

NM1-13  
EPI LANDFARM  
MINOR  
MODIFICATION  
APPROVED  
11/12/2025

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State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

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Form C-137A  
Revised October 11, 2022

File via OCD Permitting with any  
associated permit fee

## APPLICATION FOR MINOR MODIFICATION TO SURFACE WASTE MANAGEMENT FACILITY

1. Operator: Environmental Plus, Inc. (EPI) DBA Environmental Plus Landfarm  
Address: Post office Box 1558, Eunice, New Mexico 88231  
Contact Person: Sherry K. Miller Phone: 575-390-1886
2. Location:            /4            /4 Section 14 & 15 Township 22S Range 37E
3. Provide permit number NM-1-103
4. Attach a description of the proposed minor modification(s) to the surface waste management facility.
5. If the Minor Modification involves changes to a treatment, remediation, or disposal method, attach engineering designs, certified by a registered professional engineer, including technical data on the design elements of each applicable treatment, remediation, and disposal method and detailed designs of surface impoundments.
6. If the Minor Modification will affect the closure and post-closure plan, attach an updated closure and post closure plan, including a responsible third party contractor's cost estimate, sufficient to close the surface waste management facility in a manner that will protect fresh water, public health, and the environment (the closure and post closure plan shall comply with the requirements contained in 19.15.36.18 NMAC).
7. If the Minor Modification will affect the contingency plan, attach an updated contingency plan that complies with the requirements of Subsection N of 19.15.36.13 NMAC and with NMSA 1978, Sections 12-12-1 through 12-12-30, as amended (the Emergency Management Act).
8. If the Minor Modification will affect the control of run-on or run-off water at the site, attach an updated plan to control run-on water onto the site and run-off water from the site that complies with the requirements of Subsection M of 19.15.36.13 NMAC.
9. If the Minor Modification will affect the best management practice plan, attach a best management practice plan to ensure protection of fresh water, public health, and the environment.
10. The division may require additional information to demonstrate that the surface waste management facility's operation will not adversely impact fresh water, public health, or the environment and that the surface waste management facility will comply with division rules and orders.

### 11. CERTIFICATION

I hereby certify that the information submitted with this application is true, accurate, and complete to the best of my knowledge and belief.

Name: Sherry K. Miller

Title: Owner

Signature: 

Date: 9-17-2025

E-mail Address: [Sherry.EPI@gmail.com](mailto:Sherry.EPI@gmail.com) or [Mccasland\\_67@msn.com](mailto:Mccasland_67@msn.com)



# Environmental Plus, Inc. Landfarm New Mexico permit #NM-1-013

OGRID 195265  
Sec 14 & 15 - T22S – R37E  
**Lea County, New Mexico**

## 137A Minor Modification Closure and Post Closure Plan

Date: October 2025

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## I. INTRODUCTION AND PURPOSE

Environmental Plus, Inc. (EPI) was formed in 1993 as a for profit corporation to provide environmental remediation and construction services to the oil & gas industry of southeast New Mexico and west Texas. The State of New Mexico Oil Conservation Division (NMOCD), on February 15, 1993, issued permit #NM-1-013 authorizing receipt of non-hazardous/non-liquid oilfield wastes. Contaminated soil was received and remediated until 2017, when the decision was made by EPI to close the business. The landfarm, even though not accepting waste, remains under permit until closure and post-closure requirements are achieved and the NMOCD vacates the permit.

The proposed Closure Plan and Post Closure Plan requires “Minor Modifications” to the current permit and, when implemented, will provide the necessary environmental information to document successful remedial performance of the Environmental Plus, Inc. (EPI) Landfarm as permitted and historically operated. Using historical monitoring data and data generated by the proposed Closure Sampling and Analysis Plan (SAP) contained in the Closure Plan, EPI will confirm that the landfarm has performed as designed, posing no future negative impacts to the fresh water, public health, and the environment, adequate to justify and support “clean closure” and the decision proceeding to “closure and post closure” of the facility by the New Mexico Oil Conservation Division (NMOCD). The proposed Post Closure Plan will provide the necessary information and evidence to verify effectiveness of the implemented Closure Plan and support the decision by the NMOCD to vacate the permit and release EPI of future financial liability.

## II. CLOSURE PLAN AND POST CLOSURE PLAN OBJECTIVES

**Identify** which “Exceptions or Waivers” (in accordance with 19.15.36.19A – Exceptions and Waivers) to the current permit are necessary to achieve clean closure and accomplish post closure goals.

- 19.15.36.15.B – Background Testing
  - EPI requests an Exception to this Rule requiring establishing background concentrations for “TPH, as determined by EPA method 418.1 or other EPA method approved by the division, BTEX, as determined by EPA SW-846 Method 8021B or 8260B; chlorides, and other constituents in Subsections A and B of 20.6.2.3103 NMAC, using approved EPA methods.”
  - In lieu of comparing closure data to background values, EPI is proposing the use of established closure thresholds for the Constituents of Concern (CoCs) known to be protective of fresh water, public health, and the environment, i.e.;
    - Table I of 19.15.29.12 NMAC for Benzene, BTEX, GRO+DRO combined fraction, Total Petroleum Hydrocarbon (TPH) (C<sub>6</sub>-C<sub>36</sub> by 8015M Extended) and chlorides.
    - Table A-1 of the New Mexico Environment Department “Risk Assessment Guidance for Investigations and Remediation Volume I November 2022” for the 15 CoCs in “Subsections A and B of 20.6.2.3103 NMAC as determined by EPA SW-846 methods 6010B or 6020,” applying the most conservative NMED Soil Screening Levels (excluding the columns titled “Tap Water Cancer”, “Tap Water Noncancer”, and “Cw, DAF 20”).

- 19.15.36.15.E(2) NMAC – Semi-Annual Monitoring Program
  - This rule currently requires Vadose Zone monitoring data be compared to the “the higher of the PQL or the background soil concentrations to determine whether a release has occurred.”
  - In Lieu of establishing background concentrations for TPH, BTEX, and chlorides, EPI requests an exception allowing the use of the thresholds listed in Table I of 19.15.29.12 NMAC considered to be protective of fresh water, public health, and the environment.
- 19.15.36.15.E(3) NMAC – Five Year Monitoring Program
  - This rule currently requires Vadose Zone monitoring data for the CoCs listed in “Subsections A and B of 20.6.2.3103 NMAC shall be determined by EPA SW-846 methods 6010B or 6020 or other methods approved by the division” to be compared to the “the higher of the PQL or the background soil concentrations to determine whether a release has occurred.”
  - In Lieu of establishing background concentrations considered to be protective of fresh water, public health, and the environment, EPI requests an exception allowing the use of Table A-1 of the New Mexico Environment Department "Risk Assessment Guidance for Investigations and Remediation Volume I November 2022" for the 15 CoCs in “Subsections A and B of 20.6.2.3103 NMAC as determined by EPA SW-846 methods 6010B or 6020,” applying the most conservative NMED Soil Screening Levels (excluding the columns titled “Tap Water Cancer”, “Tap Water Noncancer”, and “Cw, DAF 20”).
- 19.15.36.15.F(5) NMAC – Treatment Zone Closure Performance Standards
  - This rule requires Treatment Zone monitoring data for the CoCs listed in “Subsections A and B of 20.6.2.3103 NMAC shall be determined by EPA SW-846 methods 6010B or 6020 or other methods approved by the division” are to be compared to the “PQL or the background soil concentrations.”
  - In Lieu of comparing closure data to background concentrations considered to be protective of fresh water, public health, and the environment, EPI requests an exception allowing the use of the most conservative Soil Screening Levels (SSLs) of Table A-1 of the New Mexico Environment Department "Risk Assessment Guidance for Investigations and Remediation Volume I November 2022" Levels (excluding the columns titled “Tap Water Cancer”, “Tap Water Noncancer”, and “Cw, DAF 20”) for the 15 CoCs in “Subsections A and B of 20.6.2.3103 NMAC as determined by EPA SW-846 methods 6010B or 6020.”
- 19.15.36.18 NMAC Closure and Post Closure:
  - Completing the Closure and Post Closure Plan is predicated on the NMOCD declaring achievement of “clean closure” based on the results of the Closure Sampling and Analysis Plan (SAP), see Section IV. If clean closure is declared, EPI requests the NMOCD consider the evidence and documentation submitted herewith demonstrating completion of the requirements of 19.15.36.18 NMAC Closure and Post Closure and issue a final closure declaration to the EPI Landfarm facility, refer to Stipulation 18 “New Request for Consideration” following Permit Stipulation 17 in Section III – Exceptions and Waivers.



### III. EXCEPTIONS AND WAIVERS

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#### CURRENT PERMIT STIPULATIONS AND PROPOSED MINOR MODIFICATIONS

In response to the NMOCD letter dated June 30, 2011 titled "Compliance with the Transitional Provisions of the Surface Waste Management Facilities Rule (Rule 36) and Treatment and Vadose Monitoring Requirements Existing Landfarms," Environmental Plus, Inc. submitted a request for a C137A Minor Modification to the existing permit (NM1-013). In a letter from the NMOCD dated November 10, 2022, EPI's request was approved with the following stipulations, i.e.:

- 1. EPI shall comply with all applicable requirements of the Oil and Gas Act (Chapter 70, Article 2 NMSA 1978), the existing permit NM1 - 013 as modified, the transitional provisions of 19.15.36.20 NMAC, and all conditions specified in this approval;***

No minor modification is proposed to Permit Stipulation #1

- 2. EPI shall cease the biweekly tilling in landfarm cells that the semi-annual treatment zone monitoring results of 19.15.36.15.D NMAC demonstrate that TPH does not exceed 2500 mg/kg and that the chloride concentration does not exceed 500 mg/kg if the landfarm is located where ground water is less than 100 feet but at least 50 feet below the lowest elevation at which the operator will place oil field waste;***

No minor modification is proposed to Permit Stipulation #2

- 3. Treatment zone sampling and monitoring for an additional lift shall be performed in accordance with 19.15.36.15.D NMAC in lieu of the NM1-013 permit requirements;***

No minor modification is proposed to Permit Stipulation #3

- 4. Analysis of total petroleum hydrocarbons (TPH) shall be represented as the sum of Gasoline Range Organics (GRO), Diesel Range Organics (DRO) and Motor Oil Range Organics (MRO) (hydrocarbon chain range from C<sub>6</sub> through C<sub>36</sub>) by EPA Method 8015M or 8015M Extended, in lieu of TPH by EPA Method 418.1, to establish background and to conduct all future vadose zone and treatment zone monitoring;***

Any ongoing sampling of the vadose zone and the treatment zone shall represent TPH as the sum of GRO, DRO and MRO (hydrocarbon chain range from C<sub>6</sub> through C<sub>36</sub>) by EPA Method 8015M or 8015M Extended, in lieu of TPH by EPA Method 418.1.

EPI proposes to forgo establishing background concentrations for use as acceptable closure thresholds for the CoCs, relying rather, on thresholds considered to be protective of the fresh water, public health, and the environment as published in;

- Table 1 of 19.15.29.12 NMAC
- Table A-1 of the New Mexico Environment Department "Risk Assessment Guidance for Investigations and Remediation Volume I November 2022" for the 15 CoCs in "Subsections A and B of 20.6.2.3103 NMAC as determined by EPA SW-846 methods 6010B or 6020," applying the most conservative NMED Soil Screening Levels (excluding the columns titled "Tap Water Cancer", "Tap Water Noncancer", and "Cw, DAF 20").

