDD been compared with the lab report?		X		EDD not used to create data tables.

(1) Comments generally need to be addressed in the TRC deliverable presenting the laboratory data but this will be dependent on project requirements.
(2) Check if local or regional criteria for blank assessments are available; these will supersede criteria in this checklist.
(3) Use QC limits in QAPP, if available. If not, use QC limits provided by laboratory in data package.
(4) EPA New England Environmental Data Review Supplement for Regional Data Review Elements and Superfund Guidance/Procedures, April 22, 2013.

COC = Chain-of-Custody
EDD = Electronic Data Deliverable
LCS/LCSD = Laboratory Control Sample / Laboratory Control Sample Duplicate
MS/MSD = Matrix Spike / Matrix Spike Duplicate
QAPP = Quality Assurance Project Plan
QC = Quality Control
RPD = Relative Percent Difference = |(A-B)/((A+B)/2)|
VOC = Volatile Organic Compounds

NOTE: After data tables are created, check that reporting limits are below the project action levels (e.g., screening criteria,

Analytical Data Review Checklist

remediation standards, etc.) and compare data with historical results, if applicable.

Additional Comments:

January 25, 2021

SUMMARY OF DATA VALIDATION RPD CALCULATIONS FOR FIELD DUPLICATES
FORMER TANK 970 / ARTESIA STATION WEST, EDDY COUNTY, NM

Boring ID	Depth Inteval	Sample Date	Constituent of Concern (COC)									
			BTEX (mg/kg)					TPH (mg/kg)				
			Benzene	Ethyl-benzene	Toluene	Total Xylenes	Total BTEX	GRO	DRO	MRO	TPH	Chloride (mg/kg)
SB-1	Reporting Limit		0.052	0.26	0.26	0.26	NA	0.1	170	340	NA	4.95
	75-77'	11/10/2020	**0.054**	**7.8**	**1.3**	**21**	**30.154**	**82**	**4100**	**2600**	**6782**	**440**
	Duplicate-1	11/10/2020	**4.1**	**8.4**	**2.8**	**21**	**36.3**	**1200**	**1600**	**990**	**3790**	**788**
	RPD		194.80%	7.41%	73.17%	0.00%	18.50%	174.41%	87.72%	89.69%	56.60%	56.68%
SB-3	Reporting Limit		0.0048	0.0048	0.0048	0.0048	NA	0.052	1.7	3.4	NA	4.99
	105-107'	11/13/2020	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0520	<1.70	**8**	**8**	**56.4**
	Duplicate-2	11/13/2020	<0.0051	<0.0051	<0.0051	**0.0059**	**0.0059**	<0.0540	**6.3**	**11**	**17.3**	**46.4**
	RPD		6.06%	6.06%	6.06%	20.56%	20.56%	3.77%	115.00%	31.58%	73.52%	19.46%
SB-14	Reporting Limit		0.0048	0.043	0.043	0.043	NA	0.05	85	170	NA	4.91
	65-67'	12/8/2020	<0.0048	**0.11**	<0.0430	**0.51**	**0.62**	**5**	**590**	**490**	**1085**	**34.6**
	Duplicate-3	12/8/2020	<0.0050	**0.22**	**0.19**	**0.87**	**1.28**	**5.9**	**750**	**640**	**1395.9**	**39.4**
	RPD		4.08%	66.67%	126.18%	52.17%	69.47%	16.51%	23.88%	26.55%	25.06%	12.97%

Detected concentrations reported in bold.
Orange shading represents RPD outside of TRC QC limits.
Duplicate sample data provided immediately below paired assessment sample.

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December 02, 2020

Richard (RD) Varnell
TRC Corporation
505 East Huntland Drive
Suite 250
Austin, TX 78752

Work Order: **HS20110870**

Laboratory Results for: **Artesia Station West**

Dear Richard (RD) Varnell,

ALS Environmental received 17 sample(s) on Nov 17, 2020 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: JUMOKE.LAWAL
RJ Modashia
Project Manager

ALS Houston, US Date: 02-Dec-20

Client: TRC Corporation
Project: Artesia Station West
Work Order: HS20110870

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS20110870-01	SB-2-0-2	Soil		11-Nov-2020 13:30	17-Nov-2020 09:40	☐
HS20110870-02	SB-2-20-22	Soil		11-Nov-2020 14:30	17-Nov-2020 09:40	☐
HS20110870-03	SB-2-80-82	Soil		12-Nov-2020 11:05	17-Nov-2020 09:40	☐
HS20110870-04	SB-2-90-92	Soil		12-Nov-2020 12:00	17-Nov-2020 09:40	☐
HS20110870-05	SB-2-95-97	Soil		12-Nov-2020 12:20	17-Nov-2020 09:40	☐
HS20110870-06	SB-2-100-102	Soil		12-Nov-2020 12:55	17-Nov-2020 09:40	☐
HS20110870-07	SB-3-30-32	Soil		12-Nov-2020 14:45	17-Nov-2020 09:40	☐
HS20110870-08	SB-3-40-42	Soil		12-Nov-2020 15:15	17-Nov-2020 09:40	☐
HS20110870-09	SB-3-50-52	Soil		12-Nov-2020 15:45	17-Nov-2020 09:40	☐
HS20110870-10	SB-3-60-62	Soil		13-Nov-2020 08:30	17-Nov-2020 09:40	☐
HS20110870-11	SB-3-70-72	Soil		13-Nov-2020 09:30	17-Nov-2020 09:40	☐
HS20110870-12	SB-3-80-82	Soil		13-Nov-2020 10:05	17-Nov-2020 09:40	☐
HS20110870-13	SB-3-100-102	Soil		13-Nov-2020 14:25	17-Nov-2020 09:40	☐
HS20110870-14	SB-3-105-107	Soil		13-Nov-2020 15:10	17-Nov-2020 09:40	☐
HS20110870-15	SB-3-110-112	Soil		13-Nov-2020 15:50	17-Nov-2020 09:40	☐
HS20110870-16	TB-11132020-2	Water	CG-100620-96	13-Nov-2020 17:00	17-Nov-2020 09:40	☐
HS20110870-17	Duplicate-2	Soil		13-Nov-2020 00:00	17-Nov-2020 09:40	☐

ALS Houston, US Date: 02-Dec-20

Client: TRC Corporation **CASE NARRATIVE**
Project: Artesia Station West
Work Order: HS20110870

GC Semivolatiles by Method SW8015M

Batch ID: 159892

Sample ID: HS20110868-19MS

• MS and MSD are for an unrelated sample (TPH (Diesel Range))

Sample ID: SB-2-0-2 (HS20110870-01)

• The surrogate recoveries could not be determined due to dilution below the calibration range.

Sample ID: SB-3-30-32 (HS20110870-07)

• The surrogate recoveries could not be determined due to dilution below the calibration range.

Sample ID: SB-3-40-42 (HS20110870-08)

• The surrogate recoveries could not be determined due to dilution below the calibration range.

Sample ID: SB-3-50-52 (HS20110870-09)

• The surrogate recoveries could not be determined due to dilution below the calibration range.

Sample ID: SB-3-60-62 (HS20110870-10)

• The surrogate recoveries could not be determined due to dilution below the calibration range.

Sample ID: SB-3-80-82 (HS20110870-12)

• Surrogate recoveries were outside of the control limits due to matrix interference.

Sample ID: SB-3-70-72 (HS20110870-11)

• Surrogate recoveries were outside of the control limits due to matrix interference.

Sample ID: SB-3-110-112 (HS20110870-15)

• Surrogate recoveries were outside of the control limits due to matrix interference.

GC Volatiles by Method SW8015

Batch ID: R373030

Sample ID: SB-3-40-42 (HS20110870-08)

• Surrogate recoveries were outside of the control limits due to matrix interference.

Batch ID: R373166

Sample ID: HS20110956-01MS

• MS and MSD are for an unrelated sample

Batch ID: R373218

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

GCMS Volatiles by Method SW8260

Batch ID: R373160,R373496

ALS Houston, US Date: 02-Dec-20

Client: TRC Corporation **CASE NARRATIVE**
Project: Artesia Station West
Work Order: HS20110870

GCMS Volatiles by Method SW8260

Batch ID: R373160,R373496

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Batch ID: R373497

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method ASTM D2216

Batch ID: R373339

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method E300

Batch ID: 160071

Sample ID: SB-2-95-97 (HS20110870-05MS)

- The MS and/or MSD recovery was outside of the control limits; however, the result in the parent sample is greater than 4x the spike amount. (Chloride)

ALS Houston, US Date: 02-Dec-20

Client: TRC Corporation
Project: Artesia Station West
Sample ID: SB-2-0-2
Collection Date: 11-Nov-2020 13:30

ANALYTICAL REPORT
WorkOrder:HS20110870
Lab ID:HS20110870-01
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		**Method:SW8260**				Analyst: WLR
Benzene	**0.13**		**0.043**	**mg/Kg**	10	22-Nov-2020 21:51
Ethylbenzene	**0.70**		**0.043**	**mg/Kg**	10	22-Nov-2020 21:51
Toluene	< 0.043		0.043	mg/Kg	10	22-Nov-2020 21:51
Xylenes, Total	**1.3**		**0.043**	**mg/Kg**	10	22-Nov-2020 21:51
Surr: 1,2-Dichloroethane-d4	*83.0*		*70-126*	*%REC*	*10*	*22-Nov-2020 21:51*
Surr: 4-Bromofluorobenzene	*96.0*		*70-130*	*%REC*	*10*	*22-Nov-2020 21:51*
Surr: Dibromofluoromethane	*87.7*		*70-130*	*%REC*	*10*	*22-Nov-2020 21:51*
Surr: Toluene-d8	*102*		*70-130*	*%REC*	*10*	*22-Nov-2020 21:51*
GASOLINE RANGE ORGANICS BY SW8015C		**Method:SW8015**				Analyst: QX
Gasoline Range Organics	**660**		**2.7**	**mg/Kg**	50	20-Nov-2020 21:32
Surr: 4-Bromofluorobenzene	*106*		*70-123*	*%REC*	*50*	*20-Nov-2020 21:32*
TPH DRO/ORO BY SW8015C		**Method:SW8015M**		Prep:SW3541 / 19-Nov-2020		Analyst: MBG
TPH (Diesel Range)	**11,000**		**1700**	**mg/Kg**	100	22-Nov-2020 16:23
TPH (Motor Oil Range)	**20,000**	n	**3400**	**mg/Kg**	100	22-Nov-2020 16:23
Surr: 2-Fluorobiphenyl	*0*	*JS*	*60-129*	*%REC*	*100*	*22-Nov-2020 16:23*
MOISTURE - ASTM D2216		**Method:ASTM D2216**				Analyst: JAC
Percent Moisture	**12.9**		**0.0100**	**wt%**	1	23-Nov-2020 18:00
ANIONS BY E300.0		**Method:E300**		Prep:E300 / 24-Nov-2020		Analyst: YP
Chloride	**774**		**4.97**	**mg/Kg**	1	02-Dec-2020 04:15

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 02-Dec-20

Client: TRC Corporation
Project: Artesia Station West
Sample ID: SB-2-20-22
Collection Date: 11-Nov-2020 14:30

ANALYTICAL REPORT
WorkOrder:HS20110870
Lab ID:HS20110870-02
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C	**Method:SW8260**					Analyst: WLR
Benzene	< 0.0049		0.0049	mg/Kg	1	22-Nov-2020 14:41
Ethylbenzene	< 0.0049		0.0049	mg/Kg	1	22-Nov-2020 14:41
Toluene	< 0.0049		0.0049	mg/Kg	1	22-Nov-2020 14:41
Xylenes, Total	< 0.0049		0.0049	mg/Kg	1	22-Nov-2020 14:41
Surr: 1,2-Dichloroethane-d4	*89.1*		*70-126*	*%REC*	*1*	*22-Nov-2020 14:41*
Surr: 4-Bromofluorobenzene	*96.6*		*70-130*	*%REC*	*1*	*22-Nov-2020 14:41*
Surr: Dibromofluoromethane	*91.9*		*70-130*	*%REC*	*1*	*22-Nov-2020 14:41*
Surr: Toluene-d8	*98.3*		*70-130*	*%REC*	*1*	*22-Nov-2020 14:41*
GASOLINE RANGE ORGANICS BY SW8015C	**Method:SW8015**					Analyst: QX
Gasoline Range Organics	< 0.049		0.049	mg/Kg	1	19-Nov-2020 22:59
Surr: 4-Bromofluorobenzene	*114*		*70-123*	*%REC*	*1*	*19-Nov-2020 22:59*
TPH DRO/ORO BY SW8015C	**Method:SW8015M**			Prep:SW3541 / 19-Nov-2020		Analyst: MBG
TPH (Diesel Range)	**2.6**		**1.7**	**mg/Kg**	1	22-Nov-2020 16:47
TPH (Motor Oil Range)	**8.6**	n	**3.4**	**mg/Kg**	1	22-Nov-2020 16:47
Surr: 2-Fluorobiphenyl	*69.4*		*60-129*	*%REC*	*1*	*22-Nov-2020 16:47*
MOISTURE - ASTM D2216	**Method:ASTM D2216**					Analyst: JAC
Percent Moisture	**11.7**		**0.0100**	**wt%**	1	23-Nov-2020 18:00
ANIONS BY E300.0	**Method:E300**			Prep:E300 / 24-Nov-2020		Analyst: YP
Chloride	**358**		**4.98**	**mg/Kg**	1	02-Dec-2020 04:33

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 02-Dec-20

Client: TRC Corporation
Project: Artesia Station West
Sample ID: SB-2-80-82
Collection Date: 12-Nov-2020 11:05

ANALYTICAL REPORT
WorkOrder:HS20110870
Lab ID:HS20110870-03
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C	**Method:SW8260**					Analyst: WLR
Benzene	< 0.0051		0.0051	mg/Kg	1	22-Nov-2020 15:05
Ethylbenzene	< 0.0051		0.0051	mg/Kg	1	22-Nov-2020 15:05
Toluene	< 0.0051		0.0051	mg/Kg	1	22-Nov-2020 15:05
Xylenes, Total	< 0.0051		0.0051	mg/Kg	1	22-Nov-2020 15:05
Surr: 1,2-Dichloroethane-d4	*87.6*		*70-126*	*%REC*	*1*	*22-Nov-2020 15:05*
Surr: 4-Bromofluorobenzene	*97.6*		*70-130*	*%REC*	*1*	*22-Nov-2020 15:05*
Surr: Dibromofluoromethane	*90.7*		*70-130*	*%REC*	*1*	*22-Nov-2020 15:05*
Surr: Toluene-d8	*100*		*70-130*	*%REC*	*1*	*22-Nov-2020 15:05*
GASOLINE RANGE ORGANICS BY SW8015C	**Method:SW8015**					Analyst: QX
Gasoline Range Organics	< 0.052		0.052	mg/Kg	1	19-Nov-2020 23:15
Surr: 4-Bromofluorobenzene	*112*		*70-123*	*%REC*	*1*	*19-Nov-2020 23:15*
TPH DRO/ORO BY SW8015C	**Method:SW8015M**			Prep:SW3541 / 19-Nov-2020		Analyst: MBG
TPH (Diesel Range)	**23**		**1.7**	**mg/Kg**	1	22-Nov-2020 17:11
TPH (Motor Oil Range)	**44**	n	**3.4**	**mg/Kg**	1	22-Nov-2020 17:11
Surr: 2-Fluorobiphenyl	*68.8*		*60-129*	*%REC*	*1*	*22-Nov-2020 17:11*
MOISTURE - ASTM D2216	**Method:ASTM D2216**					Analyst: JAC
Percent Moisture	**5.84**		**0.0100**	**wt%**	1	23-Nov-2020 18:00
ANIONS BY E300.0	**Method:E300**			Prep:E300 / 24-Nov-2020		Analyst: YP
Chloride	**397**		**4.99**	**mg/Kg**	1	02-Dec-2020 04:51

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 02-Dec-20

Client: TRC Corporation
Project: Artesia Station West
Sample ID: SB-2-90-92
Collection Date: 12-Nov-2020 12:00

ANALYTICAL REPORT
WorkOrder:HS20110870
Lab ID:HS20110870-04
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C	**Method:SW8260**					Analyst: WLR
Benzene	< 0.0048		0.0048	mg/Kg	1	22-Nov-2020 15:29
Ethylbenzene	< 0.0048		0.0048	mg/Kg	1	22-Nov-2020 15:29
Toluene	< 0.0048		0.0048	mg/Kg	1	22-Nov-2020 15:29
Xylenes, Total	< 0.0048		0.0048	mg/Kg	1	22-Nov-2020 15:29
Surr: 1,2-Dichloroethane-d4	*91.6*		*70-126*	*%REC*	*1*	*22-Nov-2020 15:29*
Surr: 4-Bromofluorobenzene	*98.4*		*70-130*	*%REC*	*1*	*22-Nov-2020 15:29*
Surr: Dibromofluoromethane	*91.9*		*70-130*	*%REC*	*1*	*22-Nov-2020 15:29*
Surr: Toluene-d8	*97.5*		*70-130*	*%REC*	*1*	*22-Nov-2020 15:29*
GASOLINE RANGE ORGANICS BY SW8015C	**Method:SW8015**					Analyst: QX
Gasoline Range Organics	< 0.054		0.054	mg/Kg	1	19-Nov-2020 23:31
Surr: 4-Bromofluorobenzene	*113*		*70-123*	*%REC*	*1*	*19-Nov-2020 23:31*
TPH DRO/ORO BY SW8015C	**Method:SW8015M**			Prep:SW3541 / 19-Nov-2020		Analyst: MBG
TPH (Diesel Range)	**6.1**		**1.7**	**mg/Kg**	1	22-Nov-2020 17:36
TPH (Motor Oil Range)	**18**	n	**3.4**	**mg/Kg**	1	22-Nov-2020 17:36
Surr: 2-Fluorobiphenyl	*81.1*		*60-129*	*%REC*	*1*	*22-Nov-2020 17:36*
MOISTURE - ASTM D2216	**Method:ASTM D2216**					Analyst: JAC
Percent Moisture	**4.78**		**0.0100**	**wt%**	1	23-Nov-2020 18:00
ANIONS BY E300.0	**Method:E300**			Prep:E300 / 24-Nov-2020		Analyst: YP
Chloride	**592**		**4.93**	**mg/Kg**	1	02-Dec-2020 05:09

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 02-Dec-20

Client: TRC Corporation
Project: Artesia Station West
Sample ID: SB-2-95-97
Collection Date: 12-Nov-2020 12:20

ANALYTICAL REPORT
WorkOrder:HS20110870
Lab ID:HS20110870-05
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C	**Method:SW8260**					Analyst: WLR
Benzene	< 0.0048		0.0048	mg/Kg	1	22-Nov-2020 15:52
Ethylbenzene	< 0.0048		0.0048	mg/Kg	1	22-Nov-2020 15:52
Toluene	< 0.0048		0.0048	mg/Kg	1	22-Nov-2020 15:52
Xylenes, Total	< 0.0048		0.0048	mg/Kg	1	22-Nov-2020 15:52
Surr: 1,2-Dichloroethane-d4	*88.0*		*70-126*	*%REC*	*1*	*22-Nov-2020 15:52*
Surr: 4-Bromofluorobenzene	*96.3*		*70-130*	*%REC*	*1*	*22-Nov-2020 15:52*
Surr: Dibromofluoromethane	*91.9*		*70-130*	*%REC*	*1*	*22-Nov-2020 15:52*
Surr: Toluene-d8	*97.2*		*70-130*	*%REC*	*1*	*22-Nov-2020 15:52*
GASOLINE RANGE ORGANICS BY SW8015C	**Method:SW8015**					Analyst: QX
Gasoline Range Organics	< 0.046		0.046	mg/Kg	1	19-Nov-2020 23:48
Surr: 4-Bromofluorobenzene	*113*		*70-123*	*%REC*	*1*	*19-Nov-2020 23:48*
TPH DRO/ORO BY SW8015C	**Method:SW8015M**			Prep:SW3541 / 19-Nov-2020		Analyst: MBG
TPH (Diesel Range)	**4.4**		**1.7**	**mg/Kg**	1	23-Nov-2020 13:42
TPH (Motor Oil Range)	**14**	n	**3.4**	**mg/Kg**	1	23-Nov-2020 13:42
Surr: 2-Fluorobiphenyl	*73.2*		*60-129*	*%REC*	*1*	*23-Nov-2020 13:42*
MOISTURE - ASTM D2216	**Method:ASTM D2216**					Analyst: JAC
Percent Moisture	**4.60**		**0.0100**	**wt%**	1	23-Nov-2020 18:00
ANIONS BY E300.0	**Method:E300**			Prep:E300 / 24-Nov-2020		Analyst: YP
Chloride	**677**		**4.98**	**mg/Kg**	1	02-Dec-2020 06:40

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 02-Dec-20

Client: TRC Corporation
Project: Artesia Station West
Sample ID: SB-2-100-102
Collection Date: 12-Nov-2020 12:55

ANALYTICAL REPORT
WorkOrder:HS20110870
Lab ID:HS20110870-06
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C	**Method:SW8260**					Analyst: WLR
Benzene	< 0.0048		0.0048	mg/Kg	1	22-Nov-2020 16:16
Ethylbenzene	< 0.0048		0.0048	mg/Kg	1	22-Nov-2020 16:16
Toluene	< 0.0048		0.0048	mg/Kg	1	22-Nov-2020 16:16
Xylenes, Total	< 0.0048		0.0048	mg/Kg	1	22-Nov-2020 16:16
Surr: 1,2-Dichloroethane-d4	*91.0*		*70-126*	*%REC*	*1*	*22-Nov-2020 16:16*
Surr: 4-Bromofluorobenzene	*99.5*		*70-130*	*%REC*	*1*	*22-Nov-2020 16:16*
Surr: Dibromofluoromethane	*92.4*		*70-130*	*%REC*	*1*	*22-Nov-2020 16:16*
Surr: Toluene-d8	*97.8*		*70-130*	*%REC*	*1*	*22-Nov-2020 16:16*
GASOLINE RANGE ORGANICS BY SW8015C	**Method:SW8015**					Analyst: QX
Gasoline Range Organics	< 0.050		0.050	mg/Kg	1	20-Nov-2020 00:04
Surr: 4-Bromofluorobenzene	*115*		*70-123*	*%REC*	*1*	*20-Nov-2020 00:04*
TPH DRO/ORO BY SW8015C	**Method:SW8015M**			Prep:SW3541 / 19-Nov-2020		Analyst: MBG
TPH (Diesel Range)	**2.5**		**1.7**	**mg/Kg**	1	23-Nov-2020 14:06
TPH (Motor Oil Range)	**8.3**	n	**3.4**	**mg/Kg**	1	23-Nov-2020 14:06
Surr: 2-Fluorobiphenyl	*85.8*		*60-129*	*%REC*	*1*	*23-Nov-2020 14:06*
MOISTURE - ASTM D2216	**Method:ASTM D2216**					Analyst: JAC
Percent Moisture	**12.0**		**0.0100**	**wt%**	1	23-Nov-2020 18:00
ANIONS BY E300.0	**Method:E300**			Prep:E300 / 24-Nov-2020		Analyst: YP
Chloride	**202**		**4.97**	**mg/Kg**	1	02-Dec-2020 07:34

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 02-Dec-20

Client: TRC Corporation
Project: Artesia Station West
Sample ID: SB-3-30-32
Collection Date: 12-Nov-2020 14:45

ANALYTICAL REPORT
WorkOrder:HS20110870
Lab ID:HS20110870-07
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		**Method:SW8260**				Analyst: WLR
Benzene	< 0.044		0.044	mg/Kg	10	22-Nov-2020 20:39
Ethylbenzene	**5.2**		**0.22**	**mg/Kg**	50	26-Nov-2020 16:54
Toluene	**1.3**		**0.044**	**mg/Kg**	10	22-Nov-2020 20:39
Xylenes, Total	**13**		**0.22**	**mg/Kg**	50	26-Nov-2020 16:54
Surr: 1,2-Dichloroethane-d4	*82.7*		*70-126*	*%REC*	*10*	*22-Nov-2020 20:39*
Surr: 1,2-Dichloroethane-d4	*89.1*		*70-126*	*%REC*	*50*	*26-Nov-2020 16:54*
Surr: 4-Bromofluorobenzene	*115*		*70-130*	*%REC*	*10*	*22-Nov-2020 20:39*
Surr: 4-Bromofluorobenzene	*118*		*70-130*	*%REC*	*50*	*26-Nov-2020 16:54*
Surr: Dibromofluoromethane	*87.2*		*70-130*	*%REC*	*10*	*22-Nov-2020 20:39*
Surr: Dibromofluoromethane	*89.4*		*70-130*	*%REC*	*50*	*26-Nov-2020 16:54*
Surr: Toluene-d8	*112*		*70-130*	*%REC*	*10*	*22-Nov-2020 20:39*
Surr: Toluene-d8	*100*		*70-130*	*%REC*	*50*	*26-Nov-2020 16:54*
GASOLINE RANGE ORGANICS BY SW8015C		**Method:SW8015**				Analyst: QX
Gasoline Range Organics	**1,100**		**5.2**	**mg/Kg**	100	20-Nov-2020 23:07
Surr: 4-Bromofluorobenzene	*108*		*70-123*	*%REC*	*100*	*20-Nov-2020 23:07*
TPH DRO/ORO BY SW8015C		**Method:SW8015M**		Prep:SW3541 / 19-Nov-2020		Analyst: MBG
TPH (Diesel Range)	**2,000**		**170**	**mg/Kg**	100	23-Nov-2020 12:54
TPH (Motor Oil Range)	**1,200**	n	**340**	**mg/Kg**	100	23-Nov-2020 12:54
Surr: 2-Fluorobiphenyl	*0*	*JS*	*60-129*	*%REC*	*100*	*23-Nov-2020 12:54*
MOISTURE - ASTM D2216		**Method:ASTM D2216**				Analyst: JAC
Percent Moisture	**4.97**		**0.0100**	**wt%**	1	23-Nov-2020 18:00
ANIONS BY E300.0		**Method:E300**		Prep:E300 / 24-Nov-2020		Analyst: YP
Chloride	**11.0**		**4.97**	**mg/Kg**	1	02-Dec-2020 07:53

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 02-Dec-20

Client: TRC Corporation
Project: Artesia Station West
Sample ID: SB-3-40-42
Collection Date: 12-Nov-2020 15:15

ANALYTICAL REPORT
WorkOrder:HS20110870
Lab ID:HS20110870-08
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		**Method:SW8260**				Analyst: WLR
Benzene	< 0.046		0.046	mg/Kg	10	22-Nov-2020 20:15
Ethylbenzene	**2.5**		**0.23**	**mg/Kg**	50	26-Nov-2020 17:15
Toluene	**0.77**		**0.046**	**mg/Kg**	10	22-Nov-2020 20:15
Xylenes, Total	**6.8**		**0.23**	**mg/Kg**	50	26-Nov-2020 17:15
Surr: 1,2-Dichloroethane-d4	*87.4*		*70-126*	*%REC*	*10*	*22-Nov-2020 20:15*
Surr: 1,2-Dichloroethane-d4	*87.8*		*70-126*	*%REC*	*50*	*26-Nov-2020 17:15*
Surr: 4-Bromofluorobenzene	*106*		*70-130*	*%REC*	*10*	*22-Nov-2020 20:15*
Surr: 4-Bromofluorobenzene	*116*		*70-130*	*%REC*	*50*	*26-Nov-2020 17:15*
Surr: Dibromofluoromethane	*87.2*		*70-130*	*%REC*	*10*	*22-Nov-2020 20:15*
Surr: Dibromofluoromethane	*89.5*		*70-130*	*%REC*	*50*	*26-Nov-2020 17:15*
Surr: Toluene-d8	*109*		*70-130*	*%REC*	*10*	*22-Nov-2020 20:15*
Surr: Toluene-d8	*105*		*70-130*	*%REC*	*50*	*26-Nov-2020 17:15*
GASOLINE RANGE ORGANICS BY SW8015C		**Method:SW8015**				Analyst: QX
Gasoline Range Organics	**120**		**0.12**	**mg/Kg**	1	20-Nov-2020 00:36
Surr: 4-Bromofluorobenzene	*170*	*S*	*70-123*	*%REC*	*1*	*20-Nov-2020 00:36*
TPH DRO/ORO BY SW8015C		**Method:SW8015M**		Prep:SW3541 / 19-Nov-2020		Analyst: MBG
TPH (Diesel Range)	**2,900**		**170**	**mg/Kg**	100	30-Nov-2020 14:16
TPH (Motor Oil Range)	**1,900**	n	**340**	**mg/Kg**	100	30-Nov-2020 14:16
Surr: 2-Fluorobiphenyl	*0*	*JS*	*60-129*	*%REC*	*100*	*30-Nov-2020 14:16*
MOISTURE - ASTM D2216		**Method:ASTM D2216**				Analyst: JAC
Percent Moisture	**4.79**		**0.0100**	**wt%**	1	23-Nov-2020 18:00
ANIONS BY E300.0		**Method:E300**		Prep:E300 / 24-Nov-2020		Analyst: YP
Chloride	**13.0**		**4.97**	**mg/Kg**	1	02-Dec-2020 08:11

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 02-Dec-20

Client: TRC Corporation
Project: Artesia Station West
Sample ID: SB-3-50-52
Collection Date: 12-Nov-2020 15:45

ANALYTICAL REPORT
WorkOrder:HS20110870
Lab ID:HS20110870-09
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		**Method:SW8260**				Analyst: WLR
Benzene	< 0.038		0.038	mg/Kg	10	22-Nov-2020 21:03
Ethylbenzene	**4.8**		**0.19**	**mg/Kg**	50	26-Nov-2020 17:36
Toluene	**1.1**		**0.19**	**mg/Kg**	50	26-Nov-2020 17:36
Xylenes, Total	**12**		**0.19**	**mg/Kg**	50	26-Nov-2020 17:36
Surr: 1,2-Dichloroethane-d4	*86.4*		*70-126*	*%REC*	*10*	*22-Nov-2020 21:03*
Surr: 1,2-Dichloroethane-d4	*89.2*		*70-126*	*%REC*	*50*	*26-Nov-2020 17:36*
Surr: 4-Bromofluorobenzene	*110*		*70-130*	*%REC*	*10*	*22-Nov-2020 21:03*
Surr: 4-Bromofluorobenzene	*120*		*70-130*	*%REC*	*50*	*26-Nov-2020 17:36*
Surr: Dibromofluoromethane	*87.7*		*70-130*	*%REC*	*10*	*22-Nov-2020 21:03*
Surr: Dibromofluoromethane	*88.9*		*70-130*	*%REC*	*50*	*26-Nov-2020 17:36*
Surr: Toluene-d8	*113*		*70-130*	*%REC*	*10*	*22-Nov-2020 21:03*
Surr: Toluene-d8	*95.9*		*70-130*	*%REC*	*50*	*26-Nov-2020 17:36*
GASOLINE RANGE ORGANICS BY SW8015C		**Method:SW8015**				Analyst: QX
Gasoline Range Organics	**800**		**5.0**	**mg/Kg**	100	20-Nov-2020 21:48
Surr: 4-Bromofluorobenzene	*107*		*70-123*	*%REC*	*100*	*20-Nov-2020 21:48*
TPH DRO/ORO BY SW8015C		**Method:SW8015M**		Prep:SW3541 / 19-Nov-2020		Analyst: MBG
TPH (Diesel Range)	**2,100**		**170**	**mg/Kg**	100	23-Nov-2020 13:18
TPH (Motor Oil Range)	**1,200**	n	**340**	**mg/Kg**	100	23-Nov-2020 13:18
Surr: 2-Fluorobiphenyl	*0*	*JS*	*60-129*	*%REC*	*100*	*23-Nov-2020 13:18*
MOISTURE - ASTM D2216		**Method:ASTM D2216**				Analyst: JAC
Percent Moisture	**6.29**		**0.0100**	**wt%**	1	23-Nov-2020 18:00
ANIONS BY E300.0		**Method:E300**		Prep:E300 / 24-Nov-2020		Analyst: YP
Chloride	**21.3**		**4.99**	**mg/Kg**	1	02-Dec-2020 08:29

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 02-Dec-20

Client: TRC Corporation
Project: Artesia Station West
Sample ID: SB-3-60-62
Collection Date: 13-Nov-2020 08:30

