



October 2, 2020

State of New Mexico Oil Conservation Division
District II - Artesia
811 S. First St.,
Artesia, NM 88210

RE: Sendero Carlsbad Midstream, LLC Spill Closure Report for Carlsbad Plant, Eddy County, New Mexico
Incident # NRM2020636542.

To Whom it May Concern,

Resolute Compliance, LLC (Resolute) is writing you on behalf of Sendero Carlsbad Midstream, LLC (Sendero) regarding a spill that occurred at their Carlsbad Plant in Eddy County, New Mexico. Details on the release notification, site assessment/characterization, remediation plan, and closure can be found in the corresponding sections below:

Release Notification

Responsible Party

The responsible party for the spill that occurred at the Carlsbad Plant is Sendero. The oil and gas release ID number (OGRID) is 327139. Contact information for the responsible party is below:

Contact Name – Clint Cone

Contact Telephone – (575) 361-3526

Contact E-mail – ccone@senderomidstream.com

Contact Mailing Address – 1025 Bounds Rd., Loving, NM 88256

Location of Release Source

The location of the release is in Section 31, Township 23 South, Range 28 East, in Eddy County, NM. The location of the release is located at these approximate GPS coordinates: 32.26038, -104.12343. The spill occurred at the Carlsbad Plant, a Cryogenic Natural Gas Plant, on July 3, 2020. The surface owner is Sendero. A topographic and aerial map of the Facility is included in Attachment A.

RESOLUTE
COMPLIANCE, LLC

115 FM 2453, Suite A
Royse City, TX 75189
(972) 842-4301

www.ResoluteCompliance.com



Nature and Volume of Release

The spill at the Carlsbad Plant consisted of an estimated volume of 33 barrels (bbls) of produced water. Approximately 5 bbls were recovered. The concentration of dissolved chloride in the produced water was not greater than 10,000 mg/l.

A leak was discovered by odor at approximately 5:30am on July 3, 2020 during the plant shift change. It was determined that the final load of the previous shift had completed a loading cycle without fully closing the valve allowing produced water to release to the ground. The first discovered evidence of the leak was in the liquid level indicator data, which indicated that the release did not start until approximately 2:30 am on July 3, 2020. Based on operational data, approximately 33 bbls of produced water were lost to the ground. Once the issue was identified the valve was closed completely ending the release.

According to 19.15.29.7(A) NMAC, this release was defined as a “major release” because the volume of the release was approximately 33 bbls which exceeds the minimum volume of 25 bbls. Immediate notice was given to the New Mexico Oil Conservation Division (NMOCD) by Clint Cone, the Operations Manager for the Carlsbad Plant, via e-mail on Friday, July 3, 2020 at 2:56 P.M. The e-mail was submitted to Mike Bratcher and Jim Griswold of the NMOCD.

Initial Response

After the spill was initially discovered, immediate response actions were taken. These actions include the following:

- The source of the release was stopped;
- The impacted area was secured to protect human health and the environment;
- The released materials were contained via the use of berms or dikes, absorbent pads, or other containment devices; and,
- All free liquids and recoverable materials were removed and managed appropriately.

Site Assessment/Characterization

The impacted area is completely contained within the plant location. Photos of the initial release can be found in Attachment B. The impacted area is shown on the Site Map aerial image in Attachment A. Surface features in proximity to the impacted area are shown on the Surface Features and Topographic Map in Attachment A. Finally, the delineation points and soil sample areas and ID's are shown on the Sampling Diagram in Attachment A.

Land based response actions were implemented early on July 3. These activities included scraping up the affected soil/caliche and placing it on tarping in a secure location at the site. The remaining affected area was excavated down to where the soil was visibly free of hydrocarbons (approximately 4 inches). Affected soil was stored on a tarp onsite and periodically mechanically agitated. Once the affected area



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was completely secured and there were no longer any free liquids in the affected area, sampling field work was initiated.

The initial sampling field work consisted of a grid sampling plan. A grid was established consisting of 10 foot by 20 foot intervals for 200 square foot areas per each grid interval. Five-point composite soil samples were collected per each of the grid intervals in the impacted area at a depth of 4 inches. The grid sampling plan consisted of 30 separate soil samples (27 composite samples and 3 stockpile samples). Each sample would be analyzed for TPH, BTEX, and chlorides. A depiction of the initial sampling grid is attached in Attachment A.

On July 23, 2020, the initial soil sampling was completed. The soil samples were taken to the lab on July 23, 2020. The lab utilized for the analyzing of the soil samples was the Xenco Lab located in Midland, Texas. The Lab Project Manager was Jessica Kramer.

The initial soil sampling analytical data concluded that composite sample 1 (CS1) and stockpile sample 3 (STP3) (corresponds with sample ID's in Analytical Results Summary, Analytical Reports, and Sampling Diagram) exceeded the TPH closure criteria limits. The Analytical Results Summary and Analytical Reports (including Chain of Custody) can be found in Attachment D. The Sampling Diagram can be found in Attachment A.

According to USGS groundwater data for New Mexico, depth to groundwater at the approximate spill location is 57 feet. The spill did not impact groundwater or surface water. The nearest significant watercourse is the Black River Supply Ditch which is a wetland that is approximately 4,512 ft. from the spill release boundary. The nearest permanent residence, school, hospital, institution, and/or church is no closer than approximately 6,663 ft. There is a permanent residence at approximately 6,663 ft. There are no water wells, subsurface mines, or unstable areas within close proximity to the Plant. The Plant is not within a 100-year floodplain. Therefore, the lateral extents of the release:

- Are not within 30 ft. of a continuously flowing watercourse or any other significant watercourse;
- Are not within 200 ft. of any lakebed, sinkhole, or playa lake;
- Are not within 300 ft. of an occupied permanent residence, school, hospital, institution, or church;
- Are not within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes;
- Are not within 1,000 ft. of any other fresh water well or spring;
- Are not within incorporated municipal boundaries or within a defined municipal fresh water well field;
- Are not within 300 ft. of a wetland;
- Are not overlying a subsurface mine;
- Are not overlying an unstable area; and,
- Are not within a 100-year floodplain.



After review of the impacted area, the release did not impact areas that were not on an exploration, development, production, or storage site.

Remediation Plan

After initial soil sampling analytical results concluded CS1 and STP3 exceeded the TPH closure criteria limits, additional remediation was required to sufficiently cleanup the impacted area. Approximately 6 additional inches were excavated at the location of CS1. The excavated soils were stored on a tarp onsite and additional mechanical agitation was conducted. Photos of this final remediation can be found in Attachment B.

CS1 and STP3 were re-sampled on August 14, 2020. The samples were again analyzed for TPH, BTEX, and chlorides and taken to the Xenco Lab in Midland, Texas. The analytical data concluded that CS1 and STP3 were below the closure criteria limits.

The Analytical Results Summary and Analytical Reports (including Chain of Custody) can be found in Attachment C. The Sampling Diagram depicting delineation points can be found in Attachment A.

Closure

The required closure information is included herein and attached. A list of closure information included is bulleted below:

- A scaled Site Map included in Attachment A;
- A Sampling Diagram included in Attachment A;
- Relevant field data included in Attachment A and C;
- Photographs of initial spill extent and excavation prior to backfilling included in Attachment B;
- Laboratory data including chain of custody documents of final sampling included in Attachment C; and,
- A narrative of the remedial activities included with the text herein.



Should you require any further information regarding the initial incident, or the follow-up actions taken by Sendero, please don't hesitate to reach out directly to me by phone at 972.842.4304 or via email at jva@resolutecompliance.com

Sincerely,

A handwritten signature in black ink, appearing to read "James VanAssche". The signature is fluid and cursive, written on a light gray, textured background.

James VanAssche, P.E., C.H.M.M.

Vice President of Environmental Compliance

CC: Clint Cone - Sendero

Attachments:

Attachment A

Surface Features and Topographic Map
Site Map
Sampling Diagram

Attachment B

Initial Release Photos
Final Remediation Photos

Attachment C

Analytical Results Summary
Analytical Reports

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural
Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NRM2020636542
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Sendero Carlsbad Midstream, LLC	OGRID 327139
Contact Name Clint Cone	Contact Telephone (575) 361-3526
Contact email ccone@senderomidstream.com	Incident # (assigned by OCD)
Contact mailing address 1025 Bounds Road, Loving, New Mexico 88256	

Location of Release Source

Latitude 32.26038 Longitude -104.12343
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Carlsbad Plant	Site Type Cryogenic Natural Gas Plant
Date Release Discovered 7/3/2020	API# (if applicable)

Unit Letter	Section	Township	Range	County
	31	23 South	28 East	Eddy

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name: Sendero Carlsbad Midstream, LLC)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) ~33	Volume Recovered (bbls) ~5
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☒ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

NRM2020636542

Incident ID	NRM2020636542
District RP	
Facility ID	
Application ID	

Cause of Release

A leak was discovered by odor at approximately 5:30am on 7/3/2020 during the plant shift change. It was determined that the final load of the previous shift had completed a loading cycle without fully closing the valve allowing produced water to release to the ground. The first discovered evidence of the leak was in the liquid level indicator data, which indicated that the release did not start until approximately 2:30am on 7/3/2020. Based on operational data ~33 bbls of produced water were lost to the ground. Once the issue was identified the valve was closed completely ending the release.

Was this a major release as defined by 19.15.29.7(A) NMAC?

☒ Yes ☐ No

If YES, for what reason(s) does the responsible party consider this a major release?

The volume of the release was ~33 bbls which exceeds the minimum volume of 25 bbls considered to be a "major release."

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

Immediate notice was given to the OCD by Clint Cone, the Operations Manager for the Carlsbad Plant, via e-mail on Friday, July 3, 2020 at 2:56 P.M. The e-mail was submitted to Mike Bratcher and Jim Griswold of the New Mexico OCD.

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

- ☒ The source of the release has been stopped.
- ☒ The impacted area has been secured to protect human health and the environment.
- ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- ☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Clint Cone Title: Operations Manager

Signature:  Date: July 15, 2020

email: ccone@senderomidstream.com Telephone: (575) 361-3526

OCD Only

Received by: _____ Date: _____

Incident ID	NRM2020636542
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	_____ 57 _____ (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ☒ No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: Each of the following items must be included in the report.

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico
Oil Conservation Division

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Incident ID	NRM2020636542
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Clint Cone Title: Operations ManagerSignature:  Date: August 31, 2020email: ccone@senderomidstream.com Telephone: (575) 361-3526**OCD Only**Received by: Cristina Eads Date: 10/02/2020

Incident ID	NRM2020636542
District RP	
Facility ID	
Application ID	

Remediation Plan

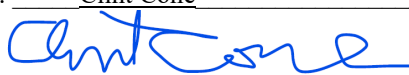
Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Clint Cone Title: Operations Manager
Signature:  Date: August 31, 2020
email: ccone@senderomidstream.com Telephone: (575) 361-3526

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

Incident ID	NRM2020636542
District RP	
Facility ID	
Application ID	

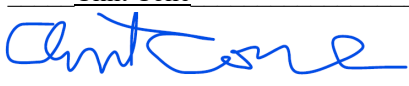
Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

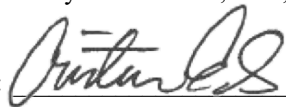
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Clint Cone Title: Operations Manager
Signature:  Date: August 31, 2020
email: ccone@senderomidstream.com Telephone: (575) 361-3526

OCD Only

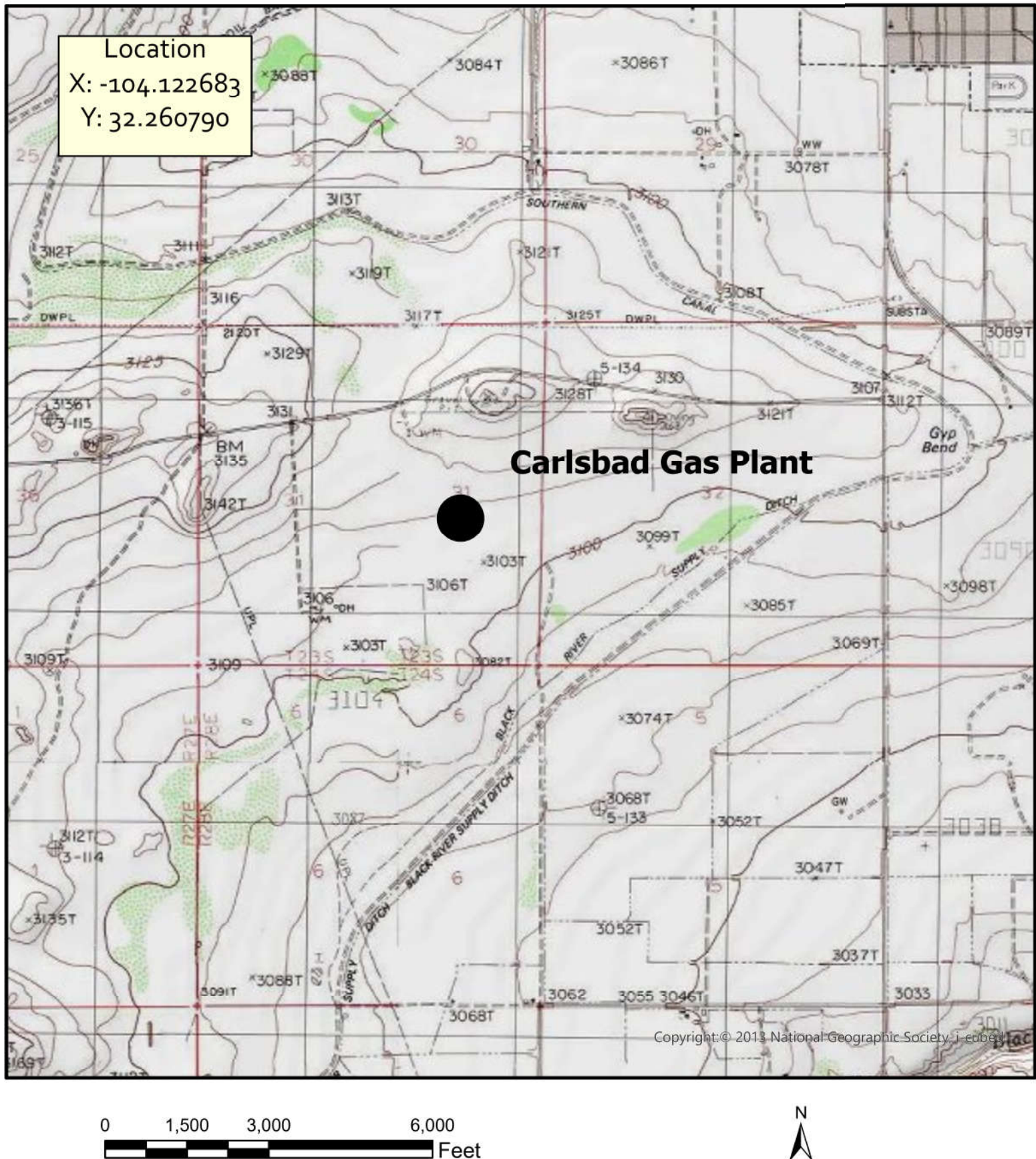
Received by: Cristina Eads Date: 10/02/2020

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by:  Date: 12/04/2020

Printed Name: Cristina Eads Title: Environmental Specialist

ATTACHMENT A – SURFACE FEATURES AND TOPOGRAPHIC MAP



RESOLUTE
COMPLIANCE, LLC
Purposeful Solutions. Unwavering Service.

Sendero Carlsbad Midstream
Carlsbad Gas Plant
Eddy County, NM

**Surface Features and
Topographic Map**

Project No. Env-Sendero - Carlsbad
Report No. PW Spill-0006
Date: August 2020

FIGURE 1

ATTACHMENT A – SITE MAP

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Received by OGD: 10/2/2020 8:19:51 AM

GPS LOCATION
Lat/Long 32.261345°, -104.123704°



- LEGEND
- SURFACE DRAINAGE DIRECTION
 - PRODUCED WATER SPILL EXTENT

- NOTES:
- AREAS A, B, C1-C3, D, E, AND F1-F4 INDICATE OIL STORAGE AREAS APPLICABLE TO SPCC. SEE TABLE 2 - EQUIPMENT INVENTORY AND SECONDARY CONTAINMENT DETAILS AND TABLE 3 - SECONDARY CONTAINMENT VOLUME CALCULATIONS FOR DETAILS.
 - QUANTITY AND LOCATION OF DRUMS/ TOTES IS SUBJECT TO CHANGED BASED ON OPERATIONAL NEEDS.
 - SEE FIGURE 2B FOR AREA SECONDARY CONTAINMENT AND TANK DETAILS.