EPI therefore requests, relative to the background concentration references in Permit Stipulation #4, exceptions to:

- 19.15.36.15.B NMAC, requires background testing to establish background closure thresholds; EPI proposes comparing CoC closure data to thresholds established by the New Mexico Oil Conservation Division and the New Mexico Environment Department known to be protective of the fresh water, public health, and the environment.
- 19.15.36.15.E(2) NMAC, regarding Vadose Zone Semi-annual monitoring and comparing results to background soil thresholds,
- 19.15.36.15.E(3) NMAC, regarding Vadose Zone Five-year monitoring and comparing results to background soil thresholds, and
- 19.15.36.15.F(5) NMAC, regarding Treatment Zone closure performance standards for the CoCs in "Subsections A and B of 20.6.2.3103 NMAC as determined by EPA SW-846 methods 6010B or 6020," and comparing monitoring results to background soil thresholds. (The treatment zone closure thresholds for Benzene, BTEX, GRO+DRO combined fractions, TPH, and Chloride listed in 19.15.36.15.F(1,2,3,4) NMAC, respectively, will apply to the historical and future treatment zone data to be used to justify closure of the treatment zone soils in the cells.)

The published thresholds considered to be protective of the fresh water, public health, and the environment are provided below.

Table I of 19.15.29.12 NMAC	
Constituents of Concern	mg/Kg
Benzene by 8021B or 8260B	10
Total BTEX by 8021B or 8260B	50.0
GRO+DRO combined fraction by 8015M	1,000
TPH (hydrocarbon chain range from C <sub>6</sub> - C <sub>36</sub> ) by 8015M Extended	2,500
Chloride by Standard Method SM4500Cl-B or EPA Method 300.1	10,000**
**Ground Water 51-100 'below original ground surface	

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<b>Subsections A and B of 20.6.2.3103 NMAC  determined by EPA SW-846 methods 6010B or 6020  Most Conservative NMED Soil Screening Levels from Table A-1 of the  "Risk Assessment Guidance for Investigations and Remediation  Volume I November 2022"  (excluding the columns titled "Tap Water Cancer", "Tap Water Noncancer", and "Cw, DAF 20")  (See Attachment 5-Tables)</b>	
Constituent of Concern	Soil Screening Levels (mg/Kg)
Antimony	3.13E+01
Arsenic	7.07E+00
Barium	4.39E+03
Beryllium	1.48E+02
Cadmium	7.05E+01
Chromium (Total)	9.66E+01
Copper	3.13E+03
Iron	5.48E+04
Lead <sup>1</sup>	<b>2.97E+01</b>
Manganese	4.64E+02
Mercury (elemental)	2.07E+01
Selenium	3.91E+02
Silver	3.91E+02
Thallium	7.82E-01
Zinc	2.35E+04
<sup>1</sup> EPA doesn't provide an exposure level for Lead in Table A-1. The calculated value being proposed is based on a previously NMOC approved Dilution Attenuation Factor (DAF) of 2.2 for Soil Screening Level concentrations listed in Table A-3 of the Risk Assessment Guidance document.	

- 5. EPI shall utilize Standard Method SM4500Cl-B, in addition to EPA Method 300.1, for chloride to establish background and to conduct all future vadose zone and treatment zone monitoring;**

No minor modification is proposed to Permit Stipulation #5.

- 6. EPI shall take the vadose zone samples from soils between three and four feet below the cell's original ground surface beneath the treatment zone in each landfarm cell;**

No minor modification is proposed to Permit Stipulation #6.

**7. Vadose zone sampling and monitoring shall be performed in accordance with 19.15.36.15.E NMAC in lieu of the NM1-013 permit requirements;**

EPI requests a minor modification to Permit stipulation #7, i.e.;  
EPI proposes confirmatory Vadose Zone closure sampling be conducted in accordance with 19.15.36.15.E.2 – Semi-annual Monitoring for TPH, BTEX, and Chloride and the CoCs of 19.15.36.15.E.3 - Five year monitoring program with the results compared to the thresholds being proposed in the exception request to Permit stipulation #4 rather than background concentrations.

**8. EPI shall backfill sample excavations and boreholes with the excavated soils rather than with an impermeable material such as cement or bentonite;**

No minor modification is proposed to Permit Stipulation #8.

**9. EPI shall utilize the most conservative (lowest) exposure limits of either the Risked-based SSL DAF 1 or the NMGW/MCL based SSL DAF 1 values listed in Table A-3, Summary of Soil-to-Groundwater Screening Levels, from the June 2022 NMED Risk Assessment Guidance for Site Investigations and Remediation, Volume I, Soil Screening Guidance for Human Health Risk Assessments for each constituent listed in Subsections A and B of 20.6.2.3103 NMAC (except for GRO, DRO, TPH, BTEX and Chloride) to assist in the recalculation of the groundwater exposure pathway for each constituent. OCD wishes to clarify that the application of a risked based approach to change a numerical standard specified for Benzene, BTEX, GRO, DRO, TPH, and/or Chlorides, as recognized in Paragraphs (1-4) of 19.15.36.15.F NMAC, is a major modification pursuant to 19.15.36.7.B(9) NMAC and cannot be considered in a minor modification request;**

EPI requests an exception to Permit stipulation #9 requiring the use of the most conservative exposure limits in Table A-3, Summary of Soil to Groundwater Screening Levels, from the June 2022 NMED Risk Assessment Guidance for Site Investigations and Remediation, Volume I, Soil Screening Guidance for Human Health Risk Assessments. EPI proposes using the most conservative concentrations for the “Subsections A and B of 20.6.2.3103 NMAC” CoCs listed in Table A-1 of the New Mexico Environment Department “Risk Assessment Guidance for Investigations and Remediation Volume I November 2022” (excluding the columns titled “Tap Water Cancer”, “Tap Water Noncancer”, and “Cw, DAF 20”). These SSLs and resultant CoC closure thresholds are being proposed in the exceptions requested previously to Permit stipulation #4.

**10. EPI shall utilize a dilution attenuation factor (DAF) of 2.2 to recalculate the groundwater exposure pathway threshold values and establish acceptable SSL performance threshold concentrations for the constituents listed in Subsections A and B of 20.6.2.3103 NMAC (except for GRO, DRO, TPH, BTEX and Chloride) rather than establish background for the constituents**



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***pursuant to 19.15.36.15.B NMAC. EPI shall compare the recalculated groundwater exposure pathway threshold values to the other applicable exposure pathway threshold values provided in Table A-1, NMED Soil Screening Levels, from the June 2022 NMED Risk Assessment Guidance for Site Investigations and Remediation, Volume I, Soil Screening Guidance for Human Health Risk Assessments, to determine which of the most stringent exposure pathway threshold values should be applied for each constituent;***

EPI requests an exception to Permit stipulation #10, i.e.;  
 EPI proposes using the most conservative exposure limits in Table A-1 of the New Mexico Environment Department "Risk Assessment Guidance for Investigations and Remediation Volume I November 2022" (excluding the columns titled "Tap Water Cancer", "Tap Water Noncancer", and "Cw, DAF 20") for the CoCs listed in "Subsections A and B of 20.6.2.3103 NMAC" rather than Table A-3, Summary of Soil to Groundwater Screening Levels, from the June 2022 NMED Risk Assessment Guidance for Site Investigations and Remediation, Volume I, Soil Screening Guidance for Human Health Risk Assessments. (See Attachment 5-Tables)  
 These SSLs are being proposed in the exceptions requested to Permit Stipulation #4.

***11. EPI shall combine certain landfarm cells, as proposed in the minor modification request, to the appropriate sampling size for a DAF of 2.2 for all future treatment zone and vadose zone monitoring. The combining of certain landfarm cells will result in landfarm cells being larger than five (5) acres but less than 10 acres as required of 19.15.36.7.B(6) NMAC. EPI must submit vadose zone and treatment zone sampling protocols to address the future semi-annual treatment zone sampling of 19.15.36.15.D NMAC, the semi-annual vadose sampling of 19.15.36.15.E NMAC, and the treatment zone closure sampling of 19.15.36.15.F NMAC to demonstrate that representative samples are obtained and assessed from the combined landfarm cells;***

No minor modification is proposed to Permit Stipulation #11.

***12. EPI shall exclude the following toxic pollutants, listed in 20.6.2.7.T(2) NMAC from the facility background demonstration required of 19.15.36.15.B NMAC, since the analytes are not considered associated with oil field waste:***

- a. nitroaromatics and high explosives (20.6.2.7.T(2)(p)(i)-(viii) NMAC);***
- b. Endosulfan (20.6.2.7.T(2)(t)(vi) NMAC); and***
- c. Prometon (20.6.2.7.T(2)(t)(xi) NMAC).***

EPI requests a exception to Permit stipulation #12 and 19.15.36.15.B NMAC – Background testing, i.e;

EPI is requesting, in Permit Stipulation #4, an exception to 19.15.36.15.B NMAC – Background testing, and proposes published thresholds considered to be protective of the fresh water, public health, and the environment. Furthermore, these 3 compounds are not listed as CoCs in the compounds in "Subsections A and B of 20.6.2.3103 NMAC as

determined by EPA SW-846 methods 6010B or 6020” and will no longer be relevant.

**13. Mercury shall be analyzed by EPA Method 7471A, in lieu of EPA Methods 6010B or 6020, to establish background and to conduct all future vadose zone and treatment zone monitoring;**

EPI requests a minor modification to Permit stipulation #13, i.e;

EPI proposes Permit stipulation #13 be changed to allow analysis of Mercury using EPA Methods 6010B or 6020 in addition to EPA Method 7471A. Some historical data exists that was analyzed using both methods.

**14. If EPI achieves the closure performance standards specified in 19.15.36.15.F NMAC, then EPI may either leave the treated soils and cell berms constructed of treated soils in place, or, with prior division approval, reuse the treated soils in an alternative manner. EPI shall include closure protocols for the sampling of the berms constructed of treatment zone soils for closure performance standards in 19.15.36.15.F NMAC in the closure and post-closure plan;**

No minor modification is proposed to Permit stipulation #14, however, if the NMOCD declares achievement of “clean closure,” EPI requests approval to “reuse the treated soils in an alternative manner,” specifically, the caliche can be used as road material.

**15. EPI may leave the existing roads in place after closure to accommodate access and monitor the property after closure and post-closure; and**

No minor modification is proposed to Permit Stipulation #15.

**16. EPI shall submit a facility background sampling and analysis plan, within 30 days of receipt of this letter, to OCD for review and consideration of approval for the following constituents: GRO, DRO, MRO, BTEX, Chlorides, Combined Radium-226 and Radium-228, pH, and Sulfate.**

EPI requests an exception to Permit stipulation #16, i.e;

EPI proposed forgoing establishing background concentrations for the CoCs in Permit Stipulation #4, relying rather, on thresholds published by the NMED and NMOCD which are considered to be protective of the fresh water, public health, and the environment.