ANALYTICAL REPORT
WorkOrder:HS20110870
Lab ID:HS20110870-10
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		**Method:SW8260**				Analyst: WLR
Benzene	< 0.043		0.043	mg/Kg	10	22-Nov-2020 21:27
Ethylbenzene	**6.5**		**0.22**	**mg/Kg**	50	26-Nov-2020 17:57
Toluene	**1.7**		**0.22**	**mg/Kg**	50	26-Nov-2020 17:57
Xylenes, Total	**15**		**0.22**	**mg/Kg**	50	26-Nov-2020 17:57
Surr: 1,2-Dichloroethane-d4	*89.3*		*70-126*	*%REC*	*10*	*22-Nov-2020 21:27*
Surr: 1,2-Dichloroethane-d4	*88.2*		*70-126*	*%REC*	*50*	*26-Nov-2020 17:57*
Surr: 4-Bromofluorobenzene	*105*		*70-130*	*%REC*	*10*	*22-Nov-2020 21:27*
Surr: 4-Bromofluorobenzene	*114*		*70-130*	*%REC*	*50*	*26-Nov-2020 17:57*
Surr: Dibromofluoromethane	*88.4*		*70-130*	*%REC*	*10*	*22-Nov-2020 21:27*
Surr: Dibromofluoromethane	*88.3*		*70-130*	*%REC*	*50*	*26-Nov-2020 17:57*
Surr: Toluene-d8	*110*		*70-130*	*%REC*	*10*	*22-Nov-2020 21:27*
Surr: Toluene-d8	*95.5*		*70-130*	*%REC*	*50*	*26-Nov-2020 17:57*
GASOLINE RANGE ORGANICS BY SW8015C		**Method:SW8015**				Analyst: QX
Gasoline Range Organics	**840**		**5.2**	**mg/Kg**	100	20-Nov-2020 23:41
Surr: 4-Bromofluorobenzene	*106*		*70-123*	*%REC*	*100*	*20-Nov-2020 23:41*
TPH DRO/ORO BY SW8015C		**Method:SW8015M**		Prep:SW3541 / 19-Nov-2020		Analyst: MBG
TPH (Diesel Range)	**1,400**		**85**	**mg/Kg**	50	23-Nov-2020 12:54
TPH (Motor Oil Range)	**880**	n	**170**	**mg/Kg**	50	23-Nov-2020 12:54
Surr: 2-Fluorobiphenyl	*0*	*JS*	*60-129*	*%REC*	*50*	*23-Nov-2020 12:54*
MOISTURE - ASTM D2216		**Method:ASTM D2216**				Analyst: JAC
Percent Moisture	**5.77**		**0.0100**	**wt%**	1	23-Nov-2020 18:00
ANIONS BY E300.0		**Method:E300**		Prep:E300 / 24-Nov-2020		Analyst: YP
Chloride	**37.7**		**4.99**	**mg/Kg**	1	02-Dec-2020 08:47

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 02-Dec-20

Client: TRC Corporation
Project: Artesia Station West
Sample ID: SB-3-70-72
Collection Date: 13-Nov-2020 09:30

ANALYTICAL REPORT
WorkOrder:HS20110870
Lab ID:HS20110870-11
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		**Method:SW8260**				Analyst: WLR
Benzene	< 0.0050		0.0050	mg/Kg	1	22-Nov-2020 16:40
Ethylbenzene	**0.0057**		**0.0050**	**mg/Kg**	1	22-Nov-2020 16:40
Toluene	< 0.0050		0.0050	mg/Kg	1	22-Nov-2020 16:40
Xylenes, Total	**0.019**		**0.0050**	**mg/Kg**	1	22-Nov-2020 16:40
Surr: 1,2-Dichloroethane-d4	*91.1*		*70-126*	*%REC*	*1*	*22-Nov-2020 16:40*
Surr: 4-Bromofluorobenzene	*97.1*		*70-130*	*%REC*	*1*	*22-Nov-2020 16:40*
Surr: Dibromofluoromethane	*93.0*		*70-130*	*%REC*	*1*	*22-Nov-2020 16:40*
Surr: Toluene-d8	*97.1*		*70-130*	*%REC*	*1*	*22-Nov-2020 16:40*
GASOLINE RANGE ORGANICS BY SW8015C		**Method:SW8015**				Analyst: QX
Gasoline Range Organics	**0.22**		**0.055**	**mg/Kg**	1	20-Nov-2020 16:25
Surr: 4-Bromofluorobenzene	*115*		*70-123*	*%REC*	*1*	*20-Nov-2020 16:25*
TPH DRO/ORO BY SW8015C		**Method:SW8015M**		Prep:SW3541 / 19-Nov-2020		Analyst: MBG
TPH (Diesel Range)	**220**		**17**	**mg/Kg**	10	23-Nov-2020 13:18
TPH (Motor Oil Range)	**180**	n	**34**	**mg/Kg**	10	23-Nov-2020 13:18
Surr: 2-Fluorobiphenyl	*134*	*S*	*60-129*	*%REC*	*10*	*23-Nov-2020 13:18*
MOISTURE - ASTM D2216		**Method:ASTM D2216**				Analyst: JAC
Percent Moisture	**13.4**		**0.0100**	**wt%**	1	23-Nov-2020 18:00
ANIONS BY E300.0		**Method:E300**		Prep:E300 / 24-Nov-2020		Analyst: YP
Chloride	**8.04**		**4.95**	**mg/Kg**	1	02-Dec-2020 09:05

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 02-Dec-20

Client: TRC Corporation
Project: Artesia Station West
Sample ID: SB-3-80-82
Collection Date: 13-Nov-2020 10:05

ANALYTICAL REPORT
WorkOrder:HS20110870
Lab ID:HS20110870-12
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		**Method:SW8260**				Analyst: WLR
Benzene	< 0.0050		0.0050	mg/Kg	1	22-Nov-2020 17:04
Ethylbenzene	**0.014**		**0.0050**	**mg/Kg**	1	22-Nov-2020 17:04
Toluene	< 0.0050		0.0050	mg/Kg	1	22-Nov-2020 17:04
Xylenes, Total	**0.048**		**0.0050**	**mg/Kg**	1	22-Nov-2020 17:04
Surr: 1,2-Dichloroethane-d4	*91.4*		*70-126*	*%REC*	*1*	*22-Nov-2020 17:04*
Surr: 4-Bromofluorobenzene	*98.1*		*70-130*	*%REC*	*1*	*22-Nov-2020 17:04*
Surr: Dibromofluoromethane	*93.8*		*70-130*	*%REC*	*1*	*22-Nov-2020 17:04*
Surr: Toluene-d8	*99.3*		*70-130*	*%REC*	*1*	*22-Nov-2020 17:04*
GASOLINE RANGE ORGANICS BY SW8015C		**Method:SW8015**				Analyst: QX
Gasoline Range Organics	**0.76**		**0.054**	**mg/Kg**	1	20-Nov-2020 16:41
Surr: 4-Bromofluorobenzene	*117*		*70-123*	*%REC*	*1*	*20-Nov-2020 16:41*
TPH DRO/ORO BY SW8015C		**Method:SW8015M**		Prep:SW3541 / 19-Nov-2020		Analyst: MBG
TPH (Diesel Range)	**350**		**17**	**mg/Kg**	10	23-Nov-2020 13:42
TPH (Motor Oil Range)	**270**	n	**34**	**mg/Kg**	10	23-Nov-2020 13:42
Surr: 2-Fluorobiphenyl	*187*	*S*	*60-129*	*%REC*	*10*	*23-Nov-2020 13:42*
MOISTURE - ASTM D2216		**Method:ASTM D2216**				Analyst: JAC
Percent Moisture	**6.05**		**0.0100**	**wt%**	1	23-Nov-2020 18:00
ANIONS BY E300.0		**Method:E300**		Prep:E300 / 24-Nov-2020		Analyst: YP
Chloride	**15.2**		**4.98**	**mg/Kg**	1	02-Dec-2020 09:23

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 02-Dec-20

Client: TRC Corporation
Project: Artesia Station West
Sample ID: SB-3-100-102
Collection Date: 13-Nov-2020 14:25

ANALYTICAL REPORT
WorkOrder:HS20110870
Lab ID:HS20110870-13
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C	**Method:SW8260**					Analyst: WLR
Benzene	< 0.0048		0.0048	mg/Kg	1	22-Nov-2020 13:29
Ethylbenzene	< 0.0048		0.0048	mg/Kg	1	22-Nov-2020 13:29
Toluene	< 0.0048		0.0048	mg/Kg	1	22-Nov-2020 13:29
Xylenes, Total	< 0.0048		0.0048	mg/Kg	1	22-Nov-2020 13:29
Surr: 1,2-Dichloroethane-d4	*87.2*		*70-126*	*%REC*	*1*	*22-Nov-2020 13:29*
Surr: 4-Bromofluorobenzene	*95.7*		*70-130*	*%REC*	*1*	*22-Nov-2020 13:29*
Surr: Dibromofluoromethane	*91.0*		*70-130*	*%REC*	*1*	*22-Nov-2020 13:29*
Surr: Toluene-d8	*97.7*		*70-130*	*%REC*	*1*	*22-Nov-2020 13:29*
GASOLINE RANGE ORGANICS BY SW8015C	**Method:SW8015**					Analyst: QX
Gasoline Range Organics	< 0.049		0.049	mg/Kg	1	20-Nov-2020 15:20
Surr: 4-Bromofluorobenzene	*112*		*70-123*	*%REC*	*1*	*20-Nov-2020 15:20*
TPH DRO/ORO BY SW8015C	**Method:SW8015M**			Prep:SW3541 / 19-Nov-2020		Analyst: MBG
TPH (Diesel Range)	**4.6**		**1.7**	**mg/Kg**	1	22-Nov-2020 17:36
TPH (Motor Oil Range)	**28**	n	**3.4**	**mg/Kg**	1	22-Nov-2020 17:36
Surr: 2-Fluorobiphenyl	*63.2*		*60-129*	*%REC*	*1*	*22-Nov-2020 17:36*
MOISTURE - ASTM D2216	**Method:ASTM D2216**					Analyst: JAC
Percent Moisture	**15.3**		**0.0100**	**wt%**	1	23-Nov-2020 18:00
ANIONS BY E300.0	**Method:E300**			Prep:E300 / 24-Nov-2020		Analyst: YP
Chloride	**39.7**		**5.00**	**mg/Kg**	1	02-Dec-2020 10:36

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 02-Dec-20

Client: TRC Corporation
Project: Artesia Station West
Sample ID: SB-3-105-107
Collection Date: 13-Nov-2020 15:10

ANALYTICAL REPORT
WorkOrder:HS20110870
Lab ID:HS20110870-14
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		**Method:SW8260**				Analyst: WLR
Benzene	< 0.0048		0.0048	mg/Kg	1	22-Nov-2020 17:28
Ethylbenzene	< 0.0048		0.0048	mg/Kg	1	22-Nov-2020 17:28
Toluene	< 0.0048		0.0048	mg/Kg	1	22-Nov-2020 17:28
Xylenes, Total	< 0.0048		0.0048	mg/Kg	1	22-Nov-2020 17:28
Surr: 1,2-Dichloroethane-d4	*90.2*		*70-126*	*%REC*	*1*	*22-Nov-2020 17:28*
Surr: 4-Bromofluorobenzene	*98.3*		*70-130*	*%REC*	*1*	*22-Nov-2020 17:28*
Surr: Dibromofluoromethane	*91.8*		*70-130*	*%REC*	*1*	*22-Nov-2020 17:28*
Surr: Toluene-d8	*98.9*		*70-130*	*%REC*	*1*	*22-Nov-2020 17:28*
GASOLINE RANGE ORGANICS BY SW8015C		**Method:SW8015**				Analyst: QX
Gasoline Range Organics	< 0.052		0.052	mg/Kg	1	20-Nov-2020 03:19
Surr: 4-Bromofluorobenzene	*102*		*70-123*	*%REC*	*1*	*20-Nov-2020 03:19*
TPH DRO/ORO BY SW8015C		**Method:SW8015M**		Prep:SW3541 / 19-Nov-2020		Analyst: MBG
TPH (Diesel Range)	< 1.7		1.7	mg/Kg	1	22-Nov-2020 18:48
TPH (Motor Oil Range)	**8.0**	n	**3.4**	**mg/Kg**	1	22-Nov-2020 18:48
Surr: 2-Fluorobiphenyl	*81.7*		*60-129*	*%REC*	*1*	*22-Nov-2020 18:48*
MOISTURE - ASTM D2216		**Method:ASTM D2216**				Analyst: JAC
Percent Moisture	**16.5**		**0.0100**	**wt%**	1	23-Nov-2020 18:00
ANIONS BY E300.0		**Method:E300**		Prep:E300 / 24-Nov-2020		Analyst: YP
Chloride	**56.4**		**4.99**	**mg/Kg**	1	02-Dec-2020 10:54

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 02-Dec-20

Client: TRC Corporation
Project: Artesia Station West
Sample ID: SB-3-110-112
Collection Date: 13-Nov-2020 15:50

ANALYTICAL REPORT
WorkOrder:HS20110870
Lab ID:HS20110870-15
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		**Method:SW8260**				Analyst: WLR
Benzene	< 0.0048		0.0048	mg/Kg	1	22-Nov-2020 17:52
Ethylbenzene	< 0.0048		0.0048	mg/Kg	1	22-Nov-2020 17:52
Toluene	< 0.0048		0.0048	mg/Kg	1	22-Nov-2020 17:52
Xylenes, Total	**0.0059**		**0.0048**	**mg/Kg**	1	22-Nov-2020 17:52
Surr: 1,2-Dichloroethane-d4	*87.6*		*70-126*	*%REC*	*1*	*22-Nov-2020 17:52*
Surr: 4-Bromofluorobenzene	*97.1*		*70-130*	*%REC*	*1*	*22-Nov-2020 17:52*
Surr: Dibromofluoromethane	*89.6*		*70-130*	*%REC*	*1*	*22-Nov-2020 17:52*
Surr: Toluene-d8	*98.4*		*70-130*	*%REC*	*1*	*22-Nov-2020 17:52*
GASOLINE RANGE ORGANICS BY SW8015C		**Method:SW8015**				Analyst: QX
Gasoline Range Organics	**0.064**		**0.052**	**mg/Kg**	1	20-Nov-2020 03:35
Surr: 4-Bromofluorobenzene	*103*		*70-123*	*%REC*	*1*	*20-Nov-2020 03:35*
TPH DRO/ORO BY SW8015C		**Method:SW8015M**		Prep:SW3541 / 19-Nov-2020		Analyst: MBG
TPH (Diesel Range)	**60**		**1.7**	**mg/Kg**	1	22-Nov-2020 19:13
TPH (Motor Oil Range)	**14**	n	**3.4**	**mg/Kg**	1	22-Nov-2020 19:13
Surr: 2-Fluorobiphenyl	*132*	*S*	*60-129*	*%REC*	*1*	*22-Nov-2020 19:13*
MOISTURE - ASTM D2216		**Method:ASTM D2216**				Analyst: JAC
Percent Moisture	**15.9**		**0.0100**	**wt%**	1	23-Nov-2020 18:00
ANIONS BY E300.0		**Method:E300**		Prep:E300 / 24-Nov-2020		Analyst: YP
Chloride	**28.7**		**4.99**	**mg/Kg**	1	02-Dec-2020 11:48

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 02-Dec-20

Client: TRC Corporation
Project: Artesia Station West
Sample ID: TB-11132020-2
Collection Date: 13-Nov-2020 17:00

ANALYTICAL REPORT
WorkOrder:HS20110870
Lab ID:HS20110870-16
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C	**Method:SW8260**					Analyst: PC
Benzene	< 0.0050		0.0050	mg/L	1	26-Nov-2020 20:25
Ethylbenzene	< 0.0050		0.0050	mg/L	1	26-Nov-2020 20:25
m,p-Xylene	< 0.010		0.010	mg/L	1	26-Nov-2020 20:25
o-Xylene	< 0.0050		0.0050	mg/L	1	26-Nov-2020 20:25
Toluene	< 0.0050		0.0050	mg/L	1	26-Nov-2020 20:25
Xylenes, Total	< 0.0050		0.0050	mg/L	1	26-Nov-2020 20:25
Surr: 1,2-Dichloroethane-d4	*82.2*		*70-126*	*%REC*	*1*	*26-Nov-2020 20:25*
Surr: 4-Bromofluorobenzene	*89.0*		*82-124*	*%REC*	*1*	*26-Nov-2020 20:25*
Surr: Dibromofluoromethane	*88.8*		*77-123*	*%REC*	*1*	*26-Nov-2020 20:25*
Surr: Toluene-d8	*103*		*82-127*	*%REC*	*1*	*26-Nov-2020 20:25*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US Date: 02-Dec-20

Client: TRC Corporation
Project: Artesia Station West
Sample ID: Duplicate-2
Collection Date: 13-Nov-2020 00:00

ANALYTICAL REPORT
WorkOrder:HS20110870
Lab ID:HS20110870-17
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C	**Method:SW8260**					Analyst: WLR
Benzene	< 0.0051		0.0051	mg/Kg	1	22-Nov-2020 18:16
Ethylbenzene	< 0.0051		0.0051	mg/Kg	1	22-Nov-2020 18:16
Toluene	< 0.0051		0.0051	mg/Kg	1	22-Nov-2020 18:16
Xylenes, Total	**0.0059**		**0.0051**	**mg/Kg**	1	22-Nov-2020 18:16
Surr: 1,2-Dichloroethane-d4	*87.6*		*70-126*	*%REC*	*1*	*22-Nov-2020 18:16*
Surr: 4-Bromofluorobenzene	*95.8*		*70-130*	*%REC*	*1*	*22-Nov-2020 18:16*
Surr: Dibromofluoromethane	*90.3*		*70-130*	*%REC*	*1*	*22-Nov-2020 18:16*
Surr: Toluene-d8	*98.6*		*70-130*	*%REC*	*1*	*22-Nov-2020 18:16*
GASOLINE RANGE ORGANICS BY SW8015C	**Method:SW8015**					Analyst: QX
Gasoline Range Organics	< 0.054		0.054	mg/Kg	1	20-Nov-2020 03:52
Surr: 4-Bromofluorobenzene	*105*		*70-123*	*%REC*	*1*	*20-Nov-2020 03:52*
TPH DRO/ORO BY SW8015C	**Method:SW8015M**			Prep:SW3541 / 19-Nov-2020		Analyst: MBG
TPH (Diesel Range)	**6.3**		**1.7**	**mg/Kg**	1	22-Nov-2020 19:37
TPH (Motor Oil Range)	**11**	n	**3.4**	**mg/Kg**	1	22-Nov-2020 19:37
Surr: 2-Fluorobiphenyl	*80.5*		*60-129*	*%REC*	*1*	*22-Nov-2020 19:37*
MOISTURE - ASTM D2216	**Method:ASTM D2216**					Analyst: JAC
Percent Moisture	**15.6**		**0.0100**	**wt%**	1	23-Nov-2020 18:00
ANIONS BY E300.0	**Method:E300**			Prep:E300 / 24-Nov-2020		Analyst: YP
Chloride	**46.4**		**4.94**	**mg/Kg**	1	02-Dec-2020 12:06

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Weight / Prep Log

Client: TRC Corporation
Project: Artesia Station West
WorkOrder: HS20110870

Batch ID: 4024 **Start Date:** 18 Nov 2020 16:20 **End Date:** 18 Nov 2020 16:20
Method: GASOLINE RANGE ORGANICS BY SW8015C **Prep Code:**

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS20110870-01	1	4.66 (g)	5 (mL)	0	Bulk (5030B)
HS20110870-02	1	5.088 (g)	5 (mL)	0.98	Bulk (5030B)
HS20110870-03	1	4.838 (g)	5 (mL)	1.03	Bulk (5030B)
HS20110870-04	1	4.634 (g)	5 (mL)	1.08	Bulk (5030B)
HS20110870-05	1	5.367 (g)	5 (mL)	0.93	Bulk (5030B)
HS20110870-06	1	5.065 (g)	5 (mL)	0.99	Bulk (5030B)
HS20110870-07	1	4.74 (g)	5 (mL)	0	Bulk (5030B)
HS20110870-08	1	2.06 (g)	5 (mL)	2.43	Bulk (5030B)
HS20110870-09	1	4.99 (g)	5 (mL)	1	Bulk (5030B)
HS20110870-10	1	4.83 (g)	5 (mL)	1.04	Bulk (5030B)
HS20110870-11	1	4.56 (g)	5 (mL)	1.1	Bulk (5030B)
HS20110870-12	1	4.58 (g)	5 (mL)	1.09	Bulk (5030B)
HS20110870-13	1	5.09 (g)	5 (mL)	0	Bulk (5030B)
HS20110870-14	1	4.856 (g)	5 (mL)	1.03	Bulk (5030B)
HS20110870-15	1	4.786 (g)	5 (mL)	1.04	Bulk (5030B)
HS20110870-17	1	4.677 (g)	5 (mL)	1.07	Bulk (5030B)

Batch ID: 4028 **Start Date:** 20 Nov 2020 08:13 **End Date:** 20 Nov 2020 08:13
Method: VOLATILES BY SW8260C

Sample ID	Container	Sample Wt/Vol	Final Volume	Weight Factor	Container Type
HS20110870-01	1	0.584 (g)	0.5 (mL)	0.86	Bulk (5030B)
HS20110870-02	1	5.098 (g)	5 (mL)	0.98	Bulk (5030B)
HS20110870-03	1	4.916 (g)	5 (mL)	1.02	Bulk (5030B)
HS20110870-04	1	5.225 (g)	5 (mL)	0.96	Bulk (5030B)
HS20110870-05	1	5.137 (g)	5 (mL)	0.97	Bulk (5030B)
HS20110870-06	1	5.244 (g)	5 (mL)	0.95	Bulk (5030B)
HS20110870-07	1	0.571 (g)	0.5 (mL)	0.88	Bulk (5030B)
HS20110870-08	1	0.543 (g)	0.5 (mL)	0.92	Bulk (5030B)
HS20110870-09	1	0.648 (g)	0.5 (mL)	0.77	Bulk (5030B)
HS20110870-10	1	0.581 (g)	0.5 (mL)	0.86	Bulk (5030B)
HS20110870-11	1	4.999 (g)	5 (mL)	1	Bulk (5030B)
HS20110870-12	1	5 (g)	5 (mL)	1	Bulk (5030B)
HS20110870-13	1	5.13 (g)	5 (mL)	0.97	Bulk (5030B)
HS20110870-14	1	5.285 (g)	5 (mL)	0.95	Bulk (5030B)
HS20110870-15	1	5.279 (g)	5 (mL)	0.95	Bulk (5030B)
HS20110870-17	1	4.906 (g)	5 (mL)	1.02	Bulk (5030B)

Weight / Prep Log

Client: TRC Corporation
Project: Artesia Station West
WorkOrder: HS20110870

Batch ID: 159892 **Start Date:** 20 Nov 2020 06:00 **End Date:** 20 Nov 2020 09:00
Method: SOPREP: 3541 TPH **Prep Code:** 8015SPR_LL

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS20110870-01		30.24 (g)	10 (mL)	0.3307
HS20110870-02		30.01 (g)	1 (mL)	0.03332
HS20110870-03		30.28 (g)	1 (mL)	0.03303
HS20110870-04		30.17 (g)	1 (mL)	0.03315
HS20110870-05		30.14 (g)	1 (mL)	0.03318
HS20110870-06		30.06 (g)	1 (mL)	0.03327
HS20110870-07		30.24 (g)	1 (mL)	0.03307
HS20110870-08		30.04 (g)	1 (mL)	0.03329
HS20110870-09		30.09 (g)	1 (mL)	0.03323
HS20110870-10		30.1 (g)	1 (mL)	0.03322
HS20110870-11		30.19 (g)	1 (mL)	0.03312
HS20110870-12		30.21 (g)	1 (mL)	0.0331
HS20110870-13		30.24 (g)	1 (mL)	0.03307
HS20110870-14		30.23 (g)	1 (mL)	0.03308
HS20110870-15		30.27 (g)	1 (mL)	0.03304
HS20110870-17		30.38 (g)	1 (mL)	0.03292

Batch ID: 160071 **Start Date:** 24 Nov 2020 17:34 **End Date:** 24 Nov 2020 20:00
Method: 300 ANIONS SOIL PREP **Prep Code:** 300_S_PR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS20110870-01		5.0263 (g)	50 (mL)	9.948
HS20110870-02		5.0232 (g)	50 (mL)	9.954
HS20110870-03		5.0138 (g)	50 (mL)	9.972
HS20110870-04		5.075 (g)	50 (mL)	9.852
HS20110870-05		5.0163 (g)	50 (mL)	9.968
HS20110870-06		5.0351 (g)	50 (mL)	9.93
HS20110870-07		5.0262 (g)	50 (mL)	9.948
HS20110870-08		5.0277 (g)	50 (mL)	9.945
HS20110870-09		5.0084 (g)	50 (mL)	9.983
HS20110870-10		5.0082 (g)	50 (mL)	9.984
HS20110870-11		5.0494 (g)	50 (mL)	9.902
HS20110870-12		5.023 (g)	50 (mL)	9.954
HS20110870-13		5.0045 (g)	50 (mL)	9.991
HS20110870-14		5.0094 (g)	50 (mL)	9.981
HS20110870-15		5.0141 (g)	50 (mL)	9.972
HS20110870-17		5.056 (g)	50 (mL)	9.889

ALS Houston, US Date: 02-Dec-20

Client: TRC Corporation
Project: Artesia Station West
WorkOrder: HS20110870

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 159892 (0)	**Test Name :** TPH DRO/ORO BY SW8015C				**Matrix:** Soil	
HS20110870-01	SB-2-0-2	11 Nov 2020 13:30		19 Nov 2020 23:00	22 Nov 2020 16:23	100
HS20110870-02	SB-2-20-22	11 Nov 2020 14:30		19 Nov 2020 23:00	22 Nov 2020 16:47	1
HS20110870-03	SB-2-80-82	12 Nov 2020 11:05		19 Nov 2020 23:00	22 Nov 2020 17:11	1
HS20110870-04	SB-2-90-92	12 Nov 2020 12:00		19 Nov 2020 23:00	22 Nov 2020 17:36	1
HS20110870-05	SB-2-95-97	12 Nov 2020 12:20		19 Nov 2020 23:00	23 Nov 2020 13:42	1
HS20110870-06	SB-2-100-102	12 Nov 2020 12:55		19 Nov 2020 23:00	23 Nov 2020 14:06	1
HS20110870-07	SB-3-30-32	12 Nov 2020 14:45		19 Nov 2020 23:00	23 Nov 2020 12:54	100
HS20110870-08	SB-3-40-42	12 Nov 2020 15:15		19 Nov 2020 23:00	30 Nov 2020 14:16	100
HS20110870-09	SB-3-50-52	12 Nov 2020 15:45		19 Nov 2020 23:00	23 Nov 2020 13:18	100
HS20110870-10	SB-3-60-62	13 Nov 2020 08:30		19 Nov 2020 23:00	23 Nov 2020 12:54	50
HS20110870-11	SB-3-70-72	13 Nov 2020 09:30		19 Nov 2020 23:00	23 Nov 2020 13:18	10
HS20110870-12	SB-3-80-82	13 Nov 2020 10:05		19 Nov 2020 23:00	23 Nov 2020 13:42	10
HS20110870-13	SB-3-100-102	13 Nov 2020 14:25		19 Nov 2020 23:00	22 Nov 2020 17:36	1
HS20110870-14	SB-3-105-107	13 Nov 2020 15:10		19 Nov 2020 23:00	22 Nov 2020 18:48	1
HS20110870-15	SB-3-110-112	13 Nov 2020 15:50		19 Nov 2020 23:00	22 Nov 2020 19:13	1
HS20110870-17	Duplicate-2	13 Nov 2020 00:00		19 Nov 2020 23:00	22 Nov 2020 19:37	1
Batch ID: 160071 (0)	**Test Name :** ANIONS BY E300.0				**Matrix:** Soil	
HS20110870-01	SB-2-0-2	11 Nov 2020 13:30		24 Nov 2020 17:34	02 Dec 2020 04:15	1
HS20110870-02	SB-2-20-22	11 Nov 2020 14:30		24 Nov 2020 17:34	02 Dec 2020 04:33	1
HS20110870-03	SB-2-80-82	12 Nov 2020 11:05		24 Nov 2020 17:34	02 Dec 2020 04:51	1
HS20110870-04	SB-2-90-92	12 Nov 2020 12:00		24 Nov 2020 17:34	02 Dec 2020 05:09	1
HS20110870-05	SB-2-95-97	12 Nov 2020 12:20		24 Nov 2020 17:34	02 Dec 2020 06:40	1
HS20110870-06	SB-2-100-102	12 Nov 2020 12:55		24 Nov 2020 17:34	02 Dec 2020 07:34	1
HS20110870-07	SB-3-30-32	12 Nov 2020 14:45		24 Nov 2020 17:34	02 Dec 2020 07:53	1
HS20110870-08	SB-3-40-42	12 Nov 2020 15:15		24 Nov 2020 17:34	02 Dec 2020 08:11	1
HS20110870-09	SB-3-50-52	12 Nov 2020 15:45		24 Nov 2020 17:34	02 Dec 2020 08:29	1
HS20110870-10	SB-3-60-62	13 Nov 2020 08:30		24 Nov 2020 17:34	02 Dec 2020 08:47	1
HS20110870-11	SB-3-70-72	13 Nov 2020 09:30		24 Nov 2020 17:34	02 Dec 2020 09:05	1
HS20110870-12	SB-3-80-82	13 Nov 2020 10:05		24 Nov 2020 17:34	02 Dec 2020 09:23	1
HS20110870-13	SB-3-100-102	13 Nov 2020 14:25		24 Nov 2020 17:34	02 Dec 2020 10:36	1
HS20110870-14	SB-3-105-107	13 Nov 2020 15:10		24 Nov 2020 17:34	02 Dec 2020 10:54	1
HS20110870-15	SB-3-110-112	13 Nov 2020 15:50		24 Nov 2020 17:34	02 Dec 2020 11:48	1
HS20110870-17	Duplicate-2	13 Nov 2020 00:00		24 Nov 2020 17:34	02 Dec 2020 12:06	1

ALS Houston, US Date: 02-Dec-20

Client: TRC Corporation
Project: Artesia Station West
WorkOrder: HS20110870

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R373030 (0)	**Test Name :** GASOLINE RANGE ORGANICS BY SW8015C				**Matrix:** Soil	
HS20110870-02	SB-2-20-22	11 Nov 2020 14:30			19 Nov 2020 22:59	1
HS20110870-03	SB-2-80-82	12 Nov 2020 11:05			19 Nov 2020 23:15	1
HS20110870-04	SB-2-90-92	12 Nov 2020 12:00			19 Nov 2020 23:31	1
HS20110870-05	SB-2-95-97	12 Nov 2020 12:20			19 Nov 2020 23:48	1
HS20110870-06	SB-2-100-102	12 Nov 2020 12:55			20 Nov 2020 00:04	1
HS20110870-08	SB-3-40-42	12 Nov 2020 15:15			20 Nov 2020 00:36	1
HS20110870-14	SB-3-105-107	13 Nov 2020 15:10			20 Nov 2020 03:19	1
HS20110870-15	SB-3-110-112	13 Nov 2020 15:50			20 Nov 2020 03:35	1
HS20110870-17	Duplicate-2	13 Nov 2020 00:00			20 Nov 2020 03:52	1
Batch ID: R373160 (0)	**Test Name :** VOLATILES BY SW8260C				**Matrix:** Soil	
HS20110870-01	SB-2-0-2	11 Nov 2020 13:30			22 Nov 2020 21:51	10
HS20110870-02	SB-2-20-22	11 Nov 2020 14:30			22 Nov 2020 14:41	1
HS20110870-03	SB-2-80-82	12 Nov 2020 11:05			22 Nov 2020 15:05	1
HS20110870-04	SB-2-90-92	12 Nov 2020 12:00			22 Nov 2020 15:29	1
HS20110870-05	SB-2-95-97	12 Nov 2020 12:20			22 Nov 2020 15:52	1
HS20110870-06	SB-2-100-102	12 Nov 2020 12:55			22 Nov 2020 16:16	1
HS20110870-07	SB-3-30-32	12 Nov 2020 14:45			22 Nov 2020 20:39	10
HS20110870-08	SB-3-40-42	12 Nov 2020 15:15			22 Nov 2020 20:15	10
HS20110870-09	SB-3-50-52	12 Nov 2020 15:45			22 Nov 2020 21:03	10
HS20110870-10	SB-3-60-62	13 Nov 2020 08:30			22 Nov 2020 21:27	10
HS20110870-11	SB-3-70-72	13 Nov 2020 09:30			22 Nov 2020 16:40	1
HS20110870-12	SB-3-80-82	13 Nov 2020 10:05			22 Nov 2020 17:04	1
HS20110870-13	SB-3-100-102	13 Nov 2020 14:25			22 Nov 2020 13:29	1
HS20110870-14	SB-3-105-107	13 Nov 2020 15:10			22 Nov 2020 17:28	1
HS20110870-15	SB-3-110-112	13 Nov 2020 15:50			22 Nov 2020 17:52	1
HS20110870-17	Duplicate-2	13 Nov 2020 00:00			22 Nov 2020 18:16	1
Batch ID: R373166 (0)	**Test Name :** GASOLINE RANGE ORGANICS BY SW8015C				**Matrix:** Soil	
HS20110870-11	SB-3-70-72	13 Nov 2020 09:30			20 Nov 2020 16:25	1
HS20110870-12	SB-3-80-82	13 Nov 2020 10:05			20 Nov 2020 16:41	1
HS20110870-13	SB-3-100-102	13 Nov 2020 14:25			20 Nov 2020 15:20	1
Batch ID: R373218 (0)	**Test Name :** GASOLINE RANGE ORGANICS BY SW8015C				**Matrix:** Soil	
HS20110870-01	SB-2-0-2	11 Nov 2020 13:30			20 Nov 2020 21:32	50
HS20110870-07	SB-3-30-32	12 Nov 2020 14:45			20 Nov 2020 23:07	100
HS20110870-09	SB-3-50-52	12 Nov 2020 15:45			20 Nov 2020 21:48	100
HS20110870-10	SB-3-60-62	13 Nov 2020 08:30			20 Nov 2020 23:41	100

