



May 19, 2022

Mr. Jason Davidson  
PDC Energy, Inc.  
4000 Burlington Avenue  
Evans, Colorado 80620

**RE: Facility Closure Investigation and Source Removal Excavation Results and  
Monitoring Well Installation Work Plan  
Heinze #1 Tank Battery  
COGCC Remediation Project #21791  
Weld County, Colorado**

Mr. Davidson,

Entrada Consulting Group, Inc. (Entrada) has prepared this report for PDC Energy, Inc. (PDC) to present the results of recent facility closure investigation and excavation soil sampling activities conducted at the Heinze #1 (Facility ID 417318) Production Facility (Site). Entrada conducted facility closure field screening and collected confirmation soil samples during decommissioning of the tank battery equipment. The Site is located 0.25 miles west of Weld County Road (WCR) 63 and 0.12 miles north of WCR 74 in Weld County, Colorado. The center location coordinates of the Site in decimal degrees are 40.524722° latitude and -104.475277° longitude. A general location map is provided as Figure 1.

All investigation activities, field screening, and confirmation soil sampling activities discussed herein were conducted in accordance with COGCC 900 Series Rules and guidance documents. Discrete soil samples were collected and analyzed pursuant to Rule 915, following the general sample collection guidance in Rule 915.e.(2). A photographic log documenting the activities discussed herein is provided as Attachment A. The COGCC facility closure checklists are provided as Attachment B. The waste manifests documenting proper disposal of the impacted media removed from the Site detailed in the narrative below are provided in Attachment C.

## **SITE HISTORY AND IDENTIFIED REPORTABLE RELEASES**

The Initial Form 27 Site Investigation and Remediation Workplan (Colorado Oil and Gas Conservation Commission [COGCC] Document Number 402935094) for facility closure at the Site was approved by the COGCC on January 31, 2022 and assigned Remediation Project Number 21791. The off-site Heinze 31-14 and Heinze 31-24 wellheads and associated flowlines were plugged and abandoned and closure investigation activities were addressed separately under COGCC Remediation Project Number 21789.

Field evidence of petroleum hydrocarbon impact above the COGCC criteria for reportability per Rule 912.b was observed during removal of buried lines adjacent the northern side of the above ground storage tanks (ASTs) and below the eastern separator. The areas were reported as separate releases to the COGCC in Form 19 Document Number 402968169 for the AST area on February 28, 2022, and Form 19 Document Number 402996857 for the separator area on March 28, 2022, with work proceeding under COGCC Remediation Project Number 21791 for both releases. Waste characterization samples were collected from both locations from the area with the greatest field evidence of impact, and reduced analyte lists for subsequent confirmation samples were requested in Form 27 Supplemental Document Number 402985978 (for the AST area) approved by the COGCC on March 16, 2022, and Form 27 Supplemental Document Number 403004223 (for the separator area) approved by the COGCC on April 5, 2022. Further details related to identification of the releases and associated waste characterization soil sampling is discussed below.

## **FACILITY CLOSURE SOIL AND GROUNDWATER SAMPLING ACTIVITIES**

Between February 24, 2022, and March 7, 2022, Entrada personnel conducted field screening and collected soil and groundwater samples related to facility decommissioning at the Site. Field screening consisted of inspecting soil and groundwater for visual and olfactory evidence of hydrocarbon impact and use of a photoionization detector (PID) calibrated with 100 parts per million (ppm) isobutylene gas. The equipment investigated following decommissioning and removal included three above ground storage tanks (ASTs), one partially buried produced water tank, two separators, four emission control devices (ECDs), and associated flowlines and dump lines.

Following removal of the three ASTs, on February 24 and 25, 2022, one soil sample was collected for laboratory analysis from the footprint of the west and center ASTs (soil samples SS1-1 and SS3-1, respectively) from 1 foot below ground surface (ft-bgs). On February 25, 2022, while removing a buried line on the northern side of the eastern AST, field evidence of a historical release impacting soil was observed and subsequently reported to the COGCC in a Form 19, as previously discussed, and was later removed by excavation which is detailed below. A waste characterization soil



sample (WC01-3) was collected at 3 ft-bgs from material exhibiting the highest degree of field evidence of hydrocarbon impact and was submitted for the laboratory analysis of the complete COGCC Table 915-1 list.

Additional field screening of the AST release area indicated that the impact extended below the partially buried produced water vault. On February 28, 2022, one test pit (Test Pit 1) was advanced to approximately 11 ft-bgs between the eastern AST and the partially buried produced water vault, and groundwater was observed infiltrating into the test pit at approximately 10 ft-bgs. One grab groundwater sample (GW01) was collected from Test Pit 1 for analysis of the Table 915-1 Organic Compounds in Groundwater list. The static groundwater level in Test Pit 1 was approximately 5 ft-bgs after equilibrating overnight.

Following removal of the separators, field screening was completed beneath the former gas inlet connections and on February 28, 2022, soil samples SS4-2 and SS5-2 were collected from 2 ft-bgs from below the former dump lines of the western and eastern separators, respectively. On March 2, one test pit (Test Pit 2) was advanced to a total depth of approximately 11 ft-bgs between the separators and groundwater was observed infiltrating into the test pit at approximately 10 ft-bgs. As a result, a grab groundwater sample (GW02) was collected from Test Pit 2 for analysis of the Table 915-1 Organic Compounds in Groundwater list.

Field screening was completed beneath the four former ECDs and no evidence of hydrocarbon impact was observed. Small excavations were advanced to remove buried flowlines and dump lines at various locations around the Site. No field evidence of petroleum hydrocarbon impact, other than that noted above, was observed while removing buried flowlines and dump lines.

Background samples were collected north of the pad to characterize natural inorganic concentrations. Four background soil samples (BG1-1, BG1-3, BG2-1, and BG2-3) were collected from two locations at upgradient areas away from potential sources of impact related to the Site operations.

The tank battery field screening locations with the associated PID results and facility closure soil sample locations are displayed on Figure 2. The locations of Test Pit 1 and groundwater sample GW01 are displayed on Figure 3 and the locations of Test Pit 2 and groundwater sample GW02 are displayed on Figure 4.

## **FACILITY CLOSURE LABORATORY ANALYSIS**

### **Soil Analysis**

All soil samples were collected into 4-ounce sample jars, sealed, labeled, placed into ice-filled coolers for preservation, then submitted following chain-of-custody procedures to Origins Laboratory in Denver, Colorado, for analysis of the following parameters by the stated methods:

#### **Waste Characterization Sample (WC01-3)**

- Complete Table 915-1 list:
  - Benzene, toluene, ethylbenzene, total xylenes (BTEX), 1,2,4 trimethylbenzene (TMB), 1,3,5 TMB, and total petroleum hydrocarbons (TPH) as gasoline range organics (GRO) by Environmental Protection Agency (EPA) Method 8260D
  - Polycyclic aromatic hydrocarbons (Table 915-1 list) by EPA method 8270D.
  - TPH as diesel range organics (DRO) and TPH as oil range organics (ORO) by EPA Method 8015D.
  - Metals (Table 915-1 list) by EPA Method 6020B, with hexavalent chromium by EPA Method 7196A.
  - Electrical conductivity (EC) by Modified 9050A, sodium adsorption ratio (SAR) by 20B Saturated Paste Method, pH by EPA Method 9045D and boron by hot water-soluble extraction Method.

#### **Facility Closure Confirmation Samples (SS1-1, SS3-1, SS4-2, and SS5-2)**

- BTEX, 1,2,4-TMB, 1,3,5-TMB, naphthalene, TPH as GRO, TPH as DRO, and TPH as ORO by the methods listed above.

#### **Background Soil Samples (BG1-1, BG1-3, BG2-1, and BG2-3)**

- EC, SAR, pH, boron, arsenic, barium and selenium by the above stated methods.

### **Groundwater Analysis**

Groundwater samples GW01 and GW02 were collected into laboratory provided containers using 2-inch disposable bailers, labeled, placed into ice filled coolers for preservation, then submitted following chain-of-custody procedures to Origins for analysis of BTEX, naphthalene, 1,2,3-TMB, and 1,3,5-TMB by EPA method 8260D.

## **FACILITY CLOSURE ANALYTICAL RESULTS**

### **Soil Analytical Results**

Due to the presence of shallow groundwater at the Site, the COGCC Table 915-1 Protection of Groundwater Soil Screening Levels (GWSSLs) were used to determine soil compliance. A summary of analytes with laboratory results exceeding their respective COGCC Table 915-1 GWSSLs is presented below:

#### **Waste Characterization Sample WC01-3**

- Organic compounds in soils: benzene (0.0528 milligrams per kilogram [mg/kg]), ethylbenzene (1.98 mg/kg), 1,2,4-TMB (6.79 mg/kg), 1,3,5-TMB (1.90 mg/kg), 1-methylnaphthalene (3.1 mg/kg), 2-methylnaphthalene (4.04 mg/kg), and naphthalene (1.24 mg/kg)
- TPH: 1,041 mg/kg
- Metals: arsenic (2.91 mg/kg), barium (85.3 mg/kg), and selenium (0.374 mg/kg)

#### **Facility Closure Confirmation Sample SS5-2**

- Organic compounds in soils: 1,3,5-TMB (0.0296 mg/kg)
- TPH: 3,213 mg/kg

#### **Background Soil Samples BG1-1, BG1-3, BG2-1, and BG2-3**

- Arsenic: BG1-1 (1.69 mg/kg), BG1-3 (1.54 mg/kg), BG2-1 (1.44 mg/kg), and BG2-3 (3.08 mg/kg)
- Selenium: BG1-1 (0.267 mg/kg), BG1-3 (0.323 mg/kg), and BG2-1 (0.286 mg/kg)
- SAR: BG1-1 (9.60)
- pH: BG1-1 (8.71), BG2-1 (8.51), and BG2-3 (8.31)

All other laboratory analytical results were compliant with their respective Table 915-1 GWSSLs. The waste characterization and background soil analytical results are summarized in Table 2 and the facility closure soil analytical results are summarized in Table 3. The analytical results reported above applicable Table 915-1 standards are shown on Figure 2 and Figure 3. The laboratory analytical reports are provided in Attachment D.

## **Test Pit Groundwater Analytical Results**

The COGCC Table 915-1 Organic Compounds in Groundwater were used to determine compliance of the groundwater samples. The laboratory groundwater analytical results for GW01 reported benzene and 1,2,4-TMB concentrations of 40.7 micrograms per liter (µg/l) and 253 µg/l, respectively, which are above applicable COGCC Table 915-1 groundwater standards. All other laboratory analytical results for samples GW01 and GW02 were compliant with applicable COGCC Table 915-1 groundwater standards. The groundwater analytical results are summarized in Table 4, the groundwater results above applicable Table 915-1 standards are presented on Figure 3, and the laboratory analytical reports are provided in Attachment D.

## **INITIAL EXCAVATION ACTIVITIES**

### **AST Area**

On March 11, 2022, excavation was initiated to remove the impacted soil characterized by soil sample WC01-3. The final extent of excavation was approximately 40 feet by 30 feet laterally to a maximum depth of approximately 12-ft bgs. Groundwater was observed slowly infiltrating into the excavation and reached equilibrium at approximately 5 ft-bgs. Approximately 318 cubic yards of soil was hauled offsite for disposal under GWOC manifest to Waste Management's Buffalo Ridge Landfill in Keenesburg, Colorado and to Waste Management's North Weld Landfill in Ault, Colorado in accordance with Rules 905 and 906. The waste disposal manifests are provided in Attachment C.

Seven confirmation soil samples (EX01-5 through EX07-5) were collected from the sidewalls of the final extent of the excavation from 5 ft-bgs for laboratory analysis.

On March 28, 2022, the excavation was backfilled with clean soil sourced from the landowner. Prior to backfilling, approximately 260 barrels (bbls) of groundwater was removed with a water truck for off-site disposal at NGL Waste Solutions C-7 injection well in Galeton, Colorado in accordance with Rules 905 and 906. Groundwater was removed to allow for proper compaction and to remove dissolved phase hydrocarbons. The waste disposal manifests are provided in Attachment C. To mitigate any potential residual dissolved phase hydrocarbons, 150 pounds of Trap & Treat® BOS 200® activated carbon groundwater amendment was applied to the excavation by placing it at the base of the excavation and mixing it into the clean backfill from total depth to approximately 5 ft-bgs, which is the expected zone of groundwater level seasonal fluctuation. The BOS 200® safety data sheet is provided in Attachment E.

## **Separator Area**

Based on the results of facility closure sample SS5-2, excavation was initiated at the separators to remove the identified exceedance and investigate the extent of potential impact. The final extent of excavation was approximately 20 feet by 5 feet to a maximum depth of 5 ft-bgs. Five confirmation soil samples (EX08-2 through EX10-2) were collected from the sidewalls of the final extent of the excavation from 2 ft-bgs and one confirmation soil sample (EX11-5) was collected from the floor of the final extent of excavation from 5 ft-bgs for laboratory analysis. Due to prior clean soil removal during separator facility closure activities less than 10 cubic yards of potentially impacted soil was removed and stockpiled for later off-site disposal and the area was not yet identified as a COGCC reportable release.

The initial excavation confirmation soil sample locations and excavation extent are displayed on Figure 4.

### **Initial Excavation Soil Analysis**

Based on the analytical results of waste characterization sample WC01-3, excavation confirmation soil samples were submitted for laboratory analysis of the analytes listed below. After review of the initial results, soil sample EX11-5 was submitted for analysis of the full Table 915-1 list as a representative waste characterization of the impact identified at the former separators. Initial confirmation soil samples in the separator area were submitted for the following:

- BTEX, 1,2,4-TBM, 1,3,5-TMB, TPH as GRO, TPH as DRO, TPH as ORO by the above stated methods.
- Polycyclic aromatic hydrocarbons (Table 915-1 list) by the above stated method.
- Barium and selenium by the above stated methods.

### **Initial Excavation Soil Analytical Results**

The soil sample analytical results with reported concentrations above applicable COGCC Table 915-1 GWSSLs are listed below.

- EX08-2: Barium (88.8 mg/kg).
- EX11-5: TPH (13,250 mg/kg), benzene (0.522 mg/kg), toluene (0.407 mg/kg), ethylbenzene (14.7 mg/kg), total xylenes (72.7 mg/kg), 1,2,4-TMB (48.2 mg/kg), 1,3,5-TMB (15.4 mg/kg), benzo(a)anthracene (0.0159 mg/kg), 1-methylnaphthalene (2.15 mg/kg), 2-methylnaphthalene (3.14 mg/kg), naphthalene (4.20 mg/kg), and arsenic (2.3 mg/kg).

All remaining results were compliant with applicable Table 915-1 GWSSLs. Soil sample EX11-5 was submitted as a waste characterization sample, and the analytical results

are summarized in Table 2. The AST area excavation confirmation soil analytical results are summarized in Table 5 and the separator excavation confirmation soil analytical results are summarized in Table 6. The soil laboratory analytical reports are provided in Attachment D. The soil analytical results above their respective Table 915-1 standards are shown on Figure 3 and Figure 4.

## **FINAL SEPARATOR AREA EXCAVATION ACTIVITIES**

Based on the results of EX11-5, additional excavation at the former separators was completed on March 28, 2022. During the second round of excavation, field evidence of hydrocarbon impact greater than COGCC's Rule 912.b reporting thresholds was observed and as discussed above, the release reported to the COGCC in a Form 19. The final extent of the excavation was approximately 20 feet by 30 feet to a maximum depth of 15 ft-bgs, which was larger in extent than the material represented by samples EX08 through EX11. Groundwater was observed infiltrating into the excavation during excavation activities at approximately 9 ft-bgs. Approximately 155 cubic yards of soil was hauled offsite for disposal under GWOC manifest to Waste Management's Buffalo Ridge Landfill in Keenesburg, Colorado and to Waste Management's North Weld Landfill in Ault, Colorado in accordance with Rules 905 and 906. The waste disposal manifests are provided in Attachment C.

Five confirmation soil samples (EX12-5 through EX16-5) were collected at 5 ft-bgs from the sidewalls of the final extent of the excavation and submitted for laboratory analysis.

On April 13, 2022, the excavation was backfilled with clean soil sourced from the landowner. Prior to backfilling, approximately 264 bbls of groundwater was removed with a water truck for off-site disposal at Pawnee Waste Disposal in Grover, Colorado, in accordance with Rules 905 and 906. Groundwater was removed to allow proper compaction and to remove dissolved phase hydrocarbons. The waste disposal manifests are provided in Attachment C. To mitigate any potential residual dissolved phase hydrocarbons, 100 pounds of Trap & Treat® BOS 200® activated carbon groundwater amendment was applied to the excavation by placing it at the base of the excavation and mixing it into the clean backfill from total depth to approximately 5 ft-bgs, which is the expected zone of groundwater level seasonal fluctuation.

### Final Separator Excavation Soil Analysis and Analytical Results (EX12-5 through EX16-5)

Based on the analytical results of waste characterization sample EX11-5, excavation confirmation soil samples in the separator area were submitted for laboratory analysis of the analytes listed below.

- BTEX, 1,2,4-TBM, 1,3,5-TMB, TPH as GRO, TPH as DRO, TPH as ORO by the above stated methods.
- Polycyclic aromatic hydrocarbons (Table 915-1 list) by the above stated method.

All laboratory analytical results for samples EX12-5 through EX16-5 were reported below applicable Table 915-1 GWSSLs. The separator excavation analytical results are summarized in Table 6. Sample locations and final extent of excavation is displayed on Figure 4. The laboratory analytical report is provided in Attachment D.

## **SUMMARY AND PROPOSED GROUNDWATER MONITORING PLAN**

### **Facility Closure, Excavation, and Remediation Summary**

Hydrocarbon impacted soil was identified during facility closure activities at two separate areas, beneath the eastern AST and beneath the eastern separator. Excavation was conducted and the identified impacted soil was removed and transported offsite for disposal at a properly permitted waste facility. All analytical results of the excavation confirmation soil samples collected from the final extents of the excavations were compliant with their applicable Table 915-1 GWSSLs or consistent with local background concentrations. BOS 200® groundwater amendment was applied to the zone of anticipated seasonal groundwater fluctuation in each excavation during backfill to mitigate any potential residual dissolved phase hydrocarbons.

### **Proposed Groundwater Monitoring Plan**

GWOC proposes to install five groundwater monitoring wells and initiate quarterly groundwater sampling at the Site. One monitoring well will be installed in each of the former excavations to monitor potential source zones. The remaining wells will be located to establish upgradient, cross-gradient, and downgradient points of compliance. The proposed monitoring well locations are shown on Figure 5. During excavation, visual evidence of hydrocarbon staining of soil was observed between approximately 5 ft-bgs and 10 ft-bgs with isolated staining extending to 15 ft-bgs in the separator excavation. The observed staining is interpreted as evidence of the potential vertical interval of groundwater fluctuation at the Site. To ensure that the monitoring well's screened intervals will extend above and below the anticipated zone of groundwater fluctuation, the wells will be installed to total depths of approximately 19 ft-bgs and will be constructed with 15 feet of screen extending from total depth. All monitoring wells will be constructed and permitted in accordance with the Colorado State Engineer's Water Well Construction and Permitting Rules.

During monitoring well installation, the on-site geologist will describe the recovered soil using the Unified Soil Classification System and field screen to note evidence of potential hydrocarbon impact. Since the source areas were fully laterally delineated

during source removal excavation, soil samples will not be collected during monitoring well installation unless field evidence of hydrocarbon impact is observed.

Prior to the first sampling event, the groundwater wells will be developed by purging a minimum of ten casings volumes and the top of casing will be surveyed to allow collection of relative groundwater elevation data. Groundwater samples will be collected from the monitoring wells on a quarterly schedule and will be submitted to an accredited laboratory for analysis of BTEX, naphthalene, 1,2,4-TMB, and 1,3,5-TMB by EPA Method 8260. Quarterly groundwater sampling and analysis will continue until four consecutive quarters of analytical results demonstrate compliance with the applicable Table 915-1 standards.

We appreciate the opportunity to assist PDC Energy. Please contact me at (435) 630-4748 if you have any questions.

Sincerely,

**ENTRADA CONSULTING GROUP**



Jeremy Pike, P.G.  
*Senior Project Geologist*



Ben Baugh, P.G.  
*Senior Project Geologist*

**Attachments:**

**Figure 1 – General Location Map**

**Figure 2 – Facility Closure Sample Location Map**

**Figure 3 – Tank Battery Area Excavation Sample Location Map**

**Figure 4 – Separator Area Excavation Sample Location Map**

**Figure 5 – Proposed Monitoring Well Location Map**

**Table 1 – Soil Sample and Field Screening Location Information**

**Table 2 – Waste Characterization and Background Soil Analytical Results**

**Table 3 – Facility Closure Soil Analytical Results**

**Table 4 – Test Pit Groundwater Analytical Results**

**Table 5 – AST Area Excavation Soil Analytical Results**

**Table 6 – Separator Area Excavation Soil Analytical Results**

**Attachment A: Photographic Log**

**Attachment B: Facility Closure Checklists**

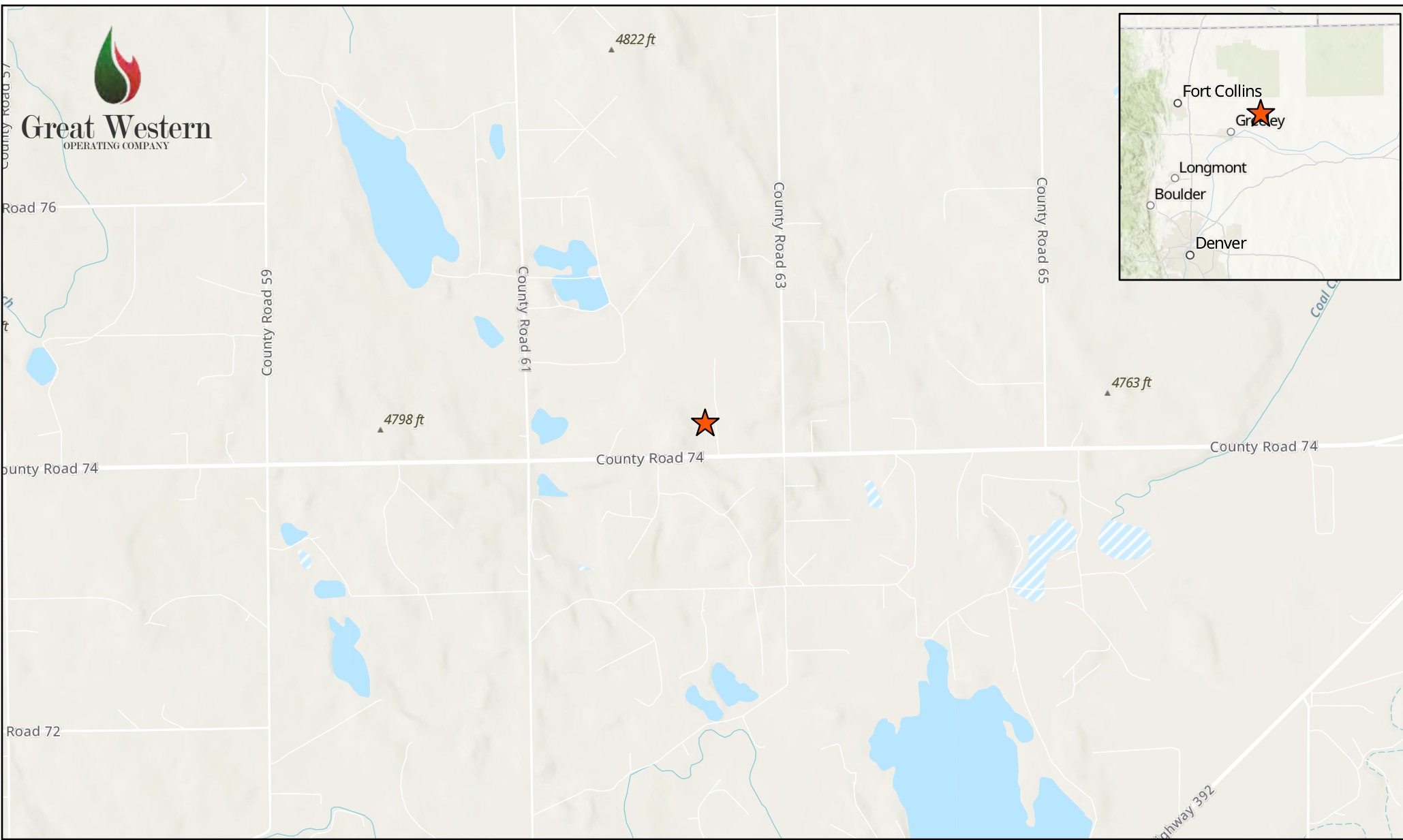
**Attachment C: Disposal Manifests**

**Attachment D: Laboratory Analytical Reports**

**Attachment E: BOS 200® Safety Data Sheet**

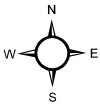
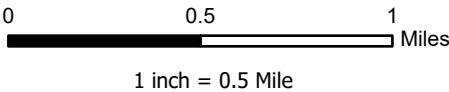


## FIGURES



**LEGEND**

 Site Location



Project No: 022-009

Map By: JW

Date: 05/13/2022

**HEINZE #1 TANK BATTERY GENERAL LOCATION MAP**  
GREAT WESTERN OPERATING COMPANY  
SW 1/4 SE 1/4 SECTION 31  
T7N R63W, 6TH PM  
WELD COUNTY, COLORADO



1843 Sunlight Dr.  
Longmont, CO 80504  
303.378.4036

Figure

1



BG1-1	
2/25/2022	
pH:	8.71
SAR:	9.60
Arsenic (mg/kg):	1.69
Selenium (mg/kg):	0.267
BG1-3	
2/25/2022	
Arsenic (mg/kg):	1.54
Selenium (mg/kg):	0.323

Only sample results above applicable COGCC Table 915-1 GWSSLs are displayed.

BG2-1	
2/25/2022	
pH:	8.51
Arsenic (mg/kg):	1.44
Selenium (mg/kg):	0.286
BG2-3	
2/25/2022	
pH:	8.31
Arsenic (mg/kg):	3.08

Gas Sales Line from Heinze #2 Tank Battery (removed)

Above-ground Crude Oil Storage Tanks

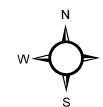
**LABEL LEGEND**  
SS#-#: SOIL SAMPLE - DEPTH BELOW GROUND SURFACE (FEET)  
FS: FIELD SCREENING SAMPLE  
GW: GROUNDWATER SAMPLE  
BG: BACKGROUND SAMPLE  
DRO: DIESEL RANGE ORGANICS  
ORO: OIL RANGE ORGANICS  
SAR: SODIUM ADSORPTION RATIO  
TPH: TOTAL PETROLEUM HYDROCARBONS  
mg/kg: MILLIGRAMS PER KILOGRAM  
µg/l: MICROGRAMS PER LITER

SS5-2	
2/28/2022	
PID (ppm):	396
DRO (mg/kg):	2,140
ORO (mg/kg):	1,070
TPH (mg/kg):	3,213
1,3,5-TMB (mg/kg):	0.0296

**LEGEND**  
● Soil Sample  
● Screening Location  
--- Flowline Removed  
--- Gas Sales Line Removed

**NOTES:**  
- Sample Label (PID Result in ppm)  
- ppm = parts per million

0 30 60 Feet  
1 inch = 35 Feet



Project No: 022-009

Map By: JW

Date: 05/13/2022

**HEINZE #1 TANK BATTERY FACILITY CLOSURE  
AND FIELD SCREENING SOIL SAMPLE LOCATIONS**  
GREAT WESTERN OPERATING COMPANY  
SW 1/4 SE 1/4 SECTION 31  
T7N R63W, 6TH PM  
WELD COUNTY, COLORADO



1843 Sunlight Dr.  
Longmont, CO 80504  
303.378.4036

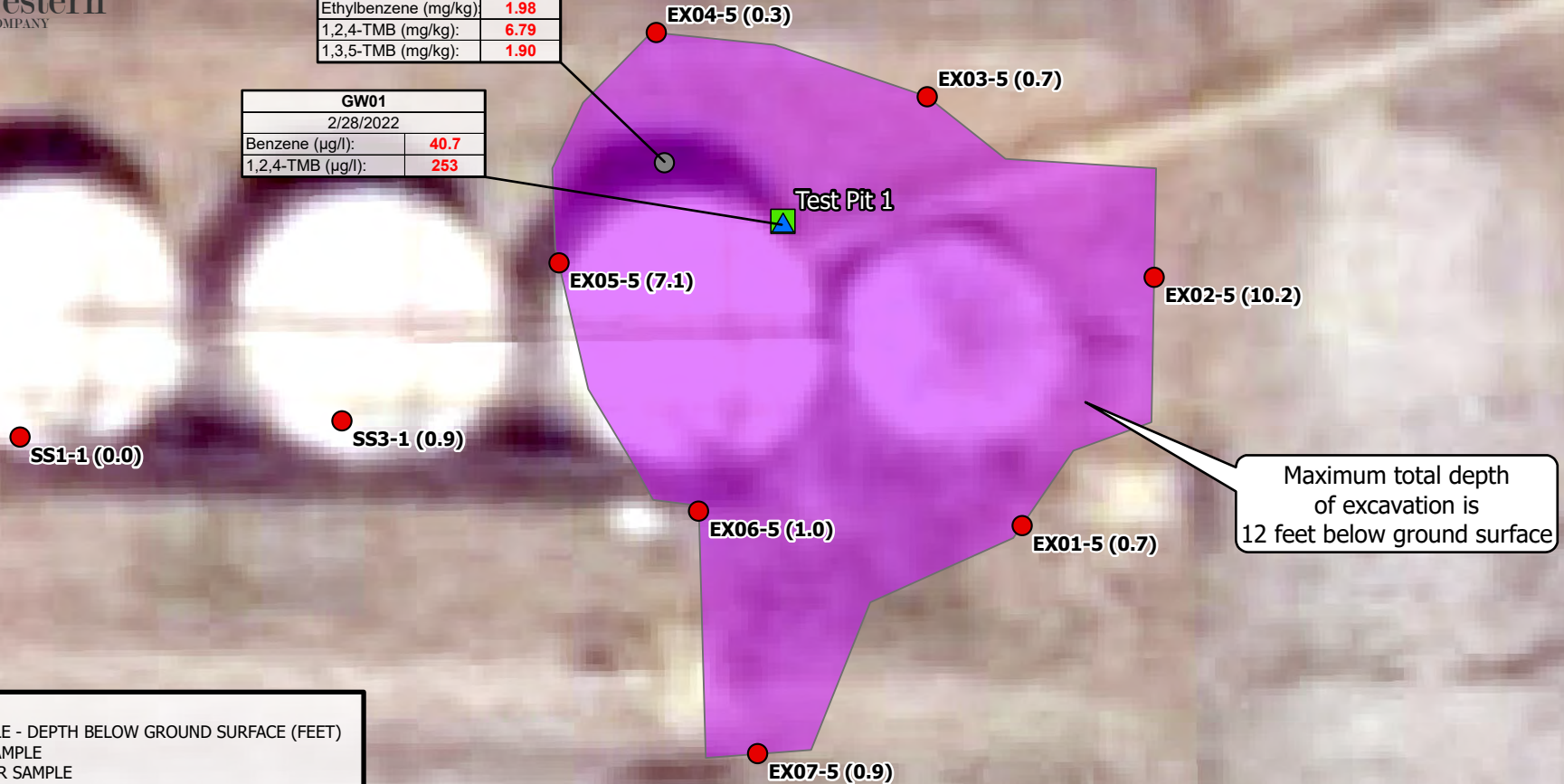
Figure

2



WC01-3	
2/25/2022	
PID (ppm):	1,139
DRO (mg/kg):	603
TPH (mg/kg):	1,041
Benzene (mg/kg):	0.0528
Ethylbenzene (mg/kg):	1.98
1,2,4-TMB (mg/kg):	6.79
1,3,5-TMB (mg/kg):	1.90

GW01	
2/28/2022	
Benzene (µg/l):	40.7
1,2,4-TMB (µg/l):	253



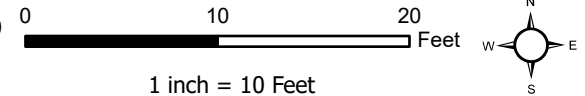
**LABEL LEGEND**  
 SS#-#: SOIL SAMPLE - DEPTH BELOW GROUND SURFACE (FEET)  
 EX: EXCAVATION SAMPLE  
 GW: GROUNDWATER SAMPLE  
 WC: WASTE CHARACTERIZATION  
 PID: PHOTOIONIZATION DETECTOR  
 DRO: DIESEL RANGE ORGANICS  
 TPH: TOTAL PETROLEUM HYDROCARBONS  
 TMB: TRIMETHYLBENZENE  
 mg/kg: MILLIGRAMS PER KILOGRAM  
 µg/l: MICROGRAMS PER LITER

**LEGEND**

- Soil Sample
- Soil Sample - Removed by Excavation
- ▲ Groundwater Sample
- Test Pit
- Approximate Excavation Extent

**NOTES:**

- Sample Label (PID Result in ppm)
- ppm = parts per million



Project No: 022-009

Map By: JW

Date: 05/16/2022

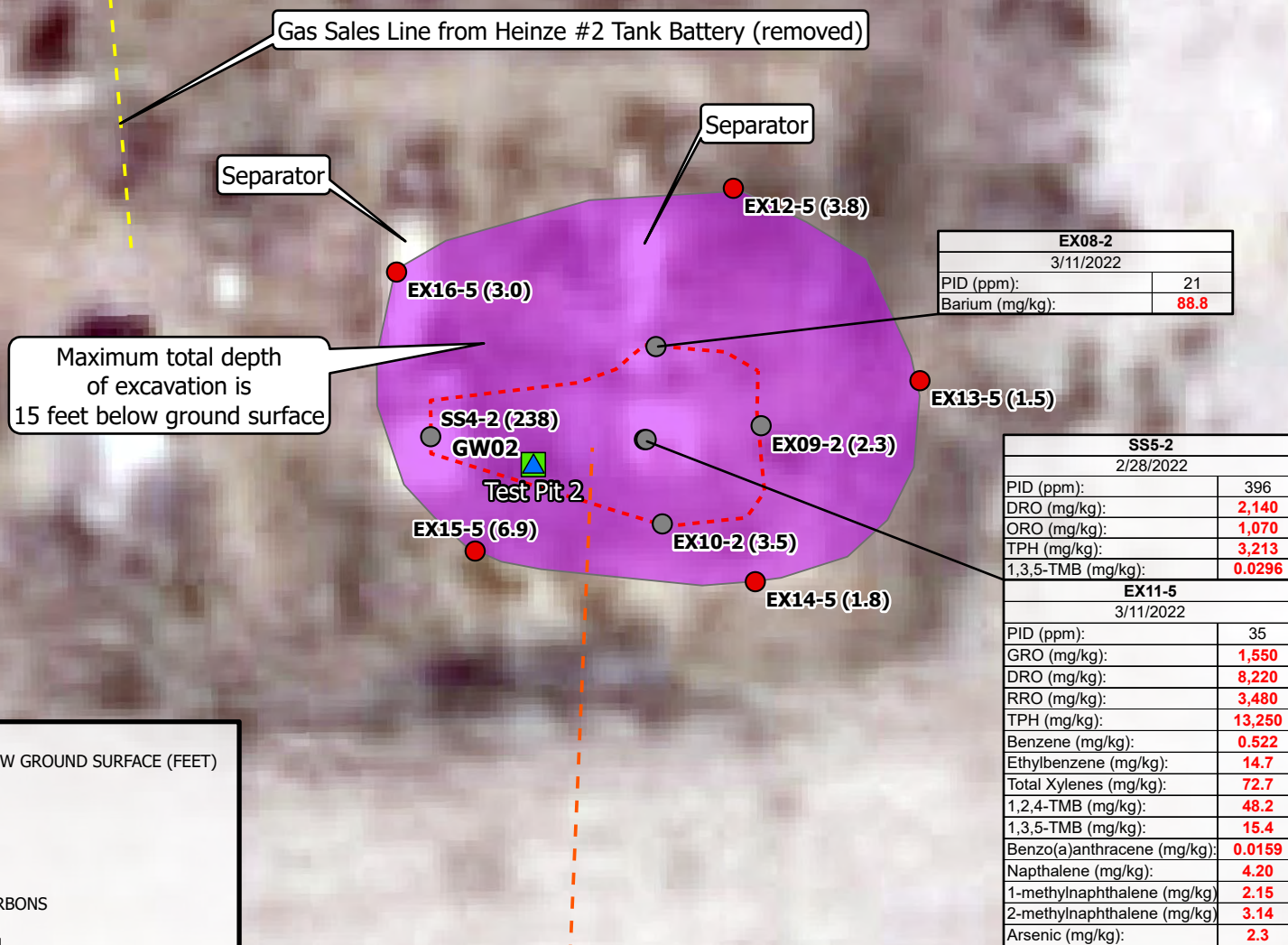
**HEINZE #1 TANK BATTERY**  
**EXCAVATION CONFIRMATION SOIL SAMPLE LOCATIONS**  
 GREAT WESTERN OPERATING COMPANY  
 SW 1/4 SE 1/4 SECTION 31  
 T7N R63W, 6TH PM  
 WELD COUNTY, COLORADO



1843 Sunlight Dr.  
 Longmont, CO 80504  
 303.378.4036

Figure

3

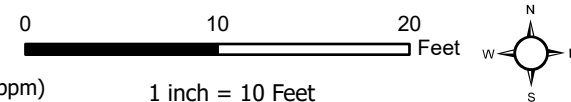


**LABEL LEGEND**  
 SS#-#: SOIL SAMPLE - DEPTH BELOW GROUND SURFACE (FEET)  
 EX: EXCAVATION SAMPLE  
 GW: GROUNDWATER SAMPLE  
 PID: PHOTOIONIZATION DETECTOR  
 GRO: GASOLINE RANGE ORGANICS  
 DRO: DIESEL RANGE ORGANICS  
 RRO: RESIDUAL RANGE ORGANICS  
 TPH: TOTAL PETROLEUM HYDROCARBONS  
 TMB: TRIMETHYLBENZENE  
 mg/kg: MILLIGRAMS PER KILOGRAM

**LEGEND**

- Soil Sample
- ▲ Groundwater Sample
- Test Pit
- Soil Sample - Removed by Excavation
- - - Flowline Removed
- - - Gas Sales Line Removed
- - - Initial Excavation Extent
- Final Excavation Extent

**NOTES:**  
 - Sample Label (PID Result in ppm)  
 - ppm = parts per million



Project No: 022-009

Map By: JW

Date: 05/16/2022

**HEINZE #1 PRODUCTION FACILITY**  
**EXCAVATION CONFIRMATION SOIL SAMPLE LOCATIONS**  
 GREAT WESTERN OPERATING COMPANY  
 SW 1/4 SE 1/4 SECTION 31  
 T7N R63W, 6TH PM  
 WELD COUNTY, COLORADO



1843 Sunlight Dr.  
 Longmont, CO 80504  
 303.378.4036

Figure

4










Gas Sales Line from Heinze #2 Tank Battery (removed)

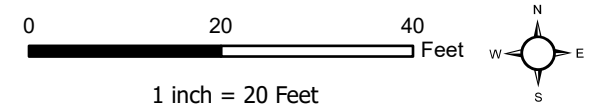
GW01	
2/28/2022	
Benzene (mg/kg):	40.7
Toluene (mg/kg):	181
Ethylbenzene (mg/kg):	<1.00
Total Xylenes (mg/kg):	315
Napthalene (mg/kg):	49.7
1,2,4-TMB (mg/kg):	253
1,3,5-TMB (mg/kg):	56.7

GW02	
3/3/2022	
Benzene (mg/kg):	<1.00
Toluene (mg/kg):	<1.00
Ethylbenzene (mg/kg):	<1.00
Total Xylenes (mg/kg):	<1.00
Napthalene (mg/kg):	<2.00
1,2,4-TMB (mg/kg):	<2.00
1,3,5-TMB (mg/kg):	<2.00

**LABEL LEGEND**  
GW: GROUNDWATER SAMPLE

**LEGEND**

-  Proposed Monitoring Well
-  Groundwater Sample
-  Flowline Removed
-  Gas Sales Line Removed
-  Estimated Groundwater Flow
-  Initial Excavation Extent
-  Final Excavation Extent



Project No: 022-009

Map By: JW

Date: 05/13/2022

**HEINZE #1 PRODUCTION FACILITY**  
**PROPOSED MONITORING WELL LOCATIONS**  
GREAT WESTERN OPERATING COMPANY  
SW 1/4 SE 1/4 SECTION 31  
T7N R63W, 6TH PM  
WELD COUNTY, COLORADO



1843 Sunlight Dr.  
Longmont, CO 80504  
303.378.4036

Figure

5

## **TABLES**

**TABLE 1**  
**Soil Sample and Field Screening Information**  
**Heinze #1 Tank Battery, Weld County, CO**

Sample Information				
Sample ID	Depth	Sample Date	Latitude	Longitude
Units -->	ft-bgs	mm/dd/yyyy	Decimal Degree (NAD83)	
FS1-1	1	2/24/2022	40.524878	-104.475065
FS2-1	1	2/24/2022	40.524879	-104.475101
FS3-1	1	2/24/2022	40.524845	-104.475102
FS4-1	1	2/24/2022	40.524842	-104.475064
FS9-5	5	2/25/2022	40.524724	-104.475196
FS10-2	2	2/28/2022	40.524774	-104.475135
FS11-5	5	2/28/2022	40.524764	-104.475132
FS12-2	2	2/28/2022	40.524777	-104.475084
FS13-5	5	2/28/2022	40.524766	-104.475083
FS14-4	4	2/28/2022	40.524725	-104.475241
FS15-5	5	2/28/2022	40.524739	-104.475601
FS16-4	4	2/28/2022	40.524719	-104.475377
FS16-5	5	2/28/2022	40.524719	-104.475377
FS17-5	5	2/28/2022	40.524637	-104.475152
FS19-6	6	3/1/2022	40.524707	-104.475132
FS35-6	6	3/3/2022	40.524711	-104.474996
FS36-6	6	3/3/2022	40.524695	-104.475431
FS57-5	5	3/7/2022	40.524765	-104.475179
SS1-1	1	2/24/2022	40.52474763	-104.4755639
SS3-1	1	2/25/2022	40.52474966	-104.4754971
SS4-2	2	2/28/2022	40.52474204	-104.4751341
SS5-2	2	2/28/2022	40.52474122	-104.4750896
WC01-3	3	2/25/2022	40.52478983	-104.4754298
EX01-5	5	3/14/2022	40.52473274	-104.4753583
EX02-5	5	3/11/2022	40.52477085	-104.4753274
EX03-5	5	3/11/2022	40.52480122	-104.4753731
EX04-5	5	3/11/2022	40.52481015	-104.4754313
EX05-5	5	3/11/2022	40.52477428	-104.4754516
EX06-5	5	3/11/2022	40.5247348	-104.4754231
EX07-5	5	3/11/2022	40.52469461	-104.4754117
EX08-2	2	3/11/2022	40.52475585	-104.4750871
EX09-2	2	3/11/2022	40.52474312	-104.4750654
EX10-2	2	3/11/2022	40.52472775	-104.4750862
EX11-5	5	3/11/2022	40.52474122	-104.4750893
EX12-5	5	3/28/2022	40.52478078	-104.4750706
EX13-5	5	3/28/2022	40.52475005	-104.4750323
EX14-5	5	3/28/2022	40.52471846	-104.475067
EX15-5	5	3/28/2022	40.52472381	-104.4751251
EX16-5	5	3/28/2022	40.52476818	-104.4751407
BG1-1	1	2/25/2022	40.52513123	-104.4756256
BG1-3	3	2/25/2022	40.52513123	-104.4756256
BG2-1	1	2/25/2022	40.52516367	-104.4751651
BG2-3	3	2/25/2022	40.52516367	-104.4751651

Notes:

ft-bgs - feet below ground surface



**TABLE 2**  
**Analytical Results Summary: Waste Characterization and Background Soil Samples**  
**Heinze #1 Tank Battery, Weld County, CO**