Permit stipulation #4 requested exceptions to the following Rule 36 requirements:

- 19.15.36.15.B NMAC requires background testing to establish background closure thresholds; in lieu of comparing closure data to background data, EPI proposes comparing CoC closure data to thresholds established by the New Mexico Oil Conservation Division and the New Mexico Environment Department known to be protective of protective of the fresh water, public health, and the environment.
- 19.15.36.15.E(2) NMAC, regarding Vadose Zone Semi-annual monitoring and comparing results to background soil thresholds,

- 19.15.36.15.E(3) NMAC, regarding Vadose Zone Five-year monitoring and comparing results to background soil thresholds, and
- 19.15.36.15.F(5) NMAC, regarding Treatment Zone closure performance standards for the CoCs in “Subsections A and B of 20.6.2.3103 NMAC as determined by EPA SW-846 methods 6010B or 6020,” and comparing monitoring results to background soil thresholds. (The treatment zone closure thresholds for Benzene (0.2 mg/Kg), BTEX (50 mg/Kg), GRO and DRO combined fraction (500 mg/Kg), TPH as the combined fraction of GRO and DRO and MRO (2,500 mg/Kg), and Chloride (1,000 mg/Kg) listed in 19.15.36.15.F(1,2,3,4) NMAC, respectively, will apply to the historical and future treatment zone data to be used to justify closure of the soils in the treatment zones in the cells.)

**17. EPI shall obtain written approval from OCD prior to implementing any changes to this approval.**

No minor modification is proposed to Permit Stipulation #17.

**NEW REQUEST FOR CONSIDERATION**

19.15.36.18 Closure and Post Closure:

If the NMOCD declares achievement of “clean closure”, EPI requests the NMOCD consider the documentation provided below which demonstrates acceptable completion of the stipulations of the closure and post-closure requirements of 19.15.36.18 NMAC – Closure and Post Closure. The rationale being that the landfarm cells have revegetated naturally since cessation of waste receipt in 2017 and cessation of tilling/disking in December of 2019. The New Mexico State University Extension Agent for Lea County and personnel from the United States Department of Agriculture-Natural Resources Conservation Service (NRCS) Roswell, New Mexico Office surveyed the landfarm cells to identify plant species and status of re-vegetation. The report identified nine (9) perennial native grasses, one (1) annual native grass, six (6) forbs, and four (4) different species of shrubs. The Ecological Study is included in Attachment 8. Attachment 3 contains August 8, 2025 photographs of the revegetation of the cells.

Regarding the man-made berms, Stipulation #14 allows the berms to remain in place as they have become nesting habitat for Burrowing Owls, Attachment 4 provides photographs of the burrows and owlets and observation lists from the “eBird” website managed by Cornell University. As provided for in 19.15.36.18.F NMAC – Alternatives to Re-vegetation, consultation with the landowner (who is also the owner of EPI), wants the berms to remain in place and also allow the cells and berms to continue to revegetate naturally. Additionally, pushing the berms down to grade would destroy much of re-vegetated surface.

Requirements:

- **19.15.36.18.A(6) NMAC– Upon completion of closure: EPI will document completion of the following stipulations of this rule, i.e.:**

- **Re-vegetation consisting of establishing vegetative cover equal to seventy percent of the native perennial vegetative cover (un-impacted by overgrazing, fire or other intrusion damaging to native vegetation) or**
- **Scientifically documented ecological description of at least three native plant species, including at least one grass, but not including noxious weeds and maintenance of that cover through two successive growing seasons.**

EPI Response: The remediated emplaced soils have not been disturbed for six (6) years and have re-vegetated naturally. The Ecological Study (See Attachment 8) identified nine (9) different perennial native grasses, one (1) annual native grass, six (6) different species of forbs, and four (4) different species of shrubs.

○ **19.15.36.18.C(4) NMAC– Surface waste management facility and cell closure:**

- **(4)a – Disking of cells –**

EPI Response: Stipulation 2 of the current permit allows disking to be discontinued.

- **(4)b – Soils left in place will be re-vegetated in accordance with 19.15.36.18.A(6) NMAC.**

EPI Response: See previous response to 19.15.36.18.A(6) NMAC.

- **(4)c & d – Unremediated Land farmed soils according to 19.15.36.15.F will be:**
  - **Remediated on site or**
  - **Removed to a NMOCD approved facility and replaced with native soil and re-vegetated in accordance with 19.15.36.18.A(6) NMAC.**

EPI Response: The emplaced soil has been remediated to acceptable levels.

- **(4)e – Berms are removed.**

EPI Response: Stipulation 14 of the current permit states, “If EPI achieves the closure performance standards specified in 19.15.36.15.F NMAC, then EPI may either leave the treated soils and cell berms constructed of treated soils in place, or, with prior division approval, reuse the treated soils in an alternative manner. EPI shall include closure protocols for the sampling of the berms constructed of treatment zone soils for closure performance standards in 19.15.36.15.F NMAC in the closure and post - closure plan;” the berms will be sampled.

- **(4)f – Buildings, fences, roads and equipment are removed, the site cleaned-up and tests conducted on the soils for contamination.**

EPI Response: Stipulation 15 of the current permit states, “EPI may leave the existing roads in place after closure to accommodate access and monitor the property after closure and post - closure;”

- **4(g) – Annual reports of vadose zone and treatment zone sampling are submitted to the division’s environmental bureau until the division has approved the surface waste management facility’s final closure:** EPI Response: Annual reports will be submitted if required.
- **4(h) – Not applicable.**

○ **19.15.36.18.E NMAC - Landfarm Post Closure**



- **Post Closure care period shall be three years if the operator has achieved clean closure.**  
 EPI Response: If clean closure is achieved, EPI requests credit be given for the 6 (six) years the cells have lain fallow and have naturally re-vegetated to an acceptable level as documented in Attachment 3-Cell Photographs and the Ecological Study Report included in Attachment 8.
- **The operator shall regularly inspect and maintain required re-vegetation.** EPI EPI Response: If clean closure is not achieved, EPI will inspect regularly and maintain required re-vegetation.
- **If there has been a release to the vadose zone or to ground water, then the operator shall comply with the applicable requirements of 19.15.30 NMAC and 19.15.29 NMAC.**  
 EPI Response: Historical data supports the preliminary conclusion that there has not been a release to the vadose zone or to ground water. The Closure Sampling and Analysis Plan will collect supplementary data to confirm that there has not been a release to the vadose zone or to ground water. It is assumed that the NMOCD will issue Final Closure of the landfarm if “clean closure” is achieved and that EPI will be credited with the required post-closure time requirement and acceptable re-vegetation. If EPI achieves the Closure and Post-Closure goals acceptable to the NMOCD, the NMOCD will issue closure and, in accordance with 19.15.36.15.B, release EPI of the financial assurance requirements.

#### IV. CLOSURE SAMPLING AND ANALYSIS PLAN (SAP)

This Closure SAP will identify proposed sample locations and analytical suites sufficient to provide characterization data to show compliance with the NMOCD approved environmental thresholds for the CoCs proposed and discussed previously. No additional contaminated soil has been received since cessation of operations in 2017.

##### TREATMENT ZONE HISTORICAL DATA AND PROPOSED SAMPLING

Historical Treatment Zone data exists from previous sampling events which demonstrates compliance with 19.15.36.15.F(1,2,3,4) NMAC – Treatment Zone closure performance standards for Benzene, BTEX, GRO and DRO combined fraction, TPH, and Chlorides. Confirmatory samples will be collected and analyzed in accordance with 19.15.36.15.F(1,2,3,4) NMAC, i.e., a minimum of one composite soil sample consisting of four discrete samples will be collected from random locations from the 0-8 inch lift interval within each of the 7 cells (single and combined cells) shown in the Table below, and submitted for Benzene, BTEX, GRO, DRO, MRO (TPH), and Chlorides analysis as stated in Stipulation 4. These samples will also be analyzed for the CoCs of “Subsections A and B of 20.6.2.3103 NMAC shall be determined by EPA SW-846 methods 6010B or 6020” in accordance with 19.15.36.15.F(5) NMAC. Lab analysis results for the CoCs and will be compared to the most stringent Soil Screening Levels in Table A-1 of the NMED Risk Assessment Guidance for Site Investigations and Remediation, Volume I, Soil Screening Guidance for Human Health Risk Assessments, November 2022 (excluding the columns titled “Tap Water Cancer”, “Tap Water Noncancer” and “Cw, DAF 20”), as stated in Stipulation 4, recognizing that laboratory detection limits must be at or below regulatory

thresholds. The historical data is summarized in Attachment 6 – Analytical Results Summary and the Laboratory Reports in Attachment 7.

## VADOSE ZONE HISTORICAL DATA

On January 8 and 9, 2020, in an effort to delineate any CoC releases into the Vadose Zone, samples were collected using the protocols of 19.15.36.15.E(2) NMAC– Semi-annual Monitoring Program for GRO, DRO, MRO, Benzene, BTEX, and Chloride analysis and for the CoCs of 19.15.36.15.E(3) NMAC- Five-year Monitoring Program, i.e, “Subsections A and B of 20.6.2.3103 NMAC shall be determined by EPA SW-846 methods 6010B or 6020.” Four (4) independent discrete soil samples were collected from an interval of 3 to 4 feet below original ground surface from within cells 1-12. For cells 13, 14, and 15, due to their small size, single samples were collected. Each one of these discrete samples were analyzed for GRO, DRO, MRO, Benzene, BTEX, and Chloride. As stated in Stipulation #4, EPI is requesting an exception from 19.15.36.15.E.2 comparing sample results to background and instead comparing to the limits in Table 1 of 19.15.29.12 NMAC. All were less than the thresholds listed in Table 1 of 19.15.29.12 NMAC. For the CoCs of “Subsections A and B of 20.6.2.3103 NMAC shall be determined by EPA SW-846 methods 6010B or 6020,” for Cells 1-12 a composite sample was prepared using the 4 four discrete samples collected from the respective cells and submitted for analysis. The single discrete samples from Cells 13, 14, and 15 were composited and submitted for analysis. Analytical results are summarized in Attachment 6 – Analytical Results Summary and the Laboratory Reports in Attachment 7.

## VADOSE ZONE PROPOSED SAMPLING

EPI proposes to collect confirmatory closure samples in accordance with the protocols of 19.15.36.15.E(2) NMAC– Semi-annual Monitoring Program for GRO, DRO, MRO, (TPH), Benzene, BTEX, and Chloride analysis from an interval of 3 to 4’ below original ground surface from each of the 7 single and combined super cells per the Sampling Scheme below and submit them, under Chain-of Custody, for laboratory analysis and compare the results to the CoC thresholds listed in Table 1 of 19.15.29.12 NMAC.

EPI also proposes, using the protocols and requirements of 19.15.36.15.E(3) NMAC – Five Year Monitoring Program, to collect 4 (four) randomly selected independent/discrete Vadose Zone closure samples from an interval of 3 to 4’ below original ground surface from each of the 7 single and combined super cells per the Sampling Scheme below and submit them, under Chain-of Custody, for laboratory analysis separately for the CoCs of “Subsections A and B of 20.6.2.3103 NMAC shall be determined by EPA SW-846 methods 6010B or 6020,” with the results compared to the most stringent Soil Screening Levels in Table A-1 of the NMED Risk Assessment Guidance for Site Investigations and Remediation, Volume I, Soil Screening Guidance for Human Health Risk Assessments, November 2022 (excluding the columns titled “Tap Water Cancer”, “Tap Water Noncancer”, and “Cw, DAF 20”), as stated in Stipulation 4, recognizing that laboratory detection limits must be at or below regulatory thresholds.

Below is the proposed treatment and vadose zone sampling scheme for the combined cells and the proposed sample location maps are included in Attachment 1 and are annotated with the previous and proposed sample locations.