ALS Houston, US Date: 02-Dec-20

Client: TRC Corporation
Project: Artesia Station West
WorkOrder: HS20110870

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R373339 (0)	**Test Name :** MOISTURE - ASTM D2216				**Matrix:** Soil	
HS20110870-01	SB-2-0-2	11 Nov 2020 13:30			23 Nov 2020 18:00	1
HS20110870-02	SB-2-20-22	11 Nov 2020 14:30			23 Nov 2020 18:00	1
HS20110870-03	SB-2-80-82	12 Nov 2020 11:05			23 Nov 2020 18:00	1
HS20110870-04	SB-2-90-92	12 Nov 2020 12:00			23 Nov 2020 18:00	1
HS20110870-05	SB-2-95-97	12 Nov 2020 12:20			23 Nov 2020 18:00	1
HS20110870-06	SB-2-100-102	12 Nov 2020 12:55			23 Nov 2020 18:00	1
HS20110870-07	SB-3-30-32	12 Nov 2020 14:45			23 Nov 2020 18:00	1
HS20110870-08	SB-3-40-42	12 Nov 2020 15:15			23 Nov 2020 18:00	1
HS20110870-09	SB-3-50-52	12 Nov 2020 15:45			23 Nov 2020 18:00	1
HS20110870-10	SB-3-60-62	13 Nov 2020 08:30			23 Nov 2020 18:00	1
HS20110870-11	SB-3-70-72	13 Nov 2020 09:30			23 Nov 2020 18:00	1
HS20110870-12	SB-3-80-82	13 Nov 2020 10:05			23 Nov 2020 18:00	1
HS20110870-13	SB-3-100-102	13 Nov 2020 14:25			23 Nov 2020 18:00	1
HS20110870-14	SB-3-105-107	13 Nov 2020 15:10			23 Nov 2020 18:00	1
HS20110870-15	SB-3-110-112	13 Nov 2020 15:50			23 Nov 2020 18:00	1
HS20110870-17	Duplicate-2	13 Nov 2020 00:00			23 Nov 2020 18:00	1
Batch ID: R373496 (0)	**Test Name :** VOLATILES - SW8260C				**Matrix:** Water	
HS20110870-16	TB-11132020-2	13 Nov 2020 17:00			26 Nov 2020 20:25	1
Batch ID: R373497 (0)	**Test Name :** VOLATILES BY SW8260C				**Matrix:** Soil	
HS20110870-07	SB-3-30-32	12 Nov 2020 14:45			26 Nov 2020 16:54	50
HS20110870-08	SB-3-40-42	12 Nov 2020 15:15			26 Nov 2020 17:15	50
HS20110870-09	SB-3-50-52	12 Nov 2020 15:45			26 Nov 2020 17:36	50
HS20110870-10	SB-3-60-62	13 Nov 2020 08:30			26 Nov 2020 17:57	50

ALS Houston, US Date: 02-Dec-20

Client: TRC Corporation
Project: Artesia Station West
WorkOrder: HS20110870

QC BATCH REPORT

Batch ID: 159892 (0) **Instrument: FID-8** **Method: TPH DRO/ORO BY SW8015C**

MBLK Sample ID: **MBLK-159892** Units: **mg/Kg** Analysis Date: **22-Nov-2020 13:58**
Client ID: Run ID: **FID-8_373334** SeqNo: **5849483** PrepDate: **19-Nov-2020** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	< 1.7	1.7								
TPH (Motor Oil Range)	< 3.4	3.4								
Surr: 2-Fluorobiphenyl	*2.577*	*0.10*	*3.33*	*0*	*77.4*	*70 - 130*				

LCS Sample ID: **LCS-159892** Units: **mg/Kg** Analysis Date: **22-Nov-2020 14:22**
Client ID: Run ID: **FID-8_373334** SeqNo: **5849484** PrepDate: **19-Nov-2020** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	29.23	1.7	33.33	0	87.7	70 - 130				
TPH (Motor Oil Range)	24.07	3.4	33.33	0	72.2	70 - 130				
Surr: 2-Fluorobiphenyl	*2.514*	*0.10*	*3.33*	*0*	*75.5*	*70 - 130*				

MS Sample ID: **HS20110868-19MS** Units: **mg/Kg** Analysis Date: **22-Nov-2020 15:10**
Client ID: Run ID: **FID-8_373334** SeqNo: **5849486** PrepDate: **19-Nov-2020** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	185.6	17	33.31	58.34	382	70 - 130				S
TPH (Motor Oil Range)	427.5	34	33.31	251.2	529	70 - 130				SO
Surr: 2-Fluorobiphenyl	*3.388*	*1.0*	*3.328*	*0*	*102*	*60 - 129*				

MSD Sample ID: **HS20110868-19MSD** Units: **mg/Kg** Analysis Date: **22-Nov-2020 15:35**
Client ID: Run ID: **FID-8_373334** SeqNo: **5849487** PrepDate: **19-Nov-2020** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	70.38	17	33.2	58.34	36.3	70 - 130	185.6	90	30	SR
TPH (Motor Oil Range)	272.9	34	33.2	251.2	65.3	70 - 130	427.5	44.1	30	SRO
Surr: 2-Fluorobiphenyl	*2.205*	*1.0*	*3.317*	*0*	*66.5*	*60 - 129*	*3.388*	*42.3*	*30*	R

The following samples were analyzed in this batch:

HS20110870-01	HS20110870-02	HS20110870-03	HS20110870-04
HS20110870-05	HS20110870-06	HS20110870-07	HS20110870-08
HS20110870-09	HS20110870-10	HS20110870-11	HS20110870-12
HS20110870-13	HS20110870-14	HS20110870-15	HS20110870-17

ALS Houston, US Date: 02-Dec-20

Client: TRC Corporation
Project: Artesia Station West
WorkOrder: HS20110870

QC BATCH REPORT

Batch ID: R373030 (0) **Instrument:** FID-14 **Method:** GASOLINE RANGE ORGANICS BY SW8015C

MBLK Sample ID: **MBLK-112020** Units: **mg/Kg** Analysis Date: **19-Nov-2020 20:50**
Client ID: Run ID: **FID-14_373030** SeqNo: **5842244** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	< 0.050	0.050								
Surr: 4-Bromofluorobenzene	*0.1073*	*0.0050*	*0.1*	*0*	*107*	*75 - 121*				

LCS Sample ID: **LCS-112020** Units: **mg/Kg** Analysis Date: **19-Nov-2020 20:18**
Client ID: Run ID: **FID-14_373030** SeqNo: **5842242** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.082	0.050	1	0	108	72 - 121				
Surr: 4-Bromofluorobenzene	*0.09045*	*0.0050*	*0.1*	*0*	*90.5*	*75 - 121*				

LCSD Sample ID: **LCSD-112020** Units: **mg/Kg** Analysis Date: **19-Nov-2020 20:34**
Client ID: Run ID: **FID-14_373030** SeqNo: **5842243** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.035	0.050	1	0	104	72 - 121	1.082	4.39	30	
Surr: 4-Bromofluorobenzene	*0.09032*	*0.0050*	*0.1*	*0*	*90.3*	*75 - 121*	*0.09045*	*0.149*	*30*	

MS Sample ID: **HS20110870-13MS** Units: **mg/Kg** Analysis Date: **20-Nov-2020 05:46**
Client ID: **SB-3-100-102** Run ID: **FID-14_373030** SeqNo: **5842262** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.166	0.054	1.09	0.08255	99.4	70 - 130				
Surr: 4-Bromofluorobenzene	*0.07636*	*0.0054*	*0.109*	*0*	*70.1*	*70 - 123*				

MSD Sample ID: **HS20110870-13MSD** Units: **mg/Kg** Analysis Date: **20-Nov-2020 06:02**
Client ID: **SB-3-100-102** Run ID: **FID-14_373030** SeqNo: **5842263** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.156	0.054	1.08	0.08255	99.4	70 - 130	1.166	0.89	30	
Surr: 4-Bromofluorobenzene	*0.07624*	*0.0054*	*0.108*	*0*	*70.6*	*70 - 123*	*0.07636*	*0.155*	*30*	

The following samples were analyzed in this batch:

HS20110870-02	HS20110870-03	HS20110870-04	HS20110870-05
HS20110870-06	HS20110870-08	HS20110870-14	HS20110870-15
HS20110870-17			

ALS Houston, US Date: 02-Dec-20

Client: TRC Corporation
Project: Artesia Station West
WorkOrder: HS20110870

QC BATCH REPORT

Batch ID: R373166 (0) **Instrument: FID-14** **Method: GASOLINE RANGE ORGANICS BY SW8015C**

MBLK Sample ID: **MBLK-112020** Units: **mg/Kg** Analysis Date: **20-Nov-2020 15:04**
Client ID: Run ID: **FID-14_373166** SeqNo: **5845715** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	< 0.050	0.050								
Surr: 4-Bromofluorobenzene	*0.1074*	*0.0050*	*0.1*	*0*	*107*	*75 - 121*				

LCS Sample ID: **LCS-112020** Units: **mg/Kg** Analysis Date: **20-Nov-2020 14:48**
Client ID: Run ID: **FID-14_373166** SeqNo: **5845714** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.144	0.050	1	0	114	72 - 121				
Surr: 4-Bromofluorobenzene	*0.09863*	*0.0050*	*0.1*	*0*	*98.6*	*75 - 121*				

MS Sample ID: **HS20110956-01MS** Units: **mg/Kg** Analysis Date: **20-Nov-2020 16:57**
Client ID: Run ID: **FID-14_373166** SeqNo: **5845722** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	0.4452	0.054	1.08	0	41.2	70 - 130				S
Surr: 4-Bromofluorobenzene	*0.02014*	*0.0054*	*0.108*	*0*	*18.6*	*70 - 123*				S

MSD Sample ID: **HS20110956-01MSD** Units: **mg/Kg** Analysis Date: **20-Nov-2020 17:13**
Client ID: Run ID: **FID-14_373166** SeqNo: **5845723** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	0.4379	0.047	0.94	0	46.6	70 - 130	0.4452	1.65	30	S
Surr: 4-Bromofluorobenzene	*0.01402*	*0.0047*	*0.094*	*0*	*14.9*	*70 - 123*	*0.02014*	*35.8*	*30*	SR

The following samples were analyzed in this batch: HS20110870-11 HS20110870-12 HS20110870-13

ALS Houston, US Date: 02-Dec-20

Client: TRC Corporation
Project: Artesia Station West
WorkOrder: HS20110870

QC BATCH REPORT

Batch ID: R373218 (0) **Instrument: FID-14** **Method: GASOLINE RANGE ORGANICS BY SW8015C**

MBLK Sample ID: **MBLK-112020** Units: **mg/Kg** Analysis Date: **20-Nov-2020 20:13**
Client ID: Run ID: **FID-14_373218** SeqNo: **5846713** PrepDate: DF: **50**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	< 2.5	2.5								
Surr: 4-Bromofluorobenzene	*5.603*	*0.25*	*5*	*0*	*112*	*75 - 121*				

LCS Sample ID: **LCS-112020** Units: **mg/Kg** Analysis Date: **20-Nov-2020 19:25**
Client ID: Run ID: **FID-14_373218** SeqNo: **5846712** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.178	0.050	1	0	118	72 - 121				
Surr: 4-Bromofluorobenzene	*0.1164*	*0.0050*	*0.1*	*0*	*116*	*75 - 121*				

MS Sample ID: **HS20110840-01MS** Units: **mg/Kg** Analysis Date: **20-Nov-2020 20:45**
Client ID: Run ID: **FID-14_373218** SeqNo: **5846715** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.157	0.050	1	0	116	70 - 130				
Surr: 4-Bromofluorobenzene	*0.1087*	*0.0050*	*0.1*	*0*	*109*	*70 - 123*				

MSD Sample ID: **HS20110840-01MSD** Units: **mg/Kg** Analysis Date: **20-Nov-2020 21:00**
Client ID: Run ID: **FID-14_373218** SeqNo: **5846716** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.12	0.050	1	0	112	70 - 130	1.157	3.24	30	
Surr: 4-Bromofluorobenzene	*0.1066*	*0.0050*	*0.1*	*0*	*107*	*70 - 123*	*0.1087*	*1.91*	*30*	

The following samples were analyzed in this batch: HS20110870-01 HS20110870-07 HS20110870-09 HS20110870-10

ALS Houston, US Date: 02-Dec-20

Client: TRC Corporation
Project: Artesia Station West
WorkOrder: HS20110870

QC BATCH REPORT

Batch ID: R373160 (0) **Instrument: VOA5** **Method: VOLATILES BY SW8260C**

MBLK Sample ID: **VBLKS1-112120** Units: **ug/Kg** Analysis Date: **22-Nov-2020 13:06**
Client ID: Run ID: **VOA5_373160** SeqNo: **5845583** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	< 5.0	5.0								
Ethylbenzene	< 5.0	5.0								
Toluene	< 5.0	5.0								
Xylenes, Total	< 5.0	5.0								
Surr: 1,2-Dichloroethane-d4	*42.04*	*0*	*50*	*0*	*84.1*	*76 - 125*				
Surr: 4-Bromofluorobenzene	*47.44*	*0*	*50*	*0*	*94.9*	*80 - 120*				
Surr: Dibromofluoromethane	*44.15*	*0*	*50*	*0*	*88.3*	*80 - 119*				
Surr: Toluene-d8	*49.61*	*0*	*50*	*0*	*99.2*	*81 - 118*				

LCS Sample ID: **VLCSS1-112120** Units: **ug/Kg** Analysis Date: **22-Nov-2020 12:18**
Client ID: Run ID: **VOA5_373160** SeqNo: **5845582** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	48.34	5.0	50	0	96.7	75 - 124				
Ethylbenzene	50.49	5.0	50	0	101	70 - 123				
Toluene	49.12	5.0	50	0	98.2	76 - 122				
Xylenes, Total	151.4	5.0	150	0	101	77 - 128				
Surr: 1,2-Dichloroethane-d4	*47.23*	*0*	*50*	*0*	*94.5*	*76 - 125*				
Surr: 4-Bromofluorobenzene	*49.41*	*0*	*50*	*0*	*98.8*	*80 - 120*				
Surr: Dibromofluoromethane	*47.95*	*0*	*50*	*0*	*95.9*	*80 - 119*				
Surr: Toluene-d8	*49.35*	*0*	*50*	*0*	*98.7*	*81 - 118*				

MS Sample ID: **HS20110870-13MS** Units: **ug/Kg** Analysis Date: **22-Nov-2020 13:53**
Client ID: **SB-3-100-102** Run ID: **VOA5_373160** SeqNo: **5845585** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	39.53	5.0	49.5	0	79.9	70 - 130				
Ethylbenzene	40.25	5.0	49.5	0	81.3	70 - 130				
Toluene	39.78	5.0	49.5	0	80.4	70 - 130				
Xylenes, Total	118.4	5.0	148.5	0	79.8	70 - 130				
Surr: 1,2-Dichloroethane-d4	*48.2*	*0*	*49.5*	*0*	*97.4*	*70 - 126*				
Surr: 4-Bromofluorobenzene	*48.57*	*0*	*49.5*	*0*	*98.1*	*70 - 130*				
Surr: Dibromofluoromethane	*47.73*	*0*	*49.5*	*0*	*96.4*	*70 - 130*				
Surr: Toluene-d8	*47.73*	*0*	*49.5*	*0*	*96.4*	*70 - 130*				

ALS Houston, US Date: 02-Dec-20

Client: TRC Corporation
Project: Artesia Station West
WorkOrder: HS20110870

QC BATCH REPORT

Batch ID: R373160 (0) **Instrument: VOA5** **Method: VOLATILES BY SW8260C**

MSD Sample ID: **HS20110870-13MSD** Units: **ug/Kg** Analysis Date: **22-Nov-2020 14:17**
Client ID: **SB-3-100-102** Run ID: **VOA5_373160** SeqNo: **5845586** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	37.12	5.0	50	0	74.2	70 - 130	39.53	6.3	30	
Ethylbenzene	36.68	5.0	50	0	73.4	70 - 130	40.25	9.29	30	
Toluene	36.48	5.0	50	0	73.0	70 - 130	39.78	8.65	30	
Xylenes, Total	108.6	5.0	150	0	72.4	70 - 130	118.4	8.71	30	
Surr: 1,2-Dichloroethane-d4	*47.44*	*0*	*50*	*0*	*94.9*	*70 - 126*	*48.2*	*1.58*	*30*	
Surr: 4-Bromofluorobenzene	*49.29*	*0*	*50*	*0*	*98.6*	*70 - 130*	*48.57*	*1.47*	*30*	
Surr: Dibromofluoromethane	*46.65*	*0*	*50*	*0*	*93.3*	*70 - 130*	*47.73*	*2.3*	*30*	
Surr: Toluene-d8	*48.95*	*0*	*50*	*0*	*97.9*	*70 - 130*	*47.73*	*2.53*	*30*	

The following samples were analyzed in this batch:

HS20110870-01	HS20110870-02	HS20110870-03	HS20110870-04
HS20110870-05	HS20110870-06	HS20110870-07	HS20110870-08
HS20110870-09	HS20110870-10	HS20110870-11	HS20110870-12
HS20110870-13	HS20110870-14	HS20110870-15	HS20110870-17

ALS Houston, US Date: 02-Dec-20

Client: TRC Corporation
Project: Artesia Station West
WorkOrder: HS20110870

QC BATCH REPORT

Batch ID: R373496 (0) **Instrument:** VOA6 **Method:** VOLATILES - SW8260C

MBLK Sample ID: **VBLKW-201126** Units: **ug/L** Analysis Date: **26-Nov-2020 12:20**
Client ID: Run ID: **VOA6_373496** SeqNo: **5853410** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	< 5.0	5.0								
Ethylbenzene	< 5.0	5.0								
m,p-Xylene	< 10	10								
o-Xylene	< 5.0	5.0								
Toluene	< 5.0	5.0								
Xylenes, Total	< 5.0	5.0								
Surr: 1,2-Dichloroethane-d4	*42.57*	*0*	*50*	*0*	*85.1*	*70 - 130*				
Surr: 4-Bromofluorobenzene	*42.83*	*0*	*50*	*0*	*85.7*	*82 - 115*				
Surr: Dibromofluoromethane	*44.47*	*0*	*50*	*0*	*88.9*	*73 - 126*				
Surr: Toluene-d8	*50.49*	*0*	*50*	*0*	*101*	*81 - 120*				

LCS Sample ID: **VLCSW-201126** Units: **ug/L** Analysis Date: **26-Nov-2020 11:17**
Client ID: Run ID: **VOA6_373496** SeqNo: **5853409** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	20.3	5.0	20	0	101	74 - 120				
Ethylbenzene	17.69	5.0	20	0	88.4	77 - 117				
m,p-Xylene	37.18	10	40	0	92.9	77 - 122				
o-Xylene	18.95	5.0	20	0	94.8	75 - 119				
Toluene	18.14	5.0	20	0	90.7	77 - 118				
Xylenes, Total	56.13	5.0	60	0	93.6	75 - 122				
Surr: 1,2-Dichloroethane-d4	*50.67*	*0*	*50*	*0*	*101*	*70 - 130*				
Surr: 4-Bromofluorobenzene	*48.39*	*0*	*50*	*0*	*96.8*	*82 - 115*				
Surr: Dibromofluoromethane	*50.64*	*0*	*50*	*0*	*101*	*73 - 126*				
Surr: Toluene-d8	*48.99*	*0*	*50*	*0*	*98.0*	*81 - 120*				

ALS Houston, US Date: 02-Dec-20

Client: TRC Corporation
Project: Artesia Station West
WorkOrder: HS20110870

QC BATCH REPORT

Batch ID: R373496 (0) **Instrument: VOA6** **Method: VOLATILES - SW8260C**

MS Sample ID: **HS20110813-11MS** Units: **ug/L** Analysis Date: **26-Nov-2020 14:06**
Client ID: Run ID: **VOA6_373496** SeqNo: **5853412** PrepDate: DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	83.32	25	100	0	83.3	70 - 127				
Ethylbenzene	96.07	25	100	0	96.1	70 - 124				
m,p-Xylene	182.9	50	200	0	91.4	70 - 130				
o-Xylene	93.67	25	100	0	93.7	70 - 124				
Toluene	91.03	25	100	0	91.0	70 - 123				
Xylenes, Total	276.5	25	300	0	92.2	70 - 130				
Surr: 1,2-Dichloroethane-d4	*209*	*0*	*250*	*0*	*83.6*	*70 - 126*				
Surr: 4-Bromofluorobenzene	*237.9*	*0*	*250*	*0*	*95.2*	*82 - 124*				
Surr: Dibromofluoromethane	*224.6*	*0*	*250*	*0*	*89.9*	*77 - 123*				
Surr: Toluene-d8	*254.3*	*0*	*250*	*0*	*102*	*82 - 127*				

MSD Sample ID: **HS20110813-11MSD** Units: **ug/L** Analysis Date: **26-Nov-2020 14:27**
Client ID: Run ID: **VOA6_373496** SeqNo: **5853413** PrepDate: DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	81.45	25	100	0	81.5	70 - 127	83.32	2.26	20	
Ethylbenzene	85.36	25	100	0	85.4	70 - 124	96.07	11.8	20	
m,p-Xylene	173.4	50	200	0	86.7	70 - 130	182.9	5.3	20	
o-Xylene	86.4	25	100	0	86.4	70 - 124	93.67	8.07	20	
Toluene	84.8	25	100	0	84.8	70 - 123	91.03	7.09	20	
Xylenes, Total	259.8	25	300	0	86.6	70 - 130	276.5	6.23	20	
Surr: 1,2-Dichloroethane-d4	*212*	*0*	*250*	*0*	*84.8*	*70 - 126*	*209*	*1.45*	*20*	
Surr: 4-Bromofluorobenzene	*231.8*	*0*	*250*	*0*	*92.7*	*82 - 124*	*237.9*	*2.61*	*20*	
Surr: Dibromofluoromethane	*224.7*	*0*	*250*	*0*	*89.9*	*77 - 123*	*224.6*	*0.0441*	*20*	
Surr: Toluene-d8	*249*	*0*	*250*	*0*	*99.6*	*82 - 127*	*254.3*	*2.11*	*20*	

The following samples were analyzed in this batch: HS20110870-16

ALS Houston, US Date: 02-Dec-20

Client: TRC Corporation
Project: Artesia Station West
WorkOrder: HS20110870

QC BATCH REPORT

Batch ID: R373497 (0) **Instrument: VOA6** **Method: VOLATILES BY SW8260C**

MBLK Sample ID: **VBLKM-201126** Units: **ug/Kg** Analysis Date: **26-Nov-2020 11:59**
Client ID: Run ID: **VOA6_373497** SeqNo: **5853405** PrepDate: DF: **50**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethylbenzene	< 250	250								
Toluene	< 250	250								
Xylenes, Total	< 250	250								
Surr: 1,2-Dichloroethane-d4	*2180*	*0*	*2500*	*0*	*87.2*	*76 - 125*				
Surr: 4-Bromofluorobenzene	*2256*	*0*	*2500*	*0*	*90.2*	*80 - 120*				
Surr: Dibromofluoromethane	*2255*	*0*	*2500*	*0*	*90.2*	*80 - 119*				
Surr: Toluene-d8	*2498*	*0*	*2500*	*0*	*99.9*	*81 - 118*				

LCS Sample ID: **VLCSW-201126** Units: **ug/L** Analysis Date: **26-Nov-2020 11:17**
Client ID: Run ID: **VOA6_373497** SeqNo: **5853386** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethylbenzene	17.69	5.0	20	0	88.4	77 - 117				
Toluene	18.14	5.0	20	0	90.7	77 - 118				
Xylenes, Total	56.13	5.0	60	0	93.6	75 - 122				
Surr: 1,2-Dichloroethane-d4	*50.67*	*0*	*50*	*0*	*101*	*70 - 130*				
Surr: 4-Bromofluorobenzene	*48.39*	*0*	*50*	*0*	*96.8*	*82 - 115*				
Surr: Dibromofluoromethane	*50.64*	*0*	*50*	*0*	*101*	*73 - 126*				
Surr: Toluene-d8	*48.99*	*0*	*50*	*0*	*98.0*	*81 - 120*				

MS Sample ID: **HS20110813-11MS** Units: **ug/L** Analysis Date: **26-Nov-2020 14:06**
Client ID: Run ID: **VOA6_373497** SeqNo: **5853388** PrepDate: DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethylbenzene	96.07	25	100	0	96.1	70 - 124				
Toluene	91.03	25	100	0	91.0	70 - 123				
Xylenes, Total	276.5	25	300	0	92.2	70 - 130				
Surr: 1,2-Dichloroethane-d4	*209*	*0*	*250*	*0*	*83.6*	*70 - 126*				
Surr: 4-Bromofluorobenzene	*237.9*	*0*	*250*	*0*	*95.2*	*82 - 124*				
Surr: Dibromofluoromethane	*224.6*	*0*	*250*	*0*	*89.9*	*77 - 123*				
Surr: Toluene-d8	*254.3*	*0*	*250*	*0*	*102*	*82 - 127*				

ALS Houston, US Date: 02-Dec-20

Client: TRC Corporation
Project: Artesia Station West
WorkOrder: HS20110870

QC BATCH REPORT

Batch ID: R373497 (0) **Instrument: VOA6** **Method: VOLATILES BY SW8260C**

MSD Sample ID: **HS20110813-11MSD** Units: **ug/L** Analysis Date: **26-Nov-2020 14:27**
Client ID: Run ID: **VOA6_373497** SeqNo: **5853389** PrepDate: DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Ethylbenzene	85.36	25	100	0	85.4	70 - 124	96.07	11.8	20	
Toluene	84.8	25	100	0	84.8	70 - 123	91.03	7.09	20	
Xylenes, Total	259.8	25	300	0	86.6	70 - 130	276.5	6.23	20	
Surr: 1,2-Dichloroethane-d4	*212*	*0*	*250*	*0*	*84.8*	*70 - 126*	*209*	*1.45*	*20*	
Surr: 4-Bromofluorobenzene	*231.8*	*0*	*250*	*0*	*92.7*	*82 - 124*	*237.9*	*2.61*	*20*	
Surr: Dibromofluoromethane	*224.7*	*0*	*250*	*0*	*89.9*	*77 - 123*	*224.6*	*0.0441*	*20*	
Surr: Toluene-d8	*249*	*0*	*250*	*0*	*99.6*	*82 - 127*	*254.3*	*2.11*	*20*	

The following samples were analyzed in this batch: HS20110870-07 HS20110870-08 HS20110870-09 HS20110870-10

ALS Houston, US Date: 02-Dec-20

Client: TRC Corporation
Project: Artesia Station West
WorkOrder: HS20110870

QC BATCH REPORT

Batch ID: 160071 (0) **Instrument: ICS2100** **Method: ANIONS BY E300.0**

MBLK Sample ID: **MBLK-160071** Units: **mg/Kg** Analysis Date: **01-Dec-2020 16:53**
Client ID: Run ID: **ICS2100_373780** SeqNo: **5859999** PrepDate: **24-Nov-2020** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	< 5.00	5.00								

LCS Sample ID: **LCS-160071** Units: **mg/Kg** Analysis Date: **01-Dec-2020 17:09**
Client ID: Run ID: **ICS2100_373780** SeqNo: **5860000** PrepDate: **24-Nov-2020** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	202.4	5.00	200	0	101	90 - 110				

MS Sample ID: **HS20110870-14MS** Units: **mg/Kg** Analysis Date: **02-Dec-2020 11:12**
Client ID: **SB-3-105-107** Run ID: **ICS2100_373780** SeqNo: **5860027** PrepDate: **24-Nov-2020** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	163.1	4.98	99.69	56.35	107	75 - 125				

MS Sample ID: **HS20110870-05MS** Units: **mg/Kg** Analysis Date: **02-Dec-2020 06:58**
Client ID: **SB-2-95-97** Run ID: **ICS2100_373780** SeqNo: **5860014** PrepDate: **24-Nov-2020** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	709.9	4.98	99.53	676.5	33.5	75 - 125				SO

MSD Sample ID: **HS20110870-14MSD** Units: **mg/Kg** Analysis Date: **02-Dec-2020 11:30**
Client ID: **SB-3-105-107** Run ID: **ICS2100_373780** SeqNo: **5860028** PrepDate: **24-Nov-2020** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	148.7	4.98	99.63	56.35	92.7	75 - 125	163.1	9.24	20	

MSD Sample ID: **HS20110870-05MSD** Units: **mg/Kg** Analysis Date: **02-Dec-2020 07:16**
Client ID: **SB-2-95-97** Run ID: **ICS2100_373780** SeqNo: **5860015** PrepDate: **24-Nov-2020** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	842.9	4.99	99.84	676.5	167	75 - 125	709.9	17.1	20	SO

The following samples were analyzed in this batch:

HS20110870-01	HS20110870-02	HS20110870-03	HS20110870-04
HS20110870-05	HS20110870-06	HS20110870-07	HS20110870-08
HS20110870-09	HS20110870-10	HS20110870-11	HS20110870-12
HS20110870-13	HS20110870-14	HS20110870-15	HS20110870-17

ALS Houston, US Date: 02-Dec-20

Client: TRC Corporation
Project: Artesia Station West
WorkOrder: HS20110870

QC BATCH REPORT

Batch ID: R373339 (0) **Instrument:** Balance1 **Method:** MOISTURE - ASTM D2216

DUP Sample ID: **HS20110882-03DUP** Units: **wt%** Analysis Date: **23-Nov-2020 18:00**
Client ID: Run ID: **Balance1_373339** SeqNo: **5849621** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Percent Moisture	21.5	0.0100					21.8	1.39	20	

The following samples were analyzed in this batch:

HS20110870-01	HS20110870-02	HS20110870-03	HS20110870-04
HS20110870-05	HS20110870-06	HS20110870-07	HS20110870-08
HS20110870-09	HS20110870-10	HS20110870-11	HS20110870-12
HS20110870-13	HS20110870-14	HS20110870-15	HS20110870-17

ALS Houston, US Date: 02-Dec-20

Client: TRC Corporation
Project: Artesia Station West
WorkOrder: **HS20110870**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
mg/Kg	Milligrams per Kilogram
mg/L	Milligrams per Liter

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	20-030-0	26-Mar-2021
California	2919, 2020-2021	30-Apr-2021
Dept of Defense	PJLA L20-507	22-Dec-2021
Florida	E87611-30-07/01/2020	30-Jun-2021
Illinois	2000322020-4	09-May-2021
Kansas	E-10352 2020-2021	31-Jul-2021
Kentucky	123043, 2020-2021	30-Apr-2021
Louisiana	03087, 2020-2021	30-Jun-2021
North Carolina	624-2020	31-Dec-2020
North Dakota	R-193 2020-2021	30-Apr-2021
Texas	T104704231-20-26	30-Apr-2021

ALS Houston, US Date: 02-Dec-20

Client: TRC Corporation
Project: Artesia Station West
Work Order: HS20110870

SAMPLE TRACKING

Lab Samp ID	Client Sample ID	Action	Date	Person	New Location
HS20110870-01	SB-2-0-2	Login	11/17/2020 4:52:02 PM	PJM	VOA113
HS20110870-01	SB-2-0-2	Login	11/17/2020 4:52:02 PM	PJM	SPA032
HS20110870-02	SB-2-20-22	Login	11/17/2020 4:52:02 PM	PJM	VOA113
HS20110870-02	SB-2-20-22	Login	11/17/2020 4:52:02 PM	PJM	SPA032
HS20110870-03	SB-2-80-82	Login	11/17/2020 4:52:02 PM	PJM	VOA113
HS20110870-03	SB-2-80-82	Login	11/17/2020 4:52:02 PM	PJM	SPA032
HS20110870-04	SB-2-90-92	Login	11/17/2020 4:52:02 PM	PJM	VOA113
HS20110870-04	SB-2-90-92	Login	11/17/2020 4:52:02 PM	PJM	SPA032
HS20110870-05	SB-2-95-97	Login	11/17/2020 4:52:02 PM	PJM	VOA113
HS20110870-05	SB-2-95-97	Login	11/17/2020 4:52:02 PM	PJM	SPA032
HS20110870-06	SB-2-100-102	Login	11/17/2020 4:52:02 PM	PJM	VOA113
HS20110870-06	SB-2-100-102	Login	11/17/2020 4:52:02 PM	PJM	SPA032
HS20110870-07	SB-3-30-32	Login	11/17/2020 4:52:02 PM	PJM	VOA113
HS20110870-07	SB-3-30-32	Login	11/17/2020 4:52:02 PM	PJM	SPA032
HS20110870-08	SB-3-40-42	Login	11/17/2020 4:52:02 PM	PJM	VOA113
HS20110870-08	SB-3-40-42	Login	11/17/2020 4:52:02 PM	PJM	SPA032
HS20110870-09	SB-3-50-52	Login	11/17/2020 4:52:02 PM	PJM	VOA113
HS20110870-09	SB-3-50-52	Login	11/17/2020 4:52:02 PM	PJM	SPA032
HS20110870-10	SB-3-60-62	Login	11/17/2020 4:52:02 PM	PJM	VOA113
HS20110870-10	SB-3-60-62	Login	11/17/2020 4:52:02 PM	PJM	SPA032
HS20110870-11	SB-3-70-72	Login	11/17/2020 4:52:02 PM	PJM	VOA113
HS20110870-11	SB-3-70-72	Login	11/17/2020 4:52:02 PM	PJM	SPA032
HS20110870-12	SB-3-80-82	Login	11/17/2020 4:52:02 PM	PJM	VOA113
HS20110870-12	SB-3-80-82	Login	11/17/2020 4:52:02 PM	PJM	SPA032
HS20110870-13	SB-3-100-102	Login	11/17/2020 4:52:02 PM	PJM	VOA113
HS20110870-13	SB-3-100-102	Login	11/17/2020 4:52:02 PM	PJM	SPA032
HS20110870-14	SB-3-105-107	Login	11/17/2020 4:52:02 PM	PJM	VOA113
HS20110870-14	SB-3-105-107	Login	11/17/2020 4:52:02 PM	PJM	SPA032
HS20110870-16	TB-11132020-2	Login	11/17/2020 4:52:02 PM	PJM	VOA129
HS20110870-17	Duplicate-2	Login	11/17/2020 4:52:02 PM	PJM	VOA113
HS20110870-17	Duplicate-2	Login	11/17/2020 4:52:02 PM	PJM	SPA032