Analyte	COGCC Table 915-1 GWSSL	WC01-3 (AST area)	EX11-5 (Separator area)	BG1-1	BG1-3	BG2-1	BG2-3	Units
Sample Date	-	2/25/2022	3/11/2022	2/25/2022	2/25/2022	2/25/2022	2/25/2022	mm/dd/yyyy
Sample Depth	-	3	5	1	3	1	3	ft-bgs
Field Screening	-	1,139	35.0	-	-	-	-	ppm
<b>TPH in Soils</b>								
gasoline range organics	500	214	1,550	-	-	-	-	mg/kg
diesel range organics	500	603	8,220	-	-	-	-	mg/kg
residual range organics	500	224	3,480	-	-	-	-	mg/kg
total petroleum hydrocarbons	500	1,041	13,250	-	-	-	-	mg/kg
<b>Organic Compounds in Soils</b>								
benzene	0.0026	0.0528	0.522	-	-	-	-	mg/kg
toluene	0.69	<0.00200	0.407	-	-	-	-	mg/kg
ethylbenzene	0.78	1.98	14.7	-	-	-	-	mg/kg
total xylenes	9.9	9.72	72.7	-	-	-	-	mg/kg
1,2,4-trimethylbenzene	0.0081	6.79	48.2	-	-	-	-	mg/kg
1,3,5-trimethylbenzene	0.0087	1.90	15.4	-	-	-	-	mg/kg
acenaphthene	0.55	0.103	0.103	-	-	-	-	mg/kg
anthracene	5.8	0.00686	0.0216	-	-	-	-	mg/kg
benzo(a)anthracene	0.011	0.00881	0.0159	-	-	-	-	mg/kg
benzo(b)fluoranthene	0.3	<0.0067	<0.0134	-	-	-	-	mg/kg
benzo(k)fluoranthene	2.9	<0.0067	0.0195	-	-	-	-	mg/kg
benzo(a)pyrene	0.24	0.00533	0.00964	-	-	-	-	mg/kg
chrysene	9	0.103	0.121	-	-	-	-	mg/kg
dibenzo(a,h)anthracene	0.096	<0.0067	<0.0134	-	-	-	-	mg/kg
fluoranthene	8.9	0.0061	<0.0134	-	-	-	-	mg/kg
fluorene	0.54	0.363	0.348	-	-	-	-	mg/kg
indeno(1,2,3-cd)pyrene	0.98	<0.0067	<0.0134	-	-	-	-	mg/kg
1-methylnaphthalene	0.006	3.1	2.15	-	-	-	-	mg/kg
2-methylnaphthalene	0.019	4.04	3.14	-	-	-	-	mg/kg
naphthalene	0.0038	1.24	4.20	-	-	-	-	mg/kg
pyrene	1.3	0.0357	0.0319	-	-	-	-	mg/kg
<b>Metals in Soil</b>								
arsenic	0.29	2.91	2.3	1.69	1.54	1.44	3.08	mg/kg
barium	82	85.3	50.4	23.1	42.1	26	39.7	mg/kg
cadmium	0.38	0.113	0.114	-	-	-	-	mg/kg
chromium (VI)	0.00067	<0.517*	<0.505*	-	-	-	-	mg/kg
copper	46	6.52	3.96	-	-	-	-	mg/kg
lead	14	7.34	4.94	-	-	-	-	mg/kg
nickel	26	7.54	4.72	-	-	-	-	mg/kg
selenium	0.26	0.374	<0.25	0.267	0.323	0.286	0.208	mg/kg
silver	0.8	0.0332	0.0637	-	-	-	-	mg/kg
zinc	370	30.1	18.1	-	-	-	-	mg/kg
<b>Soil Suitability Parameters</b>								
EC	4	0.336	0.766	2.44	2.79	0.721	1.22	mmhos/cm
SAR	6	0.585	2.12	9.60	4.44	3.75	4.71	Unitless
pH	6-8.3	7.71	7.50	8.71	7.92	8.51	8.31	Unitless
boron	2	0.200	0.238	0.694	0.178	0.406	0.0987	mg/l

**Notes:**

COGCC - Colorado Oil and Gas Conservation Commission  
 GWSSL - Protection of Groundwater Soil Screening Level  
 SS#-#: Soil Sample ID - depth in ft-bgs  
 ft-bgs - feet below ground surface  
 ppm - parts per million  
 TPH - total petroleum hydrocarbons  
 mg/kg - milligrams per kilogram

EC - electrical conductivity  
 mmhos/cm - millimhos per centimeter  
 SAR - sodium adsorption ratio  
 mg/l - milligrams per liter  
 \* - compliant per Table 915-1 footnote 9 - result was below the laboratory method detection limit  
 < - indicates result was not detected and is less than the laboratory reporting limit  
**RED - indicates result is above the Table 915-1 GWSSL**

**TABLE 3**  
**Analytical Results Summary: Facility Closure Confirmation Soil Samples**  
**Heinze #1 Tank Battery. Weld County, CO**

Sample Information				Organic Compounds in Soils							TPH in Soils			
Sample ID	Depth	Sample Date	PID Field Screening	Benzene	Toluene	Ethyl-benzene	Total xylenes	1,2,4-TMB	1,3,5-TMB	Naphthalene	GRO	DRO	ORO	TPH
Units -->	ft-bgs	mm/dd/yyyy	ppm	mg/kg										
COGCC Table 915-1 GWSSLs -->				0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038	500	500	500	500
SS1-1	1	2/24/2022	0.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380	<0.200	<25.0	<100	<125
SS3-1	1	2/25/2021	0.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380	<0.200	<25.0	<100	<125
SS4-2	2	2/28/2022	238	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380	<0.200	<25.0	<100	<125
SS5-2	2	2/28/2022	396	<0.00200	<0.00200	<0.00200	0.0714	0.00296	0.0296	<0.00380	3.20	2,140	1,070	3,213

Notes:

TPH - total petroleum hydrocarbons

PID - photo ionization detector

TMB - trimethylbenzene

GRO - gasoline range organics

DRO - diesel range organics

ORO - oil range organics

ft-bgs - feet below ground surface

ppm - parts per million

mg/kg - milligrams per kilogram

COGCC - Colorado Oil and Gas Conservation Commission

GWSSL - Protection of Groundwater Soil Screening Level

< - indicates result was not detected and is less than the laboratory reporting limit

**RED - indicates result is above the Table 915-1 GWSSL**

Indicates sample location was removed by excavation



**TABLE 4**  
**Groundwater Grab Sample Analytical Results Summary**  
**Heinze #1 Tank Battery, Weld County, CO**

Sample Information			Organic Compounds in Groundwater						
Sample ID	Depth	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Naphthalene	1,2,4-TMB	1,3,5-TMB
Units -->	ft-bgs	mm/dd/yyyy	µg/l						
COGCC Table 915-1 Standard -->			5	560	700	1,400	140	67	67
GW01	~10	2/28/2022	40.7	<1.00	181	315	49.7	253	56.7
GW02	~10	3/3/2022	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00

Notes:

ft-bgs - feet below ground surface

µg/l - micrograms per liter

COGCC - Colorado Oil and Gas Conservation Commission

~ - denotes approximation

TMB - Trimethylbenzene

< - indicates result is less than laboratory reporting limit

TABLE 5  
Analytical Results Summary: AST Excavation Confirmation Soil Samples  
Heinze #1 Tank Battery, Weld County, CO

Analyte	COGCC Table 915-1 GWSSL	EX01-5	EX02-5	EX03-5	EX04-5	EX05-5	EX06-5	EX07-5	Units
<b>Sample Information</b>									
Sample Date	-	3/11/2022	3/11/2022	3/11/2022	3/11/2022	3/11/2022	3/11/2022	3/11/2022	mm/dd/yyyy
Sample Depth	-	5	5	5	5	5	5	5	ft-bgs
Field Screening	-	0.7	10.2	0.7	0.3	7.1	1	0.9	ppm
<b>TPH in Soils</b>									
gasoline range organics	-	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	mg/kg
diesel range organics	-	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	mg/kg
residual range organics	-	<100	<100	<100	<100	<100	<100	<100	mg/kg
total petroleum hydrocarbons	-	<125	<125	<125	<125	<125	<125	<125	mg/kg
<b>Organic Compounds in Soils</b>									
benzene	0.0026	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	mg/kg
toluene	0.69	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	mg/kg
ethylbenzene	0.78	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	mg/kg
total xylenes	9.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	mg/kg
1,2,4-trimethylbenzene	0.0081	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	mg/kg
1,3,5-trimethylbenzene	0.0087	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	mg/kg
acenaphthene	0.55	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	mg/kg
anthracene	5.8	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	mg/kg
benz(a)anthracene	0.011	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	mg/kg
benzo(b)fluoranthene	0.3	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	mg/kg
benzo(k)fluoranthene	2.9	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	mg/kg
benzo(a)pyrene	0.24	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	mg/kg
chrysene	9	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	mg/kg
dibenzo(a,h)anthracene	0.096	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	mg/kg
fluoranthene	8.9	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	mg/kg
fluorene	0.54	<0.00067	<0.00067	<0.00067	<0.00067	0.000384	<0.00067	<0.00067	mg/kg
indeno(1,2,3-cd)pyrene	0.98	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	mg/kg
1-methylnaphthalene	0.006	<0.00067	<0.00067	<0.00067	<0.00067	0.00082	<0.00067	<0.00067	mg/kg
2-methylnaphthalene	0.019	<0.00067	<0.00067	<0.00067	<0.00067	0.000725	<0.00067	<0.00067	mg/kg
naphthalene	0.0038	<0.00380	<0.00380	<0.00380	<0.00380	<0.00380	<0.00380	<0.00380	mg/kg
pyrene	1.3	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	mg/kg
<b>Metals in Soils</b>									
barium	82	42.9	31.1	55.4	59.2	64.7	48.1	35.6	mg/kg
selenium	0.26	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	mg/kg

Notes:

COGCC - Colorado Oil and Gas Conservation Commission  
GWSSL - Protection of Groundwater Soil Screening Level  
EX#-#: Excavation Soil Sample ID - depth in ft-bgs  
ft-bgs - feet below ground surface

ppm - parts per million  
TPH - total petroleum hydrocarbons  
mg/kg - milligrams per kilogram  
< - indicates result was not detected and is below the laboratory reporting limit

**TABLE 6**  
**Analytical Results Summary: Separator Excavation Confirmation Soil Samples**  
**Heinze #1 Tank Battery, Weld County, CO**

Analyte	COGCC Table 915-1 GWSSL	EX08-2	EX09-2	EX10-2	SS4-2	EX12-5	EX13-5	EX14-5	EX15-5	EX16-5	Units
<b>Sample Information</b>											
Sample Date	-	3/11/2022	3/11/2022	3/11/2022	2/28/2022	3/28/2022	3/28/2022	3/28/2022	3/28/2022	3/28/2022	mm/dd/yyyy
Sample Depth	-	2	2	2	2	5	5	5	5	5	ft-bgs
Field Screening	-	21	2.3	3.5	238	3.8	1.5	1.8	6.9	3.0	ppm
<b>TPH in Soils</b>											
gasoline range organics	-	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	mg/kg
diesel range organics	-	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	mg/kg
residual range organics	-	<100	<100	<100	<100	<100	<100	<100	<100	<100	mg/kg
total petroleum hydrocarbons	-	<125	<125	<125	<125	<125	<125	<125	<125	<125	mg/kg
<b>Organic Compounds in Soils</b>											
benzene	0.0026	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	mg/kg
toluene	0.69	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	mg/kg
ethylbenzene	0.78	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	mg/kg
total xylenes	9.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	mg/kg
1,2,4-trimethylbenzene	0.0081	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	mg/kg
1,3,5-trimethylbenzene	0.0087	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	mg/kg
acenaphthene	0.55	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	mg/kg
anthracene	5.8	<0.00067	<0.00067	0.000763	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	mg/kg
benz(a)anthracene	0.011	<0.00067	<0.00067	0.00218	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	mg/kg
benzo(b)fluoranthene	0.3	<0.00067	<0.00067	0.00275	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	mg/kg
benzo(k)fluoranthene	2.9	<0.00067	<0.00067	0.00192	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	mg/kg
benzo(a)pyrene	0.24	<0.00067	<0.00067	0.00215	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	mg/kg
chrysene	9	<0.00067	<0.00067	0.00364	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	mg/kg
dibenzo(a,h)anthracene	0.096	<0.00067	<0.00067	0.00366	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.0027	mg/kg
fluoranthene	8.9	<0.00067	<0.00067	0.00159	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	mg/kg
fluorene	0.54	<0.00067	<0.00067	0.00115	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	mg/kg
indeno(1,2,3-cd)pyrene	0.98	<0.00067	<0.00067	0.00419	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.00248	mg/kg
1-methylnaphthalene	0.006	0.000372	<0.00067	0.00239	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	mg/kg
2-methylnaphthalene	0.019	<0.00067	<0.00067	0.000768	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	mg/kg
naphthalene	0.0038	<0.00380	<0.00380	<0.00380	<0.00380	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	mg/kg
pyrene	1.3	<0.00067	<0.00067	0.00234	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	mg/kg
<b>Metals in Soils</b>											
barium	82	88.8	60.8	63.9	51.7	-	-	-	-	-	mg/kg
selenium	0.26	<0.25	<0.25	<0.25	<0.25	-	-	-	-	-	mg/kg

**Notes:**

COGCC - Colorado Oil and Gas Conservation Commission  
 GWSSL - Protection of Groundwater Soil Screening Level  
 SS#-#: Soil Sample ID - depth in ft-bgs  
 EX#-#: Excavation Soil Sample ID - depth in ft-bgs  
 ft-bgs - feet below ground surface  
 Indicates sample location was removed by excavation

ppm - parts per million  
 TPH - total petroleum hydrocarbons  
 mg/kg - milligrams per kilogram  
 < - indicates result was not detected and is below the laboratory reporting limit  
**RED - indicates result is above the Table 915-1 GWSSL**

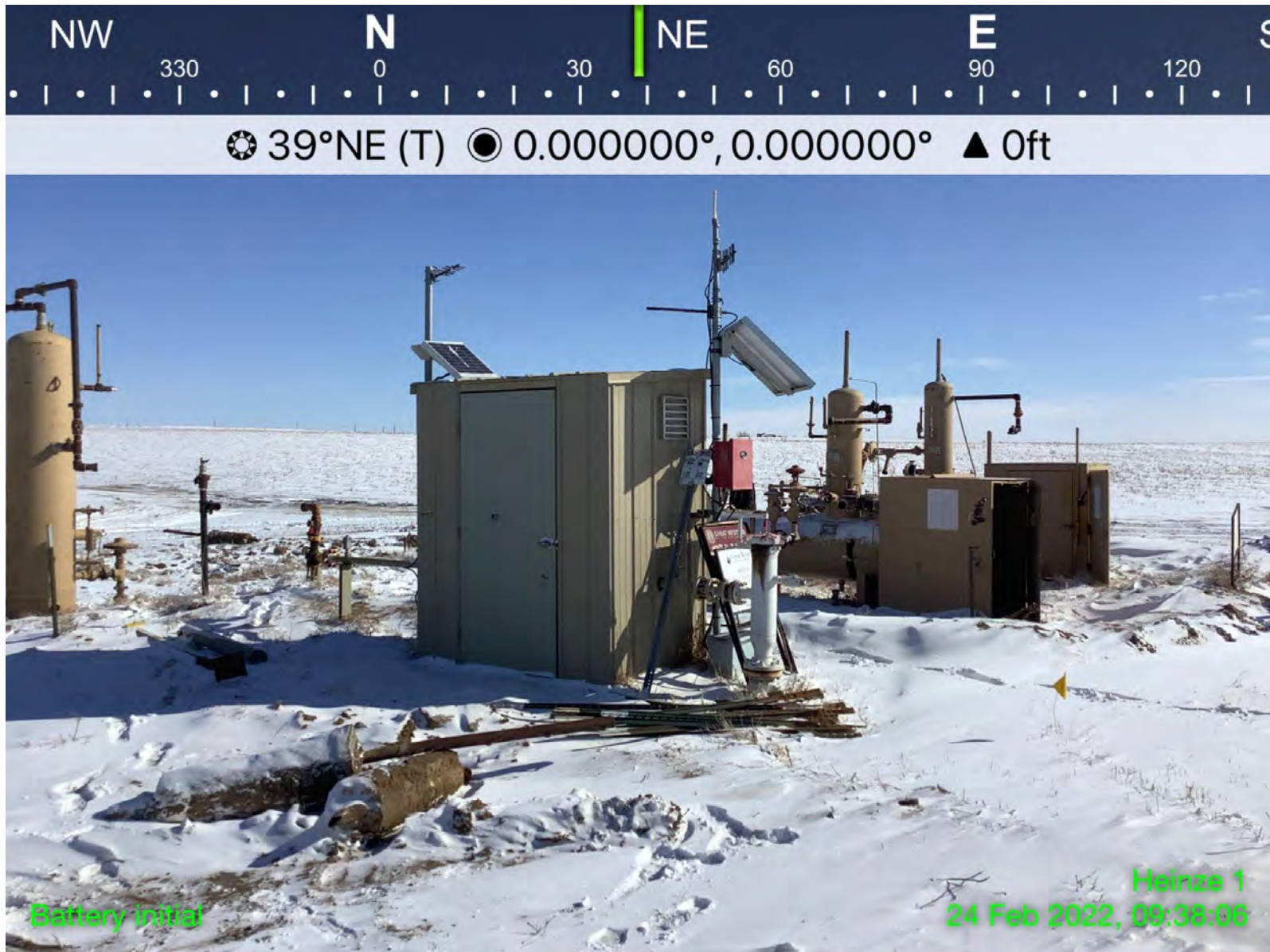
**ATTACHMENT A**  
**PHOTOGRAPHIC LOG**

Photographic Log





Photographic Log





Photographic Log



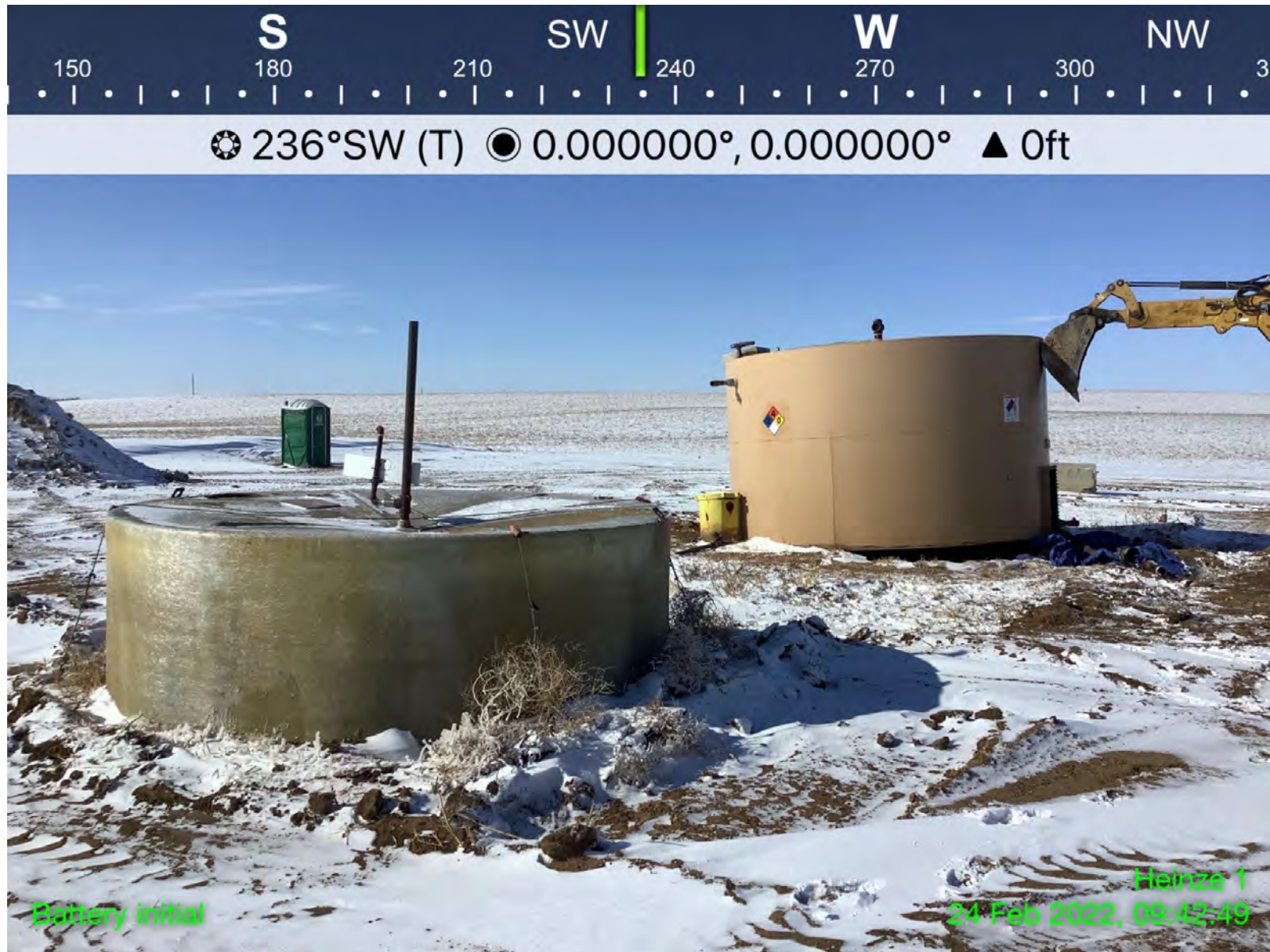


# Photographic Log





Photographic Log





Photographic Log



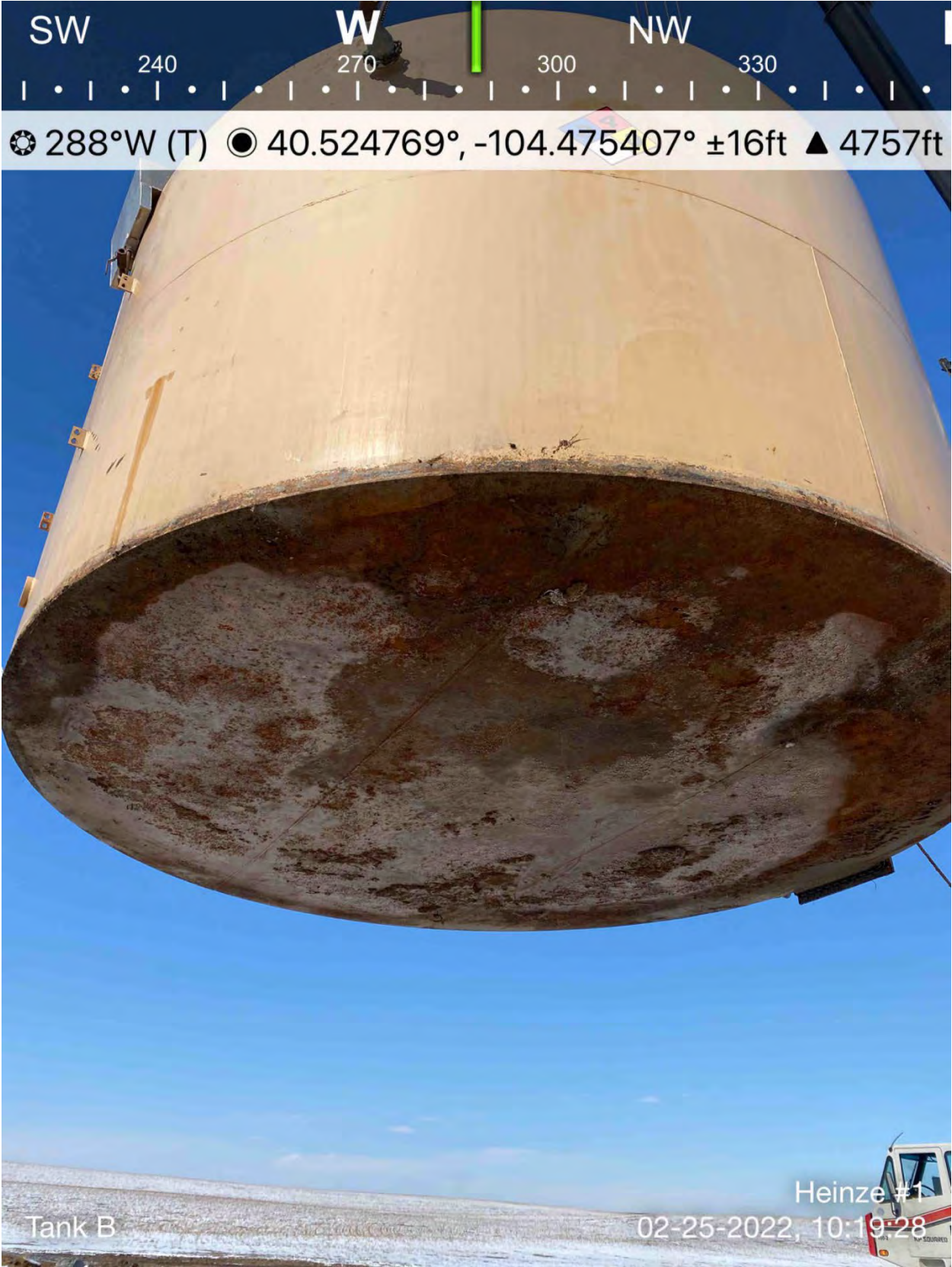


Photographic Log





Photographic Log



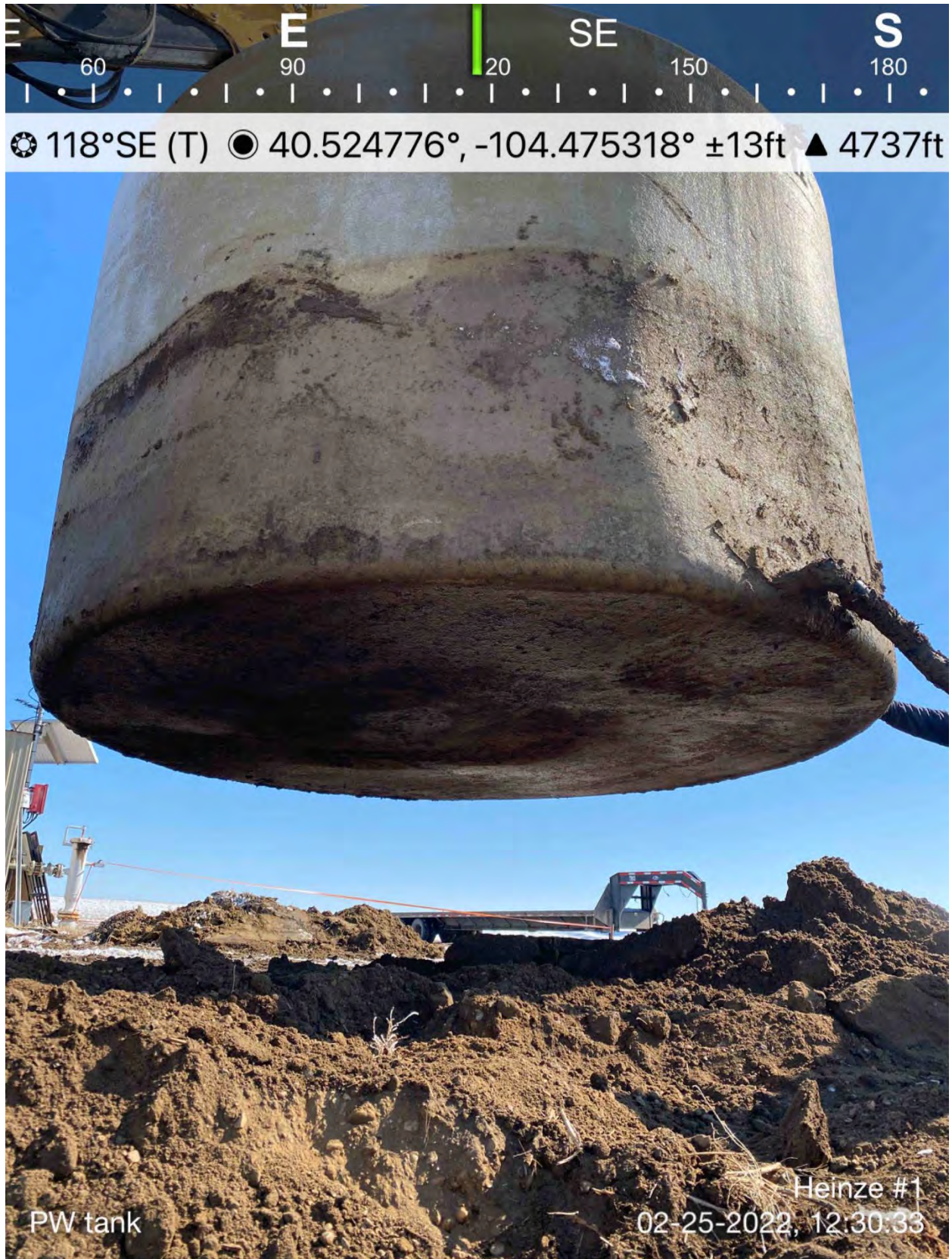


Photographic Log





Photographic Log





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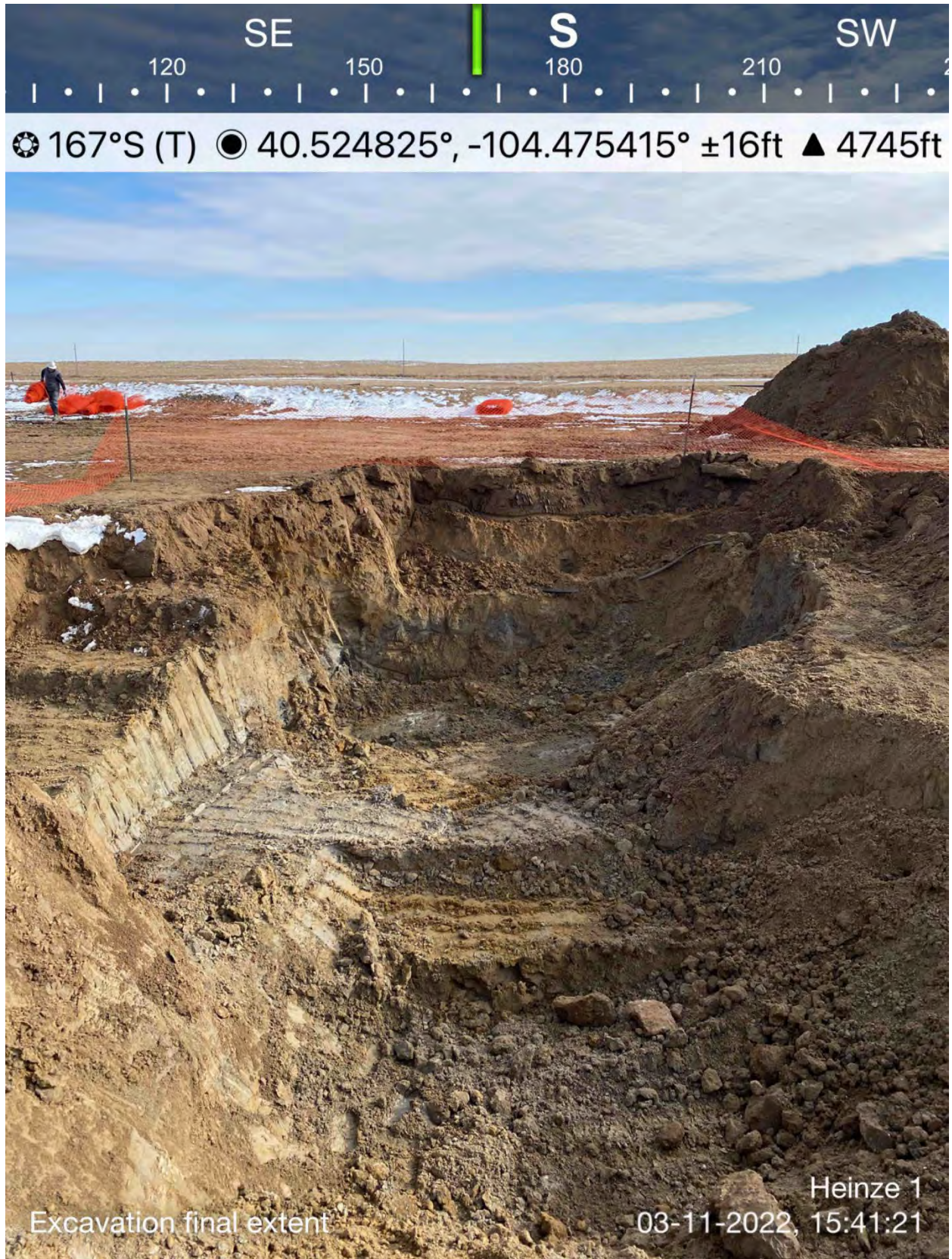


Photographic Log





Photographic Log





Photographic Log



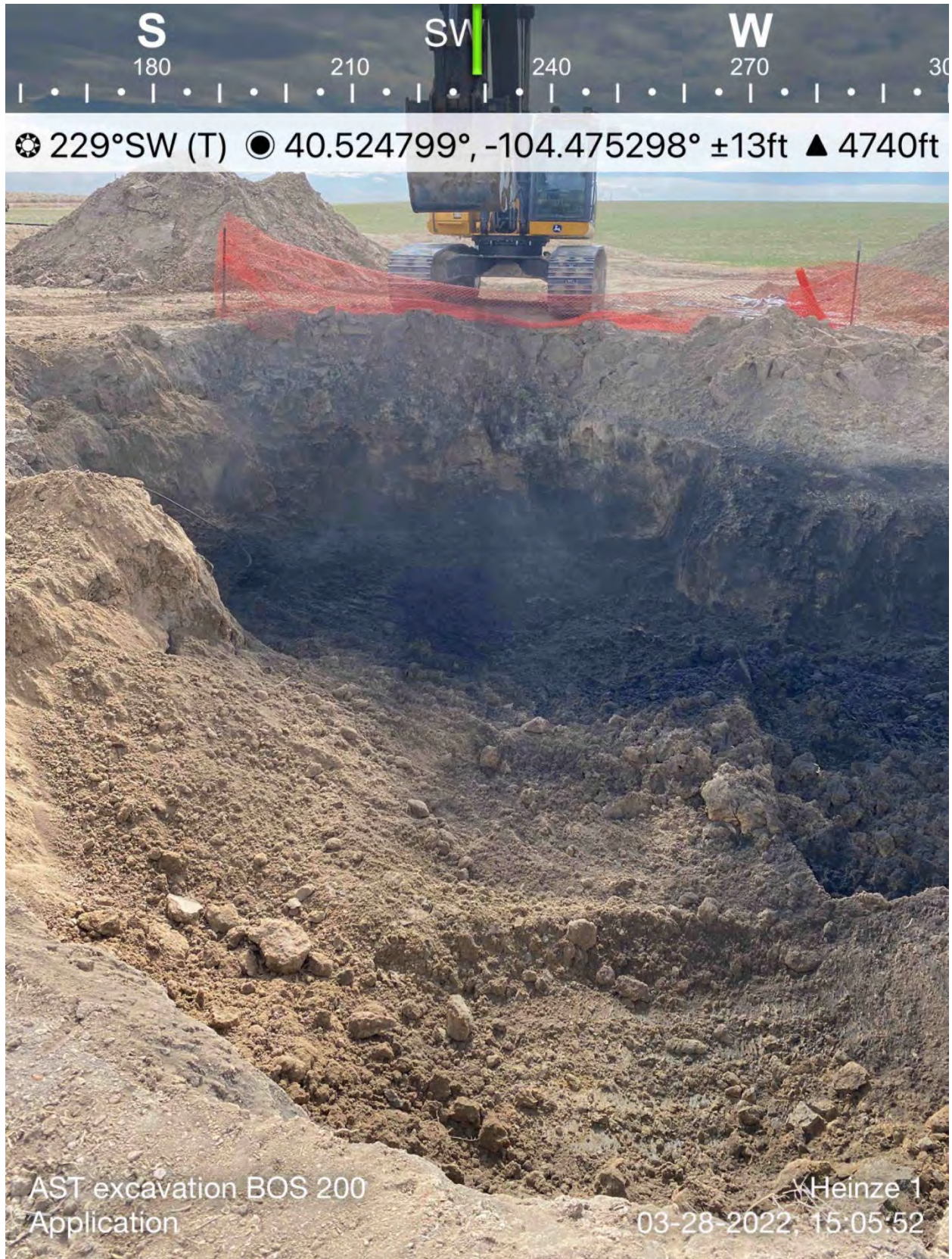


Photographic Log





Photographic Log





Photographic Log





Photographic Log





Photographic Log





Photographic Log





Photographic Log



SW W NW  
210 240 270 300 330

☉ 261°W (T) ☉ 40.524757°, -104.474936° ±13ft ▲ 4740ft

Separator excavation  
final extent

Heinze 1  
03-28-2022, 15:07:03



**ATTACHMENT B**  
**FACILITY CLOSURE CHECKLISTS**



## Tank Battery Closure Checklist

### COGCC Rule 911.a.(4) Environmental Site Closure Assessment Field Form

Additional attachments (optional):		Pit Closure		Wellhead Closure		Flowline Closure		Partially Buried Vault Closure	
Site Name & COGCC Facility Number: 417318		Date:						Remediation Project #: 21791	
Associated Wells: 31-44, 31-24, 31-14, 31-34		Age of Site: 2008						Number of Photos Attached: 39	
Location: (GPS coordinates of southeaster berm)		40.524707°, -104.475326°						Estimated Facility Size (acres): 1	
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.)									
GOOD									
USCS Soil Type: ML/SM					Estimated Depth to Groundwater: ~6' bgs				
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)									
YES, BENEATH EAST AST AND PLV VAULT, SEE REPORT									
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)									
NONE									
LWT MID. EAST Tanks									
Tank Contents	OIL	OIL	OIL						
Size (barrels)	400	400	400						
Age	UNKNOWN								
Construction	STEEL								
Tank type	AST								
Visual Integrity	GOOD								
Condition of tank	GOOD								
PID Readings	2.0	0.1	NM						
Soil impacts present at valves or hatches?	N	N	Y						
PID Readings	NM								
Sample taken? Location/ Sample ID#	SS1-1	SS3-1							
Photo Number(s)	6	8,9	7						
Other observations regarding tanks:									
EAST LWT Separators									
Separator size	UNKNOWN								
Vertical or Horizontal?	HORIZONTAL								
Age	UNKNOWN								
Soil impacts	AY	N							
PID Readings	2.0	2.0							
Sample taken? Location/ Sample ID#	SS5-2	SS4-2							
Photo Number(s)	3, 4, 14, 15, 16, 18, 38								
Other observations regarding separators									
4 Third Party Equipment									
Type	ECG								
Age	7								



Third Party	?								
Removal Date	7								
Sample taken?	FS1- FS4								
PID Readings	0 - 2.8								
Photo Number(s)									

### Other Facility Equipment

Equipment type	MFTM				
Equipment	?				
Age	?				
Soil impacts	N				
PID Readings	0.6				
Sample taken?	FS57/ FS59				
Photo Number(s)					

Other observations regarding other facility or third party equipment:

### Summary

Was impacted soil identified?		No		Yes - less than 10 cubic yards		Yes - more than 10 cubic yards → AT AST AND SEPS	
Total number of samples field screened:		18		Total number of samples collected:		21	
Highest PID Reading:		1,139ppm		Total number of samples submitted to lab for analysis:		21	
If more than 10 cubic yards of impacted soil were observed:							
Vertical extent:		AST (12' by 1') SEPS (15' by 1')		Estimated spill volume:		?	
Lateral extent:		AST (40' x 30') SEPS (20' x 30')		Volume of soil removed:		~ 800 CY	
Is additional investigation required? N							
Was groundwater encountered during the investigation?				Yes - groundwater impacted and/or in contact with impacted soils			
No				Yes - not impacted or in contact with impacted soils			
Measured depth to groundwater:		5' 6" x		Was remedial groundwater removal conducted?		Yes No	
Date Groundwater was encountered:		2/28/22		Commencement date of removal:		?	
Sheen on groundwater?		Yes (No)		Volume of groundwater removed prior to sampling:			
Free product observed?		Yes (No)		Volume of groundwater removed post sampling:			
Total number of samples collected:		2		Total Volume of groundwater removed:			
Total number of samples submitted to lab for analysis:		2					



# HEINZE 1 TANK BATTERY

## Buried or Partially Buried Vessel Closure Checklist COGCC Rule 911.a.(4) Environmental Site Closure Assessment Field Form

Additional attachments (optional):	Pit Closure	Wellhead Closure	Flowline Closure	Tank Battery Closure
Site Name & COGCC Facility Number: 417318	Date:	Remediation Project #: 21791		
Associated Wells: 31-44, 31-24, 31-14, 31-34	Age of Site: 2005	Number of Photos Attached:		
Location: (GPS coordinates of vault or southeastern tank berm for multiple) 40.524707, -104.475326				Estimated Facility Size (acres): 1
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.) Good				
USCS Soil Type: ML/SM		Estimated Depth to Groundwater: 5'6" ±		
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) YES, REPEAT EAST/ST/IN VAULT, SEE REPORT				
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)				
<b>Buried or Partially Buried Vessels</b>				
Tank Contents	200			
Size (barrels)	200			
Age	?			
Construction	FIRMOLITE			
Visual Integrity	OK			
Condition of tank	GOOD			
PID Readings	NM			
Condition of	GOOD/STAIN			
PID Readings	NM			
Sample taken?				
Location/Sample ID#				
Photo Number(s)	5, 10, 12, 13			
Other observations regarding partially buried vessels:				
<b>Summary</b>				
Was impacted soil identified? No Yes - less than 10 cubic yards Yes - more than 10 cubic yards				
Total number of samples field screened:		Total number of samples collected: 7		
Highest PID Reading:		Total number of samples submitted to lab for analysis: 7		
If more than 10 cubic yards of impacted soil were observed:				
Vertical extent: 12'6" ±		Estimated spill volume: ?		
Lateral extent: 4' x 30'		Volume of soil removed: ~400 CY		
Is additional investigation required? N				
Was groundwater encountered during the investigation? No Yes - not impacted or in contact with impacted soils Yes - groundwater impacted and/or in contact with impacted soils				
Measured depth to groundwater: 5'		Was remedial groundwater removal conducted? (Yes) No		
Date Groundwater was encountered: 2/28/22		Commencement date of removal: ?		
Seen on groundwater? Yes (No)		Volume of groundwater removed prior to sampling: ?		
Free product observed? Yes (No)		Volume of groundwater removed post sampling: ?		
Total number of samples collected: 1		Total Volume of groundwater removed: 5		
Total number of samples submitted to lab for analysis: 1				



**ATTACHMENT C**  
**LABORATORY ANALYTICAL REPORTS**



March 11, 2022

Entrada Consulting Group

Ben Baugh

330 Grand Ave. Unit C

Grand Junction CO 81501

**Project Name - Heinze #1**

**Project Number - -**

Attached are your analytical results for Heinze #1 received by Origins Laboratory, Inc. February 25, 2022. This project is associated with Origins project number Y202563-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.  
303.433.1322  
o-squad@oelabinc.com





Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: -

Project: Heinze #1

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WC01-3	Y202563-01	Soil	February 25, 2022 10:50	02/25/2022 16:28

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Entrada Consulting Group  
330 Grand Ave. Unit C  
Grand Junction CO 81501

Ben Baugh  
Project Number: -  
Project: Heinze #1

Bill To: JASON DAVIDSON

www.originslaboratory.com

page 1 of 1

**ORIGINS**  
LABORATORY, INC

4202563

Client: Entrada Consulting Group  
Address:   
Project Manager: Ben Baugh  
Project Name: HEINZE #1  
Project Number:   
Telephone Number: 435-630-4748  
Email Address: JIMMIE@ENTRADA-CONSULTING-INC.COM, JIMMIE@ENTRADA-CONSULTING-INC.COM

Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions	
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	At Surface			Other
W621-3	2/25/22	1050	2	X					X			Full Table 915-1	1
													2
													3
													4
													5
													6
													7
													8
													9
													10

Relinquished By: [Signature] Date: 2/25/22 Time: 1425  
Relinquished By: [Signature] Date: 2/25/22 Time: 16:28

Turnaround Time: Same Day ☒ 24 Hr ☐ 48 Hr ☐ 72 Hr ☐ Standard ☐

Date Results Needed ASAP

8

Origins Laboratory, Inc.

*Jefe Pellegrini*

Jen Pellegrini, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: -

Project: Heinze #1

Origins Laboratory

## Sample Receipt Checklist

F-012207-01-R1  
Effective Date: 01/09/12

Origins Work Order: 1202503

Client: Entrada

Client Project ID: Heinze #1

Checklist Completed by: KA

Shipped Via: HD

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 2/25/12

Airbill #: NA

Matrix(s) Received: (Check all that apply):

☒ Soil/Solid

☐ Water

☐ Other:

(Describe)

Cooler Number/Temperature: 1 / 5.1 °C /     °C /     °C /     °C

Thermometer ID: TC03

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		<u>same day</u>
Is there ice present (document if blue ice is used)?	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager)

Date/Time Reviewed

Origins Laboratory, Inc.

*Jen Pellegrini*

Jen Pellegrini, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Entrada Consulting Group  
330 Grand Ave. Unit C  
Grand Junction CO 81501

Ben Baugh  
Project Number: -  
Project: Heinze #1

## WC01-3

2/25/2022 10:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

## Origins Laboratory, Inc. Y202563-01 (Soil)

### Boron (DTPA Sorbitol)

Boron	0.200	0.100	mg/L	1	B2B2812	02/28/2022	03/01/2022
-------	-------	-------	------	---	---------	------------	------------

### DRO/ORO by EPA 8015D

Diesel (C10-C28)	603	25.0	mg/kg	1	B2B2509	02/25/2022	02/26/2022
Residual Range Organics (C28-C40)	224	100	"	"	"	"	"

Surrogate: o-Terphenyl	105 %	50-150	"	"	"
------------------------	-------	--------	---	---	---

### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	6.79	0.0500	mg/kg	25	B2B2510	02/25/2022	02/26/2022
1,3,5-Trimethylbenzene	1.90	0.0500	"	"	"	"	"
Benzene	0.0528	0.00200	"	1	"	"	02/28/2022
Ethylbenzene	1.98	0.0500	"	25	"	"	02/26/2022
Toluene	ND	0.00200	"	1	"	"	02/28/2022 U
Xylenes, total	9.72	0.0500	"	25	"	"	02/26/2022
Gasoline Range Hydrocarbons	214	5.00	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	93.4 %	70-130	"	"	"
Surrogate: Toluene-d8	91.4 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	120 %	70-130	"	"	"

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager



Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: -

Project: Heinze #1

WC01-3

2/25/2022 10:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.