<b>Combined Cell Sampling Matrix Vadose Zone Sampling Scheme</b>			
Cell	Super Cell ID	Respective Discrete random samples per Cell for the <b>Vadose Zone</b> Composite Monitoring and Closure Samples (Sampling Interval 3-4' below original ground surface)	Combined Acres
1	1	4	5.7
2	2-4	2	5.9
3		2	
4		2	
5	5	4	4.9
6	6	4	5.8
7	7-8	2	5.6
8		2	
9	9-10	2	4.7
10		2	
11	11-15	1	5.8
12		1	
13		1	
14		1	
15		1	

#### Vadose Zone Sampling Protocols and Sample Handling

The approved proposed specific sample locations will be flagged prior to the sampling event. After completing the "one Call" procedure, a rubber tired backhoe will be used to scrape away emplaced and remediated soil down to the interval of native soil, i.e. original ground surface, and will then excavate a ramped trench down to approximately 5' below the original ground surface. The sample will then be collected into a clean ziplock bag from the sidewall of the excavation within the 3-4' below original ground surface interval using a plastic or stainless-steel sampling tool. The sample will then be place in a 4 oz. glass jar with a septum seal (obtained from Cardinal Laboratories in Hobbs, New Mexico) and tightly compacted, then labeled with the sampler, collection time, date, and location ID, and then placed on ice. The sample will then be transported to Cardinal Laboratories in Hobbs, New Mexico and ascensioned under Chain-of-Custody to the lab for analysis.

#### PERIMETER BERM SAMPLING

**Perimeter Berms** consist primarily of remediated soil and will be sampled and analyzed to provide data confirming compliance with the CoCs closure thresholds listed in 19.15.36.15.F(1,2,3,4) NMAC – Treatment Zone closure performance standards for Benzene (0.2 mg/Kg), BTEX (50 mg/Kg), GRO + DRO combined fraction (500 mg/Kg), TPH as the combined fraction of GRO + DRO + MRO (2,500 mg/Kg), and Chloride (1,000 mg/Kg).

Perimeter Berm samples collected will also be analyzed in accordance with 19.15.36.15.F(5) NMAC – Treatment Zone closure performance standards for the CoCs, under Chain-of Custody, for laboratory analysis separately for the CoCs of "Subsections A and B of 20.6.2.3103 NMAC shall be determined by EPA SW-846 methods 6010B or 6020," with the results compared to the most stringent Soil Screening Levels in Table A-1

of the NMED Risk Assessment Guidance for Site Investigations and Remediation, Volume I, Soil Screening Guidance for Human Health Risk Assessments, November 2022 (excluding the columns titled “Tap Water Cancer”, “Tap Water Noncancer”, and “Cw, DAF 20”), as state in Stipulation 4, recognizing that laboratory detection limits must be at or below regulatory thresholds. The Sample location maps are included in Attachment 1.

#### Perimeter Berm Sampling Protocols and Sample Handling

Discrete samples will be collected from 4 equally spaced locations along the length of each berm to be sampled and combined into a single composite sample for analysis. Samples will be collected with a 3-inch diameter hand auger advanced to the 2-3’ below ground surface interval and the discrete samples collected from the auger and placed in a clean ziplock bag. Equal amounts of the discrete samples will then be combined into a single composite sample, mixed thoroughly and then a portion of the composite placed in a 4 oz. septum seal glass jar (obtained from Cardinal Laboratories in Hobbs, New Mexico) tightly compacted, then labeled with the sampler, collection time, date, and location ID, and then placed on ice. The sample will then be transported to Cardinal Laboratories in Hobbs, New Mexico and ascensioned under Chain-of-Custody to the lab for analysis.

## V. QUALITY ASSURANCE

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Sample integrity will be maintained and ensured in the field by using latex or nitrile rubber gloves and sampling tools that are cleaned/decontaminated prior to collecting each sample. Duplicate or Colocated field samples are not contemplated. The laboratory will provide analytical quality assurance sample data, i.e, duplicate and surrogate data, as a part of the analytical reports.

## VI. NMOCD SAMPLING EVENT NOTIFICATION

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Following approval of the Closure Sampling and Analysis Plan, EPI will coordinate with the NMOCD in scheduling the sampling event to accommodate event observation and the opportunity to collect split or colocated samples by the NMOCD.

## VII. REPORTING

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The analytical results will be summarized and submitted to the NMOCD upon receipt. Assuming the data will support “clean closure” and subsequent transitioning to Post-Closure, EPI will petition the NMOCD to allow EPI to begin the Post-Closure phase consistent with the permit.

## VIII. LANDFARM DESCRIPTION

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The landfarm property is owned by Environmental Plus, Inc. and located in Sections 14 and 15 of Township 22S Range 37E consisting of 15 cells ranging from 5.8 acres to 0.14 acres, total area used, i.e., including roads, buffer zones, and berms, is approximately 63 acres. Each cell is bermed to prevent run-off/run-in. An annotated site map is included as Figure 1. Oil & gas wells are located adjacent to the east and west with a plugged well located in Cell #1. The facility is also traversed by crude oil and natural gas pipelines. These



installations have not interfered with landfarm operation, however, drilling and production and transportation activities and may be the source of any historical contamination that may be found. The annotated site map of Oil and Gas Wells proximal to the EPI Landfarm is included as Figure 1a.

## IX. GROUND WATER ELEVATION DETERMINATION

An unused water well north and adjacent Cell #12 along the north perimeter of the landfarm was measured on July 14, 2018 and found to have a ground water level of ~62.0 feet below ground surface ('bgs). The surface elevation extrapolated from Google Earth is 3,375 feet above mean sea level ('amsl). The calculated ground water elevation is 3,313'amsl. Area water well data from the New Mexico Office of the State Engineer are presented in Table 1 – Environmental Plus, Inc. Landfarm Local Ground Water Information and the map as Figure 2. Please note the location of well CP 00673, as shown in Figure 2 of the New Mexico Office of the State Engineer (NMOSE) area water well map as being between cell 6 and 11 is not correct, the correct location is adjacent and north of Cell 12. A note attached to the NMOSE drilling record states that the location was changed due to gas. Calculated ground water elevations for water wells west of the site in Section 15 range from 3,206'amsl to 3,328'amsl. Estimated distance from the ground surface to the ground water interface ranges from 185'bgs to 75'bgs. Well CP 00581 is located approximately 1 mile east of the EPI Landfarm well in the opposite corner of Section 14 and has a water level of 65'bgs and a calculated ground water elevation of 3,280'amsl. This data is consistent with the local southeast ground water gradient declining into Monument Draw. The EPI Landfarm is situated along the somewhat regionally subdued west rim of the Monument Draw.

The available ground water data supports the conclusion that the ground water interface underlying the EPI Landfarm is >50'bgs but <100'bgs, therefore applying a Chloride concentration threshold of no more than 500 mg/kg, consistent with NMAC 19.15.36.15.D.

## X. 19.15.36.15.B – BACKGROUND TESTING

The Minor Modification will preclude establishing Background concentrations for the CoCs, however, in late 2019 and early 2020, background samples were collected outside the bermed perimeter of the landfarm in accordance with 19.15.36.15.B-Background Testing.

### Discussion:

In 1993, the NMOCD requested a background sample be collected prior to receipt of waste. The sample was collected from "the center of the facility at a depth of about 18 inches" on August 31, 1993 and the analytical results submitted to the NMOCD on September 13, 1993. This sample, according to the sampler, was located in the center of Cell #1. The analytical suite included EPA method 418.1 for Total Petroleum Hydrocarbon (TPH) or Total Recoverable Petroleum Hydrocarbon (TRPHC), Benzene (8020), Toluene, Ethyl Benzene, Para-Xylene, Meta-Xylene, Ortho-Xylene, Total Xylene, Arsenic (As) (TCLP), Barium (Ba) (TCLP), Cadmium (Cd) (TCLP), Chromium (Cr) (TCLP), Lead (Pb) (TCLP), Mercury (Hg) (TCLP), Selenium (Se) (TCLP), Silver (Ag) (TCLP), Magnesium (CaCO<sub>3</sub>), Nitrate (NO<sub>3</sub>), Sulfate (SO<sub>4</sub>), and Chloride (Cl). Note that the metals were analyzed after undergoing the Toxicity Characteristic Leaching Procedure (TCLP), making the results not comparable to results from samples analyzed by EPA methods 6010b or 6020 not having undergone the TCLP.

A second sample was collected at the request of the NMOCD on November 22, 1994 again from the center of Cell #1 at a depth of about 18 inches and analyzed for TPH (418.1) and BTEX. For each sample, nominal detections of TPH and BTEX were identified, however, significant Chloride concentrations were identified, i.e., 49 mg/Kg and 1,840 mg/Kg, respectively. The 1993 and 1994 background data are presented in Attachment 3 - ANALYTICAL RESULTS SUMMARY. The source of these detections are most likely residuals from historical drilling activities from the now plugged and abandoned oil well (API-30-025-2247) in the center of Cell #1. Several other oil and gas wells are located adjacent to the landfarm along with associated product handling facilities. i.e., tanks batteries and pipelines, and have been in production since the 1970s. See Figure 1a – Oil and Gas Wells proximal to the EPI Landfarm.

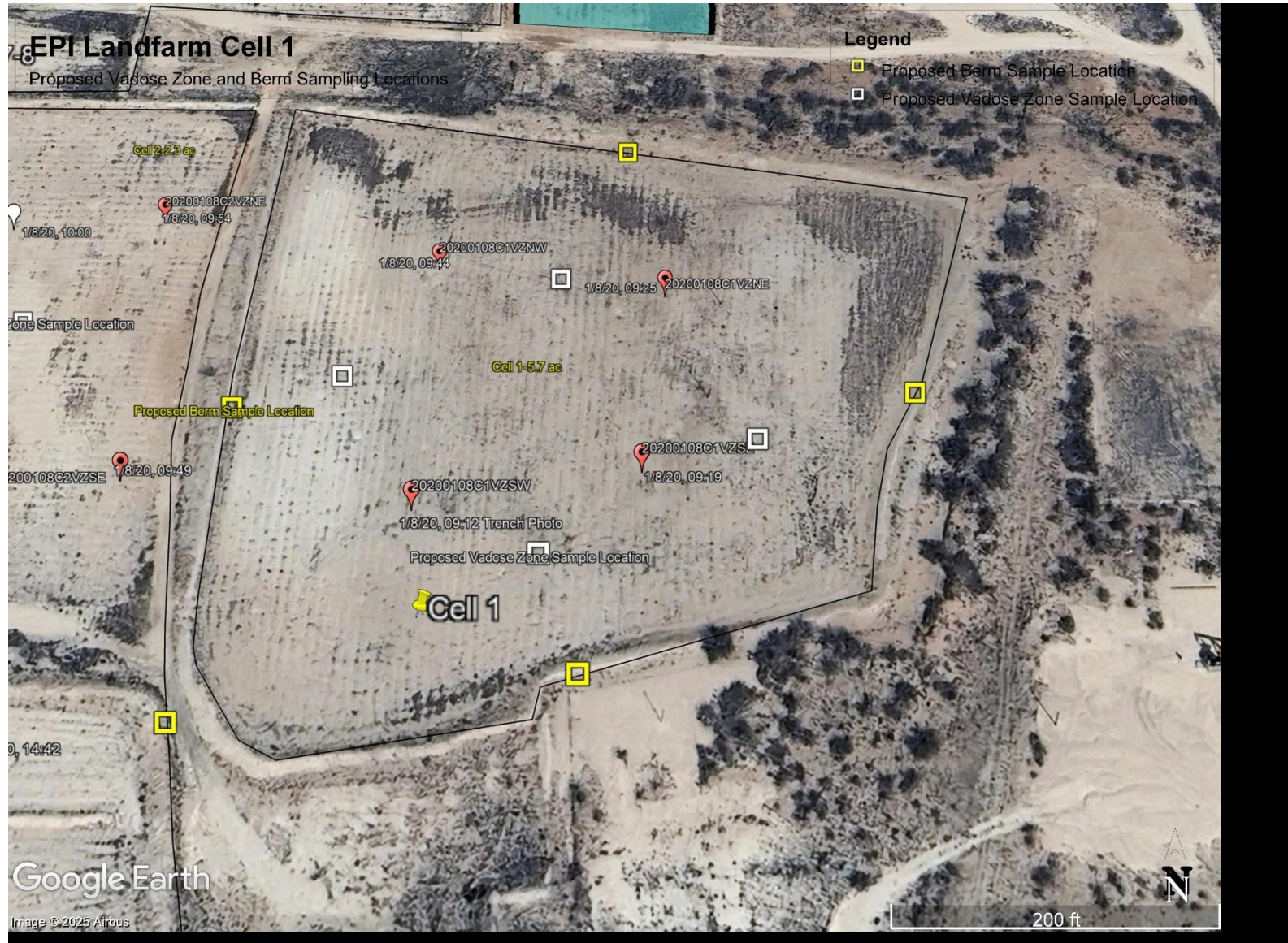
#### Preliminary Background Study:

In December 2019 and again in October 2020, in a preliminary effort to assess local background concentrations and achieve the lowest “Practical Quantitation Limits (PQLs)” from the laboratory, a series of 12 composite samples, each consisting of 3 discrete samples were collected from undisturbed areas between the perimeter fence of the facility and the berms of the outer cells along the 4 cardinal radians and from the central staging area of the landfarm at an interval between 3 and 4’ below the original ground surface, i.e. the same interval from which the Vadose Zone samples are to be collected per rule 36. See Figure 3 – Background Composite Sample Areas. Data are presented in Attachment 3 - ANALYTICAL RESULTS SUMMARY “Environmental Plus Landfarm - Vadose Zone Background Monitoring Results.” The PQLs for the Total Petroleum Hydrocarbon (TPH) components ranged from <4.7 mg/Kg to <10.0 mg/Kg and for Chloride the PQLs ranged from <3.0 mg/Kg to <60.0 mg/Kg. The assumption is that background concentrations of the anthropogenic TPH should be 0.0 mg/Kg, however, the laboratory PQLs are not sufficiently low to quantify with certainty “0.0 mg/Kg.” TPH (C6-C36) was detected in the preliminary background samples collected along the east and the south facility perimeter ranging from 49.0 to 228.0 mg/Kg while BTEX compounds were not detected above the detection limits. All preliminary background samples analyzed for Chloride were less than the detection limits except for the “Center W” sample collected from the central staging area northeast of Cell #1 which was reported to have a concentration of 91 mg/Kg. No impacted soil had ever been placed in the staging area.

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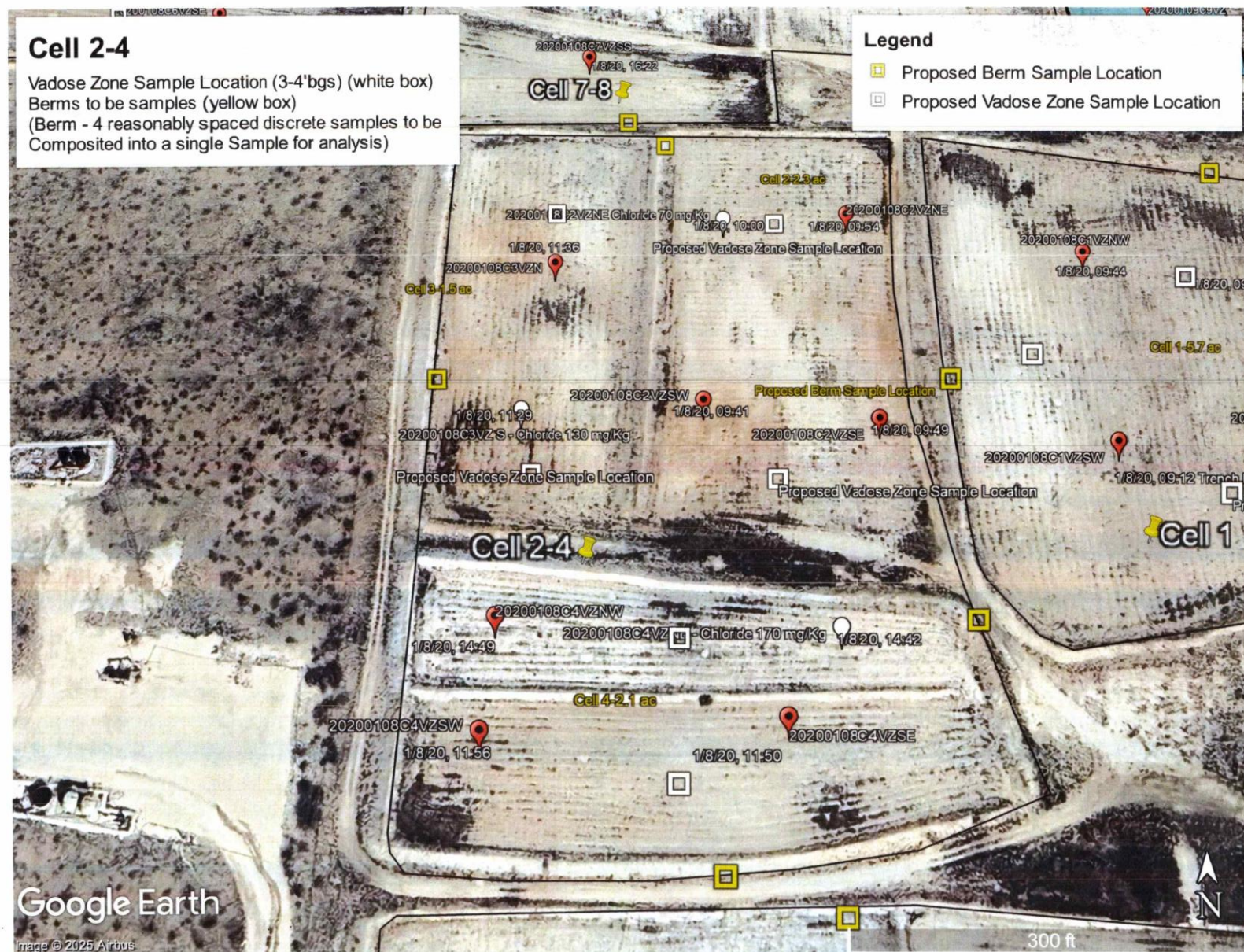
## ATTACHMENT 1 – SAMPLE LOCATION MAPS

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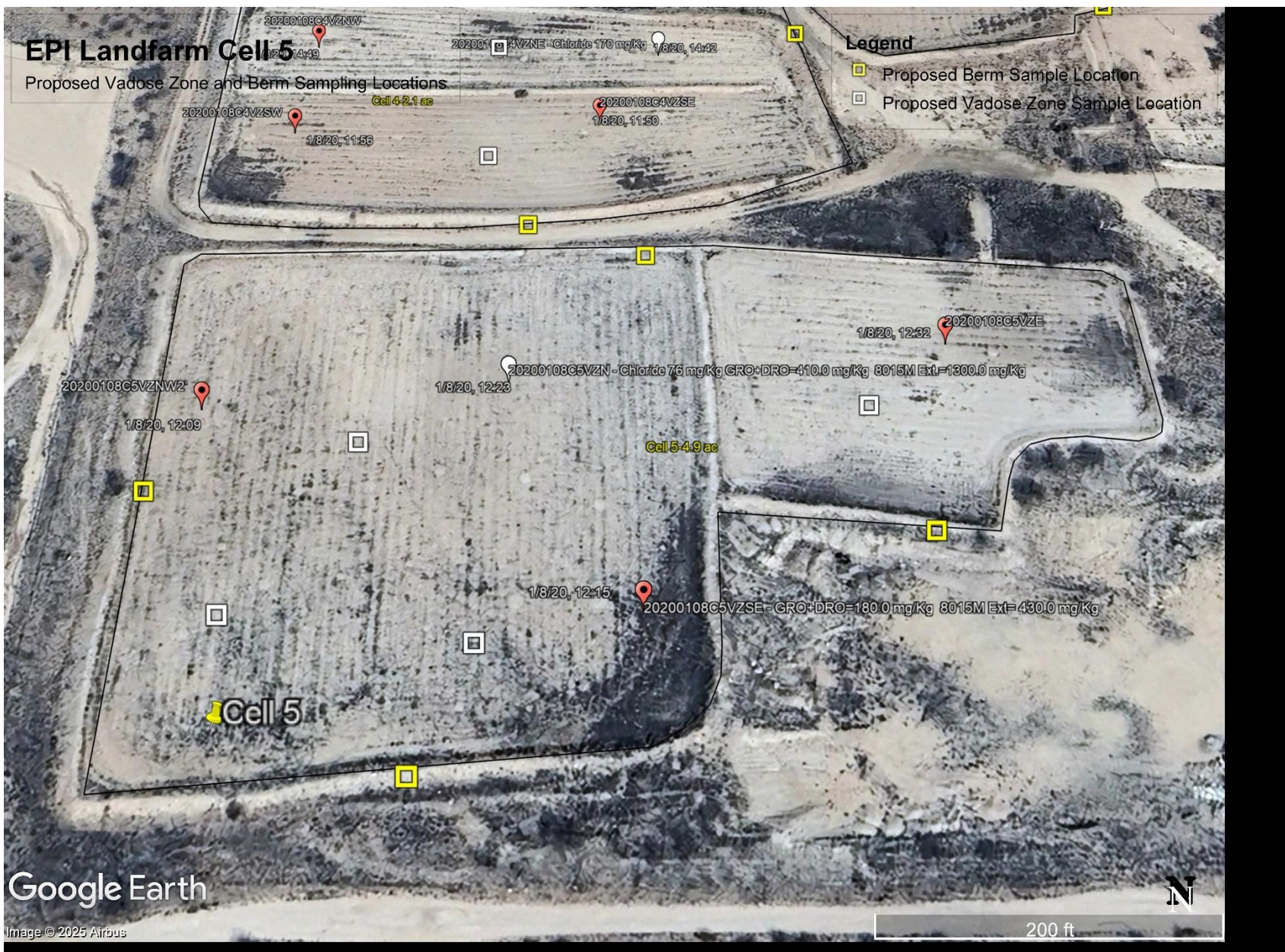