ALS Houston, US Date: 02-Dec-20

Sample Receipt Checklist

Work Order ID: HS20110870 **Date/Time Received:** 17-Nov-2020 09:40

Client Name: TRC-AUS **Received by:** Jared R. Makan

Completed By: /S/ Pablo Marinez 17-Nov-2020 16:36 **Reviewed by:** /S/ RJ Modashia 18-Nov-2020 09:04

eSignature Date/Time eSignature Date/Time

Matrices: **SOIL/WATER** Carrier name: **FedEx**

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	2 Page(s)
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	COC IDs:233491/233490
Samplers name present on COC?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	1.2C UC/C	IR 31	
Cooler(s)/Kit(s):	46602		
Date/Time sample(s) sent to storage:	11/17/20 17:10		
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

Cincinnati, OH +1 513 733 5336
Everett, WA +1 425 356 2600
Fort Collins, CO +1 970 490 1511
Holland, MI +1 616 399 6070

Chain of Custody Form

Page 1 of 2

COC ID: 233491

HS20110870

TRC Corporation
Artesia Station West
, WV

ALS Project Manager:

Customer Information		Project Information	
Purchase Order		Project Name	Artesia Station West
Work Order		Project Number	
Company Name	TRC Corporation	Bill To Company	TRC Corporation
Send Report To	Richard (RD) Varnell	Invoice Attn	TRC-AP
Address	505 East Huntland Drive Suite 250	Address	505 East Huntland Drive Suite 250
City/State/Zip	Austin, TX 78752	City/State/Zip	Austin TX 78752
Phone	(512) 329-6080	Phone	(512) 329-6080
Fax	(512) 329-8750	Fax	(512) 329-8750
e-Mail Address	RVarnell@trccompanies.com	e-Mail Address	apinvoiceapproval@trcsolutions.com

A	8260 (BTEX)
B	8015 (DRO/ORO)
C	8015 (GRO)
D	300 (Chloride)
E	TDS_W 2540C (TDS)
F	MOIST_SW3550 (Percent Moisture)
G	Full TCLP (TCLP VOC, SVOC, RCRA 8 Metals)
H	RCRA Chararcteristics (RCI Profile)
I	TX1005_S_REV3 (TPH)
J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	SB-2-0-2	11.11.20	1330	Soil	none	2	X	X	X	X		X					
2	SB-2-20-22	11.11.20	1430	Soil	none	2	X	X	X	X		X					
3	SB-2-80-82	11.12.20	1105	Soil	none	2	X	X	X	X		X					
4	SB-2-90-92	11.12.20	1200	Soil	none	2	X	X	X	X		X					
5	SB-2-95-97	11.12.20	1220	Soil	none	2	X	X	X	X		X					
6	SB-2-100-102	11.12.20	1255	Soil	none	2	X	X	X	X		X					
7	SB-3-30-32	11.12.20	1445	Soil	none	2	X	X	X	X		X					
8	SB-3-40-42	11.12.20	1515	Soil	none	2	X	X	X	X		X					
9	SB-3-50-52	11.12.20	1545	Soil	none	2	X	X	X	X		X					
10	SB-3-60-62	11.13.20	0830	Soil	none	2	X	X	X	X		X					

Sampler(s) Please Print & Sign: Jacob Stoffel

Shipment Method: FedEx

Required Turnaround Time: (Check Box) [X] STD 10 Wk Days [ ] 5 Wk Days [ ] 2 Wk Days [ ] 24 Hour [ ] Other

Results Due Date: * Samples close to hold

Relinquished by:	Date: 11/16/20	Time: 1200	Received by:	
Relinquished by:	Date:	Time:	Received by (Laboratory): SM PM 11-17-20 9:40	
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	

Notes: Artesia Station West

Cooler ID	Cooler Temp.
46602	1.2C

QC Package: (Check One Box Below)
[X] Level II Std QC
[ ] Level III Std QC/Raw Date
[ ] Level IV SW846/CLP
[ ] Other
[ ] TRRP Checklist
[ ] TRRP Level IV

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

IR31 CF0

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

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Fort Collins, CO +1 970 490 1511
Holland, MI +1 616 399 6070

Chain of Custody Form

Page 2 of 2

COC ID: 233490

HS20110870 WV

TRC Corporation
Artesia Station West

ALS Project Manager:

Customer Information		Project Information	
Purchase Order		Project Name	Artesia Station West
Work Order		Project Number	
Company Name	TRC Corporation	Bill To Company	TRC Corporation
Send Report To	Richard (RD) Varnell	Invoice Attn	TRC-AP
Address	505 East Huntland Drive Suite 250	Address	505 East Huntland Drive Suite 250
City/State/Zip	Austin, TX 78752	City/State/Zip	Austin TX 78752
Phone	(512) 329-6080	Phone	(512) 329-6080
Fax	(512) 329-8750	Fax	(512) 329-8750
e-Mail Address	RVarnell@trccompanies.com	e-Mail Address	apinvoiceapproval@trcsolutions.com

A	8260 (BTEX)
B	8015 (DRO/ORO)
C	8015 (GRO)
D	300 (Chloride)
E	TDS_W 2540C (TDS)
F	MOIST_SW3550 (Percent Moisture)
G	Full TCLP (TCLP VOC, SVOC, RCRA 8 Metals)
H	RCRA Chararcteristics (RCI Profile)
I	TX1005_S_REV3 (TPH)
J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	SB-3-70-72	11.13.20	0930	soil	none	2	X	X	X	X		X					
2	SB-3-80-82	11.13.20	1005	soil	none	2	X	X	X	X		X					
3	SB-3-100-102	11.13.20	1425	soil	none	2	X	X	X	X		X					
4	SB-3-105-107	11.13.20	1510	soil	none	2	X	X	X	X		X					
5	SB-3-110-112	11.13.20	1550	soil	none	2	X	X	X	X		X					
6	TB-11132020-1	11.13.20	1700	water	HCl	2	X										
7	Duplicate-2	11.13.20	—	soil	none	2	X	X	X	X		X					
8																	
9																	
10																	

Sampler(s) Please Print & Sign: Jared Stoffel

Shipment Method: Fed Ex

Required Turnaround Time: (Check Box) [X] STD 10 Wk Days [ ] 5 Wk Days [ ] 2 Wk Days [ ] 24 Hour [ ] Other

Results Due Date: * samples close to hold

Relinquished by:	Date:	Time:	Received by:
	11/16/20	1200	
Relinquished by:	Date:	Time:	Received by (Laboratory):
			JM PM 11-17-20 9:40
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):

Notes: Artesia Station West

Cooler ID	Cooler Temp.
46602	

QC Package: (Check One Box Below)

- [X] Level II Std QC
- [ ] Level III Std QC/Raw Data
- [ ] Level IV SW846/CLP
- [ ] Other
- [ ] TRRP Checklist
- [ ] TRRP Level IV

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

Analytical Data Review Checklist

Site: Tank 970 / Artesia Station West Location: Depco Road, Eddy County, NM Client Name: HEP-Operating, LP Project #: 390691	Laboratory: ALS Lab Report #: HS20120540	QA Reviewer: R Varnell Date: 12/31/2020
Analytical Method(s): EPA Methods 8015M, 8260, E300, and 3550.	Matrices Sampled: Soil, water (trip blank)	Sample Collection Date(s): 12/8/2020
Sampling Objective(s): Delineate impacted media		
Sample IDs: (list IDs or attach COC): Please see attached COC.		

	Review Item or Question	Y	N	NA	Comments[1]
Sample Traceability / Chain of Custody					
1	Were COC forms appropriately completed?	X			
2	Did the laboratory report correct sample IDs?	X			
3	Do the laboratory reported sample collection dates and times agree with the COC forms?	X			
Sample Preservation and Integrity					
4	Did samples arrive at the laboratory appropriately preserved?	X			EnCore sample collection not required.
	Was the cooler temperature between 0-6°C?	X			
	Was acid used for preservation when required (e.g., aqueous VOC and metals samples)?			X	
	Were soil/sediment VOC samples preserved in the field or collected in EnCore® samplers?			X	
5	Were samples received by the laboratory in an acceptable condition (i.e., no breakages, leaks, etc.)?	X			
6	Were any issues noted by the laboratory upon receipt?		X		
7	Were sample preparation and analysis holding time requirements met?	X			
8	AIR ONLY: Were canisters received with an acceptable vacuum? Were the RPDs between the initial and final canister flow controller calibrations <20?			X	
Data Completeness					
9	Are results reported for all analytical methods requested?	X			
10	Are results reported for all samples submitted for analysis?	X			
11	Were the requested analytical methods used?	X			
12	Are results reported for all target analytes, but no additional analytes?	X			
13	Were soil/sediment results reported on a dry weight basis?	X			

Analytical Data Review Checklist

	Review Item or Question	Y	N	NA	Comments[1]
14	If requested, were detected results below the reporting limit (i.e., "J" values) reported?	X			
15	Did we receive the required deliverables (e.g., EDD, Level 4 data, laboratory certification, etc.) in the correct formats?	X			
Sensitivity					
16	Do the reporting limits meet the project specifications (e.g., QAPP or Work Plan)?	X			
17	Were dilutions performed? If so, note sample(s) and parameter(s) affected and the dilution factor(s).	X			Dilutions on multiple samples due to high contaminant concentrations.
18	Did the laboratory provide an adequate explanation as to why dilutions were performed?	X			High Contaminant Concentration.
QC Results					
19	Were any target analytes detected in the method blanks? If yes, list contaminants, concentrations detected and associated samples.		X		
20	Does each analytical or preparation batch have its own method blank?	X			
21	Were any target analytes detected in the field blank(s) (e.g., trip blanks, equipment blanks)? If yes, list contaminants, concentrations detected and associated samples (or attach field blank results).		X		
22	Are there any potential false positive results based on questions 19 and/or 21? If concentrations of contaminants in associated samples are ≤10x the blank concentration for common laboratory contaminants and ≤5x the blank concentration for other contaminants, sample result is most likely a false positive. [2] Common blank contaminants: methylene chloride, acetone, 2-butanone, phthalates.		X		
23	Are LCS/LCSD recoveries within QC limits[3]? If no, list analytes affected, the LCS/LCSD recoveries and the affected samples.	X			
24	Does each analytical or preparation batch have its own LCS?	X			
25	Are LCS/LCSD RPDs within QC limits[3]? If no, list analytes affected, the RPDs and the affected samples.	X			

TRC

Analytical Data Review Checklist

	Review Item or Question	Y	N	NA	Comments[1]
26	Are MS/MSD recoveries within QC limits[3]? NOTE: If not performed on a project sample, evaluation is not required. If no, list analytes affected, the MS/MSD recoveries and the sample that was spiked.		X		The MS/MSD pair for Batch 160667 (HS20120540-02MS/MSD) had a low percent recovery of DRO in the MS and MSD. Recovery of MRO was low in the MS and high in the MSD. This is likely due to the spike being roughly 2 orders of magnitude less than the reported concentrations of DRO and MRO in the spiked sample. Recoveries of these COCs in the LCS were within specifications, so no data qualification was necessary. The percent recovery for GRO in the MS/MSD for batch R375187 were both low. Recovery of this COCs in the LCS was within specifications, so no data qualification was necessary. Note: some MS/MSD pairs were not from this site, so QA/QC data from those MS/MSD results are not applicable to this data set.
27	Are MS/MSD RPDs within QC limits[3]? NOTE: If not performed on a project sample, evaluation is not required, If no, list analytes affected, the RPDs and the sample that was spiked.	X			Note: some MS/MSD pairs were not from this site, so QA/QC data from those MS/MSD results are not applicable to this data set.
28	Are laboratory duplicate RPDs within QC limits[3]? NOTE: If not performed on a project sample, evaluation is not required. If no, list analytes affected, the RPDs and the sample that was prepared/analyzed in duplicate.	X			
29	Are field duplicate RPDs within QC limits? If no, list analytes affected, the RPDs and the associated samples. NOTE: Typical criteria[4] are RPD ≤50 for solid samples and RPD ≤30 for aqueous and air samples when results are >2x the reporting limit; otherwise these criteria are doubled. However, project-specific or regulatory-based criteria may supersede these criteria.		X		RPDs for ethylbenzene, toluene, and total xylenes were all >50. However, the absolute differences between the results were not great. Data not qualified based on good LCS and MS/MSD data.
30	ORGANIC ANALYSES ONLY: Are surrogate recoveries within QC limits[3]? If no, list samples, surrogate recoveries and analytes affected.		X		See lab QC sheet. Surrogate recoveries did not result in need to qualify data.
Laboratory Comments					
31	Did the case narrative describe any analytical anomalies (i.e., problems or unique occurrences)? If yes, list the comments that have potential impact to sample results (or attach case narrative and highlight the comments that have potential impact to sample results).		X		
32	Were any other potential data quality issues identified? If yes, describe issues.		X		
Do the Data Make Sense?					

Analytical Data Review Checklist

	Review Item or Question	Y	N	NA	Comments[1]
33	Do any results look questionable? If yes, ASK THE LAB!	X			The TPH GRO concentration reported in sample SB-4 (20-22') was 11,000 mg/kg, a value approximately twice as large as the combined sum of the DRO + MRO portions of the TPH. Since this result did not fit the profile of other results reported for the Site, TRC questioned the validity of this data point. ALS Laboratory re-extracted and reanalyzed the sample on December 29, 2020 (7 days out of hold). The GRO concentration reported in the reanalyzed sample was 1,800 mg/kg, which is within the range of other reported concentrations at the Site and appears to be more representative of the impacts found elsewhere at the Site. ALS reviewed the documentation from the initial analysis of SB-4 (20-22') and could not find any issues with the analysis. At TRC's request both data points are reported in HS20120540.
34	Has the EDD been compared with the lab report?		X		EDD not used to create data tables.

(1) Comments generally need to be addressed in the TRC deliverable presenting the laboratory data but this will be dependent on project requirements.
(2) Check if local or regional criteria for blank assessments are available; these will supersede criteria in this checklist.
(3) Use QC limits in QAPP, if available. If not, use QC limits provided by laboratory in data package.
(4) EPA New England Environmental Data Review Supplement for Regional Data Review Elements and Superfund Guidance/Procedures, April 22, 2013.

COC = Chain-of-Custody
EDD = Electronic Data Deliverable
LCS/LCSD = Laboratory Control Sample / Laboratory Control Sample Duplicate
MS/MSD = Matrix Spike / Matrix Spike Duplicate
QAPP = Quality Assurance Project Plan
QC = Quality Control
RPD = Relative Percent Difference = |(A-B)/((A+B)/2)|
VOC = Volatile Organic Compounds

NOTE: After data tables are created, check that reporting limits are below the project action levels (e.g., screening criteria, remediation standards, etc.) and compare data with historical results, if applicable.

Additional Comments:

Richard Vandell

January 25, 2021

SUMMARY OF DATA VALIDATION RPD CALCULATIONS FOR FIELD DUPLICATES
FORMER TANK 970 / ARTESIA STATION WEST, EDDY COUNTY, NM

Boring ID	Depth Inteval	Sample Date	Constituent of Concern (COC)									
			BTEX (mg/kg)					TPH (mg/kg)				
			Benzene	Ethyl-benzene	Toluene	Total Xylenes	Total BTEX	GRO	DRO	MRO	TPH	Chloride (mg/kg)
SB-1	Reporting Limit		0.052	0.26	0.26	0.26	NA	0.1	170	340	NA	4.95
	75-77'	11/10/2020	**0.054**	**7.8**	**1.3**	**21**	**30.154**	**82**	**4100**	**2600**	**6782**	**440**
	Duplicate-1	11/10/2020	**4.1**	**8.4**	**2.8**	**21**	**36.3**	**1200**	**1600**	**990**	**3790**	**788**
	RPD		194.80%	7.41%	73.17%	0.00%	18.50%	174.41%	87.72%	89.69%	56.60%	56.68%
SB-3	Reporting Limit		0.0048	0.0048	0.0048	0.0048	NA	0.052	1.7	3.4	NA	4.99
	105-107'	11/13/2020	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0520	<1.70	**8**	**8**	**56.4**
	Duplicate-2	11/13/2020	<0.0051	<0.0051	<0.0051	**0.0059**	**0.0059**	<0.0540	**6.3**	**11**	**17.3**	**46.4**
	RPD		6.06%	6.06%	6.06%	20.56%	20.56%	3.77%	115.00%	31.58%	73.52%	19.46%
SB-14	Reporting Limit		0.0048	0.043	0.043	0.043	NA	0.05	85	170	NA	4.91
	65-67'	12/8/2020	<0.0048	**0.11**	<0.0430	**0.51**	**0.62**	**5**	**590**	**490**	**1085**	**34.6**
	Duplicate-3	12/8/2020	<0.0050	**0.22**	**0.19**	**0.87**	**1.28**	**5.9**	**750**	**640**	**1395.9**	**39.4**
	RPD		4.08%	66.67%	126.18%	52.17%	69.47%	16.51%	23.88%	26.55%	25.06%	12.97%

Detected concentrations reported in bold.
Orange shading represents RPD outside of TRC QC limits.
Duplicate sample data provided immediately below paired assessment sample.

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December 30, 2020

Richard (RD) Varnell
TRC Corporation
505 East Huntland Drive
Suite 250
Austin, TX 78752

Work Order: **HS20120540**

Laboratory Results for: **Artesia Station West**

Dear Richard (RD) Varnell,

ALS Environmental received 24 sample(s) on Dec 10, 2020 for the analysis presented in the following report.

This is a REVISED REPORT. Please see the Case Narrative for discussion concerning this revision.

Regards,

Generated By: RJ.MODASHIA
RJ Modashia
Project Manager

ALS Houston, US Date: 30-Dec-20

Client: TRC Corporation
Project: Artesia Station West
Work Order: HS20120540

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS20120540-01	SB-4-0-2	Soil		08-Dec-2020 08:30	10-Dec-2020 12:55	☐
HS20120540-02	SB-4-5-7	Soil		08-Dec-2020 08:35	10-Dec-2020 12:55	☐
HS20120540-03	SB-4-10-12	Soil		08-Dec-2020 08:45	10-Dec-2020 12:55	☑
HS20120540-04	SB-4-15-17	Soil		08-Dec-2020 08:55	10-Dec-2020 12:55	☑
HS20120540-05	SB-4-20-22	Soil		08-Dec-2020 09:00	10-Dec-2020 12:55	☐
HS20120540-06	SB-4-25-27	Soil		08-Dec-2020 09:05	10-Dec-2020 12:55	☑
HS20120540-07	SB-4-30-32	Soil		08-Dec-2020 09:15	10-Dec-2020 12:55	☐
HS20120540-08	SB-4-35-37	Soil		08-Dec-2020 09:20	10-Dec-2020 12:55	☑
HS20120540-09	SB-4-40-42	Soil		08-Dec-2020 09:25	10-Dec-2020 12:55	☐
HS20120540-10	SB-4-45-47	Soil		08-Dec-2020 09:35	10-Dec-2020 12:55	☑
HS20120540-11	SB-4-50-52	Soil		08-Dec-2020 09:45	10-Dec-2020 12:55	☐
HS20120540-12	SB-4-55-57	Soil		08-Dec-2020 10:00	10-Dec-2020 12:55	☑
HS20120540-13	SB-4-60-62	Soil		08-Dec-2020 10:10	10-Dec-2020 12:55	☑
HS20120540-14	SB-4-65-67	Soil		08-Dec-2020 10:30	10-Dec-2020 12:55	☐
HS20120540-15	SB-4-70-72	Soil		08-Dec-2020 10:45	10-Dec-2020 12:55	☑
HS20120540-16	SB-4-75-77	Soil		08-Dec-2020 11:00	10-Dec-2020 12:55	☐
HS20120540-17	SB-4-80-82	Soil		08-Dec-2020 11:15	10-Dec-2020 12:55	☐
HS20120540-18	SB-4-85-87	Soil		08-Dec-2020 11:35	10-Dec-2020 12:55	☑
HS20120540-19	SB-4-90-92	Soil		08-Dec-2020 11:55	10-Dec-2020 12:55	☐
HS20120540-20	SB-4-95-97	Soil		08-Dec-2020 12:10	10-Dec-2020 12:55	☐
HS20120540-21	SB-4-100-102	Soil		08-Dec-2020 12:25	10-Dec-2020 12:55	☐
HS20120540-22	Duplicate-3	Soil		08-Dec-2020 00:00	10-Dec-2020 12:55	☐
HS20120540-23	TB-12082020-1	Water	VBLKW-112520-46	08-Dec-2020 13:00	10-Dec-2020 12:55	☐
HS20120540-24	TB-12082020-2	Water	VBLKW-112520-47	08-Dec-2020 13:00	10-Dec-2020 12:55	☑

Revision:1

ALS Houston, US Date: 30-Dec-20

Client: TRC Corporation **CASE NARRATIVE**
Project: Artesia Station West
Work Order: HS20120540

Work Order Comments

- REV01: Revised to report re-analysis results for sample HS20120540-05 (SB-4-20-22). Sample was re-analyzed out of hold per client request due to results not matching historical data

GC Semivolatiles by Method SW8015M

Batch ID: 160667

Sample ID: Duplicate-3 (HS20120540-22)

- Surrogate recoveries were outside of the control limits due to matrix interference.

Sample ID: SB-4-20-22 (HS20120540-05)

- The surrogate recoveries could not be determined due to dilution below the calibration range.

Sample ID: SB-4-30-32 (HS20120540-07)

- Surrogate recoveries were outside of the control limits due to matrix interference.

Sample ID: SB-4-40-42 (HS20120540-09)

- Surrogate recoveries were outside of the control limits due to matrix interference.

Sample ID: SB-4-5-7 (HS20120540-02)

- The surrogate recoveries could not be determined due to dilution below the calibration range.

Sample ID: SB-4-50-52 (HS20120540-11)

- The surrogate recoveries could not be determined due to dilution below the calibration range.

Sample ID: SB-4-65-67 (HS20120540-14)

- Surrogate recoveries were outside of the control limits due to matrix interference.

Sample ID: SB-4-75-77 (HS20120540-16)

- The surrogate recoveries could not be determined due to dilution below the calibration range.

Sample ID: SB-4-5-7 (HS20120540-02MS)

- The recovery of the Matrix Spike (MS) associated to this analyte was outside of the established control limits. However, the LCS was within control limits. The recovery of the MS may be due to sample matrix interference.
- The surrogate recoveries could not be determined due to dilution below the calibration range.

Sample ID: SB-4-5-7 (HS20120540-02MSD)

- The recovery of the Matrix Spike Duplicate (MSD) associated to this analyte was outside of the established control limits. However, the LCS was within control limits. The failed recovery of the MSD may be due to sample matrix interference.
- The surrogate recoveries could not be determined due to dilution below the calibration range.

GC Volatiles by Method SW8015

Batch ID: R374794

Sample ID: HS20120637-01MS

ALS Houston, US Date: 30-Dec-20

Client: TRC Corporation **CASE NARRATIVE**
Project: Artesia Station West
Work Order: HS20120540

GC Volatiles by Method SW8015

Batch ID: R374794

• MS and MSD are for an unrelated sample

Batch ID: R374888

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Batch ID: R375187

Sample ID: SB-4-0-2 (HS20120540-01MS)

• Surrogate recoveries were outside of the control limits due to matrix interference.

• The recovery of the Matrix Spike (MS) associated to this analyte was outside of the established control limits. However, the LCS was within control limits. The recovery of the MS may be due to sample matrix interference. Confirmed by MSD

Sample ID: SB-4-0-2 (HS20120540-01MSD)

• Surrogate recoveries were outside of the control limits due to matrix interference.

• The recovery of the Matrix Spike Duplicate (MSD) associated to this analyte was outside of the established control limits. However, the LCS was within control limits. The failed recovery of the MSD may be due to sample matrix interference. Confirmed by MS

GCMS Volatiles by Method SW8260

Batch ID: R375129

Sample ID: SB-4-5-7 , SB-4-20-22, SB-4-50-52(HS20120540-02, 05,11)

• Lowest practical dilution for samples HS20120540-02, 05 and 11 due to high background.

Batch ID: R374443

Sample ID: HS20120536-02MS

• MS and MSD are for an unrelated sample

Batch ID: R374597,R374841

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Batch ID: R375117

Sample ID: HS20120805-03MSD

• MSD is for an unrelated sample

WetChemistry by Method ASTM D2216

Batch ID: R374869,R375343

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method E300

Batch ID: 160690,160951

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

ALS Houston, US Date: 30-Dec-20

ALS Houston, US Date: 30-Dec-20

Client: TRC Corporation
Project: Artesia Station West
Sample ID: SB-4-0-2
Collection Date: 08-Dec-2020 08:30

ANALYTICAL REPORT
WorkOrder:HS20120540
Lab ID:HS20120540-01
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		**Method:SW8260**				Analyst: WLR
Benzene	< 0.0050		0.0050	mg/Kg	1	22-Dec-2020 13:17
Ethylbenzene	< 0.0050		0.0050	mg/Kg	1	22-Dec-2020 13:17
Toluene	< 0.0050		0.0050	mg/Kg	1	22-Dec-2020 13:17
Xylenes, Total	< 0.0050		0.0050	mg/Kg	1	22-Dec-2020 13:17
Surr: 1,2-Dichloroethane-d4	*89.7*		*70-126*	*%REC*	*1*	*22-Dec-2020 13:17*
Surr: 4-Bromofluorobenzene	*96.2*		*70-130*	*%REC*	*1*	*22-Dec-2020 13:17*
Surr: Dibromofluoromethane	*91.6*		*70-130*	*%REC*	*1*	*22-Dec-2020 13:17*
Surr: Toluene-d8	*103*		*70-130*	*%REC*	*1*	*22-Dec-2020 13:17*
GASOLINE RANGE ORGANICS BY SW8015C		**Method:SW8015**				Analyst: JLJ
Gasoline Range Organics	**0.18**		**0.050**	**mg/Kg**	1	22-Dec-2020 22:44
Surr: 4-Bromofluorobenzene	*85.4*		*70-123*	*%REC*	*1*	*22-Dec-2020 22:44*
TPH DRO/ORO BY SW8015C		**Method:SW8015M**		Prep:SW3541 / 22-Dec-2020		Analyst: PVL
TPH (Diesel Range)	**420**		**84**	**mg/Kg**	50	23-Dec-2020 14:36
TPH (Motor Oil Range)	**1,100**	n	**170**	**mg/Kg**	50	23-Dec-2020 14:36
Surr: 2-Fluorobiphenyl	*76.8*	*J*	*60-129*	*%REC*	*50*	*23-Dec-2020 14:36*
MOISTURE - ASTM D2216		**Method:ASTM D2216**				Analyst: JAC
Percent Moisture	**5.26**		**0.0100**	**wt%**	1	23-Dec-2020 15:58
ANIONS BY E300.0		**Method:E300**		Prep:E300 / 22-Dec-2020		Analyst: YP
Chloride	**768**		**4.98**	**mg/Kg**	1	24-Dec-2020 12:00

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

ALS Houston, US Date: 30-Dec-20

Client: TRC Corporation
Project: Artesia Station West
Sample ID: SB-4-5-7
Collection Date: 08-Dec-2020 08:35

ANALYTICAL REPORT
WorkOrder:HS20120540
Lab ID:HS20120540-02
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		**Method:SW8260**				Analyst: PC
Benzene	< 1.2		1.2	mg/Kg	250	21-Dec-2020 14:21
Ethylbenzene	**40**		**1.2**	**mg/Kg**	250	21-Dec-2020 14:21
Toluene	**2.9**		**1.2**	**mg/Kg**	250	21-Dec-2020 14:21
Xylenes, Total	**77**		**1.2**	**mg/Kg**	250	21-Dec-2020 14:21
Surr: 1,2-Dichloroethane-d4	*99.5*		*70-126*	*%REC*	*250*	*21-Dec-2020 14:21*
Surr: 4-Bromofluorobenzene	*96.2*		*70-130*	*%REC*	*250*	*21-Dec-2020 14:21*
Surr: Dibromofluoromethane	*96.1*		*70-130*	*%REC*	*250*	*21-Dec-2020 14:21*
Surr: Toluene-d8	*105*		*70-130*	*%REC*	*250*	*21-Dec-2020 14:21*
GASOLINE RANGE ORGANICS BY SW8015C		**Method:SW8015**				Analyst: QX
Gasoline Range Organics	**440**		**0.49**	**mg/Kg**	1	16-Dec-2020 16:37
Surr: 4-Bromofluorobenzene	*106*		*70-123*	*%REC*	*1*	*16-Dec-2020 16:37*
TPH DRO/ORO BY SW8015C		**Method:SW8015M**		Prep:SW3541 / 14-Dec-2020		Analyst: PVL
TPH (Diesel Range)	**4,900**		**170**	**mg/Kg**	100	14-Dec-2020 17:07
TPH (Motor Oil Range)	**2,600**	n	**340**	**mg/Kg**	100	14-Dec-2020 17:07
Surr: 2-Fluorobiphenyl	*0*	*JS*	*60-129*	*%REC*	*100*	*14-Dec-2020 17:07*
MOISTURE - ASTM D2216		**Method:ASTM D2216**				Analyst: JAC
Percent Moisture	**8.77**		**0.0100**	**wt%**	1	17-Dec-2020 09:08
ANIONS BY E300.0		**Method:E300**		Prep:E300 / 15-Dec-2020		Analyst: YP
Chloride	**645**		**4.99**	**mg/Kg**	1	16-Dec-2020 18:51

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

ALS Houston, US Date: 30-Dec-20

Client: TRC Corporation
Project: Artesia Station West
Sample ID: SB-4-20-22
Collection Date: 08-Dec-2020 09:00

ANALYTICAL REPORT
WorkOrder:HS20120540
Lab ID:HS20120540-05
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		**Method:SW8260**				Analyst: PC
Benzene	< 2.4		2.4	mg/Kg	500	21-Dec-2020 14:42
Ethylbenzene	**41**		**2.4**	**mg/Kg**	500	21-Dec-2020 14:42
Toluene	**28**		**2.4**	**mg/Kg**	500	21-Dec-2020 14:42
Xylenes, Total	**87**		**2.4**	**mg/Kg**	500	21-Dec-2020 14:42
Surr: 1,2-Dichloroethane-d4	*97.0*		*70-126*	*%REC*	*500*	*21-Dec-2020 14:42*
Surr: 4-Bromofluorobenzene	*101*		*70-130*	*%REC*	*500*	*21-Dec-2020 14:42*
Surr: Dibromofluoromethane	*94.3*		*70-130*	*%REC*	*500*	*21-Dec-2020 14:42*
Surr: Toluene-d8	*102*		*70-130*	*%REC*	*500*	*21-Dec-2020 14:42*
GASOLINE RANGE ORGANICS BY SW8015C		**Method:SW8015**				Analyst: QX
Gasoline Range Organics	**11,000**		**25**	**mg/Kg**	500	17-Dec-2020 16:16
Gasoline Range Organics	**1,800**	H	**2.5**	**mg/Kg**	50	29-Dec-2020 11:13
Surr: 4-Bromofluorobenzene	*98.1*		*70-123*	*%REC*	*500*	*17-Dec-2020 16:16*
Surr: 4-Bromofluorobenzene	*367*	*S*	*70-123*	*%REC*	*50*	*29-Dec-2020 11:13*
TPH DRO/ORO BY SW8015C		**Method:SW8015M**		Prep:SW3541 / 14-Dec-2020		Analyst: PVL
TPH (Diesel Range)	**4,900**		**170**	**mg/Kg**	100	14-Dec-2020 18:20
TPH (Motor Oil Range)	**2,600**	n	**340**	**mg/Kg**	100	14-Dec-2020 18:20
Surr: 2-Fluorobiphenyl	*0*	*JS*	*60-129*	*%REC*	*100*	*14-Dec-2020 18:20*
MOISTURE - ASTM D2216		**Method:ASTM D2216**				Analyst: JAC
Percent Moisture	**17.2**		**0.0100**	**wt%**	1	17-Dec-2020 09:08
ANIONS BY E300.0		**Method:E300**		Prep:E300 / 15-Dec-2020		Analyst: YP
Chloride	**158**		**5.00**	**mg/Kg**	1	16-Dec-2020 19:08

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

ALS Houston, US Date: 30-Dec-20

Client: TRC Corporation
Project: Artesia Station West
Sample ID: SB-4-30-32
Collection Date: 08-Dec-2020 09:15