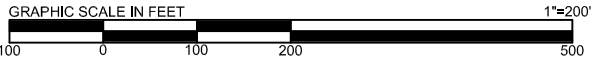


Sendero Midstream, LLC
Carlsbad Plant
Eddy County, NM

SITE MAP

Project No. Env - Sendero - Carlsbad Plant
Report No. PW Spill - 0006
Date: September 2020

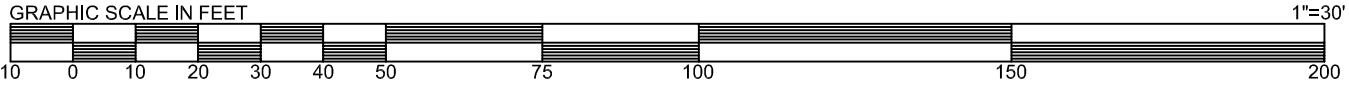
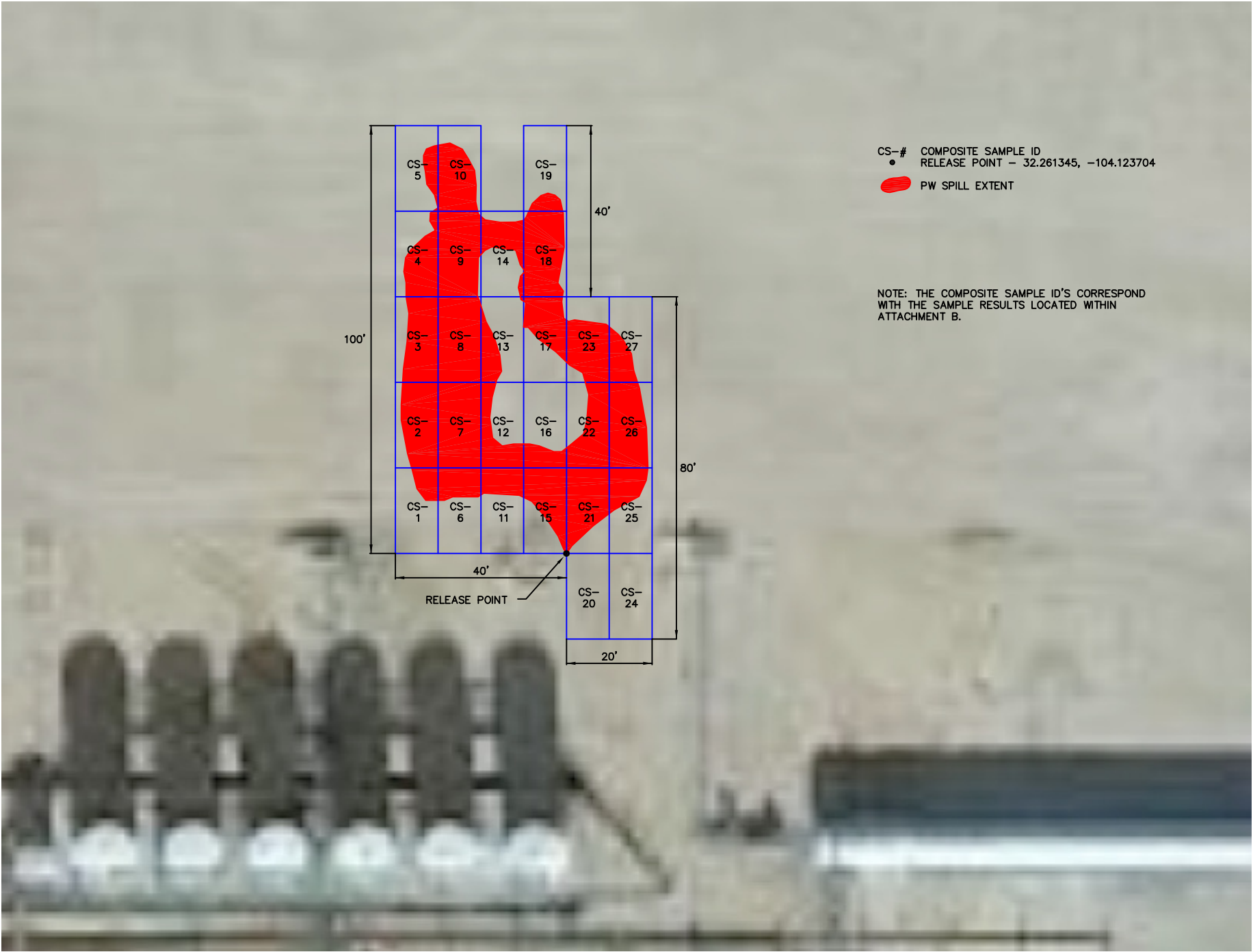
APPENDIX A



ATTACHMENT A – SAMPLING DIAGRAM

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Received by OGD: 10/2/2020 8:19:51 AM

GPS LOCATION
Lat/Long 32.261345°, -104.123704°



 RESOLUTE COMPLIANCE, LLC Purposeful Solutions. Unwavering Service.	Sendero Midstream, LLC Carlsbad Plant Eddy County, NM	Project No. Env - Sendero - Carlsbad Plant Report No. PW Spill - 0006 Date: September 2020
	SAMPLING DIAGRAM	
	APPENDIX A	

ATTACHMENT B – INITIAL RELEASE PHOTOS













ATTACHMENT B – FINAL REMEDIATION PHOTOS













ATTACHMENT C – ANALYTICAL RESULTS SUMMARY

Analytical Results Summary

SUMMARY OF ANALYTICAL RESULTS FOR WOR(S): 668043
P.W. Spill
Carlsbad NM

SAMPLE ID	SAMPLE DATE	SAMPLE DEPTH (FT)	IN SITU	REMOVED	Chloride (mg/kg)	Chloride Closure Criteria (mg/kg)	Gasoline Range Hydrocarbons (GRO) (mg/kg)	Diesel Range Organics (DRO) (mg/kg)	Motor Oil Range Hydrocarbons (MRO) (mg/kg)	Total TPH (mg/kg)	Total TPH Closure Criteria (mg/kg)	Benzene (mg/kg)	Benzene Closure Criteria (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	m,p-Xylenes (mg/kg)	o-Xylene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	BTEX Closure Criteria (mg/kg)
CS 1	07/23/20 00:00	0			150	600	<49.8	154	<49.8	154	100	<0.00200	10	<0.00200	<0.00200	<0.00399	<0.00200	<0.00200	<0.00200	50
CS 2	07/23/20 00:00	0			145	600	<50.1	<50.1	<50.1	<50.1	100	<0.00200	10	0.00285	0.00202	0.00950	0.00317	0.0127	0.0175	50
CS 3	07/23/20 00:00	0			141	600	<49.8	<49.8	<49.8	<49.8	100	<0.00200	10	<0.00200	0.00214	0.00967	0.00335	0.0130	0.0152	50
CS 4	07/23/20 00:00	0			109	600	<49.8	<49.8	<49.8	<49.8	100	<0.00199	10	<0.00199	<0.00199	<0.00398	<0.00199	<0.00199	<0.00199	50
CS 5	07/23/20 00:00	0			261	600	<50.3	<50.3	<50.3	<50.3	100	<0.00200	10	<0.00200	<0.00200	<0.00401	<0.00200	<0.00200	<0.00200	50
CS 6	07/23/20 00:00	0			104	600	<50.2	<50.2	<50.2	<50.2	100	<0.00202	10	<0.00202	<0.00202	<0.00403	<0.00202	<0.00202	<0.00202	50
CS 7	07/23/20 00:00	0			299	600	<50.1	<50.1	<50.1	<50.1	100	<0.00199	10	<0.00199	<0.00199	<0.00398	<0.00199	<0.00199	<0.00199	50
CS 8	07/23/20 00:00	0			204	600	<49.8	<49.8	<49.8	<49.8	100	<0.00199	10	<0.00199	<0.00199	<0.00398	<0.00199	<0.00199	<0.00199	50
CS 9	07/23/20 00:00	0			140	600	<49.9	<49.9	<49.9	<49.9	100	<0.00202	10	<0.00202	<0.00202	<0.00403	<0.00202	<0.00202	<0.00202	50
CS 10	07/23/20 00:00	0			141	600	<50.2	<50.2	<50.2	<50.2	100	<0.00202	10	<0.00202	<0.00202	<0.00404	<0.00202	<0.00202	<0.00202	50
CS 11	07/23/20 00:00	0			196	600	<50.1	<50.1	<50.1	<50.1	100	<0.00200	10	<0.00200	<0.00200	<0.00400	<0.00200	<0.00200	<0.00200	50
CS 12	07/23/20 00:00	0			488	600	<49.9	<49.9	<49.9	<49.9	100	<0.00202	10	<0.00202	<0.00202	<0.00404	<0.00202	<0.00202	<0.00202	50
CS 13	07/23/20 00:00	0			109	600	<50.2	<50.2	<50.2	<50.2	100	<0.00200	10	<0.00200	<0.00200	<0.00400	<0.00200	<0.00200	<0.00200	50
CS 14	07/23/20 00:00	0			356	600	<50.1	<50.1	<50.1	<50.1	100	<0.00198	10	<0.00198	<0.00198	<0.00396	<0.00198	<0.00198	<0.00198	50
CS 15	07/23/20 00:00	0			195	600	<50.0	<50.0	<50.0	<50.0	100	<0.00199	10	<0.00199	<0.00199	0.00500	<0.00199	0.00500	0.00500	50
CS 16	07/23/20 00:00	0			352	600	<50.2	53.9	<50.2	53.9	100	<0.00200	10	<0.00200	<0.00200	<0.00399	<0.00200	<0.00200	<0.00200	50
CS 17	07/23/20 00:00	0			373	600	<49.8	<49.8	<49.8	<49.8	100	<0.00202	10	<0.00202	<0.00202	<0.00403	<0.00202	<0.00202	<0.00202	50
CS 18	07/23/20 00:00	0			299	600	<49.8	<49.8	<49.8	<49.8	100	<0.00200	10	<0.00200	<0.00200	0.00586	0.00231	0.00817	0.00817	50
CS 19	07/23/20 00:00	0			229	600	<50.2	<50.2	<50.2	<50.2	100	<0.00201	10	<0.00201	<0.00201	<0.00402	<0.00201	<0.00201	<0.00201	50
CS 20	07/23/20 00:00	0			92.6	600	<49.9	<49.9	<49.9	<49.9	100	<0.00199	10	<0.00199	0.00432	0.0211	0.00739	0.0285	0.0328	50
CS 21	07/23/20 00:00	0			228	600	<50.0	<50.0	<50.0	<50.0	100	<0.00202	10	<0.00202	<0.00202	<0.00403	<0.00202	<0.00202	<0.00202	50
CS 22	07/23/20 00:00	0			108	600	<50.3	<50.3	<50.3	<50.3	100	<0.00201	10	<0.00201	<0.00201	<0.00402	<0.00201	<0.00201	<0.00201	50
CS 23	07/23/20 00:00	0			84.7	600	<49.9	<49.9	<49.9	<49.9	100	<0.00200	10	<0.00200	<0.00200	<0.00401	<0.00200	<0.00200	<0.00200	50
CS 24	07/23/20 00:00	0			262	600	<49.8	<49.8	<49.8	<49.8	100	<0.00198	10	<0.00198	0.00303	0.0147	0.00611	0.0206	0.0238	50
CS 25	07/23/20 00:00	0			303	600	<50.0	<50.0	<50.0	<50.0	100	<0.00202	10	<0.00202	<0.00202	0.00822	0.00325	0.0115	0.0115	50
CS 26	07/23/20 00:00	0			333	600	<50.3	<50.3	<50.3	<50.3	100	<0.00200	10	<0.00200	0.00204	0.0105	0.00454	0.0150	0.0171	50
CS 27	07/23/20 00:00	0			106	600	<50.0	<50.0	<50.0	<50.0	100	<0.00202	10	<0.00202	<0.00202	<0.00404	<0.00202	<0.00202	<0.00202	50
STP 1	07/23/20 00:00	0			78.7	600	<50.2	<50.2	<50.2	<50.2	100	<0.00202	10	<0.00202	<0.00202	<0.00403	<0.00202	<0.00202	<0.00202	50
STP 2	07/23/20 00:00	0			87.4	600	<50.1	<50.1	<50.1	<50.1	100	<0.00200	10	<0.00200	<0.00200	<0.00401	<0.00200	<0.00200	<0.00200	50
STP 3	07/23/20 00:00	0			97.6	600	<49.9	381	194	575	100	<0.00198	10	<0.00198	<0.00198	<0.00397	<0.00198	<0.00198	<0.00198	50
CS 1	08/14/20 00:00	0			173	600	<50.1	<50.1	<50.1	<50.1	100	<0.00245	10	<0.00245	<0.00980	<0.0196	<0.00980	<0.00980	<0.00245	50
STP 3	08/14/20 00:00	0			62.6	600	<50.1	<50.1	<50.1	<50.1	100	<0.00199	10	<0.00199	<0.00199	<0.00398	<0.00199	<0.00199	<0.00199	50

ATTACHMENT C – ANALYTICAL REPORTS

Certificate of Analysis Summary 668043

Resolute Compliance LLC, Royse City, TX

Project Name: P.W. Spill

Project Id:

Contact: James VanAssche

Project Location: Carlsbad NM

Date Received in Lab: Thu 07.23.2020 13:13

Report Date: 07.27.2020 10:45

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	668043-001	668043-002	668043-003	668043-004	668043-005	668043-006
	<i>Field Id:</i>	CS 1	CS 2	CS 3	CS 4	CS 5	CS 6
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	07.23.2020 00:00	07.23.2020 00:00	07.23.2020 00:00	07.23.2020 00:00	07.23.2020 00:00	07.23.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	07.23.2020 17:40	07.23.2020 17:40	07.23.2020 17:40	07.23.2020 17:40	07.23.2020 17:40	07.23.2020 17:40
	<i>Analyzed:</i>	07.23.2020 18:30	07.24.2020 10:25	07.24.2020 10:48	07.23.2020 19:39	07.23.2020 20:01	07.23.2020 20:22
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00202 0.00202
Toluene		<0.00200 0.00200	0.00285 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00202 0.00202
Ethylbenzene		<0.00200 0.00200	0.00202 0.00200	0.00214 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00202 0.00202
m,p-Xylenes		<0.00399 0.00399	0.00950 0.00399	0.00967 0.00401	<0.00398 0.00398	<0.00401 0.00401	<0.00403 0.00403
o-Xylene		<0.00200 0.00200	0.00317 0.00200	0.00335 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00202 0.00202
Total Xylenes		<0.00200 0.00200	0.0127 0.00200	0.0130 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00202 0.00202
Total BTEX		<0.00200 0.00200	0.0175 0.00200	0.0152 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00202 0.00202
Chloride by EPA 300	<i>Extracted:</i>	07.23.2020 15:12	07.23.2020 15:12	07.23.2020 15:12	07.23.2020 15:12	07.23.2020 15:12	07.23.2020 15:12
	<i>Analyzed:</i>	07.23.2020 18:40	07.23.2020 18:57	07.23.2020 19:02	07.23.2020 19:08	07.23.2020 19:13	07.23.2020 19:30
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		150 49.9	145 50.2	141 50.0	109 50.5	261 50.5	104 50.1
TPH By SW8015 Mod	<i>Extracted:</i>	07.23.2020 17:00	07.23.2020 17:00	07.23.2020 15:40	07.23.2020 15:40	07.23.2020 15:40	07.23.2020 15:40
	<i>Analyzed:</i>	07.23.2020 20:33	07.23.2020 20:54	07.23.2020 15:51	07.23.2020 16:51	07.23.2020 17:11	07.23.2020 17:31
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<49.8 49.8	<50.1 50.1	<49.8 49.8	<49.8 49.8	<50.3 50.3	<50.2 50.2
Diesel Range Organics (DRO)		154 49.8	<50.1 50.1	<49.8 49.8	<49.8 49.8	<50.3 50.3	<50.2 50.2
Motor Oil Range Hydrocarbons (MRO)		<49.8 49.8	<50.1 50.1	<49.8 49.8	<49.8 49.8	<50.3 50.3	<50.2 50.2
Total TPH		154 49.8	<50.1 50.1	<49.8 49.8	<49.8 49.8	<50.3 50.3	<50.2 50.2

BRL - Below Reporting Limit

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Certificate of Analysis Summary 668043

Resolute Compliance LLC, Royse City, TX

Project Name: P.W. Spill

Project Id:

Date Received in Lab: Thu 07.23.2020 13:13

Contact: James VanAssche

Report Date: 07.27.2020 10:45

Project Location: Carlsbad NM

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	668043-007	668043-008	668043-009	668043-010	668043-011	668043-012
	<i>Field Id:</i>	CS 7	CS 8	CS 9	CS 10	CS 11	CS 12
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	07.23.2020 00:00	07.23.2020 00:00	07.23.2020 00:00	07.23.2020 00:00	07.23.2020 00:00	07.23.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	07.23.2020 17:40	07.23.2020 17:40	07.23.2020 17:40	07.23.2020 17:40	07.23.2020 17:40	07.23.2020 17:40
	<i>Analyzed:</i>	07.23.2020 20:44	07.23.2020 21:05	07.23.2020 21:27	07.23.2020 21:48	07.23.2020 22:59	07.23.2020 23:26
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00199 0.00199	<0.00199 0.00199	<0.00202 0.00202	<0.00202 0.00202	<0.00200 0.00200	<0.00202 0.00202
Toluene		<0.00199 0.00199	<0.00199 0.00199	<0.00202 0.00202	<0.00202 0.00202	<0.00200 0.00200	<0.00202 0.00202
Ethylbenzene		<0.00199 0.00199	<0.00199 0.00199	<0.00202 0.00202	<0.00202 0.00202	<0.00200 0.00200	<0.00202 0.00202
m,p-Xylenes		<0.00398 0.00398	<0.00398 0.00398	<0.00403 0.00403	<0.00404 0.00404	<0.00400 0.00400	<0.00404 0.00404
o-Xylene		<0.00199 0.00199	<0.00199 0.00199	<0.00202 0.00202	<0.00202 0.00202	<0.00200 0.00200	<0.00202 0.00202
Total Xylenes		<0.00199 0.00199	<0.00199 0.00199	<0.00202 0.00202	<0.00202 0.00202	<0.00200 0.00200	<0.00202 0.00202
Total BTEX		<0.00199 0.00199	<0.00199 0.00199	<0.00202 0.00202	<0.00202 0.00202	<0.00200 0.00200	<0.00202 0.00202
Chloride by EPA 300	<i>Extracted:</i>	07.23.2020 15:12	07.23.2020 15:12	07.23.2020 15:12	07.23.2020 15:12	07.23.2020 15:12	07.23.2020 15:12
	<i>Analyzed:</i>	07.23.2020 19:36	07.23.2020 19:41	07.23.2020 19:47	07.23.2020 19:53	07.23.2020 19:58	07.23.2020 20:15
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		299 50.0	204 49.9	140 49.9	141 49.9	196 49.7	488 49.7
TPH By SW8015 Mod	<i>Extracted:</i>	07.23.2020 15:40	07.23.2020 15:40	07.23.2020 15:40	07.23.2020 15:40	07.23.2020 15:40	07.23.2020 15:40
	<i>Analyzed:</i>	07.23.2020 17:51	07.23.2020 18:11	07.23.2020 18:32	07.23.2020 18:52	07.23.2020 19:12	07.23.2020 19:32
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.1 50.1	<49.8 49.8	<49.9 49.9	<50.2 50.2	<50.1 50.1	<49.9 49.9
Diesel Range Organics (DRO)		<50.1 50.1	<49.8 49.8	<49.9 49.9	<50.2 50.2	<50.1 50.1	<49.9 49.9
Motor Oil Range Hydrocarbons (MRO)		<50.1 50.1	<49.8 49.8	<49.9 49.9	<50.2 50.2	<50.1 50.1	<49.9 49.9
Total TPH		<50.1 50.1	<49.8 49.8	<49.9 49.9	<50.2 50.2	<50.1 50.1	<49.9 49.9

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Certificate of Analysis Summary 668043



Resolute Compliance LLC, Royse City, TX

Project Name: P.W. Spill

Project Id:

Date Received in Lab: Thu 07.23.2020 13:13

Contact: James VanAssche

Report Date: 07.27.2020 10:45

Project Location: Carlsbad NM

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	668043-013	668043-014	668043-015	668043-016	668043-017	668043-018
	<i>Field Id:</i>	CS 13	CS 14	CS 15	CS 16	CS 17	CS 18
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	07.23.2020 00:00	07.23.2020 00:00	07.23.2020 00:00	07.23.2020 00:00	07.23.2020 00:00	07.23.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	07.23.2020 17:40	07.23.2020 17:40	07.23.2020 17:40	07.23.2020 17:40	07.23.2020 17:40	07.23.2020 17:40
	<i>Analyzed:</i>	07.23.2020 23:47	07.24.2020 00:08	07.24.2020 00:30	07.24.2020 00:51	07.24.2020 01:13	07.24.2020 01:34
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00200 0.00200	<0.00198 0.00198	<0.00199 0.00199	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200
Toluene		<0.00200 0.00200	<0.00198 0.00198	<0.00199 0.00199	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200
Ethylbenzene		<0.00200 0.00200	<0.00198 0.00198	<0.00199 0.00199	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200
m,p-Xylenes		<0.00400 0.00400	<0.00396 0.00396	0.00500 0.00398	<0.00399 0.00399	<0.00403 0.00403	0.00586 0.00400
o-Xylene		<0.00200 0.00200	<0.00198 0.00198	<0.00199 0.00199	<0.00200 0.00200	<0.00202 0.00202	0.00231 0.00200
Total Xylenes		<0.00200 0.00200	<0.00198 0.00198	0.00500 0.00199	<0.00200 0.00200	<0.00202 0.00202	0.00817 0.00200
Total BTEX		<0.00200 0.00200	<0.00198 0.00198	0.00500 0.00199	<0.00200 0.00200	<0.00202 0.00202	0.00817 0.00200
Chloride by EPA 300	<i>Extracted:</i>	07.23.2020 15:12	07.23.2020 15:12	07.23.2020 15:12	07.23.2020 15:12	07.23.2020 15:12	07.23.2020 15:12
	<i>Analyzed:</i>	07.23.2020 20:20	07.23.2020 20:37	07.23.2020 20:43	07.23.2020 20:48	07.23.2020 20:54	07.23.2020 20:59
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		109 50.4	356 49.5	195 49.6	352 49.9	373 50.1	299 49.8
TPH By SW8015 Mod	<i>Extracted:</i>	07.23.2020 15:40	07.23.2020 15:40	07.23.2020 15:40	07.23.2020 15:40	07.23.2020 15:40	07.23.2020 15:40
	<i>Analyzed:</i>	07.23.2020 20:13	07.23.2020 20:33	07.23.2020 20:54	07.23.2020 21:14	07.23.2020 21:35	07.23.2020 21:55
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.2 50.2	<50.1 50.1	<50.0 50.0	<50.2 50.2	<49.8 49.8	<49.8 49.8
Diesel Range Organics (DRO)		<50.2 50.2	<50.1 50.1	<50.0 50.0	53.9 50.2	<49.8 49.8	<49.8 49.8
Motor Oil Range Hydrocarbons (MRO)		<50.2 50.2	<50.1 50.1	<50.0 50.0	<50.2 50.2	<49.8 49.8	<49.8 49.8
Total TPH		<50.2 50.2	<50.1 50.1	<50.0 50.0	53.9 50.2	<49.8 49.8	<49.8 49.8

BRL - Below Reporting Limit

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Certificate of Analysis Summary 668043

Resolute Compliance LLC, Royse City, TX

Project Name: P.W. Spill

Project Id:

Date Received in Lab: Thu 07.23.2020 13:13

Contact: James VanAssche

Report Date: 07.27.2020 10:45

Project Location: Carlsbad NM

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	668043-019	668043-020	668043-021	668043-022	668043-023	668043-024
	<i>Field Id:</i>	CS 19	CS 20	CS 21	CS 22	CS 23	CS 24
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	07.23.2020 00:00	07.23.2020 00:00	07.23.2020 00:00	07.23.2020 00:00	07.23.2020 00:00	07.23.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	07.23.2020 17:40	07.23.2020 17:40	07.23.2020 16:44	07.23.2020 16:44	07.23.2020 16:44	07.23.2020 16:44
	<i>Analyzed:</i>	07.24.2020 01:56	07.24.2020 11:10	07.24.2020 05:48	07.24.2020 06:15	07.24.2020 06:36	07.24.2020 06:58
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00201 0.00201	<0.00199 0.00199	<0.00202 0.00202	<0.00201 0.00201	<0.00200 0.00200	<0.00198 0.00198
Toluene		<0.00201 0.00201	<0.00199 0.00199	<0.00202 0.00202	<0.00201 0.00201	<0.00200 0.00200	<0.00198 0.00198
Ethylbenzene		<0.00201 0.00201	0.00432 0.00199	<0.00202 0.00202	<0.00201 0.00201	<0.00200 0.00200	0.00303 0.00198
m,p-Xylenes		<0.00402 0.00402	0.0211 0.00398	<0.00403 0.00403	<0.00402 0.00402	<0.00401 0.00401	0.0147 0.00397
o-Xylene		<0.00201 0.00201	0.00739 0.00199	<0.00202 0.00202	<0.00201 0.00201	<0.00200 0.00200	0.00611 0.00198
Total Xylenes		<0.00201 0.00201	0.0285 0.00199	<0.00202 0.00202	<0.00201 0.00201	<0.00200 0.00200	0.0208 0.00198
Total BTEX		<0.00201 0.00201	0.0328 0.00199	<0.00202 0.00202	<0.00201 0.00201	<0.00200 0.00200	0.0238 0.00198
Chloride by EPA 300	<i>Extracted:</i>	07.23.2020 15:12	07.23.2020 15:12	07.23.2020 16:37	07.23.2020 16:37	07.23.2020 16:37	07.23.2020 16:37
	<i>Analyzed:</i>	07.23.2020 21:05	07.23.2020 21:11	07.23.2020 21:44	07.23.2020 22:01	07.23.2020 22:06	07.23.2020 22:12
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		229 49.9	92.6 49.7	228 49.5	108 49.4	94.7 49.7	262 49.6
TPH By SW8015 Mod	<i>Extracted:</i>	07.23.2020 15:40	07.23.2020 15:40	07.23.2020 15:40	07.23.2020 15:40	07.23.2020 17:10	07.23.2020 17:10
	<i>Analyzed:</i>	07.23.2020 22:16	07.23.2020 22:36	07.23.2020 22:57	07.23.2020 23:17	07.23.2020 22:36	07.23.2020 23:37
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.2 50.2	<49.9 49.9	<50.0 50.0	<50.3 50.3	<49.9 49.9	<49.8 49.8
Diesel Range Organics (DRO)		<50.2 50.2	<49.9 49.9	<50.0 50.0	<50.3 50.3	<49.9 49.9	<49.8 49.8
Motor Oil Range Hydrocarbons (MRO)		<50.2 50.2	<49.9 49.9	<50.0 50.0	<50.3 50.3	<49.9 49.9	<49.8 49.8
Total TPH		<50.2 50.2	<49.9 49.9	<50.0 50.0	<50.3 50.3	<49.9 49.9	<49.8 49.8

BRL - Below Reporting Limit

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



Certificate of Analysis Summary 668043

Resolute Compliance LLC, Royse City, TX

Project Name: P.W. Spill

Project Id:

Date Received in Lab: Thu 07.23.2020 13:13

Contact: James VanAssche

Report Date: 07.27.2020 10:45

Project Location: Carlsbad NM

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	668043-025	668043-026	668043-027	668043-028	668043-029	668043-030
	<i>Field Id:</i>	CS 25	CS 26	CS 27	STP 1	STP 2	STP 3
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	07.23.2020 00:00	07.23.2020 00:00	07.23.2020 00:00	07.23.2020 00:00	07.23.2020 00:00	07.23.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	07.23.2020 16:44	07.23.2020 16:44	07.23.2020 16:44	07.23.2020 16:44	07.23.2020 16:44	07.23.2020 16:44
	<i>Analyzed:</i>	07.24.2020 12:15	07.24.2020 07:40	07.24.2020 08:02	07.24.2020 08:23	07.24.2020 08:45	07.24.2020 09:07
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00202 0.00202	<0.00200 0.00200	<0.00202 0.00202	<0.00202 0.00202	<0.00200 0.00200	<0.00198 0.00198
Toluene		<0.00202 0.00202	<0.00200 0.00200	<0.00202 0.00202	<0.00202 0.00202	<0.00200 0.00200	<0.00198 0.00198
Ethylbenzene		<0.00202 0.00202	0.00204 0.00200	<0.00202 0.00202	<0.00202 0.00202	<0.00200 0.00200	<0.00198 0.00198
m,p-Xylenes		0.00822 0.00403	0.0105 0.00401	<0.00404 0.00404	<0.00403 0.00403	<0.00401 0.00401	<0.00397 0.00397
o-Xylene		0.00325 0.00202	0.00454 0.00200	<0.00202 0.00202	<0.00202 0.00202	<0.00200 0.00200	<0.00198 0.00198
Total Xylenes		0.0115 0.00202	0.0150 0.00200	<0.00202 0.00202	<0.00202 0.00202	<0.00200 0.00200	<0.00198 0.00198
Total BTEX		0.0115 0.00202	0.0171 0.00200	<0.00202 0.00202	<0.00202 0.00202	<0.00200 0.00200	<0.00198 0.00198
Chloride by EPA 300	<i>Extracted:</i>	07.23.2020 16:37	07.23.2020 16:37	07.23.2020 16:37	07.23.2020 16:37	07.23.2020 16:37	07.23.2020 16:37
	<i>Analyzed:</i>	07.23.2020 22:17	07.23.2020 22:34	07.23.2020 22:40	07.23.2020 22:45	07.23.2020 22:51	07.23.2020 22:56
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		303 49.4	333 50.0	106 49.5	78.7 49.9	67.4 49.7	97.6 49.9
TPH By SW8015 Mod	<i>Extracted:</i>	07.23.2020 17:10	07.23.2020 17:10	07.23.2020 17:10	07.23.2020 17:10	07.23.2020 17:10	07.23.2020 17:10
	<i>Analyzed:</i>	07.23.2020 23:57	07.24.2020 00:18	07.24.2020 00:38	07.24.2020 00:59	07.24.2020 01:20	07.24.2020 01:40
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0	<50.3 50.3	<50.0 50.0	<50.2 50.2	<50.1 50.1	<49.9 49.9
Diesel Range Organics (DRO)		<50.0 50.0	<50.3 50.3	<50.0 50.0	<50.2 50.2	<50.1 50.1	381 49.9
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<50.3 50.3	<50.0 50.0	<50.2 50.2	<50.1 50.1	194 49.9
Total TPH		<50.0 50.0	<50.3 50.3	<50.0 50.0	<50.2 50.2	<50.1 50.1	575 49.9

BRL - Below Reporting Limit

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



Analytical Report 668043

for

Resolute Compliance LLC

Project Manager: James VanAssche

P.W. Spill

07.27.2020

Collected By: Juan Garcia

**1089 N Canal Street
Carlsbad, NM 88220**

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-36), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-25), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-17)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TN102385): Texas (T104704534-20-7)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)



07.27.2020

Project Manager: **James VanAssche**

Resolute Compliance LLC

115 FM 2453 Ste A

Royse City, TX 75189

Reference: Eurofins Xenco, LLC Report No(s): **668043**

P.W. Spill

Project Address: Carlsbad NM

James VanAssche:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 668043. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 668043 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

A handwritten signature in black ink that reads "Jessica Kramer".