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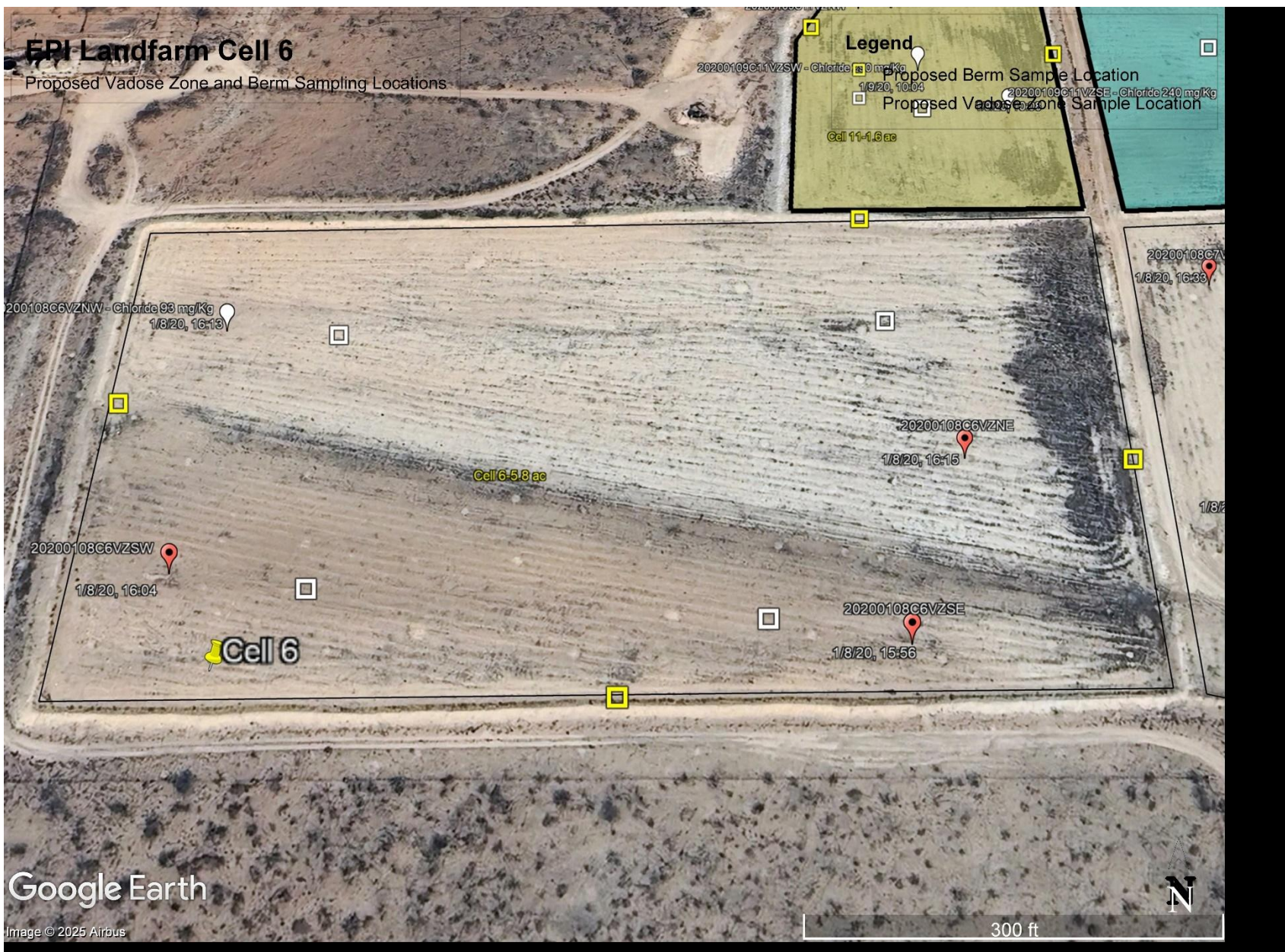


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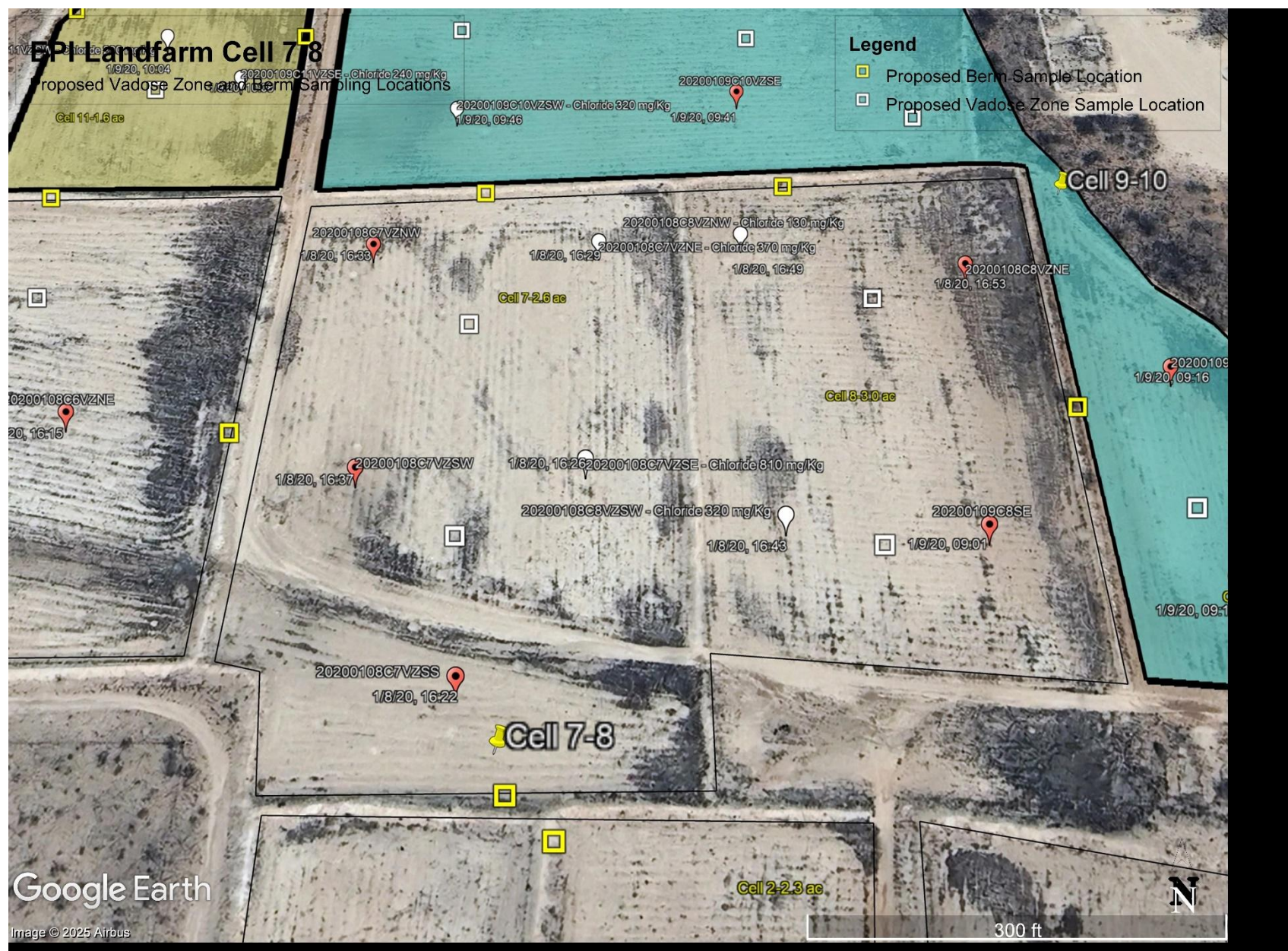


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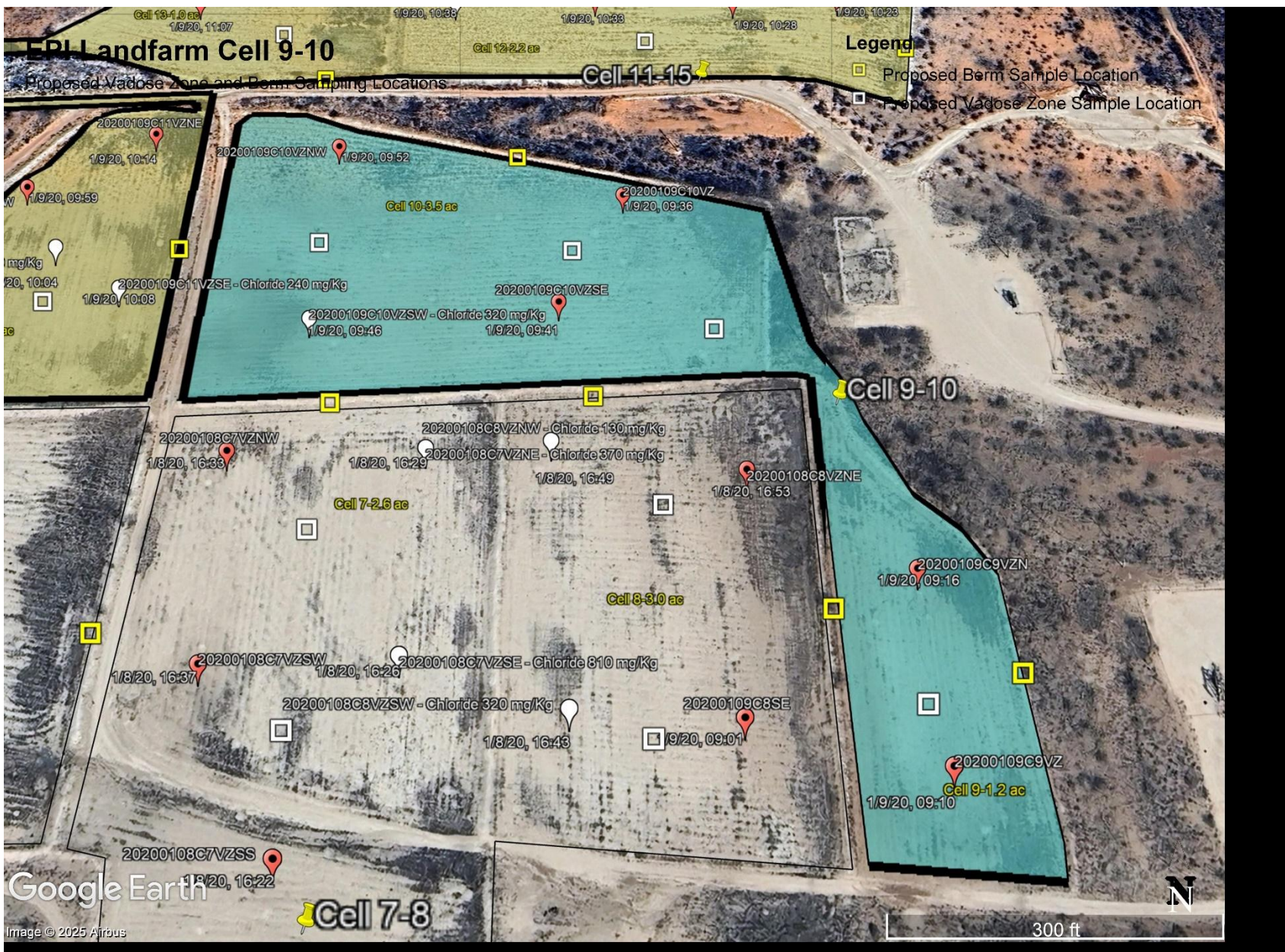