ANALYTICAL REPORT
WorkOrder:HS20120540
Lab ID:HS20120540-07
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C	**Method:SW8260**					Analyst: WLR
Benzene	**0.048**		**0.0050**	**mg/Kg**	1	11-Dec-2020 16:46
Ethylbenzene	**0.62**		**0.042**	**mg/Kg**	1	14-Dec-2020 13:08
Toluene	< 0.042		0.042	mg/Kg	1	14-Dec-2020 13:08
Xylenes, Total	**2.2**		**0.042**	**mg/Kg**	1	14-Dec-2020 13:08
Surr: 1,2-Dichloroethane-d4	*105*		*70-126*	*%REC*	*1*	*11-Dec-2020 16:46*
Surr: 1,2-Dichloroethane-d4	*115*		*70-126*	*%REC*	*1*	*14-Dec-2020 13:08*
Surr: 4-Bromofluorobenzene	*109*		*70-130*	*%REC*	*1*	*11-Dec-2020 16:46*
Surr: 4-Bromofluorobenzene	*104*		*70-130*	*%REC*	*1*	*14-Dec-2020 13:08*
Surr: Dibromofluoromethane	*88.5*		*70-130*	*%REC*	*1*	*11-Dec-2020 16:46*
Surr: Dibromofluoromethane	*102*		*70-130*	*%REC*	*1*	*14-Dec-2020 13:08*
Surr: Toluene-d8	*119*		*70-130*	*%REC*	*1*	*11-Dec-2020 16:46*
Surr: Toluene-d8	*102*		*70-130*	*%REC*	*1*	*14-Dec-2020 13:08*
GASOLINE RANGE ORGANICS BY SW8015C	**Method:SW8015**					Analyst: QX
Gasoline Range Organics	**8.5**		**0.050**	**mg/Kg**	1	16-Dec-2020 16:05
Surr: 4-Bromofluorobenzene	*105*		*70-123*	*%REC*	*1*	*16-Dec-2020 16:05*
TPH DRO/ORO BY SW8015C	**Method:SW8015M**			Prep:SW3541 / 14-Dec-2020		Analyst: PVL
TPH (Diesel Range)	**920**		**84**	**mg/Kg**	50	14-Dec-2020 18:44
TPH (Motor Oil Range)	**780**	n	**170**	**mg/Kg**	50	14-Dec-2020 18:44
Surr: 2-Fluorobiphenyl	*331*	*S*	*60-129*	*%REC*	*50*	*14-Dec-2020 18:44*
MOISTURE - ASTM D2216	**Method:ASTM D2216**					Analyst: JAC
Percent Moisture	**7.72**		**0.0100**	**wt%**	1	17-Dec-2020 09:08
ANIONS BY E300.0	**Method:E300**			Prep:E300 / 15-Dec-2020		Analyst: YP
Chloride	**71.9**		**5.00**	**mg/Kg**	1	16-Dec-2020 19:25

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

ALS Houston, US Date: 30-Dec-20

Client: TRC Corporation
Project: Artesia Station West
Sample ID: SB-4-40-42
Collection Date: 08-Dec-2020 09:25

ANALYTICAL REPORT
WorkOrder:HS20120540
Lab ID:HS20120540-09
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		**Method:SW8260**				Analyst: WLR
Benzene	**0.0077**		**0.0048**	**mg/Kg**	1	11-Dec-2020 17:08
Ethylbenzene	**0.14**		**0.0048**	**mg/Kg**	1	11-Dec-2020 17:08
Toluene	**0.028**		**0.0048**	**mg/Kg**	1	11-Dec-2020 17:08
Xylenes, Total	**0.44**		**0.0048**	**mg/Kg**	1	11-Dec-2020 17:08
Surr: 1,2-Dichloroethane-d4	*104*		*70-126*	*%REC*	*1*	*11-Dec-2020 17:08*
Surr: 4-Bromofluorobenzene	*106*		*70-130*	*%REC*	*1*	*11-Dec-2020 17:08*
Surr: Dibromofluoromethane	*87.9*		*70-130*	*%REC*	*1*	*11-Dec-2020 17:08*
Surr: Toluene-d8	*102*		*70-130*	*%REC*	*1*	*11-Dec-2020 17:08*
GASOLINE RANGE ORGANICS BY SW8015C		**Method:SW8015**				Analyst: QX
Gasoline Range Organics	**1.1**		**0.050**	**mg/Kg**	1	16-Dec-2020 14:18
Surr: 4-Bromofluorobenzene	*103*		*70-123*	*%REC*	*1*	*16-Dec-2020 14:18*
TPH DRO/ORO BY SW8015C		**Method:SW8015M**		Prep:SW3541 / 14-Dec-2020		Analyst: PVL
TPH (Diesel Range)	**410**		**84**	**mg/Kg**	50	14-Dec-2020 19:09
TPH (Motor Oil Range)	**420**	n	**170**	**mg/Kg**	50	14-Dec-2020 19:09
Surr: 2-Fluorobiphenyl	*238*	*S*	*60-129*	*%REC*	*50*	*14-Dec-2020 19:09*
MOISTURE - ASTM D2216		**Method:ASTM D2216**				Analyst: JAC
Percent Moisture	**6.06**		**0.0100**	**wt%**	1	17-Dec-2020 09:08
ANIONS BY E300.0		**Method:E300**		Prep:E300 / 15-Dec-2020		Analyst: YP
Chloride	**57.7**		**5.00**	**mg/Kg**	1	16-Dec-2020 20:16

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

ALS Houston, US Date: 30-Dec-20

Client: TRC Corporation
Project: Artesia Station West
Sample ID: SB-4-50-52
Collection Date: 08-Dec-2020 09:45

ANALYTICAL REPORT
WorkOrder:HS20120540
Lab ID:HS20120540-11
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		**Method:SW8260**				Analyst: PC
Benzene	< 0.48		0.48	mg/Kg	100	21-Dec-2020 15:03
Ethylbenzene	**1.6**		**0.48**	**mg/Kg**	100	21-Dec-2020 15:03
Toluene	< 0.48		0.48	mg/Kg	100	21-Dec-2020 15:03
Xylenes, Total	**5.1**		**0.48**	**mg/Kg**	100	21-Dec-2020 15:03
Surr: 1,2-Dichloroethane-d4	*99.0*		*70-126*	*%REC*	*100*	*21-Dec-2020 15:03*
Surr: 4-Bromofluorobenzene	*102*		*70-130*	*%REC*	*100*	*21-Dec-2020 15:03*
Surr: Dibromofluoromethane	*93.9*		*70-130*	*%REC*	*100*	*21-Dec-2020 15:03*
Surr: Toluene-d8	*98.3*		*70-130*	*%REC*	*100*	*21-Dec-2020 15:03*
GASOLINE RANGE ORGANICS BY SW8015C		**Method:SW8015**				Analyst: QX
Gasoline Range Organics	**42**		**0.50**	**mg/Kg**	1	16-Dec-2020 16:21
Surr: 4-Bromofluorobenzene	*116*		*70-123*	*%REC*	*1*	*16-Dec-2020 16:21*
TPH DRO/ORO BY SW8015C		**Method:SW8015M**		Prep:SW3541 / 14-Dec-2020		Analyst: PVL
TPH (Diesel Range)	**1,500**		**170**	**mg/Kg**	100	14-Dec-2020 19:33
TPH (Motor Oil Range)	**1,100**	n	**340**	**mg/Kg**	100	14-Dec-2020 19:33
Surr: 2-Fluorobiphenyl	*0*	*JS*	*60-129*	*%REC*	*100*	*14-Dec-2020 19:33*
MOISTURE - ASTM D2216		**Method:ASTM D2216**				Analyst: JAC
Percent Moisture	**3.61**		**0.0100**	**wt%**	1	17-Dec-2020 09:08
ANIONS BY E300.0		**Method:E300**		Prep:E300 / 15-Dec-2020		Analyst: YP
Chloride	< 4.91		4.91	mg/Kg	1	16-Dec-2020 20:33

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

ALS Houston, US Date: 30-Dec-20

Client: TRC Corporation
Project: Artesia Station West
Sample ID: SB-4-65-67
Collection Date: 08-Dec-2020 10:30

ANALYTICAL REPORT
WorkOrder:HS20120540
Lab ID:HS20120540-14
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C	**Method:SW8260**					Analyst: WLR
Benzene	< 0.0048		0.0048	mg/Kg	1	11-Dec-2020 17:52
Ethylbenzene	**0.11**		**0.043**	**mg/Kg**	1	14-Dec-2020 13:30
Toluene	< 0.043		0.043	mg/Kg	1	14-Dec-2020 13:30
Xylenes, Total	**0.51**		**0.043**	**mg/Kg**	1	14-Dec-2020 13:30
Surr: 1,2-Dichloroethane-d4	*107*		*70-126*	*%REC*	*1*	*11-Dec-2020 17:52*
Surr: 1,2-Dichloroethane-d4	*123*		*70-126*	*%REC*	*1*	*14-Dec-2020 13:30*
Surr: 4-Bromofluorobenzene	*109*		*70-130*	*%REC*	*1*	*11-Dec-2020 17:52*
Surr: 4-Bromofluorobenzene	*106*		*70-130*	*%REC*	*1*	*14-Dec-2020 13:30*
Surr: Dibromofluoromethane	*90.1*		*70-130*	*%REC*	*1*	*11-Dec-2020 17:52*
Surr: Dibromofluoromethane	*95.7*		*70-130*	*%REC*	*1*	*14-Dec-2020 13:30*
Surr: Toluene-d8	*110*		*70-130*	*%REC*	*1*	*11-Dec-2020 17:52*
Surr: Toluene-d8	*101*		*70-130*	*%REC*	*1*	*14-Dec-2020 13:30*
GASOLINE RANGE ORGANICS BY SW8015C	**Method:SW8015**					Analyst: QX
Gasoline Range Organics	**5.0**		**0.050**	**mg/Kg**	1	16-Dec-2020 14:34
Surr: 4-Bromofluorobenzene	*106*		*70-123*	*%REC*	*1*	*16-Dec-2020 14:34*
TPH DRO/ORO BY SW8015C	**Method:SW8015M**			Prep:SW3541 / 14-Dec-2020		Analyst: PVL
TPH (Diesel Range)	**590**		**85**	**mg/Kg**	50	14-Dec-2020 19:57
TPH (Motor Oil Range)	**490**	n	**170**	**mg/Kg**	50	14-Dec-2020 19:57
Surr: 2-Fluorobiphenyl	*279*	*S*	*60-129*	*%REC*	*50*	*14-Dec-2020 19:57*
MOISTURE - ASTM D2216	**Method:ASTM D2216**					Analyst: JAC
Percent Moisture	**5.45**		**0.0100**	**wt%**	1	17-Dec-2020 09:08
ANIONS BY E300.0	**Method:E300**			Prep:E300 / 15-Dec-2020		Analyst: YP
Chloride	**34.6**		**4.91**	**mg/Kg**	1	16-Dec-2020 20:49

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

ALS Houston, US Date: 30-Dec-20

Client: TRC Corporation
Project: Artesia Station West
Sample ID: SB-4-75-77
Collection Date: 08-Dec-2020 11:00

ANALYTICAL REPORT
WorkOrder:HS20120540
Lab ID:HS20120540-16
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		**Method:SW8260**				Analyst: WLR
Benzene	**0.15**		**0.0049**	**mg/Kg**	1	11-Dec-2020 14:11
Ethylbenzene	**0.66**		**0.049**	**mg/Kg**	1	14-Dec-2020 13:52
Toluene	**0.25**		**0.049**	**mg/Kg**	1	14-Dec-2020 13:52
Xylenes, Total	**1.7**		**0.049**	**mg/Kg**	1	14-Dec-2020 13:52
Surr: 1,2-Dichloroethane-d4	*107*		*70-126*	*%REC*	*1*	*11-Dec-2020 14:11*
Surr: 1,2-Dichloroethane-d4	*116*		*70-126*	*%REC*	*1*	*14-Dec-2020 13:52*
Surr: 4-Bromofluorobenzene	*106*		*70-130*	*%REC*	*1*	*11-Dec-2020 14:11*
Surr: 4-Bromofluorobenzene	*105*		*70-130*	*%REC*	*1*	*14-Dec-2020 13:52*
Surr: Dibromofluoromethane	*90.2*		*70-130*	*%REC*	*1*	*11-Dec-2020 14:11*
Surr: Dibromofluoromethane	*97.0*		*70-130*	*%REC*	*1*	*14-Dec-2020 13:52*
Surr: Toluene-d8	*117*		*70-130*	*%REC*	*1*	*11-Dec-2020 14:11*
Surr: Toluene-d8	*102*		*70-130*	*%REC*	*1*	*14-Dec-2020 13:52*
GASOLINE RANGE ORGANICS BY SW8015C		**Method:SW8015**				Analyst: QX
Gasoline Range Organics	**10**		**0.050**	**mg/Kg**	1	16-Dec-2020 14:50
Surr: 4-Bromofluorobenzene	*107*		*70-123*	*%REC*	*1*	*16-Dec-2020 14:50*
TPH DRO/ORO BY SW8015C		**Method:SW8015M**		Prep:SW3541 / 14-Dec-2020		Analyst: PVL
TPH (Diesel Range)	**5,600**		**170**	**mg/Kg**	100	14-Dec-2020 21:10
TPH (Motor Oil Range)	**2,900**	n	**340**	**mg/Kg**	100	14-Dec-2020 21:10
Surr: 2-Fluorobiphenyl	*0*	*JS*	*60-129*	*%REC*	*100*	*14-Dec-2020 21:10*
MOISTURE - ASTM D2216		**Method:ASTM D2216**				Analyst: JAC
Percent Moisture	**6.49**		**0.0100**	**wt%**	1	17-Dec-2020 09:08
ANIONS BY E300.0		**Method:E300**		Prep:E300 / 15-Dec-2020		Analyst: YP
Chloride	**17.2**		**4.93**	**mg/Kg**	1	16-Dec-2020 21:06

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

ALS Houston, US Date: 30-Dec-20

Client: TRC Corporation
Project: Artesia Station West
Sample ID: SB-4-80-82
Collection Date: 08-Dec-2020 11:15

ANALYTICAL REPORT
WorkOrder:HS20120540
Lab ID:HS20120540-17
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C	**Method:SW8260**					Analyst: WLR
Benzene	< 0.0049		0.0049	mg/Kg	1	22-Dec-2020 12:55
Ethylbenzene	< 0.0049		0.0049	mg/Kg	1	22-Dec-2020 12:55
Toluene	< 0.0049		0.0049	mg/Kg	1	22-Dec-2020 12:55
Xylenes, Total	< 0.0049		0.0049	mg/Kg	1	22-Dec-2020 12:55
Surr: 1,2-Dichloroethane-d4	*88.1*		*70-126*	*%REC*	*1*	*22-Dec-2020 12:55*
Surr: 4-Bromofluorobenzene	*97.5*		*70-130*	*%REC*	*1*	*22-Dec-2020 12:55*
Surr: Dibromofluoromethane	*94.0*		*70-130*	*%REC*	*1*	*22-Dec-2020 12:55*
Surr: Toluene-d8	*105*		*70-130*	*%REC*	*1*	*22-Dec-2020 12:55*
GASOLINE RANGE ORGANICS BY SW8015C	**Method:SW8015**					Analyst: JLJ
Gasoline Range Organics	**0.073**		**0.050**	**mg/Kg**	1	22-Dec-2020 23:17
Surr: 4-Bromofluorobenzene	*85.2*		*70-123*	*%REC*	*1*	*22-Dec-2020 23:17*
TPH DRO/ORO BY SW8015C	**Method:SW8015M**			Prep:SW3541 / 22-Dec-2020		Analyst: PVL
TPH (Diesel Range)	**39**		**1.7**	**mg/Kg**	1	23-Dec-2020 15:00
TPH (Motor Oil Range)	**32**	n	**3.4**	**mg/Kg**	1	23-Dec-2020 15:00
Surr: 2-Fluorobiphenyl	*74.6*		*60-129*	*%REC*	*1*	*23-Dec-2020 15:00*
MOISTURE - ASTM D2216	**Method:ASTM D2216**					Analyst: JAC
Percent Moisture	**7.68**		**0.0100**	**wt%**	1	23-Dec-2020 15:58
ANIONS BY E300.0	**Method:E300**			Prep:E300 / 22-Dec-2020		Analyst: YP
Chloride	**31.6**		**4.94**	**mg/Kg**	1	24-Dec-2020 11:19

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

ALS Houston, US Date: 30-Dec-20

Client: TRC Corporation
Project: Artesia Station West
Sample ID: SB-4-90-92
Collection Date: 08-Dec-2020 11:55

ANALYTICAL REPORT
WorkOrder:HS20120540
Lab ID:HS20120540-19
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C	**Method:SW8260**					Analyst: WLR
Benzene	< 0.0051		0.0051	mg/Kg	1	11-Dec-2020 14:33
Ethylbenzene	< 0.0051		0.0051	mg/Kg	1	11-Dec-2020 14:33
Toluene	< 0.0051		0.0051	mg/Kg	1	11-Dec-2020 14:33
Xylenes, Total	< 0.0051		0.0051	mg/Kg	1	11-Dec-2020 14:33
Surr: 1,2-Dichloroethane-d4	*109*		*70-126*	*%REC*	*1*	*11-Dec-2020 14:33*
Surr: 4-Bromofluorobenzene	*101*		*70-130*	*%REC*	*1*	*11-Dec-2020 14:33*
Surr: Dibromofluoromethane	*92.5*		*70-130*	*%REC*	*1*	*11-Dec-2020 14:33*
Surr: Toluene-d8	*100.0*		*70-130*	*%REC*	*1*	*11-Dec-2020 14:33*
GASOLINE RANGE ORGANICS BY SW8015C	**Method:SW8015**					Analyst: QX
Gasoline Range Organics	< 0.050		0.050	mg/Kg	1	16-Dec-2020 17:41
Surr: 4-Bromofluorobenzene	*110*		*70-123*	*%REC*	*1*	*16-Dec-2020 17:41*
TPH DRO/ORO BY SW8015C	**Method:SW8015M**			Prep:SW3541 / 14-Dec-2020		Analyst: PVL
TPH (Diesel Range)	**11**		**1.7**	**mg/Kg**	1	14-Dec-2020 21:34
TPH (Motor Oil Range)	**20**	n	**3.4**	**mg/Kg**	1	14-Dec-2020 21:34
Surr: 2-Fluorobiphenyl	*65.8*		*60-129*	*%REC*	*1*	*14-Dec-2020 21:34*
MOISTURE - ASTM D2216	**Method:ASTM D2216**					Analyst: JAC
Percent Moisture	**12.0**		**0.0100**	**wt%**	1	17-Dec-2020 09:08
ANIONS BY E300.0	**Method:E300**			Prep:E300 / 15-Dec-2020		Analyst: YP
Chloride	**22.7**		**4.98**	**mg/Kg**	1	16-Dec-2020 21:24

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

ALS Houston, US Date: 30-Dec-20

Client: TRC Corporation
Project: Artesia Station West
Sample ID: SB-4-95-97
Collection Date: 08-Dec-2020 12:10

ANALYTICAL REPORT
WorkOrder:HS20120540
Lab ID:HS20120540-20
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		**Method:SW8260**				Analyst: WLR
Benzene	< 0.0048		0.0048	mg/Kg	1	11-Dec-2020 14:56
Ethylbenzene	**0.012**		**0.0048**	**mg/Kg**	1	11-Dec-2020 14:56
Toluene	**0.014**		**0.0048**	**mg/Kg**	1	11-Dec-2020 14:56
Xylenes, Total	**0.025**		**0.0048**	**mg/Kg**	1	11-Dec-2020 14:56
Surr: 1,2-Dichloroethane-d4	*107*		*70-126*	*%REC*	*1*	*11-Dec-2020 14:56*
Surr: 4-Bromofluorobenzene	*99.1*		*70-130*	*%REC*	*1*	*11-Dec-2020 14:56*
Surr: Dibromofluoromethane	*92.3*		*70-130*	*%REC*	*1*	*11-Dec-2020 14:56*
Surr: Toluene-d8	*98.5*		*70-130*	*%REC*	*1*	*11-Dec-2020 14:56*
GASOLINE RANGE ORGANICS BY SW8015C		**Method:SW8015**				Analyst: QX
Gasoline Range Organics	< 0.050		0.050	mg/Kg	1	16-Dec-2020 17:57
Surr: 4-Bromofluorobenzene	*107*		*70-123*	*%REC*	*1*	*16-Dec-2020 17:57*
TPH DRO/ORO BY SW8015C		**Method:SW8015M**		Prep:SW3541 / 14-Dec-2020		Analyst: PVL
TPH (Diesel Range)	**33**		**1.7**	**mg/Kg**	1	14-Dec-2020 21:58
TPH (Motor Oil Range)	**6.5**	n	**3.4**	**mg/Kg**	1	14-Dec-2020 21:58
Surr: 2-Fluorobiphenyl	*62.8*		*60-129*	*%REC*	*1*	*14-Dec-2020 21:58*
MOISTURE - ASTM D2216		**Method:ASTM D2216**				Analyst: JAC
Percent Moisture	**10.8**		**0.0100**	**wt%**	1	17-Dec-2020 09:08
ANIONS BY E300.0		**Method:E300**		Prep:E300 / 15-Dec-2020		Analyst: YP
Chloride	**15.5**		**4.99**	**mg/Kg**	1	16-Dec-2020 22:36

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

ALS Houston, US Date: 30-Dec-20

Client: TRC Corporation
Project: Artesia Station West
Sample ID: SB-4-100-102
Collection Date: 08-Dec-2020 12:25

ANALYTICAL REPORT
WorkOrder:HS20120540
Lab ID:HS20120540-21
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		**Method:SW8260**				Analyst: WLR
Benzene	< 0.0048		0.0048	mg/Kg	1	11-Dec-2020 15:18
Ethylbenzene	< 0.0048		0.0048	mg/Kg	1	11-Dec-2020 15:18
Toluene	< 0.0048		0.0048	mg/Kg	1	11-Dec-2020 15:18
Xylenes, Total	**0.0059**		**0.0048**	**mg/Kg**	1	11-Dec-2020 15:18
Surr: 1,2-Dichloroethane-d4	*102*		*70-126*	*%REC*	*1*	*11-Dec-2020 15:18*
Surr: 4-Bromofluorobenzene	*101*		*70-130*	*%REC*	*1*	*11-Dec-2020 15:18*
Surr: Dibromofluoromethane	*89.1*		*70-130*	*%REC*	*1*	*11-Dec-2020 15:18*
Surr: Toluene-d8	*99.7*		*70-130*	*%REC*	*1*	*11-Dec-2020 15:18*
GASOLINE RANGE ORGANICS BY SW8015C		**Method:SW8015**				Analyst: QX
Gasoline Range Organics	< 0.050		0.050	mg/Kg	1	16-Dec-2020 18:13
Surr: 4-Bromofluorobenzene	*108*		*70-123*	*%REC*	*1*	*16-Dec-2020 18:13*
TPH DRO/ORO BY SW8015C		**Method:SW8015M**		Prep:SW3541 / 14-Dec-2020		Analyst: PVL
TPH (Diesel Range)	**48**		**1.7**	**mg/Kg**	1	14-Dec-2020 22:23
TPH (Motor Oil Range)	**32**	n	**3.4**	**mg/Kg**	1	14-Dec-2020 22:23
Surr: 2-Fluorobiphenyl	*88.5*		*60-129*	*%REC*	*1*	*14-Dec-2020 22:23*
MOISTURE - ASTM D2216		**Method:ASTM D2216**				Analyst: JAC
Percent Moisture	**5.10**		**0.0100**	**wt%**	1	17-Dec-2020 09:08
ANIONS BY E300.0		**Method:E300**		Prep:E300 / 15-Dec-2020		Analyst: YP
Chloride	**15.3**		**4.98**	**mg/Kg**	1	16-Dec-2020 22:54

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

ALS Houston, US Date: 30-Dec-20

Client: TRC Corporation
Project: Artesia Station West
Sample ID: Duplicate-3
Collection Date: 08-Dec-2020 00:00

ANALYTICAL REPORT
WorkOrder:HS20120540
Lab ID:HS20120540-22
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		**Method:SW8260**				Analyst: WLR
Benzene	< 0.0050		0.0050	mg/Kg	1	11-Dec-2020 15:40
Ethylbenzene	**0.22**		**0.045**	**mg/Kg**	1	14-Dec-2020 14:14
Toluene	**0.19**		**0.0050**	**mg/Kg**	1	11-Dec-2020 15:40
Xylenes, Total	**0.87**		**0.045**	**mg/Kg**	1	14-Dec-2020 14:14
Surr: 1,2-Dichloroethane-d4	*108*		*70-126*	*%REC*	*1*	*11-Dec-2020 15:40*
Surr: 1,2-Dichloroethane-d4	*123*		*70-126*	*%REC*	*1*	*14-Dec-2020 14:14*
Surr: 4-Bromofluorobenzene	*105*		*70-130*	*%REC*	*1*	*11-Dec-2020 15:40*
Surr: 4-Bromofluorobenzene	*106*		*70-130*	*%REC*	*1*	*14-Dec-2020 14:14*
Surr: Dibromofluoromethane	*92.0*		*70-130*	*%REC*	*1*	*11-Dec-2020 15:40*
Surr: Dibromofluoromethane	*100*		*70-130*	*%REC*	*1*	*14-Dec-2020 14:14*
Surr: Toluene-d8	*105*		*70-130*	*%REC*	*1*	*11-Dec-2020 15:40*
Surr: Toluene-d8	*101*		*70-130*	*%REC*	*1*	*14-Dec-2020 14:14*
GASOLINE RANGE ORGANICS BY SW8015C		**Method:SW8015**				Analyst: QX
Gasoline Range Organics	**5.9**		**0.050**	**mg/Kg**	1	16-Dec-2020 18:29
Surr: 4-Bromofluorobenzene	*112*		*70-123*	*%REC*	*1*	*16-Dec-2020 18:29*
TPH DRO/ORO BY SW8015C		**Method:SW8015M**		Prep:SW3541 / 14-Dec-2020		Analyst: PVL
TPH (Diesel Range)	**750**		**85**	**mg/Kg**	50	14-Dec-2020 22:47
TPH (Motor Oil Range)	**640**	n	**170**	**mg/Kg**	50	14-Dec-2020 22:47
Surr: 2-Fluorobiphenyl	*319*	*S*	*60-129*	*%REC*	*50*	*14-Dec-2020 22:47*
MOISTURE - ASTM D2216		**Method:ASTM D2216**				Analyst: JAC
Percent Moisture	**6.62**		**0.0100**	**wt%**	1	17-Dec-2020 09:08
ANIONS BY E300.0		**Method:E300**		Prep:E300 / 15-Dec-2020		Analyst: YP
Chloride	**39.4**		**4.97**	**mg/Kg**	1	16-Dec-2020 23:12

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

ALS Houston, US Date: 30-Dec-20

Client: TRC Corporation
Project: Artesia Station West
Sample ID: TB-12082020-1
Collection Date: 08-Dec-2020 13:00

ANALYTICAL REPORT
WorkOrder:HS20120540
Lab ID:HS20120540-23
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C	**Method:SW8260**					Analyst: PC
Benzene	< 0.0050		0.0050	mg/L	1	16-Dec-2020 17:24
Ethylbenzene	< 0.0050		0.0050	mg/L	1	16-Dec-2020 17:24
m,p-Xylene	< 0.010		0.010	mg/L	1	16-Dec-2020 17:24
o-Xylene	< 0.0050		0.0050	mg/L	1	16-Dec-2020 17:24
Toluene	< 0.0050		0.0050	mg/L	1	16-Dec-2020 17:24
Xylenes, Total	< 0.0050		0.0050	mg/L	1	16-Dec-2020 17:24
Surr: 1,2-Dichloroethane-d4	*99.0*		*70-126*	*%REC*	*1*	*16-Dec-2020 17:24*
Surr: 4-Bromofluorobenzene	*95.8*		*82-124*	*%REC*	*1*	*16-Dec-2020 17:24*
Surr: Dibromofluoromethane	*99.1*		*77-123*	*%REC*	*1*	*16-Dec-2020 17:24*
Surr: Toluene-d8	*95.5*		*82-127*	*%REC*	*1*	*16-Dec-2020 17:24*

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

Weight / Prep Log

Client: TRC Corporation
Project: Artesia Station West
WorkOrder: HS20120540

Batch ID: 4063 **Start Date:** 11 Dec 2020 07:46 **End Date:** 11 Dec 2020 07:46
Method: VOLATILES BY SW8260C

Sample ID	Container	Sample Wt/Vol	Final Volume	Weight Factor	Container Type
HS20120540-02	1	5.181 (g)	5 (mL)	0.97	Bulk (5030B)
HS20120540-05	1	5.219 (g)	5 (mL)	0.96	Bulk (5030B)
HS20120540-07	1	4.944 (g)	5 (mL)	1.01	Bulk (5030B)
HS20120540-09	1	5.231 (g)	5 (mL)	0.96	Bulk (5030B)
HS20120540-11	1	5.271 (g)	5 (mL)	0.95	Bulk (5030B)
HS20120540-14	1	5.153 (g)	5 (mL)	0.97	Bulk (5030B)
HS20120540-16	1	5.085 (g)	5 (mL)	0.98	Bulk (5030B)
HS20120540-19	1	4.922 (g)	5 (mL)	1.02	Bulk (5030B)
HS20120540-20	1	5.205 (g)	5 (mL)	0.96	Bulk (5030B)
HS20120540-21	1	5.136 (g)	5 (mL)	0.97	Bulk (5030B)
HS20120540-22	1	5.001 (g)	5 (mL)	1	Bulk (5030B)

Batch ID: 4065 **Start Date:** 14 Dec 2020 09:53 **End Date:** 14 Dec 2020 09:53
Method: VOLATILES BY SW8260C

Sample ID	Container	Sample Wt/Vol	Final Volume	Weight Factor	Container Type
HS20120540-01	1	5.026 (g)	5 (mL)	0.99	Bulk (5030B)
HS20120540-07	2	0.599 (g)	5 (mL)	8.35	Bulk (5030B)
HS20120540-14	2	0.586 (g)	5 (mL)	8.53	Bulk (5030B)
HS20120540-16	2	0.514 (g)	5 (mL)	9.73	Bulk (5030B)
HS20120540-17	1	5.116 (g)	5 (mL)	0.98	Bulk (5030B)
HS20120540-22	2	0.557 (g)	5 (mL)	8.98	Bulk (5030B)

Batch ID: 4069 **Start Date:** 16 Dec 2020 10:23 **End Date:** 16 Dec 2020 10:23
Method: GASOLINE RANGE ORGANICS BY SW8015C **Prep Code:**

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS20120540-02	1	0.514 (g)	5 (mL)	9.73	Bulk (5030B)
HS20120540-05	3	5.013 (g)	5 (mL)	1	Bulk (5030B)
HS20120540-07	1	5.001 (g)	5 (mL)	1	Bulk (5030B)
HS20120540-09	1	5.008 (g)	5 (mL)	1	Bulk (5030B)
HS20120540-11	1	0.503 (g)	5 (mL)	9.94	Bulk (5030B)
HS20120540-14	1	5.061 (g)	5 (mL)	0.99	Bulk (5030B)
HS20120540-16	1	5.047 (g)	5 (mL)	0.99	Bulk (5030B)
HS20120540-19	1	5.032 (g)	5 (mL)	0.99	Bulk (5030B)
HS20120540-20	1	5.01 (g)	5 (mL)	1	Bulk (5030B)
HS20120540-21	1	5.028 (g)	5 (mL)	0.99	Bulk (5030B)
HS20120540-22	1	5.016 (g)	5 (mL)	1	Bulk (5030B)

Batch ID: 4083 **Start Date:** 22 Dec 2020 14:00 **End Date:** 22 Dec 2020 14:00
Method: GASOLINE RANGE ORGANICS BY SW8015C **Prep Code:**

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS20120540-01	1	5.001 (g)	5 (mL)	1	Bulk (5030B)
HS20120540-17	1	5.032 (g)	5 (mL)	0.99	Bulk (5030B)

Weight / Prep Log

Client: TRC Corporation
Project: Artesia Station West
WorkOrder: HS20120540

Batch ID: 4087 **Start Date:** 28 Dec 2020 10:37 **End Date:** 29 Dec 2020 10:37
Method: GASOLINE RANGE ORGANICS BY SW8015C **Prep Code:**

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS20120540-05	1	4.99 (g)	5 (mL)	1	Bulk (5030B)

Batch ID: 160667 **Start Date:** 14 Dec 2020 10:00 **End Date:** 14 Dec 2020 16:30
Method: SOPREP: 3541 TPH **Prep Code:** 8015SPR_LL

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS20120540-02		30.27 (g)	1 (mL)	0.03304
HS20120540-05		30.22 (g)	1 (mL)	0.03309
HS20120540-07		30.41 (g)	1 (mL)	0.03288
HS20120540-09		30.29 (g)	1 (mL)	0.03301
HS20120540-11		30.08 (g)	1 (mL)	0.03324
HS20120540-14		30.16 (g)	1 (mL)	0.03316
HS20120540-16		30.15 (g)	1 (mL)	0.03317
HS20120540-19		30.01 (g)	1 (mL)	0.03332
HS20120540-20		30.09 (g)	1 (mL)	0.03323
HS20120540-21		30.14 (g)	1 (mL)	0.03318
HS20120540-22		30.11 (g)	1 (mL)	0.03321

Batch ID: 160690 **Start Date:** 15 Dec 2020 11:05 **End Date:** 15 Dec 2020 14:00
Method: 300 ANIONS SOIL PREP **Prep Code:** 300_S_PR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS20120540-02		5.0096 (g)	50 (mL)	9.981
HS20120540-05		5.0039 (g)	50 (mL)	9.992
HS20120540-07		5.0004 (g)	50 (mL)	9.999
HS20120540-09		5.0004 (g)	50 (mL)	9.999
HS20120540-11		5.0873 (g)	50 (mL)	9.828
HS20120540-14		5.0875 (g)	50 (mL)	9.828
HS20120540-16		5.0729 (g)	50 (mL)	9.856
HS20120540-19		5.0197 (g)	50 (mL)	9.961
HS20120540-20		5.0086 (g)	50 (mL)	9.983
HS20120540-21		5.0204 (g)	50 (mL)	9.959
HS20120540-22		5.032 (g)	50 (mL)	9.936

Batch ID: 160951 **Start Date:** 22 Dec 2020 10:53 **End Date:**
Method: 300 ANIONS SOIL PREP **Prep Code:** 300_S_PR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS20120540-01		5.025 (g)	50 (mL)	9.95
HS20120540-17		5.0599 (g)	50 (mL)	9.882