Jessica Kramer

Project Manager

A Small Business and Minority Company

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

Sample Cross Reference 668043**Resolute Compliance LLC, Royse City, TX**

P.W. Spill

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
CS 1	S	07.23.2020 00:00		668043-001
CS 2	S	07.23.2020 00:00		668043-002
CS 3	S	07.23.2020 00:00		668043-003
CS 4	S	07.23.2020 00:00		668043-004
CS 5	S	07.23.2020 00:00		668043-005
CS 6	S	07.23.2020 00:00		668043-006
CS 7	S	07.23.2020 00:00		668043-007
CS 8	S	07.23.2020 00:00		668043-008
CS 9	S	07.23.2020 00:00		668043-009
CS 10	S	07.23.2020 00:00		668043-010
CS 11	S	07.23.2020 00:00		668043-011
CS 12	S	07.23.2020 00:00		668043-012
CS 13	S	07.23.2020 00:00		668043-013
CS 14	S	07.23.2020 00:00		668043-014
CS 15	S	07.23.2020 00:00		668043-015
CS 16	S	07.23.2020 00:00		668043-016
CS 17	S	07.23.2020 00:00		668043-017
CS 18	S	07.23.2020 00:00		668043-018
CS 19	S	07.23.2020 00:00		668043-019
CS 20	S	07.23.2020 00:00		668043-020
CS 21	S	07.23.2020 00:00		668043-021
CS 22	S	07.23.2020 00:00		668043-022
CS 23	S	07.23.2020 00:00		668043-023
CS 24	S	07.23.2020 00:00		668043-024
CS 25	S	07.23.2020 00:00		668043-025
CS 26	S	07.23.2020 00:00		668043-026
CS 27	S	07.23.2020 00:00		668043-027
STP 1	S	07.23.2020 00:00		668043-028
STP 2	S	07.23.2020 00:00		668043-029
STP 3	S	07.23.2020 00:00		668043-030



CASE NARRATIVE

Client Name: Resolute Compliance LLC

Project Name: P.W. Spill

Project ID:
Work Order Number(s): 668043

Report Date: 07.27.2020
Date Received: 07.23.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



Certificate of Analytical Results 668043

Resolute Compliance LLC, Royse City, TX

P.W. Spill

Sample Id: **CS 1** Matrix: **Soil** Date Received: 07.23.2020 13:13
 Lab Sample Id: 668043-001 Date Collected: 07.23.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: **MAB** % Moisture:
 Analyst: **MAB** Date Prep: 07.23.2020 15:12 Basis: **Wet Weight**
 Seq Number: 3132525

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	150	49.9	mg/kg	07.23.2020 18:40		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: **DTH** % Moisture:
 Analyst: **DTH** Date Prep: 07.23.2020 17:00 Basis: **Wet Weight**
 Seq Number: 3132503

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	07.23.2020 20:33	U	1
Diesel Range Organics (DRO)	C10C28DRO	154	49.8	mg/kg	07.23.2020 20:33		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	07.23.2020 20:33	U	1
Total TPH	PHC635	154	49.8	mg/kg	07.23.2020 20:33		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	119	%	70-135	07.23.2020 20:33	
o-Terphenyl	84-15-1	113	%	70-135	07.23.2020 20:33	



Certificate of Analytical Results 668043

Resolute Compliance LLC, Royse City, TX

P.W. Spill

Sample Id: CS 1
Lab Sample Id: 668043-001

Matrix: Soil
Date Collected: 07.23.2020 00:00

Date Received: 07.23.2020 13:13

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 07.23.2020 17:40

Basis: Wet Weight

Seq Number: 3132534

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	07.23.2020 18:30	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	07.23.2020 18:30	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	07.23.2020 18:30	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	07.23.2020 18:30	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	07.23.2020 18:30	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	07.23.2020 18:30	U	1
Total BTEX		<0.00200	0.00200	mg/kg	07.23.2020 18:30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	96	%	70-130	07.23.2020 18:30	
4-Bromofluorobenzene	460-00-4	89	%	70-130	07.23.2020 18:30	



Certificate of Analytical Results 668043

Resolute Compliance LLC, Royse City, TX

P.W. Spill

Sample Id: CS 2 Matrix: Soil Date Received: 07.23.2020 13:13
 Lab Sample Id: 668043-002 Date Collected: 07.23.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 07.23.2020 15:12 Basis: Wet Weight
 Seq Number: 3132525

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	145	50.2	mg/kg	07.23.2020 18:57		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 07.23.2020 17:00 Basis: Wet Weight
 Seq Number: 3132503

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	07.23.2020 20:54	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	07.23.2020 20:54	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	07.23.2020 20:54	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	07.23.2020 20:54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	109	%	70-135	07.23.2020 20:54	
o-Terphenyl	84-15-1	105	%	70-135	07.23.2020 20:54	



Certificate of Analytical Results 668043

Resolute Compliance LLC, Royse City, TX

P.W. Spill

Sample Id: CS 2
Lab Sample Id: 668043-002

Matrix: Soil
Date Collected: 07.23.2020 00:00

Date Received: 07.23.2020 13:13

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 07.23.2020 17:40

Basis: Wet Weight

Seq Number: 3132534

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	07.24.2020 10:25	U	1
Toluene	108-88-3	0.00285	0.00200	mg/kg	07.24.2020 10:25		1
Ethylbenzene	100-41-4	0.00202	0.00200	mg/kg	07.24.2020 10:25		1
m,p-Xylenes	179601-23-1	0.00950	0.00399	mg/kg	07.24.2020 10:25		1
o-Xylene	95-47-6	0.00317	0.00200	mg/kg	07.24.2020 10:25		1
Total Xylenes	1330-20-7	0.0127	0.00200	mg/kg	07.24.2020 10:25		1
Total BTEX		0.0175	0.00200	mg/kg	07.24.2020 10:25		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	98	%	70-130	07.24.2020 10:25		
4-Bromofluorobenzene	460-00-4	96	%	70-130	07.24.2020 10:25		



Certificate of Analytical Results 668043

Resolute Compliance LLC, Royse City, TX

P.W. Spill

Sample Id: CS 3 Matrix: Soil Date Received: 07.23.2020 13:13
 Lab Sample Id: 668043-003 Date Collected: 07.23.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 07.23.2020 15:12 Basis: Wet Weight
 Seq Number: 3132525

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	141	50.0	mg/kg	07.23.2020 19:02		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 07.23.2020 15:40 Basis: Wet Weight
 Seq Number: 3132510

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	07.23.2020 15:51	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	07.23.2020 15:51	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	07.23.2020 15:51	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	07.23.2020 15:51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	119	%	70-135	07.23.2020 15:51	
o-Terphenyl	84-15-1	109	%	70-135	07.23.2020 15:51	



Certificate of Analytical Results 668043

Resolute Compliance LLC, Royse City, TX

P.W. Spill

Sample Id: CS 3
Lab Sample Id: 668043-003

Matrix: Soil
Date Collected: 07.23.2020 00:00

Date Received: 07.23.2020 13:13

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 07.23.2020 17:40

Basis: Wet Weight

Seq Number: 3132534

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	07.24.2020 10:48	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	07.24.2020 10:48	U	1
Ethylbenzene	100-41-4	0.00214	0.00200	mg/kg	07.24.2020 10:48		1
m,p-Xylenes	179601-23-1	0.00967	0.00401	mg/kg	07.24.2020 10:48		1
o-Xylene	95-47-6	0.00335	0.00200	mg/kg	07.24.2020 10:48		1
Total Xylenes	1330-20-7	0.0130	0.00200	mg/kg	07.24.2020 10:48		1
Total BTEX		0.0152	0.00200	mg/kg	07.24.2020 10:48		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	101	%	70-130	07.24.2020 10:48	
4-Bromofluorobenzene	460-00-4	104	%	70-130	07.24.2020 10:48	



Certificate of Analytical Results 668043

Resolute Compliance LLC, Royse City, TX

P.W. Spill

Sample Id: CS 4 Matrix: Soil Date Received: 07.23.2020 13:13
 Lab Sample Id: 668043-004 Date Collected: 07.23.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 07.23.2020 15:12 Basis: Wet Weight
 Seq Number: 3132525

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	109	50.5	mg/kg	07.23.2020 19:08		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 07.23.2020 15:40 Basis: Wet Weight
 Seq Number: 3132510

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	07.23.2020 16:51	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	07.23.2020 16:51	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	07.23.2020 16:51	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	07.23.2020 16:51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	122	%	70-135	07.23.2020 16:51	
o-Terphenyl	84-15-1	116	%	70-135	07.23.2020 16:51	



Certificate of Analytical Results 668043

Resolute Compliance LLC, Royse City, TX

P.W. Spill

Sample Id: CS 4
Lab Sample Id: 668043-004

Matrix: Soil
Date Collected: 07.23.2020 00:00

Date Received: 07.23.2020 13:13

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 07.23.2020 17:40

Basis: Wet Weight

Seq Number: 3132534

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	07.23.2020 19:39	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	07.23.2020 19:39	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	07.23.2020 19:39	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	07.23.2020 19:39	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	07.23.2020 19:39	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	07.23.2020 19:39	U	1
Total BTEX		<0.00199	0.00199	mg/kg	07.23.2020 19:39	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	104	%	70-130	07.23.2020 19:39		
1,4-Difluorobenzene	540-36-3	101	%	70-130	07.23.2020 19:39		



Certificate of Analytical Results 668043

Resolute Compliance LLC, Royse City, TX

P.W. Spill

Sample Id: CS 5 Matrix: Soil Date Received: 07.23.2020 13:13
 Lab Sample Id: 668043-005 Date Collected: 07.23.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 07.23.2020 15:12 Basis: Wet Weight
 Seq Number: 3132525

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	261	50.5	mg/kg	07.23.2020 19:13		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 07.23.2020 15:40 Basis: Wet Weight
 Seq Number: 3132510

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	07.23.2020 17:11	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	07.23.2020 17:11	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	07.23.2020 17:11	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	07.23.2020 17:11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	118	%	70-135	07.23.2020 17:11	
o-Terphenyl	84-15-1	114	%	70-135	07.23.2020 17:11	



Certificate of Analytical Results 668043

Resolute Compliance LLC, Royse City, TX

P.W. Spill

Sample Id: CS 5
Lab Sample Id: 668043-005

Matrix: Soil
Date Collected: 07.23.2020 00:00

Date Received: 07.23.2020 13:13

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 07.23.2020 17:40

Basis: Wet Weight

Seq Number: 3132534

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	07.23.2020 20:01	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	07.23.2020 20:01	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	07.23.2020 20:01	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	07.23.2020 20:01	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	07.23.2020 20:01	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	07.23.2020 20:01	U	1
Total BTEX		<0.00200	0.00200	mg/kg	07.23.2020 20:01	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	104	%	70-130	07.23.2020 20:01	
1,4-Difluorobenzene	540-36-3	102	%	70-130	07.23.2020 20:01	



Certificate of Analytical Results 668043

Resolute Compliance LLC, Royse City, TX

P.W. Spill

Sample Id: **CS 6** Matrix: **Soil** Date Received: 07.23.2020 13:13
 Lab Sample Id: 668043-006 Date Collected: 07.23.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: **MAB** % Moisture:
 Analyst: **MAB** Date Prep: 07.23.2020 15:12 Basis: **Wet Weight**
 Seq Number: 3132525

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	104	50.1	mg/kg	07.23.2020 19:30		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: **DTH** % Moisture:
 Analyst: **DTH** Date Prep: 07.23.2020 15:40 Basis: **Wet Weight**
 Seq Number: 3132510

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	07.23.2020 17:31	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	07.23.2020 17:31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	07.23.2020 17:31	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	07.23.2020 17:31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	115	%	70-135	07.23.2020 17:31	
o-Terphenyl	84-15-1	109	%	70-135	07.23.2020 17:31	



Certificate of Analytical Results 668043

Resolute Compliance LLC, Royse City, TX

P.W. Spill

Sample Id: CS 6
Lab Sample Id: 668043-006

Matrix: Soil
Date Collected: 07.23.2020 00:00

Date Received: 07.23.2020 13:13

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 07.23.2020 17:40

Basis: Wet Weight

Seq Number: 3132534

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	07.23.2020 20:22	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	07.23.2020 20:22	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	07.23.2020 20:22	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	07.23.2020 20:22	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	07.23.2020 20:22	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	07.23.2020 20:22	U	1
Total BTEX		<0.00202	0.00202	mg/kg	07.23.2020 20:22	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	99	%	70-130	07.23.2020 20:22		
4-Bromofluorobenzene	460-00-4	102	%	70-130	07.23.2020 20:22		



Certificate of Analytical Results 668043

Resolute Compliance LLC, Royse City, TX

P.W. Spill

Sample Id: CS 7 Matrix: Soil Date Received: 07.23.2020 13:13
 Lab Sample Id: 668043-007 Date Collected: 07.23.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 07.23.2020 15:12 Basis: Wet Weight
 Seq Number: 3132525

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	299	50.0	mg/kg	07.23.2020 19:36		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 07.23.2020 15:40 Basis: Wet Weight
 Seq Number: 3132510

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	07.23.2020 17:51	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	07.23.2020 17:51	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	07.23.2020 17:51	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	07.23.2020 17:51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	118	%	70-135	07.23.2020 17:51	
o-Terphenyl	84-15-1	113	%	70-135	07.23.2020 17:51	



Certificate of Analytical Results 668043

Resolute Compliance LLC, Royse City, TX

P.W. Spill

Sample Id: CS 7
Lab Sample Id: 668043-007

Matrix: Soil
Date Collected: 07.23.2020 00:00

Date Received: 07.23.2020 13:13

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 07.23.2020 17:40

Basis: Wet Weight

Seq Number: 3132534

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	07.23.2020 20:44	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	07.23.2020 20:44	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	07.23.2020 20:44	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	07.23.2020 20:44	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	07.23.2020 20:44	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	07.23.2020 20:44	U	1
Total BTEX		<0.00199	0.00199	mg/kg	07.23.2020 20:44	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	109	%	70-130	07.23.2020 20:44	
1,4-Difluorobenzene	540-36-3	102	%	70-130	07.23.2020 20:44	



Certificate of Analytical Results 668043

Resolute Compliance LLC, Royse City, TX

P.W. Spill

Sample Id: **CS 8** Matrix: Soil Date Received: 07.23.2020 13:13
 Lab Sample Id: 668043-008 Date Collected: 07.23.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 07.23.2020 15:12 Basis: Wet Weight
 Seq Number: 3132525

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	204	49.9	mg/kg	07.23.2020 19:41		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 07.23.2020 15:40 Basis: Wet Weight
 Seq Number: 3132510

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	07.23.2020 18:11	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	07.23.2020 18:11	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	07.23.2020 18:11	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	07.23.2020 18:11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	114	%	70-135	07.23.2020 18:11	
o-Terphenyl	84-15-1	114	%	70-135	07.23.2020 18:11	



Certificate of Analytical Results 668043

Resolute Compliance LLC, Royse City, TX

P.W. Spill

Sample Id: **CS 8**
Lab Sample Id: 668043-008

Matrix: Soil
Date Collected: 07.23.2020 00:00

Date Received: 07.23.2020 13:13

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 07.23.2020 17:40

Basis: Wet Weight

Seq Number: 3132534

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	07.23.2020 21:05	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	07.23.2020 21:05	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	07.23.2020 21:05	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	07.23.2020 21:05	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	07.23.2020 21:05	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	07.23.2020 21:05	U	1
Total BTEX		<0.00199	0.00199	mg/kg	07.23.2020 21:05	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	101	%	70-130	07.23.2020 21:05		
4-Bromofluorobenzene	460-00-4	104	%	70-130	07.23.2020 21:05		



Certificate of Analytical Results 668043

Resolute Compliance LLC, Royse City, TX

P.W. Spill

Sample Id: **CS 9** Matrix: **Soil** Date Received: 07.23.2020 13:13
 Lab Sample Id: 668043-009 Date Collected: 07.23.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: **MAB** % Moisture:
 Analyst: **MAB** Date Prep: 07.23.2020 15:12 Basis: **Wet Weight**
 Seq Number: 3132525

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	140	49.9	mg/kg	07.23.2020 19:47		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: **DTH** % Moisture:
 Analyst: **DTH** Date Prep: 07.23.2020 15:40 Basis: **Wet Weight**
 Seq Number: 3132510

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	07.23.2020 18:32	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	07.23.2020 18:32	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	07.23.2020 18:32	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	07.23.2020 18:32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	114	%	70-135	07.23.2020 18:32	
o-Terphenyl	84-15-1	110	%	70-135	07.23.2020 18:32	



Certificate of Analytical Results 668043

Resolute Compliance LLC, Royse City, TX

P.W. Spill

Sample Id: CS 9
Lab Sample Id: 668043-009

Matrix: Soil
Date Collected: 07.23.2020 00:00

Date Received: 07.23.2020 13:13

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 07.23.2020 17:40

Basis: Wet Weight

Seq Number: 3132534

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	07.23.2020 21:27	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	07.23.2020 21:27	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	07.23.2020 21:27	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	07.23.2020 21:27	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	07.23.2020 21:27	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	07.23.2020 21:27	U	1
Total BTEX		<0.00202	0.00202	mg/kg	07.23.2020 21:27	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	106	%	70-130	07.23.2020 21:27	
1,4-Difluorobenzene	540-36-3	101	%	70-130	07.23.2020 21:27	



Certificate of Analytical Results 668043

Resolute Compliance LLC, Royse City, TX

P.W. Spill

Sample Id: **CS 10** Matrix: Soil Date Received: 07.23.2020 13:13
 Lab Sample Id: 668043-010 Date Collected: 07.23.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 07.23.2020 15:12 Basis: Wet Weight
 Seq Number: 3132525