Y202563-01 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	2.35	0.499	meq/L	10	[CALC]	02/28/2022	03/01/2022
Magnesium	1.81	0.823	"	"	"	"	"
Sodium	2.67	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	3.1	0.00364	0.0067	mg/Kg	10	L602652	03/03/2022	03/03/2022
2-Methylnaphthalene	4.04	0.00645	0.0067	"	"	"	"	"
Acenaphthene	0.103	0.00304	0.0067	"	"	"	"	"
Anthracene	0.00686	0.00334	0.0067	"	"	"	"	"
Benzo(a)anthracene	0.00881	0.00493	0.0067	"	"	"	"	"
Benzo(a)pyrene	0.00533	0.00468	0.0067	"	"	"	"	J
Benzo(b)fluoranthene	ND	0.00585	0.0067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.00437	0.0067	"	"	"	"	"
Chrysene	0.103	0.00624	0.0067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.00614	0.0067	"	"	"	"	"
Fluoranthene	0.0061	0.00394	0.0067	"	"	"	"	J
Fluorene	0.363	0.00286	0.0067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.00627	0.0067	"	"	"	"	"
Naphthalene	1.24	0.00484	0.0067	"	"	"	"	"
Pyrene	0.0357	0.00643	0.0067	"	"	"	"	"
Surrogate: 2-Fluorobiphenyl	58.9 %		33-115			"	"	"
Surrogate: 4-Terphenyl-d14	63.4 %		33-122			"	"	"

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: -

Project: Heinze #1

WC01-3

2/25/2022 10:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

Waypoint Analytical, Inc.

Y202563-01 (Soil)

## PAH by 8270D SIM

Surrogate: Nitrobenzene-d5	84.6 %	29-110	L6026 52	03/03/2022	03/03/2022
----------------------------	--------	--------	-------------	------------	------------

## pH in Soil by 9045D

pH	7.71	pH Units	1	B2B2819	02/28/2022	03/01/2022
----	------	----------	---	---------	------------	------------

## SAR by 20B Saturated Paste

SAR	0.585	SAR	1	B2B2816	02/28/2022	03/01/2022
-----	-------	-----	---	---------	------------	------------

## Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.336	0.00500	mmhos/cm	1	B2B2818	02/28/2022	03/01/2022
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## Total Metals by 6020B

Arsenic	2.91	0.0855	0.25	mg/Kg	5	L602310	03/01/2022	03/05/2022	
Barium	85.3	0.042	0.25	"	"	"	"	"	
Cadmium	0.113	0.0259	0.25	"	"	"	"	"	J
Copper	6.52	0.0806	0.25	"	"	"	"	"	
Lead	7.34	0.031	0.25	"	"	"	"	"	
Nickel	7.54	0.0633	0.25	"	"	"	"	"	
Selenium	0.374	0.103	0.25	"	"	"	"	"	
Silver	0.0332	0.0067	0.25	"	"	"	"	"	J
Zinc	30.1	0.534	2.5	"	"	"	"	"	

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: -

Project: Heinze #1

WC01-3

2/25/2022 10:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	------------------------	--------------------	-------	----------	-------	----------	----------	-------

Waypoint Analytical, Inc.

Y202563-01 (Soil)

## Total Metals by 7196A

Chromium, Hexavalent	ND	0.252	0.517	mg/Kg	1	L603224	02/25/2022	03/07/2022
----------------------	----	-------	-------	-------	---	---------	------------	------------

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: -

Project: Heinze #1

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch B2B2509 - EPA 3550B**

**Blank (B2B2509-BLK1)**

Prepared: 02/25/2022 Analyzed: 02/25/2022

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	28		"	24.9		111	50-150			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: -

Project: Heinze #1

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch B2B2509 - EPA 3550B****LCS (B2B2509-BS1)**

Prepared: 02/25/2022 Analyzed: 02/25/2022

Diesel (C10-C28)	965	50.0	mg/kg	1000		96.5	70-130			
Residual Range Organics (C28-C40)	923	200	"	1000		92.3	70-130			
Surrogate: o-Terphenyl	52		"	49.8		105	50-150			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: -

Project: Heinze #1

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch B2B2509 - EPA 3550B**

Matrix Spike (B2B2509-MS1)		Source: Y202559-01			Prepared: 02/25/2022 Analyzed: 02/25/2022					
Diesel (C10-C28)	812	50.0	mg/kg	1000	ND	81.2	70-130			
Residual Range Organics (C28-C40)	771	200	"	1000	ND	77.1	70-130			
Surrogate: o-Terphenyl	42		"	49.8		84.9	50-150			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: -

Project: Heinze #1

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B2B2509 - EPA 3550B**

Matrix Spike Dup (B2B2509-MSD1)		Source: Y202559-01			Prepared: 02/25/2022 Analyzed: 02/25/2022					
Diesel (C10-C28)	969	50.0	mg/kg	1000	ND	96.9	70-130	17.7	35	
Residual Range Organics (C28-C40)	956	200	"	1000	ND	95.6	70-130	21.5	35	
Surrogate: o-Terphenyl	50		"	49.8		101	50-150			

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Grand Junction CO 81501

Ben Baugh

Project Number: -

Project: Heinze #1

## Extractable Petroleum Hydrocarbons by 8015D - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B2B2510 - EPA 5030 (soil)</b>										
<b>Blank (B2B2510-BLK1)</b>					Prepared: 02/25/2022 Analyzed: 02/25/2022					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.0100	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	106		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	98.8		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	102		70-130			

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330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: -

Project: Heinze #1

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B2B2510 - EPA 5030 (soil)**

**LCS (B2B2510-BS1)**

Prepared: 02/25/2022 Analyzed: 02/25/2022

1,2,4-Trimethylbenzene	0.0916	0.00200	mg/kg	0.100		91.6	70-130			
1,3,5-Trimethylbenzene	0.0939	0.00200	"	0.100		93.9	70-130			
Benzene	0.0917	0.00200	"	0.100		91.7	70-130			
Ethylbenzene	0.0906	0.00200	"	0.100		90.6	70-130			
Naphthalene	0.0967	0.0100	"	0.100		96.7	70-130			
Toluene	0.0888	0.00200	"	0.100		88.8	70-130			
o-Xylene	0.0925	0.00200	"	0.100		92.5	70-130			
m,p-Xylene	0.182	0.00400	"	0.200		91.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

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Project: Heinze #1

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B2B2510 - EPA 5030 (soil)**

Matrix Spike (B2B2510-MS1)		Source: Y202559-01			Prepared: 02/25/2022 Analyzed: 02/25/2022					
1,2,4-Trimethylbenzene	0.0885	0.00200	mg/kg	0.100	ND	88.5	70-130			
1,3,5-Trimethylbenzene	0.0901	0.00200	"	0.100	ND	90.1	70-130			
Benzene	0.0910	0.00200	"	0.100	ND	91.0	70-130			
Ethylbenzene	0.0875	0.00200	"	0.100	ND	87.5	70-130			
Naphthalene	0.0968	0.0100	"	0.100	0.00116	95.7	70-130			
Toluene	0.0859	0.00200	"	0.100	ND	85.9	70-130			
o-Xylene	0.0896	0.00200	"	0.100	ND	89.6	70-130			
m,p-Xylene	0.176	0.00400	"	0.200	ND	88.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B2B2510 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (B2B2510-MSD1)</b>		<b>Source: Y202559-01</b>			Prepared: 02/25/2022 Analyzed: 02/25/2022					
1,2,4-Trimethylbenzene	0.0890	0.00200	mg/kg	0.100	ND	89.0	70-130	0.564	20	
1,3,5-Trimethylbenzene	0.0894	0.00200	"	0.100	ND	89.4	70-130	0.758	20	
Benzene	0.0875	0.00200	"	0.100	ND	87.5	70-130	3.99	20	
Ethylbenzene	0.0869	0.00200	"	0.100	ND	86.9	70-130	0.688	20	
Naphthalene	0.0997	0.0100	"	0.100	0.00116	98.6	70-130	2.97	20	
Toluene	0.0861	0.00200	"	0.100	ND	86.1	70-130	0.209	20	
o-Xylene	0.0886	0.00200	"	0.100	ND	88.6	70-130	1.10	20	
m,p-Xylene	0.174	0.00400	"	0.200	ND	86.8	70-130	1.57	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: -

Project: Heinze #1

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Classical Chemistry Parameters - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B2B2812 - Default Prep Metals**

**Blank (B2B2812-BLK1)**

Prepared: 02/28/2022 Analyzed: 03/01/2022

Boron	ND	0.100	mg/L							U
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**Duplicate (B2B2812-DUP1)**

**Source: Y202557-02**

Prepared: 02/28/2022 Analyzed: 03/01/2022

Boron	1.70	0.0991	mg/L		1.63			4.76	50	
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Project: Heinze #1

**Saturated Paste - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B2B2818 - NO PREP</b>										
<b>Blank (B2B2818-BLK1)</b>					Prepared: 02/28/2022 Analyzed: 03/01/2022					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
<b>Duplicate (B2B2818-DUP1)</b>					Source: Y202563-01 Prepared: 02/28/2022 Analyzed: 03/01/2022					
Specific Conductance (EC)	0.312	0.00500	mmhos/cm		0.336			7.35	25	
<b>Batch B2B2819 - NO PREP</b>										
<b>Duplicate (B2B2819-DUP1)</b>					Source: Y202563-01 Prepared: 02/28/2022 Analyzed: 03/01/2022					
pH	7.66		pH Units		7.71			0.651	25	

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Project: Heinze #1

**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L602652 - 3550B**

MSD (L 94850-MSD-L602652)		Source: 94850			Prepared: 03/03/2022 Analyzed: 03/03/2022					
Chrysene	0.105	0.000624	mg/Kg	0.166	94850	63.2	30-130	0	30	
1-Methylnaphthalene	0.0896	0.000364	"	0.166	94850	53.9	30-130	3.4	30	
Pyrene	0.107	0.000643	"	0.166	94850	64.4	30-130	0.9	30	
Naphthalene	0.0898	0.000484	"	0.166	94850	54	30-130	7.3	30	
Indeno(1,2,3-cd)pyrene	0.0882	0.000627	"	0.166	94850	53.1	30-130	0.2	30	
Fluorene	0.0872	0.000286	"	0.166	94850	52.5	30-130	2.6	30	
Fluoranthene	0.0817	0.000394	"	0.166	94850	49.2	30-130	10.5	30	
Dibenz(a,h)anthracene	0.124	0.000614	"	0.166	94850	74.6	30-130	5.8	30	
Benzo(k)fluoranthene	0.0914	0.000437	"	0.166	94850	55	30-130	4.2	30	
Benzo(b)fluoranthene	0.0941	0.000585	"	0.166	94850	56.6	30-130	1.6	30	
Benzo(a)pyrene	0.131	0.000468	"	0.166	94850	78.9	30-130	10.4	30	
Benzo(a)anthracene	0.102	0.000493	"	0.166	94850	61.4	30-130	4.5	30	
Anthracene	0.0936	0.000334	"	0.166	94850	56.3	30-130	1.8	30	
Acenaphthene	0.0789	0.000304	"	0.166	94850	47.5	30-130	0.6	30	
2-Methylnaphthalene	0.0831	0.000645	"	0.166	94850	50	30-130	2.9	30	
Surrogate: Nitrobenzene-d5	53		"	0.332	165	53	29-110			
Surrogate: 4-Terphenyl-d14	75.9		"	0.332	216	75.9	33-122			
Surrogate: 2-Fluorobiphenyl	58.4		"	0.332	187	58.4	33-115			

MS (L 94850-MS-L602652)		Source: 94850			Prepared: 03/03/2022 Analyzed: 03/03/2022					
Anthracene	0.0919	0.000334	mg/Kg	0.167	0.00686	55	30-130			
1-Methylnaphthalene	0.0866	0.000364	"	0.167	3.1	51.8	30-130			
2-Methylnaphthalene	0.0807	0.000645	"	0.167	4.04	48.3	30-130			
Benzo(a)anthracene	0.0975	0.000493	"	0.167	0.00881	58.3	30-130			
Naphthalene	0.0834	0.000484	"	0.167	1.24	49.9	30-130			
Acenaphthene	0.0784	0.000304	"	0.167	0.103	46.9	30-130			
Indeno(1,2,3-cd)pyrene	0.0884	0.000627	"	0.167	94850	52.9	30-130			

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Project: Heinze #1

**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L602652 - 3550B**

MS (L 94850-MS-L602652)		Source: 94850			Prepared: 03/03/2022 Analyzed: 03/03/2022					
Fluorene	0.0849	0.000286	mg/Kg	0.167	0.363	50.8	30-130			
Fluoranthene	0.0735	0.000394	"	0.167	0.0061	44	30-130			
Dibenz(a,h)anthracene	0.117	0.000614	"	0.167	94850	70	30-130			
Chrysene	0.105	0.000624	"	0.167	0.103	62.8	30-130			
Benzo(k)fluoranthene	0.0954	0.000437	"	0.167	94850	57.1	30-130			
Benzo(b)fluoranthene	0.0957	0.000585	"	0.167	94850	57.3	30-130			
Benzo(a)pyrene	0.118	0.000468	"	0.167	0.00533	70.6	30-130			
Pyrene	0.108	0.000643	"	0.167	0.0357	64.6	30-130			
Surrogate: 2-Fluorobiphenyl	56.1		"	0.333	187	56.1	33-115			
Surrogate: 4-Terphenyl-d14	76.2		"	0.333	216	76.2	33-122			
Surrogate: Nitrobenzene-d5	46.8		"	0.333	165	46.8	29-110			

**LCS (LCS-L602652)**

Prepared: 03/03/2022 Analyzed: 03/03/2022

Benzo(k)fluoranthene	0.107	0.000437	mg/Kg	0.167		64	30-130
Anthracene	0.0933	0.000334	"	0.167		55.8	30-130
Benzo(a)anthracene	0.0941	0.000493	"	0.167		56.3	30-130
Benzo(a)pyrene	0.105	0.000468	"	0.167		62.8	30-130
Benzo(b)fluoranthene	0.0918	0.000585	"	0.167		54.9	30-130
Chrysene	0.103	0.000624	"	0.167		61.6	30-130
Dibenz(a,h)anthracene	0.109	0.000614	"	0.167		65.2	30-130
Fluoranthene	0.101	0.000394	"	0.167		60.4	30-130
Fluorene	0.0866	0.000286	"	0.167		51.8	30-130
1-Methylnaphthalene	0.0905	0.000364	"	0.167		54.1	30-130
Naphthalene	0.0882	0.000484	"	0.167		52.8	30-130
2-Methylnaphthalene	0.0829	0.000645	"	0.167		49.6	30-130
Pyrene	0.102	0.000643	"	0.167		61	30-130
Indeno(1,2,3-cd)pyrene	0.0839	0.000627	"	0.167		50.2	30-130

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**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L602652 - 3550B**

**LCS (LCS-L602652)**

Prepared: 03/03/2022 Analyzed: 03/03/2022

Acenaphthene	0.0772	0.000304	mg/Kg	0.167		46.2	30-130			
Surrogate: Nitrobenzene-d5	57.6		"	0.333		57.6	29-110			
Surrogate: 2-Fluorobiphenyl	65.4		"	0.333		65.4	33-115			
Surrogate: 4-Terphenyl-d14	81.3		"	0.333		81.3	33-122			

**LRB (LRB-L602652)**

Prepared: 03/03/2022 Analyzed: 03/03/2022

Benzo(a)anthracene	ND	0.00067	mg/Kg				-			
1-Methylnaphthalene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Surrogate: 2-Fluorobiphenyl	64.5		"	0.333		64.5	33-115			
Surrogate: 4-Terphenyl-d14	64.2		"	0.333		64.2	33-122			
Surrogate: Nitrobenzene-d5	54		"	0.333		54	29-110			

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**Total Metals by 6020B - Quality Control**  
**Waypoint Analytical, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch L602310 - 3050B</b>										
<b>MSD (L 99395-MSD-L602310)</b>			<b>Source: 99395</b>		Prepared: 03/01/2022 Analyzed: 03/08/2022					
Barium	102	0.042	mg/Kg	4.89	110	NR	75-125	22.6	80	*
Lead	11.2	0.031	"	2.45	10	49	75-125	8.5	80	*
Arsenic	3.18	0.0855	"	2.45	2.86	13	75-125	6.3	80	*
Cadmium	0.594	0.0259	"	0.489	0.183	121	75-125	2.2	80	
Copper	12.5	0.0806	"	2.45	12.9	NR	75-125	7.6	80	*
Selenium	3.8	0.103	"	4.89	0.409	69	75-125	3.7	80	*
Silver	0.548	0.0067	"	0.489	0.0515	112	75-125	3.9	80	
Zinc	62.3	0.534	"	24.5	42.9	79	75-125	2.2	80	
Nickel	15.8	0.0633	"	2.45	14	74	75-125	8.5	80	*
<b>MS (L 99395-MS-L602310)</b>			<b>Source: 99395</b>		Prepared: 03/01/2022 Analyzed: 03/05/2022					
Cadmium	0.581	0.0259	mg/Kg	0.483	0.183	120	75-125			
Zinc	63.7	0.534	"	24.2	42.9	86	75-125			
Selenium	3.66	0.103	"	4.83	0.409	67	75-125			*
Nickel	14.5	0.0633	"	2.42	14	21	75-125			*
Lead	12.2	0.031	"	2.42	10	91	75-125			
Copper	13.5	0.0806	"	2.42	12.9	25	75-125			*
Arsenic	3.39	0.0855	"	2.42	2.86	22	75-125			*
Silver	0.527	0.0067	"	0.483	0.0515	109	75-125			
Barium	128	0.042	"	4.83	110	373	75-125			*
<b>LCS (LCS-L602310)</b>			Prepared: 03/01/2022 Analyzed: 03/08/2022							
Arsenic	2.4	0.0855	mg/Kg	2.5		96	80-120			
Barium	5.24	0.042	"	5		105	80-120			
Cadmium	0.52	0.0259	"	0.5		104	80-120			
Copper	2.52	0.0806	"	2.5		101	80-120			
Lead	2.59	0.031	"	2.5		104	80-120			

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Ben Baugh  
Project Number: -  
Project: Heinze #1

**Total Metals by 6020B - Quality Control**  
**Waypoint Analytical, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L602310 - 3050B**

**LCS (LCS-L602310)**

Prepared: 03/01/2022 Analyzed: 03/08/2022

Nickel	2.78	0.0633	mg/Kg	2.5		111	80-120			
Selenium	5.02	0.103	"	5		100	80-120			
Zinc	27	0.534	"	25		108	80-120			
Silver	0.542	0.0067	"	0.5		108	80-120			

**LRB (LRB-L602310)**

Prepared: 03/01/2022 Analyzed: 03/05/2022

Copper	ND	0.25	mg/Kg				-			
Arsenic	ND	0.25	"				-			
Barium	0.0494	0.25	"				-			J
Cadmium	ND	0.25	"				-			
Zinc	ND	2.5	"				-			
Silver	ND	0.25	"				-			
Selenium	ND	0.25	"				-			
Nickel	ND	0.25	"				-			
Lead	ND	0.25	"				-			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Entrada Consulting Group  
330 Grand Ave. Unit C  
Grand Junction CO 81501

Ben Baugh  
Project Number: -  
Project: Heinze #1

**Total Metals by 7196A - Quality Control**  
**Waypoint Analytical, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch L603224 -</b>										
<b>DUP (L 94848-DUP)</b>		<b>Source: 94848</b>			Prepared: Analyzed: 03/07/2022					
Chromium, Hexavalent	ND	0.244	mg/Kg		94848	-		0	20	
<b>MS (L 94848-MS)</b>		<b>Source: 94848</b>			Prepared: Analyzed: 03/07/2022					
Chromium, Hexavalent	4.01	0.251	mg/Kg	8.27	94848	48	75-125			*
<b>LCS (LCS)</b>					Prepared: Analyzed: 03/07/2022					
Chromium, Hexavalent	6.68	0.244	mg/Kg	8		84	75-125			
<b>LRB (LRB)</b>					Prepared: Analyzed: 03/07/2022					
Chromium, Hexavalent	ND	0.5	mg/Kg							

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: -

Project: Heinze #1

## Notes and Definitions

U Sample is Non-Detect.

J Estimated Value. Analyte below reported quantitation limit.

\* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



March 09, 2022

Entrada Consulting Group

Ben Baugh

330 Grand Ave. Unit C

Grand Junction CO 81501

**Project Name - Heinze #1 + #2**

**Project Number - -**

Attached are your analytical results for Heinze #1 + #2 received by Origins Laboratory, Inc. February 25, 2022. This project is associated with Origins project number Y202564-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.  
303.433.1322  
o-squad@oelabinc.com



Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: -

Project: Heinze #1 + #2

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BG01-1	Y202564-01	Soil	February 25, 2022 14:35	02/25/2022 16:28
BG01-3	Y202564-02	Soil	February 25, 2022 14:40	02/25/2022 16:28
BG02-1	Y202564-03	Soil	February 25, 2022 14:45	02/25/2022 16:28
BG02-3	Y202564-04	Soil	February 25, 2022 14:50	02/25/2022 16:28

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: -

Project: Heinze #1 + #2

# ORIGINS

LABORATORY, INC

Bill To Jason Phipps

www.originslaboratory.com

435-630-4748

page 1 of 1

Client: Entrada Consulting Group  
 Address: Ben Baugh  
 Project Manager: Heinze #1 + #2  
 Project Name: JEREMY PHE, NICH YOUNG  
 Project Number: 435-630-4748  
 Telephone Number: JIMIE@ENTRADA-INC.COM, BENBAUGH@ENTRADA-INC.COM  
 Email Address: JIMIE@ENTRADA-INC.COM, BENBAUGH@ENTRADA-INC.COM

Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix				Analysis	Sample Instructions	
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa #	Other			
B601-1	2/25/22	1435	1	X					X			X	1	EC, PH, SAR, ROZON, ARSENIC, BARIUM, SELENIUM
B601-3		1440	1	X					X			X	2	
B602-1		1445	1	X					X			X	3	
B602-3		1450	1	X					X			X	4	
													5	
													6	
													7	
													8	
													9	
													10	
Relinquished By: <i>[Signature]</i>	Date: 2/25/22	Time: 1425		Received By: <i>[Signature]</i>				Date: 2/25/22				Time: 10:25	Turnaround Time: Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>	
Relinquished By:	Date:	Time:		Received By:				Date:				Time:		

Date Results Needed: 2/25/22

\$1

Origins Laboratory, Inc.

Jefe Pellegrini

Jen Pellegrini, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Entrada Consulting Group  
330 Grand Ave. Unit C  
Grand Junction CO 81501

Ben Baugh  
Project Number: -  
Project: Heinze #1 + #2

Origins Laboratory

Origins Work Order: Y202564

Checklist Completed by: AKH

Date/time completed: 2/25/22

Matrix(s) Received: (Check all that apply): / Soil/Solid / Water / Other: /

Cooler Number/Temperature: 1 5.1 °C / °C / °C (Describe)

Thermometer ID: 87005

Sample Receipt Checklist

Client: Entrada

Client Project ID: Heinze #1 + #2

Shipped Via: 21D  
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Airbill #: 217

F-012207-01-R1  
Effective Date: 01/09/12

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?				Same day
Is there ice present (document if blue ice is used)				
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)				
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)				
Were all samples received intact <sup>(1)</sup> ?				
Was adequate sample volume provided <sup>(1)</sup> ?				
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?				
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?				
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?				
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?				
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?				
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.				
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)				
Additional Comments (if any):				

<sup>(1)</sup>if NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the base narrative.

Reviewed by (Project Manager): Kelly H

Date/Time Reviewed: 2/25/22

Origins Laboratory, Inc.

*Jen Pellegrini*

Jen Pellegrini, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Entrada Consulting Group  
330 Grand Ave. Unit C  
Grand Junction CO 81501

Ben Baugh  
Project Number: -  
Project: Heinze #1 + #2

BG01-1

2/25/2022 2:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y202564-01 (Soil)

## Boron (DTPA Sorbitol)

Boron	0.694	0.0992	mg/L	1	B2B2812	02/28/2022	03/01/2022
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## Metals by Saturated Paste by EPA 6010

Calcium	1.03	0.499	meq/L	10	[CALC]	02/28/2022	03/01/2022
Magnesium	2.07	0.823	"	"	"	"	"
Sodium	12.0	0.435	"	"	"	"	"

## pH in Soil by 9045D

pH	8.71		pH Units	1	B2B2813	02/28/2022	03/01/2022
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## SAR by 20B Saturated Paste

SAR	9.60		SAR	1	B2B2810	02/28/2022	03/01/2022
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.44	0.00500	mmhos/cm	1	B2B2815	02/28/2022	03/01/2022
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## Total Metals by 6020B

Arsenic	1.69	0.0855	0.25	mg/Kg	5	L602390	03/02/2022	03/05/2022
Barium	23.1	0.042	0.25	"	"	"	"	"
Selenium	0.267	0.103	0.25	"	"	"	"	"

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Entrada Consulting Group  
330 Grand Ave. Unit C  
Grand Junction CO 81501

Ben Baugh  
Project Number: -  
Project: Heinze #1 + #2

BG01-3

2/25/2022 2:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y202564-02 (Soil)

## Boron (DTPA Sorbitol)

Boron	0.178	0.0988	mg/L	1	B2B2812	02/28/2022	03/01/2022
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## Metals by Saturated Paste by EPA 6010

Calcium	11.6	0.499	meq/L	10	[CALC]	02/28/2022	03/01/2022
Magnesium	6.50	0.823	"	"	"	"	"
Sodium	13.3	0.435	"	"	"	"	"

## pH in Soil by 9045D

pH	7.92		pH Units	1	B2B2813	02/28/2022	03/01/2022
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## SAR by 20B Saturated Paste

SAR	4.44		SAR	1	B2B2810	02/28/2022	03/01/2022
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.79	0.00500	mmhos/cm	1	B2B2815	02/28/2022	03/01/2022
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## Total Metals by 6020B

Arsenic	1.54	0.0855	0.25	mg/Kg	5	L602390	03/02/2022	03/05/2022
Barium	42.1	0.042	0.25	"	"	"	"	"
Selenium	0.323	0.103	0.25	"	"	"	"	"

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager



Entrada Consulting Group  
330 Grand Ave. Unit C  
Grand Junction CO 81501

Ben Baugh  
Project Number: -  
Project: Heinze #1 + #2

BG02-1

2/25/2022 2:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y202564-03 (Soil)

## Boron (DTPA Sorbitol)

Boron	0.406	0.102	mg/L	1	B2B2812	02/28/2022	03/01/2022
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## Metals by Saturated Paste by EPA 6010

Calcium	0.719	0.499	meq/L	10	[CALC]	02/28/2022	03/01/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	3.28	0.435	"	"	"	"	"

## pH in Soil by 9045D

pH	8.51	pH Units	1	B2B2813	02/28/2022	03/01/2022
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## SAR by 20B Saturated Paste

SAR	3.75	SAR	1	B2B2810	02/28/2022	03/01/2022
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.721	0.00500	mmhos/cm	1	B2B2815	02/28/2022	03/01/2022
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## Total Metals by 6020B

Arsenic	1.44	0.0855	0.25	mg/Kg	5	L602390	03/02/2022	03/05/2022
Barium	26	0.042	0.25	"	"	"	"	"
Selenium	0.286	0.103	0.25	"	"	"	"	"

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Entrada Consulting Group  
330 Grand Ave. Unit C  
Grand Junction CO 81501

Ben Baugh  
Project Number: -  
Project: Heinze #1 + #2

**BG02-3****2/25/2022 2:50:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y202564-04 (Soil)****Boron (DTPA Sorbitol)**

Boron	0.0987	0.0987	mg/L	1	B2B2812	02/28/2022	03/01/2022	U
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**Metals by Saturated Paste by EPA 6010**

Calcium	2.07	0.499	meq/L	10	[CALC]	02/28/2022	03/01/2022
Magnesium	1.14	0.823	"	"	"	"	"
Sodium	5.97	0.435	"	"	"	"	"

**pH in Soil by 9045D**

pH	8.31	pH Units	1	B2B2813	02/28/2022	03/01/2022
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**SAR by 20B Saturated Paste**

SAR	4.71	SAR	1	B2B2810	02/28/2022	03/01/2022
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	1.22	0.00500	mmhos/cm	1	B2B2815	02/28/2022	03/01/2022
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**Total Metals by 6020B**

Arsenic	3.08	0.0855	0.25	mg/Kg	5	L602390	03/02/2022	03/05/2022
Barium	39.7	0.042	0.25	"	"	"	"	"
Selenium	0.208	0.103	0.25	"	"	"	"	J

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Entrada Consulting Group  
330 Grand Ave. Unit C  
Grand Junction CO 81501

Ben Baugh  
Project Number: -  
Project: Heinze #1 + #2

**Classical Chemistry Parameters - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B2B2812 - Default Prep Metals</b>										
<b>Blank (B2B2812-BLK1)</b>					Prepared: 02/28/2022 Analyzed: 03/01/2022					
Boron	ND	0.100	mg/L							U
<b>Duplicate (B2B2812-DUP1)</b>					Source: Y202557-02 Prepared: 02/28/2022 Analyzed: 03/01/2022					
Boron	1.70	0.0991	mg/L		1.63			4.76	50	

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Entrada Consulting Group  
330 Grand Ave. Unit C  
Grand Junction CO 81501

Ben Baugh  
Project Number: -  
Project: Heinze #1 + #2

## Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B2B2813 - NO PREP</b>										
<b>Duplicate (B2B2813-DUP1)</b>		<b>Source: Y202557-01</b>			Prepared: 02/28/2022 Analyzed: 03/01/2022					
pH	7.50		pH Units		7.51			0.133	25	
<b>Batch B2B2815 - NO PREP</b>										
<b>Blank (B2B2815-BLK1)</b>		Prepared: 02/28/2022 Analyzed: 03/01/2022								
Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
<b>Duplicate (B2B2815-DUP1)</b>		<b>Source: Y202557-01</b>			Prepared: 02/28/2022 Analyzed: 03/01/2022					
Specific Conductance (EC)	3.43	0.00500	mmhos/cm		4.64			30.0	25	QR-DUP

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Entrada Consulting Group  
330 Grand Ave. Unit C  
Grand Junction CO 81501

Ben Baugh  
Project Number: -  
Project: Heinze #1 + #2

## Total Metals by 6020B - Quality Control Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch L602390 - 3050B</b>										
<b>MSD (L 99398-MSD-L602390)</b>			<b>Source: 99398</b>		Prepared: 03/02/2022 Analyzed: 03/05/2022					
Barium	102	0.042	mg/Kg	4.76	61.1	859	75-125	11.5	80	*
Selenium	3.75	0.103	"	4.76	0.379	71	75-125	1.8	80	*
Arsenic	4.2	0.0855	"	2.38	1.67	106	75-125	11	80	
<b>MS (L 99398-MS-L602390)</b>			<b>Source: 99398</b>		Prepared: 03/02/2022 Analyzed: 03/05/2022					
Barium	90.9	0.042	mg/Kg	4.64	61.1	642	75-125			*
Selenium	3.68	0.103	"	4.64	0.379	71	75-125			*
Arsenic	3.76	0.0855	"	2.32	1.67	90	75-125			
<b>LCS (LCS-L602390)</b>			Prepared: 03/02/2022 Analyzed: 03/05/2022							
Arsenic	2.7	0.0855	mg/Kg	2.5		108	80-120			
Barium	4.55	0.042	"	5		91	80-120			
Selenium	5.16	0.103	"	5		103	80-120			
<b>LRB (LRB-L602390)</b>			Prepared: 03/02/2022 Analyzed: 03/05/2022							
Selenium	ND	0.25	mg/Kg				-			
Arsenic	ND	0.25	"				-			
Barium	0.16	0.25	"				-			J

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Entrada Consulting Group  
330 Grand Ave. Unit C  
Grand Junction CO 81501

Ben Baugh  
Project Number: -  
Project: Heinze #1 + #2

### Notes and Definitions

U Sample is Non-Detect.

QR-DUP RPD exceeds QC acceptance criteria, this indicates source sample is not homogenous.

J Estimated Value. Analyte below reported quantitation limit.

\* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



March 01, 2022

Entrada Consulting Group

Jeremy Pike

330 Grand Ave. Unit C

Grand Junction CO 81501

**Project Name - Heinze #1****Project Number - [none]**

Attached are your analytical results for Heinze #1 received by Origins Laboratory, Inc. February 28, 2022. This project is associated with Origins project number Y202601-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.  
303.433.1322  
o-squad@oelabinc.com



Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Jeremy Pike

Project Number: [none]

Project: Heinze #1

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GW01	Y202601-01	Water	February 28, 2022 13:40	02/28/2022 15:55

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*





Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Jeremy Pike

Project Number: [none]

Project: Heinze #1

Origins Laboratory

F-012207-01-R1  
Effective Date: 01/09/12

## Sample Receipt Checklist

Origins Work Order: Y202601

Client: Entrada

Client Project ID: Heinze #1

Checklist Completed by: JB

Shipped Via: HO  
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 2/28/22

Airbill #: N/A

Matrix(s) Received: (Check all that apply): ☐ Soil/Solid ☒ Water ☐ Other: \_\_\_\_\_

Cooler Number/Temperature: 1, 7.1 °C \_\_\_\_\_ °C \_\_\_\_\_ °C (Describe) \_\_\_\_\_ °C

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		<u>Same Day</u>
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
For volatiles in water — is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		<input checked="" type="checkbox"/>		
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / ( pH > 10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) JB

3-1-22  
Date/Time Reviewed

Origins Laboratory, Inc.

*Jordan A. Merrill*

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Entrada Consulting Group  
330 Grand Ave. Unit C  
Grand Junction CO 81501

Jeremy Pike  
Project Number: [none]  
Project: Heinze #1

## GW01

2/28/2022 1:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y202601-01 (Water)

### BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	253	200	ug/L	100	B2B2808	ZZZ	02/28/2022	03/01/2022	
1,3,5-Trimethylbenzene	56.7	20.0	"	10	"	ZZZ	"	03/01/2022	
Benzene	40.7	10.0	"	"	"	ZZZ	"	"	
Ethylbenzene	181	100	"	100	"	ZZZ	"	03/01/2022	
Naphthalene	49.7	2.00	"	1	"	ZZZ	"	02/28/2022	
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	315	10.0	"	10	"	ZZZ	"	03/01/2022	

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130			"	"	02/28/2022	
Surrogate: Toluene-d8	103 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %	70-130			"	"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Jeremy Pike

Project Number: [none]

Project: Heinze #1

## Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch B2B2808 - EPA 5030B (Water)

#### Blank (B2B2808-BLK1)

Prepared: 02/28/2022 Analyzed: 02/28/2022

1,2,4-Trimethylbenzene	ND	2.00	ug/L							U
1,3,5-Trimethylbenzene	ND	2.00	"							U
Benzene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Naphthalene	ND	2.00	"							U
Toluene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	67		"	62.5		108	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.9	70-130			
Surrogate: 4-Bromofluorobenzene	69		"	62.5		110	70-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Jeremy Pike

Project Number: [none]

Project: Heinze #1

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B2B2808 - EPA 5030B (Water)</b>										
<b>LCS (B2B2808-BS1)</b>					Prepared: 02/28/2022 Analyzed: 02/28/2022					
1,2,4-Trimethylbenzene	54.1	2.00	ug/L	50.0		108	70-130			
1,3,5-Trimethylbenzene	55.2	2.00	"	50.0		110	70-130			
Benzene	50.4	1.00	"	50.0		101	70-130			
Ethylbenzene	53.4	1.00	"	50.0		107	70-130			
m,p-Xylene	109	2.00	"	100		109	70-130			
Naphthalene	49.5	2.00	"	50.0		99.0	70-130			
o-Xylene	51.7	1.00	"	50.0		103	70-130			
Toluene	54.0	1.00	"	50.0		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		101	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Jeremy Pike

Project Number: [none]

Project: Heinze #1

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B2B2808 - EPA 5030B (Water)**

Matrix Spike (B2B2808-MS1)		Source: Y202569-02			Prepared: 02/28/2022 Analyzed: 02/28/2022					
1,2,4-Trimethylbenzene	59.3	2.00	ug/L	50.0	0.310	118	70-130			
1,3,5-Trimethylbenzene	60.0	2.00	"	50.0	ND	120	70-130			
Benzene	54.2	1.00	"	50.0	ND	108	70-130			
Ethylbenzene	59.6	1.00	"	50.0	ND	119	70-130			
m,p-Xylene	122	2.00	"	100	ND	122	70-130			
Naphthalene	58.0	2.00	"	50.0	0.330	115	70-130			
o-Xylene	58.7	1.00	"	50.0	ND	117	70-130			
Toluene	57.6	1.00	"	50.0	ND	115	70-130			
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		102	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		106	70-130			

Origins Laboratory, Inc.



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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Jeremy Pike

Project Number: [none]

Project: Heinze #1

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B2B2808 - EPA 5030B (Water)</b>										
<b>Matrix Spike Dup (B2B2808-MSD1)</b>	<b>Source: Y202569-02</b>				Prepared: 02/28/2022 Analyzed: 02/28/2022					
1,2,4-Trimethylbenzene	60.7	2.00	ug/L	50.0	0.310	121	70-130	2.47	20	
1,3,5-Trimethylbenzene	61.6	2.00	"	50.0	ND	123	70-130	2.71	20	
Benzene	56.7	1.00	"	50.0	ND	113	70-130	4.42	20	
Ethylbenzene	62.7	1.00	"	50.0	ND	125	70-130	5.05	20	
m,p-Xylene	127	2.00	"	100	ND	127	70-130	3.68	20	
Naphthalene	59.1	2.00	"	50.0	0.330	117	70-130	1.74	20	
o-Xylene	60.4	1.00	"	50.0	ND	121	70-130	2.89	20	
Toluene	61.1	1.00	"	50.0	ND	122	70-130	6.01	20	
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		104	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

Origins Laboratory, Inc.



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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Jeremy Pike

Project Number: [none]

Project: Heinze #1

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### Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*





March 21, 2022

Entrada Consulting Group

Jeremy Pike

330 Grand Ave. Unit C

Grand Junction CO 81501

Project Name - Heinze #1

Project Number - [none]

Attached are your analytical results for Heinze #1 received by Origins Laboratory, Inc. February 28, 2022. This project is associated with Origins project number Y202603-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.  
303.433.1322  
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Jeremy Pike

Project Number: [none]

Project: Heinze #1

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS1-1	Y202603-01	Soil	February 24, 2022 10:50	02/28/2022 15:55
SS3-1	Y202603-03	Soil	February 25, 2022 10:30	02/28/2022 15:55
SS4-2	Y202603-04	Soil	February 28, 2022 9:50	02/28/2022 15:55
SS5-2	Y202603-05	Soil	February 28, 2022 9:55	02/28/2022 15:55

## Chain of Custody Modification Request

On 3/14/2022, Jeremy Pike from Entrada contacted Jennifer Pellegrini via email regarding Y202603 requesting that PAHs, Ba and Se be added to sample SS4-2.

Requested modifications to the chain of custody were made by Jennifer Pellegrini on 3/14/2022.

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Entrada Consulting Group  
330 Grand Ave. Unit C  
Grand Junction CO 81501

Jeremy Pike  
Project Number: [none]  
Project: Heinze #1

www.originslaboratory.com

Bill to J. Davidson  
Great Western Operating Company

1725 Elk Place | Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Client: Entrada Consulting Group

Project Manager: Jeremy Pike

Project Number: HEINZE #1

Telephone Number: 435-630-4748

Email Address: jpike@entradainc.com, jdavison@gwp.com

Samples Collected By: Jeremy Pike

Refiniquished By: [Signature]

Sample ID Description	Date Sampled	Time Sampled	Preservative				Matrix			Sample Instruction
			Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Other	
531-1	2/24/22	10:50								
532-2	2/24/22	11:10								Hold
533-1	2/25/22	10:30								
534-2	2/28/22	09:50								
535-2	2/28/22	09:55								

Refiniquished By: [Signature]

Date: 2/28/22

Time: 15:55

Received By: [Signature]

Date: 2/28/22

Time: 15:55

Turnaround Time: Same Day ☐ 24 ☒ 48 hr ☐ Standard ☐

Date Results Needed: 7/1

Origins Laboratory, Inc.

*Bynon*

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Entrada Consulting Group  
330 Grand Ave. Unit C  
Grand Junction CO 81501

Jeremy Pike  
Project Number: [none]  
Project: Heinze #1

Origins Laboratory

F-012207-01-R1  
Effective Date: 01/09/12

## Sample Receipt Checklist

Origins Work Order: 1202003

Client: Entrada

Client Project ID: Heinze #1

Checklist Completed by: JG

Shipped Via: 240

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 2/28/22

Airbill #: N/A

Matrix(s) Received: (Check all that apply): ☒ Soil/Solid

☐ Water

☐ Other:

Cooler Number/Temperature: 1, 17.1 °C

1 °C 1 °C (Describe) °C

Thermometer ID: 1003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		<u>Some Dg</u>
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

<sup>(1)</sup>If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by JM (Project Manager)

3-1-22  
Date/Time Reviewed

Origins Laboratory, Inc.

*J. Bynon*

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Entrada Consulting Group  
330 Grand Ave. Unit C  
Grand Junction CO 81501

Jeremy Pike  
Project Number: [none]  
Project: Heinze #1

## SS1-1

2/24/2022 10:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y202603-01 (Soil)

### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2C0101	03/01/2022	03/02/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl 81.5 % 50-150 " " "

### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2C0112	03/01/2022	03/02/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	ND		0.00380	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 122 % 70-130 " " "  
Surrogate: Toluene-d8 93.7 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 97.2 % 70-130 " " "

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Entrada Consulting Group  
330 Grand Ave. Unit C  
Grand Junction CO 81501

Jeremy Pike  
Project Number: [none]  
Project: Heinze #1

## SS3-1

2/25/2022 10:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y202603-03 (Soil)

### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2C0101	03/01/2022	03/02/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 99.7 % 50-150 " " "

### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2C0112	03/01/2022	03/02/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Naphthalene	ND	0.00380	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 123 % 70-130 " " "  
Surrogate: Toluene-d8 93.9 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 97.5 % 70-130 " " "

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Jeremy Pike

Project Number: [none]

Project: Heinze #1

## SS4-2

2/28/2022 9:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc.

Y202603-04 (Soil)

### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2C0101	03/01/2022	03/02/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 93.9 % 50-150 " " "

### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2C0112	03/01/2022	03/02/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Naphthalene	ND	0.00380	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 126 % 70-130 " " "  
 Surrogate: Toluene-d8 92.8 % 70-130 " " "  
 Surrogate: 4-Bromofluorobenzene 97.5 % 70-130 " " "

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Entrada Consulting Group  
330 Grand Ave. Unit C  
Grand Junction CO 81501

Jeremy Pike  
Project Number: [none]  
Project: Heinze #1

## SS4-2

2/28/2022 9:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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### Waypoint Analytical, Inc. Y202603-04 (Soil)

#### PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L604990	03/15/2022	03/15/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	53.8 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	64.9 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	48 %	29-110	"	"	"

Origins Laboratory, Inc.



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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Jeremy Pike

Project Number: [none]

Project: Heinze #1

**SS4-2****2/28/2022 9:50:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.****Y202603-04 (Soil)****Total Metals by 6020B**

Barium	51.7	0.042	0.25	mg/Kg	5	L605626	03/18/2022	03/20/2022	
Selenium	ND	0.103	0.25	"	"	"	"	"	

Origins Laboratory, Inc.



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Entrada Consulting Group  
330 Grand Ave. Unit C  
Grand Junction CO 81501

Jeremy Pike  
Project Number: [none]  
Project: Heinze #1

## SS5-2

2/28/2022 9:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y202603-05 (Soil)

### DRO/ORO by EPA 8015D

Diesel (C10-C28)	2140	25.0	mg/kg	1	B2C0101	03/01/2022	03/02/2022
Residual Range Organics (C28-C40)	1070	100	"	"	"	"	"

Surrogate: o-Terphenyl	94.9 %	50-150	"	"	"
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### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.00296	0.00200	mg/kg	1	B2C0112	03/01/2022	03/02/2022
1,3,5-Trimethylbenzene	0.0296	0.00200	"	"	"	"	"
Benzene	ND	0.00200	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	U
Naphthalene	ND	0.00380	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	U
Xylenes, total	0.0714	0.00200	"	"	"	"	"
Gasoline Range Hydrocarbons	3.20	0.200	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	126 %	70-130	"	"	"
Surrogate: Toluene-d8	92.8 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	103 %	70-130	"	"	"

Origins Laboratory, Inc.



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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Jeremy Pike

Project Number: [none]

Project: Heinze #1

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B2C0101 - EPA 3550B</b>										
<b>Blank (B2C0101-BLK1)</b>					Prepared: 03/01/2022 Analyzed: 03/02/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	21		"	24.9		84.8	50-150			

Origins Laboratory, Inc.



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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Jeremy Pike

Project Number: [none]

Project: Heinze #1

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B2C0101 - EPA 3550B****LCS (B2C0101-BS1)**

Prepared: 03/01/2022 Analyzed: 03/02/2022

Diesel (C10-C28)	838	50.0	mg/kg	1000		83.8	70-130			
Residual Range Organics (C28-C40)	733	200	"	1000		73.3	70-130			
Surrogate: o-Terphenyl	44		"	49.8		88.2	50-150			

Origins Laboratory, Inc.