Batch ID: 160978 **Start Date:** 22 Dec 2020 11:30 **End Date:** 22 Dec 2020 23:00
Method: SOPREP: 3541 TPH **Prep Code:** 8015SPR_LL

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS20120540-01		30.37 (g)	1 (mL)	0.03293
HS20120540-17		30.05 (g)	1 (mL)	0.03328

ALS Houston, US Date: 30-Dec-20

Client: TRC Corporation
Project: Artesia Station West
WorkOrder: HS20120540

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 160667 (0)	**Test Name :** TPH DRO/ORO BY SW8015C				**Matrix:** Soil	
HS20120540-02	SB-4-5-7	08 Dec 2020 08:35		14 Dec 2020 10:00	14 Dec 2020 17:07	100
HS20120540-05	SB-4-20-22	08 Dec 2020 09:00		14 Dec 2020 10:00	14 Dec 2020 18:20	100
HS20120540-07	SB-4-30-32	08 Dec 2020 09:15		14 Dec 2020 10:00	14 Dec 2020 18:44	50
HS20120540-09	SB-4-40-42	08 Dec 2020 09:25		14 Dec 2020 10:00	14 Dec 2020 19:09	50
HS20120540-11	SB-4-50-52	08 Dec 2020 09:45		14 Dec 2020 10:00	14 Dec 2020 19:33	100
HS20120540-14	SB-4-65-67	08 Dec 2020 10:30		14 Dec 2020 10:00	14 Dec 2020 19:57	50
HS20120540-16	SB-4-75-77	08 Dec 2020 11:00		14 Dec 2020 10:00	14 Dec 2020 21:10	100
HS20120540-19	SB-4-90-92	08 Dec 2020 11:55		14 Dec 2020 10:00	14 Dec 2020 21:34	1
HS20120540-20	SB-4-95-97	08 Dec 2020 12:10		14 Dec 2020 10:00	14 Dec 2020 21:58	1
HS20120540-21	SB-4-100-102	08 Dec 2020 12:25		14 Dec 2020 10:00	14 Dec 2020 22:23	1
HS20120540-22	Duplicate-3	08 Dec 2020 00:00		14 Dec 2020 10:00	14 Dec 2020 22:47	50
Batch ID: 160690 (0)	**Test Name :** ANIONS BY E300.0				**Matrix:** Soil	
HS20120540-02	SB-4-5-7	08 Dec 2020 08:35		15 Dec 2020 11:05	16 Dec 2020 18:51	1
HS20120540-05	SB-4-20-22	08 Dec 2020 09:00		15 Dec 2020 11:05	16 Dec 2020 19:08	1
HS20120540-07	SB-4-30-32	08 Dec 2020 09:15		15 Dec 2020 11:05	16 Dec 2020 19:25	1
HS20120540-09	SB-4-40-42	08 Dec 2020 09:25		15 Dec 2020 11:05	16 Dec 2020 20:16	1
HS20120540-11	SB-4-50-52	08 Dec 2020 09:45		15 Dec 2020 11:05	16 Dec 2020 20:33	1
HS20120540-14	SB-4-65-67	08 Dec 2020 10:30		15 Dec 2020 11:05	16 Dec 2020 20:49	1
HS20120540-16	SB-4-75-77	08 Dec 2020 11:00		15 Dec 2020 11:05	16 Dec 2020 21:06	1
HS20120540-19	SB-4-90-92	08 Dec 2020 11:55		15 Dec 2020 11:05	16 Dec 2020 21:24	1
HS20120540-20	SB-4-95-97	08 Dec 2020 12:10		15 Dec 2020 11:05	16 Dec 2020 22:36	1
HS20120540-21	SB-4-100-102	08 Dec 2020 12:25		15 Dec 2020 11:05	16 Dec 2020 22:54	1
HS20120540-22	Duplicate-3	08 Dec 2020 00:00		15 Dec 2020 11:05	16 Dec 2020 23:12	1
Batch ID: 160951 (0)	**Test Name :** ANIONS BY E300.0				**Matrix:** Soil	
HS20120540-01	SB-4-0-2	08 Dec 2020 08:30		22 Dec 2020 10:53	24 Dec 2020 12:00	1
HS20120540-17	SB-4-80-82	08 Dec 2020 11:15		22 Dec 2020 10:53	24 Dec 2020 11:19	1
Batch ID: 160978 (0)	**Test Name :** TPH DRO/ORO BY SW8015C				**Matrix:** Soil	
HS20120540-01	SB-4-0-2	08 Dec 2020 08:30		22 Dec 2020 11:30	23 Dec 2020 14:36	50
HS20120540-17	SB-4-80-82	08 Dec 2020 11:15		22 Dec 2020 11:30	23 Dec 2020 15:00	1

Revision: 1

ALS Houston, US Date: 30-Dec-20

Client: TRC Corporation
Project: Artesia Station West
WorkOrder: HS20120540

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R374443 (0)	**Test Name :** VOLATILES BY SW8260C				**Matrix:** Soil	
HS20120540-07	SB-4-30-32	08 Dec 2020 09:15			11 Dec 2020 16:46	1
HS20120540-09	SB-4-40-42	08 Dec 2020 09:25			11 Dec 2020 17:08	1
HS20120540-14	SB-4-65-67	08 Dec 2020 10:30			11 Dec 2020 17:52	1
HS20120540-16	SB-4-75-77	08 Dec 2020 11:00			11 Dec 2020 14:11	1
HS20120540-19	SB-4-90-92	08 Dec 2020 11:55			11 Dec 2020 14:33	1
HS20120540-20	SB-4-95-97	08 Dec 2020 12:10			11 Dec 2020 14:56	1
HS20120540-21	SB-4-100-102	08 Dec 2020 12:25			11 Dec 2020 15:18	1
HS20120540-22	Duplicate-3	08 Dec 2020 00:00			11 Dec 2020 15:40	1
Batch ID: R374597 (0)	**Test Name :** VOLATILES BY SW8260C				**Matrix:** Soil	
HS20120540-07	SB-4-30-32	08 Dec 2020 09:15			14 Dec 2020 13:08	1
HS20120540-14	SB-4-65-67	08 Dec 2020 10:30			14 Dec 2020 13:30	1
HS20120540-16	SB-4-75-77	08 Dec 2020 11:00			14 Dec 2020 13:52	1
HS20120540-22	Duplicate-3	08 Dec 2020 00:00			14 Dec 2020 14:14	1
Batch ID: R374794 (0)	**Test Name :** GASOLINE RANGE ORGANICS BY SW8015C				**Matrix:** Soil	
HS20120540-02	SB-4-5-7	08 Dec 2020 08:35			16 Dec 2020 16:37	1
HS20120540-07	SB-4-30-32	08 Dec 2020 09:15			16 Dec 2020 16:05	1
HS20120540-09	SB-4-40-42	08 Dec 2020 09:25			16 Dec 2020 14:18	1
HS20120540-11	SB-4-50-52	08 Dec 2020 09:45			16 Dec 2020 16:21	1
HS20120540-14	SB-4-65-67	08 Dec 2020 10:30			16 Dec 2020 14:34	1
HS20120540-16	SB-4-75-77	08 Dec 2020 11:00			16 Dec 2020 14:50	1
HS20120540-19	SB-4-90-92	08 Dec 2020 11:55			16 Dec 2020 17:41	1
HS20120540-20	SB-4-95-97	08 Dec 2020 12:10			16 Dec 2020 17:57	1
HS20120540-21	SB-4-100-102	08 Dec 2020 12:25			16 Dec 2020 18:13	1
HS20120540-22	Duplicate-3	08 Dec 2020 00:00			16 Dec 2020 18:29	1
Batch ID: R374841 (0)	**Test Name :** VOLATILES - SW8260C				**Matrix:** Water	
HS20120540-23	TB-12082020-1	08 Dec 2020 13:00			16 Dec 2020 17:24	1
Batch ID: R374869 (0)	**Test Name :** MOISTURE - ASTM D2216				**Matrix:** Soil	
HS20120540-02	SB-4-5-7	08 Dec 2020 08:35			17 Dec 2020 09:08	1
HS20120540-05	SB-4-20-22	08 Dec 2020 09:00			17 Dec 2020 09:08	1
HS20120540-07	SB-4-30-32	08 Dec 2020 09:15			17 Dec 2020 09:08	1
HS20120540-09	SB-4-40-42	08 Dec 2020 09:25			17 Dec 2020 09:08	1
HS20120540-11	SB-4-50-52	08 Dec 2020 09:45			17 Dec 2020 09:08	1
HS20120540-14	SB-4-65-67	08 Dec 2020 10:30			17 Dec 2020 09:08	1
HS20120540-16	SB-4-75-77	08 Dec 2020 11:00			17 Dec 2020 09:08	1
HS20120540-19	SB-4-90-92	08 Dec 2020 11:55			17 Dec 2020 09:08	1
HS20120540-20	SB-4-95-97	08 Dec 2020 12:10			17 Dec 2020 09:08	1
HS20120540-21	SB-4-100-102	08 Dec 2020 12:25			17 Dec 2020 09:08	1
HS20120540-22	Duplicate-3	08 Dec 2020 00:00			17 Dec 2020 09:08	1

Revision: 1

ALS Houston, US Date: 30-Dec-20

Client: TRC Corporation
Project: Artesia Station West
WorkOrder: HS20120540

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R374888 (0)	**Test Name :** GASOLINE RANGE ORGANICS BY SW8015C				**Matrix:** Soil	
HS20120540-05	SB-4-20-22	08 Dec 2020 09:00			17 Dec 2020 16:16	500
Batch ID: R375117 (0)	**Test Name :** VOLATILES BY SW8260C				**Matrix:** Soil	
HS20120540-01	SB-4-0-2	08 Dec 2020 08:30			22 Dec 2020 13:17	1
HS20120540-17	SB-4-80-82	08 Dec 2020 11:15			22 Dec 2020 12:55	1
Batch ID: R375129 (0)	**Test Name :** VOLATILES BY SW8260C				**Matrix:** Soil	
HS20120540-02	SB-4-5-7	08 Dec 2020 08:35			21 Dec 2020 14:21	250
HS20120540-05	SB-4-20-22	08 Dec 2020 09:00			21 Dec 2020 14:42	500
HS20120540-11	SB-4-50-52	08 Dec 2020 09:45			21 Dec 2020 15:03	100
Batch ID: R375187 (0)	**Test Name :** GASOLINE RANGE ORGANICS BY SW8015C				**Matrix:** Soil	
HS20120540-01	SB-4-0-2	08 Dec 2020 08:30			22 Dec 2020 22:44	1
HS20120540-17	SB-4-80-82	08 Dec 2020 11:15			22 Dec 2020 23:17	1
Batch ID: R375343 (0)	**Test Name :** MOISTURE - ASTM D2216				**Matrix:** Soil	
HS20120540-01	SB-4-0-2	08 Dec 2020 08:30			23 Dec 2020 15:58	1
HS20120540-17	SB-4-80-82	08 Dec 2020 11:15			23 Dec 2020 15:58	1
Batch ID: R375606 (0)	**Test Name :** GASOLINE RANGE ORGANICS BY SW8015C				**Matrix:** Soil	
HS20120540-05	SB-4-20-22	08 Dec 2020 09:00			29 Dec 2020 11:13	50

Revision: 1

ALS Houston, US Date: 30-Dec-20

Client: TRC Corporation
Project: Artesia Station West
WorkOrder: HS20120540

QC BATCH REPORT

Batch ID: 160667 (0) **Instrument: FID-8** **Method: TPH DRO/ORO BY SW8015C**

MBLK Sample ID: **MBLK-160667** Units: **mg/Kg** Analysis Date: **14-Dec-2020 16:19**
Client ID: Run ID: **FID-8_374829** SeqNo: **5885070** PrepDate: **14-Dec-2020** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	< 1.7	1.7								
TPH (Motor Oil Range)	< 3.4	3.4								
Surr: 2-Fluorobiphenyl	*2.685*	*0.10*	*3.33*	*0*	*80.6*	*70 - 130*				

LCS Sample ID: **LCS-160667** Units: **mg/Kg** Analysis Date: **14-Dec-2020 16:43**
Client ID: Run ID: **FID-8_374829** SeqNo: **5885071** PrepDate: **14-Dec-2020** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	32.43	1.7	33.33	0	97.3	70 - 130				
TPH (Motor Oil Range)	29.85	3.4	33.33	0	89.6	70 - 130				
Surr: 2-Fluorobiphenyl	*3.255*	*0.10*	*3.33*	*0*	*97.8*	*70 - 130*				

MS Sample ID: **HS20120540-02MS** Units: **mg/Kg** Analysis Date: **14-Dec-2020 17:32**
Client ID: **SB-4-5-7** Run ID: **FID-8_374829** SeqNo: **5885073** PrepDate: **14-Dec-2020** DF: **100**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	4382	170	33.3	4872	-1470	70 - 130				SO
TPH (Motor Oil Range)	2449	340	33.3	2600	-455	70 - 130				SO
Surr: 2-Fluorobiphenyl	*< 10*	*10*	*3.327*	*0*	*0*	*60 - 129*				JS

MSD Sample ID: **HS20120540-02MSD** Units: **mg/Kg** Analysis Date: **14-Dec-2020 17:56**
Client ID: **SB-4-5-7** Run ID: **FID-8_374829** SeqNo: **5885074** PrepDate: **14-Dec-2020** DF: **100**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	4515	170	33.16	4872	-1080	70 - 130	4382	3.01	30	SO
TPH (Motor Oil Range)	2892	340	33.16	2600	879	70 - 130	2449	16.6	30	SO
Surr: 2-Fluorobiphenyl	*< 10*	*10*	*3.313*	*0*	*0*	*60 - 129*	*0*	*0*	*30*	JS

The following samples were analyzed in this batch:

HS20120540-02	HS20120540-05	HS20120540-07	HS20120540-09
HS20120540-11	HS20120540-14	HS20120540-16	HS20120540-19
HS20120540-20	HS20120540-21	HS20120540-22	

Revision: 1

ALS Houston, US Date: 30-Dec-20

Client: TRC Corporation
Project: Artesia Station West
WorkOrder: HS20120540

QC BATCH REPORT

Batch ID: 160978 (0) **Instrument: FID-8** **Method: TPH DRO/ORO BY SW8015C**

MBLK Sample ID: **MBLK-160978** Units: **mg/Kg** Analysis Date: **23-Dec-2020 13:47**
Client ID: Run ID: **FID-8_375285** SeqNo: **5896149** PrepDate: **22-Dec-2020** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	< 1.7	1.7								
TPH (Motor Oil Range)	< 3.4	3.4								
Surr: 2-Fluorobiphenyl	*2.572*	*0.10*	*3.33*	*0*	*77.2*	*70 - 130*				

LCS Sample ID: **LCS-160978** Units: **mg/Kg** Analysis Date: **23-Dec-2020 14:11**
Client ID: Run ID: **FID-8_375285** SeqNo: **5896150** PrepDate: **22-Dec-2020** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	28.31	1.7	33.33	0	84.9	70 - 130				
TPH (Motor Oil Range)	23.38	3.4	33.33	0	70.1	70 - 130				
Surr: 2-Fluorobiphenyl	*2.452*	*0.10*	*3.33*	*0*	*73.6*	*70 - 130*				

MS Sample ID: **HS20121040-01MS** Units: **mg/Kg** Analysis Date: **23-Dec-2020 15:49**
Client ID: Run ID: **FID-8_375285** SeqNo: **5896154** PrepDate: **22-Dec-2020** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	2307	1.7	32.78	2301	17.3	70 - 130				SEO
TPH (Motor Oil Range)	8.88	3.3	32.78	0.9825	24.1	70 - 130				S
Surr: 2-Fluorobiphenyl	*30.65*	*0.098*	*3.275*	*0*	*936*	*60 - 129*				SE

MSD Sample ID: **HS20121040-01MSD** Units: **mg/Kg** Analysis Date: **23-Dec-2020 16:14**
Client ID: Run ID: **FID-8_375285** SeqNo: **5896155** PrepDate: **22-Dec-2020** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	1627	1.7	33.1	2301	-2040	70 - 130	2307	34.6	30	SREO
TPH (Motor Oil Range)	11.42	3.4	33.1	0.9825	31.5	70 - 130	8.88	25	30	S
Surr: 2-Fluorobiphenyl	*< 0.099*	*0.099*	*3.307*	*0*	*0*	*60 - 129*	*30.65*	*0*	*30*	JS

The following samples were analyzed in this batch: HS20120540-01 HS20120540-17

Revision: 1

ALS Houston, US Date: 30-Dec-20

Client: TRC Corporation
Project: Artesia Station West
WorkOrder: HS20120540

QC BATCH REPORT

Batch ID: R374794 (0) **Instrument:** FID-14 **Method:** GASOLINE RANGE ORGANICS BY SW8015C

MBLK Sample ID: **MBLK-121620** Units: **mg/Kg** Analysis Date: **16-Dec-2020 12:42**
Client ID: Run ID: **FID-14_374794** SeqNo: **5884153** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	< 0.050	0.050								
Surr: 4-Bromofluorobenzene	*0.09787*	*0.0050*	*0.1*	*0*	*97.9*	*75 - 121*				

LCS Sample ID: **LCS-121620** Units: **mg/Kg** Analysis Date: **16-Dec-2020 12:26**
Client ID: Run ID: **FID-14_374794** SeqNo: **5884152** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.161	0.050	1	0	116	72 - 121				
Surr: 4-Bromofluorobenzene	*0.09746*	*0.0050*	*0.1*	*0*	*97.5*	*75 - 121*				

MS Sample ID: **HS20120637-01MS** Units: **mg/Kg** Analysis Date: **16-Dec-2020 13:46**
Client ID: Run ID: **FID-14_374794** SeqNo: **5884157** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	0.7809	0.050	0.99	0	78.9	70 - 130				
Surr: 4-Bromofluorobenzene	*0.04804*	*0.0050*	*0.099*	*0*	*48.5*	*70 - 123*				S

MSD Sample ID: **HS20120637-01MSD** Units: **mg/Kg** Analysis Date: **16-Dec-2020 14:01**
Client ID: Run ID: **FID-14_374794** SeqNo: **5884158** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	0.8216	0.050	1	0	82.2	70 - 130	0.7809	5.08	30	
Surr: 4-Bromofluorobenzene	*0.05491*	*0.0050*	*0.1*	*0*	*54.9*	*70 - 123*	*0.04804*	*13.3*	*30*	S

The following samples were analyzed in this batch:

HS20120540-02	HS20120540-07	HS20120540-09	HS20120540-11
HS20120540-14	HS20120540-16	HS20120540-19	HS20120540-20
HS20120540-21	HS20120540-22		

Revision: 1

ALS Houston, US Date: 30-Dec-20

Client: TRC Corporation
Project: Artesia Station West
WorkOrder: HS20120540

QC BATCH REPORT

Batch ID: R374888 (0) **Instrument:** FID-14 **Method:** GASOLINE RANGE ORGANICS BY SW8015C

MBLK Sample ID: **MBLK-121720** Units: **mg/Kg** Analysis Date: **17-Dec-2020 15:44**
Client ID: Run ID: **FID-14_374888** SeqNo: **5886347** PrepDate: DF: **50**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	< 2.5	2.5								
Surr: 4-Bromofluorobenzene	*5.873*	*0.25*	*5*	*0*	*117*	*75 - 121*				

LCS Sample ID: **LCS-121720** Units: **mg/Kg** Analysis Date: **17-Dec-2020 15:13**
Client ID: Run ID: **FID-14_374888** SeqNo: **5886345** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.113	0.050	1	0	111	72 - 121				
Surr: 4-Bromofluorobenzene	*0.1201*	*0.0050*	*0.1*	*0*	*120*	*75 - 121*				

LCSD Sample ID: **LCSD-121720** Units: **mg/Kg** Analysis Date: **17-Dec-2020 15:28**
Client ID: Run ID: **FID-14_374888** SeqNo: **5886346** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.087	0.050	1	0	109	72 - 121	1.113	2.44	30	
Surr: 4-Bromofluorobenzene	*0.1199*	*0.0050*	*0.1*	*0*	*120*	*75 - 121*	*0.1201*	*0.167*	*30*	

The following samples were analyzed in this batch: HS20120540-05

Revision: 1

ALS Houston, US Date: 30-Dec-20

Client: TRC Corporation
Project: Artesia Station West
WorkOrder: HS20120540

QC BATCH REPORT

Batch ID: R375187 (0) **Instrument:** FID-14 **Method:** GASOLINE RANGE ORGANICS BY SW8015C

MBLK Sample ID: **MBLK-122220** Units: **mg/Kg** Analysis Date: **23-Dec-2020 01:27**
Client ID: Run ID: **FID-14_375187** SeqNo: **5893966** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	< 0.050	0.050								
Surr: 4-Bromofluorobenzene	*0.08185*	*0.0050*	*0.1*	*0*	*81.8*	*75 - 121*				

LCS Sample ID: **LCS-122220** Units: **mg/Kg** Analysis Date: **23-Dec-2020 01:11**
Client ID: Run ID: **FID-14_375187** SeqNo: **5893965** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.106	0.050	1	0	111	72 - 121				
Surr: 4-Bromofluorobenzene	*0.09043*	*0.0050*	*0.1*	*0*	*90.4*	*75 - 121*				

MS Sample ID: **HS20120540-01MS** Units: **mg/Kg** Analysis Date: **22-Dec-2020 23:50**
Client ID: **SB-4-0-2** Run ID: **FID-14_375187** SeqNo: **5893963** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	0.363	0.050	1	0.1821	18.1	70 - 130				S
Surr: 4-Bromofluorobenzene	*0.02818*	*0.0050*	*0.1*	*0*	*28.2*	*70 - 123*				S

MSD Sample ID: **HS20120540-01MSD** Units: **mg/Kg** Analysis Date: **23-Dec-2020 00:06**
Client ID: **SB-4-0-2** Run ID: **FID-14_375187** SeqNo: **5893964** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	0.4983	0.050	1	0.1821	31.6	70 - 130	0.363	31.4	30	SR
Surr: 4-Bromofluorobenzene	*0.03364*	*0.0050*	*0.1*	*0*	*33.6*	*70 - 123*	*0.02818*	*17.7*	*30*	S

The following samples were analyzed in this batch: HS20120540-01 HS20120540-17

Revision: 1

ALS Houston, US Date: 30-Dec-20

Client: TRC Corporation
Project: Artesia Station West
WorkOrder: HS20120540

QC BATCH REPORT

Batch ID: R375606 (0) **Instrument:** FID-14 **Method:** GASOLINE RANGE ORGANICS BY SW8015C

MBLK Sample ID: **MBLK-122820** Units: **mg/Kg** Analysis Date: **28-Dec-2020 11:19**
Client ID: Run ID: **FID-14_375606** SeqNo: **5903777** PrepDate: DF: **50**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	< 2.5	2.5								
Surr: 4-Bromofluorobenzene	*5.723*	*0.25*	*5*	*0*	*114*	*75 - 121*				

LCS Sample ID: **LCS-122820** Units: **mg/L** Analysis Date: **28-Dec-2020 10:31**
Client ID: Run ID: **FID-14_375606** SeqNo: **5903853** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	0.9917	0.0500	1	0	99.2	76 - 124				
Surr: 4-Bromofluorobenzene	*0.1034*	*0.00500*	*0.1*	*0*	*103*	*52 - 138*				

LCSD Sample ID: **LCSD-122820** Units: **mg/L** Analysis Date: **28-Dec-2020 10:47**
Client ID: Run ID: **FID-14_375606** SeqNo: **5903854** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.185	0.0500	1	0	118	76 - 124	0.9917	17.7	20	
Surr: 4-Bromofluorobenzene	*0.1127*	*0.00500*	*0.1*	*0*	*113*	*52 - 138*	*0.1034*	*8.59*	*20*	

The following samples were analyzed in this batch: HS20120540-05

Revision: 1

ALS Houston, US Date: 30-Dec-20

Client: TRC Corporation
Project: Artesia Station West
WorkOrder: HS20120540

QC BATCH REPORT

Batch ID: R374443 (0) **Instrument:** VOA5 **Method:** VOLATILES BY SW8260C

MBLK Sample ID: **VBLKS1-121120** Units: **ug/Kg** Analysis Date: **11-Dec-2020 10:30**
Client ID: Run ID: **VOA5_374443** SeqNo: **5875558** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	< 5.0	5.0								
Ethylbenzene	< 5.0	5.0								
Toluene	< 5.0	5.0								
Xylenes, Total	< 5.0	5.0								
Surr: 1,2-Dichloroethane-d4	*50.09*	*0*	*50*	*0*	*100*	*76 - 125*				
Surr: 4-Bromofluorobenzene	*48.46*	*0*	*50*	*0*	*96.9*	*80 - 120*				
Surr: Dibromofluoromethane	*44.13*	*0*	*50*	*0*	*88.3*	*80 - 119*				
Surr: Toluene-d8	*47.8*	*0*	*50*	*0*	*95.6*	*81 - 118*				

LCS Sample ID: **VLCSS1-121120** Units: **ug/Kg** Analysis Date: **11-Dec-2020 09:46**
Client ID: Run ID: **VOA5_374443** SeqNo: **5875557** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	49.08	5.0	50	0	98.2	75 - 124				
Ethylbenzene	51.8	5.0	50	0	104	70 - 123				
Toluene	50.28	5.0	50	0	101	76 - 122				
Xylenes, Total	154.9	5.0	150	0	103	77 - 128				
Surr: 1,2-Dichloroethane-d4	*53.37*	*0*	*50*	*0*	*107*	*76 - 125*				
Surr: 4-Bromofluorobenzene	*49.67*	*0*	*50*	*0*	*99.3*	*80 - 120*				
Surr: Dibromofluoromethane	*47.92*	*0*	*50*	*0*	*95.8*	*80 - 119*				
Surr: Toluene-d8	*48.61*	*0*	*50*	*0*	*97.2*	*81 - 118*				

MS Sample ID: **HS20120536-02MS** Units: **ug/Kg** Analysis Date: **11-Dec-2020 13:27**
Client ID: Run ID: **VOA5_374443** SeqNo: **5875560** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	31.03	5.0	50.5	0	61.5	70 - 130				S
Ethylbenzene	27.16	5.0	50.5	0	53.8	70 - 130				S
Toluene	29.77	5.0	50.5	0	58.9	70 - 130				S
Xylenes, Total	83.75	5.0	151.5	0	55.3	70 - 130				S
Surr: 1,2-Dichloroethane-d4	*58.75*	*0*	*50.5*	*0*	*116*	*70 - 126*				
Surr: 4-Bromofluorobenzene	*51.05*	*0*	*50.5*	*0*	*101*	*70 - 130*				
Surr: Dibromofluoromethane	*49.24*	*0*	*50.5*	*0*	*97.5*	*70 - 130*				
Surr: Toluene-d8	*50.74*	*0*	*50.5*	*0*	*100*	*70 - 130*				

Revision: 1

ALS Houston, US Date: 30-Dec-20

Client: TRC Corporation
Project: Artesia Station West
WorkOrder: HS20120540

QC BATCH REPORT

Batch ID: R374443 (0) **Instrument: VOA5** **Method: VOLATILES BY SW8260C**

MSD Sample ID: **HS20120536-02MSD** Units: **ug/Kg** Analysis Date: **11-Dec-2020 13:49**
Client ID: Run ID: **VOA5_374443** SeqNo: **5875561** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	39.01	5.0	50	0	78.0	70 - 130	31.03	22.8	30	
Ethylbenzene	35.3	5.0	50	0	70.6	70 - 130	27.16	26.1	30	
Toluene	37.7	5.0	50	0	75.4	70 - 130	29.77	23.5	30	
Xylenes, Total	105.4	5.0	150	0	70.3	70 - 130	83.75	22.9	30	
Surr: 1,2-Dichloroethane-d4	*56.33*	*0*	*50*	*0*	*113*	*70 - 126*	*58.75*	*4.21*	*30*	
Surr: 4-Bromofluorobenzene	*50.45*	*0*	*50*	*0*	*101*	*70 - 130*	*51.05*	*1.18*	*30*	
Surr: Dibromofluoromethane	*49*	*0*	*50*	*0*	*98.0*	*70 - 130*	*49.24*	*0.475*	*30*	
Surr: Toluene-d8	*49.42*	*0*	*50*	*0*	*98.8*	*70 - 130*	*50.74*	*2.63*	*30*	

The following samples were analyzed in this batch:

HS20120540-07	HS20120540-09	HS20120540-14	HS20120540-16
HS20120540-19	HS20120540-20	HS20120540-21	HS20120540-22

Revision: 1

ALS Houston, US Date: 30-Dec-20

Client: TRC Corporation
Project: Artesia Station West
WorkOrder: HS20120540

QC BATCH REPORT

Batch ID: R374597 (0) **Instrument: VOA5** **Method: VOLATILES BY SW8260C**

MBLK Sample ID: **VBLKS1-121420** Units: **ug/Kg** Analysis Date: **14-Dec-2020 12:46**
Client ID: Run ID: **VOA5_374597** SeqNo: **5879611** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethylbenzene	< 5.0	5.0								
Toluene	< 5.0	5.0								
Xylenes, Total	< 5.0	5.0								
Surr: 1,2-Dichloroethane-d4	*59.56*	*0*	*50*	*0*	*119*	*76 - 125*				
Surr: 4-Bromofluorobenzene	*52.4*	*0*	*50*	*0*	*105*	*80 - 120*				
Surr: Dibromofluoromethane	*49.71*	*0*	*50*	*0*	*99.4*	*80 - 119*				
Surr: Toluene-d8	*50.9*	*0*	*50*	*0*	*102*	*81 - 118*				

LCS Sample ID: **VLCSS1-121420** Units: **ug/Kg** Analysis Date: **14-Dec-2020 12:01**
Client ID: Run ID: **VOA5_374597** SeqNo: **5879610** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethylbenzene	41.99	5.0	50	0	84.0	70 - 123				
Toluene	41.09	5.0	50	0	82.2	76 - 122				
Xylenes, Total	127.3	5.0	150	0	84.9	77 - 128				
Surr: 1,2-Dichloroethane-d4	*58.03*	*0*	*50*	*0*	*116*	*76 - 125*				
Surr: 4-Bromofluorobenzene	*52.33*	*0*	*50*	*0*	*105*	*80 - 120*				
Surr: Dibromofluoromethane	*51.11*	*0*	*50*	*0*	*102*	*80 - 119*				
Surr: Toluene-d8	*50.29*	*0*	*50*	*0*	*101*	*81 - 118*				

MS Sample ID: **HS20120668-01MS** Units: **ug/Kg** Analysis Date: **14-Dec-2020 15:20**
Client ID: Run ID: **VOA5_374597** SeqNo: **5879617** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethylbenzene	43.06	5.2	51.5	0	83.6	70 - 130				
Toluene	45.12	5.2	51.5	0	87.6	70 - 130				
Xylenes, Total	129.9	5.2	154.5	0	84.1	70 - 130				
Surr: 1,2-Dichloroethane-d4	*64.89*	*0*	*51.5*	*0*	*126*	*70 - 126*				
Surr: 4-Bromofluorobenzene	*53.3*	*0*	*51.5*	*0*	*103*	*70 - 130*				
Surr: Dibromofluoromethane	*54.27*	*0*	*51.5*	*0*	*105*	*70 - 130*				
Surr: Toluene-d8	*51.27*	*0*	*51.5*	*0*	*99.6*	*70 - 130*				

Revision: 1

ALS Houston, US Date: 30-Dec-20

Client: TRC Corporation
Project: Artesia Station West
WorkOrder: HS20120540

QC BATCH REPORT

Batch ID: R374597 (0) **Instrument: VOA5** **Method: VOLATILES BY SW8260C**

MSD Sample ID: **HS20120668-01MSD** Units: **ug/Kg** Analysis Date: **14-Dec-2020 15:42**
Client ID: Run ID: **VOA5_374597** SeqNo: **5879618** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Ethylbenzene	40.48	4.9	49	0	82.6	70 - 130	43.06	6.18	30	
Toluene	42.09	4.9	49	0	85.9	70 - 130	45.12	6.95	30	
Xylenes, Total	123.8	4.9	147	0	84.2	70 - 130	129.9	4.85	30	
Surr: 1,2-Dichloroethane-d4	*60.82*	*0*	*49*	*0*	*124*	*70 - 126*	*64.89*	*6.47*	*30*	
Surr: 4-Bromofluorobenzene	*51.05*	*0*	*49*	*0*	*104*	*70 - 130*	*53.3*	*4.3*	*30*	
Surr: Dibromofluoromethane	*50.82*	*0*	*49*	*0*	*104*	*70 - 130*	*54.27*	*6.58*	*30*	
Surr: Toluene-d8	*49.41*	*0*	*49*	*0*	*101*	*70 - 130*	*51.27*	*3.7*	*30*	

The following samples were analyzed in this batch: HS20120540-07 HS20120540-14 HS20120540-16 HS20120540-22

Revision: 1

ALS Houston, US Date: 30-Dec-20

Client: TRC Corporation
Project: Artesia Station West
WorkOrder: HS20120540

QC BATCH REPORT

Batch ID: R374841 (0) **Instrument:** VOA9 **Method:** VOLATILES - SW8260C

MBLK Sample ID: **VBLKW-201216** Units: **ug/L** Analysis Date: **16-Dec-2020 13:16**
Client ID: Run ID: **VOA9_374841** SeqNo: **5885293** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	< 5.0	5.0								
Ethylbenzene	< 5.0	5.0								
m,p-Xylene	< 10	10								
o-Xylene	< 5.0	5.0								
Toluene	< 5.0	5.0								
Xylenes, Total	< 5.0	5.0								
Surr: 1,2-Dichloroethane-d4	*49.86*	*0*	*50*	*0*	*99.7*	*70 - 130*				
Surr: 4-Bromofluorobenzene	*49.62*	*0*	*50*	*0*	*99.2*	*82 - 115*				
Surr: Dibromofluoromethane	*49.13*	*0*	*50*	*0*	*98.3*	*73 - 126*				
Surr: Toluene-d8	*48.41*	*0*	*50*	*0*	*96.8*	*81 - 120*				