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	141	49.9	mg/kg	07.23.2020 19:53		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 07.23.2020 15:40 Basis: Wet Weight
 Seq Number: 3132510

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	07.23.2020 18:52	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	07.23.2020 18:52	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	07.23.2020 18:52	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	07.23.2020 18:52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	109	%	70-135	07.23.2020 18:52	
o-Terphenyl	84-15-1	101	%	70-135	07.23.2020 18:52	



Certificate of Analytical Results 668043

Resolute Compliance LLC, Royse City, TX

P.W. Spill

Sample Id: **CS 10**
Lab Sample Id: 668043-010

Matrix: Soil
Date Collected: 07.23.2020 00:00

Date Received: 07.23.2020 13:13

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 07.23.2020 17:40

Basis: Wet Weight

Seq Number: 3132534

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	07.23.2020 21:48	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	07.23.2020 21:48	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	07.23.2020 21:48	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	07.23.2020 21:48	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	07.23.2020 21:48	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	07.23.2020 21:48	U	1
Total BTEX		<0.00202	0.00202	mg/kg	07.23.2020 21:48	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	103	%	70-130	07.23.2020 21:48		
1,4-Difluorobenzene	540-36-3	100	%	70-130	07.23.2020 21:48		



Certificate of Analytical Results 668043

Resolute Compliance LLC, Royse City, TX

P.W. Spill

Sample Id: CS 11 Matrix: Soil Date Received: 07.23.2020 13:13
 Lab Sample Id: 668043-011 Date Collected: 07.23.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 07.23.2020 15:12 Basis: Wet Weight
 Seq Number: 3132525

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	196	49.7	mg/kg	07.23.2020 19:58		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 07.23.2020 15:40 Basis: Wet Weight
 Seq Number: 3132510

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	07.23.2020 19:12	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	07.23.2020 19:12	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	07.23.2020 19:12	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	07.23.2020 19:12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	112	%	70-135	07.23.2020 19:12	
o-Terphenyl	84-15-1	102	%	70-135	07.23.2020 19:12	



Certificate of Analytical Results 668043

Resolute Compliance LLC, Royse City, TX

P.W. Spill

Sample Id: CS 11
Lab Sample Id: 668043-011

Matrix: Soil
Date Collected: 07.23.2020 00:00

Date Received: 07.23.2020 13:13

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 07.23.2020 17:40

Basis: Wet Weight

Seq Number: 3132534

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	07.23.2020 22:59	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	07.23.2020 22:59	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	07.23.2020 22:59	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	07.23.2020 22:59	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	07.23.2020 22:59	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	07.23.2020 22:59	U	1
Total BTEX		<0.00200	0.00200	mg/kg	07.23.2020 22:59	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	89	%	70-130	07.23.2020 22:59		
1,4-Difluorobenzene	540-36-3	96	%	70-130	07.23.2020 22:59		



Certificate of Analytical Results 668043

Resolute Compliance LLC, Royse City, TX

P.W. Spill

Sample Id: CS 12 Matrix: Soil Date Received: 07.23.2020 13:13
 Lab Sample Id: 668043-012 Date Collected: 07.23.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 07.23.2020 15:12 Basis: Wet Weight
 Seq Number: 3132525

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	488	49.7	mg/kg	07.23.2020 20:15		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 07.23.2020 15:40 Basis: Wet Weight
 Seq Number: 3132510

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	07.23.2020 19:32	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	07.23.2020 19:32	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	07.23.2020 19:32	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	07.23.2020 19:32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	117	%	70-135	07.23.2020 19:32	
o-Terphenyl	84-15-1	114	%	70-135	07.23.2020 19:32	



Certificate of Analytical Results 668043

Resolute Compliance LLC, Royse City, TX

P.W. Spill

Sample Id: CS 12
Lab Sample Id: 668043-012

Matrix: Soil
Date Collected: 07.23.2020 00:00

Date Received: 07.23.2020 13:13

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 07.23.2020 17:40

Basis: Wet Weight

Seq Number: 3132534

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	07.23.2020 23:26	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	07.23.2020 23:26	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	07.23.2020 23:26	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	07.23.2020 23:26	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	07.23.2020 23:26	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	07.23.2020 23:26	U	1
Total BTEX		<0.00202	0.00202	mg/kg	07.23.2020 23:26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	101	%	70-130	07.23.2020 23:26	
1,4-Difluorobenzene	540-36-3	100	%	70-130	07.23.2020 23:26	



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Resolute Compliance LLC, Royse City, TX

P.W. Spill

Sample Id: **CS 13** Matrix: **Soil** Date Received: 07.23.2020 13:13
 Lab Sample Id: 668043-013 Date Collected: 07.23.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: **MAB** % Moisture:
 Analyst: **MAB** Date Prep: 07.23.2020 15:12 Basis: **Wet Weight**
 Seq Number: 3132525

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	109	50.4	mg/kg	07.23.2020 20:20		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: **DTH** % Moisture:
 Analyst: **DTH** Date Prep: 07.23.2020 15:40 Basis: **Wet Weight**
 Seq Number: 3132510

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	07.23.2020 20:13	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	07.23.2020 20:13	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	07.23.2020 20:13	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	07.23.2020 20:13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	116	%	70-135	07.23.2020 20:13	
o-Terphenyl	84-15-1	115	%	70-135	07.23.2020 20:13	



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Resolute Compliance LLC, Royse City, TX

P.W. Spill

Sample Id: CS 13
Lab Sample Id: 668043-013

Matrix: Soil
Date Collected: 07.23.2020 00:00

Date Received: 07.23.2020 13:13

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 07.23.2020 17:40

Basis: Wet Weight

Seq Number: 3132534

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	07.23.2020 23:47	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	07.23.2020 23:47	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	07.23.2020 23:47	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	07.23.2020 23:47	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	07.23.2020 23:47	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	07.23.2020 23:47	U	1
Total BTEX		<0.00200	0.00200	mg/kg	07.23.2020 23:47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	101	%	70-130	07.23.2020 23:47	
4-Bromofluorobenzene	460-00-4	105	%	70-130	07.23.2020 23:47	



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Resolute Compliance LLC, Royse City, TX

P.W. Spill

Sample Id: **CS 14** Matrix: Soil Date Received: 07.23.2020 13:13
 Lab Sample Id: 668043-014 Date Collected: 07.23.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 07.23.2020 15:12 Basis: Wet Weight
 Seq Number: 3132525

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	356	49.5	mg/kg	07.23.2020 20:37		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 07.23.2020 15:40 Basis: Wet Weight
 Seq Number: 3132510

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	07.23.2020 20:33	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	07.23.2020 20:33	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	07.23.2020 20:33	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	07.23.2020 20:33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	116	%	70-135	07.23.2020 20:33	
o-Terphenyl	84-15-1	115	%	70-135	07.23.2020 20:33	



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Resolute Compliance LLC, Royse City, TX

P.W. Spill

Sample Id: CS 14
Lab Sample Id: 668043-014

Matrix: Soil
Date Collected: 07.23.2020 00:00

Date Received: 07.23.2020 13:13

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 07.23.2020 17:40

Basis: Wet Weight

Seq Number: 3132534

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	07.24.2020 00:08	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	07.24.2020 00:08	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	07.24.2020 00:08	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	07.24.2020 00:08	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	07.24.2020 00:08	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	07.24.2020 00:08	U	1
Total BTEX		<0.00198	0.00198	mg/kg	07.24.2020 00:08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	106	%	70-130	07.24.2020 00:08	
1,4-Difluorobenzene	540-36-3	100	%	70-130	07.24.2020 00:08	



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Resolute Compliance LLC, Royse City, TX

P.W. Spill

Sample Id: CS 15 Matrix: Soil Date Received: 07.23.2020 13:13
 Lab Sample Id: 668043-015 Date Collected: 07.23.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 07.23.2020 15:12 Basis: Wet Weight
 Seq Number: 3132525

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	195	49.6	mg/kg	07.23.2020 20:43		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 07.23.2020 15:40 Basis: Wet Weight
 Seq Number: 3132510

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	07.23.2020 20:54	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	07.23.2020 20:54	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	07.23.2020 20:54	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	07.23.2020 20:54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	110	%	70-135	07.23.2020 20:54	
o-Terphenyl	84-15-1	105	%	70-135	07.23.2020 20:54	



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Resolute Compliance LLC, Royse City, TX

P.W. Spill

Sample Id: CS 15
Lab Sample Id: 668043-015

Matrix: Soil
Date Collected: 07.23.2020 00:00

Date Received: 07.23.2020 13:13

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 07.23.2020 17:40

Basis: Wet Weight

Seq Number: 3132534

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	07.24.2020 00:30	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	07.24.2020 00:30	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	07.24.2020 00:30	U	1
m,p-Xylenes	179601-23-1	0.00500	0.00398	mg/kg	07.24.2020 00:30		1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	07.24.2020 00:30	U	1
Total Xylenes	1330-20-7	0.00500	0.00199	mg/kg	07.24.2020 00:30		1
Total BTEX		0.00500	0.00199	mg/kg	07.24.2020 00:30		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	106	%	70-130	07.24.2020 00:30		
1,4-Difluorobenzene	540-36-3	100	%	70-130	07.24.2020 00:30		



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Resolute Compliance LLC, Royse City, TX

P.W. Spill

Sample Id: **CS 16** Matrix: Soil Date Received: 07.23.2020 13:13
 Lab Sample Id: 668043-016 Date Collected: 07.23.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 07.23.2020 15:12 Basis: Wet Weight
 Seq Number: 3132525

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	352	49.9	mg/kg	07.23.2020 20:48		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 07.23.2020 15:40 Basis: Wet Weight
 Seq Number: 3132510

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	07.23.2020 21:14	U	1
Diesel Range Organics (DRO)	C10C28DRO	53.9	50.2	mg/kg	07.23.2020 21:14		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	07.23.2020 21:14	U	1
Total TPH	PHC635	53.9	50.2	mg/kg	07.23.2020 21:14		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	118	%	70-135	07.23.2020 21:14	
o-Terphenyl	84-15-1	115	%	70-135	07.23.2020 21:14	



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Resolute Compliance LLC, Royse City, TX

P.W. Spill

Sample Id: **CS 16**
Lab Sample Id: 668043-016

Matrix: Soil
Date Collected: 07.23.2020 00:00

Date Received: 07.23.2020 13:13

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 07.23.2020 17:40

Basis: Wet Weight

Seq Number: 3132534

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	07.24.2020 00:51	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	07.24.2020 00:51	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	07.24.2020 00:51	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	07.24.2020 00:51	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	07.24.2020 00:51	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	07.24.2020 00:51	U	1
Total BTEX		<0.00200	0.00200	mg/kg	07.24.2020 00:51	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	102	%	70-130	07.24.2020 00:51		
1,4-Difluorobenzene	540-36-3	100	%	70-130	07.24.2020 00:51		



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Resolute Compliance LLC, Royse City, TX

P.W. Spill

Sample Id: CS 17 Matrix: Soil Date Received: 07.23.2020 13:13
 Lab Sample Id: 668043-017 Date Collected: 07.23.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 07.23.2020 15:12 Basis: Wet Weight
 Seq Number: 3132525

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	373	50.1	mg/kg	07.23.2020 20:54		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 07.23.2020 15:40 Basis: Wet Weight
 Seq Number: 3132510

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	07.23.2020 21:35	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	07.23.2020 21:35	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	07.23.2020 21:35	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	07.23.2020 21:35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	115	%	70-135	07.23.2020 21:35	
o-Terphenyl	84-15-1	113	%	70-135	07.23.2020 21:35	



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Resolute Compliance LLC, Royse City, TX

P.W. Spill

Sample Id: CS 17
Lab Sample Id: 668043-017

Matrix: Soil
Date Collected: 07.23.2020 00:00

Date Received: 07.23.2020 13:13

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 07.23.2020 17:40

Basis: Wet Weight

Seq Number: 3132534

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	07.24.2020 01:13	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	07.24.2020 01:13	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	07.24.2020 01:13	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	07.24.2020 01:13	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	07.24.2020 01:13	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	07.24.2020 01:13	U	1
Total BTEX		<0.00202	0.00202	mg/kg	07.24.2020 01:13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	100	%	70-130	07.24.2020 01:13	
4-Bromofluorobenzene	460-00-4	105	%	70-130	07.24.2020 01:13	



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Resolute Compliance LLC, Royse City, TX

P.W. Spill

Sample Id: **CS 18** Matrix: Soil Date Received: 07.23.2020 13:13
 Lab Sample Id: 668043-018 Date Collected: 07.23.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 07.23.2020 15:12 Basis: Wet Weight
 Seq Number: 3132525

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	299	49.8	mg/kg	07.23.2020 20:59		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 07.23.2020 15:40 Basis: Wet Weight
 Seq Number: 3132510

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	07.23.2020 21:55	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	07.23.2020 21:55	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	07.23.2020 21:55	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	07.23.2020 21:55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	114	%	70-135	07.23.2020 21:55	
o-Terphenyl	84-15-1	105	%	70-135	07.23.2020 21:55	



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Resolute Compliance LLC, Royse City, TX

P.W. Spill

Sample Id: **CS 18**
Lab Sample Id: 668043-018

Matrix: Soil
Date Collected: 07.23.2020 00:00

Date Received: 07.23.2020 13:13

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 07.23.2020 17:40

Basis: Wet Weight

Seq Number: 3132534

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	07.24.2020 01:34	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	07.24.2020 01:34	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	07.24.2020 01:34	U	1
m,p-Xylenes	179601-23-1	0.00586	0.00400	mg/kg	07.24.2020 01:34		1
o-Xylene	95-47-6	0.00231	0.00200	mg/kg	07.24.2020 01:34		1
Total Xylenes	1330-20-7	0.00817	0.00200	mg/kg	07.24.2020 01:34		1
Total BTEX		0.00817	0.00200	mg/kg	07.24.2020 01:34		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	100	%	70-130	07.24.2020 01:34	
4-Bromofluorobenzene	460-00-4	104	%	70-130	07.24.2020 01:34	



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Resolute Compliance LLC, Royse City, TX

P.W. Spill

Sample Id: **CS 19** Matrix: Soil Date Received: 07.23.2020 13:13
 Lab Sample Id: 668043-019 Date Collected: 07.23.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 07.23.2020 15:12 Basis: Wet Weight
 Seq Number: 3132525

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	229	49.9	mg/kg	07.23.2020 21:05		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 07.23.2020 15:40 Basis: Wet Weight
 Seq Number: 3132510

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	07.23.2020 22:16	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	07.23.2020 22:16	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	07.23.2020 22:16	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	07.23.2020 22:16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	113	%	70-135	07.23.2020 22:16	
o-Terphenyl	84-15-1	103	%	70-135	07.23.2020 22:16	



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Resolute Compliance LLC, Royse City, TX

P.W. Spill

Sample Id: **CS 19**
Lab Sample Id: 668043-019

Matrix: Soil
Date Collected: 07.23.2020 00:00

Date Received: 07.23.2020 13:13

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 07.23.2020 17:40

Basis: Wet Weight

Seq Number: 3132534

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	07.24.2020 01:56	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	07.24.2020 01:56	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	07.24.2020 01:56	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	07.24.2020 01:56	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	07.24.2020 01:56	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	07.24.2020 01:56	U	1
Total BTEX		<0.00201	0.00201	mg/kg	07.24.2020 01:56	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	103	%	70-130	07.24.2020 01:56		
1,4-Difluorobenzene	540-36-3	100	%	70-130	07.24.2020 01:56		



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Resolute Compliance LLC, Royse City, TX

P.W. Spill

Sample Id: **CS 20** Matrix: Soil Date Received: 07.23.2020 13:13
 Lab Sample Id: 668043-020 Date Collected: 07.23.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 07.23.2020 15:12 Basis: Wet Weight
 Seq Number: 3132525

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	92.6	49.7	mg/kg	07.23.2020 21:11		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 07.23.2020 15:40 Basis: Wet Weight
 Seq Number: 3132510

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	07.23.2020 22:36	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	07.23.2020 22:36	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	07.23.2020 22:36	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	07.23.2020 22:36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	115	%	70-135	07.23.2020 22:36	
o-Terphenyl	84-15-1	108	%	70-135	07.23.2020 22:36	