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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Jeremy Pike

Project Number: [none]

Project: Heinze #1

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B2C0101 - EPA 3550B**

Matrix Spike (B2C0101-MS1)		Source: Y202593-01			Prepared: 03/01/2022 Analyzed: 03/03/2022					
Diesel (C10-C28)	898	50.0	mg/kg	1000	ND	89.8	70-130			
Residual Range Organics (C28-C40)	865	200	"	1000	ND	86.5	70-130			
Surrogate: o-Terphenyl	48		"	49.8		96.5	50-150			

Origins Laboratory, Inc.



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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Jeremy Pike

Project Number: [none]

Project: Heinze #1

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B2C0101 - EPA 3550B**

<b>Matrix Spike Dup (B2C0101-MSD1)</b>		<b>Source: Y202593-01</b>			Prepared: 03/01/2022 Analyzed: 03/02/2022					
Diesel (C10-C28)	848	50.0	mg/kg	1000	ND	84.8	70-130	5.73	35	
Residual Range Organics (C28-C40)	736	200	"	1000	ND	73.6	70-130	16.1	35	
Surrogate: o-Terphenyl	42		"	49.8		84.3	50-150			

Origins Laboratory, Inc.



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Entrada Consulting Group  
330 Grand Ave. Unit C  
Grand Junction CO 81501

Jeremy Pike  
Project Number: [none]  
Project: Heinze #1

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B2C0112 - EPA 5030 (soil)</b>										
<b>Blank (B2C0112-BLK1)</b>					Prepared: 03/01/2022 Analyzed: 03/01/2022					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		84.5	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.5	70-130			

Origins Laboratory, Inc.



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Entrada Consulting Group  
330 Grand Ave. Unit C  
Grand Junction CO 81501

Jeremy Pike  
Project Number: [none]  
Project: Heinze #1

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B2C0112 - EPA 5030 (soil)</b>										
<b>LCS (B2C0112-BS1)</b>					Prepared: 03/01/2022 Analyzed: 03/01/2022					
1,2,4-Trimethylbenzene	0.110	0.00200	mg/kg	0.100		110	70-130			
1,3,5-Trimethylbenzene	0.111	0.00200	"	0.100		111	70-130			
Benzene	0.0935	0.00200	"	0.100		93.5	70-130			
Ethylbenzene	0.110	0.00200	"	0.100		110	70-130			
Naphthalene	0.113	0.0100	"	0.100		113	70-130			
Toluene	0.0987	0.00200	"	0.100		98.7	70-130			
o-Xylene	0.109	0.00200	"	0.100		109	70-130			
m,p-Xylene	0.221	0.00400	"	0.200		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.10		"	0.125		82.2	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

Origins Laboratory, Inc.



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Entrada Consulting Group  
330 Grand Ave. Unit C  
Grand Junction CO 81501

Jeremy Pike  
Project Number: [none]  
Project: Heinze #1

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B2C0112 - EPA 5030 (soil)**

Matrix Spike (B2C0112-MS1)		Source: Y203018-01			Prepared: 03/01/2022 Analyzed: 03/02/2022					
1,2,4-Trimethylbenzene	0.0849	0.00200	mg/kg	0.100	ND	84.9	70-130			
1,3,5-Trimethylbenzene	0.0840	0.00200	"	0.100	ND	84.0	70-130			
Benzene	0.0750	0.00200	"	0.100	ND	75.0	70-130			
Ethylbenzene	0.0817	0.00200	"	0.100	ND	81.7	70-130			
Naphthalene	0.0869	0.0100	"	0.100	0.00108	85.8	70-130			
Toluene	0.0729	0.00200	"	0.100	ND	72.9	70-130			
o-Xylene	0.0828	0.00200	"	0.100	ND	82.8	70-130			
m,p-Xylene	0.168	0.00400	"	0.200	ND	84.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		88.9	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.1	70-130			

Origins Laboratory, Inc.



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Entrada Consulting Group  
330 Grand Ave. Unit C  
Grand Junction CO 81501

Jeremy Pike  
Project Number: [none]  
Project: Heinze #1

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B2C0112 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (B2C0112-MSD1)</b>		<b>Source: Y203018-01</b>			Prepared: 03/01/2022 Analyzed: 03/01/2022					
1,2,4-Trimethylbenzene	0.0870	0.00200	mg/kg	0.100	ND	87.0	70-130	2.49	20	
1,3,5-Trimethylbenzene	0.0869	0.00200	"	0.100	ND	86.9	70-130	3.40	20	
Benzene	0.0799	0.00200	"	0.100	ND	79.9	70-130	6.38	20	
Ethylbenzene	0.0883	0.00200	"	0.100	ND	88.3	70-130	7.74	20	
Naphthalene	0.0935	0.0100	"	0.100	0.00108	92.4	70-130	7.32	20	
Toluene	0.0811	0.00200	"	0.100	ND	81.1	70-130	10.7	20	
o-Xylene	0.0884	0.00200	"	0.100	ND	88.4	70-130	6.50	20	
m,p-Xylene	0.178	0.00400	"	0.200	ND	89.2	70-130	5.86	20	
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		87.7	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

Origins Laboratory, Inc.



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Entrada Consulting Group  
330 Grand Ave. Unit C  
Grand Junction CO 81501

Jeremy Pike  
Project Number: [none]  
Project: Heinze #1

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L604990 - 3550B**

MSD (G 74929-MSD-L604990)		Source: 74929			Prepared: 03/15/2022 Analyzed: 03/15/2022					
Benzo(k)fluoranthene	0.112	0.000437	mg/Kg	0.167	<0.000437	67	30-130	3.6	30	
1-Methylnaphthalene	0.0859	0.000364	"	0.167	<0.000364	51.4	30-130	4.4	30	
2-Methylnaphthalene	0.0741	0.000645	"	0.167	<0.000645	44.3	30-130	3.4	30	
Acenaphthene	0.0757	0.000304	"	0.167	<0.000304	45.3	30-130	1.5	30	
Anthracene	0.0893	0.000334	"	0.167	<0.000334	53.4	30-130	1.4	30	
Benzo(a)anthracene	0.0955	0.000493	"	0.167	<0.000493	57.1	30-130	1.3	30	
Benzo(a)pyrene	0.108	0.000468	"	0.167	<0.000468	64.6	30-130	1.8	30	
Chrysene	0.101	0.000624	"	0.167	<0.000624	60.4	30-130	2.9	30	
Dibenz(a,h)anthracene	0.121	0.000614	"	0.167	<0.000614	72.4	30-130	4.2	30	
Fluoranthene	0.0973	0.000394	"	0.167	<0.000394	58.2	30-130	0.8	30	
Fluorene	0.079	0.000286	"	0.167	<0.000286	47.3	30-130	1.2	30	
Indeno(1,2,3-cd)pyrene	0.108	0.000627	"	0.167	<0.000627	64.6	30-130	5.7	30	
Pyrene	0.0975	0.000643	"	0.167	<0.000643	58.3	30-130	0.3	30	
Benzo(b)fluoranthene	0.0956	0.000585	"	0.167	<0.000585	57.2	30-130	2.6	30	
Surrogate: 2-Fluorobiphenyl	54.9		"	0.333	188	54.9	33-115			
Surrogate: 4-Terphenyl-d14	73.2		"	0.333	247	73.2	33-122			
Surrogate: Nitrobenzene-d5	50.1		"	0.333	170	50.1	29-110			

MS (G 74929-MS-L604990)		Source: 74929			Prepared: 03/15/2022 Analyzed: 03/15/2022					
Benzo(k)fluoranthene	0.108	0.000437	mg/Kg	0.163	<0.000437	66.2	30-130			
Pyrene	0.0972	0.000643	"	0.163	<0.000643	59.6	30-130			
Indeno(1,2,3-cd)pyrene	0.102	0.000627	"	0.163	<0.000627	62.5	30-130			

Origins Laboratory, Inc.



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Entrada Consulting Group  
330 Grand Ave. Unit C  
Grand Junction CO 81501

Jeremy Pike  
Project Number: [none]  
Project: Heinze #1

**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L604990 - 3550B**

MS (G 74929-MS-L604990)		Source: 74929			Prepared: 03/15/2022 Analyzed: 03/15/2022					
Fluorene	0.08	0.000286	mg/Kg	0.163	<0.000286	49	30-130			
Fluoranthene	0.0981	0.000394	"	0.163	<0.000394	60.1	30-130			
Chrysene	0.104	0.000624	"	0.163	<0.000624	63.8	30-130			
Benzo(b)fluoranthene	0.0982	0.000585	"	0.163	<0.000585	60.2	30-130			
Benzo(a)anthracene	0.0968	0.000493	"	0.163	<0.000493	59.3	30-130			
Anthracene	0.0906	0.000334	"	0.163	<0.000334	55.5	30-130			
Acenaphthene	0.0769	0.000304	"	0.163	<0.000304	47.1	30-130			
2-Methylnaphthalene	0.0767	0.000645	"	0.163	<0.000645	47	30-130			
1-Methylnaphthalene	0.0898	0.000364	"	0.163	<0.000364	55	30-130			
Benzo(a)pyrene	0.106	0.000468	"	0.163	<0.000468	65	30-130			
Dibenz(a,h)anthracene	0.116	0.000614	"	0.163	<0.000614	71.1	30-130			
Surrogate: Nitrobenzene-d5	51.9		"	0.327	170	51.9	29-110			
Surrogate: 4-Terphenyl-d14	74.6		"	0.327	247	74.6	33-122			
Surrogate: 2-Fluorobiphenyl	58.7		"	0.327	188	58.7	33-115			

**LCS (LCS-L604990)**

Prepared: 03/15/2022 Analyzed: 03/15/2022

Pyrene	0.0941	0.000643	mg/Kg	0.167		56.3	30-130
Benzo(a)pyrene	0.107	0.000468	"	0.167		64	30-130
Benzo(b)fluoranthene	0.0914	0.000585	"	0.167		54.7	30-130
Benzo(k)fluoranthene	0.111	0.000437	"	0.167		66.4	30-130
Chrysene	0.0983	0.000624	"	0.167		58.8	30-130
Dibenz(a,h)anthracene	0.113	0.000614	"	0.167		67.6	30-130
Fluoranthene	0.0946	0.000394	"	0.167		56.6	30-130
Fluorene	0.0768	0.000286	"	0.167		45.9	30-130
Acenaphthene	0.0711	0.000304	"	0.167		42.5	30-130
Indeno(1,2,3-cd)pyrene	0.0982	0.000627	"	0.167		58.8	30-130
Benzo(a)anthracene	0.0924	0.000493	"	0.167		55.3	30-130

Origins Laboratory, Inc.



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Entrada Consulting Group  
330 Grand Ave. Unit C  
Grand Junction CO 81501

Jeremy Pike  
Project Number: [none]  
Project: Heinze #1

**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L604990 - 3550B**

**LCS (LCS-L604990)**

Prepared: 03/15/2022 Analyzed: 03/15/2022

2-Methylnaphthalene	0.0709	0.000645	mg/Kg	0.167		42.4	30-130			
1-Methylnaphthalene	0.0827	0.000364	"	0.167		49.5	30-130			
Anthracene	0.0829	0.000334	"	0.167		49.6	30-130			
Surrogate: Nitrobenzene-d5	51.6		"	0.333		51.6	29-110			
Surrogate: 4-Terphenyl-d14	77.4		"	0.333		77.4	33-122			
Surrogate: 2-Fluorobiphenyl	58.2		"	0.333		58.2	33-115			

**LRB (LRB-L604990)**

Prepared: 03/15/2022 Analyzed: 03/15/2022

Fluorene	ND	0.00067	mg/Kg				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	54.3		"	0.333		54.3	29-110			
Surrogate: 4-Terphenyl-d14	70.2		"	0.333		70.2	33-122			
Surrogate: 2-Fluorobiphenyl	62.1		"	0.333		62.1	33-115			

Origins Laboratory, Inc.



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Entrada Consulting Group  
330 Grand Ave. Unit C  
Grand Junction CO 81501

Jeremy Pike  
Project Number: [none]  
Project: Heinze #1

## Total Metals by 6020B - Quality Control Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch L605626 - 3050B</b>										
<b>MSD (L 92230-MSD-L605626)</b>		<b>Source: 92230</b>			Prepared: 03/18/2022 Analyzed: 03/20/2022					
Barium	116	0.042	mg/Kg	4.73	95.6	431	75-125	0.8	80	*
Selenium	2.37	0.103	"	4.73	<0.103	50	75-125	3.7	80	I*
<b>MS (L 92230-MS-L605626)</b>		<b>Source: 92230</b>			Prepared: 03/18/2022 Analyzed: 03/20/2022					
Barium	117	0.042	mg/Kg	4.95	95.6	433	75-125			*
Selenium	2.46	0.103	"	4.95	<0.103	50	75-125			I*
<b>LCS (LCS-L605626)</b>		Prepared: 03/18/2022 Analyzed: 03/20/2022								
Selenium	5.11	0.103	mg/Kg	5		102	80-120			
Barium	5.19	0.042	"	5		104	80-120			
<b>LRB (LRB-L605626)</b>		Prepared: 03/18/2022 Analyzed: 03/20/2022								
Selenium	ND	0.25	mg/Kg				-			
Barium	ND	0.25	"				-			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Jeremy Pike

Project Number: [none]

Project: Heinze #1

### Notes and Definitions

U Sample is Non-Detect.

I\* [Undefined]

\* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Jordan A. Bynon For Jen Pellegrini, Project Manager





March 07, 2022

Entrada Consulting Group

Ben Baugh

330 Grand Ave. Unit C

Grand Junction CO 81501

Project Name - Heinze #1

Project Number - -

Attached are your analytical results for Heinze #1 received by Origins Laboratory, Inc. March 03, 2022. This project is associated with Origins project number Y203096-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.  
303.433.1322  
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: -

Project: Heinze #1

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GW02	Y203096-01	Water	March 3, 2022 11:25	03/03/2022 15:30

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Jen Pellegrini, Project Manager





Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: -

Project: Heinze #1

Origins Laboratory

## Sample Receipt Checklist

F-012207-01-R1  
Effective Date: 01/09/12

Origins Work Order: 7203096

Client: Entrada

Client Project ID: Heinze #1

Checklist Completed by: JB

Shipped Via: FA

Date/time completed: 3/3/22

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Airbill #: N/A

Matrix(s) Received: (Check all that apply): Soil/Solid ☒ Water ☐ Other: ☐

Cooler Number/Temperature: 1, 12.4 °C 1 °C 1 °C (Describe) °C

Thermometer ID: 7003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		<u>Same Day</u>
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		<input checked="" type="checkbox"/>		
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) JP

Date/Time Reviewed 3/4/22

Origins Laboratory, Inc.

*Jen Pellegrini*

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini, Project Manager

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: -

Project: Heinze #1

GW02

3/3/2022 11:25:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.

Y203096-01 (Water)

## BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B2C0422	ZZZ	03/04/2022	03/06/2022	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	ZZZ	"	"	U
Benzene	ND	1.00	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	1.00	"	"	"	ZZZ	"	"	U
Naphthalene	ND	2.00	"	"	"	ZZZ	"	"	U
Toluene	ND	1.00	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	1.00	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4

88.4 % 70-130

"

"

"

Surrogate: Toluene-d8

98.2 % 70-130

"

"

"

Surrogate: 4-Bromofluorobenzene

93.4 % 70-130

"

"

"

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini, Project Manager

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: -

Project: Heinze #1

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch B2C0422 - EPA 5030B (Water)**

**Blank (B2C0422-BLK1)**

Prepared: 03/04/2022 Analyzed: 03/05/2022

1,2,4-Trimethylbenzene	ND	2.00	ug/L							U
1,3,5-Trimethylbenzene	ND	2.00	"							U
Benzene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Naphthalene	ND	2.00	"							U
Toluene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	54		"	62.5		86.7	70-130			
Surrogate: Toluene-d8	69		"	62.5		110	70-130			
Surrogate: 4-Bromofluorobenzene	58		"	62.5		93.2	70-130			

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Jen Pellegrini, Project Manager



Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: -

Project: Heinze #1

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B2C0422 - EPA 5030B (Water)</b>										
<b>LCS (B2C0422-BS1)</b>					Prepared: 03/04/2022 Analyzed: 03/05/2022					
1,2,4-Trimethylbenzene	50.9	2.00	ug/L	50.0		102	70-130			
1,3,5-Trimethylbenzene	51.7	2.00	"	50.0		103	70-130			
Benzene	43.5	1.00	"	50.0		86.9	70-130			
Ethylbenzene	51.7	1.00	"	50.0		103	70-130			
m,p-Xylene	103	2.00	"	100		103	70-130			
Naphthalene	49.0	2.00	"	50.0		97.9	70-130			
o-Xylene	51.1	1.00	"	50.0		102	70-130			
Toluene	45.9	1.00	"	50.0		91.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	54		"	62.5		85.7	70-130			
Surrogate: Toluene-d8	65		"	62.5		104	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Jen Pellegrini, Project Manager

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: -

Project: Heinze #1

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B2C0422 - EPA 5030B (Water)**

Matrix Spike (B2C0422-MS1)		Source: Y203060-01			Prepared: 03/04/2022 Analyzed: 03/05/2022					
1,2,4-Trimethylbenzene	51.7	2.00	ug/L	50.0	ND	103	70-130			
1,3,5-Trimethylbenzene	51.5	2.00	"	50.0	ND	103	70-130			
Benzene	45.0	1.00	"	50.0	ND	90.0	70-130			
Ethylbenzene	51.0	1.00	"	50.0	ND	102	70-130			
m,p-Xylene	102	2.00	"	100	ND	102	70-130			
Naphthalene	49.7	2.00	"	50.0	ND	99.4	70-130			
o-Xylene	50.6	1.00	"	50.0	ND	101	70-130			
Toluene	44.4	1.00	"	50.0	ND	88.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	55		"	62.5		87.8	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	70-130			

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Jen Pellegrini, Project Manager

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: -

Project: Heinze #1

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B2C0422 - EPA 5030B (Water)</b>										
<b>Matrix Spike Dup (B2C0422-MSD1)</b>			<b>Source: Y203060-01</b>		Prepared: 03/04/2022 Analyzed: 03/05/2022					
1,2,4-Trimethylbenzene	50.2	2.00	ug/L	50.0	ND	100	70-130	2.88	20	
1,3,5-Trimethylbenzene	50.1	2.00	"	50.0	ND	100	70-130	2.79	20	
Benzene	44.4	1.00	"	50.0	ND	88.7	70-130	1.48	20	
Ethylbenzene	49.5	1.00	"	50.0	ND	99.1	70-130	3.02	20	
m,p-Xylene	98.3	2.00	"	100	ND	98.3	70-130	3.58	20	
Naphthalene	51.2	2.00	"	50.0	ND	102	70-130	3.03	20	
o-Xylene	49.4	1.00	"	50.0	ND	98.7	70-130	2.36	20	
Toluene	43.8	1.00	"	50.0	ND	87.6	70-130	1.38	20	
Surrogate: 1,2-Dichloroethane-d4	55		"	62.5		88.5	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Jen Pellegrini, Project Manager



Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: -

Project: Heinze #1

---

### Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

---

Jen Pellegrini, Project Manager



April 04, 2022

Entrada Consulting Group

Ben Baugh

330 Grand Ave. Unit C

Grand Junction CO 81501

Project Name - Heinze #1

Project Number - [none]

Attached are your analytical results for Heinze #1 received by Origins Laboratory, Inc. March 11, 2022. This project is associated with Origins project number Y203309-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.  
303.433.1322  
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: [none]

Project: Heinze #1

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EX01-5	Y203309-01	Soil	March 11, 2022 12:15	03/11/2022 17:35
EX02-5	Y203309-02	Soil	March 11, 2022 11:15	03/11/2022 17:35
EX03-5	Y203309-03	Soil	March 11, 2022 11:45	03/11/2022 17:35
EX04-5	Y203309-04	Soil	March 11, 2022 11:50	03/11/2022 17:35
EX05-5	Y203309-05	Soil	March 11, 2022 11:55	03/11/2022 17:35
EX06-5	Y203309-06	Soil	March 11, 2022 12:10	03/11/2022 17:35
EX07-5	Y203309-07	Soil	March 11, 2022 15:00	03/11/2022 17:35
EX08-2	Y203309-08	Soil	March 11, 2022 15:20	03/11/2022 17:35
EX09-2	Y203309-09	Soil	March 11, 2022 15:25	03/11/2022 17:35
EX10-2	Y203309-10	Soil	March 11, 2022 15:30	03/11/2022 17:35
EX11-5	Y203309-11	Soil	March 11, 2022 15:35	03/11/2022 17:35

## Chain of Custody Modification Request

On 3/28/2022, Jeremy Pike from Entrada contacted Jordan Bynon via email regarding Y203309 requesting that pH, EC, SAR, Boron, and the remaining list of Table 915 metals be added to EX11-5.

Requested modifications to the chain of custody were made by Jordan Bynon on 3/28/2022.

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: [none]

Project: Heinze #1

# ORIGINS

LABORATORY, INC

www.originslaboratory.com

Bill To JAGGA  
DAVIDSON AT  
GREAT WESTERN

703300

page 1 of 1

Client: Entrada Consulting Group  
Address: [blank]  
Telephone Number: 435-630-4748  
Email Address: JDAVIDSON@ENTRADA.COM, BBWAUGH@ENTRADA.COM

Project Manager: Ben Baugh  
Project Name: HEINZE #1  
Project Number: [blank]  
Samples Collected By: TRENT PIKE

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix		Analysis	Sample Instructions
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil		
EX01-5	3/11/22	1215	2	X				X		STEIN, TAMS, TTH- PHT, BACIUM SELENIUM	GR0100/000
EX02-5		1115									
EX07-5		1145									
EX04-5		1150									
EX05-5		1155									
EX06-5		1210									
EX07-3		1500									
EX08-2		1520									
EX09-2		1525									
EX10-2		1530									
EX11-5		1535									
Relinquished By: [Signature]	Date: 3/11/22	Time: 1735		Received By: [Signature]				Date: 3/11/22	Time: 1735	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input checked="" type="checkbox"/> Standard <input type="checkbox"/>	
Relinquished By: [Signature]	Date: [blank]	Time: [blank]		Received By: [blank]				Date: [blank]	Time: [blank]	Date Results Needed: [blank]	

1725 Elk Place | Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Origins Laboratory, Inc.

*J. Bynon*

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: [none]

Project: Heinze #1

Origins Laboratory

## Sample Receipt Checklist

F-012207-01-R1  
Effective Date: 01/09/12

Origins Work Order: 420307

Client: Entrada

Client Project ID: Heinze #1

Checklist Completed by: KH

Shipped Via: HD  
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 3/14/22

Airbill #: 124

Matrix(s) Received: (Check all that apply): ☒ Soil/Solid ☐ Water ☐ Other: \_\_\_\_\_

Cooler Number/Temperature: 1 / 6.4 °C 1 °C 1 °C (Describe) 1 °C

Thermometer ID: 1005

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		<u>same day</u>
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)(pH < 2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH > 10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

<sup>(1)</sup>If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) gdp

Date/Time Reviewed 3/14/22

Origins Laboratory, Inc.

*J. Bynon*

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Entrada Consulting Group  
330 Grand Ave. Unit C  
Grand Junction CO 81501

Ben Baugh  
Project Number: [none]  
Project: Heinze #1

EX01-5

3/11/2022 12:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.  
Y203309-01 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2C1409	03/14/2022	03/17/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 95.5 % 50-150 " " "

## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2C1517	03/15/2022	03/17/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Naphthalene	ND	0.00380	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 100 % 70-130 " " "  
Surrogate: Toluene-d8 100 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 99.9 % 70-130 " " "

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Entrada Consulting Group  
330 Grand Ave. Unit C  
Grand Junction CO 81501

Ben Baugh  
Project Number: [none]  
Project: Heinze #1

## EX01-5

3/11/2022 12:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Waypoint Analytical, Inc. Y203309-01 (Soil)

### PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L605816	03/18/2022	03/21/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	51.5 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	61.8 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	57 %	29-110	"	"	"

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: [none]

Project: Heinze #1

EX01-5

3/11/2022 12:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.

Y203309-01 (Soil)

## Total Metals by 6020B

Barium	42.9	0.042	0.25	mg/Kg	5	L605010	03/15/2022	03/19/2022
Selenium	ND	0.103	0.25	"	"	"	"	"

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Entrada Consulting Group  
330 Grand Ave. Unit C  
Grand Junction CO 81501

Ben Baugh  
Project Number: [none]  
Project: Heinze #1

## EX02-5

3/11/2022 11:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y203309-02 (Soil)

### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2C1409	03/14/2022	03/17/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl 106 % 50-150 " " "

### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2C1517	03/15/2022	03/17/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	ND		0.00380	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 103 % 70-130 " " "  
Surrogate: Toluene-d8 100 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 98.6 % 70-130 " " "

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: [none]

Project: Heinze #1

EX02-5

3/11/2022 11:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.

Y203309-02 (Soil)

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L605816	03/18/2022	03/21/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	49.8 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	59.6 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	55.3 %	29-110	"	"	"

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: [none]

Project: Heinze #1

EX02-5

3/11/2022 11:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.

Y203309-02 (Soil)

## Total Metals by 6020B

Barium	31.1	0.042	0.25	mg/Kg	5	L605010	03/15/2022	03/19/2022
Selenium	ND	0.103	0.25	"	"	"	"	"

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Entrada Consulting Group  
330 Grand Ave. Unit C  
Grand Junction CO 81501

Ben Baugh  
Project Number: [none]  
Project: Heinze #1

**EX03-5**

**3/11/2022 11:45:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y203309-03 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2C1409	03/14/2022	03/17/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 97.0 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2C1517	03/15/2022	03/17/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Naphthalene	ND	0.00380	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 101 % 70-130 " " "  
Surrogate: Toluene-d8 104 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 101 % 70-130 " " "

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: [none]

Project: Heinze #1

EX03-5

3/11/2022 11:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.

Y203309-03 (Soil)

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L605816	03/18/2022	03/21/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	51.7 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	58.6 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	56.8 %	29-110	"	"	"

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: [none]

Project: Heinze #1

EX03-5

3/11/2022 11:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.

Y203309-03 (Soil)

## Total Metals by 6020B

Barium	55.4	0.042	0.25	mg/Kg	5	L605010	03/15/2022	03/19/2022
Selenium	ND	0.103	0.25	"	"	"	"	"

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Entrada Consulting Group  
330 Grand Ave. Unit C  
Grand Junction CO 81501

Ben Baugh  
Project Number: [none]  
Project: Heinze #1

## EX04-5

3/11/2022 11:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y203309-04 (Soil)

### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2C1409	03/14/2022	03/17/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 98.0 % 50-150 " " "

### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2C1517	03/15/2022	03/17/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Naphthalene	ND	0.00380	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 105 % 70-130 " " "  
Surrogate: Toluene-d8 99.8 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 98.4 % 70-130 " " "

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Entrada Consulting Group  
330 Grand Ave. Unit C  
Grand Junction CO 81501

Ben Baugh  
Project Number: [none]  
Project: Heinze #1

## EX04-5

3/11/2022 11:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Waypoint Analytical, Inc. Y203309-04 (Soil)

### PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L605816	03/18/2022	03/21/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	50.9 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	61.8 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	55.5 %	29-110	"	"	"

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: [none]

Project: Heinze #1

EX04-5

3/11/2022 11:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.

Y203309-04 (Soil)

## Total Metals by 6020B

Barium	59.2	0.042	0.25	mg/Kg	5	L605010	03/15/2022	03/19/2022
Selenium	ND	0.103	0.25	"	"	"	"	"

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Entrada Consulting Group  
330 Grand Ave. Unit C  
Grand Junction CO 81501

Ben Baugh  
Project Number: [none]  
Project: Heinze #1

EX05-5

3/11/2022 11:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y203309-05 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2C1501	03/15/2022	03/18/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 88.6 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2C1517	03/15/2022	03/17/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Naphthalene	ND	0.00380	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 105 % 70-130 " " "  
Surrogate: Toluene-d8 102 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 99.2 % 70-130 " " "

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: [none]

Project: Heinze #1

**EX05-5**

**3/11/2022 11:55:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**

**Y203309-05 (Soil)**

**PAH by 8270D SIM**

1-Methylnaphthalene	0.00082	0.000364	0.00067	mg/Kg	1	L605816	03/18/2022	03/21/2022	
2-Methylnaphthalene	0.000725	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	
Fluorene	0.000384	0.000286	0.00067	"	"	"	"	"	J
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	52.6 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	61 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	57.1 %	29-110	"	"	"

**Total Metals by 6020B**

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: [none]

Project: Heinze #1

EX05-5

3/11/2022 11:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.

Y203309-05 (Soil)

## Total Metals by 6020B

Barium	64.7	0.042	0.25	mg/Kg	5	L605010	03/15/2022	03/19/2022
Selenium	ND	0.103	0.25	"	"	"	"	"

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: [none]

Project: Heinze #1

EX06-5

3/11/2022 12:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y203309-06 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2C1501	03/15/2022	03/18/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	91.9 %		50-150			"	"	"	
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## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2C1517	03/15/2022	03/17/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	ND		0.00380	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %		70-130			"	"	"	
Surrogate: Toluene-d8	103 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.5 %		70-130			"	"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: [none]

Project: Heinze #1

EX06-5

3/11/2022 12:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.

Y203309-06 (Soil)

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L605816	03/18/2022	03/21/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	51.5 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	62.4 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	57.3 %	29-110	"	"	"

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: [none]

Project: Heinze #1

EX06-5

3/11/2022 12:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.

Y203309-06 (Soil)

## Total Metals by 6020B

Barium	48.1	0.042	0.25	mg/Kg	5	L605010	03/15/2022	03/19/2022
Selenium	ND	0.103	0.25	"	"	"	"	"

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Entrada Consulting Group  
330 Grand Ave. Unit C  
Grand Junction CO 81501

Ben Baugh  
Project Number: [none]  
Project: Heinze #1

## EX07-5

3/11/2022 3:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y203309-07 (Soil)

### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2C1501	03/15/2022	03/18/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 89.2 % 50-150 " " "

### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2C1517	03/15/2022	03/17/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Naphthalene	ND	0.00380	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 104 % 70-130 " " "  
Surrogate: Toluene-d8 107 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 98.6 % 70-130 " " "

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Entrada Consulting Group  
330 Grand Ave. Unit C  
Grand Junction CO 81501

Ben Baugh  
Project Number: [none]  
Project: Heinze #1

EX07-5  
3/11/2022 3:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y203309-07 (Soil)**

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L605816	03/18/2022	03/21/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	51.2 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	61.8 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	57 %	29-110	"	"	"

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: [none]

Project: Heinze #1

EX07-5

3/11/2022 3:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.

Y203309-07 (Soil)

## Total Metals by 6020B

Barium	35.6	0.042	0.25	mg/Kg	5	L605010	03/15/2022	03/19/2022
Selenium	ND	0.103	0.25	"	"	"	"	"

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Entrada Consulting Group  
330 Grand Ave. Unit C  
Grand Junction CO 81501

Ben Baugh  
Project Number: [none]  
Project: Heinze #1

## EX08-2

3/11/2022 3:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y203309-08 (Soil)

### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2C1501	03/15/2022	03/18/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 89.6 % 50-150 " " "

### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2C1517	03/15/2022	03/17/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Naphthalene	ND	0.00380	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 110 % 70-130 " " "  
Surrogate: Toluene-d8 105 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 96.8 % 70-130 " " "

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: [none]

Project: Heinze #1

## EX08-2

3/11/2022 3:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Waypoint Analytical, Inc.

Y203309-08 (Soil)

### PAH by 8270D SIM

1-Methylnaphthalene	0.000372	0.000364	0.00067	mg/Kg	1	L605816	03/18/2022	03/21/2022	J
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	
Fluorene	ND	0.000286	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	53.6 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	63.3 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	58.2 %	29-110	"	"	"

### Total Metals by 6020B

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: [none]

Project: Heinze #1

**EX08-2****3/11/2022 3:20:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.****Y203309-08 (Soil)****Total Metals by 6020B**

Barium	88.8	0.042	0.25	mg/Kg	5	L605010	03/15/2022	03/19/2022
Selenium	ND	0.103	0.25	"	"	"	"	"

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Entrada Consulting Group  
330 Grand Ave. Unit C  
Grand Junction CO 81501

Ben Baugh  
Project Number: [none]  
Project: Heinze #1

## EX09-2

3/11/2022 3:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y203309-09 (Soil)

### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2C1501	03/15/2022	03/18/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 85.4 % 50-150 " " "

### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2C1517	03/15/2022	03/17/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Naphthalene	ND	0.00380	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 106 % 70-130 " " "  
Surrogate: Toluene-d8 104 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 98.4 % 70-130 " " "

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: [none]

Project: Heinze #1

## EX09-2

3/11/2022 3:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Waypoint Analytical, Inc.

Y203309-09 (Soil)

### PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L605863	03/19/2022	03/22/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	65 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	70.4 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	50.5 %	29-110	"	"	"

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: [none]

Project: Heinze #1

**EX09-2****3/11/2022 3:25:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.****Y203309-09 (Soil)****Total Metals by 6020B**

Barium	60.8	0.042	0.25	mg/Kg	5	L605010	03/15/2022	03/19/2022	
Selenium	ND	0.103	0.25	"	"	"	"	"	

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Entrada Consulting Group  
330 Grand Ave. Unit C  
Grand Junction CO 81501

Ben Baugh  
Project Number: [none]  
Project: Heinze #1

**EX10-2**  
**3/11/2022 3:30:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y203309-10 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2C1501	03/15/2022	03/18/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 93.3 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2C1517	03/15/2022	03/18/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Naphthalene	ND	0.00380	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 105 % 70-130 " " "  
Surrogate: Toluene-d8 103 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 97.1 % 70-130 " " "

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Entrada Consulting Group  
330 Grand Ave. Unit C  
Grand Junction CO 81501

Ben Baugh  
Project Number: [none]  
Project: Heinze #1

**EX10-2**  
**3/11/2022 3:30:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y203309-10 (Soil)**

**PAH by 8270D SIM**

1-Methylnaphthalene	0.00239	0.000364	0.00067	mg/Kg	1	L605863	03/19/2022	03/22/2022
2-Methylnaphthalene	0.000768	0.000645	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	0.000763	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	0.00218	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	0.00215	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	0.00275	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	0.00192	0.000437	0.00067	"	"	"	"	"
Chrysene	0.00364	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	0.00366	0.000614	0.00067	"	"	"	"	"
Fluoranthene	0.00159	0.000394	0.00067	"	"	"	"	"
Fluorene	0.00115	0.000286	0.00067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	0.00419	0.000627	0.00067	"	"	"	"	"
Pyrene	0.00234	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	68.9 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	75 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	55.2 %	29-110	"	"	"

**Total Metals by 6020B**

Barium	63.9	0.042	0.25	mg/Kg	5	L605010	03/15/2022	03/19/2022
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: [none]

Project: Heinze #1

**EX10-2****3/11/2022 3:30:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.****Y203309-10 (Soil)****Total Metals by 6020B**

Selenium	ND	0.103	0.25	mg/Kg	5	L605010	03/15/2022	03/19/2022
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Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Entrada Consulting Group  
330 Grand Ave. Unit C  
Grand Junction CO 81501

Ben Baugh  
Project Number: [none]  
Project: Heinze #1

EX11-5  
3/11/2022 3:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y203309-11 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.238	0.0991	mg/L	1	B2C2909	03/29/2022	03/30/2022
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	8220	250	mg/kg	10	B2C1501	03/15/2022	03/20/2022
Residual Range Organics (C28-C40)	3480	1000	"	"	"	"	"

Surrogate: o-Terphenyl	294 %	50-150	"	"	"	"	S-DUP
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	48.2	0.500	mg/kg	250	B2C1517	03/15/2022	03/18/2022
1,3,5-Trimethylbenzene	15.4	0.500	"	"	"	"	"
Benzene	0.522	0.0500	"	25	"	"	03/18/2022 R-05
Ethylbenzene	14.7	0.500	"	250	"	"	03/18/2022
Naphthalene	4.20	0.950	"	"	"	"	" R-05
Toluene	0.407	0.0500	"	25	"	"	03/18/2022 R-05
Xylenes, total	72.7	0.500	"	250	"	"	03/18/2022
Gasoline Range Hydrocarbons	1550	100	"	500	"	"	03/18/2022

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130	"	"	"	"
Surrogate: Toluene-d8	102 %	70-130	"	"	"	"

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: [none]

Project: Heinze #1

EX11-5

3/11/2022 3:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y203309-11 (Soil)

## GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene

108 %

70-130

B2C15  
17

03/15/2022

03/18/2022

## Metals by Saturated Paste by EPA 6010

Calcium	2.56	0.499	meq/L	10	[CALC]	03/29/2022	03/31/2022
Magnesium	2.30	0.823	"	"	"	"	"
Sodium	3.30	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	2.15	0.00728	0.0134	mg/Kg	20	L605862	03/19/2022	03/22/2022
2-Methylnaphthalene	3.14	0.0129	0.0134	"	"	"	"	"
Acenaphthene	0.103	0.00608	0.0134	"	"	"	"	"
Anthracene	0.0216	0.00668	0.0134	"	"	"	"	"
Benzo(a)anthracene	0.0159	0.00986	0.0134	"	"	"	"	"
Benzo(a)pyrene	0.00964	0.00936	0.0134	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.0117	0.0134	"	"	"	"	"
Benzo(k)fluoranthene	0.0195	0.00874	0.0134	"	"	"	"	"
Chrysene	0.121	0.0125	0.0134	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.0123	0.0134	"	"	"	"	"
Fluoranthene	ND	0.00788	0.0134	"	"	"	"	"
Fluorene	0.348	0.00572	0.0134	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.0125	0.0134	"	"	"	"	"

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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: [none]

Project: Heinze #1

**EX11-5**

**3/11/2022 3:35:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**

**Y203309-11 (Soil)**

**PAH by 8270D SIM**

Pyrene	0.0319	0.0129	0.0134	mg/Kg	20	L605862	03/19/2022	03/22/2022
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Surrogate: 2-Fluorobiphenyl	66.5 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	67.7 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	95.8 %	29-110	"	"	"

**pH in Soil by 9045D**

pH	7.50	pH Units	1	B2C2915	03/31/2022	04/01/2022
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**SAR by 20B Saturated Paste**

SAR	2.12	SAR	1	B2C2906	03/29/2022	03/31/2022
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.766	0.00500	mmhos/cm	1	B2C2913	03/30/2022	03/31/2022
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**Total Metals by 6020B**

Arsenic	2.3	0.0855	0.25	mg/Kg	5	L605010	03/15/2022	03/19/2022
Cadmium	0.114	0.0259	0.25	"	"	"	"	J
Copper	3.96	0.0806	0.25	"	"	"	"	"
Lead	4.94	0.031	0.25	"	"	"	"	"

Origins Laboratory, Inc.



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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: [none]

Project: Heinze #1

EX11-5

3/11/2022 3:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.

Y203309-11 (Soil)

## Total Metals by 6020B

Nickel	4.72	0.0633	0.25	mg/Kg	5	L605010	03/15/2022	03/19/2022	
Silver	0.0637	0.0067	0.25	"	"	"	"	"	J
Zinc	18.1	0.534	2.5	"	"	"	"	"	
Barium	50.4	0.042	0.25	"	"	"	"	"	
Selenium	ND	0.103	0.25	"	"	"	"	"	

## Total Metals by 7196A

Chromium, Hexavalent	ND	0.246	0.505	mg/Kg	1	L608318	03/11/2022	04/01/2022	
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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: [none]

Project: Heinze #1

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B2C1409 - EPA 3550B</b>										
<b>Blank (B2C1409-BLK1)</b>					Prepared: 03/14/2022 Analyzed: 03/16/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	28		"	24.9		113	50-150			

Origins Laboratory, Inc.



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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: [none]

Project: Heinze #1

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B2C1409 - EPA 3550B**

**LCS (B2C1409-BS1)**

Prepared: 03/14/2022 Analyzed: 03/16/2022

Diesel (C10-C28)	1280	50.0	mg/kg	1000		128	70-130			
Residual Range Organics (C28-C40)	1290	200	"	1000		129	70-130			
Surrogate: o-Terphenyl	56		"	49.8		113	50-150			

Origins Laboratory, Inc.



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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: [none]

Project: Heinze #1

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B2C1409 - EPA 3550B**

Matrix Spike (B2C1409-MS1)		Source: Y203269-02			Prepared: 03/14/2022 Analyzed: 03/16/2022					
Diesel (C10-C28)	1170	50.0	mg/kg	1000	ND	117	70-130			
Residual Range Organics (C28-C40)	1240	200	"	1000	ND	124	70-130			
Surrogate: o-Terphenyl	52		"	49.8		104	50-150			

Origins Laboratory, Inc.



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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: [none]

Project: Heinze #1

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B2C1409 - EPA 3550B**

<b>Matrix Spike Dup (B2C1409-MSD1)</b>		<b>Source: Y203269-02</b>			Prepared: 03/14/2022 Analyzed: 03/16/2022					
Diesel (C10-C28)	1220	50.0	mg/kg	1000	ND	122	70-130	3.92	35	
Residual Range Organics (C28-C40)	1280	200	"	1000	ND	128	70-130	3.15	35	
Surrogate: o-Terphenyl	62		"	49.8		124	50-150			

Origins Laboratory, Inc.



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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: [none]

Project: Heinze #1

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B2C1501 - EPA 3550B</b>										
<b>Blank (B2C1501-BLK1)</b>					Prepared: 03/15/2022 Analyzed: 03/18/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	26		"	24.9		103	50-150			

Origins Laboratory, Inc.



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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: [none]

Project: Heinze #1

## Extractable Petroleum Hydrocarbons by 8015D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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### Batch B2C1501 - EPA 3550B

#### LCS (B2C1501-BS1)

Prepared: 03/15/2022 Analyzed: 03/18/2022

Diesel (C10-C28)	980	50.0	mg/kg	1000		98.0	70-130			
Residual Range Organics (C28-C40)	1040	200	"	1000		104	70-130			
Surrogate: o-Terphenyl	50		"	49.8		100	50-150			

Origins Laboratory, Inc.



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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: [none]

Project: Heinze #1

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B2C1501 - EPA 3550B**

Matrix Spike (B2C1501-MS1)		Source: Y203309-05			Prepared: 03/15/2022 Analyzed: 03/18/2022					
Diesel (C10-C28)	934	50.0	mg/kg	1000	ND	93.4	70-130			
Residual Range Organics (C28-C40)	1030	200	"	1000	ND	103	70-130			
Surrogate: o-Terphenyl	47		"	49.8		94.7	50-150			

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330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: [none]

Project: Heinze #1

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B2C1501 - EPA 3550B**

<b>Matrix Spike Dup (B2C1501-MSD1)</b>		<b>Source: Y203309-05</b>			Prepared: 03/15/2022 Analyzed: 03/18/2022					
Diesel (C10-C28)	941	50.0	mg/kg	1000	ND	94.1	70-130	0.764	35	
Residual Range Organics (C28-C40)	960	200	"	1000	ND	96.0	70-130	6.67	35	
Surrogate: o-Terphenyl	55		"	49.8		111	50-150			

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330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: [none]

Project: Heinze #1

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B2C1517 - EPA 5030 (soil)**

**Blank (B2C1517-BLK1)**

Prepared: 03/15/2022 Analyzed: 03/17/2022

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.0100	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.3	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.3	70-130			

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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: [none]

Project: Heinze #1

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B2C1517 - EPA 5030 (soil)**

**LCS (B2C1517-BS1)**

Prepared: 03/15/2022 Analyzed: 03/17/2022

1,2,4-Trimethylbenzene	0.0977	0.00200	mg/kg	0.100		97.7	70-130			
1,3,5-Trimethylbenzene	0.0992	0.00200	"	0.100		99.2	70-130			
Benzene	0.0893	0.00200	"	0.100		89.3	70-130			
Ethylbenzene	0.0979	0.00200	"	0.100		97.9	70-130			
Naphthalene	0.0882	0.0100	"	0.100		88.2	70-130			
Toluene	0.0863	0.00200	"	0.100		86.3	70-130			
o-Xylene	0.0965	0.00200	"	0.100		96.5	70-130			
m,p-Xylene	0.192	0.00400	"	0.200		96.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.0	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		108	70-130			

Origins Laboratory, Inc.



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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: [none]

Project: Heinze #1

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B2C1517 - EPA 5030 (soil)**

Matrix Spike (B2C1517-MS1)		Source: Y203309-01			Prepared: 03/15/2022 Analyzed: 03/17/2022					
1,2,4-Trimethylbenzene	0.102	0.00200	mg/kg	0.100	ND	102	70-130			
1,3,5-Trimethylbenzene	0.102	0.00200	"	0.100	ND	102	70-130			
Benzene	0.101	0.00200	"	0.100	ND	101	70-130			
Ethylbenzene	0.102	0.00200	"	0.100	ND	102	70-130			
Naphthalene	0.101	0.0100	"	0.100	ND	101	70-130			
Toluene	0.0933	0.00200	"	0.100	ND	93.3	70-130			
o-Xylene	0.101	0.00200	"	0.100	ND	101	70-130			
m,p-Xylene	0.201	0.00400	"	0.200	ND	101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

Origins Laboratory, Inc.