LCS Sample ID: **VLCSW-201216** Units: **ug/L** Analysis Date: **16-Dec-2020 12:34**
Client ID: Run ID: **VOA9_374841** SeqNo: **5885292** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	19.42	5.0	20	0	97.1	74 - 120				
Ethylbenzene	18.82	5.0	20	0	94.1	77 - 117				
m,p-Xylene	37.65	10	40	0	94.1	77 - 122				
o-Xylene	18.85	5.0	20	0	94.2	75 - 119				
Toluene	18.84	5.0	20	0	94.2	77 - 118				
Xylenes, Total	56.5	5.0	60	0	94.2	75 - 122				
Surr: 1,2-Dichloroethane-d4	*48.87*	*0*	*50*	*0*	*97.7*	*70 - 130*				
Surr: 4-Bromofluorobenzene	*49.19*	*0*	*50*	*0*	*98.4*	*82 - 115*				
Surr: Dibromofluoromethane	*50.18*	*0*	*50*	*0*	*100*	*73 - 126*				
Surr: Toluene-d8	*48.27*	*0*	*50*	*0*	*96.5*	*81 - 120*				

Revision: 1

ALS Houston, US Date: 30-Dec-20

Client: TRC Corporation
Project: Artesia Station West
WorkOrder: HS20120540

QC BATCH REPORT

Batch ID: R374841 (0) **Instrument:** VOA9 **Method:** VOLATILES - SW8260C

MS Sample ID: **HS20120548-01MS** Units: **ug/L** Analysis Date: **16-Dec-2020 15:17**
Client ID: Run ID: **VOA9_374841** SeqNo: **5885297** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	22.34	5.0	20	0	112	70 - 127				
Ethylbenzene	22.82	5.0	20	0	114	70 - 124				
m,p-Xylene	45.48	10	40	0	114	70 - 130				
o-Xylene	22.35	5.0	20	0	112	70 - 124				
Toluene	22.2	5.0	20	0	111	70 - 123				
Xylenes, Total	67.83	5.0	60	0	113	70 - 130				
Surr: 1,2-Dichloroethane-d4	*51.4*	*0*	*50*	*0*	*103*	*70 - 126*				
Surr: 4-Bromofluorobenzene	*49.99*	*0*	*50*	*0*	*100.0*	*82 - 124*				
Surr: Dibromofluoromethane	*51.03*	*0*	*50*	*0*	*102*	*77 - 123*				
Surr: Toluene-d8	*48.59*	*0*	*50*	*0*	*97.2*	*82 - 127*				

MSD Sample ID: **HS20120548-01MSD** Units: **ug/L** Analysis Date: **16-Dec-2020 15:38**
Client ID: Run ID: **VOA9_374841** SeqNo: **5885298** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	21.84	5.0	20	0	109	70 - 127	22.34	2.27	20	
Ethylbenzene	22.81	5.0	20	0	114	70 - 124	22.82	0.0261	20	
m,p-Xylene	44.72	10	40	0	112	70 - 130	45.48	1.69	20	
o-Xylene	22.19	5.0	20	0	111	70 - 124	22.35	0.7	20	
Toluene	22.1	5.0	20	0	111	70 - 123	22.2	0.42	20	
Xylenes, Total	66.91	5.0	60	0	112	70 - 130	67.83	1.36	20	
Surr: 1,2-Dichloroethane-d4	*51.25*	*0*	*50*	*0*	*103*	*70 - 126*	*51.4*	*0.289*	*20*	
Surr: 4-Bromofluorobenzene	*49.87*	*0*	*50*	*0*	*99.7*	*82 - 124*	*49.99*	*0.234*	*20*	
Surr: Dibromofluoromethane	*50.8*	*0*	*50*	*0*	*102*	*77 - 123*	*51.03*	*0.447*	*20*	
Surr: Toluene-d8	*48.23*	*0*	*50*	*0*	*96.5*	*82 - 127*	*48.59*	*0.739*	*20*	

The following samples were analyzed in this batch: HS20120540-23

Revision: 1

ALS Houston, US Date: 30-Dec-20

Client: TRC Corporation
Project: Artesia Station West
WorkOrder: HS20120540

QC BATCH REPORT

Batch ID: R375117 (0) **Instrument:** VOA5 **Method:** VOLATILES BY SW8260C

MBLK Sample ID: **VBLKS2-122220** Units: **ug/Kg** Analysis Date: **22-Dec-2020 11:49**
Client ID: Run ID: **VOA5_375117** SeqNo: **5892228** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	< 5.0	5.0								
Ethylbenzene	< 5.0	5.0								
Toluene	< 5.0	5.0								
Xylenes, Total	< 5.0	5.0								
Surr: 1,2-Dichloroethane-d4	*46.87*	*0*	*50*	*0*	*93.7*	*76 - 125*				
Surr: 4-Bromofluorobenzene	*47.42*	*0*	*50*	*0*	*94.8*	*80 - 120*				
Surr: Dibromofluoromethane	*47.51*	*0*	*50*	*0*	*95.0*	*80 - 119*				
Surr: Toluene-d8	*50.77*	*0*	*50*	*0*	*102*	*81 - 118*				

LCS Sample ID: **VLCSS2-122220** Units: **ug/Kg** Analysis Date: **22-Dec-2020 11:05**
Client ID: Run ID: **VOA5_375117** SeqNo: **5892227** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	56.51	5.0	50	0	113	75 - 124				
Ethylbenzene	55.89	5.0	50	0	112	70 - 123				
Toluene	53.04	5.0	50	0	106	76 - 122				
Xylenes, Total	169.4	5.0	150	0	113	77 - 128				
Surr: 1,2-Dichloroethane-d4	*44.78*	*0*	*50*	*0*	*89.6*	*76 - 125*				
Surr: 4-Bromofluorobenzene	*48.32*	*0*	*50*	*0*	*96.6*	*80 - 120*				
Surr: Dibromofluoromethane	*47.53*	*0*	*50*	*0*	*95.1*	*80 - 119*				
Surr: Toluene-d8	*50.37*	*0*	*50*	*0*	*101*	*81 - 118*				

MS Sample ID: **HS20120805-03MS** Units: **ug/Kg** Analysis Date: **22-Dec-2020 12:33**
Client ID: Run ID: **VOA5_375117** SeqNo: **5892703** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	45.1	4.0	40.5	0	111	70 - 130				
Ethylbenzene	42.69	4.0	40.5	0	105	70 - 130				
Toluene	43.01	4.0	40.5	0	106	70 - 130				
Xylenes, Total	131	4.0	121.5	0	108	70 - 130				
Surr: 1,2-Dichloroethane-d4	*37.21*	*0*	*40.5*	*0*	*91.9*	*70 - 126*				
Surr: 4-Bromofluorobenzene	*39.91*	*0*	*40.5*	*0*	*98.6*	*70 - 130*				
Surr: Dibromofluoromethane	*39.95*	*0*	*40.5*	*0*	*98.6*	*70 - 130*				
Surr: Toluene-d8	*41.62*	*0*	*40.5*	*0*	*103*	*70 - 130*				

Revision: 1

ALS Houston, US Date: 30-Dec-20

Client: TRC Corporation
Project: Artesia Station West
WorkOrder: HS20120540

QC BATCH REPORT

Batch ID: R375117 (0) **Instrument: VOA5** **Method: VOLATILES BY SW8260C**

MSD Sample ID: **HS20120805-03MSD** Units: **ug/Kg** Analysis Date: **22-Dec-2020 13:39**
Client ID: Run ID: **VOA5_375117** SeqNo: **5892704** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	33.77	4.2	42.5	0	79.5	70 - 130	45.1	28.7	30	
Ethylbenzene	31.36	4.2	42.5	0	73.8	70 - 130	42.69	30.6	30	R
Toluene	31.65	4.2	42.5	0	74.5	70 - 130	43.01	30.4	30	R
Xylenes, Total	95.28	4.2	127.5	0	74.7	70 - 130	131	31.6	30	R
Surr: 1,2-Dichloroethane-d4	*37.74*	*0*	*42.5*	*0*	*88.8*	*70 - 126*	*37.21*	*1.4*	*30*	
Surr: 4-Bromofluorobenzene	*41.55*	*0*	*42.5*	*0*	*97.8*	*70 - 130*	*39.91*	*4.02*	*30*	
Surr: Dibromofluoromethane	*40.43*	*0*	*42.5*	*0*	*95.1*	*70 - 130*	*39.95*	*1.18*	*30*	
Surr: Toluene-d8	*43.85*	*0*	*42.5*	*0*	*103*	*70 - 130*	*41.62*	*5.23*	*30*	

The following samples were analyzed in this batch: HS20120540-01 HS20120540-17

Revision: 1

ALS Houston, US Date: 30-Dec-20

Client: TRC Corporation
Project: Artesia Station West
WorkOrder: HS20120540

QC BATCH REPORT

Batch ID: R375129 (0) **Instrument: VOA9** **Method: VOLATILES BY SW8260C**

MBLK Sample ID: **VBLKM-201221** Units: **ug/Kg** Analysis Date: **21-Dec-2020 12:56**
Client ID: Run ID: **VOA9_375129** SeqNo: **5892474** PrepDate: DF: **50**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	< 250	250								
Ethylbenzene	< 250	250								
Toluene	< 250	250								
Xylenes, Total	< 250	250								
Surr: 1,2-Dichloroethane-d4	*2517*	*0*	*2500*	*0*	*101*	*76 - 125*				
Surr: 4-Bromofluorobenzene	*2430*	*0*	*2500*	*0*	*97.2*	*80 - 120*				
Surr: Dibromofluoromethane	*2466*	*0*	*2500*	*0*	*98.7*	*80 - 119*				
Surr: Toluene-d8	*2499*	*0*	*2500*	*0*	*100.0*	*81 - 118*				

LCS Sample ID: **VLCSW-201221** Units: **ug/L** Analysis Date: **21-Dec-2020 12:14**
Client ID: Run ID: **VOA9_375129** SeqNo: **5892448** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	21.65	5.0	20	0	108	74 - 120				
Ethylbenzene	22.02	5.0	20	0	110	77 - 117				
Toluene	21.79	5.0	20	0	109	77 - 118				
Xylenes, Total	66.89	5.0	60	0	111	75 - 122				
Surr: 1,2-Dichloroethane-d4	*48.8*	*0*	*50*	*0*	*97.6*	*70 - 130*				
Surr: 4-Bromofluorobenzene	*50.3*	*0*	*50*	*0*	*101*	*82 - 115*				
Surr: Dibromofluoromethane	*49.31*	*0*	*50*	*0*	*98.6*	*73 - 126*				
Surr: Toluene-d8	*50.09*	*0*	*50*	*0*	*100*	*81 - 120*				

MS Sample ID: **HS20120920-01MS** Units: **ug/L** Analysis Date: **21-Dec-2020 17:09**
Client ID: Run ID: **VOA9_375129** SeqNo: **5892450** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	22.95	5.0	20	0	115	70 - 127				
Ethylbenzene	23.41	5.0	20	0	117	70 - 124				
Toluene	23.21	5.0	20	0	116	70 - 123				
Xylenes, Total	72.68	5.0	60	0	121	70 - 130				
Surr: 1,2-Dichloroethane-d4	*48.53*	*0*	*50*	*0*	*97.1*	*70 - 126*				
Surr: 4-Bromofluorobenzene	*49.5*	*0*	*50*	*0*	*99.0*	*82 - 124*				
Surr: Dibromofluoromethane	*49.52*	*0*	*50*	*0*	*99.0*	*77 - 123*				
Surr: Toluene-d8	*49.78*	*0*	*50*	*0*	*99.6*	*82 - 127*				

Revision: 1

ALS Houston, US Date: 30-Dec-20

Client: TRC Corporation
Project: Artesia Station West
WorkOrder: HS20120540

QC BATCH REPORT

Batch ID: R375129 (0) **Instrument: VOA9** **Method: VOLATILES BY SW8260C**

MSD Sample ID: **HS20120920-01MSD** Units: **ug/L** Analysis Date: **21-Dec-2020 17:30**
Client ID: Run ID: **VOA9_375129** SeqNo: **5892451** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Benzene	22.13	5.0	20	0	111	70 - 127	22.95	3.63	20	
Ethylbenzene	23.37	5.0	20	0	117	70 - 124	23.41	0.166	20	
Toluene	22.82	5.0	20	0	114	70 - 123	23.21	1.71	20	
Xylenes, Total	72.72	5.0	60	0	121	70 - 130	72.68	0.0524	20	
Surr: 1,2-Dichloroethane-d4	*48.42*	*0*	*50*	*0*	*96.8*	*70 - 126*	*48.53*	*0.225*	*20*	
Surr: 4-Bromofluorobenzene	*50.4*	*0*	*50*	*0*	*101*	*82 - 124*	*49.5*	*1.79*	*20*	
Surr: Dibromofluoromethane	*49.01*	*0*	*50*	*0*	*98.0*	*77 - 123*	*49.52*	*1.05*	*20*	
Surr: Toluene-d8	*50.67*	*0*	*50*	*0*	*101*	*82 - 127*	*49.78*	*1.76*	*20*	

The following samples were analyzed in this batch: HS20120540-02 HS20120540-05 HS20120540-11

Revision: 1

ALS Houston, US Date: 30-Dec-20

Client: TRC Corporation
Project: Artesia Station West
WorkOrder: HS20120540

QC BATCH REPORT

Batch ID: 160690 (0) **Instrument:** ICS2100 **Method:** ANIONS BY E300.0

MBLK Sample ID: **MBLK-160690** Units: **mg/Kg** Analysis Date: **16-Dec-2020 10:39**
Client ID: Run ID: **ICS2100_374879** SeqNo: **5886134** PrepDate: **15-Dec-2020** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	< 5.00	5.00								

LCS Sample ID: **LCS-160690** Units: **mg/Kg** Analysis Date: **16-Dec-2020 10:58**
Client ID: Run ID: **ICS2100_374879** SeqNo: **5886135** PrepDate: **15-Dec-2020** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	196.3	5.00	200	0	98.2	90 - 110				

MS Sample ID: **HS20120609-02MS** Units: **mg/Kg** Analysis Date: **16-Dec-2020 23:49**
Client ID: Run ID: **ICS2100_374879** SeqNo: **5886154** PrepDate: **15-Dec-2020** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	270.5	5.00	99.97	185.7	84.9	75 - 125				

MS Sample ID: **HS20120540-07MS** Units: **mg/Kg** Analysis Date: **16-Dec-2020 19:42**
Client ID: **SB-4-30-32** Run ID: **ICS2100_374879** SeqNo: **5886141** PrepDate: **15-Dec-2020** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	168	4.90	98.09	71.93	97.9	75 - 125				

MSD Sample ID: **HS20120609-02MSD** Units: **mg/Kg** Analysis Date: **17-Dec-2020 00:07**
Client ID: Run ID: **ICS2100_374879** SeqNo: **5886155** PrepDate: **15-Dec-2020** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	274	4.95	99.09	185.7	89.2	75 - 125	270.5	1.28	20	

MSD Sample ID: **HS20120540-07MSD** Units: **mg/Kg** Analysis Date: **16-Dec-2020 19:59**
Client ID: **SB-4-30-32** Run ID: **ICS2100_374879** SeqNo: **5886142** PrepDate: **15-Dec-2020** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	166.2	5.00	100	71.93	94.3	75 - 125	168	1.04	20	

The following samples were analyzed in this batch:

HS20120540-02	HS20120540-05	HS20120540-07	HS20120540-09
HS20120540-11	HS20120540-14	HS20120540-16	HS20120540-19
HS20120540-20	HS20120540-21	HS20120540-22	

Revision: 1

ALS Houston, US Date: 30-Dec-20

Client: TRC Corporation
Project: Artesia Station West
WorkOrder: HS20120540

QC BATCH REPORT

Batch ID: 160951 (0) **Instrument: ICS2100** **Method: ANIONS BY E300.0**

MBLK Sample ID: **MBLK-160951** Units: **mg/Kg** Analysis Date: **23-Dec-2020 14:10**
Client ID: Run ID: **ICS2100_375263** SeqNo: **5895717** PrepDate: **22-Dec-2020** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	< 5.00	5.00								

LCS Sample ID: **LCS-160951** Units: **mg/Kg** Analysis Date: **23-Dec-2020 14:27**
Client ID: Run ID: **ICS2100_375263** SeqNo: **5895718** PrepDate: **22-Dec-2020** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	199.5	5.00	200	0	99.8	90 - 110				

MS Sample ID: **HS20121005-04MS** Units: **mg/Kg** Analysis Date: **23-Dec-2020 10:45**
Client ID: Run ID: **ICS2100_375263** SeqNo: **5895710** PrepDate: **22-Dec-2020** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	141	4.97	99.49	38.8	103	75 - 125				

MSD Sample ID: **HS20121005-04MSD** Units: **mg/Kg** Analysis Date: **23-Dec-2020 11:03**
Client ID: Run ID: **ICS2100_375263** SeqNo: **5895711** PrepDate: **22-Dec-2020** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	149.7	4.94	98.83	38.8	112	75 - 125	141	6	20	

The following samples were analyzed in this batch: HS20120540-01 HS20120540-17

Revision: 1

ALS Houston, US Date: 30-Dec-20

Client: TRC Corporation
Project: Artesia Station West
WorkOrder: HS20120540

QC BATCH REPORT

Batch ID: R374869 (0) **Instrument:** Balance1 **Method:** MOISTURE - ASTM D2216

DUP Sample ID: **HS20120584-10DUP** Units: **wt%** Analysis Date: **17-Dec-2020 09:08**
Client ID: Run ID: **Balance1_374869** SeqNo: **5885985** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Percent Moisture	19.6	0.0100					20.2	3.02	20	

The following samples were analyzed in this batch:

HS20120540-02	HS20120540-05	HS20120540-07	HS20120540-09
HS20120540-11	HS20120540-14	HS20120540-16	HS20120540-19
HS20120540-20	HS20120540-21	HS20120540-22	

Revision: 1

ALS Houston, US Date: 30-Dec-20

Client: TRC Corporation
Project: Artesia Station West
WorkOrder: HS20120540

QC BATCH REPORT

Batch ID: R375343 (0) **Instrument:** Balance1 **Method:** MOISTURE - ASTM D2216

DUP Sample ID: **HS20120632-08DUP** Units: **wt%** Analysis Date: **23-Dec-2020 15:58**
Client ID: Run ID: **Balance1_375343** SeqNo: **5897667** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Percent Moisture	22.4	0.0100					22.1	1.35	20	

The following samples were analyzed in this batch: HS20120540-01 HS20120540-17

Revision: 1

ALS Houston, US Date: 30-Dec-20

Client: TRC Corporation
Project: Artesia Station West
WorkOrder: **HS20120540**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
mg/Kg	Milligrams per Kilogram
mg/L	Milligrams per Liter

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	20-030-0	26-Mar-2021
California	2919, 2020-2021	30-Apr-2021
Dept of Defense	PJLA L20-507	22-Dec-2021
Florida	E87611-30-07/01/2020	30-Jun-2021
Illinois	2000322020-4	09-May-2021
Kansas	E-10352 2020-2021	31-Jul-2021
Kentucky	123043, 2020-2021	30-Apr-2021
Louisiana	03087, 2020-2021	30-Jun-2021
North Carolina	624-2020	31-Dec-2020
North Dakota	R-193 2020-2021	30-Apr-2021
Oklahoma	2020-165	31-Aug-2021
Texas	T104704231-20-26	30-Apr-2021

ALS Houston, US Date: 30-Dec-20

Sample Receipt Checklist

Work Order ID: HS20120540 **Date/Time Received:** 10-Dec-2020 12:55

Client Name: TRC-AUS **Received by:** Jared R. Makan

Completed By:	/S/ Pablo Marinez	10-Dec-2020 18:30	**Reviewed by:**	/S/ RJ Modashia	11-Dec-2020 08:49
	eSignature	Date/Time		eSignature	Date/Time

Matrices: **SOIL/WATER** Carrier name: **FedEx**

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	Yes ☐	No ☑	Not Present ☐
Chain of custody present?	Yes ☑	No ☐	3 Page(s)
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	COC IDs:232642/232640/232641
Samplers name present on COC?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☐	No ☑	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	

Temperature(s)/Thermometer(s):	1.3C/1.1C UC/C	IR 31
Cooler(s)/Kit(s):	46808/46809	
Date/Time sample(s) sent to storage:	12/10/20 19:00	

Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:			

Login Notes: SB-4-80-82 - Sample Label missing Collection Time, logged per CoC

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

Cincinnati, OH +1 513 733 5336
Everett, WA +1 425 356 2600
Fort Collins, CO +1 970 490 1511
Holland, MI +1 616 399 6070

Chain of Custody Form

Page 1 of 3

COC ID: 232642

HS20120540

WV

TRC Corporation
Artesia Station West

ALS Project Manager:

Customer Information		Project Information	
Purchase Order		Project Name	Artesia Station West
Work Order		Project Number	376574 Phase 000001
Company Name	TRC Corporation	Bill To Company	TRC Corporation
Send Report To	Richard (RD) Varnell	Invoice Attn	TRC-AP
Address	505 East Huntland Drive Suite 250	Address	505 East Huntland Drive Suite 250
City/State/Zip	Austin, TX 78752	City/State/Zip	Austin TX 78752
Phone	(512) 329-6080	Phone	(512) 329-6080
Fax	(512) 329-8750	Fax	(512) 329-8750
e-Mail Address	RVarnell@trccompanies.com	e-Mail Address	apinvoiceapproval@trcsolutions.com

A	8260_S (BTEX only 8260)
B	300_S (Chloride)
C	8015_GRO_S (GRO)
D	8015M_S_LL (DRO/ORO)
E	MOIST_SW3550 (Percent Moisture)
F	HOLD - SS
G	
H	
I	
J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	SB-4-0-2	12/8/20	0830	Soil	none	2	X	X	X	X	X	X					X
2	SB-4-5-7		0835				X	X	X	X	X						
3	SB-4-10-12		0845				X	X	X	X	X						X
4	SB-4-15-17		0855				X	X	X	X	X						X
5	SB-4-20-22		0900				X	X	X	X	X						
6	SB-4-25-27		0905				X	X	X	X	X						X
7	SB-4-30-32		0915				X	X	X	X	X						
8	SB-4-35-37		0920				X	X	X	X	X						X
9	SB-4-40-42		0925				X	X	X	X	X						
10	SB-4-45-47		0935				X	X	X	X	X						X

Sampler(s) Please Print & Sign: Jacob Stoffel

Shipment Method: FedEx

Required Turnaround Time: (Check Box) [X] STD 10 Wk Days [ ] 5 Wk Days [ ] 2 Wk Days [ ] 24 Hour [ ] Other

Results Due Date:

	Date	Time	
Relinquished by:	12/9/20	1400	Received by:
Relinquished by:	12/10/20	1255	Received by (Laboratory): J. Hinojos
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):

Notes: Artesia Station West

Cooler ID	Cooler Temp.

QC Package: (Check One Box Below)

- [X] Level II Std QC
- [ ] Level III Std QC/Raw Date
- [ ] Level IV SW846/CLP
- [ ] Other
- [ ] TRRP Checklist
- [ ] TRRP Level IV

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

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Fort Collins, CO +1 970 490 1511
Everett, WA +1 425 356 2600
Holland, MI +1 616 399 6070

Chain of Custody Form

Page 2 of 3

COC ID: 232640

HS20120540

TRC Corporation
Artesia Station West

ALS Project Manager:

Customer Information		Project Information	
Purchase Order		Project Name	Artesia Station West
Work Order		Project Number	376574 Phase 000001
Company Name	TRC Corporation	Bill To Company	TRC Corporation
Send Report To	Richard (RD) Varnell	Invoice Attn	TRC-AP
Address	505 East Huntland Drive Suite 250	Address	505 East Huntland Drive Suite 250
City/State/Zip	Austin, TX 78752	City/State/Zip	Austin TX 78752
Phone	(512) 329-6080	Phone	(512) 329-6080
Fax	(512) 329-8750	Fax	(512) 329-8750
e-Mail Address	RVarnell@trccompanies.com	e-Mail Address	apinvoiceapproval@trcsolutions.com

A	8260_S (BTEX only 8260)
B	300_S (Chloride)
C	8015_GRO_S (GRO)
D	8015M_S_LL (DRO/ORO)
E	MOIST_SW3550 (Percent Moisture)
F	
G	
H	
I	
J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	SB-4-50-52	12/8/20	0945	soil	none	2	X	X	X	X	X						
2	SB-4-55-57		1000				X	X	X	X	X						X
3	SB-4-60-62		1010				X	X	X	X	X						X
4	SB-4-65-67		1030				X	X	X	X	X						
5	SB-4-70-72		1045				X	X	X	X	X						X
6	SB-4-75-77		1100				X	X	X	X	X						
7	SB-4-80-82		1115				X	X	X	X	X						X
8	SB-4-85-87		1135				X	X	X	X	X						X
9	SB-4-90-92		1155				X	X	X	X	X						
10	SB-4-95-97		1210				X	X	X	X	X						

Sampler(s) Please Print & Sign: Joel Stoffel

Shipment Method: FedEx

Required Turnaround Time: (Check Box) [X] STD 10 Wk Days [ ] 5 Wk Days [ ] 2 Wk Days [ ] 24 Hour [ ] Other

Results Due Date:

Relinquished by:	Date:	Time:	Received by:
	12/9/20	1400	
Relinquished by:	Date:	Time:	Received by (Laboratory):
	12/10/20	12:55	J Magerm
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):

Notes: Artesia Station West

Cooler ID	Cooler Temp.
	uc
46808	1.3°C
46809	1.1°C

QC Package: (Check One Box Below)

- [X] Level II Std QC
- [ ] Level III Std QC/Raw Data
- [ ] Level IV SW846/CLP
- [ ] Other
- [ ] TRRP Checklist
- [ ] TRRP Level IV

14231 GFG

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.

Cincinnati, OH
+1 513 733 5336

Fort Collins, CO
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Everett, WA
+1 425 356 2600

Holland, MI
+1 616 399 6070

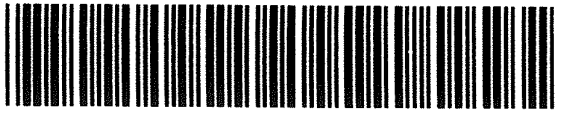
Chain of Custody Form

Page 3 of 3

COC ID: 232641

HS20120540 WV

TRC Corporation
Artesia Station West



ALS Project Manager:

Customer Information		Project Information	
Purchase Order		Project Name	Artesia Station West
Work Order		Project Number	376574 Phase 000001
Company Name	TRC Corporation	Bill To Company	TRC Corporation
Send Report To	Richard (RD) Varnell	Invoice Attn	TRC-AP
Address	505 East Huntland Drive Suite 250	Address	505 East Huntland Drive Suite 250
City/State/Zip	Austin, TX 78752	City/State/Zip	Austin TX 78752
Phone	(512) 329-6080	Phone	(512) 329-6080
Fax	(512) 329-8750	Fax	(512) 329-8750
e-Mail Address	RVarnell@trccompanies.com	e-Mail Address	apinvoiceapproval@trcsolutions.com

A	8260_S (BTEX only 8260)
B	300_S (Chloride)
C	8015_GRO_S (GRO)
D	8015M_S_LL (DRO/ORO)
E	MOIST_SW3550 (Percent Moisture)
F	
G	
H	
I	
J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	SB-4-100-102	12/8/20	1225	Soil	none	2	X	X	X	X	X						
2	Duplicate-3		—	Soil	none	2	X	X	X	X	X						
3	TB-120820-1		1300	water	HCl	2	X										
4	TB-120820-2		1300	water	HCl	2	X										X
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: Steve Stoffel

Shipment Method: FedEx

Required Turnaround Time: (Check Box) [X] STD 10 Wk Days [ ] 5 Wk Days [ ] 2 Wk Days [ ] 24 Hour [ ] Other

Results Due Date:

Relinquished by:	Date: 12/9/20	Time: 1400	Received by:
Relinquished by:	Date: 12/10/20	Time: 12:55	Received by (Laboratory):
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):

Notes: Artesia Station West

Cooler ID	Cooler Temp.

QC Package: (Check One Box Below)

- [X] Level II Std QC
- [ ] Level III Std QC/Raw Data
- [ ] Level IV SW846/CLP
- [ ] Other
- [ ] TRRP Checklist
- [ ] TRRP Level IV

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

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2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be

Appendix D:
References

REFERENCES

BLM, 2020. Karst potential data for the Site and surrounding area provided by the New Mexico Bureau of Land Management (BLM). Data accessible from https://www.nm.blm.gov/shapeFiles/cfo/carlsbad_spatial_data.html.

DBSA, 1995. *Comprehensive Review and Model of the Hydrogeology of the Roswell Basin*, Daniel B. Stephens & Associates, Inc., prepared for the New Mexico Office of the State Engineer, Santa Fe, New Mexico, December 21, 1995.

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FEMA 2020. Federal Emergency Management Agency Flood Insurance Rate Map (FIRM) #35015C0600D, effective 6/4/2010, available from https://msc.fema.gov/portal/home#.

Google and their Data Partners, 2020. Aerial photography of the Site accessible through the Google Earth Pro application (https://www.google.com/earth/).

HEP, 2020. Completed C-141 Notification Form, prepared by HEP, dated January 29, 2020.

New Mexico Bureau of Geology and Mineral Resources, 2003. *Geologic Map of New Mexico*, New Mexico Bureau of Geology and Mineral Resources (published in cooperation with the USGS), dated 2003.

NMOCD, 2020. Email correspondence from NMOCD to HEP, dated February 6, 2020.

NMOSE, 2020. Data available from the New Mexico Office of the State Engineer Point of Diversion GIS website accessible at https://gis.ose.state.nm.us/gisapps/ose_pod_locations/.

TRC, 2020. Site Characterization Report, Former Tank 970 / Artesia Station West, NMOCD Incident No NCD2003752717, dated April 2020.

USFWS, 2020. Wetlands information available from the United States Fish and Wildlife Service and accessible at https://www.fws.gov/wetlands/data/mapper.html.

USGS, 1952 (reprinted 1985). *Ground-Water Report 3, Geology and Ground-Water Resources of Eddy County, New Mexico*, by G. E. Hendrickson and R. S. Jones, United States Geological Survey, dated 1952, reprinted 1985.

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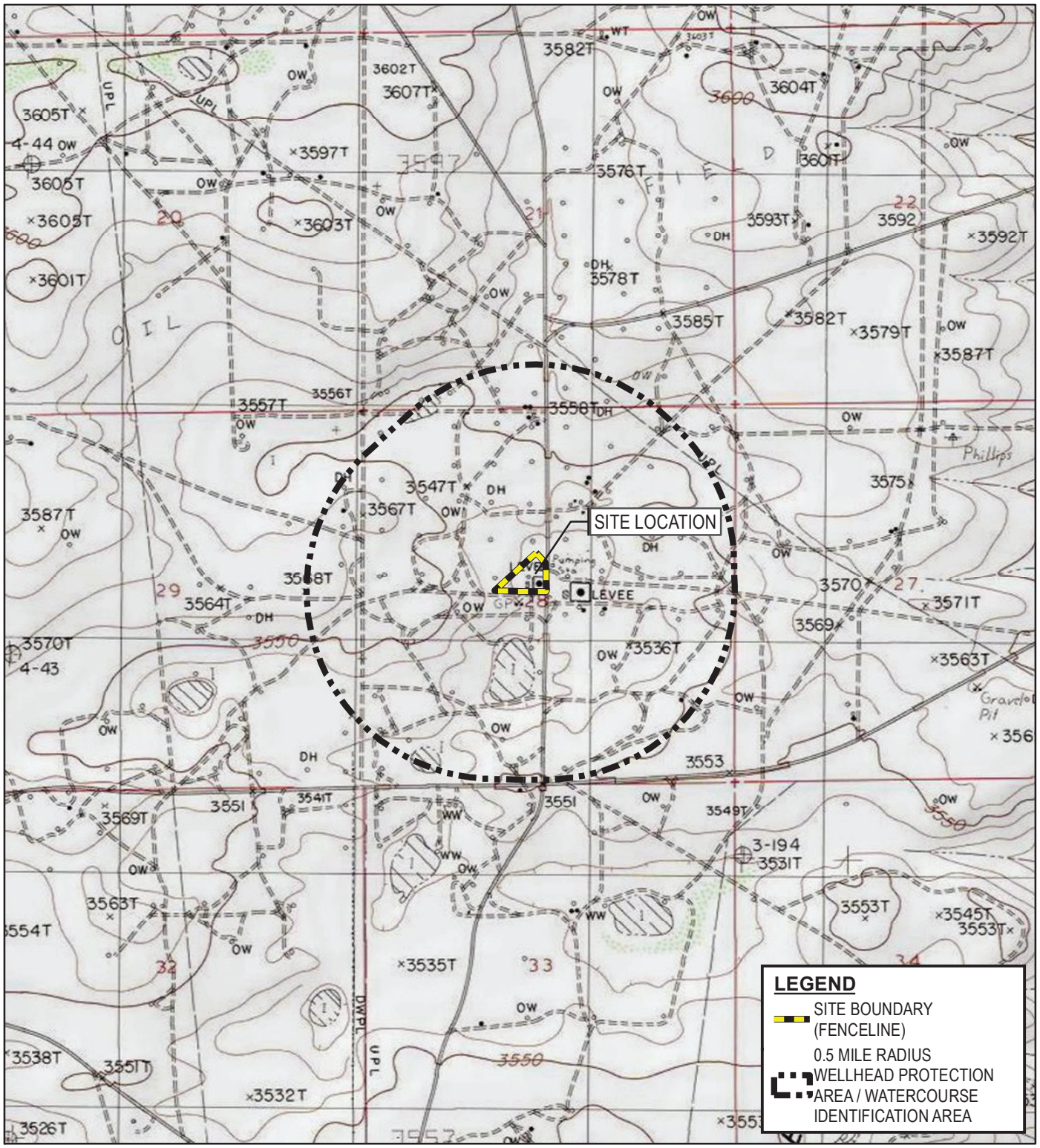
FIGURES



BASE MAP FROM USGS 7.5 MINUTE TOPOGRAPHIC QUADRANGLE SERIES.