Certificate of Analytical Results 668043

Resolute Compliance LLC, Royse City, TX

P.W. Spill

Sample Id: **CS 20**
Lab Sample Id: 668043-020

Matrix: Soil
Date Collected: 07.23.2020 00:00

Date Received: 07.23.2020 13:13

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 07.23.2020 17:40

Basis: Wet Weight

Seq Number: 3132534

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	07.24.2020 11:10	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	07.24.2020 11:10	U	1
Ethylbenzene	100-41-4	0.00432	0.00199	mg/kg	07.24.2020 11:10		1
m,p-Xylenes	179601-23-1	0.0211	0.00398	mg/kg	07.24.2020 11:10		1
o-Xylene	95-47-6	0.00739	0.00199	mg/kg	07.24.2020 11:10		1
Total Xylenes	1330-20-7	0.0285	0.00199	mg/kg	07.24.2020 11:10		1
Total BTEX		0.0328	0.00199	mg/kg	07.24.2020 11:10		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	100	%	70-130	07.24.2020 11:10		
4-Bromofluorobenzene	460-00-4	103	%	70-130	07.24.2020 11:10		



Certificate of Analytical Results 668043

Resolute Compliance LLC, Royse City, TX

P.W. Spill

Sample Id: CS 21 Matrix: Soil Date Received: 07.23.2020 13:13
 Lab Sample Id: 668043-021 Date Collected: 07.23.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 07.23.2020 16:37 Basis: Wet Weight
 Seq Number: 3132527

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	228	49.5	mg/kg	07.23.2020 21:44		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 07.23.2020 15:40 Basis: Wet Weight
 Seq Number: 3132510

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	07.23.2020 22:57	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	07.23.2020 22:57	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	07.23.2020 22:57	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	07.23.2020 22:57	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	114	%	70-135	07.23.2020 22:57	
o-Terphenyl	84-15-1	100	%	70-135	07.23.2020 22:57	



Certificate of Analytical Results 668043

Resolute Compliance LLC, Royse City, TX

P.W. Spill

Sample Id: CS 21
Lab Sample Id: 668043-021

Matrix: Soil
Date Collected: 07.23.2020 00:00

Date Received: 07.23.2020 13:13

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 07.23.2020 16:44

Basis: Wet Weight

Seq Number: 3132550

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	07.24.2020 05:48	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	07.24.2020 05:48	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	07.24.2020 05:48	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	07.24.2020 05:48	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	07.24.2020 05:48	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	07.24.2020 05:48	U	1
Total BTEX		<0.00202	0.00202	mg/kg	07.24.2020 05:48	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	97	%	70-130	07.24.2020 05:48		
4-Bromofluorobenzene	460-00-4	91	%	70-130	07.24.2020 05:48		



Certificate of Analytical Results 668043

Resolute Compliance LLC, Royse City, TX

P.W. Spill

Sample Id: CS 22 Matrix: Soil Date Received: 07.23.2020 13:13
 Lab Sample Id: 668043-022 Date Collected: 07.23.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 07.23.2020 16:37 Basis: Wet Weight
 Seq Number: 3132527

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	108	49.4	mg/kg	07.23.2020 22:01		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 07.23.2020 15:40 Basis: Wet Weight
 Seq Number: 3132510

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	07.23.2020 23:17	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	07.23.2020 23:17	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	07.23.2020 23:17	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	07.23.2020 23:17	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	116	%	70-135	07.23.2020 23:17	
o-Terphenyl	84-15-1	116	%	70-135	07.23.2020 23:17	



Certificate of Analytical Results 668043

Resolute Compliance LLC, Royse City, TX

P.W. Spill

Sample Id: CS 22
Lab Sample Id: 668043-022

Matrix: Soil
Date Collected: 07.23.2020 00:00

Date Received: 07.23.2020 13:13

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 07.23.2020 16:44

Basis: Wet Weight

Seq Number: 3132550

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	07.24.2020 06:15	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	07.24.2020 06:15	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	07.24.2020 06:15	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	07.24.2020 06:15	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	07.24.2020 06:15	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	07.24.2020 06:15	U	1
Total BTEX		<0.00201	0.00201	mg/kg	07.24.2020 06:15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	99	%	70-130	07.24.2020 06:15	
1,4-Difluorobenzene	540-36-3	100	%	70-130	07.24.2020 06:15	



Certificate of Analytical Results 668043

Resolute Compliance LLC, Royse City, TX

P.W. Spill

Sample Id: CS 23 Matrix: Soil Date Received: 07.23.2020 13:13
 Lab Sample Id: 668043-023 Date Collected: 07.23.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 07.23.2020 16:37 Basis: Wet Weight
 Seq Number: 3132527

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	94.7	49.7	mg/kg	07.23.2020 22:06		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 07.23.2020 17:10 Basis: Wet Weight
 Seq Number: 3132505

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	07.23.2020 22:36	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	07.23.2020 22:36	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	07.23.2020 22:36	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	07.23.2020 22:36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	104	%	70-135	07.23.2020 22:36	
o-Terphenyl	84-15-1	100	%	70-135	07.23.2020 22:36	



Certificate of Analytical Results 668043

Resolute Compliance LLC, Royse City, TX

P.W. Spill

Sample Id: CS 23
Lab Sample Id: 668043-023

Matrix: Soil
Date Collected: 07.23.2020 00:00

Date Received: 07.23.2020 13:13

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 07.23.2020 16:44

Basis: Wet Weight

Seq Number: 3132550

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	07.24.2020 06:36	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	07.24.2020 06:36	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	07.24.2020 06:36	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	07.24.2020 06:36	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	07.24.2020 06:36	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	07.24.2020 06:36	U	1
Total BTEX		<0.00200	0.00200	mg/kg	07.24.2020 06:36	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	105	%	70-130	07.24.2020 06:36		
1,4-Difluorobenzene	540-36-3	101	%	70-130	07.24.2020 06:36		



Certificate of Analytical Results 668043

Resolute Compliance LLC, Royse City, TX

P.W. Spill

Sample Id: CS 24 Matrix: Soil Date Received: 07.23.2020 13:13
 Lab Sample Id: 668043-024 Date Collected: 07.23.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 07.23.2020 16:37 Basis: Wet Weight
 Seq Number: 3132527

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	262	49.6	mg/kg	07.23.2020 22:12		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 07.23.2020 17:10 Basis: Wet Weight
 Seq Number: 3132505

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	07.23.2020 23:37	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	07.23.2020 23:37	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	07.23.2020 23:37	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	07.23.2020 23:37	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-135	07.23.2020 23:37	
o-Terphenyl	84-15-1	89	%	70-135	07.23.2020 23:37	



Certificate of Analytical Results 668043

Resolute Compliance LLC, Royse City, TX

P.W. Spill

Sample Id: CS 24
Lab Sample Id: 668043-024

Matrix: Soil
Date Collected: 07.23.2020 00:00

Date Received: 07.23.2020 13:13

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 07.23.2020 16:44

Basis: Wet Weight

Seq Number: 3132550

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	07.24.2020 06:58	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	07.24.2020 06:58	U	1
Ethylbenzene	100-41-4	0.00303	0.00198	mg/kg	07.24.2020 06:58		1
m,p-Xylenes	179601-23-1	0.0147	0.00397	mg/kg	07.24.2020 06:58		1
o-Xylene	95-47-6	0.00611	0.00198	mg/kg	07.24.2020 06:58		1
Total Xylenes	1330-20-7	0.0208	0.00198	mg/kg	07.24.2020 06:58		1
Total BTEX		0.0238	0.00198	mg/kg	07.24.2020 06:58		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	107	%	70-130	07.24.2020 06:58		
1,4-Difluorobenzene	540-36-3	101	%	70-130	07.24.2020 06:58		



Certificate of Analytical Results 668043

Resolute Compliance LLC, Royse City, TX

P.W. Spill

Sample Id: CS 25 Matrix: Soil Date Received: 07.23.2020 13:13
 Lab Sample Id: 668043-025 Date Collected: 07.23.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 07.23.2020 16:37 Basis: Wet Weight
 Seq Number: 3132527

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	303	49.4	mg/kg	07.23.2020 22:17		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 07.23.2020 17:10 Basis: Wet Weight
 Seq Number: 3132505

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	07.23.2020 23:57	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	07.23.2020 23:57	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	07.23.2020 23:57	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	07.23.2020 23:57	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-135	07.23.2020 23:57	
o-Terphenyl	84-15-1	99	%	70-135	07.23.2020 23:57	



Certificate of Analytical Results 668043

Resolute Compliance LLC, Royse City, TX

P.W. Spill

Sample Id: CS 25
Lab Sample Id: 668043-025

Matrix: Soil
Date Collected: 07.23.2020 00:00

Date Received: 07.23.2020 13:13

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 07.23.2020 16:44

Basis: Wet Weight

Seq Number: 3132550

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	07.24.2020 12:15	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	07.24.2020 12:15	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	07.24.2020 12:15	U	1
m,p-Xylenes	179601-23-1	0.00822	0.00403	mg/kg	07.24.2020 12:15		1
o-Xylene	95-47-6	0.00325	0.00202	mg/kg	07.24.2020 12:15		1
Total Xylenes	1330-20-7	0.0115	0.00202	mg/kg	07.24.2020 12:15		1
Total BTEX		0.0115	0.00202	mg/kg	07.24.2020 12:15		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	99	%	70-130	07.24.2020 12:15	
4-Bromofluorobenzene	460-00-4	103	%	70-130	07.24.2020 12:15	



Certificate of Analytical Results 668043

Resolute Compliance LLC, Royse City, TX

P.W. Spill

Sample Id: CS 26 Matrix: Soil Date Received: 07.23.2020 13:13
 Lab Sample Id: 668043-026 Date Collected: 07.23.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 07.23.2020 16:37 Basis: Wet Weight
 Seq Number: 3132527

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	333	50.0	mg/kg	07.23.2020 22:34		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 07.23.2020 17:10 Basis: Wet Weight
 Seq Number: 3132505

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	07.24.2020 00:18	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	07.24.2020 00:18	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	07.24.2020 00:18	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	07.24.2020 00:18	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	98	%	70-135	07.24.2020 00:18	
o-Terphenyl	84-15-1	95	%	70-135	07.24.2020 00:18	



Certificate of Analytical Results 668043

Resolute Compliance LLC, Royse City, TX

P.W. Spill

Sample Id: CS 26
Lab Sample Id: 668043-026

Matrix: Soil
Date Collected: 07.23.2020 00:00

Date Received: 07.23.2020 13:13

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 07.23.2020 16:44

Basis: Wet Weight

Seq Number: 3132550

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	07.24.2020 07:40	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	07.24.2020 07:40	U	1
Ethylbenzene	100-41-4	0.00204	0.00200	mg/kg	07.24.2020 07:40		1
m,p-Xylenes	179601-23-1	0.0105	0.00401	mg/kg	07.24.2020 07:40		1
o-Xylene	95-47-6	0.00454	0.00200	mg/kg	07.24.2020 07:40		1
Total Xylenes	1330-20-7	0.0150	0.00200	mg/kg	07.24.2020 07:40		1
Total BTEX		0.0171	0.00200	mg/kg	07.24.2020 07:40		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	105	%	70-130	07.24.2020 07:40		
1,4-Difluorobenzene	540-36-3	100	%	70-130	07.24.2020 07:40		



Certificate of Analytical Results 668043

Resolute Compliance LLC, Royse City, TX

P.W. Spill

Sample Id: CS 27 Matrix: Soil Date Received: 07.23.2020 13:13
 Lab Sample Id: 668043-027 Date Collected: 07.23.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 07.23.2020 16:37 Basis: Wet Weight
 Seq Number: 3132527

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	106	49.5	mg/kg	07.23.2020 22:40		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 07.23.2020 17:10 Basis: Wet Weight
 Seq Number: 3132505

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	07.24.2020 00:38	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	07.24.2020 00:38	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	07.24.2020 00:38	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	07.24.2020 00:38	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	104	%	70-135	07.24.2020 00:38	
o-Terphenyl	84-15-1	100	%	70-135	07.24.2020 00:38	



Certificate of Analytical Results 668043

Resolute Compliance LLC, Royse City, TX

P.W. Spill

Sample Id: CS 27
Lab Sample Id: 668043-027

Matrix: Soil
Date Collected: 07.23.2020 00:00

Date Received: 07.23.2020 13:13

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 07.23.2020 16:44

Basis: Wet Weight

Seq Number: 3132550

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	07.24.2020 08:02	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	07.24.2020 08:02	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	07.24.2020 08:02	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	07.24.2020 08:02	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	07.24.2020 08:02	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	07.24.2020 08:02	U	1
Total BTEX		<0.00202	0.00202	mg/kg	07.24.2020 08:02	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	101	%	70-130	07.24.2020 08:02		
4-Bromofluorobenzene	460-00-4	108	%	70-130	07.24.2020 08:02		



Certificate of Analytical Results 668043

Resolute Compliance LLC, Royse City, TX

P.W. Spill

Sample Id: **STP 1** Matrix: Soil Date Received: 07.23.2020 13:13
 Lab Sample Id: 668043-028 Date Collected: 07.23.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 07.23.2020 16:37 Basis: Wet Weight
 Seq Number: 3132527

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	78.7	49.9	mg/kg	07.23.2020 22:45		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 07.23.2020 17:10 Basis: Wet Weight
 Seq Number: 3132505

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	07.24.2020 00:59	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	07.24.2020 00:59	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	07.24.2020 00:59	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	07.24.2020 00:59	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-135	07.24.2020 00:59	
o-Terphenyl	84-15-1	87	%	70-135	07.24.2020 00:59	



Certificate of Analytical Results 668043

Resolute Compliance LLC, Royse City, TX

P.W. Spill

Sample Id: **STP 1**
Lab Sample Id: 668043-028

Matrix: Soil
Date Collected: 07.23.2020 00:00

Date Received: 07.23.2020 13:13

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 07.23.2020 16:44

Basis: Wet Weight

Seq Number: 3132550

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	07.24.2020 08:23	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	07.24.2020 08:23	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	07.24.2020 08:23	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	07.24.2020 08:23	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	07.24.2020 08:23	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	07.24.2020 08:23	U	1
Total BTEX		<0.00202	0.00202	mg/kg	07.24.2020 08:23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	102	%	70-130	07.24.2020 08:23	
4-Bromofluorobenzene	460-00-4	107	%	70-130	07.24.2020 08:23	



Certificate of Analytical Results 668043

Resolute Compliance LLC, Royse City, TX

P.W. Spill

Sample Id: **STP 2** Matrix: Soil Date Received: 07.23.2020 13:13
 Lab Sample Id: 668043-029 Date Collected: 07.23.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 07.23.2020 16:37 Basis: Wet Weight
 Seq Number: 3132527

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	67.4	49.7	mg/kg	07.23.2020 22:51		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 07.23.2020 17:10 Basis: Wet Weight
 Seq Number: 3132505

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	07.24.2020 01:20	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	07.24.2020 01:20	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	07.24.2020 01:20	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	07.24.2020 01:20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-135	07.24.2020 01:20	
o-Terphenyl	84-15-1	80	%	70-135	07.24.2020 01:20	



Certificate of Analytical Results 668043

Resolute Compliance LLC, Royse City, TX

P.W. Spill

Sample Id: **STP 2**
Lab Sample Id: 668043-029

Matrix: Soil
Date Collected: 07.23.2020 00:00

Date Received: 07.23.2020 13:13

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 07.23.2020 16:44

Basis: Wet Weight

Seq Number: 3132550

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	07.24.2020 08:45	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	07.24.2020 08:45	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	07.24.2020 08:45	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	07.24.2020 08:45	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	07.24.2020 08:45	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	07.24.2020 08:45	U	1
Total BTEX		<0.00200	0.00200	mg/kg	07.24.2020 08:45	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	103	%	70-130	07.24.2020 08:45	
4-Bromofluorobenzene	460-00-4	108	%	70-130	07.24.2020 08:45	



Certificate of Analytical Results 668043

Resolute Compliance LLC, Royse City, TX

P.W. Spill

Sample Id: **STP 3** Matrix: Soil Date Received: 07.23.2020 13:13
 Lab Sample Id: 668043-030 Date Collected: 07.23.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 07.23.2020 16:37 Basis: Wet Weight
 Seq Number: 3132527

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	97.6	49.9	mg/kg	07.23.2020 22:56		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 07.23.2020 17:10 Basis: Wet Weight
 Seq Number: 3132505

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	07.24.2020 01:40	U	1
Diesel Range Organics (DRO)	C10C28DRO	381	49.9	mg/kg	07.24.2020 01:40		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	194	49.9	mg/kg	07.24.2020 01:40		1
Total TPH	PHC635	575	49.9	mg/kg	07.24.2020 01:40		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	108	%	70-135	07.24.2020 01:40	
o-Terphenyl	84-15-1	80	%	70-135	07.24.2020 01:40	