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Entrada Consulting Group  
330 Grand Ave. Unit C  
Grand Junction CO 81501

Ben Baugh  
Project Number: [none]  
Project: Heinze #1

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B2C1517 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (B2C1517-MSD1)</b>		<b>Source: Y203309-01</b>			Prepared: 03/15/2022 Analyzed: 03/17/2022					
1,2,4-Trimethylbenzene	0.114	0.00200	mg/kg	0.100	ND	114	70-130	11.0	20	
1,3,5-Trimethylbenzene	0.115	0.00200	"	0.100	ND	115	70-130	11.7	20	
Benzene	0.114	0.00200	"	0.100	ND	114	70-130	12.2	20	
Ethylbenzene	0.115	0.00200	"	0.100	ND	115	70-130	11.9	20	
Naphthalene	0.114	0.0100	"	0.100	ND	114	70-130	11.9	20	
Toluene	0.109	0.00200	"	0.100	ND	109	70-130	15.2	20	
o-Xylene	0.114	0.00200	"	0.100	ND	114	70-130	12.0	20	
m,p-Xylene	0.226	0.00400	"	0.200	ND	113	70-130	11.8	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.9	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

Origins Laboratory, Inc.



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Entrada Consulting Group  
330 Grand Ave. Unit C  
Grand Junction CO 81501

Ben Baugh  
Project Number: [none]  
Project: Heinze #1

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Saturated Paste - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B2C2913 - NO PREP**

**Blank (B2C2913-BLK1)**

Prepared: 03/30/2022 Analyzed: 03/31/2022

Specific Conductance (EC) 0.00100 0.00500 mmhos/cm

**Duplicate (B2C2913-DUP1)**

**Source: Y203495-06**

Prepared: 03/30/2022 Analyzed: 03/31/2022

Specific Conductance (EC) 1.87 0.00500 mmhos/cm 1.68 10.5 25

**Batch B2C2915 - NO PREP**

**Duplicate (B2C2915-DUP1)**

**Source: Y203495-06**

Prepared: 03/31/2022 Analyzed: 04/01/2022

pH 7.68 pH Units 7.86 2.32 25

Origins Laboratory, Inc.



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Entrada Consulting Group  
330 Grand Ave. Unit C  
Grand Junction CO 81501

Ben Baugh  
Project Number: [none]  
Project: Heinze #1

## Total Metals by 6020B - Quality Control Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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### Batch L605010 - 3050B

MSD (L 90836-MSD-L605010)		Source: 90836			Prepared: 03/15/2022 Analyzed: 03/25/2022					
Copper	10.6	0.0806	mg/Kg	2.47	8.22	97	75-125	8.2	80	
Lead	11.7	0.031	"	2.47	9.69	82	75-125	0.8	80	
Nickel	12.6	0.0633	"	2.47	10.4	89	75-125	0.7	80	
Silver	0.471	0.0067	"	0.493	0.0144	93	75-125	1.9	80	
Zinc	56.2	0.534	"	24.7	36.9	78	75-125	1	80	
Cadmium	0.598	0.0259	"	0.493	0.118	97	75-125	3.7	80	
Arsenic	5.95	0.0855	"	2.47	4.05	77	75-125	5.8	80	
MS (L 90836-MS-L605010)		Source: 90836			Prepared: 03/15/2022 Analyzed: 03/22/2022					
Zinc	55.6	0.534	mg/Kg	24.2	36.9	77	75-125			
Arsenic	5.61	0.0855	"	2.42	4.05	65	75-125			*
Cadmium	0.576	0.0259	"	0.484	0.118	95	75-125			
Copper	9.76	0.0806	"	2.42	8.22	64	75-125			*
Lead	11.8	0.031	"	2.42	9.69	87	75-125			
Nickel	12.7	0.0633	"	2.42	10.4	95	75-125			
Silver	0.462	0.0067	"	0.484	0.0144	93	75-125			
LCS (LCS-L605010)					Prepared: 03/15/2022 Analyzed: 03/19/2022					
Cadmium	0.479	0.0259	mg/Kg	0.5		96	80-120			
Copper	2.28	0.0806	"	2.5		91	80-120			
Lead	2.4	0.031	"	2.5		96	80-120			
Nickel	2.35	0.0633	"	2.5		94	80-120			
Silver	0.486	0.0067	"	0.5		97	80-120			
Zinc	23.6	0.534	"	25		94	80-120			
Arsenic	2.57	0.0855	"	2.5		103	80-120			
LRB (LRB-L605010)					Prepared: 03/15/2022 Analyzed: 03/19/2022					

Origins Laboratory, Inc.



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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: [none]

Project: Heinze #1

**Total Metals by 6020B - Quality Control**  
**Waypoint Analytical, LLC.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L605010 - 3050B

LRB (LRB-L605010)

Prepared: 03/15/2022 Analyzed: 03/19/2022

Arsenic	ND	0.25	mg/Kg				-			
Cadmium	ND	0.25	"				-			
Copper	ND	0.25	"				-			
Lead	ND	0.25	"				-			
Nickel	ND	0.25	"				-			
Silver	ND	0.25	"				-			
Zinc	ND	2.5	"				-			

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Ben Baugh  
Project Number: [none]  
Project: Heinze #1

## Total Metals by 7196A - Quality Control Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch L608318 -</b>										
<b>DUP (L 90806-DUP)</b>	<b>Source: Y203309-11</b>				Prepared: Analyzed: 04/01/2022					
Chromium, Hexavalent	ND	0.253	mg/Kg		90806	-		0	20	
<b>MS (L 90806-MS)</b>	<b>Source: Y203309-11</b>				Prepared: Analyzed: 04/01/2022					
Chromium, Hexavalent	3.47	0.252	mg/Kg	8.3	90806	42	75-125			*
<b>LCS (LCS)</b>					Prepared: Analyzed: 04/01/2022					
Chromium, Hexavalent	7.29	0.244	mg/Kg	8		91	75-125			
<b>LRB (LRB)</b>					Prepared: Analyzed: 04/01/2022					
Chromium, Hexavalent	ND	0.5	mg/Kg							

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**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L605863 - 3550B**

<b>MSD (L 90804-MSD-L605863)</b>		<b>Source: Y203309-09</b>			<b>Prepared: 03/19/2022 Analyzed: 03/22/2022</b>					
Benzo(b)fluoranthene	0.123	0.000585	mg/Kg	0.163	90804	75.4	30-130	0.8	30	
1-Methylnaphthalene	0.109	0.000364	"	0.163	90804	66.8	30-130	5.3	30	
2-Methylnaphthalene	0.109	0.000645	"	0.163	90804	66.8	30-130	4.4	30	
Acenaphthene	0.104	0.000304	"	0.163	90804	63.8	30-130	1.9	30	
Benzo(a)anthracene	0.114	0.000493	"	0.163	90804	69.9	30-130	1.7	30	
Benzo(a)pyrene	0.111	0.000468	"	0.163	90804	68	30-130	0.8	30	
Chrysene	0.103	0.000624	"	0.163	90804	63.1	30-130	1.9	30	
Dibenz(a,h)anthracene	0.165	0.000614	"	0.163	90804	101	30-130	8.2	30	
Fluoranthene	0.121	0.000394	"	0.163	90804	74.2	30-130	1.6	30	
Fluorene	0.114	0.000286	"	0.163	90804	69.9	30-130	0.8	30	
Indeno(1,2,3-cd)pyrene	0.158	0.000627	"	0.163	90804	96.9	30-130	7.2	30	
Pyrene	0.124	0.000643	"	0.163	90804	76	30-130	2.3	30	
Anthracene	0.115	0.000334	"	0.163	90804	70.5	30-130	3.4	30	
Benzo(k)fluoranthene	0.102	0.000437	"	0.163	90804	62.5	30-130	0.9	30	
Surrogate: 2-Fluorobiphenyl	71.8		"	0.327	215	71.8	33-115			
Surrogate: 4-Terphenyl-d14	83.7		"	0.327	233	83.7	33-122			
Surrogate: Nitrobenzene-d5	55.9		"	0.327	167	55.9	29-110			

<b>MS (L 90804-MS-L605863)</b>		<b>Source: Y203309-09</b>			<b>Prepared: 03/19/2022 Analyzed: 03/22/2022</b>					
Fluorene	0.115	0.000286	mg/Kg	0.164	90804	70.1	30-130			
Acenaphthene	0.106	0.000304	"	0.164	90804	64.6	30-130			
Anthracene	0.119	0.000334	"	0.164	90804	72.5	30-130			
Pyrene	0.127	0.000643	"	0.164	90804	77.4	30-130			
Benzo(a)anthracene	0.116	0.000493	"	0.164	90804	70.7	30-130			
Indeno(1,2,3-cd)pyrene	0.147	0.000627	"	0.164	90804	89.6	30-130			
1-Methylnaphthalene	0.115	0.000364	"	0.164	90804	70.1	30-130			
Fluoranthene	0.123	0.000394	"	0.164	90804	75	30-130			

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Project: Heinze #1

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**Waypoint Analytical, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L605863 - 3550B**

MS (L 90804-MS-L605863)		Source: Y203309-09			Prepared: 03/19/2022 Analyzed: 03/22/2022					
Dibenz(a,h)anthracene	0.152	0.000614	mg/Kg	0.164	90804	92.6	30-130			
Chrysene	0.105	0.000624	"	0.164	90804	64	30-130			
Benzo(k)fluoranthene	0.101	0.000437	"	0.164	90804	61.5	30-130			
Benzo(b)fluoranthene	0.122	0.000585	"	0.164	90804	74.3	30-130			
Benzo(a)pyrene	0.112	0.000468	"	0.164	90804	68.2	30-130			
2-Methylnaphthalene	0.114	0.000645	"	0.164	90804	69.5	30-130			
Surrogate: 2-Fluorobiphenyl	76.5		"	0.328	215	76.5	33-115			
Surrogate: 4-Terphenyl-d14	86.5		"	0.328	233	86.5	33-122			
Surrogate: Nitrobenzene-d5	56.7		"	0.328	167	56.7	29-110			

LCS (LCS-L605863)		Prepared: 03/19/2022 Analyzed: 03/22/2022								
Acenaphthene	0.125	0.000304	mg/Kg	0.167		74.8	30-130			
Anthracene	0.136	0.000334	"	0.167		81.4	30-130			
Benzo(a)anthracene	0.131	0.000493	"	0.167		78.4	30-130			
Indeno(1,2,3-cd)pyrene	0.172	0.000627	"	0.167		103	30-130			
Pyrene	0.143	0.000643	"	0.167		85.6	30-130			
Fluoranthene	0.139	0.000394	"	0.167		83.2	30-130			
1-Methylnaphthalene	0.135	0.000364	"	0.167		80.8	30-130			
Dibenz(a,h)anthracene	0.187	0.000614	"	0.167		112	30-130			
Chrysene	0.117	0.000624	"	0.167		70	30-130			
Benzo(k)fluoranthene	0.118	0.000437	"	0.167		70.6	30-130			
2-Methylnaphthalene	0.132	0.000645	"	0.167		79	30-130			
Benzo(b)fluoranthene	0.156	0.000585	"	0.167		93.4	30-130			
Benzo(a)pyrene	0.127	0.000468	"	0.167		76	30-130			
Fluorene	0.136	0.000286	"	0.167		81.4	30-130			
Surrogate: 4-Terphenyl-d14	109		"	0.333		109	33-122			
Surrogate: 2-Fluorobiphenyl	96.6		"	0.333		96.6	33-115			

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**Waypoint Analytical, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch L605863 - 3550B</b>										
<b>LCS (LCS-L605863)</b>					Prepared: 03/19/2022 Analyzed: 03/22/2022					
Surrogate: Nitrobenzene-d5	68.7		mg/Kg	0.333		68.7	29-110			
<b>LRB (LRB-L605863)</b>					Prepared: 03/19/2022 Analyzed: 03/22/2022					
Fluorene	ND	0.00067	mg/Kg				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Surrogate: 2-Fluorobiphenyl	81.9		"	0.333		81.9	33-115			
Surrogate: 4-Terphenyl-d14	85.2		"	0.333		85.2	33-122			
Surrogate: Nitrobenzene-d5	61.2		"	0.333		61.2	29-110			

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Ben Baugh  
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Project: Heinze #1

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**Waypoint Analytical, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L605862 - 3550B**

MSD (L 90806-MSD-L605862)		Source: Y203309-11			Prepared: 03/19/2022 Analyzed: 03/22/2022					
Pyrene	0.12	0.0129	mg/Kg	0.165	0.0319	53.3	30-130	3.3	30	
2-Methylnaphthalene	0.985	0.0129	"	0.165	3.14	NR	30-130	28.9	30	*
1-Methylnaphthalene	0.681	0.00728	"	0.165	2.15	NR	30-130	27.5	30	*
Acenaphthene	0.148	0.00608	"	0.165	0.103	27.2	30-130	9.9	30	*
Anthracene	0.104	0.00668	"	0.165	0.0216	49.9	30-130	1.9	30	
Benzo(a)anthracene	0.123	0.00986	"	0.165	0.0159	64.9	30-130	1.6	30	
Benzo(a)pyrene	0.108	0.00936	"	0.165	0.00964	59.6	30-130	2.8	30	
Benzo(b)fluoranthene	0.097	0.0117	"	0.165	90806	58.7	30-130	1.4	30	
Benzo(k)fluoranthene	0.0975	0.00874	"	0.165	0.0195	47.2	30-130	2.5	30	
Chrysene	0.173	0.0125	"	0.165	0.121	31.5	30-130	18.9	30	
Dibenz(a,h)anthracene	0.0947	0.0123	"	0.165	90806	57.3	30-130	8.7	30	
Fluoranthene	0.111	0.00788	"	0.165	90806	67.2	30-130	0.8	30	
Fluorene	0.215	0.00572	"	0.165	0.348	NR	30-130	21.6	30	*
Indeno(1,2,3-cd)pyrene	0.0883	0.0125	"	0.165	90806	53.5	30-130	5.9	30	
Surrogate: 2-Fluorobiphenyl	65.1		"	0.33	220	65.1	33-115			
Surrogate: 4-Terphenyl-d14	72.1		"	0.33	224	72.1	33-122			
Surrogate: Nitrobenzene-d5	75.1		"	0.33	317	75.1	29-110			

MS (L 90806-MS-L605862)		Source: Y203309-11			Prepared: 03/19/2022 Analyzed: 03/22/2022					
Acenaphthene	0.134	0.00608	mg/Kg	0.166	0.103	18.6	30-130			*
Fluorene	0.173	0.00572	"	0.166	0.348	NR	30-130			*
1-Methylnaphthalene	0.516	0.00728	"	0.166	2.15	NR	30-130			*
2-Methylnaphthalene	0.736	0.0129	"	0.166	3.14	NR	30-130			*
Pyrene	0.116	0.0129	"	0.166	0.0319	50.6	30-130			
Indeno(1,2,3-cd)pyrene	0.0832	0.0125	"	0.166	90806	50.1	30-130			
Fluoranthene	0.112	0.00788	"	0.166	90806	67.4	30-130			
Dibenz(a,h)anthracene	0.0868	0.0123	"	0.166	90806	52.2	30-130			

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Project: Heinze #1

**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L605862 - 3550B**

MS (L 90806-MS-L605862)		Source: Y203309-11			Prepared: 03/19/2022 Analyzed: 03/22/2022					
Chrysene	0.143	0.0125	mg/Kg	0.166	0.121	13.2	30-130			*
Benzo(b)fluoranthene	0.0984	0.0117	"	0.166	90806	59.2	30-130			
Benzo(a)pyrene	0.105	0.00936	"	0.166	0.00964	57.4	30-130			
Benzo(a)anthracene	0.121	0.00986	"	0.166	0.0159	63.3	30-130			
Anthracene	0.106	0.00668	"	0.166	0.0216	50.8	30-130			
Benzo(k)fluoranthene	0.1	0.00874	"	0.166	0.0195	48.4	30-130			
Surrogate: 2-Fluorobiphenyl	61.7		"	0.332	220	61.7	33-115			
Surrogate: 4-Terphenyl-d14	77.7		"	0.332	224	77.7	33-122			
Surrogate: Nitrobenzene-d5	68.6		"	0.332	317	68.6	29-110			

LCS (LCS-L605862)		Prepared: 03/19/2022 Analyzed: 03/22/2022								
Pyrene	0.121	0.000643	mg/Kg	0.167		72.4	30-130			
Indeno(1,2,3-cd)pyrene	0.0986	0.000627	"	0.167		59	30-130			
Benzo(a)pyrene	0.117	0.000468	"	0.167		70	30-130			
Benzo(b)fluoranthene	0.109	0.000585	"	0.167		65.2	30-130			
Benzo(k)fluoranthene	0.116	0.000437	"	0.167		69.4	30-130			
Dibenz(a,h)anthracene	0.105	0.000614	"	0.167		62.8	30-130			
Benzo(a)anthracene	0.129	0.000493	"	0.167		77.2	30-130			
1-Methylnaphthalene	0.109	0.000364	"	0.167		65.2	30-130			
Chrysene	0.111	0.000624	"	0.167		66.4	30-130			
Anthracene	0.111	0.000334	"	0.167		66.4	30-130			
Fluoranthene	0.116	0.000394	"	0.167		69.4	30-130			
Acenaphthene	0.106	0.000304	"	0.167		63.4	30-130			
Fluorene	0.114	0.000286	"	0.167		68.2	30-130			
2-Methylnaphthalene	0.11	0.000645	"	0.167		65.8	30-130			
Surrogate: 4-Terphenyl-d14	80.7		"	0.333		80.7	33-122			
Surrogate: Nitrobenzene-d5	73.5		"	0.333		73.5	29-110			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch L605862 - 3550B</b>										
<b>LCS (LCS-L605862)</b>					Prepared: 03/19/2022 Analyzed: 03/22/2022					
Surrogate: 2-Fluorobiphenyl	68.4		mg/Kg	0.333		68.4	33-115			
<b>LRB (LRB-L605862)</b>					Prepared: 03/19/2022 Analyzed: 03/22/2022					
Acenaphthene	ND	0.00067	mg/Kg				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Surrogate: 4-Terphenyl-d14	75.9		"	0.333		75.9	33-122			
Surrogate: Nitrobenzene-d5	68.4		"	0.333		68.4	29-110			
Surrogate: 2-Fluorobiphenyl	64.2		"	0.333		64.2	33-115			

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Project: Heinze #1

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**Waypoint Analytical, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L605816 - 3550B**

MSD (L 92303-MSD-L605816)		Source: 92303			Prepared: 03/18/2022 Analyzed: 03/21/2022					
Indeno(1,2,3-cd)pyrene	0.0968	0.000627	mg/Kg	0.166	92303	58.3	30-130	11.8	30	
Benzo(b)fluoranthene	0.0839	0.000585	"	0.166	92303	50.5	30-130	8.1	30	
1-Methylnaphthalene	0.0828	0.000364	"	0.166	0.000408	49.6	30-130	12.1	30	
2-Methylnaphthalene	0.0829	0.000645	"	0.166	92303	49.9	30-130	11.9	30	
Acenaphthene	0.0837	0.000304	"	0.166	0.000332	50.2	30-130	12	30	
Anthracene	0.0896	0.000334	"	0.166	92303	53.9	30-130	6.3	30	
Pyrene	0.096	0.000643	"	0.166	0.000693	57.4	30-130	5	30	
Benzo(a)pyrene	0.0947	0.000468	"	0.166	92303	57	30-130	8.3	30	
Benzo(k)fluoranthene	0.0947	0.000437	"	0.166	92303	57	30-130	1.3	30	
Chrysene	0.0905	0.000624	"	0.166	0.00125	53.7	30-130	7.4	30	
Dibenz(a,h)anthracene	0.1	0.000614	"	0.166	0.000953	59.6	30-130	12.2	30	
Fluoranthene	0.0934	0.000394	"	0.166	92303	56.2	30-130	5.3	30	
Fluorene	0.0909	0.000286	"	0.166	0.00163	53.7	30-130	10.5	30	
Benzo(a)anthracene	0.104	0.000493	"	0.166	92303	62.6	30-130	7.4	30	
Surrogate: 2-Fluorobiphenyl	48.3		"	0.331	153	48.3	33-115			
Surrogate: 4-Terphenyl-d14	60.7		"	0.331	173	60.7	33-122			
Surrogate: Nitrobenzene-d5	53.4		"	0.331	161	53.4	29-110			

MS (L 92303-MS-L605816)		Source: 92303			Prepared: 03/18/2022 Analyzed: 03/21/2022					
Anthracene	0.0955	0.000334	mg/Kg	0.163	92303	58.5	30-130			
Benzo(k)fluoranthene	0.0934	0.000437	"	0.163	92303	57.3	30-130			
1-Methylnaphthalene	0.0935	0.000364	"	0.163	0.000408	57.1	30-130			
2-Methylnaphthalene	0.0934	0.000645	"	0.163	92303	57.3	30-130			
Acenaphthene	0.0944	0.000304	"	0.163	0.000332	57.7	30-130			
Benzo(a)pyrene	0.103	0.000468	"	0.163	92303	63.1	30-130			
Benzo(b)fluoranthene	0.091	0.000585	"	0.163	92303	55.8	30-130			
Pyrene	0.101	0.000643	"	0.163	0.000693	61.5	30-130			

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Project Number: [none]  
Project: Heinze #1

**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L605816 - 3550B**

MS (L 92303-MS-L605816)		Source: 92303			Prepared: 03/18/2022 Analyzed: 03/21/2022					
Chrysene	0.0975	0.000624	mg/Kg	0.163	0.00125	59	30-130			
Dibenz(a,h)anthracene	0.113	0.000614	"	0.163	0.000953	68.7	30-130			
Fluoranthene	0.0985	0.000394	"	0.163	92303	60.4	30-130			
Fluorene	0.101	0.000286	"	0.163	0.00163	60.9	30-130			
Indeno(1,2,3-cd)pyrene	0.109	0.000627	"	0.163	92303	66.8	30-130			
Benzo(a)anthracene	0.112	0.000493	"	0.163	92303	68.7	30-130			
Surrogate: 2-Fluorobiphenyl	54.7		"	0.327	153	54.7	33-115			
Surrogate: 4-Terphenyl-d14	64.2		"	0.327	173	64.2	33-122			
Surrogate: Nitrobenzene-d5	59.3		"	0.327	161	59.3	29-110			

LCS (LCS-L605816)		Prepared: 03/18/2022 Analyzed: 03/21/2022								
Benzo(a)pyrene	0.112	0.000468	mg/Kg	0.167		67	30-130			
Acenaphthene	0.101	0.000304	"	0.167		60.4	30-130			
Benzo(k)fluoranthene	0.111	0.000437	"	0.167		66.4	30-130			
Fluoranthene	0.109	0.000394	"	0.167		65.2	30-130			
Dibenz(a,h)anthracene	0.111	0.000614	"	0.167		66.4	30-130			
Chrysene	0.106	0.000624	"	0.167		63.4	30-130			
Benzo(b)fluoranthene	0.0997	0.000585	"	0.167		59.7	30-130			
Pyrene	0.111	0.000643	"	0.167		66.4	30-130			
Anthracene	0.105	0.000334	"	0.167		62.8	30-130			
2-Methylnaphthalene	0.0988	0.000645	"	0.167		59.1	30-130			
1-Methylnaphthalene	0.0995	0.000364	"	0.167		59.5	30-130			
Fluorene	0.105	0.000286	"	0.167		62.8	30-130			
Indeno(1,2,3-cd)pyrene	0.109	0.000627	"	0.167		65.2	30-130			
Benzo(a)anthracene	0.121	0.000493	"	0.167		72.4	30-130			
Surrogate: 4-Terphenyl-d14	69.3		"	0.333		69.3	33-122			
Surrogate: 2-Fluorobiphenyl	57.6		"	0.333		57.6	33-115			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Entrada Consulting Group  
330 Grand Ave. Unit C  
Grand Junction CO 81501

Ben Baugh  
Project Number: [none]  
Project: Heinze #1

**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch L605816 - 3550B</b>										
<b>LCS (LCS-L605816)</b>					Prepared: 03/18/2022 Analyzed: 03/21/2022					
Surrogate: Nitrobenzene-d5	63		mg/Kg	0.333		63	29-110			
<b>LRB (LRB-L605816)</b>					Prepared: 03/18/2022 Analyzed: 03/21/2022					
Fluorene	ND	0.00067	mg/Kg				-			
Pyrene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	63.3		"	0.333		63.3	29-110			
Surrogate: 2-Fluorobiphenyl	60		"	0.333		60	33-115			
Surrogate: 4-Terphenyl-d14	69.3		"	0.333		69.3	33-122			

Origins Laboratory, Inc.



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Entrada Consulting Group  
330 Grand Ave. Unit C  
Grand Junction CO 81501

Ben Baugh  
Project Number: [none]  
Project: Heinze #1

**Total Metals by 6020B - Quality Control**  
**Waypoint Analytical, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch L605010 - 3050B</b>										
<b>MSD (L 90836-MSD-L605010)</b>		<b>Source: 90836</b>			Prepared: 03/15/2022 Analyzed: 03/22/2022					
Selenium	4.42	0.103	mg/Kg	4.93	0.555	78	75-125	3.2	80	
Barium	281	0.042	"	4.93	284	NR	75-125	1.7	80	*
<b>MS (L 90836-MS-L605010)</b>		<b>Source: 90836</b>			Prepared: 03/15/2022 Analyzed: 03/22/2022					
Selenium	4.28	0.103	mg/Kg	4.84	0.555	77	75-125			
Barium	276	0.042	"	4.84	284	NR	75-125			*
<b>LCS (LCS-L605010)</b>		Prepared: 03/15/2022 Analyzed: 03/19/2022								
Selenium	5	0.103	mg/Kg	5		100	80-120			
Barium	4.9	0.042	"	5		98	80-120			
<b>LRB (LRB-L605010)</b>		Prepared: 03/15/2022 Analyzed: 03/22/2022								
Selenium	0.191	0.25	mg/Kg				-			J
Barium	ND	0.25	"				-			

Origins Laboratory, Inc.



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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: [none]

Project: Heinze #1

## Notes and Definitions

U Sample is Non-Detect.

S-DUP Duplicate analysis confirmed surrogate failure due to matrix effects.

R-05 The sample was diluted due to the presence of high levels of non-target analytes resulting in elevated reporting limits.

J Estimated Value. Analyte below reported quantitation limit.

\* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



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April 08, 2022

Entrada Consulting Group

Ben Baugh

330 Grand Ave. Unit C

Grand Junction CO 81501

Project Name - Heinze #1

Project Number - [none]

Attached are your analytical results for Heinze #1 received by Origins Laboratory, Inc. March 28, 2022. This project is associated with Origins project number Y203722-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.  
303.433.1322  
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: [none]

Project: Heinze #1

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EX12-5	Y203722-01	Soil	March 28, 2022 12:30	03/28/2022 16:35
EX13-5	Y203722-02	Soil	March 28, 2022 12:35	03/28/2022 16:35
EX14-5	Y203722-03	Soil	March 28, 2022 12:40	03/28/2022 16:35
EX15-5	Y203722-04	Soil	March 28, 2022 12:45	03/28/2022 16:35
EX16-5	Y203722-05	Soil	March 28, 2022 12:50	03/28/2022 16:35

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*





Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: [none]

Project: Heinze #1

Origins Laboratory

## Sample Receipt Checklist

F-012207-01-R1  
Effective Date: 01/09/12

Origins Work Order: Y203722

Client: Entrada  
Client Project ID: Heinze #1

Checklist Completed by: JB

Shipped Via: HD  
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 3-29-22

Airbill #: N/A

Matrix(s) Received: (Check all that apply): X Soil/Solid Water Other:

Cooler Number/Temperature: 1 24 °C 1 °C 1 °C (Describe) °C

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?		X		Same day
Is there ice present (document if blue ice is used)	X			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		X		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		X		
Were all samples received intact <sup>(1)</sup> ?	X			
Was adequate sample volume provided <sup>(1)</sup> ?	X			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		X		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	X			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	X			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	X			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	X			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			X	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity) (pH < 2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH > 10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			X	
Additional Comments (if any):				

<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager): JB

Date/Time Reviewed: 3/30/22

Origins Laboratory, Inc.

*J. Bynon*

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Entrada Consulting Group  
330 Grand Ave. Unit C  
Grand Junction CO 81501

Ben Baugh  
Project Number: [none]  
Project: Heinze #1

### EX12-5

3/28/2022 12:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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### Y203722-01 (Soil) Origins Laboratory, Inc.

#### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2C2902	ZZZ	03/29/2022	04/05/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 94.6 % 50-150 " " "

#### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2C3027	ZZZ	03/30/2022	04/03/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 102 % 70-130 " " "  
Surrogate: Toluene-d8 93.3 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 96.3 % 70-130 " " "

### Waypoint Analytical, Inc.

#### PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00067	mg/Kg	1	L608220		04/01/2022	04/01/2022	
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: [none]

Project: Heinze #1

**EX12-5**

**3/28/2022 12:30:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Y203722-01 (Soil)**

**Waypoint Analytical, Inc.**

**PAH by 8270D SIM**

2-Methylnaphthalene	ND	0.00067	mg/Kg	1	L608220		04/01/2022	04/01/2022	
Acenaphthene	ND	0.00067	"	"	"		"	"	
Anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)pyrene	ND	0.00067	"	"	"		"	"	
Benzo(b)fluoranthene	ND	0.00067	"	"	"		"	"	
Benzo(k)fluoranthene	ND	0.00067	"	"	"		"	"	
Chrysene	ND	0.00067	"	"	"		"	"	
Dibenz(a,h)anthracene	ND	0.00067	"	"	"		"	"	
Fluoranthene	ND	0.00067	"	"	"		"	"	
Fluorene	ND	0.00067	"	"	"		"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00067	"	"	"		"	"	
Naphthalene	ND	0.00067	"	"	"		"	"	
Pyrene	ND	0.00067	"	"	"		"	"	

Surrogate: 2-Fluorobiphenyl	45.4 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	59.5 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	44.5 %	29-110	"	"	"

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Entrada Consulting Group  
330 Grand Ave. Unit C  
Grand Junction CO 81501

Ben Baugh  
Project Number: [none]  
Project: Heinze #1

### EX13-5

3/28/2022 12:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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### Y203722-02 (Soil) Origins Laboratory, Inc.

#### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2C2902	ZZZ	03/29/2022	04/05/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 87.5 % 50-150 " " "

#### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2C3027	ZZZ	03/30/2022	04/03/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 102 % 70-130 " " "  
Surrogate: Toluene-d8 94.0 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 96.1 % 70-130 " " "

### Waypoint Analytical, Inc.

#### PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00067	mg/Kg	1	L608220		04/01/2022	04/01/2022	
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: [none]

Project: Heinze #1

**EX13-5**

**3/28/2022 12:35:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Y203722-02 (Soil)**

**Waypoint Analytical, Inc.**

**PAH by 8270D SIM**

2-Methylnaphthalene	ND	0.00067	mg/Kg	1	L608220		04/01/2022	04/01/2022	
Acenaphthene	ND	0.00067	"	"	"		"	"	
Anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)pyrene	ND	0.00067	"	"	"		"	"	
Benzo(b)fluoranthene	ND	0.00067	"	"	"		"	"	
Benzo(k)fluoranthene	ND	0.00067	"	"	"		"	"	
Chrysene	ND	0.00067	"	"	"		"	"	
Dibenz(a,h)anthracene	ND	0.00067	"	"	"		"	"	
Fluoranthene	ND	0.00067	"	"	"		"	"	
Fluorene	ND	0.00067	"	"	"		"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00067	"	"	"		"	"	
Naphthalene	ND	0.00067	"	"	"		"	"	
Pyrene	ND	0.00067	"	"	"		"	"	

Surrogate: 2-Fluorobiphenyl	33.5 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	50.8 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	33.8 %	29-110	"	"	"

Origins Laboratory, Inc.



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Entrada Consulting Group  
330 Grand Ave. Unit C  
Grand Junction CO 81501

Ben Baugh  
Project Number: [none]  
Project: Heinze #1

### EX14-5

3/28/2022 12:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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### Y203722-03 (Soil) Origins Laboratory, Inc.

#### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2C2902	ZZZ	03/29/2022	04/05/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 119 % 50-150 " " "

#### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2C3027	ZZZ	03/30/2022	04/03/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 103 % 70-130 " " "  
Surrogate: Toluene-d8 93.9 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 96.7 % 70-130 " " "

### Waypoint Analytical, Inc.

#### PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00067	mg/Kg	1	L608220		04/01/2022	04/01/2022	
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: [none]

Project: Heinze #1

EX14-5

3/28/2022 12:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y203722-03 (Soil)

Waypoint Analytical, Inc.

### PAH by 8270D SIM

2-Methylnaphthalene	ND	0.00067	mg/Kg	1	L608220		04/01/2022	04/01/2022	
Acenaphthene	ND	0.00067	"	"	"		"	"	
Anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)pyrene	ND	0.00067	"	"	"		"	"	
Benzo(b)fluoranthene	ND	0.00067	"	"	"		"	"	
Benzo(k)fluoranthene	ND	0.00067	"	"	"		"	"	
Chrysene	ND	0.00067	"	"	"		"	"	
Dibenz(a,h)anthracene	ND	0.00067	"	"	"		"	"	
Fluoranthene	ND	0.00067	"	"	"		"	"	
Fluorene	ND	0.00067	"	"	"		"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00067	"	"	"		"	"	
Naphthalene	ND	0.00067	"	"	"		"	"	
Pyrene	ND	0.00067	"	"	"		"	"	

Surrogate: 2-Fluorobiphenyl	50.2 %	33-115			"	"	"
Surrogate: 4-Terphenyl-d14	60.2 %	33-122			"	"	"
Surrogate: Nitrobenzene-d5	49.2 %	29-110			"	"	"

Origins Laboratory, Inc.



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Entrada Consulting Group  
330 Grand Ave. Unit C  
Grand Junction CO 81501

Ben Baugh  
Project Number: [none]  
Project: Heinze #1

### EX15-5

3/28/2022 12:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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### Y203722-04 (Soil) Origins Laboratory, Inc.

#### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2C2902	ZZZ	03/29/2022	04/05/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 120 % 50-150 " " "

#### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2C3027	ZZZ	03/30/2022	04/03/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 105 % 70-130 " " "  
Surrogate: Toluene-d8 92.9 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 96.9 % 70-130 " " "

### Waypoint Analytical, Inc.

#### PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00067	mg/Kg	1	L608220		04/01/2022	04/01/2022	
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Entrada Consulting Group  
330 Grand Ave. Unit C  
Grand Junction CO 81501

Ben Baugh  
Project Number: [none]  
Project: Heinze #1

EX15-5

3/28/2022 12:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y203722-04 (Soil)  
Waypoint Analytical, Inc.

PAH by 8270D SIM

2-Methylnaphthalene	ND	0.00067	mg/Kg	1	L608220		04/01/2022	04/01/2022	
Acenaphthene	ND	0.00067	"	"	"		"	"	
Anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)pyrene	ND	0.00067	"	"	"		"	"	
Benzo(b)fluoranthene	ND	0.00067	"	"	"		"	"	
Benzo(k)fluoranthene	ND	0.00067	"	"	"		"	"	
Chrysene	ND	0.00067	"	"	"		"	"	
Dibenz(a,h)anthracene	ND	0.00067	"	"	"		"	"	
Fluoranthene	ND	0.00067	"	"	"		"	"	
Fluorene	ND	0.00067	"	"	"		"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00067	"	"	"		"	"	
Naphthalene	ND	0.00067	"	"	"		"	"	
Pyrene	ND	0.00067	"	"	"		"	"	
Surrogate: 2-Fluorobiphenyl	50.9 %	33-115			"		"	"	
Surrogate: 4-Terphenyl-d14	59.8 %	33-122			"		"	"	
Surrogate: Nitrobenzene-d5	49.4 %	29-110			"		"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Entrada Consulting Group  
330 Grand Ave. Unit C  
Grand Junction CO 81501

Ben Baugh  
Project Number: [none]  
Project: Heinze #1

### EX16-5

3/28/2022 12:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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### Y203722-05 (Soil) Origins Laboratory, Inc.

#### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2C2902	ZZZ	03/29/2022	04/05/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 107 % 50-150 " " "

#### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2C3027	ZZZ	03/30/2022	04/03/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 104 % 70-130 " " "  
Surrogate: Toluene-d8 92.9 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 97.1 % 70-130 " " "

### Waypoint Analytical, Inc.

#### PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00067	mg/Kg	1	L608289		04/01/2022	04/01/2022	
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: [none]

Project: Heinze #1

EX16-5

3/28/2022 12:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y203722-05 (Soil)

Waypoint Analytical, Inc.

## PAH by 8270D SIM

2-Methylnaphthalene	ND	0.00067	mg/Kg	1	L608289		04/01/2022	04/01/2022	
Acenaphthene	ND	0.00067	"	"	"		"	"	
Anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)pyrene	ND	0.00067	"	"	"		"	"	
Benzo(b)fluoranthene	ND	0.00067	"	"	"		"	"	
Benzo(k)fluoranthene	ND	0.00067	"	"	"		"	"	
Chrysene	ND	0.00067	"	"	"		"	"	
Dibenz(a,h)anthracene	0.0027	0.00067	"	"	"		"	"	
Fluoranthene	ND	0.00067	"	"	"		"	"	
Fluorene	ND	0.00067	"	"	"		"	"	
Indeno(1,2,3-cd)pyrene	0.00248	0.00067	"	"	"		"	"	
Naphthalene	ND	0.00067	"	"	"		"	"	
Pyrene	ND	0.00067	"	"	"		"	"	

Surrogate: 2-Fluorobiphenyl

64.8 %

33-115

"

"

"

Surrogate: 4-Terphenyl-d14

70.3 %

33-122

"

"

"

Surrogate: Nitrobenzene-d5

51.5 %

29-110

"

"

"

Origins Laboratory, Inc.



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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: [none]

Project: Heinze #1

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B2C2902 - EPA 3550B</b>										
<b>Blank (B2C2902-BLK1)</b>					Prepared: 03/29/2022 Analyzed: 04/05/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	23		"	24.9		93.1	50-150			

Origins Laboratory, Inc.



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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: [none]

Project: Heinze #1

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B2C2902 - EPA 3550B****LCS (B2C2902-BS1)**

Prepared: 03/29/2022 Analyzed: 04/05/2022

Diesel (C10-C28)	931	50.0	mg/kg	1000		93.1	70-130			
Residual Range Organics (C28-C40)	1110	200	"	1000		111	70-130			
Surrogate: o-Terphenyl	49		"	49.8		98.3	50-150			

Origins Laboratory, Inc.



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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: [none]

Project: Heinze #1

## Extractable Petroleum Hydrocarbons by 8015D - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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### Batch B2C2902 - EPA 3550B

Matrix Spike (B2C2902-MS1)		Source: Y203715-01			Prepared: 03/29/2022 Analyzed: 04/05/2022					
Diesel (C10-C28)	884	50.0	mg/kg	1000	ND	88.4	70-130			
Residual Range Organics (C28-C40)	1080	200	"	1000	ND	108	70-130			
Surrogate: o-Terphenyl	57		"	49.8		114	50-150			

Origins Laboratory, Inc.



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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: [none]

Project: Heinze #1

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B2C2902 - EPA 3550B**

Matrix Spike Dup (B2C2902-MSD1)		Source: Y203715-01			Prepared: 03/29/2022 Analyzed: 04/05/2022					
Diesel (C10-C28)	852	50.0	mg/kg	1000	ND	85.2	70-130	3.73	35	
Residual Range Organics (C28-C40)	1060	200	"	1000	ND	106	70-130	1.47	35	
Surrogate: o-Terphenyl	55		"	49.8		111	50-150			

Origins Laboratory, Inc.



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330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: [none]

Project: Heinze #1

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B2C3027 - EPA 5030 (soil)</b>										
<b>Blank (B2C3027-BLK1)</b>					Prepared: 03/30/2022 Analyzed: 04/03/2022					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.0100	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.0	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.3	70-130			

Origins Laboratory, Inc.



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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: [none]

Project: Heinze #1

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B2C3027 - EPA 5030 (soil)**

**LCS (B2C3027-BS1)**

Prepared: 03/30/2022 Analyzed: 04/03/2022

1,2,4-Trimethylbenzene	0.110	0.00200	mg/kg	0.100		110	70-130			
1,3,5-Trimethylbenzene	0.110	0.00200	"	0.100		110	70-130			
Benzene	0.106	0.00200	"	0.100		106	70-130			
Ethylbenzene	0.103	0.00200	"	0.100		103	70-130			
Naphthalene	0.102	0.0100	"	0.100		102	70-130			
Toluene	0.101	0.00200	"	0.100		101	70-130			
o-Xylene	0.102	0.00200	"	0.100		102	70-130			
m,p-Xylene	0.204	0.00400	"	0.200		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.3	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.5	70-130			

Origins Laboratory, Inc.



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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: [none]

Project: Heinze #1

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B2C3027 - EPA 5030 (soil)**

Matrix Spike (B2C3027-MS1)		Source: Y203722-01			Prepared: 03/30/2022 Analyzed: 04/03/2022					
1,2,4-Trimethylbenzene	0.0682	0.00200	mg/kg	0.100	ND	68.2	70-130			QM-07
1,3,5-Trimethylbenzene	0.0681	0.00200	"	0.100	ND	68.1	70-130			QM-07
Benzene	0.0683	0.00200	"	0.100	ND	68.3	70-130			QM-07
Ethylbenzene	0.0645	0.00200	"	0.100	ND	64.5	70-130			QM-07
Naphthalene	0.0675	0.0100	"	0.100	0.00230	65.2	70-130			QM-07
Toluene	0.0650	0.00200	"	0.100	ND	65.0	70-130			QM-07
o-Xylene	0.0646	0.00200	"	0.100	ND	64.6	70-130			QM-07
m,p-Xylene	0.125	0.00400	"	0.200	ND	62.4	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.8	70-130			

Origins Laboratory, Inc.



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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: [none]

Project: Heinze #1

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B2C3027 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (B2C3027-MSD1)</b>		<b>Source: Y203722-01</b>			Prepared: 03/30/2022 Analyzed: 04/03/2022					
1,2,4-Trimethylbenzene	0.101	0.00200	mg/kg	0.100	ND	101	70-130	39.1	20	QM-07
1,3,5-Trimethylbenzene	0.101	0.00200	"	0.100	ND	101	70-130	38.9	20	QM-07
Benzene	0.0963	0.00200	"	0.100	ND	96.3	70-130	34.0	20	QM-07
Ethylbenzene	0.0941	0.00200	"	0.100	ND	94.1	70-130	37.3	20	QM-07
Naphthalene	0.0988	0.0100	"	0.100	0.00230	96.5	70-130	37.6	20	QM-07
Toluene	0.0924	0.00200	"	0.100	ND	92.4	70-130	34.8	20	QM-07
o-Xylene	0.0943	0.00200	"	0.100	ND	94.3	70-130	37.4	20	QM-07
m,p-Xylene	0.185	0.00400	"	0.200	ND	92.6	70-130	38.9	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		100	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.8	70-130			

Origins Laboratory, Inc.



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Entrada Consulting Group  
330 Grand Ave. Unit C  
Grand Junction CO 81501

Ben Baugh  
Project Number: [none]  
Project: Heinze #1

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L608289 - 3550B**

MSD (L 97269-MSD-L608289)		Source: Y203722-05			Prepared: 04/01/2022 Analyzed: 04/01/2022					
Acenaphthene	0.0967	0.000304	mg/Kg	0.166	<0.000304	58.2	30-130	6.7	30	
Naphthalene	0.0974	0.000484	"	0.166	<0.000484	58.6	30-130	6.5	30	
Indeno(1,2,3-cd)pyrene	0.144	0.000627	"	0.166	0.00248	85.2	30-130	1.3	30	
Fluorene	0.108	0.000286	"	0.166	<0.000286	65	30-130	5.7	30	
Fluoranthene	0.116	0.000394	"	0.166	<0.000394	69.8	30-130	5.3	30	
Dibenz(a,h)anthracene	0.15	0.000614	"	0.166	0.0027	88.7	30-130	0	30	
Chrysene	0.105	0.000624	"	0.166	<0.000624	63.2	30-130	8.7	30	
Benzo(k)fluoranthene	0.0918	0.000437	"	0.166	<0.000437	55.3	30-130	1.7	30	
Benzo(a)pyrene	0.11	0.000468	"	0.166	<0.000468	66.2	30-130	4.6	30	
Anthracene	0.113	0.000334	"	0.166	<0.000334	68	30-130	9.2	30	
2-Methylnaphthalene	0.102	0.000645	"	0.166	<0.000645	61.4	30-130	5.5	30	
1-Methylnaphthalene	0.103	0.000364	"	0.166	<0.000364	62	30-130	5.6	30	
Pyrene	0.116	0.000643	"	0.166	<0.000643	69.8	30-130	5.3	30	
Benzo(b)fluoranthene	0.123	0.000585	"	0.166	<0.000585	74	30-130	8.4	30	
Benzo(a)anthracene	0.108	0.000493	"	0.166	<0.000493	65	30-130	1.8	30	
Surrogate: Nitrobenzene-d5	51.2		"	0.332	170	51.2	29-110			
Surrogate: 4-Terphenyl-d14	75		"	0.332	232	75	33-122			
Surrogate: 2-Fluorobiphenyl	65.6		"	0.332	214	65.6	33-115			

MS (L 97269-MS-L608289)		Source: Y203722-05			Prepared: 04/01/2022 Analyzed: 04/01/2022					
Acenaphthene	0.0904	0.000304	mg/Kg	0.167	<0.000304	54.1	30-130			
Pyrene	0.11	0.000643	"	0.167	<0.000643	65.8	30-130			

Origins Laboratory, Inc.