N

1 " = 2,000 '
1:24,000

0 2,000 4,000
FEET

TRC
505 East Huntland Drive
Suite #250
Austin, TX 78752
Phone: 512.329.6080
TRC - GIS

PROJECT:
HOLLY ENERGY PARTNERS - OPERATING, L.P.
ARTESIA STATION WEST, EDDY COUNTY, NM
FORMER TANK 970

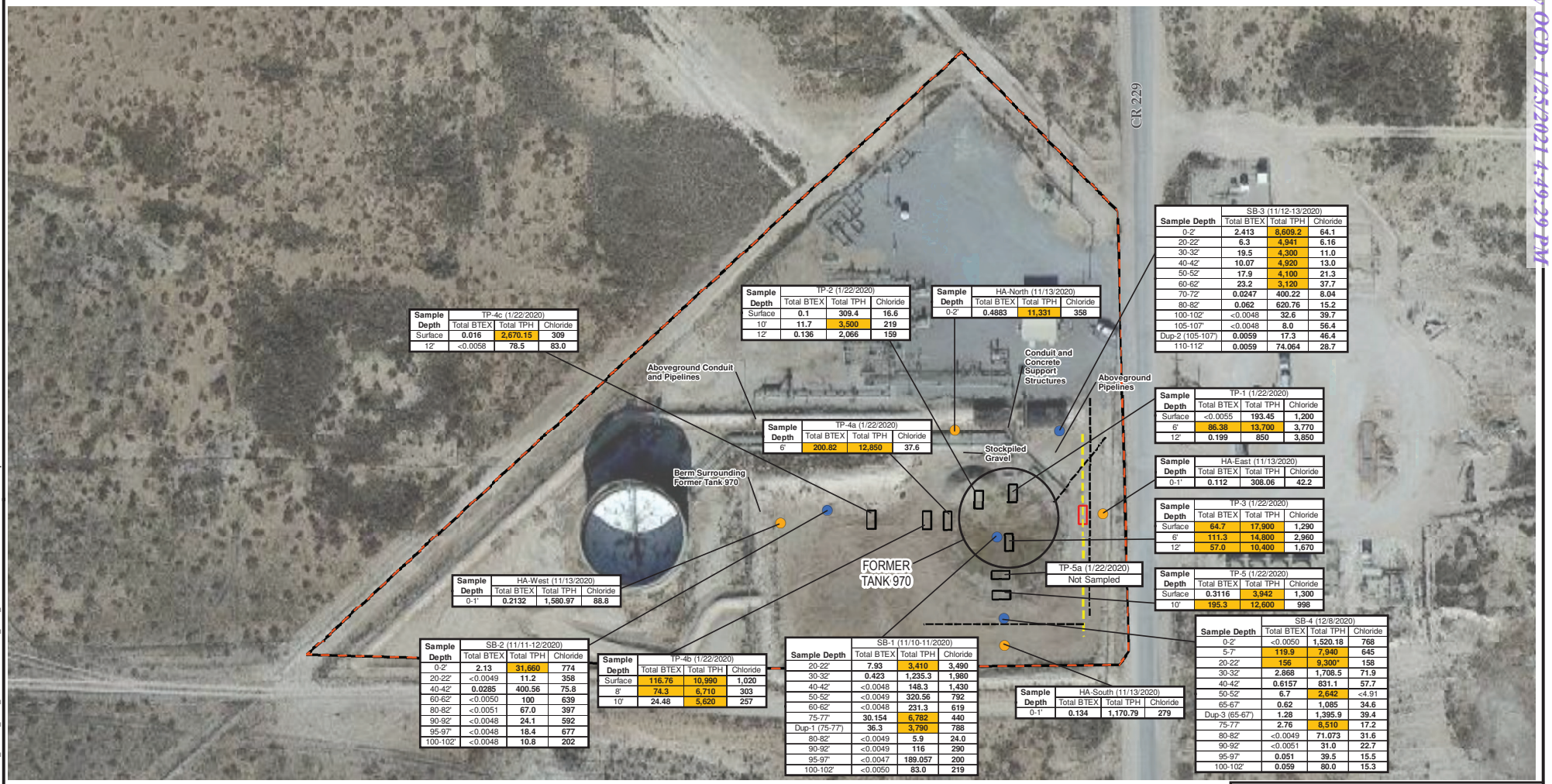
TITLE:
SITE LOCATION MAP

DRAWN BY:	S. RAY
CHECKED BY:	RDV
APPROVED BY:	RDV
DATE:	JANUARY 2021
PROJ. NO.:	390691
FILE:	Artesia_West_1.mxd

FIGURE 1

S:\1-PROJECTS\HOLLY_ENERGY_PARTNERS\390691_Artestia_West_Station\mxd\Artesia_West_1.mxd -- Saved By: SRAY on 1/4/2021, 15:51:58 PM

Coordinate System: NAD 1983 2011 StatePlane New Mexico East FIPS 3001 FUS (Foot US)
Map Rotation: 0
TRC - GIS
Plot Date: 1/6/2021, 14:34:59 PM by SRAY -- LAYOUT: ANSI B (11"x17")
Path: S:\1-PROJECTS\HOLLY_ENERGY_PARTNERS\390691_Artesia_West_Station\mxd\Artesia_West_2A.mxd



Sample Depth	TP-4c (1/22/2020)		
	Total BTEX	Total TPH	Chloride
Surface	0.016	2,670.15	309
12'	<0.0058	78.5	83.0

Sample Depth	TP-2 (1/22/2020)		
	Total BTEX	Total TPH	Chloride
Surface	0.1	309.4	16.6
10'	11.7	3,500	219
12'	0.136	2,066	159

Sample Depth	HA-North (11/13/2020)		
	Total BTEX	Total TPH	Chloride
0-2'	0.4883	11,331	358

Sample Depth	SB-3 (11/12-13/2020)		
	Total BTEX	Total TPH	Chloride
0-2'	2.413	8,609.2	64.1
20-22'	6.3	4,941	6.16
30-32'	19.5	4,300	11.0
40-42'	10.07	4,920	13.0
50-52'	17.9	4,100	21.3
60-62'	23.2	3,120	37.7
70-72'	0.0247	400.22	8.04
80-82'	0.062	620.76	15.2
100-102'	<0.0048	32.6	39.7
105-107'	<0.0048	8.0	56.4
Dup-2 (105-107')	0.0059	17.3	46.4
110-112'	0.0059	74.064	28.7

Sample Depth	TP-1 (1/22/2020)		
	Total BTEX	Total TPH	Chloride
Surface	<0.0055	193.45	1,200
6'	86.38	13,700	3,770
12'	0.199	850	3,850

Sample Depth	TP-4a (1/22/2020)		
	Total BTEX	Total TPH	Chloride
6'	200.82	12,850	37.6

Sample Depth	HA-East (11/13/2020)		
	Total BTEX	Total TPH	Chloride
0-1'	0.112	308.06	42.2

Sample Depth	TP-3 (1/22/2020)		
	Total BTEX	Total TPH	Chloride
Surface	64.7	17,900	1,290
6'	111.3	14,800	2,960
12'	57.0	10,400	1,670

Sample Depth	HA-West (11/13/2020)		
	Total BTEX	Total TPH	Chloride
0-1'	0.2132	1,580.97	88.8

Sample Depth	TP-5 (1/22/2020)		
	Total BTEX	Total TPH	Chloride
Surface	0.3116	3,942	1,300
10'	195.3	12,600	998

Sample Depth	SB-2 (11/11-12/2020)		
	Total BTEX	Total TPH	Chloride
0-2'	2.13	31,660	774
20-22'	<0.0049	11.2	358
40-42'	0.0285	400.56	75.8
60-62'	<0.0050	100	639
80-82'	<0.0051	67.0	397
90-92'	<0.0048	24.1	592
95-97'	<0.0048	18.4	677
100-102'	<0.0048	10.8	202

Sample Depth	TP-4b (1/22/2020)		
	Total BTEX	Total TPH	Chloride
Surface	116.76	10,990	1,020
8'	74.3	6,710	303
10'	24.48	5,620	257

Sample Depth	SB-1 (11/10-11/2020)		
	Total BTEX	Total TPH	Chloride
20-22'	7.93	3,410	3,490
30-32'	0.423	1,235.3	1,980
40-42'	<0.0048	148.3	1,430
50-52'	<0.0049	320.56	792
60-62'	<0.0048	231.3	619
75-77'	30.154	6,782	440
Dup-1 (75-77')	36.3	3,790	788
80-82'	<0.0049	5.9	24.0
90-92'	<0.0049	116	290
95-97'	<0.0047	189.057	200
100-102'	<0.0050	83.0	219

Sample Depth	HA-South (11/13/2020)		
	Total BTEX	Total TPH	Chloride
0-1'	0.134	1,170.79	279

Sample Depth	SB-4 (12/8/2020)		
	Total BTEX	Total TPH	Chloride
0-2'	<0.0050	1,520.18	768
5-7'	119.9	7,940	645
20-22'	156	9,300*	158
30-32'	2.868	1,708.5	71.9
40-42'	0.6157	831.1	57.7
50-52'	6.7	2,642	<4.91
65-67'	0.62	1,085	34.6
Dup-3 (65-67')	1.28	1,395.9	39.4
75-77'	2.76	8,510	17.2
80-82'	<0.0049	71.073	31.6
90-92'	<0.0051	31.0	22.7
95-97'	0.051	39.5	15.5
100-102'	0.059	80.0	15.3

LEGEND

- FENCELINE
- UNMARKED, OUT OF SERVICE UNDERGROUND UTILITY
- FLAGGED UNDERGROUND LINE
- TEST PIT
- TEST PIT THAT WAS STOPPED DUE TO UNMARKED UNDERGROUND UTILITY
- AIR ROTARY BORING LOCATION
- HAND AUGER BORING LOCATION

SOURCE: BASEMAP FROM GOOGLE EARTH PRO AND THEIR DATA PARTNERS (12/21/2019).

NOTES:

1. Sample collection date provided next to sample location.
2. Sample Depth provided in feet (').
3. Concentrations provided in mg/kg.
4. BTEX = Benzene, Toluene, Ethylbenzene, and Total Xylenes by EPA Method 8260.
   Total BTEX = Sum of Benzene, Toluene, Ethylbenzene, and Total Xylenes
5. TPH = Total Petroleum Hydrocarbons by EPA Method 8015.
   Total TPH = Sum of Gasoline Range, Diesel Range, and Motor Oil Range Organics.
6. Chloride by EPA Method 300.
7. Orange highlighted values exceed Closure Criteria for sites with groundwater greater than 100 feet deep.
8. Samples Names "Duplicate-1", "Duplicate-2", and "Duplicate-3" shortened to "Dup-1", "Dup-2", and "Dup-3" for this figure.
9. * = The initial reported concentration for TPH GRO in this sample was 11,000 mg/kg. Because this value appeared unusual for the Site it was reanalyzed out of hold. The reanalyzed GRO concentration was 1,800 mg/kg. The 1,800 mg/kg measurement was included in this total because the 11,000 mg/kg value appears to be anomalous.

N

0 85 170 Feet

1 " = 85 '

1:1,020

PROJECT:
HOLLY ENERGY PARTNERS - OPERATING, L.P.
ARTESIA STATION WEST, EDDY COUNTY, NM
FORMER TANK 970

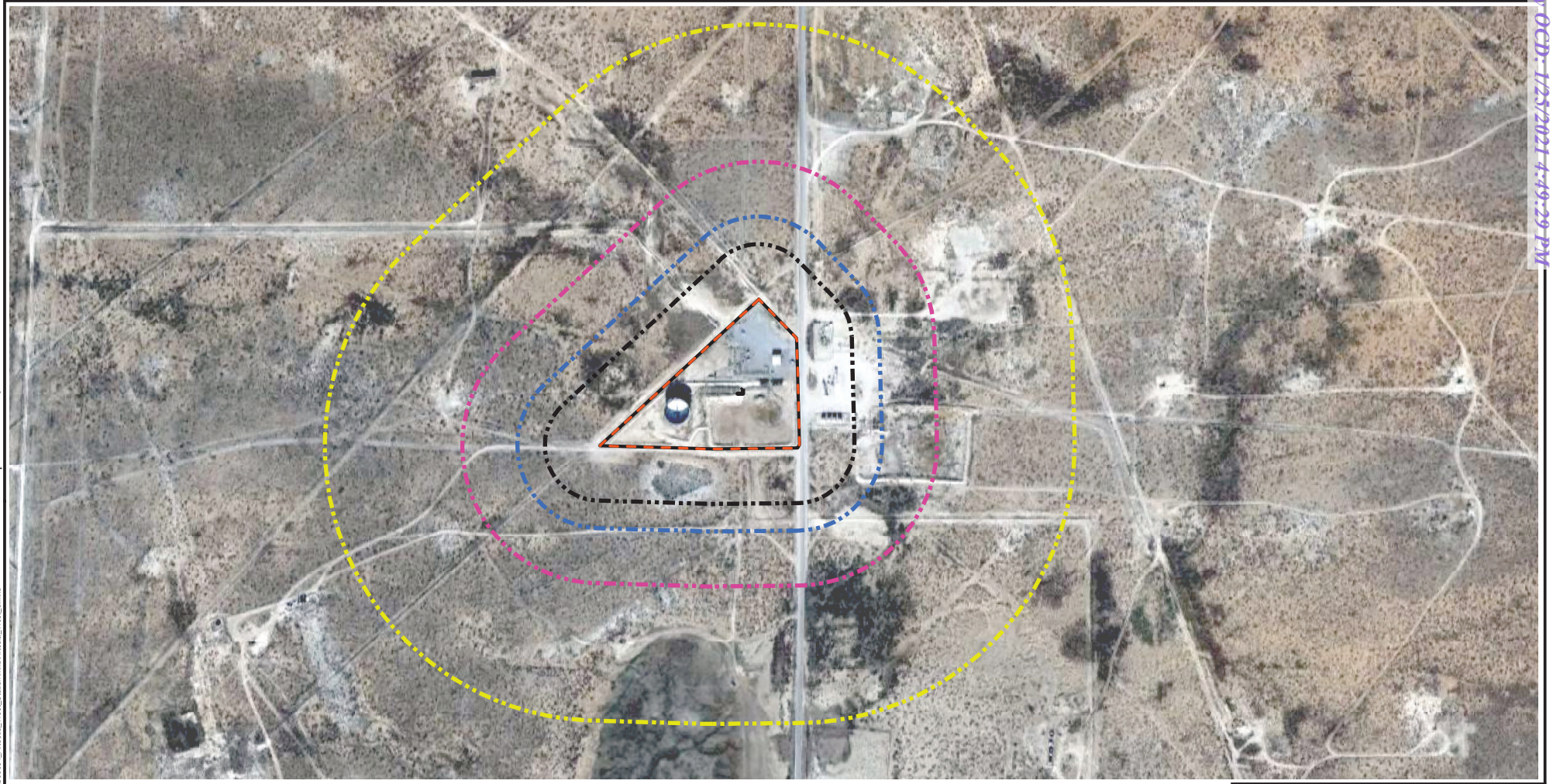
TITLE:
SITE AND SAMPLE LOCATION PLAN

DRAWN BY:	S. RAY	PROJ NO.:	390691
CHECKED BY:	RDV		
APPROVED BY:	RDV		
DATE:	JANUARY 2021		

FIGURE 2

TRC
505 East Huntland Drive
Suite #250
Austin, TX 78752
Phone: 512.329.6080

FILE NO.: Artesia_West_2A.mxd



LEGEND

- FENCELINE
- 200' RADIUS (SEE CLOSURE CRITERIA MODIFIER 1)
- 300' RADIUS (SEE CLOSURE CRITERIA MODIFIER 2)
- 500' RADIUS (SEE CLOSURE CRITERIA MODIFIER 3)
- 1000' RADIUS (SEE CLOSURE CRITERIA MODIFIER 4)

SOURCE: BASEMAP FROM GOOGLE EARTH PRO AND THEIR DATA PARTNERS (12/21/2019).

CLOSURE CRITERIA MODIFIERS

1. WITHIN 200 FEET OF ANY LAKEBED, SINKHOLE OR PLAYA LAKE (MEASURED FROM THE ORDINARY HIGH-WATER MARK).
2. WITHIN 300 FEET OF ANY CONTINUOUSLY FLOWING WATERCOURSE OR ANY OTHER SIGNIFICANT WATERCOURSE; OR FROM AN OCCUPIED PERMANENT RESIDENCE, SCHOOL, HOSPITAL, OR CHURCH.
3. WITHIN 500 FEET OF A SPRING OR A PRIVATE, DOMESTIC FRESH WATER WELL USED BY LESS THAN FIVE HOUSEHOLDS FOR DOMESTIC OR STOCK WATERING PURPOSES.
4. WITHIN 1,000 FEET OF ANY FRESH WATER WELL OR SPRING.

N

0 350 700 Feet

1 " = 350 '
1:4,200

PROJECT:
HOLLY ENERGY PARTNERS - OPERATING, L.P.
ARTESIA STATION WEST, EDDY COUNTY, NM
FORMER TANK 970

TITLE:
CLOSURE CRITERIA MODIFIERS

DRAWN BY:	S. RAY	PROJ NO.:	390691
CHECKED BY:	RDV		
APPROVED BY:	RDV		
DATE:	JANUARY 2021		

FIGURE 3

TRC
505 East Huntland Drive
Suite #250
Austin, TX 78752
Phone: 512.329.6080

FILE NO.: Artesia_West_3

Coordinate System: NAD 1983 2011 StatePlane New Mexico East FIPS 3001 Ft US (Foot US)
Map Rotation: 0
TRC - GIS

Plot Date: 1/4/2021, 15:54:22 PM by SRAY -- LAYOUT: ANSI B (11"x17")
Path: S:\1-PROJECTS\HOLLY_ENERGY_PARTNERS\390691_Artesia_West_Station\mxd\Artesia_West_3.mxd

LEGEND

- SITE BOUNDARY (FENCELINE)
- FRESHWATER EMERGENT WETLAND
- FRESHWATER POND
- 300' RADIUS (SEE NOTE 4)

SOURCE: WETLANDS - FISH AND WILDLIFE SERVICE NATIONAL WETLANDS INVENTORY.
BASEMAP FROM GOOGLE EARTH PRO AND THEIR DATA PARTNERS (12/21/2019).

NOTES:
1. PUSA = PALUSTRINE (P), UNCONSOLIDATED SHORE (US), TEMPORARILY FLOODED (A)
2. PUSJ = PALUSTRINE (P), UNCONSOLIDATED SHORE (US), INTERMITTENTLY FLOODED (J)
3. PEM1A = PALUSTRINE (P), EMERGENT (EM), PERSISTENT (1), TEMPORARILY FLOODED (A)
4. WITHIN 300 FEET OF A WETLAND

TEMPORARILY FLOODED = FLOODED FOR BRIEF PERIODS DURING GROWING SEASON, BUT WATER TABLE OTHERWISE WELL BELOW SURFACE.
INTERMITTENLY FLOODED = SURFACE USUALLY EXPOSED WITH SURFACE WATER PRESENT FOR VARIABLE PERIODS WITHOUT DETECTABLE SEASONAL PATTERNS.

N

0 600 1,200 Feet
1 " = 600 '
1:7,200

PROJECT:
HOLLY ENERGY PARTNERS - OPERATING, L.P.
ARTESIA STATION WEST, EDDY COUNTY, NM
FORMER TANK 970

TITLE:
WETLANDS MAP

DRAWN BY:	S. RAY	PROJ NO.:	390691
CHECKED BY:	RDV		
APPROVED BY:	RDV		
DATE:	JANUARY 2021		

FIGURE 4

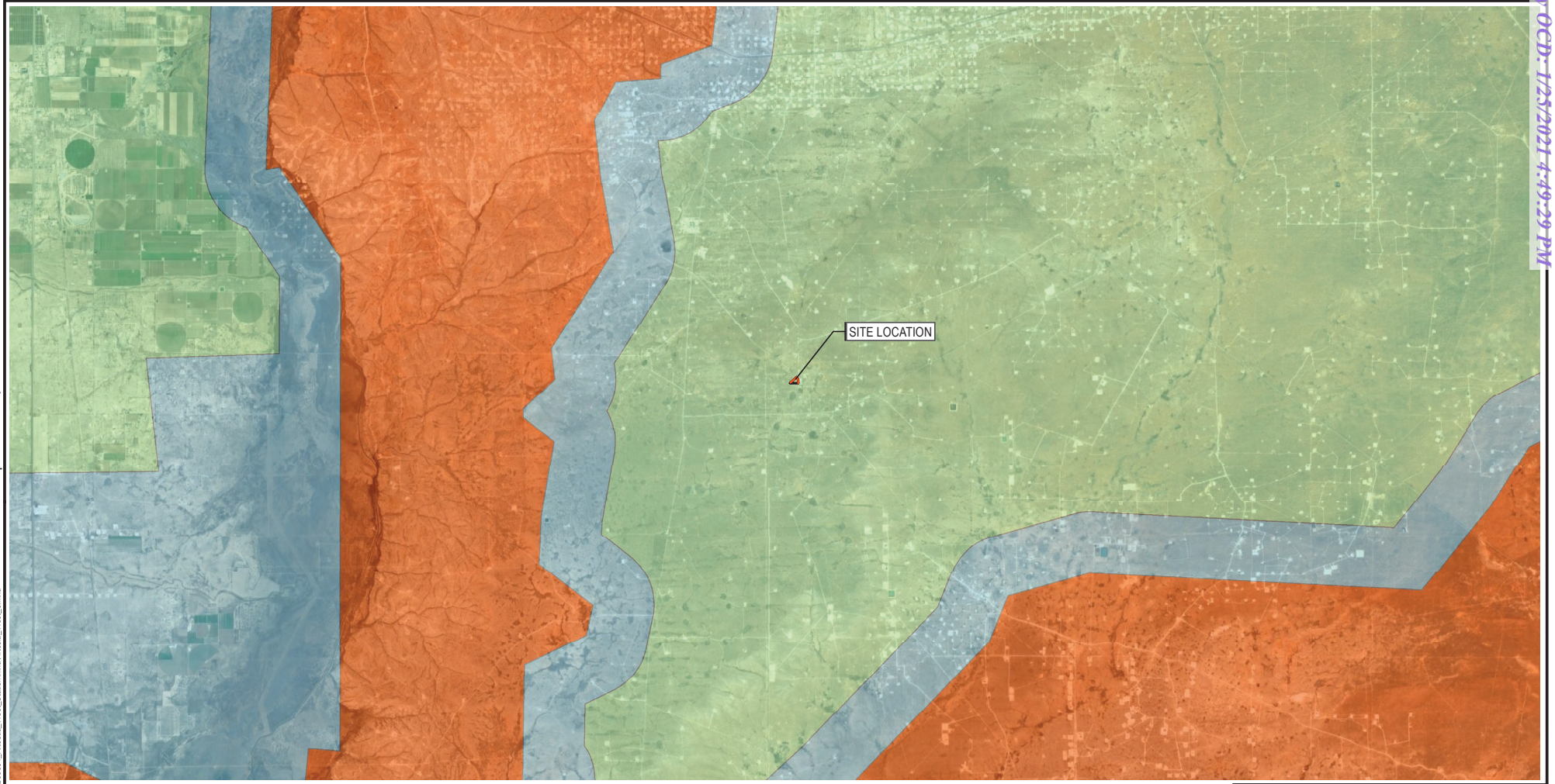
TRC
505 East Huntland Drive
Suite #250
Austin, TX 78752
Phone: 512.329.6080

FILE NO.: Artesia_West_4.

Plot Date: 1/4/2021, 15:57:12 PM by SRAY -- LAYOUT: ANSI B (11"x17")
Path: S:\1-PROJECTS\HOLLY_ENERGY_PARTNERS\390691_Artesia_West_Station\mxd\Artesia_West_4.mxd

Coordinate System: NAD 1983 2011 StatePlane New Mexico East FIPS 3001 Ft US (Foot US)
Map Rotation: 0

TRC - GIS



LEGEND

- SITE BOUNDARY (FENCELINE)
- LOW KARST POTENTIAL
- MEDIUM KARST POTENTIAL
- HIGH KARST POTENTIAL

SOURCE: KARST DATA FROM NEW MEXICO BUREAU OF LAND MANAGEMENT.
BASEMAP FROM GOOGLE EARTH PRO AND THEIR DATA PARTNERS (12/21/2019).

0 1 2 Miles

1 " = 2 MILES
1:99,960

PROJECT:
HOLLY ENERGY PARTNERS - OPERATING, L.P.
ARTESIA STATION WEST, EDDY COUNTY, NM
FORMER TANK 970

TITLE:
KARST POTENTIAL MAP

DRAWN BY:	S. RAY	PROJ NO.:	390691
CHECKED BY:	RDV		
APPROVED BY:	RDV		
DATE:	JANUARY 2021		

FIGURE 5

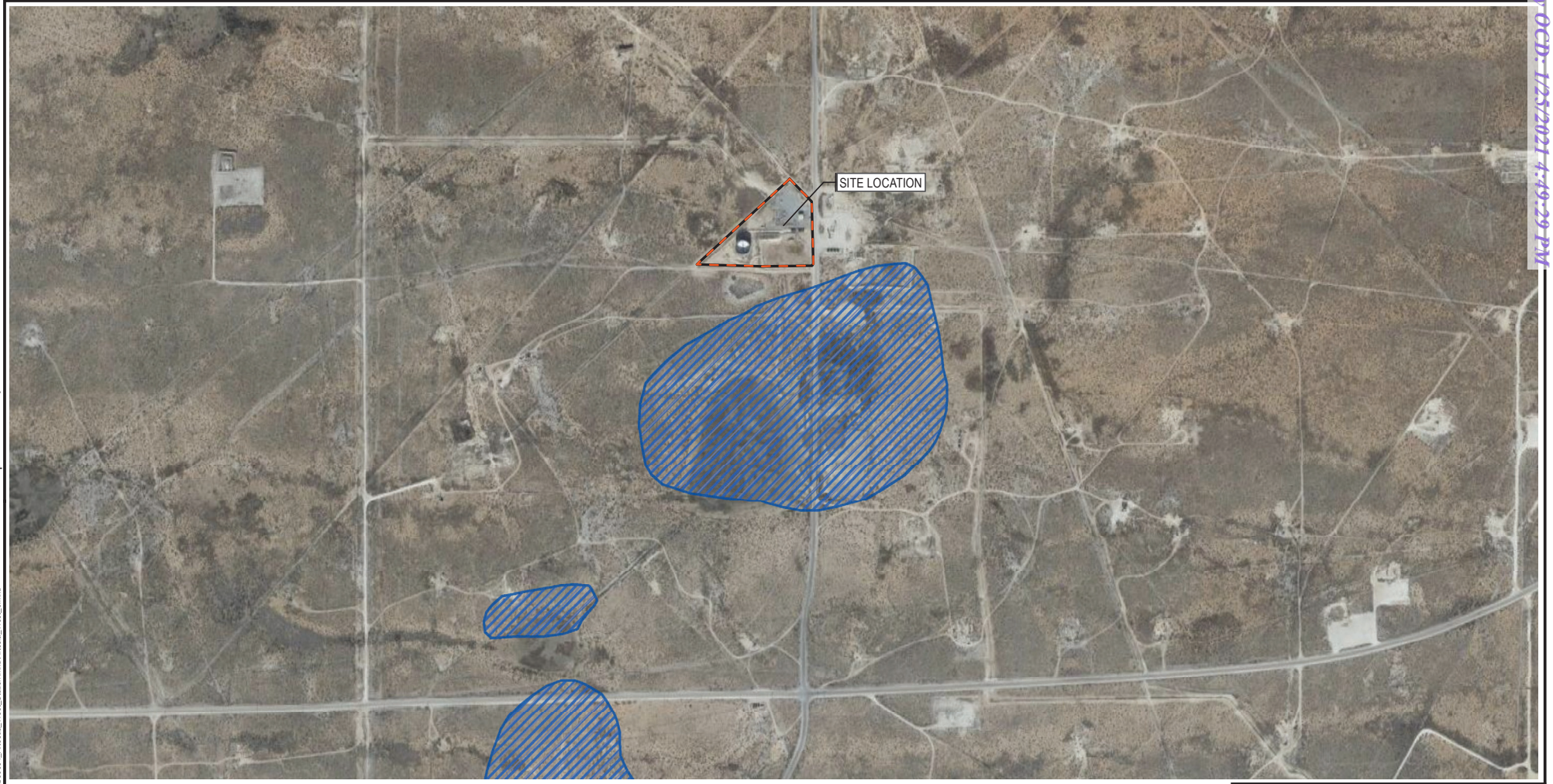
TRC
505 East Huntland Drive
Suite #250
Austin, TX 78752
Phone: 512.329.6080

FILE NO.: Artesia_West_5

Coordinate System: NAD 1983 2011 StatePlane New Mexico East FIPS 3001 Ft US (Foot US)
Map Rotation: 0

Plot Date: 1/4/2021, 16:00:17 PM by SRAY -- LAYOUT: ANSI B (11"x17")
Path: S:\1-PROJECTS\HOLLY_ENERGY_PARTNERS\390691_Artesia_West_Station\mxd\Artesia_West_5.mxd

TRC - GIS



LEGEND

- SITE BOUNDARY (FENCELINE)
- AREA INSIDE 100 YEAR FLOODPLAIN

SOURCE: FLOODPLAIN - FEMA FLOOD MAP SERVICE CENTER (MSC).
BASEMAP FROM GOOGLE AND GOOGLE EARTH PRO AND THEIR DATA PARTNERS (12/21/2019).

0 600 1,200 Feet

1 " = 600 '
1:7,200

PROJECT:
HOLLY ENERGY PARTNERS - OPERATING, L.P.
ARTESIA STATION WEST, EDDY COUNTY, NM
FORMER TANK 970

TITLE:
FLOODPLAIN MAP

DRAWN BY:	S. RAY	PROJ NO.:	390691
CHECKED BY:	RDV		
APPROVED BY:	RDV		
DATE:	JANUARY 2021		

FIGURE 6

TRC
505 East Huntland Drive
Suite #250
Austin, TX 78752
Phone: 512.329.6080

FILE NO.: Artesia_West_6.

Plot Date: 1/4/2021, 16:04:56 PM by SRAY -- LAYOUT: ANSI B (11"x17")
Path: S:\1-PROJECTS\HOLLY_ENERGY_PARTNERS\390691_Artesia_West_Station\mxd\Artesia_West_6.mxd

Coordinate System: NAD 1983 2011 StatePlane New Mexico East FIPS 3001 Ft US (Foot US)
Map Rotation: 0

TRC - GIS

LEGEND

- FENCELINE
- UNMARKED, OUT OF SERVICE UNDERGROUND UTILITY
- FLAGGED UNDERGROUND LINE
- TEST PIT
- TEST PIT THAT WAS STOPPED DUE TO UNMARKED UNDERGROUND UTILITY
- AIR ROTARY BORING LOCATION
- HAND AUGER BORING LOCATION
- PROPOSED AIR ROTARY BORING LOCATION

SOURCE: BASEMAP FROM GOOGLE EARTH PRO AND THEIR DATA PARTNERS (12/21/2019).

0 85 170 Feet

1 " = 85 '
1:1,020

PROJECT:
HOLLY ENERGY PARTNERS - OPERATING, L.P.
ARTESIA STATION WEST, EDDY COUNTY, NM
FORMER TANK 970

TITLE:
PROPOSED SAMPLE LOCATIONS

DRAWN BY:	S. RAY	PROJ NO.:	390691
CHECKED BY:	RDV		
APPROVED BY:	RDV		
DATE:	JANUARY 2021		

FIGURE 7

TRC
505 East Huntland Drive
Suite #250
Austin, TX 78752
Phone: 512.329.6080

FILE NO.: Artesia_West_7.

Plot Date: 1/4/2021, 11:23:48 AM by SRAY -- LAYOUT: ANSI B (11"x17")
Path: S:\1-PROJECTS\HOLLY_ENERGY_PARTNERS\390691_Artesia_West_Station\mxd\Artesia_West_7.mxd

Coordinate System: NAD 1983 2011 StatePlane New Mexico East FIPS 3001 Ft US (Feet US)
Map Rotation: 0

TRC - GIS

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 15561

CONDITIONS OF APPROVAL

Operator:	OGRID:	Action Number:	Action Type:
HOLLY ENERGY PARTNERS 1602 W. Main St. Artesia, NM88210	282505	15561	C-141

OCD Reviewer	Condition
ceads	The site characterization and proposed work plan are approved.