Certificate of Analytical Results 668043

Resolute Compliance LLC, Royse City, TX

P.W. Spill

Sample Id: **STP 3**
Lab Sample Id: 668043-030

Matrix: Soil
Date Collected: 07.23.2020 00:00

Date Received: 07.23.2020 13:13

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 07.23.2020 16:44

Basis: Wet Weight

Seq Number: 3132550

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	07.24.2020 09:07	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	07.24.2020 09:07	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	07.24.2020 09:07	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	07.24.2020 09:07	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	07.24.2020 09:07	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	07.24.2020 09:07	U	1
Total BTEX		<0.00198	0.00198	mg/kg	07.24.2020 09:07	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	109	%	70-130	07.24.2020 09:07	
1,4-Difluorobenzene	540-36-3	102	%	70-130	07.24.2020 09:07	

Flagging Criteria

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

** Surrogate recovered outside laboratory control limit.

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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



Resolute Compliance LLC

P.W. Spill

Analytical Method: Chloride by EPA 300

Seq Number: 3132525

MB Sample Id: 7707976-1-BLK

Matrix: Solid

LCS Sample Id: 7707976-1-BKS

Prep Method: E300P

Date Prep: 07.23.2020

LCSD Sample Id: 7707976-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	264	106	273	109	90-110	3	20	mg/kg	07.23.2020 18:29	

Analytical Method: Chloride by EPA 300

Seq Number: 3132527

MB Sample Id: 7707993-1-BLK

Matrix: Solid

LCS Sample Id: 7707993-1-BKS

Prep Method: E300P

Date Prep: 07.23.2020

LCSD Sample Id: 7707993-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	264	106	273	109	90-110	3	20	mg/kg	07.23.2020 21:33	

Analytical Method: Chloride by EPA 300

Seq Number: 3132525

Parent Sample Id: 668043-001

Matrix: Soil

MS Sample Id: 668043-001 S

Prep Method: E300P

Date Prep: 07.23.2020

MSD Sample Id: 668043-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	150	200	356	103	356	103	90-110	0	20	mg/kg	07.23.2020 18:46	

Analytical Method: Chloride by EPA 300

Seq Number: 3132525

Parent Sample Id: 668043-011

Matrix: Soil

MS Sample Id: 668043-011 S

Prep Method: E300P

Date Prep: 07.23.2020

MSD Sample Id: 668043-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	196	200	393	99	394	99	90-110	0	20	mg/kg	07.23.2020 20:04	

Analytical Method: Chloride by EPA 300

Seq Number: 3132527

Parent Sample Id: 668043-021

Matrix: Soil

MS Sample Id: 668043-021 S

Prep Method: E300P

Date Prep: 07.23.2020

MSD Sample Id: 668043-021 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	228	199	437	105	432	103	90-110	1	20	mg/kg	07.23.2020 21:50	

Analytical Method: Chloride by EPA 300

Seq Number: 3132527

Parent Sample Id: 668056-001

Matrix: Soil

MS Sample Id: 668056-001 S

Prep Method: E300P

Date Prep: 07.23.2020

MSD Sample Id: 668056-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	78.3	201	289	105	289	105	90-110	0	20	mg/kg	07.23.2020 23:08	

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

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

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

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

Resolute Compliance LLC

P.W. Spill

Analytical Method: TPH By SW8015 Mod

Seq Number: 3132503

MB Sample Id: 7707980-1-BLK

Matrix: Solid

LCS Sample Id: 7707980-1-BKS

Prep Method: SW8015P

Date Prep: 07.23.2020

LCSD Sample Id: 7707980-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	942	94	984	98	70-135	4	35	mg/kg	07.23.2020 12:50	
Diesel Range Organics (DRO)	<50.0	1000	1050	105	1110	111	70-135	6	35	mg/kg	07.23.2020 12:50	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag		LCSD %Rec	LCSD Flag		Limits	Units	Analysis Date	
1-Chlorooctane	116		123			124			70-135	%	07.23.2020 12:50	
o-Terphenyl	122		111			120			70-135	%	07.23.2020 12:50	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3132510

MB Sample Id: 7707986-1-BLK

Matrix: Solid

LCS Sample Id: 7707986-1-BKS

Prep Method: SW8015P

Date Prep: 07.23.2020

LCSD Sample Id: 7707986-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1000	100	1040	104	70-135	4	35	mg/kg	07.23.2020 12:50	
Diesel Range Organics (DRO)	<50.0	1000	1090	109	1170	117	70-135	7	35	mg/kg	07.23.2020 12:50	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date	Flag		
1-Chlorooctane	123		121		129		70-135	%	07.23.2020 12:50			
o-Terphenyl	120		114		127		70-135	%	07.23.2020 12:50			

Analytical Method: TPH By SW8015 Mod

Seq Number: 3132505

MB Sample Id: 7707984-1-BLK

Matrix: Solid

LCS Sample Id: 7707984-1-BKS

Prep Method: SW8015P

Date Prep: 07.23.2020

LCSD Sample Id: 7707984-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	950	95	988	99	70-135	4	35	mg/kg	07.23.2020 21:55	
Diesel Range Organics (DRO)	<50.0	1000	1120	112	1160	116	70-135	4	35	mg/kg	07.23.2020 21:55	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag		LCSD %Rec	LCSD Flag		Limits	Units	Analysis Date	
1-Chlorooctane	113		127			126			70-135	%	07.23.2020 21:55	
o-Terphenyl	121		119			126			70-135	%	07.23.2020 21:55	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3132503

Matrix: Solid
MB Sample Id: 7707980-1-BLK

Prep Method: SW8015P

Date Prep: 07.23.2020

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	07.23.2020 12:30	

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

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

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

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

Resolute Compliance LLC

P.W. Spill

Analytical Method: TPH By SW8015 Mod

Seq Number: 3132510

Matrix: Solid

Prep Method: SW8015P

Date Prep: 07.23.2020

MB Sample Id: 7707986-1-BLK

Parameter

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	07.23.2020 12:30	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3132505

Matrix: Solid

Prep Method: SW8015P

Date Prep: 07.23.2020

MB Sample Id: 7707984-1-BLK

Parameter

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	07.23.2020 21:35	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3132503

Matrix: Soil

Prep Method: SW8015P

Date Prep: 07.23.2020

Parent Sample Id: 667958-001

MS Sample Id: 667958-001 S

MSD Sample Id: 667958-001 SD

Parameter

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.1	1000	977	98	986	98	70-135	1	35	mg/kg	07.23.2020 13:50	
Diesel Range Organics (DRO)	<50.1	1000	1070	107	1090	108	70-135	2	35	mg/kg	07.23.2020 13:50	

Surrogate

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	128		127		70-135	%	07.23.2020 13:50
o-Terphenyl	116		119		70-135	%	07.23.2020 13:50

Analytical Method: TPH By SW8015 Mod

Seq Number: 3132510

Matrix: Soil

Prep Method: SW8015P

Date Prep: 07.23.2020

Parent Sample Id: 668043-003

MS Sample Id: 668043-003 S

MSD Sample Id: 668043-003 SD

Parameter

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1040	104	960	96	70-135	8	35	mg/kg	07.23.2020 16:11	
Diesel Range Organics (DRO)	<50.0	1000	1120	112	1050	105	70-135	6	35	mg/kg	07.23.2020 16:11	

Surrogate

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	131		129		70-135	%	07.23.2020 16:11
o-Terphenyl	119		112		70-135	%	07.23.2020 16:11

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

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

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

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

Resolute Compliance LLC

P.W. Spill

Analytical Method: TPH By SW8015 Mod

Seq Number: 3132505

Parent Sample Id: 668043-023

Matrix: Soil

MS Sample Id: 668043-023 S

Prep Method: SW8015P

Date Prep: 07.23.2020

MSD Sample Id: 668043-023 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.1	1000	1090	109	977	97	70-135	11	35	mg/kg	07.23.2020 22:57	
Diesel Range Organics (DRO)	<50.1	1000	1140	114	1140	113	70-135	0	35	mg/kg	07.23.2020 22:57	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	131		129		70-135	%	07.23.2020 22:57
o-Terphenyl	122		114		70-135	%	07.23.2020 22:57

Analytical Method: BTEX by EPA 8021B

Seq Number: 3132550

MB Sample Id: 7707995-1-BLK

Matrix: Solid

LCS Sample Id: 7707995-1-BKS

Prep Method: SW5035A

Date Prep: 07.23.2020

LCSD Sample Id: 7707995-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.103	103	0.107	107	70-130	4	35	mg/kg	07.24.2020 03:55	
Toluene	<0.00200	0.100	0.0964	96	0.101	101	70-130	5	35	mg/kg	07.24.2020 03:55	
Ethylbenzene	<0.00200	0.100	0.0893	89	0.0934	93	71-129	4	35	mg/kg	07.24.2020 03:55	
m,p-Xylenes	<0.00400	0.200	0.179	90	0.189	95	70-135	5	35	mg/kg	07.24.2020 03:55	
o-Xylene	<0.00200	0.100	0.0878	88	0.0943	94	71-133	7	35	mg/kg	07.24.2020 03:55	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	97		97		99		70-130	%	07.24.2020 03:55
4-Bromofluorobenzene	89		95		102		70-130	%	07.24.2020 03:55

Analytical Method: BTEX by EPA 8021B

Seq Number: 3132534

MB Sample Id: 7707994-1-BLK

Matrix: Solid

LCS Sample Id: 7707994-1-BKS

Prep Method: SW5035A

Date Prep: 07.23.2020

LCSD Sample Id: 7707994-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.112	112	0.106	106	70-130	6	35	mg/kg	07.23.2020 16:36	
Toluene	<0.00200	0.100	0.107	107	0.101	101	70-130	6	35	mg/kg	07.23.2020 16:36	
Ethylbenzene	<0.00200	0.100	0.101	101	0.0946	95	71-129	7	35	mg/kg	07.23.2020 16:36	
m,p-Xylenes	<0.00400	0.200	0.205	103	0.193	97	70-135	6	35	mg/kg	07.23.2020 16:36	
o-Xylene	<0.00200	0.100	0.101	101	0.0949	95	71-133	6	35	mg/kg	07.23.2020 16:36	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	99		101		99		70-130	%	07.23.2020 16:36
4-Bromofluorobenzene	98		101		101		70-130	%	07.23.2020 16:36

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

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

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

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

Resolute Compliance LLC

P.W. Spill

Analytical Method: BTEX by EPA 8021B

Seq Number: 3132550

Parent Sample Id: 668043-021

Matrix: Soil

MS Sample Id: 668043-021 S

Prep Method: SW5035A

Date Prep: 07.23.2020

MSD Sample Id: 668043-021 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00201	0.100	0.0956	96	0.103	102	70-130	7	35	mg/kg	07.24.2020 04:37	
Toluene	<0.00201	0.100	0.0894	89	0.0982	97	70-130	9	35	mg/kg	07.24.2020 04:37	
Ethylbenzene	<0.00201	0.100	0.0837	84	0.0930	92	71-129	11	35	mg/kg	07.24.2020 04:37	
m,p-Xylenes	<0.00402	0.201	0.170	85	0.191	95	70-135	12	35	mg/kg	07.24.2020 04:37	
o-Xylene	<0.00201	0.100	0.0822	82	0.0912	90	71-133	10	35	mg/kg	07.24.2020 04:37	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	99		100		70-130	%	07.24.2020 04:37
4-Bromofluorobenzene	104		106		70-130	%	07.24.2020 04:37

Analytical Method: BTEX by EPA 8021B

Seq Number: 3132534

Parent Sample Id: 668043-001

Matrix: Soil

MS Sample Id: 668043-001 S

Prep Method: SW5035A

Date Prep: 07.23.2020

MSD Sample Id: 668043-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.118	118	0.101	101	70-130	16	35	mg/kg	07.23.2020 17:19	
Toluene	<0.00200	0.100	0.112	112	0.0940	94	70-130	17	35	mg/kg	07.23.2020 17:19	
Ethylbenzene	<0.00200	0.100	0.0981	98	0.0826	83	71-129	17	35	mg/kg	07.23.2020 17:19	
m,p-Xylenes	<0.00401	0.200	0.201	101	0.162	81	70-135	21	35	mg/kg	07.23.2020 17:19	
o-Xylene	<0.00200	0.100	0.0971	97	0.0780	78	71-133	22	35	mg/kg	07.23.2020 17:19	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	99		99		70-130	%	07.23.2020 17:19
4-Bromofluorobenzene	101		102		70-130	%	07.23.2020 17:19

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

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

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

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



Chain of Custody

Work Order No: 1631/245.1/7470/7471

1631/245.1/7470/7471

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334
 Midland, TX (432) 704-5440 El Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
 Phoenix, AZ (480) 355-0900 Atlanta, GA (770) 449-8900 Tampa, FL (813) 620-2000 West Palm Beach, FL (561) 689-6701

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Page 1 of 3

Project Manager:	Jane's Vanassche	Bill to: (if different)	
Company Name:	Redute	Company Name:	
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:	(517) 244-2598	Email:	va.resolve@compliance.com

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

Project Name:	P.W. Spill	Turn Around	☐	Pres. Code	
Project Number:		Routine	☐		
Project Location:	Carlsbad	Rush:	3D		
Sampler's Name:	Juan Garcia	Due Date:			
PO #:		Quote #:			

SAMPLE RECEIPT		Temp Blank:	Yes ☐ No ☒	Wet Ice:	Yes ☐ No ☒
Temperature (°C):	19.8	Thermometer ID	T-M-007		
Received Intact:	Yes ☒ No ☐	Correction Factor:	-0.2		
Cooler Custody Seals:	Yes ☐ No ☒ N/A	Total Containers:	30		
Sample Custody Seals:	Yes ☐ No ☒ N/A				

Lab ID	Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	ANALYSIS REQUEST																Preservative Codes
CS 1		S	7-23			As	X															MeOH: Me
CS 2						Pb	X															None: NO
CS 3						Cd	X															HNO3: HN
CS 4						Cr	X															H2SO4: H2
CS 5						Cu	X															HCL: HL
CS 6						Pb	X															NaOH: Na
CS 7						Mn	X															Zn Acetate+ NaOH: Zn
CS 8						Mo	X															TAT starts the day received by the lab, if received by 4:00pm
CS 9						Ni	X															Sample Comments
CS 10						K	X															

Total 200.7 / 6010 200.8 / 6020:

8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn

1631 / 245.1 / 7470 / 7471 : Hg

Circle Method(s) and Metal(s) to be analyzed

TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	7/23/20 1:31			
		4			
		6			



Chain of Custody

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334

Midland, TX (432) 704-5440 EL Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296 Crashtad, NM (432) 704-5440
Phoenix, AZ (480) 355-0900 Atlanta, GA (770) 449-8800 Tampa, FL (813) 620-2000 West Palm Beach, FL (561) 689-6701

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Page 2 of 3

Work Order No:

W08043

Project Manager:	James VanAssche	Bill to: (if different)	
Company Name:	Resolute	Company Name:	
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:	(517) 214-2598	Email:	

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

Project Name:	Turn Around
Project Number:	Routine ☐
Project Location:	Rush: 310
Sampler's Name:	Due Date:
PO #:	Quote #:

SAMPLE RECEIPT	
Temperature (°C):	Temp Blank: Yes No
Received Intact:	Wet Ice: Yes No
Cooler Custody Seals:	Correction Factor:
Sample Custody Seals:	Total Containers:

Lab ID	Sample Identification	Matrix	Date Sampled	Time Sampled	Depth
--------	-----------------------	--------	--------------	--------------	-------

CS 11	5	7-23			
CS 12					
CS 13					
CS 14					
CS 15					
CS 16					
CS 17					
CS 18					
CS 19					
CS 20					

Total 200.7 / 6010 200.8 / 6020:

Circle Method(s) and Metal(s) to be analyzed

8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn
TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U

1631 / 245.1 / 7470 / 7471 : Hg

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>Justin</i>	<i>Allen</i>	1/23/20 13:3			2
					4
					6



Chain of Custody

Work Order No: 1631/245.1/7470/7471

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334

Midland, TX (432) 704-5440 El Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296 Casabad, NM (432) 704-5440
Phoenix, AZ (480) 365-0900 Atlanta, GA (770) 449-8800 Tampa, FL (813) 620-2000 West Palm Beach, FL (561) 689-6701

www.xenco.com Page 3 of 3

Project Manager:	<u>Tamara Van Dyke</u>	Bill to: (if different)	
Company Name:	<u>Resolute</u>	Company Name:	
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:		Email:	

Project Name:		Turn Around	
Project Number:		Routine ☐	Pres. Code
Project Location:		Rush: <u>30</u>	
Sampler's Name:		Due Date:	
PO #:		Quote #:	