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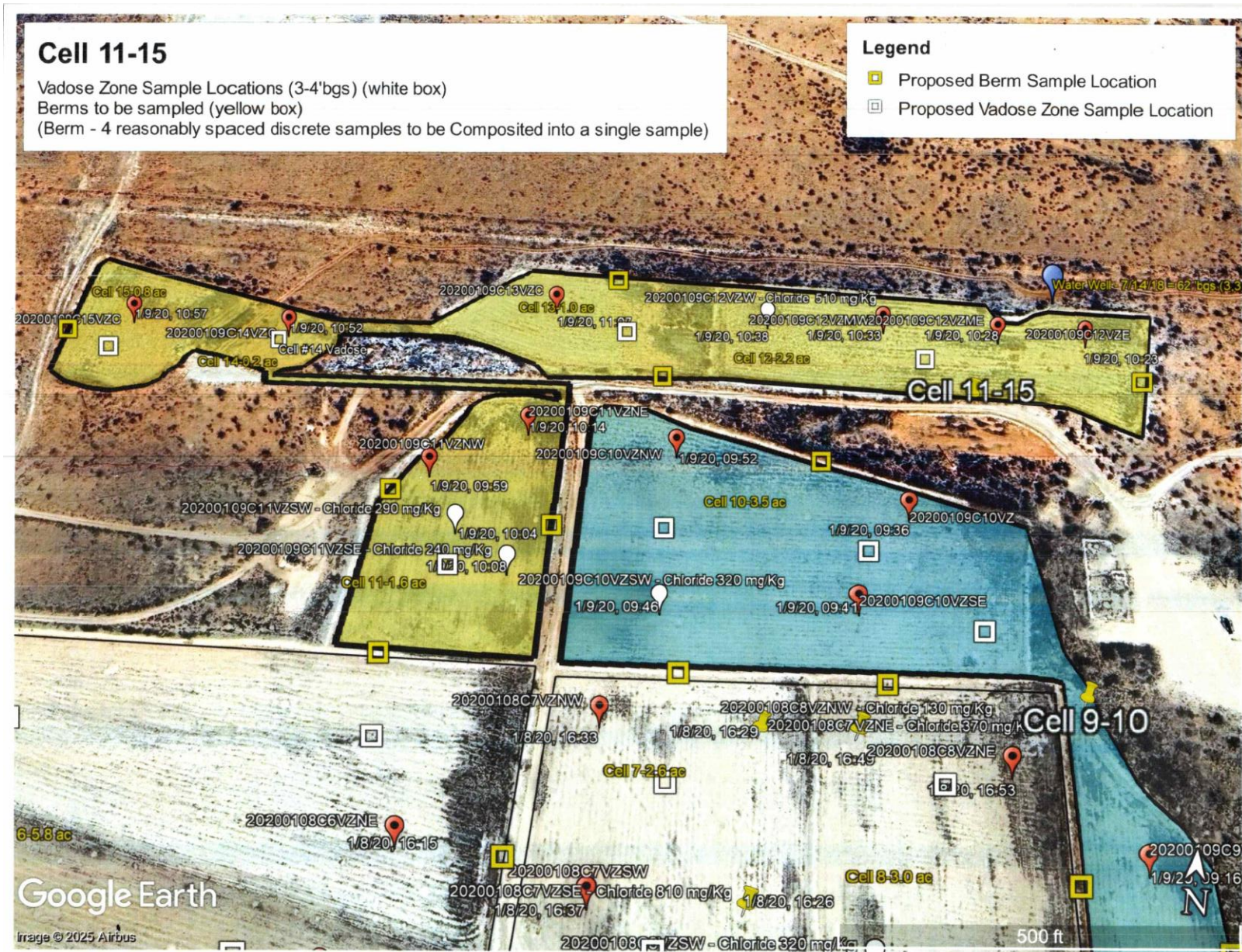


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## ATTACHMENT 2 – MAPS & FIGURES



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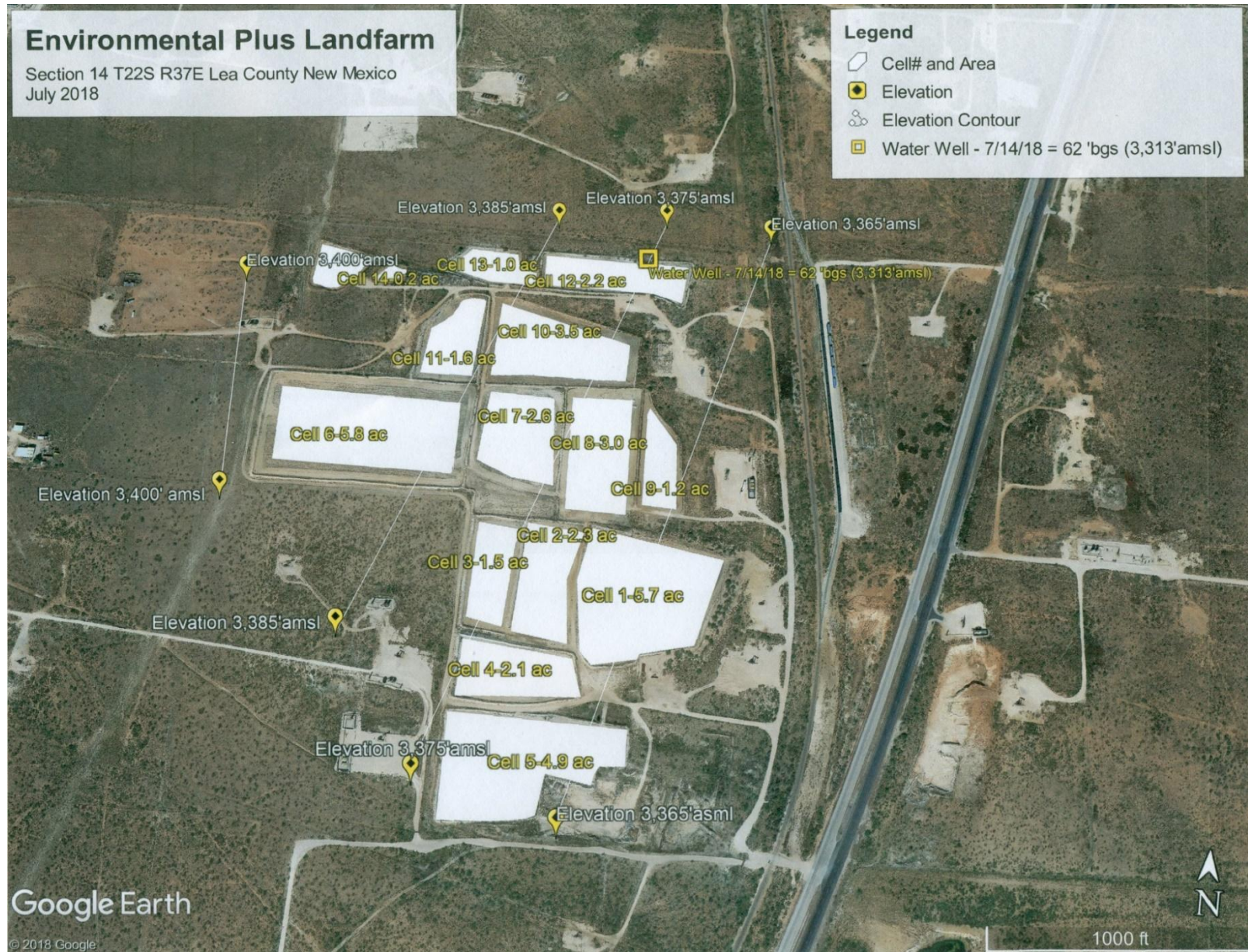


Figure 1 – EPI Landfarm Map



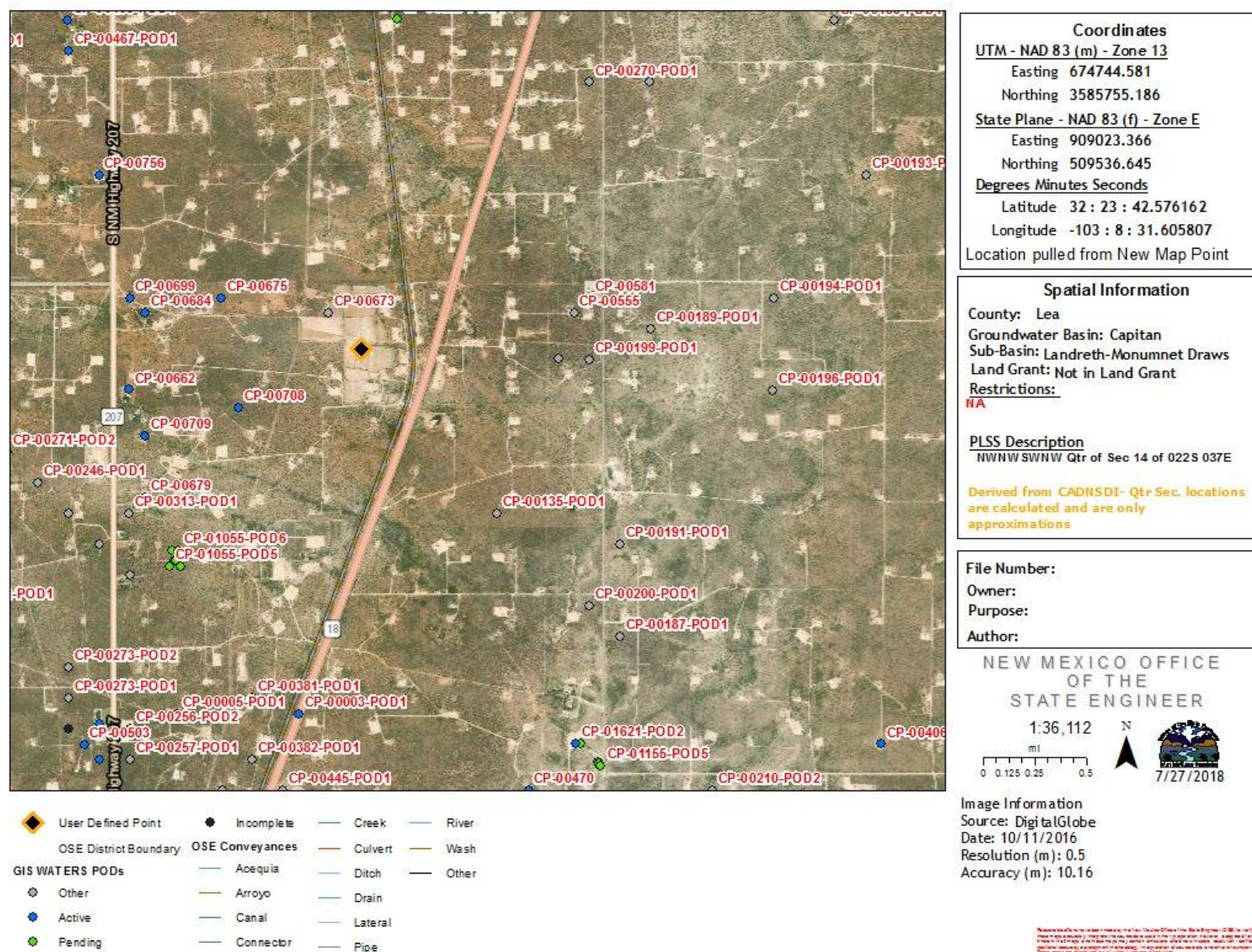
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Figure 1a – Oil and Gas Wells proximal to the EPI Landfarm



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## Figure 2 – Area Water Wells