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Entrada Consulting Group  
330 Grand Ave. Unit C  
Grand Junction CO 81501

Ben Baugh  
Project Number: [none]  
Project: Heinze #1

**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L608289 - 3550B**

<b>MS (L 97269-MS-L608289)</b>		<b>Source: Y203722-05</b>			<b>Prepared: 04/01/2022 Analyzed: 04/01/2022</b>					
1-Methylnaphthalene	0.0973	0.000364	mg/Kg	0.167	<0.000364	58.2	30-130			
Anthracene	0.103	0.000334	"	0.167	<0.000334	61.6	30-130			
Benzo(a)anthracene	0.106	0.000493	"	0.167	<0.000493	63.4	30-130			
Indeno(1,2,3-cd)pyrene	0.142	0.000627	"	0.167	0.00248	83.5	30-130			
Benzo(b)fluoranthene	0.113	0.000585	"	0.167	<0.000585	67.6	30-130			
Benzo(k)fluoranthene	0.0934	0.000437	"	0.167	<0.000437	55.9	30-130			
Chrysene	0.0962	0.000624	"	0.167	<0.000624	57.6	30-130			
Dibenz(a,h)anthracene	0.15	0.000614	"	0.167	0.0027	88.2	30-130			
Fluoranthene	0.11	0.000394	"	0.167	<0.000394	65.8	30-130			
Fluorene	0.102	0.000286	"	0.167	<0.000286	61	30-130			
Benzo(a)pyrene	0.105	0.000468	"	0.167	<0.000468	62.8	30-130			
2-Methylnaphthalene	0.0965	0.000645	"	0.167	<0.000645	57.7	30-130			
Naphthalene	0.0912	0.000484	"	0.167	<0.000484	54.6	30-130			
Surrogate: Nitrobenzene-d5	47.4		"	0.333	170	47.4	29-110			
Surrogate: 2-Fluorobiphenyl	60		"	0.333	214	60	33-115			
Surrogate: 4-Terphenyl-d14	67.8		"	0.333	232	67.8	33-122			

**LCS (LCS-L608289)**

**Prepared: 04/01/2022 Analyzed: 04/01/2022**

Chrysene	0.0946	0.000624	mg/Kg	0.167		56.6	30-130
Dibenz(a,h)anthracene	0.156	0.000614	"	0.167		93.4	30-130
Fluoranthene	0.105	0.000394	"	0.167		62.8	30-130
Fluorene	0.0987	0.000286	"	0.167		59.1	30-130
Indeno(1,2,3-cd)pyrene	0.149	0.000627	"	0.167		89.2	30-130
Pyrene	0.104	0.000643	"	0.167		62.2	30-130
Benzo(k)fluoranthene	0.0861	0.000437	"	0.167		51.5	30-130
Naphthalene	0.0885	0.000484	"	0.167		52.9	30-130
Benzo(b)fluoranthene	0.116	0.000585	"	0.167		69.4	30-130

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Entrada Consulting Group  
330 Grand Ave. Unit C  
Grand Junction CO 81501

Ben Baugh  
Project Number: [none]  
Project: Heinze #1

**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L608289 - 3550B**

**LCS (LCS-L608289)**

Prepared: 04/01/2022 Analyzed: 04/01/2022

Benzo(a)pyrene	0.0995	0.000468	mg/Kg	0.167		59.5	30-130			
Benzo(a)anthracene	0.0954	0.000493	"	0.167		57.1	30-130			
Anthracene	0.1	0.000334	"	0.167		59.8	30-130			
Acenaphthene	0.0879	0.000304	"	0.167		52.6	30-130			
2-Methylnaphthalene	0.0919	0.000645	"	0.167		55	30-130			
1-Methylnaphthalene	0.0941	0.000364	"	0.167		56.3	30-130			
Surrogate: 4-Terphenyl-d14	69.9		"	0.333		69.9	33-122			
Surrogate: Nitrobenzene-d5	49.5		"	0.333		49.5	29-110			
Surrogate: 2-Fluorobiphenyl	63.9		"	0.333		63.9	33-115			

**LRB (LRB-L608289)**

Prepared: 04/01/2022 Analyzed: 04/01/2022

Anthracene	ND	0.00067	mg/Kg				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	47.7		"	0.333		47.7	29-110			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: [none]

Project: Heinze #1

**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L608289 - 3550B

LRB (LRB-L608289)

Prepared: 04/01/2022 Analyzed: 04/01/2022

Surrogate: 4-Terphenyl-d14	67.2		mg/Kg	0.333	67.2		33-122			
Surrogate: 2-Fluorobiphenyl	63		"	0.333	63		33-115			

Origins Laboratory, Inc.



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Entrada Consulting Group  
330 Grand Ave. Unit C  
Grand Junction CO 81501

Ben Baugh  
Project Number: [none]  
Project: Heinze #1

**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L608220 - 3550B**

MSD (L 95995-MSD-L608220)		Source: 95995			Prepared: 04/01/2022 Analyzed: 04/01/2022					
1-Methylnaphthalene	0.0819	0.00182	mg/Kg	0.167	<0.00182	49	30-130	24.2	30	
Benzo(a)pyrene	0.116	0.00234	"	0.167	<0.00234	69.4	30-130	2.6	30	
Anthracene	0.099	0.00167	"	0.167	<0.00167	59.2	30-130	25.7	30	
Acenaphthene	0.0897	0.00152	"	0.167	<0.00152	53.7	30-130	27	30	
Benzo(b)fluoranthene	0.0722	0.00293	"	0.167	0.00396	40.8	30-130	3	30	
2-Methylnaphthalene	0.0809	0.00323	"	0.167	<0.00323	48.4	30-130	25	30	
Benzo(a)anthracene	0.104	0.00247	"	0.167	<0.00247	62.2	30-130	0.9	30	
Benzo(k)fluoranthene	0.0899	0.00219	"	0.167	<0.00219	53.8	30-130	19	30	
Naphthalene	0.0749	0.00242	"	0.167	<0.00242	44.8	30-130	25	30	
Indeno(1,2,3-cd)pyrene	0.0946	0.00314	"	0.167	<0.00314	56.6	30-130	3.1	30	
Fluorene	0.098	0.00143	"	0.167	<0.00143	58.6	30-130	27.1	30	
Fluoranthene	0.095	0.00197	"	0.167	<0.00197	56.8	30-130	0.9	30	
Dibenz(a,h)anthracene	0.111	0.00307	"	0.167	<0.00307	66.4	30-130	17.4	30	
Chrysene	0.11	0.00312	"	0.167	0.0129	58.1	30-130	7.5	30	
Pyrene	0.0917	0.00322	"	0.167	0.00368	52.7	30-130	1.6	30	
Surrogate: 4-Terphenyl-d14	69.6		"	0.333	208	69.6	33-122			
Surrogate: 2-Fluorobiphenyl	64.2		"	0.333	222	64.2	33-115			
Surrogate: Nitrobenzene-d5	53.4		"	0.333	194	53.4	29-110			

MS (L 95995-MS-L608220)		Source: 95995			Prepared: 04/01/2022 Analyzed: 04/01/2022					
Dibenz(a,h)anthracene	0.0932	0.00307	mg/Kg	0.163	<0.00307	57.1	30-130			
Benzo(b)fluoranthene	0.0744	0.00293	"	0.163	0.00396	43.2	30-130			
Naphthalene	0.0582	0.00242	"	0.163	<0.00242	35.7	30-130			
Indeno(1,2,3-cd)pyrene	0.0917	0.00314	"	0.163	<0.00314	56.2	30-130			
Pyrene	0.0902	0.00322	"	0.163	0.00368	53	30-130			
Fluoranthene	0.0941	0.00197	"	0.163	<0.00197	57.7	30-130			
Chrysene	0.102	0.00312	"	0.163	0.0129	54.6	30-130			

Origins Laboratory, Inc.



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Entrada Consulting Group  
330 Grand Ave. Unit C  
Grand Junction CO 81501

Ben Baugh  
Project Number: [none]  
Project: Heinze #1

**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L608220 - 3550B**

MS (L 95995-MS-L608220)		Source: 95995			Prepared: 04/01/2022 Analyzed: 04/01/2022					
Benzo(k)fluoranthene	0.0743	0.00219	mg/Kg	0.163	<0.00219	45.5	30-130			
1-Methylnaphthalene	0.0642	0.00182	"	0.163	<0.00182	39.3	30-130			
Benzo(a)anthracene	0.103	0.00247	"	0.163	<0.00247	63.1	30-130			
Anthracene	0.0764	0.00167	"	0.163	<0.00167	46.8	30-130			
Acenaphthene	0.0683	0.00152	"	0.163	<0.00152	41.9	30-130			
2-Methylnaphthalene	0.0629	0.00323	"	0.163	<0.00323	38.5	30-130			
Fluorene	0.0746	0.00143	"	0.163	<0.00143	45.7	30-130			
Benzo(a)pyrene	0.113	0.00234	"	0.163	<0.00234	69.3	30-130			
Surrogate: Nitrobenzene-d5	45.2		"	0.327	194	45.2	29-110			
Surrogate: 4-Terphenyl-d14	51.3		"	0.327	208	51.3	33-122			
Surrogate: 2-Fluorobiphenyl	52.5		"	0.327	222	52.5	33-115			

LCS (LCS-L608220)		Prepared: 04/01/2022 Analyzed: 04/01/2022								
Benzo(k)fluoranthene	0.0636	0.000437	mg/Kg	0.167		38	30-130			
Chrysene	0.0855	0.000624	"	0.167		51.1	30-130			
Dibenz(a,h)anthracene	0.0881	0.000614	"	0.167		52.7	30-130			
Fluoranthene	0.0844	0.000394	"	0.167		50.5	30-130			
Benzo(b)fluoranthene	0.0654	0.000585	"	0.167		39.1	30-130			
Indeno(1,2,3-cd)pyrene	0.0814	0.000627	"	0.167		48.7	30-130			
Naphthalene	0.0734	0.000484	"	0.167		43.9	30-130			
Fluorene	0.0839	0.000286	"	0.167		50.2	30-130			
Benzo(a)pyrene	0.0961	0.000468	"	0.167		57.5	30-130			
Benzo(a)anthracene	0.0928	0.000493	"	0.167		55.5	30-130			
Anthracene	0.0854	0.000334	"	0.167		51.1	30-130			
Pyrene	0.0842	0.000643	"	0.167		50.4	30-130			
2-Methylnaphthalene	0.0748	0.000645	"	0.167		44.7	30-130			
1-Methylnaphthalene	0.077	0.000364	"	0.167		46.1	30-130			

Origins Laboratory, Inc.



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Entrada Consulting Group  
330 Grand Ave. Unit C  
Grand Junction CO 81501

Ben Baugh  
Project Number: [none]  
Project: Heinze #1

**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch L608220 - 3550B</b>										
<b>LCS (LCS-L608220)</b>					Prepared: 04/01/2022 Analyzed: 04/01/2022					
Acenaphthene	0.0777	0.000304	mg/Kg	0.167		46.5	30-130			
Surrogate: 4-Terphenyl-d14	61.5		"	0.333		61.5	33-122			
Surrogate: Nitrobenzene-d5	48.6		"	0.333		48.6	29-110			
Surrogate: 2-Fluorobiphenyl	54.6		"	0.333		54.6	33-115			
<b>LRB (LRB-L608220)</b>					Prepared: 04/01/2022 Analyzed: 04/01/2022					
Chrysene	ND	0.00067	mg/Kg				-			
1-Methylnaphthalene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Surrogate: 4-Terphenyl-d14	52.2		"	0.333		52.2	33-122			
Surrogate: 2-Fluorobiphenyl	44.4		"	0.333		44.4	33-115			
Surrogate: Nitrobenzene-d5	42.6		"	0.333		42.6	29-110			

Origins Laboratory, Inc.



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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: [none]

Project: Heinze #1

### Notes and Definitions

U Sample is Non-Detect.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

**ATTACHMENT D  
DISPOSAL MANIFESTS**



# INVOICE

**Customer ID:****11-91328-63008**

Customer Name:

GREAT WESTERN OIL AND GAS LLC

Service Period:

03/01/22-03/31/22

Invoice Date:

04/01/2022

Invoice Number:

0029709-0308-0

**How To Contact Us**

Visit [wm.com](http://wm.com) to sign up for paperless billing or pay your invoices.

Visit [wmsolutions.com](http://wmsolutions.com) to manage your waste streams and access additional disposal documentation.



Customer Service:  
**(720) 977-2102**

**Your Payment Is Due****05/15/2022**

If full payment of the invoiced amount is not received within your contractual terms, you may be charged a monthly late charge of 2.5% of the unpaid amount, with a minimum monthly charge of \$5, or such late charge allowed under applicable law, regulation or contract.

**Your Total Due****\$9,098.72****Previous Balance**

1,239.86

+

**Payments**

(1,239.86)

+

**Adjustments**

0.00

+

**Current Invoice Charges**

9,098.72

=

**Total Account Balance Due****9,098.72****IMPORTANT MESSAGES**

Effective January 1, 2022, our environmental and waste water management charges will be increased or added to your account as specified on your invoice. If you have a disposal agreement, this change may require your consent. For more information about these charges, call our Technical Service Center at 1-800-963-4776.



----- Please detach and send the lower portion with payment ----- (no cash or staples) -----



WASTE MANAGEMENT DISPOSAL  
SERVICES OF COLORADO, INC.  
PO BOX 43350  
PHOENIX, AZ 85080  
(720) 977-2102  
(970) 686-2800 TICKET COPIES

Invoice Date	Invoice Number	Customer ID (Include with your payment)
04/01/2022	0029709-0308-0	11-91328-63008
Payment Terms	Total Due	Amount
Total Due by 05/15/2022	\$9,098.72	

0308000119132863008000297090000090987200000909872 1

10306L19

GREAT WESTERN OIL AND GAS LLC  
7780 E 96TH AVE  
KRIS MARTINEZ  
HENDERSON CO 80640-8534

Remit To: WM CORPORATE SERVICES, INC.  
AS PAYMENT AGENT  
PO BOX 7400  
PASADENA, CA 91109-7400

**THINK GREEN.®**

308-0010392-0308-6

## DETAILS OF SERVICE

## Details for Service Location:

Great Western Oil And Gas Llc, 1700 Broadway 650, Denver CO  
80290-1723

Customer ID: 11-91328-63008

Description	Date	Ticket	Quantity	Unit of Measure	Rate	Amount
Vehicle#: 12	03/29/22	2128609				0.00
Cont. Soil - Petroleum			29.06	TON	26.57	772.12
Haz-Substance Response Fee Cont. Soil						7.85
Fuel Surcharge - Landfill			1.00	PCT	12.72	98.21
Regulatory Cost Recovery			1.00	PCT	3.60	27.80
Standard Environmental Fee - Percent (Landfill)			1.00	PCT	20.00	154.42
Waste Water Management - Percent (Landfill)			1.00	PCT	11.10	85.71
Profile # 113428CO						0.00

## 5 EASY WAYS TO PAY

**Automatic Payment**

Set up recurring payments with us at [wm.com/myaccount](http://wm.com/myaccount).

**Pay Through Your Financial Institution**

Make a payment from your financial institution using your Customer ID.

**One-Time Payment**

At your desk or on the go, use [wm.com](http://wm.com) or our WM mobile app for a quick and easy payment.

**Pay by Phone**

Payable 24/7 using our automated system at 866-964-2729.

**Mail it**

Write it, stuff it, stamp it, mail it. Envelope provided.

## HOW TO READ YOUR INVOICE

How To Contact Us

Visit **wm.com**

To set up your online profile, sign up for paperless billing, manage your account, view holidays schedules, pay your bill or schedule a pickup.

Customer Service  
**(866) 909-4458**

Your Payment Is Due

August 19, 2017

If full payment of the invoiced amount is not received by the invoice due date, you will be charged a monthly late charge of 2.5% of the unpaid amount, with a minimum charge of \$5.00, or such lesser late charge allowed under applicable law, regulation or contract.

Your Total Due

\$124.73

If payment is received after 08/19/2017 - **\$126.60**

See reverse for important messages.

Previous Balance

97.12

+

Payments

(97.12)

+

Adjustments

0.00

+

Current Charges

124.73

=

Total Due

**124.73**

Details for Service Location:  
311 Jackson Street, Stockton CA 95205

Customer ID: 2-82290-00885

PO Numbers: 45693

Description	Date	Ticket	Quantity	Amount
96 1 Toter	07/01/17		1.00	90.00
96 1 Toter Recycle	07/01/17		1.00	0.00
Extr Pickup Service	07/01/17	5934	1.00	15.00
Fuel/Environmental Charge				19.73
<b>Total Current Charges</b>				<b>124.73</b>

1

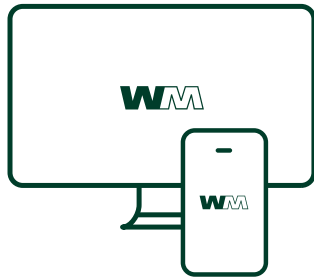
States the date payment is due to Waste Management. Anything beyond that date may incur additional charges. Your **Total Due** is the total amount of current charges and any previous unpaid balances combined.

2

Previous balance is the total due from your previous invoice. We subtract any **Payments Received/Adjustments** and add your **Current Charges** from this billing cycle to get a **Total Due** on this invoice. If you have not paid all or a portion of your previous balance, please pay the entire **Total Due** to avoid a late charge or service interruption.

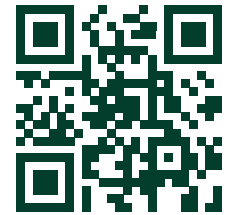
3

Service location details the total current charges of this invoice.



## Get More with My WM

Create a My WM profile to enroll in AutoPay & Paperless Billing, manage your services, view your pickup schedule and see your pickup ETA, all in one place.



Scan the QR code to get started today!

If your service is suspended for non-payment, you may be charged a Resume charge to restart your service. For each returned check, a charge will be assessed on your next invoice equal to the maximum amount permitted by applicable state law.

## CHECK HERE TO CHANGE CONTACT INFO

List your new billing information below. For a change of service address, please contact Waste Management.

Address 1	
Address 2	
City	
State	
Zip	
Email	
Date Valid	

## CHECK HERE TO SIGN UP FOR AUTOMATIC PAYMENT ENROLLMENT

If I enroll in Automatic Payment services, I authorize Waste Management to pay my invoice by electronically deducting money from my bank account. I can cancel authorization by notifying Waste Management at [wm.com](http://wm.com) or by calling the customer service number listed on my invoice. Your enrollment could take 1-2 billing cycles for Automatic Payments to take effect. Continue to submit payment until page one of your invoice reflects that your payment will be deducted.

Email Address	
Date	
Bank Account Holder Signature	

**NOTICE:** By sending your check, you are authorizing the Company to use information on your check to make a one-time electronic debit to your account at the financial institution indicated on your check. The electronic debit will be for the amount of your check and may occur as soon as the same day we receive your check.

In order for us to service your account or to collect any amounts you may owe (for non-marketing or solicitation purposes), we may contact you by telephone at any telephone number that you provided in connection with your account, including wireless telephone numbers, which could result in charges to you. Methods of contact may include text messages and using pre-recorded/artificial voice messages and/or use of an automatic dialing device, as applicable. We may also contact you by email or other methods as provided in our contract.

Please send all bankruptcy correspondence to [RMCbankruptcy@wm.com](mailto:RMCbankruptcy@wm.com) or PO Box 43290 Phoenix, AZ 85080. Using the email option will expedite your request. (this language is in compliance with 11 USC 342(c)(2) of the Bankruptcy Code)



**Customer ID:**
**11-91328-63008**

Customer Name:

GREAT WESTERN OIL AND GAS LLC

Service Period:

03/01/22-03/31/22

Invoice Date:

04/01/2022

Invoice Number:

0029709-0308-0

**DETAILS OF SERVICE - continued**

Details for Service Location:				Customer ID: 11-91328-63008		
Great Western Oil And Gas Llc, 1700 Broadway 650, Denver CO 80290-1723						
Description	Date	Ticket	Quantity	Unit of Measure	Rate	Amount
Generator GREAT WESTERN OPERATING CO VARIOUS Manifest#: 8933462	03/29/22	2128612				0.00
Ticket Total						0.00
						1,146.11
Vehicle#: 44						0.00
Cont. Soil - Petroleum						781.16
Haz-Substance Response Fee Cont. Soil						7.94
Fuel Surcharge - Landfill						99.36
Regulatory Cost Recovery						28.12
Standard Environmental Fee - Percent (Landfill)						156.23
Waste Water Management - Percent (Landfill)						86.71
Profile # 113428CO						0.00
Generator GREAT WESTERN OPERATING CO VARIOUS Manifest#: 8933464						0.00
Ticket Total						1,159.52
Vehicle#: 4						0.00
Cont. Soil - Petroleum						754.59
Haz-Substance Response Fee Cont. Soil	7.67					
Fuel Surcharge - Landfill	95.98					
Regulatory Cost Recovery	27.17					
Standard Environmental Fee - Percent (Landfill)	150.92					
Waste Water Management - Percent (Landfill)	83.76					
Profile # 113428CO	0.00					
Generator GREAT WESTERN OPERATING CO VARIOUS Manifest#: 8933461	0.00					
Ticket Total	1,120.09					
Vehicle#: 44	03/29/22	2128720				0.00
Cont. Soil - Petroleum						625.46
Haz-Substance Response Fee Cont. Soil						6.36
Fuel Surcharge - Landfill						79.56
Regulatory Cost Recovery						22.52
Standard Environmental Fee - Percent (Landfill)						125.09
Waste Water Management - Percent (Landfill)						69.43
Profile # 113428CO						0.00
Generator GREAT WESTERN OPERATING CO VARIOUS Manifest#: 8933548						0.00
Ticket Total						928.42
Vehicle#: 4						0.00
Cont. Soil - Petroleum						613.50
Haz-Substance Response Fee Cont. Soil						6.23
Fuel Surcharge - Landfill						78.04
Regulatory Cost Recovery						22.09
Standard Environmental Fee - Percent (Landfill)	122.70					
Waste Water Management - Percent (Landfill)	68.10					
Profile # 113428CO	0.00					
Generator GREAT WESTERN OPERATING CO VARIOUS Manifest#: 8933549	0.00					
Ticket Total	910.66					
Vehicle#: 44	03/29/22	2128806				0.00
Cont. Soil - Petroleum						670.36
Haz-Substance Response Fee Cont. Soil						6.81
Fuel Surcharge - Landfill						85.27
Regulatory Cost Recovery						24.13
Standard Environmental Fee - Percent (Landfill)						134.07

**Customer ID: 11-91328-63008**

Description	Date	Ticket	Quantity	Unit of Measure	Rate	Amount
Waste Water Management - Percent (Landfill)	03/29/22	2128809	1.00	PCT	11.10	74.41
Profile # 113428CO					0.00	
Generator GREAT WESTERN OPERATING CO VARIOUS					0.00	
Manifest#: 8933551					0.00	
<b>Ticket Total</b>					<b>995.05</b>	
Vehicle#: 4					0.00	
Cont. Soil - Petroleum			24.21	TON	26.57	643.26
Haz-Substance Response Fee Cont. Soil					6.54	
Fuel Surcharge - Landfill			1.00	PCT	12.72	81.82
Regulatory Cost Recovery			1.00	PCT	3.60	23.16
Standard Environmental Fee - Percent (Landfill)	1.00	PCT	20.00	128.65		
Waste Water Management - Percent (Landfill)	1.00	PCT	11.10	71.40		
Profile # 113428CO	03/29/22	2128871				0.00
Generator GREAT WESTERN OPERATING CO VARIOUS					0.00	
Manifest#: 8933465					0.00	
<b>Ticket Total</b>					<b>954.83</b>	
Vehicle#: 44					0.00	
Cont. Soil - Petroleum			26.30	TON	26.57	698.79
Haz-Substance Response Fee Cont. Soil					7.10	
Fuel Surcharge - Landfill			1.00	PCT	12.72	88.89
Regulatory Cost Recovery			1.00	PCT	3.60	25.16
Standard Environmental Fee - Percent (Landfill)			1.00	PCT	20.00	139.76
Waste Water Management - Percent (Landfill)	1.00	PCT	11.10	77.57		
Profile # 113428CO	03/30/22	2128946				0.00
Generator GREAT WESTERN OPERATING CO VARIOUS					0.00	
Manifest#: 8933552					0.00	
<b>Ticket Total</b>					<b>1,037.27</b>	
Vehicle#: 12					0.00	
Cont. Soil - Petroleum			21.47	TON	26.57	570.46
Haz-Substance Response Fee Cont. Soil					5.80	
Fuel Surcharge - Landfill			1.00	PCT	12.72	72.56
Regulatory Cost Recovery			1.00	PCT	3.60	20.54
Standard Environmental Fee - Percent (Landfill)			1.00	PCT	20.00	114.09
Waste Water Management - Percent (Landfill)	1.00	PCT	11.10	63.32		
Profile # 113428CO						0.00
Generator GREAT WESTERN OPERATING CO VARIOUS					0.00	
Manifest#: 8933553					0.00	
<b>Ticket Total</b>					<b>846.77</b>	
<b>Total Current Charges</b>						<b>9,098.72</b>



# NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No.		Manifest Doc No.		2. Page 1 of	
3. Generator's Mailing Address: GREAT WESTERN OIL & GAS 4093 SPECIALTY PL LONGMONT, CO 80504		Generator's Site Address (if different than mailing): GREAT WESTERN OIL & GAS WELL NAME: AFE/WELL #: <i>Heinze south</i>		A. Manifest Number <b>WMNA</b>		8933462	
4. Generator's Phone 970-685-9619				B. State Generator's ID			
5. Transporter 1 Company Name <i>Norco Transport #12</i>		6. US EPA ID Number		C. State Transporter's ID			
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone 720-425-1783			
9. Designated Facility Name and Site Address <del>BUFFALO RIDGE LANDFILL</del> <del>11655 WCB 59</del> <del>KENESBURG, CO 80643</del> <i>NWLF</i>		10. US EPA ID Number		E. State Transporter's ID			
				F. Transporter's Phone			
				G. State Facility ID			
				H. State Facility Phone 303-732-0218			
11. Description of Waste Materials		12. Containers		13. Total Quantity		14. Unit Wt./Vol.	
		No. Type				I. Misc. Comments	
a. NON REGULATED LIQUID - HYDROCARBON IMPACTED SOIL WM Profile # 112504CO 113428CO							
b. WM Profile #							
c. WM Profile #							
d. WM Profile #							
J. Additional Descriptions for Materials Listed Above ACCOUNT: BR 279 GREAT WESTERN OIL & GAS		K. Disposal Location					
		Cell		Level			
		Grid					
15. Special Handling Instructions and Additional Information							
Purchase Order #				EMERGENCY CONTACT / PHONE NO.: 1-800-424-9300 24HR TOLL FREE			
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.							
Printed Name <i>Great Western Oil &amp; Gas</i>		Signature "On behalf of"		Month <i>3</i>		Day <i>29</i>	
				Year <i>22</i>			
17. Transporter 1 Acknowledgement of Receipt of Materials		Printed Name <i>Close Corlee</i>		Signature		Month <i>3</i>	
						Day <i>29</i>	
						Year <i>22</i>	
18. Transporter 2 Acknowledgement of Receipt of Materials		Printed Name		Signature		Month	
						Day	
						Year	
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.							
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.							
Printed Name <i>B...</i>		Signature <i>B...</i>		Month <i>3</i>		Day <i>29</i>	
				Year <i>22</i>			

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# NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No.		Manifest Doc No.		2. Page 1 of		
3. Generator's Mailing Address: GREAT WESTERN OIL & GAS 4093 SPECIALTY PL LONGMONT, CO 80504		Generator's Site Address (if different than mailing): GREAT WESTERN OIL & GAS WELL NAME: AFE/WELL #: <i>Heinze South</i>		A. Manifest Number <b>WMNA</b>		8933464		
4. Generator's Phone 970-685-9619				B. State Generator's ID				
5. Transporter 1 Company Name		6. US EPA ID Number		C. State Transporter's ID				
				D. Transporter's Phone 720-425-1783				
7. Transporter 2 Company Name <i>Norco Transport 44</i>		8. US EPA ID Number		E. State Transporter's ID				
				F. Transporter's Phone				
9. Designated Facility Name and Site Address <del>BUFFALO RIDGE LANDFILL</del> <del>11655 WCR 59</del> <del>KEENESBURG, CO 80643</del> <i>NWLF</i>		10. US EPA ID Number		G. State Facility ID				
				H. State Facility Phone 303-732-0218				
11. Description of Waste Materials		12. Containers		13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments		
		No.	Type					
a. NON REGULATED LIQUID - HYDROCARBON IMPACTED SOIL WM Profile # <del>11250460</del> <i>11342860</i>								
b. WM Profile #								
c. WM Profile #								
d. WM Profile #								
J. Additional Descriptions for Materials Listed Above ACCOUNT: BR 279 GREAT WESTERN OIL & GAS		K. Disposal Location						
		Cell		Level				
		Grid						
15. Special Handling Instructions and Additional Information								
Purchase Order # EMERGENCY CONTACT / PHONE NO.: 1-800-424-9300 24HR TOLL FREE								
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.								
Printed Name <i>Great Western oil &amp; gas</i>		Signature "On behalf of" <i>[Signature]</i>		Month <i>3</i>	Day <i>29</i>	Year <i>22</i>		
17. Transporter 1 Acknowledgement of Receipt of Materials		Printed Name <i>Jarime Cepch</i>		Signature <i>Jarime C.</i>		Month <i>3</i>	Day <i>29</i>	Year <i>22</i>
18. Transporter 2 Acknowledgement of Receipt of Materials		Printed Name		Signature		Month	Day	Year
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.								
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.		Printed Name <i>[Signature]</i>		Signature <i>[Signature]</i>		Month <i>3</i>	Day <i>29</i>	Year <i>22</i>

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# NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No.		Manifest Doc No.		2. Page 1 of		
3. Generator's Mailing Address: GREAT WESTERN OIL & GAS 4093 SPECIALTY PL LONGMONT, CO 80504				Generator's Site Address (if different than mailing): GREAT WESTERN OIL & GAS WELL NAME: <i>Heinze south</i> AFE/WELL #:		A. Manifest Number WMNA 8933461		
4. Generator's Phone 970-685-9619				B. State Generator's ID				
5. Transporter 1 Company Name <i>AZ Transport #4</i>				6. US EPA ID Number		C. State Transporter's ID		
7. Transporter 2 Company Name				8. US EPA ID Number		D. Transporter's Phone 720-425-1783		
9. Designated Facility Name and Site Address <del>BUFFALO RIDGE LANDFILL</del> <del>11655 WCR 55</del> KEENESBURG, CO 80643 <i>NWLF</i>				10. US EPA ID Number		E. State Transporter's ID		
						F. Transporter's Phone		
						G. State Facility ID		
						H. State Facility Phone 303-732-0218		
GENERATOR	11. Description of Waste Materials			12. Containers No. Type		13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
	a. NON REGULATED LIQUID - HYDROCARBON IMPACTED SOIL WM Profile # <i>112504CO 113428CO</i>							
	b. <i>Waste Name</i> WM Profile #							
	c. <i>Waste Name</i> WM Profile #							
	d. <i>Waste Name</i> WM Profile #							
TRANSPORTER	J. Additional Descriptions for Materials Listed Above ACCOUNT: BR 279 - GREAT WESTERN OIL & GAS			K. Disposal Location				
				Cell			Level	
				Grid				
FACILITY	15. Special Handling Instructions and Additional Information							
	Purchase Order #				EMERGENCY CONTACT / PHONE NO.: 1-800-424-9300 24HR TOLL FREE			
	16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.							
	Printed Name <i>Great Western Oil &amp; Gas</i>			Signature "On behalf of" <i>[Signature]</i>			Month <i>3</i>	Day <i>29</i>
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials							
	Printed Name <i>Alex Hernandez</i>			Signature <i>Alex Hernandez</i>			Month <i>3</i>	Day <i>29</i>
FACILITY	18. Transporter 2 Acknowledgement of Receipt of Materials							
	Printed Name			Signature			Month	Day
FACILITY	19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.							
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.							
	Printed Name <i>[Signature]</i>			Signature <i>[Signature]</i>			Month <i>3</i>	Day <i>29</i>

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Pink- FACILITY USE ONLY      Gold- TRANSPORTER #1 COPY



# NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No.		Manifest Doc No.		2. Page 1 of		
3. Generator's Mailing Address: GREAT WESTERN OIL & GAS 4093 SPECIALTY PL LONGMONT, CO 80504		Generator's Site Address (if different than mailing): GREAT WESTERN OIL & GAS WELL NAME: AFE/WELL #: <i>Heinze South</i>		A. Manifest Number <b>WMNA</b>		8933548		
4. Generator's Phone 970-685-9619				B. State Generator's ID				
5. Transporter 1 Company Name		6. US EPA ID Number		C. State Transporter's ID				
7. Transporter 2 Company Name <i>Norco Transport 44</i>		8. US EPA ID Number		D. Transporter's Phone 720-425-1783				
9. Designated Facility Name and Site Address <del>BUFFALO RIDGE LANDFILL</del> <del>11655 WCR 59</del> <del>KEENESBURG, CO 80643</del> <i>NWLF</i>		10. US EPA ID Number		E. State Transporter's ID				
				F. Transporter's Phone				
				G. State Facility ID				
				H. State Facility Phone 303-732-0218				
11. Description of Waste Materials		12. Containers		13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments		
		No.	Type					
a. NON REGULATED LIQUID - HYDROCARBON IMPACTED SOIL WM Profile # <del>112504CO</del> <i>113428CO</i>								
b.								
WM Profile #								
c.								
WM Profile #								
d.								
WM Profile #								
J. Additional Descriptions for Materials Listed Above ACCOUNT: BR 279 GREAT WESTERN OIL & GAS		K. Disposal Location						
		Cell		Level				
		Grid						
15. Special Handling Instructions and Additional Information								
Purchase Order #				EMERGENCY CONTACT / PHONE NO.: 1-800-424-9300 24HR TOLL FREE				
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.								
Printed Name <i>Great Western Oil &amp; Gas</i>		Signature "On behalf of" <i>Jaime C. Peña</i>		Month <i>3</i>	Day <i>29</i>	Year <i>22</i>		
17. Transporter 1 Acknowledgement of Receipt of Materials		Printed Name <i>Jaime C. Peña</i>		Signature <i>Jaime C.</i>		Month <i>3</i>	Day <i>29</i>	Year <i>22</i>
18. Transporter 2 Acknowledgement of Receipt of Materials		Printed Name		Signature		Month	Day	Year
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.								
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.								
Printed Name <i>B. J. ...</i>		Signature <i>B. J. ...</i>		Month <i>3</i>	Day <i>29</i>	Year <i>22</i>		

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Yellow- GENERATOR #1 COPY



# NON-HAZARDOUS MANIFEST

<b>NON-HAZARDOUS MANIFEST</b>		1. Generator's US EPA ID No.		Manifest Doc No.		2. Page 1 of	
3. Generator's Mailing Address: GREAT WESTERN OIL & GAS 4093 SPECIALTY PL LONGMONT, CO 80504		Generator's Site Address (if different than mailing): GREAT WESTERN OIL & GAS WELL NAME: AFE/WELL #: <i>Heinze South</i>		A. Manifest Number <b>WMNA</b>		8933549	
4. Generator's Phone 970-685-9619				B. State Generator's ID			
5. Transporter 1 Company Name <i>AZ Transport #4</i>		6. US EPA ID Number		C. State Transporter's ID			
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone 720-425-1783			
9. Designated Facility Name and Site Address <del>BUFFALO RIDGE LANDFILL</del> <del>11655 WCR-59</del> KEENESBURG, CO 80643 <i>NWLF</i>		10. US EPA ID Number		E. State Transporter's ID			
				F. Transporter's Phone			
				G. State Facility ID			
				H. State Facility Phone 303-732-0218			
11. Description of Waste Materials		12. Containers		13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments	
		No.	Type				
a. NON REGULATED LIQUID - HYDROCARBON IMPACTED SOIL WM Profile # <del>11250460</del> <i>11342860</i>							
b.							
WM Profile #							
c.							
WM Profile #							
d.							
WM Profile #							
J. Additional Descriptions for Materials Listed Above ACCOUNT: BR 279 GREAT WESTERN OIL & GAS		K. Disposal Location					
		Cell		Level			
		Grid					
15. Special Handling Instructions and Additional Information							
Purchase Order #				EMERGENCY CONTACT / PHONE NO.: 1-800-424-9300 24HR TOLL FREE			
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.							
Printed Name <i>Great Western Oil &amp; Gas</i>		Signature "On behalf of" <i>Gaim Lopez</i>		Month	Day	Year	
17. Transporter 1 Acknowledgement of Receipt of Materials		Printed Name <i>Alfred Hernandez</i>		Signature <i>Alfred Hernandez</i>		Month	Day Year
						3	29 22
18. Transporter 2 Acknowledgement of Receipt of Materials		Printed Name		Signature		Month	Day Year
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.							
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.							
Printed Name <i>B...</i>		Signature <i>B...</i>		Month	Day	Year	
				3	29	22	

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Yellow- GENERATOR #1 COPY

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Gold- TRANSPORTER #1 COPY



# NON-HAZARDOUS MANIFEST

<b>NON-HAZARDOUS MANIFEST</b>		1. Generator's US EPA ID No.		Manifest Doc No.		2. Page 1 of		
3. Generator's Mailing Address: GREAT WESTERN OIL & GAS 4093 SPECIALTY PL LONGMONT, CO 80504				Generator's Site Address (If different than mailing): GREAT WESTERN OIL & GAS WELL NAME: AFE/WELL #: <i>Heinze south</i>		A. Manifest Number <b>WMNA</b> 8933551		
4. Generator's Phone 970-685-9619				B. State Generator's ID				
5. Transporter 1 Company Name				6. US EPA ID Number		C. State Transporter's ID		
7. Transporter 2 Company Name <i>Norco Transport 44</i>				8. US EPA ID Number		D. Transporter's Phone 720-425-1783		
9. Designated Facility Name and Site Address BUFFALO RIDGE LANDFILL 11655 WCR 59 KEENESBURG, CO 80643				10. US EPA ID Number		E. State Transporter's ID		
						F. Transporter's Phone		
						G. State Facility ID		
						H. State Facility Phone 303-732-0218		
GENERATOR	11. Description of Waste Materials				12. Containers		13. Total Quantity	
	a. NON REGULATED LIQUID - HYDROCARBON IMPACTED SOIL				No. Type		14. Unit Wt./Vol.	
	WM Profile # 112504CO <i>11342860</i>						I. Misc. Comments	
	b.							
	WM Profile #							
TRANSPORTER	c.							
	WM Profile #							
	d.							
	WM Profile #							
	J. Additional Descriptions for Materials Listed Above ACCOUNT: BR 279 GREAT WESTERN OIL & GAS				K. Disposal Location			
				Cell		Level		
				Grid				
15. Special Handling Instructions and Additional Information								
Purchase Order # EMERGENCY CONTACT / PHONE NO.: 1-800-424-9300 24HR TOLL FREE								
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.								
Printed Name <i>Greatwestern Oil &amp; Gas</i>				Signature "On behalf of" <i>Jim L...</i>		Month Day Year		
FACILITY	17. Transporter 1 Acknowledgement of Receipt of Materials				Printed Name <i>Jim Cepeda</i>		Signature <i>Jim C.</i>	
					Month Day Year		Month Day Year	
	18. Transporter 2 Acknowledgement of Receipt of Materials				Printed Name		Signature	
				Month Day Year		Month Day Year		
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.								
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.								
Printed Name <i>Robert L. L...</i>				Signature <i>[Signature]</i>		Month Day Year		
						3 29 22		

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Yellow- GENERATOR #1 COPY

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Gold- TRANSPORTER #1 COPY





# NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No.		Manifest Doc No.		2. Page 1 of							
3. Generator's Mailing Address: GREAT WESTERN OIL & GAS 4093 SPECIALTY PL LONGMONT, CO 80504				Generator's Site Address (If different than mailing): GREAT WESTERN OIL & GAS WELL NAME: AFE/WELL #: <i>Heinze 500M</i>		A. Manifest Number <b>WMNA</b> 8933465							
4. Generator's Phone 970-685-9619				B. State Generator's ID									
5. Transporter 1 Company Name <i>AZ Transport #4</i>				6. US EPA ID Number		C. State Transporter's ID							
7. Transporter 2 Company Name				8. US EPA ID Number		D. Transporter's Phone 720-425-1783							
9. Designated Facility Name and Site Address BUFFALO RIDGE LANDFILL 11655 WCR 59 KEENESBURG, CO 80643				10. US EPA ID Number		E. State Transporter's ID							
						F. Transporter's Phone							
						G. State Facility ID							
						H. State Facility Phone 303-732-0218							
GENERATOR	11. Description of Waste Materials			12. Containers		13. Total Quantity	14. Unit Wt./Vol.	15. Misc. Comments					
				No.	Type								
	a. NON REGULATED LIQUID - HYDROCARBON IMPACTED SOIL WM Profile # 112504CO												
	b. WM Profile #												
	c. WM Profile #												
d. WM Profile #													
TRANSPORTER	J. Additional Descriptions for Materials Listed Above ACCOUNT: BR 279 GREAT WESTERN OIL & GAS			K. Disposal Location									
				Cell		Level							
				Grid									
FACILITY	15. Special Handling Instructions and Additional Information												
	Purchase Order # EMERGENCY CONTACT / PHONE NO.: 1-800-424-9300 24HR TOLL FREE												
	16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.												
	Printed Name <i>Great Western Oil &amp; Gas</i>			Signature "On behalf of" <i>[Signature]</i>			Month	Day	Year				
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials			Printed Name <i>Alex Hernandez</i>			Signature <i>Alex Hernandez</i>			Month	Day	Year	
										3	29	22	
FACILITY	18. Transporter 2 Acknowledgement of Receipt of Materials			Printed Name			Signature			Month	Day	Year	
FACILITY	19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.												
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.												
	Printed Name <i>Robert L. Loran</i>			Signature <i>[Signature]</i>			Month	Day	Year				
									3	29	22		
White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY				Blue- GENERATOR #2 COPY				Yellow- GENERATOR #1 COPY					
Pink- FACILITY USE ONLY				Gold- TRANSPORTER #1 COPY									



# NON-HAZARDOUS MANIFEST

<b>NON-HAZARDOUS MANIFEST</b>		1. Generator's US EPA ID No.		Manifest Doc No.		2. Page 1 of		
3. Generator's Mailing Address: GREAT WESTERN OIL & GAS 4093 SPECIALTY PL LONGMONT, CO 80504		Generator's Site Address (If different than mailing): GREAT WESTERN OIL & GAS WELL NAME: AFE/WELL #: <i>Heinze South</i>		A. Manifest Number <b>WMNA</b>		8933552		
4. Generator's Phone 970-685-9619				B. State Generator's ID				
5. Transporter 1 Company Name <i>Norco Transport 44</i>		6. US EPA ID Number		C. State Transporter's ID		D. Transporter's Phone 720-425-1783		
7. Transporter 2 Company Name		8. US EPA ID Number		E. State Transporter's ID		F. Transporter's Phone		
9. Designated Facility Name and Site Address BUFFALO RIDGE LANDFILL 11655 WCR 59 KEENESBURG, CO 80643		10. US EPA ID Number		G. State Facility ID		H. State Facility Phone 303-732-0218		
11. Description of Waste Materials		12. Containers		13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments		
		No.	Type					
		a. NON REGULATED LIQUID - HYDROCARBON IMPACTED SOIL						
		WM Profile # 112504CO						
		b.						
WM Profile #								
c.								
WM Profile #								
d.								
WM Profile #								
J. Additional Descriptions for Materials Listed Above ACCOUNT: BR 279 GREAT WESTERN OIL & GAS		K. Disposal Location		Cell		Level		
				Grid				
15. Special Handling Instructions and Additional Information								
Purchase Order #		EMERGENCY CONTACT / PHONE NO.: 1-800-424-9300 24HR TOLL FREE						
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.								
Printed Name <i>Great Western Oil &amp; Gas</i>		Signature/On behalf of <i>James Lopez</i>				Month	Day	Year
17. Transporter 1 Acknowledgement of Receipt of Materials		Printed Name <i>James Lopez</i>				Signature <i>James C</i>		
						Month	Day	Year
18. Transporter 2 Acknowledgement of Receipt of Materials		Printed Name				Signature		
						Month	Day	Year
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.								
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.								
Printed Name <i>Robert L. Lamm</i>		Signature <i>[Signature]</i>				Month	Day	Year
						3	29	22

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY      Blue- GENERATOR #2 COPY      Yellow- GENERATOR #1 COPY  
Pink- FACILITY USE ONLY      Gold- TRANSPORTER #1 COPY



# NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No.		Manifest Doc No.		2. Page 1 of	
3. Generator's Mailing Address: GREAT WESTERN OIL & GAS 4093 SPECIALTY PL LONGMONT, CO 80504				Generator's Site Address (if different than mailing): GREAT WESTERN OIL & GAS WELL NAME: AFE/WELL #:		A. Manifest Number WMNA	
4. Generator's Phone 970-685-9619				Heinze South		B. State Generator's ID 8933553	
5. Transporter 1 Company Name Norco Transport #12				6. US EPA ID Number		C. State Transporter's ID	
7. Transporter 2 Company Name				8. US EPA ID Number		D. Transporter's Phone 720-425-1783	
9. Designated Facility Name and Site Address BUFFALO RIDGE LANDFILL 11655 WEN 59 KEENESBURG, CO 80643 NwLF				10. US EPA ID Number		E. State Transporter's ID	
						F. Transporter's Phone	
						G. State Facility ID	
						H. State Facility Phone 303-732-0218	
11. Description of Waste Materials				12. Containers		13. Total	
				No. Type		Quantity	
a. NON REGULATED LIQUID - HYDROCARBON IMPACTED SOIL WM Profile # 11250460 11348800						14. Unit	
						Wt./Vol.	
b.						I. Misc. Comments	
WM Profile #							
c.							
WM Profile #							
d.							
WM Profile #							
J. Additional Descriptions for Materials Listed Above ACCOUNT: BR 279 GREAT WESTERN OIL & GAS				K. Disposal Location			
				Cell			
				Level			
				Grid			
15. Special Handling Instructions and Additional Information							
Purchase Order # EMERGENCY CONTACT / PHONE NO.: 1-800-424-9300 24HR TOLL FREE							
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.							
Printed Name Great Western Oil & Gas				Signature "On behalf of" [Signature]		Month Day Year	
17. Transporter 1 Acknowledgement of Receipt of Materials				Printed Name Jose Cortez		Signature [Signature]	
						Month Day Year	
18. Transporter 2 Acknowledgement of Receipt of Materials				Printed Name		Signature	
						Month Day Year	
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.							
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.							
Printed Name [Signature]				Signature [Signature]		Month Day Year	
						3 30 22	

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY

Blue- GENERATOR #2 COPY

Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY

Gold- TRANSPORTER #1 COPY



# INVOICE

**Customer ID:****13-30656-43009**

Customer Name:

GREAT WESTERN OPERATING COMPANY, LLC

Service Period:

CONSOLIDATED INVOICE

Invoice Date:

04/01/2022

Invoice Number:

0047864-2514-2

**How To Contact Us**Visit **wm.com**

To setup your online profile, sign up for paperless statements, manage your account, view holiday schedules, pay your invoice or schedule a pickup



Customer Service:  
**(303) 797-1600**

**Your Payment Is Due****05/15/2022**

If full payment of the invoiced amount is not received within your contractual terms, you may be charged a monthly late charge of 2.5% of the unpaid amount, with a minimum monthly charge of \$5, or such late charge allowed under applicable law, regulation or contract.