SAMPLE RECEIPT		Temp Blank:	Yes ☐ No ☒	Wet Ice:	Yes ☒ No ☐
Temperature (°C):	<u>21.19.8</u>	Received In tact:	Yes ☒ No ☐	Thermometer ID	
Cooler Custody Seals:	Yes ☒ No ☐ N/A	Correction Factor:			
Sample Custody Seals:	Yes ☒ No ☐ N/A	Total Containers:			

Lab ID	Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	ANALYSIS REQUEST	Preservative Codes	Sample Comments
CS 21		S	7-23			BTX		MeOH: Me	
CS 22						AD		None: NO	
CS 23						5		HNO3: HN	
CS 24								H2SO4: H2	
CS 25								HCL: HL	
CS 26								NaOH: Na	
CS 27								Zn Acetate+ NaOH: Zn	
STP 1									
STP 2									
STP 3									

Total 200.7 / 6010 200.8 / 6020:

Circle Method(s) and Metal(s) to be analyzed

8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn
TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U
1631 / 245.1 / 7470 / 7471 : Hg

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<u>[Signature]</u>	<u>[Signature]</u>	<u>7/23/20 1313</u>			

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Resolute Compliance LLC**Date/ Time Received:** 07.23.2020 01.13.00 PM**Work Order #:** 668043**Acceptable Temperature Range:** 0 - 6 degC**Air and Metal samples Acceptable Range:** Ambient**Temperature Measuring device used :** T-NM-007

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	19.8	
#2 *Shipping container in good condition?	Yes	
#3 *Samples received on ice?	No	Client was informed of coreect chilling procedures and given a cooler with temp blank.
#4 *Custody Seals intact on shipping container/ cooler?	Yes	
#5 Custody Seals intact on sample bottles?	Yes	
#6 *Custody Seals Signed and dated?	Yes	
#7 *Chain of Custody present?	Yes	
#8 Any missing/extra samples?	No	
#9 Chain of Custody signed when relinquished/ received?	Yes	
#10 Chain of Custody agrees with sample labels/matrix?	Yes	
#11 Container label(s) legible and intact?	Yes	
#12 Samples in proper container/ bottle?	Yes	Samples received in bulk containers.
#13 Samples properly preserved?	Yes	
#14 Sample container(s) intact?	Yes	
#15 Sufficient sample amount for indicated test(s)?	Yes	
#16 All samples received within hold time?	Yes	
#17 Subcontract of sample(s)?	No	
#18 Water VOC samples have zero headspace?	N/A	

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:

PH Device/Lot#:

Checklist completed by:



Elizabeth McClellan

Date: 07.23.2020

Checklist reviewed by:



Jessica Kramer

Date: 07.24.2020

Certificate of Analysis Summary 670072

Resolute Compliance LLC, Royse City, TX

Project Name: P.W. Spill

Project Id:

Contact: James VanAssche

Project Location: Carlsbad

Date Received in Lab: Fri 08.14.2020 10:06

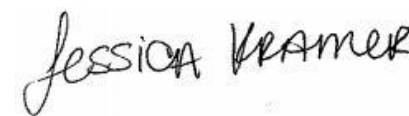
Report Date: 08.17.2020 11:27

Project Manager: Jessica Kramer

Analysis Requested	Lab Id: 670072-001 Field Id: C.S. 1 Depth: Matrix: SOIL Sampled: 08.14.2020 00:00	670072-002 S.P. 3 SOIL 08.14.2020 00:00				
BTEX by EPA 8021B SUB: T104704400-20-21	Extracted: 08.14.2020 12:47 Analyzed: 08.15.2020 00:29 Units/RL: mg/kg RL	08.14.2020 12:47 08.15.2020 00:52 mg/kg RL				
Benzene	<0.00245	0.00245	<0.00199	0.00199		
Toluene	<0.00245	0.00245	<0.00199	0.00199		
Ethylbenzene	<0.00980	0.00980	<0.00199	0.00199		
m,p-Xylenes	<0.0196	0.0196	<0.00398	0.00398		
o-Xylene	<0.00980	0.00980	<0.00199	0.00199		
Total Xylenes	<0.00980	0.00980	<0.00199	0.00199		
Total BTEX	<0.00245	0.00245	<0.00199	0.00199		
Chloride by EPA 300 SUB: T104704400-20-21	Extracted: 08.14.2020 12:00 Analyzed: 08.14.2020 13:08 Units/RL: mg/kg RL	08.14.2020 12:00 08.14.2020 13:14 mg/kg RL				
Chloride	173	50.0	62.6	50.2		
TPH by SW8015 Mod SUB: T104704400-20-21	Extracted: 08.14.2020 12:30 Analyzed: 08.14.2020 14:49 Units/RL: mg/kg RL	08.14.2020 12:30 08.14.2020 15:09 mg/kg RL				
Gasoline Range Hydrocarbons (GRO)	<50.1	50.1	<50.1	50.1		
Diesel Range Organics (DRO)	<50.1	50.1	<50.1	50.1		
Motor Oil Range Hydrocarbons (MRO)	<50.1	50.1	<50.1	50.1		
Total TPH	<50.1	50.1	<50.1	50.1		

BRL - Below Reporting Limit

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



Analytical Report 670072

for

Resolute Compliance LLC

Project Manager: James VanAssche

P.W. Spill

08.17.2020

Collected By: Client

**1089 N Canal Street
Carlsbad, NM 88220**

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-37), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

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

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TN102385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)



08.17.2020

Project Manager: **James VanAssche**

Resolute Compliance LLC

115 FM 2453 Ste A

Royse City, TX 75189

Reference: Eurofins Xenco, LLC Report No(s): **670072**

P.W. Spill

Project Address: Carlsbad

James VanAssche:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 670072. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 670072 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

A handwritten signature in black ink that reads "Jessica Kramer".

Jessica Kramer

Project Manager

A Small Business and Minority Company

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



Sample Cross Reference 670072

Resolute Compliance LLC, Royse City, TX

P.W. Spill

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
C.S. 1	S	08.14.2020 00:00		670072-001
S.P. 3	S	08.14.2020 00:00		670072-002



CASE NARRATIVE

Client Name: Resolute Compliance LLC

Project Name: P.W. Spill

Project ID:
Work Order Number(s): 670072

Report Date: 08.17.2020
Date Received: 08.14.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



Certificate of Analytical Results 670072

Resolute Compliance LLC, Royse City, TX

P.W. Spill

Sample Id: C.S. 1 Matrix: Soil Date Received: 08.14.2020 10:06
 Lab Sample Id: 670072-001 Date Collected: 08.14.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 08.14.2020 12:00 Basis: Wet Weight
 Seq Number: 3134602 SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	173	50.0	mg/kg	08.14.2020 13:08		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 08.14.2020 12:30 Basis: Wet Weight
 Seq Number: 3134621 SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	08.14.2020 14:49	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	08.14.2020 14:49	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	08.14.2020 14:49	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	08.14.2020 14:49	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	86	%	70-135	08.14.2020 14:49	
o-Terphenyl	84-15-1	86	%	70-135	08.14.2020 14:49	



Certificate of Analytical Results 670072

Resolute Compliance LLC, Royse City, TX

P.W. Spill

Sample Id: C.S. 1
Lab Sample Id: 670072-001

Matrix: Soil
Date Collected: 08.14.2020 00:00

Date Received: 08.14.2020 10:06

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 08.14.2020 12:47

Basis: Wet Weight

Seq Number: 3134693

SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00245	0.00245	mg/kg	08.15.2020 00:29	U	1
Toluene	108-88-3	<0.00245	0.00245	mg/kg	08.15.2020 00:29	U	1
Ethylbenzene	100-41-4	<0.00980	0.00980	mg/kg	08.15.2020 00:29	U	1
m,p-Xylenes	179601-23-1	<0.0196	0.0196	mg/kg	08.15.2020 00:29	U	1
o-Xylene	95-47-6	<0.00980	0.00980	mg/kg	08.15.2020 00:29	U	1
Total Xylenes	1330-20-7	<0.00980	0.00980	mg/kg	08.15.2020 00:29	U	1
Total BTEX		<0.00245	0.00245	mg/kg	08.15.2020 00:29	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	102	%	70-130	08.15.2020 00:29	
4-Bromofluorobenzene	460-00-4	101	%	70-130	08.15.2020 00:29	



Certificate of Analytical Results 670072

Resolute Compliance LLC, Royse City, TX

P.W. Spill

Sample Id: **S.P. 3** Matrix: Soil Date Received: 08.14.2020 10:06
 Lab Sample Id: 670072-002 Date Collected: 08.14.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 08.14.2020 12:00 Basis: Wet Weight
 Seq Number: 3134602 SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	62.6	50.2	mg/kg	08.14.2020 13:14		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 08.14.2020 12:30 Basis: Wet Weight
 Seq Number: 3134621 SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	08.14.2020 15:09	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	08.14.2020 15:09	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	08.14.2020 15:09	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	08.14.2020 15:09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	85	%	70-135	08.14.2020 15:09	
o-Terphenyl	84-15-1	70	%	70-135	08.14.2020 15:09	



Certificate of Analytical Results 670072

Resolute Compliance LLC, Royse City, TX

P.W. Spill

Sample Id: **S.P. 3**
Lab Sample Id: 670072-002

Matrix: Soil
Date Collected: 08.14.2020 00:00

Date Received: 08.14.2020 10:06

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 08.14.2020 12:47

Basis: Wet Weight

Seq Number: 3134693

SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	08.15.2020 00:52	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	08.15.2020 00:52	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	08.15.2020 00:52	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	08.15.2020 00:52	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	08.15.2020 00:52	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	08.15.2020 00:52	U	1
Total BTEX		<0.00199	0.00199	mg/kg	08.15.2020 00:52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	102	%	70-130	08.15.2020 00:52	
4-Bromofluorobenzene	460-00-4	101	%	70-130	08.15.2020 00:52	

Flagging Criteria

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

** Surrogate recovered outside laboratory control limit.

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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

Resolute Compliance LLC

P.W. Spill

Analytical Method: Chloride by EPA 300

Seq Number: 3134602

MB Sample Id: 7709464-1-BLK

Matrix: Solid

LCS Sample Id: 7709464-1-BKS

Prep Method: E300P

Date Prep: 08.14.2020

LCSD Sample Id: 7709464-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	260	104	263	105	90-110	1	20	mg/kg	08.14.2020 12:29	

Analytical Method: Chloride by EPA 300

Seq Number: 3134602

Parent Sample Id: 670038-004

Matrix: Soil

MS Sample Id: 670038-004 S

Prep Method: E300P

Date Prep: 08.14.2020

MSD Sample Id: 670038-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	10900	198	11100	101	11100	101	90-110	0	20	mg/kg	08.14.2020 16:04	

Analytical Method: Chloride by EPA 300

Seq Number: 3134602

Parent Sample Id: 670079-003

Matrix: Soil

MS Sample Id: 670079-003 S

Prep Method: E300P

Date Prep: 08.14.2020

MSD Sample Id: 670079-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	13.7	200	208	97	211	99	90-110	1	20	mg/kg	08.14.2020 14:18	

Analytical Method: TPH by SW8015 Mod

Seq Number: 3134621

MB Sample Id: 7709490-1-BLK

Matrix: Solid

LCS Sample Id: 7709490-1-BKS

Prep Method: SW8015P

Date Prep: 08.14.2020

LCSD Sample Id: 7709490-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	890	89	887	89	70-135	0	35	mg/kg	08.14.2020 12:27	
Diesel Range Organics (DRO)	<50.0	1000	916	92	935	94	70-135	2	35	mg/kg	08.14.2020 12:27	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	93		115		114		70-135	%	08.14.2020 12:27
o-Terphenyl	100		102		104		70-135	%	08.14.2020 12:27

Analytical Method: TPH by SW8015 Mod

Seq Number: 3134621

Matrix: Solid

MB Sample Id: 7709490-1-BLK

Prep Method: SW8015P

Date Prep: 08.14.2020

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	08.14.2020 13:08	

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

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

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

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

Resolute Compliance LLC

P.W. Spill

Analytical Method: TPH by SW8015 Mod

Seq Number: 3134621

Parent Sample Id: 670079-001

Matrix: Soil

MS Sample Id: 670079-001 S

Prep Method: SW8015P

Date Prep: 08.14.2020

MSD Sample Id: 670079-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	999	901	90	883	88	70-135	2	35	mg/kg	08.14.2020 13:49	
Diesel Range Organics (DRO)	<50.0	999	932	93	915	92	70-135	2	35	mg/kg	08.14.2020 13:49	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	108		104		70-135	%	08.14.2020 13:49
o-Terphenyl	98		96		70-135	%	08.14.2020 13:49

Analytical Method: BTEX by EPA 8021B

Seq Number: 3134693

MB Sample Id: 7709453-1-BLK

Matrix: Solid

LCS Sample Id: 7709453-1-BKS

Prep Method: SW5035A

Date Prep: 08.14.2020

LCSD Sample Id: 7709453-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.110	110	0.101	101	70-130	9	35	mg/kg	08.14.2020 14:03	
Toluene	<0.00200	0.100	0.105	105	0.0961	96	70-130	9	35	mg/kg	08.14.2020 14:03	
Ethylbenzene	<0.00200	0.100	0.0978	98	0.0893	89	71-129	9	35	mg/kg	08.14.2020 14:03	
m,p-Xylenes	<0.00400	0.200	0.198	99	0.181	91	70-135	9	35	mg/kg	08.14.2020 14:03	
o-Xylene	<0.00200	0.100	0.0981	98	0.0896	90	71-133	9	35	mg/kg	08.14.2020 14:03	

Surrogate

	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	98		98		98		70-130	%	08.14.2020 14:03
4-Bromofluorobenzene	93		98		98		70-130	%	08.14.2020 14:03

Analytical Method: BTEX by EPA 8021B

Seq Number: 3134693

Parent Sample Id: 669976-001

Matrix: Soil

MS Sample Id: 669976-001 S

Prep Method: SW5035A

Date Prep: 08.14.2020

MSD Sample Id: 669976-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00199	0.0996	0.105	105	0.105	105	70-130	0	35	mg/kg	08.15.2020 01:59	
Toluene	<0.00199	0.0996	0.100	100	0.0999	100	70-130	0	35	mg/kg	08.15.2020 01:59	
Ethylbenzene	<0.00199	0.0996	0.0958	96	0.0926	93	71-129	3	35	mg/kg	08.15.2020 01:59	
m,p-Xylenes	<0.00398	0.199	0.188	94	0.188	94	70-135	0	35	mg/kg	08.15.2020 01:59	
o-Xylene	<0.00199	0.0996	0.0936	94	0.0933	94	71-133	0	35	mg/kg	08.15.2020 01:59	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	100		100		70-130	%	08.15.2020 01:59
4-Bromofluorobenzene	101		99		70-130	%	08.15.2020 01:59

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

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

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

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



Chain of Custody

Work Order No: 676072

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334

Midland, TX (432) 704-5440 EL Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296 Craslpad. NM (432) 704-5440

Phoenix, AZ (480) 355-0900 Atlanta, GA (770) 449-8800 Tampa, FL (813) 620-2000 West Palm Beach, FL (561) 866-0200

West Palm Beach, FL (561) 689-6701

Page _____ of _____
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Project Manager:	James Vassache	Bill to: (if different)	
Company Name:	Resolute	Company Name:	
Address:		Address:	
City, State ZIP:		City, State ZIP:	
Phone:	517 714 - 2598	Email:	ja@resolutecompliance.com
Project Name:	D15 S-11		

Program: ☒ UST/PST ☐ PRP ☐ Brownfields ☐ RCC ☐ Superfund ☐ State of Project: _____ Reporting Level: ☐ Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐ Deliverables: EDD ☐ ADAPT ☐ Other: _____		www.xenico.com Page _____ of _____
Work Order Comments		

[illegible][illegible]

Total 200.7 / 6010 200.8 / 6020:

Circle Method(s) and Metal(s) to be analyzed

8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
TC1P / SPIP 6M10 8RCRA Sh As Ba Be Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn

1631 / 245.1 / 7470 / 7471 : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>Michael</i>	<i>Clare Cupko</i>	0-14-00 10:06			

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Resolute Compliance LLC

Date/ Time Received: 08.14.2020 10.06.00 AM

Work Order #: 670072

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : T-NM-007

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	4
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	Yes
#5 Custody Seals intact on sample bottles?	Yes
#6 *Custody Seals Signed and dated?	Yes
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	No
#18 Water VOC samples have zero headspace?	N/A

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:

PH Device/Lot#:

Checklist completed by: Cloe Clifton Date: 08.14.2020
Checklist reviewed by: Jessica Kramer Date: 08.16.2020