**Your Total Due****\$16,040.22****Previous Balance**

2,874.27

+

**Payments**

0.00

+

**Adjustments**

0.00

+

**Current Invoice Charges**

13,165.95

=

**Total Account Balance Due****16,040.22****DETAILS OF SERVICE****Details for Service Location:****Line of Business: Landfill****Customer ID: 13-29917-63001**

**Great Western Operating Co, Llc, 2005 Howard Smith Ave East, Windsor CO 80550-3500**

**Service Period: 03/01/22-03/31/22**

Description	Date	Ticket	Quantity	Unit of Measure	Rate	Amount
Vehicle#: 4	03/30/22	2128960				0.00
Cont. Soil - Petroleum			23.03	TON	23.10	531.99
Haz-Substance Response Fee Cont. Soil						6.22
Standard Environmental Fee - Percent (Landfill)			1.00	PCT	20.00	106.40
Fuel Surcharge - Landfill			1.00	PCT	12.72	67.67
Regulatory Cost Recovery			1.00	PCT	3.60	19.15
Waste Water Management - Percent (Landfill)			1.00	PCT	11.10	59.05
Profile # 132955CO						0.00
Generator GREAT WESTERN OPERATING CO VARIOUS						0.00
Manifest#: 10366181						0.00
<b>Ticket Total</b>						<b>790.48</b>



----- Please detach and send the lower portion with payment ----- (no cash or staples) -----



WASTE MANAGEMENT OF COLORADO, INC.

PO BOX 43350  
PHOENIX, AZ 85080  
(303) 797-1600

**Invoice Date**

04/01/2022

**Invoice Number**

0047864-2514-2

**Customer ID**

(Include with your payment)

**13-30656-43009****Payment Terms**

Total Due by 05/15/2022

**Total Due**

\$16,040.22

**Amount**

2514000133065643009000478640000131659500001604022 8

I0178M12

GREAT WESTERN OPERATING COMPANY, LLC  
7780 E 96TH AVE  
COMMERCE CITY CO 80640-8534

Remit To: **WM CORPORATE SERVICES, INC.**  
**AS PAYMENT AGENT**  
**PO BOX 7400**  
**PASADENA, CA 91109-7400**

**THINK GREEN.®**



## DETAILS OF SERVICE - continued

**Details for Service Location:** **Line of Business: Landfill** **Customer ID: 13-29917-63001**  
**Great Western Operating Co, Llc, 2005 Howard Smith Ave East, Windsor CO 80550-3500** **Service Period: 03/01/22-03/31/22**

Description	Date	Ticket	Quantity	Unit of Measure	Rate	Amount
Vehicle#: 77	03/30/22	2128963				0.00
Cont. Soil - Petroleum			23.89	TON	23.10	551.86
Haz-Substance Response Fee Cont. Soil						6.45
Standard Environmental Fee - Percent (Landfill)			1.00	PCT	20.00	110.37
Fuel Surcharge - Landfill			1.00	PCT	12.72	70.20
Regulatory Cost Recovery			1.00	PCT	3.60	19.87
Waste Water Management - Percent (Landfill)			1.00	PCT	11.10	61.26

### 5 EASY WAYS TO PAY



#### Automatic Payment

Set up recurring payments with us at [wm.com/myaccount](http://wm.com/myaccount).



#### Pay Through Your Financial Institution

Make a payment from your financial institution using your Customer ID.



#### One-Time Payment

At your desk or on the go, use [wm.com](http://wm.com) or our WM mobile app for a quick and easy payment.



#### Pay by Phone

Payable 24/7 using our automated system at 866-964-2729.



#### Mail it

Write it, stuff it, stamp it, mail it. Envelope provided.

### HOW TO READ YOUR INVOICE

How To Contact Us		Your Payment Is Due		Your Total Due	
<b>Visit <a href="http://wm.com">wm.com</a></b> <small>To set up your online profile, sign up for paperless billing, manage your account, view holidays schedules, pay your bill or schedule a pickup.</small> 		<b>August 19, 2017</b> <small>If full payment of the invoiced amount is not received by the invoice due date, you will be charged a monthly late charge of 2.5% of the unpaid amount, with a minimum charge of \$5.00, or such lesser late charge allowed under applicable law, regulation or contract.</small>		<b>\$124.73</b> <small>If payment is received after 08/19/2017 - \$126.60 See reverse for important messages.</small>	
Previous Balance	Payments	Adjustments	Current Charges	Total Due	
97.12	(97.12)	0.00	124.73	<b>124.73</b>	
<small>Details for Service Location: 311 Jackson Street, Stockton CA 95205 Customer ID: 2-82290-00885 PO Numbers: 45693</small>					
Description	Date	Ticket	Quantity	Amount	
96 Toter	07/01/17		1.00	90.00	
96 Toter Recycle	07/01/17		1.00	0.00	
Extra Pickup Service	07/01/17	5934	1.00	15.00	
Fuel/Environmental Charge				19.73	
<b>Total Current Charges</b>				<b>124.73</b>	

1

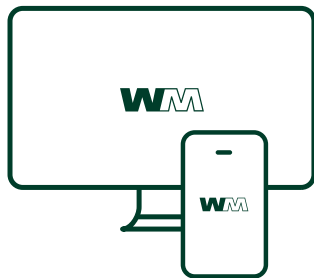
States the date payment is due to Waste Management. Anything beyond that date may incur additional charges. Your **Total Due** is the total amount of current charges and any previous unpaid balances combined.

2

Previous balance is the total due from your previous invoice. We subtract any **Payments Received/Adjustments** and add your **Current Charges** from this billing cycle to get a **Total Due** on this invoice. If you have not paid all or a portion of your previous balance, please pay the entire **Total Due** to avoid a late charge or service interruption.

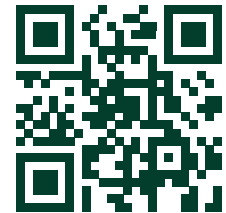
3

Service location details the total current charges of this invoice.



## Get More with My WM

Create a My WM profile to enroll in AutoPay & Paperless Billing, manage your services, view your pickup schedule and see your pickup ETA, all in one place.



**Scan the QR code to get started today!**

If your service is suspended for non-payment, you may be charged a Resume charge to restart your service. For each returned check, a charge will be assessed on your next invoice equal to the maximum amount permitted by applicable state law.

#### CHECK HERE TO CHANGE CONTACT INFO

List your new billing information below. For a change of service address, please contact Waste Management.

Address 1	
Address 2	
City	
State	
Zip	
Email	
Date Valid	

#### CHECK HERE TO SIGN UP FOR AUTOMATIC PAYMENT ENROLLMENT

If I enroll in Automatic Payment services, I authorize Waste Management to pay my invoice by electronically deducting money from my bank account. I can cancel authorization by notifying Waste Management at [wm.com](http://wm.com) or by calling the customer service number listed on my invoice. Your enrollment could take 1-2 billing cycles for Automatic Payments to take effect. Continue to submit payment until page one of your invoice reflects that your payment will be deducted.

Email Address	
Date	
Bank Account Holder Signature	

**NOTICE:** By sending your check, you are authorizing the Company to use information on your check to make a one-time electronic debit to your account at the financial institution indicated on your check. The electronic debit will be for the amount of your check and may occur as soon as the same day we receive your check.

In order for us to service your account or to collect any amounts you may owe (for non-marketing or solicitation purposes), we may contact you by telephone at any telephone number that you provided in connection with your account, including wireless telephone numbers, which could result in charges to you. Methods of contact may include text messages and using pre-recorded/artificial voice messages and/or use of an automatic dialing device, as applicable. We may also contact you by email or other methods as provided in our contract.

Please send all bankruptcy correspondence to [RMCbankruptcy@wm.com](mailto:RMCbankruptcy@wm.com) or PO Box 43290 Phoenix, AZ 85080. Using the email option will expedite your request. (this language is in compliance with 11 USC 342(c)(2) of the Bankruptcy Code)

**Customer ID:**
**13-30656-43009**

Customer Name:

GREAT WESTERN OPERATING COMPANY, LLC

Service Period:

CONSOLIDATED INVOICE

Invoice Date:

04/01/2022

Invoice Number:

0047864-2514-2

**DETAILS OF SERVICE - continued**

<b>Details for Service Location:      Line of Business: Landfill      Customer ID: 13-29917-63001</b> <b>Great Western Operating Co, LLC, 2005 Howard Smith Ave East, Windsor CO      Service Period: 03/01/22-03/31/22</b> <b>80550-3500</b>						
Description	Date	Ticket	Quantity	Unit of Measure	Rate	Amount
Profile # 132955CO Generator GREAT WESTERN OPERATING CO VARIOUS Manifest#: 10366183 <b>Ticket Total</b>						0.00 0.00 0.00 <b>820.01</b>
Vehicle#: 5 Cont. Soil - Petroleum Haz-Substance Response Fee Cont. Soil Standard Environmental Fee - Percent (Landfill) Fuel Surcharge - Landfill Regulatory Cost Recovery Waste Water Management - Percent (Landfill) Profile # 132955CO Generator GREAT WESTERN OPERATING CO VARIOUS Manifest#: 10366182 <b>Ticket Total</b>	03/30/22	2128977	22.67	TON	23.10	0.00 523.68 6.12 104.74 66.61 18.85 58.13 0.00 0.00 0.00 <b>778.13</b>
Vehicle#: 44 Cont. Soil - Petroleum Haz-Substance Response Fee Cont. Soil Standard Environmental Fee - Percent (Landfill) Fuel Surcharge - Landfill Regulatory Cost Recovery Waste Water Management - Percent (Landfill) Profile # 132955CO Generator GREAT WESTERN OPERATING CO VARIOUS Manifest#: 10366192 <b>Ticket Total</b>	03/30/22	2128986	23.29	TON	23.10	0.00 538.00 6.29 107.60 68.43 19.37 59.72 0.00 0.00 0.00 <b>799.41</b>
Vehicle#: 4 Cont. Soil - Petroleum Haz-Substance Response Fee Cont. Soil Standard Environmental Fee - Percent (Landfill) Fuel Surcharge - Landfill Regulatory Cost Recovery Waste Water Management - Percent (Landfill) Profile # 132955CO Generator GREAT WESTERN OPERATING CO VARIOUS Manifest#: 10366179 <b>Ticket Total</b>	03/30/22	2129007	23.88	TON	23.10	0.00 551.63 6.45 110.33 70.17 19.86 61.23 0.00 0.00 0.00 <b>819.67</b>
Vehicle#: 77 Cont. Soil - Petroleum Haz-Substance Response Fee Cont. Soil Standard Environmental Fee - Percent (Landfill) Fuel Surcharge - Landfill Regulatory Cost Recovery Waste Water Management - Percent (Landfill) Profile # 132955CO Generator GREAT WESTERN OPERATING CO VARIOUS Manifest#: 10366180 <b>Ticket Total</b>	03/30/22	2129015	23.01	TON	23.10	0.00 531.53 6.21 106.31 67.61 19.14 59.00 0.00 0.00 0.00 <b>789.80</b>
Vehicle#: 12 Cont. Soil - Petroleum Haz-Substance Response Fee Cont. Soil Standard Environmental Fee - Percent (Landfill) Fuel Surcharge - Landfill	03/30/22	2129021	25.39	TON	23.10	0.00 586.51 6.86 117.30 74.60

## DETAILS OF SERVICE - continued

**Details for Service Location:**      **Line of Business: Landfill**      **Customer ID: 13-29917-63001**  
**Great Western Operating Co, LLC, 2005 Howard Smith Ave East, Windsor CO 80550-3500**      **Service Period: 03/01/22-03/31/22**

Description	Date	Ticket	Quantity	Unit of Measure	Rate	Amount
Regulatory Cost Recovery			1.00	PCT	3.60	21.11
Waste Water Management - Percent (Landfill)			1.00	PCT	11.10	65.10
Profile # 132955CO						0.00
Generator GREAT WESTERN OPERATING CO VARIOUS						0.00
Manifest#: 10366178						0.00
<b>Ticket Total</b>						<b>871.48</b>
Vehicle#: 4	03/30/22	2129038				0.00
Cont. Soil - Petroleum			26.13	TON	23.10	603.60
Haz-Substance Response Fee Cont. Soil						7.06
Standard Environmental Fee - Percent (Landfill)			1.00	PCT	20.00	120.72
Fuel Surcharge - Landfill			1.00	PCT	12.72	76.78
Regulatory Cost Recovery			1.00	PCT	3.60	21.73
Waste Water Management - Percent (Landfill)			1.00	PCT	11.10	67.00
Profile # 132955CO						0.00
Generator GREAT WESTERN OPERATING CO VARIOUS						0.00
Manifest#: 10355177						0.00
<b>Ticket Total</b>						<b>896.89</b>
Vehicle#: 5	03/30/22	2129047				0.00
Cont. Soil - Petroleum			26.45	TON	23.10	611.00
Haz-Substance Response Fee Cont. Soil						7.14
Standard Environmental Fee - Percent (Landfill)			1.00	PCT	20.00	122.20
Fuel Surcharge - Landfill			1.00	PCT	12.72	77.72
Regulatory Cost Recovery			1.00	PCT	3.60	22.00
Waste Water Management - Percent (Landfill)			1.00	PCT	11.10	67.82
Profile # 132955CO						0.00
Generator GREAT WESTERN OPERATING CO VARIOUS						0.00
Manifest#: 10366176						0.00
<b>Ticket Total</b>						<b>907.88</b>
Vehicle#: 44	03/30/22	2129061				0.00
Cont. Soil - Petroleum			26.11	TON	23.10	603.14
Haz-Substance Response Fee Cont. Soil						7.05
Standard Environmental Fee - Percent (Landfill)			1.00	PCT	20.00	120.63
Fuel Surcharge - Landfill			1.00	PCT	12.72	76.72
Regulatory Cost Recovery			1.00	PCT	3.60	21.71
Waste Water Management - Percent (Landfill)			1.00	PCT	11.10	66.95
Profile # 132955CO						0.00
Generator GREAT WESTERN OPERATING CO VARIOUS						0.00
Manifest#: 10366175						0.00
<b>Ticket Total</b>						<b>896.20</b>
Vehicle#: 4	03/30/22	2129070				0.00
Cont. Soil - Petroleum			25.93	TON	23.10	598.98
Haz-Substance Response Fee Cont. Soil						7.00
Standard Environmental Fee - Percent (Landfill)			1.00	PCT	20.00	119.80
Fuel Surcharge - Landfill			1.00	PCT	12.72	76.19
Regulatory Cost Recovery			1.00	PCT	3.60	21.56
Waste Water Management - Percent (Landfill)			1.00	PCT	11.10	66.49
Profile # 132955CO						0.00
Generator GREAT WESTERN OPERATING CO VARIOUS						0.00
Manifest#: 10366174						0.00
<b>Ticket Total</b>						<b>890.02</b>
Vehicle#: 12	03/30/22	2129079				0.00
Cont. Soil - Petroleum			24.57	TON	23.10	567.57
Haz-Substance Response Fee Cont. Soil						6.63
Standard Environmental Fee - Percent (Landfill)			1.00	PCT	20.00	113.51
Fuel Surcharge - Landfill			1.00	PCT	12.72	72.19
Regulatory Cost Recovery			1.00	PCT	3.60	20.43
Waste Water Management - Percent (Landfill)			1.00	PCT	11.10	63.00
Profile # 132955CO						0.00
Generator GREAT WESTERN OPERATING CO VARIOUS						0.00
Manifest#: 10366172						0.00
<b>Ticket Total</b>						<b>843.33</b>

**Customer ID:**
**13-30656-43009**

Customer Name:

GREAT WESTERN OPERATING COMPANY, LLC

Service Period:

CONSOLIDATED INVOICE

Invoice Date:

04/01/2022

Invoice Number:

0047864-2514-2

**DETAILS OF SERVICE - continued**

<b>Details for Service Location:</b>		<b>Line of Business: Landfill</b>		<b>Customer ID: 13-29917-63001</b>		
<b>Great Western Operating Co, Llc, 2005 Howard Smith Ave East, Windsor CO 80550-3500</b>		<b>Service Period: 03/01/22-03/31/22</b>				
Description	Date	Ticket	Quantity	Unit of Measure	Rate	Amount
Vehicle#: 77	03/30/22	2129081				0.00
Cont. Soil - Petroleum			24.61	TON	23.10	568.49
Haz-Substance Response Fee Cont. Soil						6.64
Standard Environmental Fee - Percent (Landfill)			1.00	PCT	20.00	113.70
Fuel Surcharge - Landfill			1.00	PCT	12.72	72.31
Regulatory Cost Recovery			1.00	PCT	3.60	20.47
Waste Water Management - Percent (Landfill)			1.00	PCT	11.10	63.10
Profile # 132955CO						0.00
Generator GREAT WESTERN OPERATING CO VARIOUS						0.00
Manifest#: 10366173						0.00
<b>Ticket Total</b>						<b>844.71</b>
Vehicle#: 5	03/30/22	2129098				0.00
Cont. Soil - Petroleum			26.21	TON	23.10	605.45
Haz-Substance Response Fee Cont. Soil						7.08
Standard Environmental Fee - Percent (Landfill)			1.00	PCT	20.00	121.09
Fuel Surcharge - Landfill			1.00	PCT	12.72	77.01
Regulatory Cost Recovery			1.00	PCT	3.60	21.80
Waste Water Management - Percent (Landfill)			1.00	PCT	11.10	67.20
Profile # 132955CO						0.00
Generator GREAT WESTERN OPERATING CO VARIOUS						0.00
Manifest#: 10366171						0.00
<b>Ticket Total</b>						<b>899.63</b>
Vehicle#: 44	03/30/22	2129119				0.00
Cont. Soil - Petroleum			23.35	TON	23.10	539.39
Haz-Substance Response Fee Cont. Soil						6.30
Standard Environmental Fee - Percent (Landfill)			1.00	PCT	20.00	107.88
Fuel Surcharge - Landfill			1.00	PCT	12.72	68.61
Regulatory Cost Recovery			1.00	PCT	3.60	19.42
Waste Water Management - Percent (Landfill)			1.00	PCT	11.10	59.87
Profile # 132955CO						0.00
Generator GREAT WESTERN OPERATING CO VARIOUS						0.00
Manifest#: 10366170						0.00
<b>Ticket Total</b>						<b>801.47</b>
Vehicle#: 5	03/30/22	2129171				0.00
Cont. Soil - Petroleum			14.81	TON	23.10	342.11
Haz-Substance Response Fee Cont. Soil						4.00
Standard Environmental Fee - Percent (Landfill)			1.00	PCT	20.00	68.42
Fuel Surcharge - Landfill			1.00	PCT	12.72	43.52
Regulatory Cost Recovery			1.00	PCT	3.60	12.32
Waste Water Management - Percent (Landfill)			1.00	PCT	11.10	37.97
Profile # 132955CO						0.00
Generator GREAT WESTERN OPERATING CO VARIOUS						0.00
Manifest#: 10366117						0.00
<b>Ticket Total</b>						<b>508.34</b>
Total Charges for Service Location						13,157.45
<b>Invoice Charges - Master Account:</b>		<b>Line of Business: Roll Off</b>		<b>Customer ID: 13-30656-43009</b>		
<b>Great Western Operating Company, Llc, 7780 E 96th Ave, Commerce City CO 80640-8534</b>		<b>Service Period: MASTER</b>				
Description	Date	Ticket	Quantity	Amount		
MASTER ACCOUNT FEL				0.00		
ADMINISTRATIVE CHARGE	04/01/22			8.50		
<b>Total Invoice Charges</b>					<b>8.50</b>	





# NON-HAZARDOUS MANIFEST

<b>NON-HAZARDOUS MANIFEST</b>		1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of	
3. Generator's Mailing Address:		Generator's Site Address (if different than mailing): GREAT WESTERN OPERATING CO LLC iteinze south 05-123-32191		A. Manifest Number WMNA	10366181
4. Generator's Phone 970-685-9619		B. State Generator's ID			
5. Transporter 1 Company Name AZ Transport #4		6. US EPA ID Number		C. State Transporter's ID	
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone	
9. Designated Facility Name and Site Address NORTH WELD LANDFILL 40000 WELD COUNTY RD 25 AULT CO 80610		10. US EPA ID Number		E. State Transporter's ID	
				F. Transporter's Phone	
				G. State Facility ID	
				H. State Facility Phone 970-545-5015	
GENERATOR	11. Description of Waste Materials		12. Containers	13. Total Quantity	14. Unit Wt./Vol.
	a. NON REGULATED SOLID - HYDROCARBON IMPACTED SOIL		No. Type		
	WM Profile # 132955CO				
	b. WM Profile #				
	c. WM Profile #				
d. WM Profile #					
J. Additional Descriptions for Materials Listed Above ACCT # : N 10443 NAME: GREAT WESTERN OIL AND GAS LLC		K. Disposal Location			
		Cell		Level	
		Grid			
15. Special Handling Instructions and Additional Information					
Purchase Order # EMERGENCY CONTACT / PHONE NO.: 1-800-424-9300 24HR TOLL FREE					
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.					
Printed Name Great Western Operating		Signature "On behalf of"		Month 3	Day 30
				Year 22	
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials				
	Printed Name Alex Hernandez	Signature	Month 3	Day 30	Year 22
FACILITY	18. Transporter 2 Acknowledgement of Receipt of Materials				
	Printed Name	Signature	Month	Day	Year
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.					
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.					
Printed Name B...		Signature		Month 3	Day 30
				Year 22	

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY

Blue- GENERATOR #2 COPY

Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY

Gold- TRANSPORTER #1 COPY



# NON-HAZARDOUS MANIFEST

<b>NON-HAZARDOUS MANIFEST</b>		1. Generator's US EPA ID No.		Manifest Doc No.		2. Page 1 of	
3. Generator's Mailing Address:		Generator's Site Address (if different than mailing): GREAT WESTERN OPERATING CO LLC Heinze South 05-123-32191		A. Manifest Number WMNA		10366183	
4. Generator's Phone 970-685-9619		5. Transporter 1 Company Name		B. State Generator's ID			
7. Transporter 2 Company Name Norco Transport #77		6. US EPA ID Number		C. State Transporter's ID			
9. Designated Facility Name and Site Address NORTH WELD LANDFILL 40000 WELD COUNTY RD 25 AULT CO 80610		8. US EPA ID Number		D. Transporter's Phone			
		10. US EPA ID Number		E. State Transporter's ID			
				F. Transporter's Phone			
				G. State Facility ID			
				H. State Facility Phone 970-545-5015			
11. Description of Waste Materials		12. Containers		13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments	
		No.	Type				
a. NON REGULATED SOLID - HYDROCARBON IMPACTED SOIL WM Profile # 132955CO							
b. WM Profile #							
c. WM Profile #							
d. WM Profile #							
J. Additional Descriptions for Materials Listed Above ACCT #: N 10443 NAME: GREAT WESTERN OIL AND GAS LLC		K. Disposal Location					
		Cell		Level			
		Grid					
15. Special Handling Instructions and Additional Information							
Purchase Order #				EMERGENCY CONTACT / PHONE NO.: 1-800-424-9300 24HR TOLL FREE			
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.							
Printed Name Great Western Operating		Signature "On behalf of"		Month 3	Day 30	Year 22	
17. Transporter 1 Acknowledgement of Receipt of Materials		Signature		Month	Day	Year	
Printed Name							
18. Transporter 2 Acknowledgement of Receipt of Materials		Signature		Month	Day	Year	
Printed Name Mario Fuentes				3	30	22	
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.							
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.							
Printed Name		Signature		Month	Day	Year	
				3	30	22	

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY      Blue- GENERATOR #2 COPY      Yellow- GENERATOR #1 COPY  
Pink- FACILITY USE ONLY      Gold- TRANSPORTER #1 COPY



# NON-HAZARDOUS MANIFEST

<b>NON-HAZARDOUS MANIFEST</b>		1. Generator's US EPA ID No.		Manifest Doc No.		2. Page 1 of	
3. Generator's Mailing Address:		Generator's Site Address (if different than mailing): GREAT WESTERN OPERATING CO LLC Heinze South 05-123-32191		A. Manifest Number WMNA		10366182	
4. Generator's Phone 970-685-9619				B. State Generator's ID			
5. Transporter 1 Company Name Norco Transpro		6. US EPA ID Number		C. State Transporter's ID			
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone			
9. Designated Facility Name and Site Address NORTH WELD LANDFILL 40000 WELD COUNTY RD 25 AULT CO 80610		10. US EPA ID Number		E. State Transporter's ID			
				F. Transporter's Phone			
				G. State Facility ID			
				H. State Facility Phone 970-545-5015			
11. Description of Waste Materials		12. Containers		13. Total Quantity		14. Unit Wt./Vol.	
a. NON REGULATED SOLID - HYDROCARBON IMPACTED SOIL		No. Type				I. Misc. Comments	
WM Profile # 132955CO							
b.							
WM Profile #							
c.							
WM Profile #							
d.							
WM Profile #							
J. Additional Descriptions for Materials Listed Above ACCT # : N 10443 NAME: GREAT WESTERN OIL AND GAS LLC		K. Disposal Location					
		Cell		Level			
		Grid					
15. Special Handling Instructions and Additional Information							
Purchase Order # EMERGENCY CONTACT / PHONE NO.: 1-800-424-9300 24HR TOLL FREE							
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.							
Printed Name Great Western Operating		Signature "On behalf of"		Month 3		Day 30	
				Year 22			
17. Transporter 1 Acknowledgement of Receipt of Materials		Printed Name Enrique Garcia		Signature		Month 3	
						Day 30	
						Year 22	
18. Transporter 2 Acknowledgement of Receipt of Materials		Printed Name		Signature		Month	
						Day	
						Year	
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.							
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.							
Printed Name BSC		Signature		Month 3		Day 30	
				Year 22			

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY

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Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY

Gold- TRANSPORTER #1 COPY



# NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No.		Manifest Doc No.		2. Page 1 of	
3. Generator's Mailing Address:		Generator's Site Address (if different than mailing): GREAT WESTERN OPERATING CO LLC Heinze South 05-123-32191		A. Manifest Number WMNA		10366192	
4. Generator's Phone 970-685-9619		5. Transporter 1 Company Name		B. State Generator's ID			
7. Transporter 2 Company Name NORCO Transport 44		6. US EPA ID Number		C. State Transporter's ID			
9. Designated Facility Name and Site Address NORTH WELD LANDFILL 40000 WELD COUNTY RD 25 AULT CO 80610		8. US EPA ID Number		D. Transporter's Phone			
		10. US EPA ID Number		E. State Transporter's ID			
				F. Transporter's Phone			
				G. State Facility ID			
				H. State Facility Phone 970-545-5015			
11. Description of Waste Materials		12. Containers		13. Total Quantity		14. Unit Wt./Vol.	
		No. Type				I. Misc. Comments	
a. NON REGULATED SOLID - HYDROCARBON IMPACTED SOIL WM Profile # 132955CO							
b. WM Profile #							
c. WM Profile #							
d. WM Profile #							
J. Additional Descriptions for Materials Listed Above ACCT #: N 10443 NAME: GREAT WESTERN OIL AND GAS LLC		K. Disposal Location					
		Cell		Level			
		Grid					
15. Special Handling Instructions and Additional Information							
Purchase Order # EMERGENCY CONTACT / PHONE NO.: 1-800-424-9300 24HR TOLL FREE							
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.							
Printed Name Great Western Operating		Signature "On behalf of"		Month 3		Day 30	
				Year 22			
17. Transporter 1 Acknowledgement of Receipt of Materials		Printed Name Jaime Cepeda		Signature Jaime C.		Month 3	
						Day 30	
						Year 22	
18. Transporter 2 Acknowledgement of Receipt of Materials		Printed Name		Signature		Month	
						Day	
						Year	
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.							
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.							
Printed Name		Signature		Month 3		Day 30	
				Year 22			

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY      Blue- GENERATOR #2 COPY      Yellow- GENERATOR #1 COPY  
Pink- FACILITY USE ONLY      Gold- TRANSPORTER #1 COPY





# NON-HAZARDOUS MANIFEST

<b>NON-HAZARDOUS MANIFEST</b>		1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of	
3. Generator's Mailing Address:		Generator's Site Address (If different than mailing): GREAT WESTERN OPERATING CO LLC Heinze South Box 05-123-32191		A. Manifest Number WMNA	10366179
4. Generator's Phone 970-685-9619		B. State Generator's ID			
5. Transporter 1 Company Name AZ Transport #4		6. US EPA ID Number		C. State Transporter's ID	
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone	
9. Designated Facility Name and Site Address NORTH WELD LANDFILL 40000 WELD COUNTY RD 25 AULT CO 80610		10. US EPA ID Number		E. State Transporter's ID	
				F. Transporter's Phone	
				G. State Facility ID	
				H. State Facility Phone 970-545-5015	
GENERATOR	11. Description of Waste Materials		12. Containers		13. Total Quantity
	a. NON REGULATED SOLID - HYDROCARBON IMPACTED SOIL		No.	Type	14. Unit Wt./Vol.
	WM Profile # 132955CO				
	b.				
	WM Profile #				
TRANSPORTER	c.				
	WM Profile #				
	d.				
	WM Profile #				
J. Additional Descriptions for Materials Listed Above ACCT #: N 10443 NAME: GREAT WESTERN OIL AND GAS LLC			K. Disposal Location		
			Cell	Level	
			Grid		
15. Special Handling Instructions and Additional Information					
Purchase Order # EMERGENCY CONTACT / PHONE NO.: 1-800-424-9300 24HR TOLL FREE					
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.					
Printed Name Great Western Operating		Signature "On behalf of"		Month 3	Day 30
				Year 22	
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials				
	Printed Name Alex Hernandez	Signature Alex Hernandez	Month 3	Day 30	Year 22
TRANSPORTER	18. Transporter 2 Acknowledgement of Receipt of Materials				
	Printed Name	Signature	Month	Day	Year
FACILITY	19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.				
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.				
	Printed Name	Signature	Month 3	Day 30	Year 22

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Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY

Gold- TRANSPORTER #1 COPY



# NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No.		Manifest Doc No.		2. Page 1 of	
3. Generator's Mailing Address:		Generator's Site Address (if different than mailing): GREAT WESTERN OPERATING CO LLC Heinze South 05-123-32191		A. Manifest Number WMNA		10366180	
4. Generator's Phone 970-685-9619		5. Transporter 1 Company Name		6. US EPA ID Number		B. State Generator's ID	
7. Transporter 2 Company Name NORCO TRANSPORT # 77		8. US EPA ID Number		C. State Transporter's ID		D. Transporter's Phone	
9. Designated Facility Name and Site Address NORTH WELD LANDFILL 40000 WELD COUNTY RD 25 AULT CO 80610		10. US EPA ID Number		E. State Transporter's ID		F. Transporter's Phone	
11. Description of Waste Materials		12. Containers		13. Total Quantity		14. Unit Wt./Vol.	
a. NON REGULATED SOLID - HYDROCARBON IMPACTED SOIL WM Profile # 132955CO		No. Type				I. Misc. Comments	
b. WM Profile #							
c. WM Profile #							
d. WM Profile #							
J. Additional Descriptions for Materials Listed Above ACCT #: N 10443 NAME: GREAT WESTERN OIL AND GAS LLC		K. Disposal Location		Cell		Level	
15. Special Handling Instructions and Additional Information		Grid					
Purchase Order #		EMERGENCY CONTACT / PHONE NO.: 1-800-424-9300 24HR TOLL FREE					
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.		Printed Name Great Western Operating		Signature "On behalf of"		Month Day Year 3 30 22	
17. Transporter 1 Acknowledgement of Receipt of Materials		Printed Name		Signature		Month Day Year	
18. Transporter 2 Acknowledgement of Receipt of Materials		Printed Name Mario Fuentes		Signature		Month Day Year 3 30 22	
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.		20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.		Printed Name		Signature	
				Month Day Year 3 30 22			

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Gold - TRANSPORTER #1 COPY

Yellow - GENERATOR #1 COPY



# NON-HAZARDOUS MANIFEST

<b>NON-HAZARDOUS MANIFEST</b>		1. Generator's US EPA ID No.		Manifest Doc No.		2. Page 1 of	
3. Generator's Mailing Address:		Generator's Site Address (If different than mailing): GREAT WESTERN OPERATING CO LLC Heinze South 05-123-32191		A. Manifest Number WMNA		10366178	
4. Generator's Phone 970-685-9619		5. Transporter 1 Company Name Nonco Transport #12		6. US EPA ID Number		B. State Generator's ID	
7. Transporter 2 Company Name		8. US EPA ID Number		C. State Transporter's ID		D. Transporter's Phone	
9. Designated Facility Name and Site Address NORTH WELD LANDFILL 40000 WELD COUNTY RD 25 AULT CO 80610		10. US EPA ID Number		E. State Transporter's ID		F. Transporter's Phone	
				G. State Facility ID		H. State Facility Phone 970-545-5015	
11. Description of Waste Materials		12. Containers		13. Total Quantity		14. Unit Wt./Vol.	
		No. Type				I. Misc. Comments	
a. NON REGULATED SOLID - HYDROCARBON IMPACTED SOIL WM Profile # 132955CO							
b. WM Profile #							
c. WM Profile #							
d. WM Profile #							
J. Additional Descriptions for Materials Listed Above ACCT #: N 10443 NAME: GREAT WESTERN OIL AND GAS LLC		K. Disposal Location					
		Cell		Level			
		Grid					
15. Special Handling Instructions and Additional Information							
Purchase Order #		EMERGENCY CONTACT / PHONE NO.:		1-800-424-9300 24HR TOLL FREE			
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.		Printed Name Great Western Operating		Signature "On behalf of"		Month Day Year 3 30 22	
17. Transporter 1 Acknowledgement of Receipt of Materials		Printed Name		Signature		Month Day Year	
18. Transporter 2 Acknowledgement of Receipt of Materials		Printed Name Jose		Signature		Month Day Year 3 30 22	
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.							
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.		Printed Name		Signature		Month Day Year 3 30 22	

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY

Pink- FACILITY USE ONLY

Blue- GENERATOR #2 COPY

Gold- TRANSPORTER #1 COPY

Yellow- GENERATOR #1 COPY



# NON-HAZARDOUS MANIFEST

<b>NON-HAZARDOUS MANIFEST</b>		1. Generator's US EPA ID No.		Manifest Doc No.		2. Page 1 of				
3. Generator's Mailing Address:		Generator's Site Address (If different than mailing): GREAT WESTERN OPERATING CO LLC Heinze South 05-123-32191		A. Manifest Number WMNA		10366177				
4. Generator's Phone 970-685-9619		5. Transporter 1 Company Name Norco #4		6. US EPA ID Number		B. State Generator's ID				
7. Transporter 2 Company Name		8. US EPA ID Number		C. State Transporter's ID		D. Transporter's Phone				
9. Designated Facility Name and Site Address NORTH WELD LANDFILL 40000 WELD COUNTY RD 25 AULT CO 80610		10. US EPA ID Number		E. State Transporter's ID		F. Transporter's Phone				
				G. State Facility ID		H. State Facility Phone 970-545-5015				
11. Description of Waste Materials		12. Containers		13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments				
		No.	Type							
		a. NON REGULATED SOLID - HYDROCARBON IMPACTED SOIL								
		WM Profile # 132955CO								
		b.								
		WM Profile #								
		c.								
		WM Profile #								
		d.								
		WM Profile #								
J. Additional Descriptions for Materials Listed Above ACCT # : N 10443 NAME: GREAT WESTERN OIL AND GAS LLC		K. Disposal Location								
		Cell		Level						
		Grid								
15. Special Handling Instructions and Additional Information										
Purchase Order #				EMERGENCY CONTACT / PHONE NO.: 1-800-424-9300 24HR TOLL FREE						
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.										
Printed Name Great Western Operating		Signature "On behalf of"				Month 3	Day 30	Year 22		
17. Transporter 1 Acknowledgement of Receipt of Materials		Printed Name Alex Lego				Signature A.L.		Month 3	Day 30	Year 22
18. Transporter 2 Acknowledgement of Receipt of Materials		Printed Name				Signature		Month	Day	Year
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.										
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.		Printed Name				Signature		Month 3	Day 30	Year 22

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY      Blue- GENERATOR #2 COPY      Yellow- GENERATOR #1 COPY  
Pink- FACILITY USE ONLY      Gold- TRANSPORTER #1 COPY





# NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No.		Manifest Doc No.		2. Page 1 of	
3. Generator's Mailing Address:		Generator's Site Address (if different than mailing): GREAT WESTERN OPERATING CO LLC Heinze South 05-123-32191		A. Manifest Number WMNA		10366176	
4. Generator's Phone 970-685-9619		5. Transporter 1 Company Name Norco Transpro #5		6. US EPA ID Number		B. State Generator's ID	
7. Transporter 2 Company Name		8. US EPA ID Number		C. State Transporter's ID		D. Transporter's Phone	
9. Designated Facility Name and Site Address NORTH WELD LANDFILL 40000 WELD COUNTY RD 25 AULT CO 80610		10. US EPA ID Number		E. State Transporter's ID		F. Transporter's Phone	
				G. State Facility ID		H. State Facility Phone 970-545-5015	
11. Description of Waste Materials		12. Containers		13. Total Quantity		14. Unit Wt./Vol.	
		No. Type				I. Misc. Comments	
a. NON REGULATED SOLID - HYDROCARBON IMPACTED SOIL WM Profile # 132955CO							
b. WM Profile #							
c. WM Profile #							
d. WM Profile #							
J. Additional Descriptions for Materials Listed Above ACCT #: N 10443 NAME: GREAT WESTERN OIL AND GAS LLC		K. Disposal Location		Cell		Level	
				Grid			
15. Special Handling Instructions and Additional Information							
Purchase Order # EMERGENCY CONTACT / PHONE NO.: 1-800-424-9300 24HR TOLL FREE							
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.							
Printed Name Great Western Operating		Signature "On behalf of"		Month 3		Day 30	
				Year 22			
17. Transporter 1 Acknowledgement of Receipt of Materials		Printed Name Enrique Garcia		Signature		Month 3	
						Day 30	
						Year 22	
18. Transporter 2 Acknowledgement of Receipt of Materials		Printed Name		Signature		Month	
						Day	
						Year	
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.							
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.							
Printed Name BSC		Signature		Month 3		Day 30	
				Year 22			
White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Pink- FACILITY USE ONLY Blue- GENERATOR #2 COPY Gold- TRANSPORTER #1 COPY Yellow- GENERATOR #1 COPY							



# NON-HAZARDOUS MANIFEST

<b>NON-HAZARDOUS MANIFEST</b>		1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of	
3. Generator's Mailing Address:		Generator's Site Address (if different than mailing): GREAT WESTERN OPERATING CO LLC Heinze South 05-123-32191		A. Manifest Number WMNA	10366175
4. Generator's Phone 970-685-9619		B. State Generator's ID			
5. Transporter 1 Company Name		6. US EPA ID Number		C. State Transporter's ID	
7. Transporter 2 Company Name Norco Transport 44		8. US EPA ID Number		D. Transporter's Phone	
9. Designated Facility Name and Site Address NORTH WELD LANDFILL 40000 WELD COUNTY RD 25 AULT CO 80610		10. US EPA ID Number		E. State Transporter's ID	
				F. Transporter's Phone	
				G. State Facility ID	
				H. State Facility Phone 970-545-5015	
11. Description of Waste Materials		12. Containers		13. Total Quantity	14. Unit Wt./Vol.
		No.	Type		
a. NON REGULATED SOLID - HYDROCARBON IMPACTED SOIL WM Profile # 132955CO					
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					
J. Additional Descriptions for Materials Listed Above ACCT #: N 10443 NAME: GREAT WESTERN OIL AND GAS LLC		K. Disposal Location			
		Cell		Level	
		Grid			
15. Special Handling Instructions and Additional Information					
Purchase Order #		EMERGENCY CONTACT / PHONE NO.: 1-800-424-9300 24HR TOLL FREE			
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.					
Printed Name Great Western Operating		Signature "On behalf of"		Month	Day
				Year	
17. Transporter 1 Acknowledgement of Receipt of Materials		Signature		Month	Day
Printed Name Jaime Cepeda		Jaime C.		3	30
				22	
18. Transporter 2 Acknowledgement of Receipt of Materials		Signature		Month	Day
Printed Name					
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.					
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.					
Printed Name Robert L...		Signature		Month	Day
				3	30
				22	
White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY		Blue- GENERATOR #2 COPY		Yellow- GENERATOR #1 COPY	
Pink- FACILITY USE ONLY		Gold- TRANSPORTER #1 COPY			



# NON-HAZARDOUS MANIFEST

<b>NON-HAZARDOUS MANIFEST</b>		1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of
3. Generator's Mailing Address:		Generator's Site Address (if different than mailing): GREAT WESTERN OPERATING CO LLC Heinze South		A. Manifest Number WMNA 10366174
4. Generator's Phone 970-685-9619		B. State Generator's ID		
5. Transporter 1 Company Name AZ Transport #4		6. US EPA ID Number		C. State Transporter's ID
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone
9. Designated Facility Name and Site Address NORTH WELD LANDFILL 40000 WELD COUNTY RD 25 AULT CO 80610		10. US EPA ID Number		E. State Transporter's ID
				F. Transporter's Phone
				G. State Facility ID
				H. State Facility Phone 970-545-5015
11. Description of Waste Materials		12. Containers	13. Total Quantity	14. Unit Wt./Vol.
a. NON REGULATED SOLID - HYDROCARBON IMPACTED SOIL		No. Type		I. Misc. Comments
WM Profile # 132955CO				
b.				
WM Profile #				
c.				
WM Profile #				
d.				
WM Profile #				
J. Additional Descriptions for Materials Listed Above ACCT #: N 10443 NAME: GREAT WESTERN OIL AND GAS LLC		K. Disposal Location		
		Cell	Level	
		Grid		
15. Special Handling Instructions and Additional Information				
Purchase Order # EMERGENCY CONTACT / PHONE NO.: 1-800-424-9300 24HR TOLL FREE				
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.				
Printed Name Great Western Operating		Signature "On behalf of"		Month Day Year
17. Transporter 1 Acknowledgement of Receipt of Materials		Printed Name Alex Hernandez		Signature Alex Hernandez
		Month Day Year		
18. Transporter 2 Acknowledgement of Receipt of Materials		Printed Name		Signature
		Month Day Year		
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.				
20. Facility Owner or Operator. Certification of receipt of non-hazardous materials covered by this manifest.				
Printed Name Robert L. Lauer		Signature		Month Day Year
				3 30 22

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY

Blue- GENERATOR #2 COPY

Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY

Gold- TRANSPORTER #1 COPY



# NON-HAZARDOUS MANIFEST

<b>NON-HAZARDOUS MANIFEST</b>		1. Generator's US EPA ID No.		Manifest Doc No.		2. Page 1 of			
3. Generator's Mailing Address:		Generator's Site Address (if different than mailing): GREAT WESTERN OPERATING CO LLC Heinze South 05-123-32191		A. Manifest Number WMNA		10366172			
4. Generator's Phone 970-685-9619				B. State Generator's ID					
5. Transporter 1 Company Name VORCO Transport #12		6. US EPA ID Number		C. State Transporter's ID					
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone					
9. Designated Facility Name and Site Address NORTH WELD LANDFILL 40000 WELD COUNTY RD 25 AULT CO 80610		10. US EPA ID Number		E. State Transporter's ID					
				F. Transporter's Phone					
				G. State Facility ID					
				H. State Facility Phone 970-545-5015					
GENERATOR	11. Description of Waste Materials		12. Containers		13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments		
	a. NON REGULATED SOLID - HYDROCARBON IMPACTED SOIL		No.	Type					
	WM Profile # 132955CO								
	b.								
	WM Profile #								
TRANSPORTER	c.								
	WM Profile #								
	d.								
	WM Profile #								
FACILITY	J. Additional Descriptions for Materials Listed Above ACCT # : N 10443 NAME: GREAT WESTERN OIL AND GAS LLC		K. Disposal Location						
			Cell		Level				
			Grid						
15. Special Handling Instructions and Additional Information									
Purchase Order #		EMERGENCY CONTACT / PHONE NO.: 1-800-424-9300 24HR TOLL FREE							
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.									
Printed Name Great Western Operating		Signature "On behalf of"				Month	Day	Year	
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials		Printed Name		Signature		Month	Day	Year
FACILITY	18. Transporter 2 Acknowledgement of Receipt of Materials		Printed Name JOS C		Signature		Month	Day	Year
							5	30	22
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.									
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.									
Printed Name Robert...		Signature				Month	Day	Year	
						3	30	22	

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY

Blue- GENERATOR #2 COPY

Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY

Gold- TRANSPORTER #1 COPY





# NON-HAZARDOUS MANIFEST

<b>NON-HAZARDOUS MANIFEST</b>		1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of
3. Generator's Mailing Address:		Generator's Site Address (if different than mailing): GREAT WESTERN OPERATING CO LLC Great Western Heinze South 05-123-32191		A. Manifest Number WMNA 10366173
4. Generator's Phone 970-685-9619		B. State Generator's ID		
5. Transporter 1 Company Name		6. US EPA ID Number	C. State Transporter's ID	
7. Transporter 2 Company Name Norco Transport #77		8. US EPA ID Number	D. Transporter's Phone	
9. Designated Facility Name and Site Address NORTH WELD LANDFILL 40000 WELD COUNTY RD 25 AULT CO 80610		10. US EPA ID Number	E. State Transporter's ID	
			F. Transporter's Phone	
			G. State Facility ID	
			H. State Facility Phone 970-545-5015	
11. Description of Waste Materials		12. Containers	13. Total Quantity	14. Unit Wt./Vol.
a. NON REGULATED SOLID - HYDROCARBON IMPACTED SOIL		No. Type		
WM Profile # 132955CO				
b.				
WM Profile #				
c.				
WM Profile #				
d.				
WM Profile #				
J. Additional Descriptions for Materials Listed Above ACCT # : N 10443 NAME: GREAT WESTERN OIL AND GAS LLC		K. Disposal Location		
		Cell	Level	
		Grid		
15. Special Handling Instructions and Additional Information				
Purchase Order # EMERGENCY CONTACT / PHONE NO.: 1-800-424-9300 24HR TOLL FREE				
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.				
Printed Name Great Western Operating		Signature "On behalf of"		Month Day Year
17. Transporter 1 Acknowledgement of Receipt of Materials		Month Day Year		
Printed Name		Signature		Month Day Year
18. Transporter 2 Acknowledgement of Receipt of Materials		Month Day Year		
Printed Name Mario Fuentes		Signature MA Fuentes		Month Day Year 3 30 22
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.				
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.				
Printed Name Robert L. Janner		Signature		Month Day Year 3 30 22

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY  
Pink- FACILITY USE ONLY  
Blue- GENERATOR #2 COPY  
Gold- TRANSPORTER #1 COPY  
Yellow- GENERATOR #1 COPY



# NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No.	Manifest Doc No.		2. Page 1 of	
3. Generator's Mailing Address:		Generator's Site Address (if different than mailing): GREAT WESTERN OPERATING CO LLC Heinze South 05-123-32191		A. Manifest Number WMNA 10366171		
4. Generator's Phone 970-685-9619		6. US EPA ID Number		B. State Generator's ID		
5. Transporter 1 Company Name NORCO Transports		8. US EPA ID Number		C. State Transporter's ID		
7. Transporter 2 Company Name		10. US EPA ID Number		D. Transporter's Phone		
9. Designated Facility Name and Site Address NORTH WELD LANDFILL 40000 WELD COUNTY RD 25 AULT CO 80610				E. State Transporter's ID		
				F. Transporter's Phone		
				G. State Facility ID		
				H. State Facility Phone 970-545-5015		
11. Description of Waste Materials		12. Containers		13. Total Quantity		
		No. Type		14. Unit Wt./Vol.		
a. NON REGULATED SOLID - HYDROCARBON IMPACTED SOIL				I. Misc. Comments		
WM Profile # 132955CO						
b.						
WM Profile #						
c.						
WM Profile #						
d.						
WM Profile #						
J. Additional Descriptions for Materials Listed Above ACCT #: N 10443 NAME: GREAT WESTERN OIL AND GAS LLC		K. Disposal Location				
		Cell		Level		
		Grid				
15. Special Handling Instructions and Additional Information						
Purchase Order # EMERGENCY CONTACT / PHONE NO.: 1-800-424-9300 24HR TOLL FREE						
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.						
Printed Name Great Western Operating		Signature "On behalf of"		Month 3	Day 30	
				Year 22		
17. Transporter 1 Acknowledgement of Receipt of Materials						
Printed Name Enrique Garcia		Signature		Month 3	Day 30	
				Year 22		
18. Transporter 2 Acknowledgement of Receipt of Materials						
Printed Name		Signature		Month	Day	
				Year		
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.						
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.						
Printed Name BSS		Signature BSS		Month 3	Day 30	
				Year 22		

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY      Blue- GENERATOR #2 COPY      Yellow- GENERATOR #1 COPY  
Pink- FACILITY USE ONLY      Gold- TRANSPORTER #1 COPY



# NON-HAZARDOUS MANIFEST

<b>NON-HAZARDOUS MANIFEST</b>		1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of	
3. Generator's Mailing Address:		Generator's Site Address (if different than mailing): GREAT WESTERN OPERATING CO LLC Heinze South 05-123-32191		A. Manifest Number WMNA	10366170
4. Generator's Phone 970-685-9619		B. State Generator's ID			
5. Transporter 1 Company Name		6. US EPA ID Number		C. State Transporter's ID	
7. Transporter 2 Company Name Noro Transport 44		8. US EPA ID Number		D. Transporter's Phone	
9. Designated Facility Name and Site Address NORTH WELD LANDFILL 40000 WELD COUNTY RD 25 AULT CO 80610		10. US EPA ID Number		E. State Transporter's ID	
				F. Transporter's Phone	
				G. State Facility ID	
				H. State Facility Phone 970-545-5015	
11. Description of Waste Materials		12. Containers		13. Total Quantity	14. Unit Wt./Vol.
		No.	Type		
a. NON REGULATED SOLID - HYDROCARBON IMPACTED SOIL					
WM Profile # 132955CO					
b.					
WM Profile #					
c.					
WM Profile #					
d.					
WM Profile #					
J. Additional Descriptions for Materials Listed Above ACCT # : N 10443 NAME: GREAT WESTERN OIL AND GAS LLC		K. Disposal Location			
		Cell		Level	
		Grid			
15. Special Handling Instructions and Additional Information					
Purchase Order # EMERGENCY CONTACT / PHONE NO.: 1-800-424-9300 24HR TOLL FREE					
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.					
Printed Name Great Western operating		Signature "On behalf of"		Month 3	Day 30
				Year 22	
17. Transporter 1 Acknowledgement of Receipt of Materials					
Printed Name Jaime Cepeda		Signature Jaime C		Month 3	Day 30
				Year 22	
18. Transporter 2 Acknowledgement of Receipt of Materials					
Printed Name		Signature		Month	Day
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.					
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.					
Printed Name		Signature		Month 3	Day 30
				Year 22	

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY

Blue- GENERATOR #2 COPY

Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY

Gold- TRANSPORTER #1 COPY



# NON-HAZARDOUS MANIFEST

<b>NON-HAZARDOUS MANIFEST</b>		1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of
3. Generator's Mailing Address:		Generator's Site Address (If different than mailing): GREAT WESTERN OPERATING CO LLC Heinze south 05-123-32191		A. Manifest Number WMNA 10366117
4. Generator's Phone 970-685-9619		B. State Generator's ID		
5. Transporter 1 Company Name #5 Norco Transpro		6. US EPA ID Number	C. State Transporter's ID	
7. Transporter 2 Company Name		8. US EPA ID Number	D. Transporter's Phone	
9. Designated Facility Name and Site Address NORTH WELD LANDFILL 40000 WELD COUNTY RD 25 AULT CO 80610		10. US EPA ID Number	E. State Transporter's ID	
			F. Transporter's Phone	
			G. State Facility ID	
			H. State Facility Phone 970-545-5015	
11. Description of Waste Materials		12. Containers		13. Total Quantity
		No.	Type	
a. NON REGULATED SOLID - HYDROCARBON IMPACTED SOIL WM Profile # 132955CO				14. Unit Wt./Vol.
b. WM Profile #				
c. WM Profile #				I. Misc. Comments
d. WM Profile #				
J. Additional Descriptions for Materials Listed Above ACCT #: N 10443 NAME: GREAT WESTERN OIL AND GAS LLC		K. Disposal Location		
		Cell	Level	
		Grid		
15. Special Handling Instructions and Additional Information				
Purchase Order # EMERGENCY CONTACT / PHONE NO.: 1-800-424-9300 24HR TOLL FREE				
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.				
Printed Name Great Western Operating		Signature "On behalf of"		Month Day Year 3 30 22
17. Transporter 1 Acknowledgement of Receipt of Materials		Signature		Month Day Year 3 30 22
Printed Name Enrique Garcia		Signature		Month Day Year 3 30 22
18. Transporter 2 Acknowledgement of Receipt of Materials		Signature		Month Day Year
Printed Name		Signature		Month Day Year
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.				
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.				
Printed Name		Signature		Month Day Year 3 30 22
B		B		

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY  
Pink- FACILITY USE ONLY  
Blue- GENERATOR #2 COPY  
Gold- TRANSPORTER #1 COPY  
Yellow- GENERATOR #1 COPY





# INVOICE

**Customer ID:****11-01707-63008**

Customer Name:

GREAT WESTERN OPERATING LLC

Service Period:

03/01/22-03/31/22

Invoice Date:

04/01/2022

Invoice Number:

0013397-2516-8

**How To Contact Us**

Visit [wm.com](http://wm.com) to sign up for paperless billing or pay your invoices.

Visit [wmsolutions.com](http://wmsolutions.com) to manage your waste streams and access additional disposal documentation.



Customer Service:  
**(720) 977-2102**

**Your Payment Is Due****05/15/2022**

If full payment of the invoiced amount is not received within your contractual terms, you may be charged a monthly late charge of 2.5% of the unpaid amount, with a minimum monthly charge of \$5, or such late charge allowed under applicable law, regulation or contract.

**Your Total Due****\$970.60****Previous Balance**

444.07

+

**Payments**

(444.07)

+

**Adjustments**

0.00

+

**Current Invoice Charges**

970.60

=

**Total Account Balance Due****970.60****DETAILS OF SERVICE****Details for Service Location:**

Great Western Oil And Gas Llc, 1700 Broadway 650, Denver CO  
80290-1723

**Customer ID: 11-01707-63008**

Description	Date	Ticket	Quantity	Unit of Measure	Rate	Amount
Vehicle#: 4	03/30/22	1158131				0.00
PO#:Heinze South						0.00
Cont. Soil - Petroleum			24.61	TON	26.57	653.89
Haz-Substance Response Fee Cont. Soil						6.64
Fuel Surcharge - Landfill			1.00	PCT	12.72	83.17
Standard Environmental Fee - Percent (Landfill)			1.00	PCT	20.00	130.78
Regulatory Cost Recovery			1.00	PCT	3.60	23.54
Waste Water Management - Percent (Landfill)			1.00	PCT	11.10	72.58
Profile # 112504CO						0.00
Generator GREAT WESTERN OPERATING CO VARIOUS						0.00
Manifest#: 8933550						0.00



----- Please detach and send the lower portion with payment ----- (no cash or staples) -----



WASTE MANAGEMENT OF COLORADO, INC.  
BUFFALO RIDGE LANDFILL  
PO BOX 43350  
PHOENIX, AZ 85080  
(720) 977-2102  
(970) 686-2800 TICKET COPIES

**Invoice Date**

04/01/2022

**Invoice Number**

0013397-2516-8

**Customer ID**

(Include with your payment)

**11-01707-63008****Payment Terms**

Total Due by 05/15/2022

**Total Due**

\$970.60

**Amount**

2516000110170763008000133970000009706000000097060 7

10306L19

GREAT WESTERN OPERATING LLC  
7780 E 96TH AVE  
KRIS MARTINEZ  
COMMERCE CITY CO 80640-8534

Remit To: WM CORPORATE SERVICES, INC.  
AS PAYMENT AGENT  
PO BOX 7400  
PASADENA, CA 91109-7400

**THINK GREEN.**

## DETAILS OF SERVICE - continued

**Details for Service Location:**

**Great Western Oil And Gas LLC, 1700 Broadway 650, Denver CO 80290-1723**

**Customer ID: 11-01707-63008**

Description	Date	Ticket	Quantity	Unit of Measure	Rate	Amount
<b>Ticket Total</b>						<b>970.60</b>
<b>Total Current Charges</b>						<b>970.60</b>

### 5 EASY WAYS TO PAY


**Automatic Payment**

Set up recurring payments with us at [wm.com/myaccount](http://wm.com/myaccount).


**Pay Through Your Financial Institution**

Make a payment from your financial institution using your Customer ID.


**One-Time Payment**

At your desk or on the go, use [wm.com](http://wm.com) or our WM mobile app for a quick and easy payment.


**Pay by Phone**

Payable 24/7 using our automated system at 866-964-2729.


**Mail it**

Write it, stuff it, stamp it, mail it. Envelope provided.

### HOW TO READ YOUR INVOICE

</

**1**

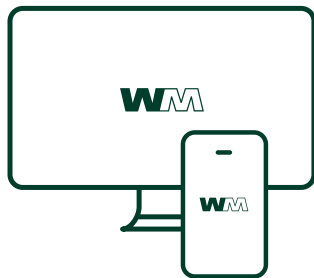
States the date payment is due to Waste Management. Anything beyond that date may incur additional charges. Your **Total Due** is the total amount of current charges and any previous unpaid balances combined.

**2**

Previous balance is the total due from your previous invoice. We subtract any **Payments Received/Adjustments** and add your **Current Charges** from this billing cycle to get a **Total Due** on this invoice. If you have not paid all or a portion of your previous balance, please pay the entire **Total Due** to avoid a late charge or service interruption.

**3**

Service location details the total current charges of this invoice.



## Get More with My WM

Create a My WM profile to enroll in AutoPay & Paperless Billing, manage your services, view your pickup schedule and see your pickup ETA, all in one place.



**Scan the QR code to get started today!**

If your service is suspended for non-payment, you may be charged a Resume charge to restart your service. For each returned check, a charge will be assessed on your next invoice equal to the maximum amount permitted by applicable state law.

#### ■ CHECK HERE TO CHANGE CONTACT INFO

List your new billing information below. For a change of service address, please contact Waste Management.

Address 1	
Address 2	
City	
State	
Zip	
Email	
Date Valid	

#### ■ CHECK HERE TO SIGN UP FOR AUTOMATIC PAYMENT ENROLLMENT

If I enroll in Automatic Payment services, I authorize Waste Management to pay my invoice by electronically deducting money from my bank account. I can cancel authorization by notifying Waste Management at [wm.com](http://wm.com) or by calling the customer service number listed on my invoice. Your enrollment could take 1-2 billing cycles for Automatic Payments to take effect. Continue to submit payment until page one of your invoice reflects that your payment will be deducted.

Email Address	
Date	
Bank Account Holder Signature	

**NOTICE:** By sending your check, you are authorizing the Company to use information on your check to make a one-time electronic debit to your account at the financial institution indicated on your check. The electronic debit will be for the amount of your check and may occur as soon as the same day we receive your check.

In order for us to service your account or to collect any amounts you may owe (for non-marketing or solicitation purposes), we may contact you by telephone at any telephone number that you provided in connection with your account, including wireless telephone numbers, which could result in charges to you. Methods of contact may include text messages and using pre-recorded/artificial voice messages and/or use of an automatic dialing device, as applicable. We may also contact you by email or other methods as provided in our contract.

Please send all bankruptcy correspondence to [RMCbankruptcy@wm.com](mailto:RMCbankruptcy@wm.com) or PO Box 43290 Phoenix, AZ 85080. Using the email option will expedite your request. (this language is in compliance with 11 USC 342(c)(2) of the Bankruptcy Code)



Buffalo Ridge  
11655 CR 59  
Keenesburg, CO, 80643  
Ph: (303) 732-0218

Reprint  
Ticket# 1158131

Customer Name GREATWESTERNOILANDGASLLC GREA Carrier NORCO TRANSPORT  
Ticket Date 03/30/2022 Vehicle# 4 Volume  
Payment Type Credit Account Container  
Manual Ticket# Driver  
Hauling Ticket# Check#  
Route Billing # 0000279  
State Waste Code Gen EPA ID  
Manifest 8933550  
Destination Grid  
PO Heinze South  
Profile 112504CO (PETROLEUM IMPACTED SOILS)  
Generator 125-GREATWESTERNOOPERATINGCO GREAT WESTERN OPERATING CO VARIOUS

	Time	Scale	Operator	Inbound	Gross	80060 lb
In	03/30/2022 08:52:44	Inbound	aconner6		Tare	30840 lb
Out	03/30/2022 08:52:44		aconner6		Net	49220 lb
					Tons	24.61

Comments

Hours: M-F 7AM-4PM, Sat: 8AM-1PM

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 Cont Soil Pet-Tons	100	24.61	Tons				VARIOUS GW
2 FUEL-Fuel Surcharge	100		%				VARIOUS GW
3 EVF-P-Standard Env	100		%				VARIOUS GW
4 RCR-P-Regulatory C	100		%				VARIOUS GW
5 WWM-P-Waste Water	100		%				VARIOUS GW

Total Tax  
Total Ticket

Driver's Signature

Alex



# NON-HAZARDOUS MANIFEST

<b>NON-HAZARDOUS MANIFEST</b>		1. Generator's US EPA ID No.		Manifest Doc No.		2. Page 1 of	
3. Generator's Mailing Address: GREAT WESTERN OIL & GAS 4093 SPECIALTY PL LONGMONT, CO 80504		Generator's Site Address (if different than mailing): GREAT WESTERN OIL & GAS WELL NAME: AFE/WELL #: <i>Heinze South</i>		A. Manifest Number <b>WMNA</b>		8933550	
4. Generator's Phone 970-685-9619				B. State Generator's ID			
5. Transporter 1 Company Name <i>Norco #4</i>		6. US EPA ID Number		C. State Transporter's ID		D. Transporter's Phone 720-425-1783	
7. Transporter 2 Company Name		8. US EPA ID Number		E. State Transporter's ID		F. Transporter's Phone	
9. Designated Facility Name and Site Address BUFFALO RIDGE LANDFILL 11655 WCR 59 KEENESBURG, CO 80643		10. US EPA ID Number		G. State Facility ID		H. State Facility Phone 303-732-0218	
11. Description of Waste Materials		12. Containers		13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments	
		No.	Type				
		a. NON REGULATED LIQUID - HYDROCARBON IMPACTED SOIL					
		WM Profile # 112504CO					
		b. <i>WM Profile #</i>					
c. <i>WM Profile #</i>		d. <i>WM Profile #</i>		J. Additional Descriptions for Materials Listed Above ACCOUNT: BR 279 GREAT WESTERN OIL & GAS		K. Disposal Location	
15. Special Handling Instructions and Additional Information		Cell		Level		Grid	
Purchase Order #		EMERGENCY CONTACT / PHONE NO.: 1-800-424-9300 24HR TOLL FREE					
16. GENERATOR'S CERTIFICATE: I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.							
Printed Name <i>Great Western Oil &amp; Gas</i>		Signature "On behalf of" <i>John Logan</i>		Month		Day Year	
17. Transporter 1 Acknowledgement of Receipt of Materials		Printed Name		Signature		Month Day Year	
18. Transporter 2 Acknowledgement of Receipt of Materials		Printed Name <i>Alax Lygo</i>		Signature <i>A-L</i>		Month Day Year	
19. Certificate of Final Treatment/Disposal		I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.		3		30 22	
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.		Printed Name <i>Alconner</i>		Signature <i>A</i>		Month Day Year	
				3		30 22	

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY

Blue- GENERATOR #2 COPY

Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY

Gold- TRANSPORTER #1 COPY



Brand X Hydrovac Services Inc.

Remit To  
TCI Business Capital  
PO Box 9149  
Minneapolis, MN 55480-9149

# Invoice

Date	Invoice #
4/20/2022	28494

Bill To
Great Western Operating Company, LLC 1001 17th Street, Suite 2000 Denver, CO 80202

P.O. No.	Terms	Project
	Net 30	

Quantity	Description	Rate	Amount
7	Hydrovac Service #104	200.00	1,400.00
	Clean up water		
1	Fuel Surcharge	140.00	140.00
1	Disposal Fee	779.00	779.00
1	Disposal Fee	1,146.00	1,146.00
9	Hydrovac Service #110	200.00	1,800.00
	Clean up water		
1	Fuel Surcharge	180.00	180.00
1	Disposal Fee	1,100.00	1,100.00
1	Disposal Fee	1,146.00	1,146.00
8	Hydrovac Service #113	200.00	1,600.00
	Clean up water		
1	Fuel Surcharge	160.00	160.00
1	Disposal Fee	1,092.00	1,092.00
1	Disposal Fee	1,070.00	1,070.00
	Heinz 1		
<p><b>NOTICE OF ASSIGNMENT</b> All of the Accounts Receivable of the above firm have been sold and assigned to TCI Business Capital, a division of Fidelity Bank. This is an irrevocable directive and fulfills our requirements under Article 9 of the Uniform Commercial Code. If there are any disputes, shortages, or discrepancies of any kind call TCI immediately at 1-800-881-9589. <b>FORWARD ALL PAYMENTS TO:</b> TCI Business Capital PO Box 9149 Minneapolis, MN 55480-9149</p>			
<b>Total</b>			\$11,613.00



P.O. Box 1199  
Silt, CO 81652

Date: 04/18/2022
Cost Center: Heinze South P&A
Coding: 8600.412
Authorized By: Steven Lambert

IP REPORT 28494

DATE: 4/11/22 UNIT #: 104/110/113  
COMPANY'S NAME: Creatures from OPERATOR'S AREA: A.F.E. #:  
COMPANY'S ADDRESS: OPERATOR'S NAME: Darrin Kuehne JOB #:  
manual/Arcon P.O. #:  
JOBSITE LOCATION: Heinz #1 Dugan/manual P.O. #:

	SPECIFIC JOB DESCRIPTION	HOURS	RATE	TOTAL
104	Hydronic w/2 operators	7	200.00	1400 <sup>00</sup>
	Fuel Surcharge 10% (1400 <sup>00</sup> )	1		140 <sup>00</sup>
	water	0	0	0
	Disposal fee w/ Brandt manifest	1 #75806		779.00
		1 #75808		1146.00
110	Hydronic w/2 operators	9	200.00	1800 <sup>00</sup>
	Fuel Surcharge 10% (1800 <sup>00</sup> )	1		180 <sup>00</sup>
	water	0	0	0
	Disposal fee w/ Brandt manifest	1 #75805		1100.00
	DISPOSAL FEE w/ BRANDT MANIFEST	1 #14280		1146.00
113	Hydronic w/2 operators	8	200.00	1600 <sup>00</sup>
	Fuel Surcharge 10% (1600 <sup>00</sup> )	1		160 <sup>00</sup>
	water	0	0	0
	Disposal fee w/ Brandt manifest	1 #75804		1092.00
	DISPOSAL FEE w/ BRANDT MANIFEST	1 #144229		1070.00
	Clap CONTAMINATION UNIT			
	Have 6 Loads of DUMMIES			
	TO APPROVE "BRANDT"			
	MANIFEST			
	Requested By: Steve Lambert			

Payment terms are net 30 days, any unpaid balances are subject to a 10% late fee, maximum interest allowed by law, collection fees and any and all court costs and legal fees.

APPROVED \_\_\_\_\_  
(Client Representative) SIGNATURE

Is a Safety Incident Report  
required for this job? Y N

SUB TOTAL

SALES TAX

CONTACT NAME \_\_\_\_\_  
(Client Representative) PLEASE PRINT

CONTACT PHONE NUMBER \_\_\_\_\_

TOTAL 11,613.00

PLEASE PAY FROM INVOICE TO FOLLOW

# PAWNEE WASTE LLC

47368 County Road 118  
Grover, CO 80729

## SCALE TICKET

Customer ID: 1029  
Customer: Brand X Hydrovac Services  
PO Box 1199  
Silt, CO 81652

WTE	TICKET	CRD	WEIGHT
PW	4698	A Liquid	Kendra D

DATE IN	TIME IN	VEHICLE	ROLL OFF
04/11/2022	12:48 PM	104	None

JOB NUMBER	MANIFEST
1375	Manifest #75808

Job: HEINZ #1  
Generator: BRANDX HYDROVACS

Ticket: 28494

DESCRIPTION	QTY	UNIT	PRICE	NET AMOUNT	TAX/FEES	AMOUNT DUE
Exempt Production Liquid - Barrel	47.72	Barrel	\$	\$	\$	\$
			TOTALS	\$	\$	\$ 1146.00

Vehicle: 104 - Brand X Hydrovac Services, HydroVac

PAYMENT TYPE
On Account

47368 County Road 118  
Grever, CO 80729

## SCALE TICKET

Customer ID: 1029  
Customer: Brand X Hydrovac Services  
PO Box 1199  
Silt, CO 81652

Ticket: 28494

Job: HEINZ #1  
Generator: BRANDX HYDROVACS

ONE	TWO	THREE	FOUR
PW	4693	A Liquid	Kendra D

DATE IN	TIME IN	WELFARE	STATE OF
04/11/2022	12:24 PM	110	None

1375	Manifest #144230
------	------------------

DESCRIPTION	QTY	UNIT	RATE	NET AMOUNT	TAXES/FEE'S	TOTAL DUE
Exempt Production Liquid - Barrel	47.72	Barrel	\$	\$	\$	\$
			TOTALS:	\$	\$	\$ 114.20

Vehicle: 110 - Brand X Hydrovac Services, Hydrovac

On Account



# PAWNEE WASTE LLC

47368 County Road 118  
Grover, CO 80729

## SCALE TICKET

Customer ID: 1029  
Customer: Brand X Hydrovac Services  
PO Box 1199  
Silt, CO 81652

TYPE	TICKET #	CONTENT	WEIGHT
PW	4691	A Liquid	Kendra D

DATE IN	TIME IN	VEHICLE	ROLL
04/11/2022	12:18 PM	113	None

JOB NUMBER	MANIFEST
1375	Manifest #144229

Job: HEINZ #1  
Generator: BRANDX HYDROVACS

Ticket: 28494

DESCRIPTION	QTY	UNIT	RATE	NET WEIGHT	AMOUNT	REMARKS
Exempt Production Liquid - Barrel	44.51	Barrel	\$	\$	\$	
			Total	\$	\$	\$ 1078.00

Vehicle: 113 - Brand X Hydrovac Services, HydroVac

PAID BY
On Account

# PAWNEE WASTE

47368 County Road 118  
Grover, CO 80729

## SCALE TICKET

Customer ID: 1029  
Customer: Brand X Hydrovac Services  
PO Box 1199  
Silt, CO 81652

OFFICE	WEIGHT	TYPE	OPERATOR
PW	4872	F2 C2	Kendra D

DATE/TIME	TIME IN	VEHICLE	REMARKS
04/11/2022	02:44 PM	110	None

WEIGHT	REMARKS
1375	Manifest #75805

Ticket: 28994  
Job: HEINZ #1  
Generator: BRANDX HYDROVACS

DESCRIPTION	WEIGHT	UNIT	PRICE	TAXES	TOTAL	REMARKS
Exempt Production Liquid - Barrel	45.76	Barrel	\$ 20.00	\$	\$ 16.53	\$
						4/11/2022
				\$	\$ 16.53	\$

Vehicle: 110 - Brand X Hydrovac Services, HydroVac

PAID BY
On Account

# PAWNEE WASTE

47368 County Road 118  
Grover, CO 80729

## SCALE TICKET

Customer ID: 1029  
Customer: Brand X Hydrovac Services  
PO Box 1199  
Silt, CO 81652

PW	4882	A Liquid	Kendra D
----	------	----------	----------

04/11/2022	02:24 PM	113	None
------------	----------	-----	------

1375	Manifest #75804
------	-----------------

Job: HEINZ #1  
Generator: BRANDX HYDROVACS

Ticket: 28494

Exempt Production Liquid - Barrel	45.46	Barrel	\$ 20.00	\$	\$ 16.43	\$	\$1692.00
				\$	\$ 16.43	\$	

Vehicle: 113 - Brand X Hydrovac Services, HydroVac

On Account
------------

# PAWNEE WASTE

47368 County Road 118  
Grover, CO 80729

## SCALE TICKET

Customer ID: 1029  
Customer: Brand X Hydrovac Services  
PO Box 1199  
Silt, CO 81652

Alt	ID #	Weight	Scale
PW	4830	A Liquid	Kendra D

Date	Time	Vehicle	Driver
04/11/2022	02:50 PM	104	None

Weight	Manifest
1375	Manifest #75806

Job: HEINZ #1  
Generator: BRANDX HYDROVACS

*Ticket: 28994*

Description	Weight	Unit	Price	Total	Tax	Net
Exempt Production Liquid - Barrel	32.43	Barrel	\$ 20.00	\$	\$ 11.72	\$
						\$ 779.00
				\$	\$ 11.72	\$

Vehicle: 104 - Brand X Hydrovac Services, HydroVac

Payment
On Account





**Wright Choice, Inc.**

PO Box 200046  
Evans, CO 80620

# Invoice

Date	Invoice #
4/12/2022	41380

Bill To
Great Western Operating Company Attn: Accounting 4093 Specialty Place, Unit B Longmont, CO 80504

Cost Code			P.O. Number	AFE	Terms
			Heinze #1 (South) Pad		Net 30
Service Date	Quantity	U/M	Description	Rate	Amount
3/28/2022	4	Hour	Pulled ground water and hauled to disposal facility using Transport Vac Truck. Ticket# 187949	95.00	380.00

**Phone: 970-565-7469**

**Total** \$380.00

**Thank you for your business!**

Date	Location	Job # (Dispatch #)	Disposal Site	Disposal Ticket #	Disposed BBLs	Fresh Water BBLs	Fresh Water Rate	Hours	Hourly Rate	Total
03/28/22	Heinze #1 (South)	5667	NGL C-7	C07-65011	130			2	\$ 95.00	\$ 190.00
03/28/22	Heinze #1 (South)	5667	NGL C-7	C07-65016	130			2	\$ 95.00	\$ 190.00
Description	Pulled ground water and hauled to disposal.									
								4	TOTAL	\$ 380.00

Date: 04/12/2022
Cost Center: AL1015
Coding: 8000.446
Authorized By: <i>Quinten Fuentes</i>

**ATTACHMENT E**  
**BOS 200® SAFETY DATA SHEET**



# TRAP & TREAT® BOS 200®

## Safety Data Sheet

Issued: 05/28/2020  
Supersedes: 06/05/2015  
Version: 2.0

### SECTION 1: Identification of the Substance/Mixture and of the Company/Undertaking

#### 1.1. Product identifier

Product name : TRAP & TREAT® BOS 200®  
Product form : Mixture  
Product code : 13967  
Other means of identification : Activated carbon; Steam activated carbon

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Adsorbent

#### 1.3. Details of the supplier of the safety data sheet

Calgon Carbon Corporation  
P.O. Box 717  
Pittsburgh, PA 15230  
412-787-6700

#### 1.4. Emergency telephone number

Emergency number : CHEMTREC (24 HRS): 1-800-424-9300

### SECTION 2: Hazards Identification

#### 2.1. Classification of the substance or mixture

##### GHS-US classification

Combustible Dust

*Not classified as a simple asphyxiant. Product does not displace oxygen in the ambient atmosphere, but slowly adsorbs oxygen from a confined space when wet. Under conditions of anticipated and recommended use, product does not pose an asphyxiation hazard.*

#### 2.2. Label elements

##### GHS-US labeling

Signal word (GHS-US) : **Warning**  
Hazard statements (GHS-US) : May form combustible dust concentrations in air

#### 2.3. Other hazards

Other hazards not contributing to the classification : Wet activated carbon can deplete oxygen from air in enclosed spaces. If use in an enclosed space is required, procedures for work in an oxygen deficient environment should be followed.

#### 2.4. Unknown acute toxicity (GHS-US)

No data available

### SECTION 3: Composition/Information on Ingredients

#### 3.1. Substance

Not applicable

#### 3.2. Mixture

Name	Product identifier	%
Activated carbon	(CAS No) 7440-44-0	≥ 80
Gypsum (Hydrated calcium sulfate)	(CAS No) 13397-24-5	< 20

### SECTION 4: First Aid Measures

#### 4.1. Description of first aid measures

First-aid measures general : If exposed or concerned, get medical attention/advice. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an unconscious person.

First-aid measures after inhalation : IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

First-aid measures after skin contact : IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin with water for at least 15 minutes.

First-aid measures after eye contact : IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do so. Continue rinsing.

First-aid measures after ingestion : IF SWALLOWED: Rinse mouth thoroughly. Do not induce vomiting without advice from poison control center or medical professional. Get medical attention if you feel unwell.



# TRAP & TREAT® BOS 200®

Product Code: 13967

## Safety Data Sheet

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation : Not expected to present a significant hazard under anticipated conditions of normal use. Dust may cause irritation respiratory system.

Symptoms/injuries after skin contact : Dust may cause irritation.

Symptoms/injuries after eye contact : Dust may cause irritation and redness.

Symptoms/injuries after ingestion : Not expected to present a significant hazard under anticipated conditions of normal use.

### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available.

## SECTION 5: Firefighting Measures

### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Carbon dioxide. Dry chemical. Foam. Sand.

Unsuitable extinguishing media : None known.

### 5.2. Special hazards arising from the substance or mixture

Fire hazard : Dust may be combustible under specific conditions. May be ignited by heat, sparks or flames.

Explosion hazard : Dust may form explosive mixture in air.

Reactivity : No dangerous reactions known under normal conditions of use. Carbon oxides, ammonia, or toxic halide fumes may be emitted upon combustion of the material.

### 5.3. Advice for firefighters

Firefighting instructions : Wear NIOSH-approved self-contained breathing apparatus suitable for the surrounding fire. Use water spray or fog for cooling exposed containers. Evacuate area.

## SECTION 6: Accidental Release Measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Evacuate area. Keep upwind. Ventilate area. Spill should be handled by trained clean-up crews properly equipped with respiratory equipment and full chemical protective gear (see Section 8).

#### 6.1.1. For non-emergency personnel

No additional information available.

#### 6.1.2. For emergency responders

No additional information available.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Avoid release to the environment. Product is not soluble but can cause particulate emission if discharged into waterways. Dike all entrances to sewers and drains to avoid introducing material to waterways. Notify authorities if product enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

For containment : Sweep or shovel spills into appropriate container for disposal. Minimize generation of dust.

Methods for cleaning up : Sweep or shovel spills into appropriate container for disposal. Minimize generation of dust. Dispose of material in compliance with local, state, and federal regulations.

### 6.4. Reference to other sections

No additional information available

## SECTION 7: Handling and Storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid dust formation. Avoid contact with skin, eyes and clothing. Do not handle until all safety precautions have been read and understood. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Keep away from sources of ignition - No smoking.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container tightly closed in a cool, dry, and well-ventilated place. Keep away from ignition sources.

## SECTION 8: Exposure Controls/Personal Protection

### 8.1. Control parameters

#### Activated carbon (7440-44-0)\*

OSHA PEL (TWA) (mg/m³)	≤ 5 (Respirable Fraction) ≤ 15 (Total Dust)
------------------------	--

# TRAP & TREAT® BOS 200®

Product Code: 13967

## Safety Data Sheet

Gypsum (Hydrated calcium sulfate) (13397-24-5)*	
OSHA PEL (TWA) (mg/m³)	≤ 5 (Respirable Fraction) ≤ 15 (Total Dust)

\*Exposure limits are for inert or nuisance dust. No specific exposure limits have been established for this activated carbon product by OSHA or ACGIH.

### 8.2. Exposure controls

Appropriate engineering controls

: Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof equipment with flammable materials. Ensure adequate ventilation, especially in confined areas. Wet activated carbon can deplete oxygen from air in enclosed spaces. If use in an enclosed space is required, procedures for work in an oxygen deficient environment should be followed.

Personal protective equipment

: Gloves. Safety glasses. Protective clothing. Insufficient ventilation: wear respiratory protection.



Hand protection

: Gloves should be classified under Standard EN 374 or ASTM F1296. Suggested glove materials are: Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl. Suitable gloves for this specific application can be recommended by the glove supplier.

Eye protection

: Use eye protection suitable to the environment. Avoid direct contact with eyes.

Skin and body protection

: Wear long sleeves, and chemically impervious PPE/coveralls to minimize bodily exposure.

Respiratory protection

: Use NIOSH-approved dust/particulate respirator. Where vapor, mist, or dust exceed PELs or other applicable OELs, use NIOSH-approved respiratory protective equipment.

## SECTION 9: Physical and Chemical Properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Granular, powder, or pelletized substance
Color	: Black
Odor	: Odorless
Odor threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: Not applicable
Melting point	: Not applicable
Freezing point	: Not applicable
Boiling point	: Not applicable
Flash point	: No data available
Auto-ignition temperature	: > 220 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: > 220 °C
Vapor pressure	: Not applicable
Relative vapor density at 20 °C	: Not applicable
Apparent density	: 0.4 - 0.8 g/cc
Solubility	: Carbon and gypsum are insoluble; fertilizer components are soluble
Log Pow	: Not applicable
Log Kow	: Not applicable
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: Not applicable
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosive limits	: No data available

### 9.2. Other information

No additional information available.

# TRAP & TREAT® BOS 200®

Product Code: 13967

## Safety Data Sheet

### SECTION 10: Stability and Reactivity

#### 10.1. Reactivity

No dangerous reactions known under normal conditions of use.

#### 10.2. Chemical stability

Stable under use and storage conditions as recommended in section 7.

#### 10.3. Possibility of hazardous reactions

None known.

#### 10.4. Conditions to avoid

Avoid dust formation. Heat. Ignition sources. Exposure to high concentrations of organic compounds may cause bed temperature to rise.

#### 10.5. Incompatible materials

Alkali metals. Strong oxidizing agents.

#### 10.6. Hazardous decomposition products

Carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>). Ammonia. Toxic halide fumes.

### SECTION 11: Toxicological Information

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified

##### Activated carbon (7440-44-0)

LD <sub>50</sub> oral rat	> 2000 mg/kg
---------------------------	--------------

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Not classified

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

##### Silica: crystalline, quartz (14808-60-7)

IARC group	1 - Carcinogenic to humans
------------	----------------------------

The International Agency for Research on Cancer (IARC) has classified "silica dust, crystalline, in the form of quartz or cristobalite" as carcinogenic to humans (group 1). However these warnings refer to crystalline silica dusts and do not apply to solid activated carbon containing crystalline silica as a naturally occurring, bound impurity. As such, we have not classified this product as a carcinogen in accordance with the US OSHA Hazard Communication Standard (29 CFR §1910.1200) but recommend that users avoid inhalation of product in a dust form.

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

Symptoms/injuries after inhalation : Not classified

Symptoms/injuries after inhalation : Not expected to present a significant hazard under anticipated conditions of normal use.

Symptoms/injuries after skin contact : Dust may cause irritation of the skin.

Symptoms/injuries after eye contact : Dust may cause irritation and redness.

Symptoms/injuries after ingestion : Not expected to present a significant hazard under anticipated conditions of normal use.

### SECTION 12: Ecological information

#### 12.1. Toxicity

No additional information available.

#### 12.2. Persistence and degradability

No additional information available.

#### 12.3. Bioaccumulative potential

No additional information available.

#### 12.4. Mobility in soil

No additional information available.

#### 12.5. Other adverse effects

No additional information available.

# TRAP & TREAT® BOS 200®

Product Code: 13967

## Safety Data Sheet

### SECTION 13: Disposal Considerations

#### 13.1. Waste treatment methods

Waste treatment and disposal methods : Vacuum or shovel material into a closed container. Dispose in a safe manner in accordance with local/national regulations. Do not allow the product to be released into the environment.

Additional information : Activated carbon is an adsorbent media; hazard classification is generally determined by the adsorbate. Consult U.S. EPA guidelines listed in 40 CFR 261.3 for more information on hazardous waste disposal.

### SECTION 14: Transport Information

#### 14.1. In accordance with DOT

Not classified as hazardous for domestic land transport

UN-No.(DOT) : None on finished product

DOT NA no. : None on finished product

Proper Shipping Name (DOT) : Not regulated

Department of Transportation (DOT) Hazard Classes : None on finished product

Hazard labels (DOT) : None on finished product

Packing group (DOT) : None on finished product

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : None on finished product

#### 14.2. Transport by sea

Not classified as hazardous for water transport

IMO / IMDG

UN/NA Identification Number : None on finished product

UN- Proper Shipping Name : Not regulated

Transport Hazard Class : None on finished product

#### 14.3. Air transport

Not classified as hazardous for air transport

ICAO / IATA

UN/NA No : None on finished product

UN- Proper Shipping Name : Not regulated

Transport Hazard Class : None on finished product

Packing Group : None on finished product

Marine Pollutant : None on finished product

#### 14.4. Additional information

Other information : Under the UN classification for activated carbon, all activated carbons have been identified as a class 4.2 product. However, this product type or an equivalent has been tested according to the United Nations Transport of Dangerous Goods test protocol for a "self-heating substance" (*United Nations Transportation of Dangerous Goods, Manual of Tests and Criteria, Part III, Test N.4 - Test Method for Self Heating Substances*) and it has been specifically determined that this product type or an equivalent does not meet the definition of a DOT self-heating substance (class 4.2) or any other hazard class. This information is applicable to the steam activated carbon product described in this document.

### SECTION 15: Regulatory Information

#### 15.1. US Federal regulations

TRAP & TREAT® BOS 200®	
All chemical substances in this product are listed as "Active" in the EPA (Environmental Protection Agency) "TSCA Inventory Notification (Active-Inactive) Requirements Rule" ("the Final Rule") as of February 2019 or are otherwise exempt.	
SARA Section 311/312 Hazard Classes	Physical hazard - Combustible dust
Cobalt (7440-48-4)*	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Listed on United States SARA Section 313	
SARA Section 313 - Emission Reporting	0.1 %

\*Present below de minimis level

#### 15.2. International regulations

No additional information available.



# TRAP & TREAT® BOS 200®

Product Code: 13967

## Safety Data Sheet

### 15.3. US State regulations

#### California Proposition 65

**WARNING:** This product can expose you to chemicals including silica: crystalline, quartz, which are known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

Component	Carcinogenicity	Developmental toxicity	Reproductive toxicity male	Reproductive toxicity female	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
Silica: crystalline, quartz (14808-60-7)	X					
Titanium dioxide (13463-67-7)	X				Not available	
Cobalt (7440-48-4)	X					

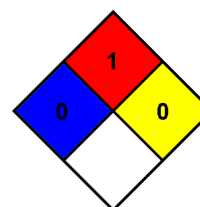
Component	State or local regulations
Aluminum oxide (1344-28-1)	U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Massachusetts - Right To Know List U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List
Calcium sulfate (7778-18-9)	U.S. - Massachusetts - Right to Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List
Silica: crystalline, quartz (14808-60-7)	U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List U.S. - Massachusetts - Right To Know List
Gypsum (Hydrated calcium sulfate) (13397-24-5)	U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List
Ammonium nitrate (6484-52-2)	U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Massachusetts - Right To Know List U.S. - Pennsylvania - RTK (Right to Know) List
Limestone (1317-65-3)	U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List

### SECTION 16: Other Information

Indication of changes : Revision 2.0  
Revision Date : 05/28/2020  
Other information : Author: BCS.  
For internal use only : PR #85

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

NFPA health hazard : 0 - Exposure under fire conditions would offer no hazard beyond that of ordinary combustible materials.  
NFPA fire hazard : 1 - Must be preheated before ignition can occur.  
NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



### HMIS III Rating

Health : 0  
Flammability : 1

# TRAP & TREAT® BOS 200®

Product Code: 13967

## Safety Data Sheet

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Physical : 0  
Personal Protection :

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. The information in this document applies to this specific material as supplied. It may not be valid if product is used in combination with other materials. It is the user's responsibility to determine the suitability and completeness of this information for their particular use. While the information and recommendations set forth herein are believed to be accurate as of the date hereof, Calgon Carbon Corporation makes no warranty with respect to the same, and disclaims all liability for reliance thereon.