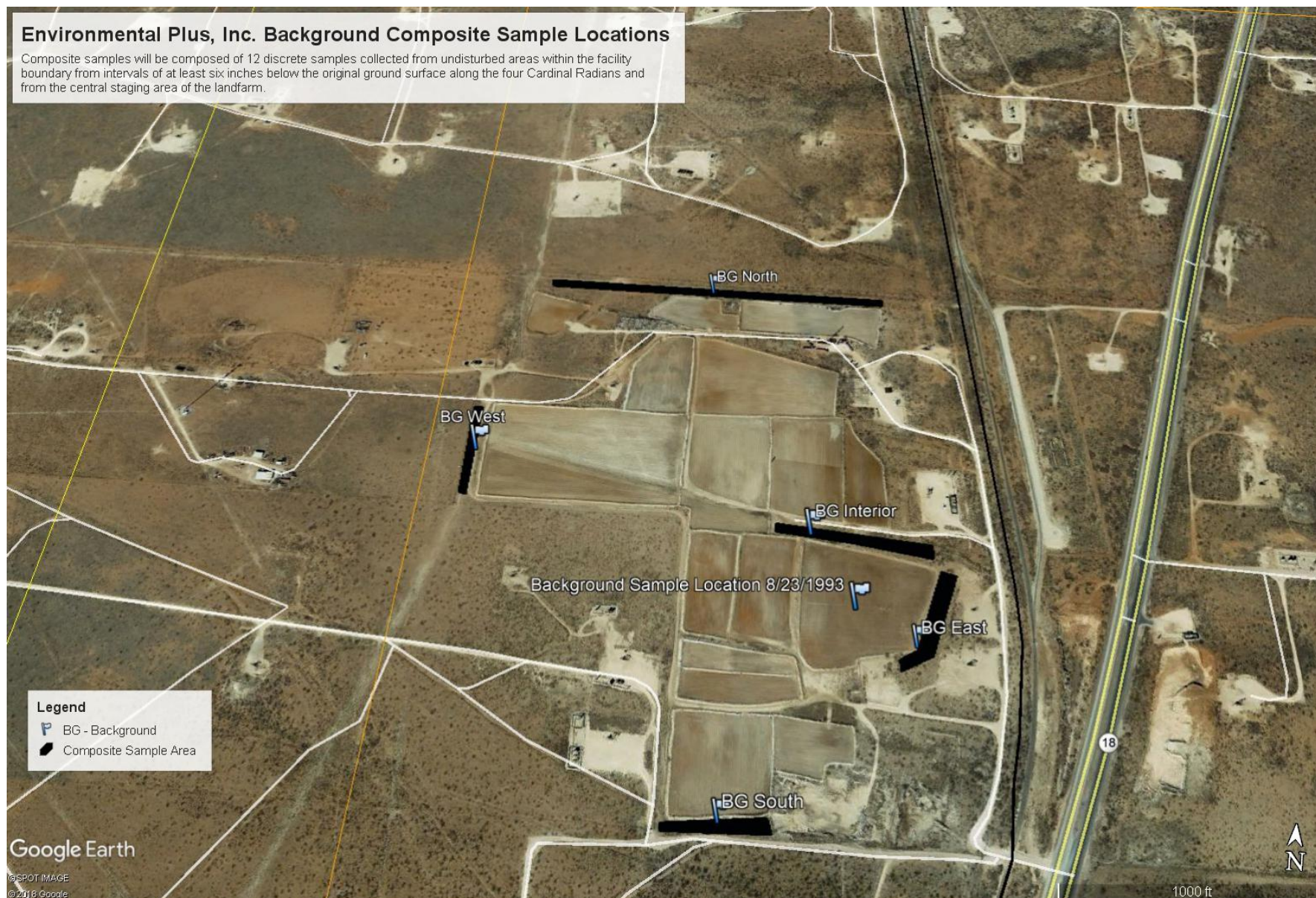


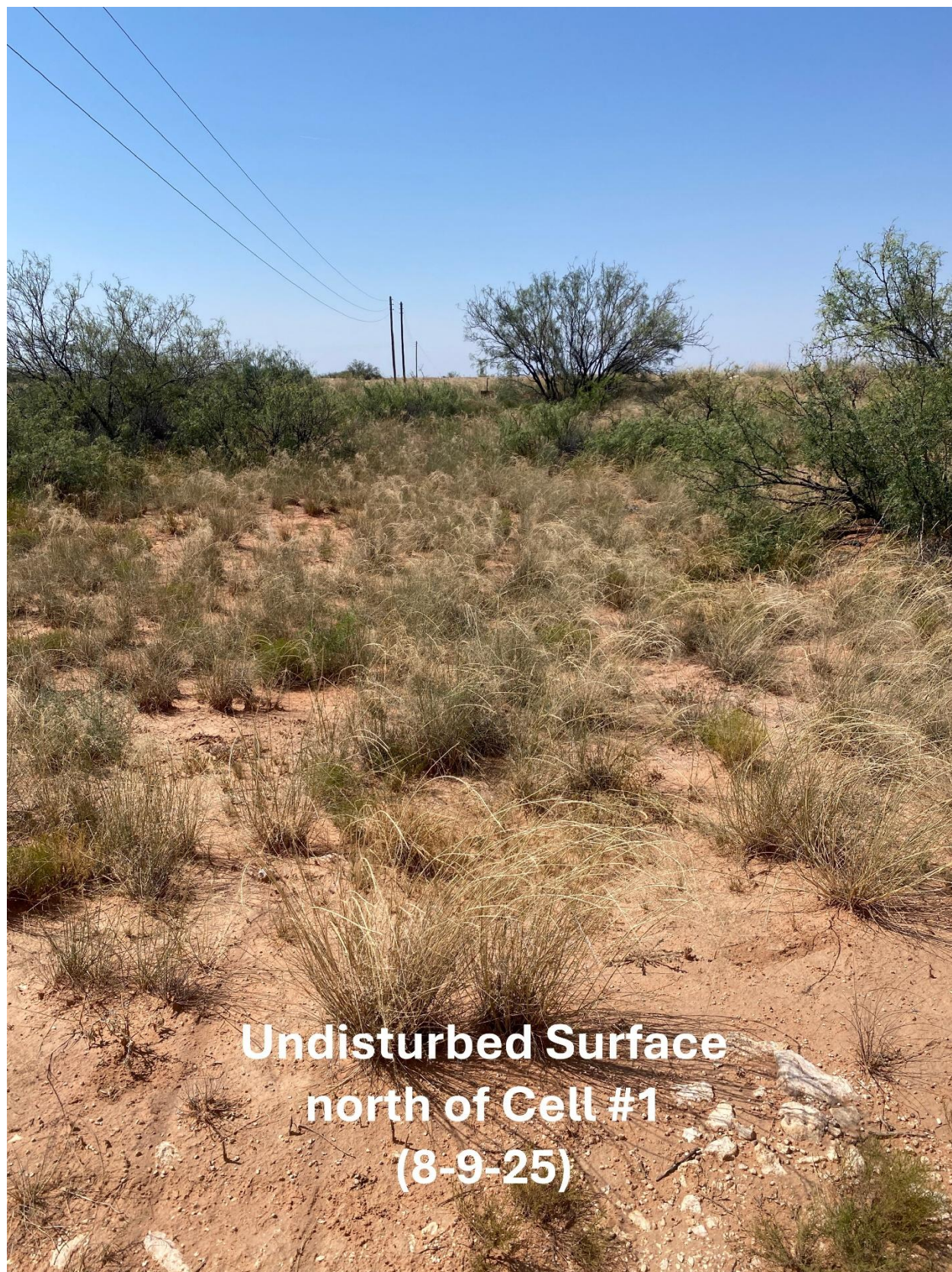
Figure 3 – Background Composite Sample Areas

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## ATTACHMENT 3 – Cell Photographs



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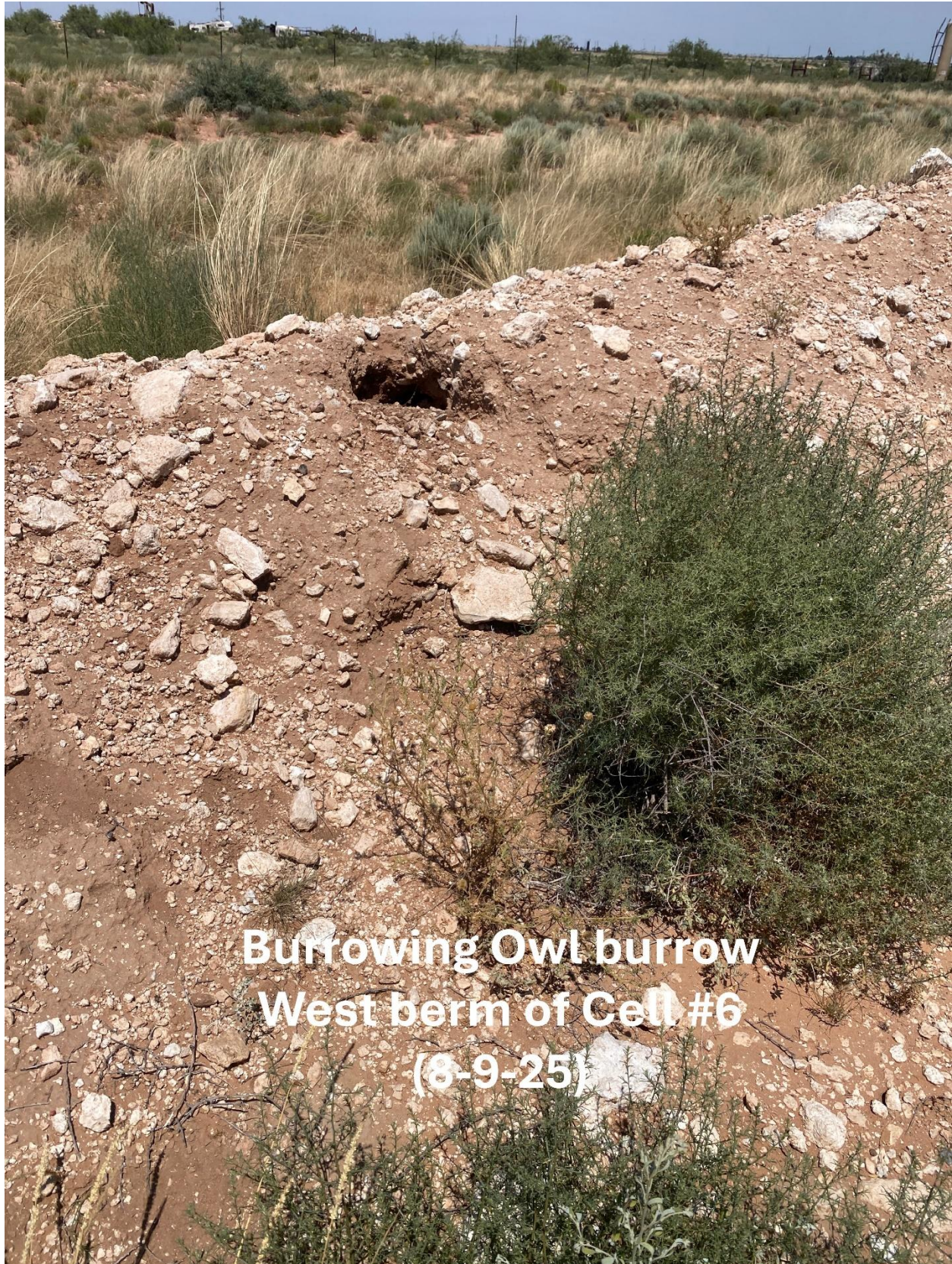
## ATTACHMENT 4 – Borrowing Owls Photographs and “eBird” observations

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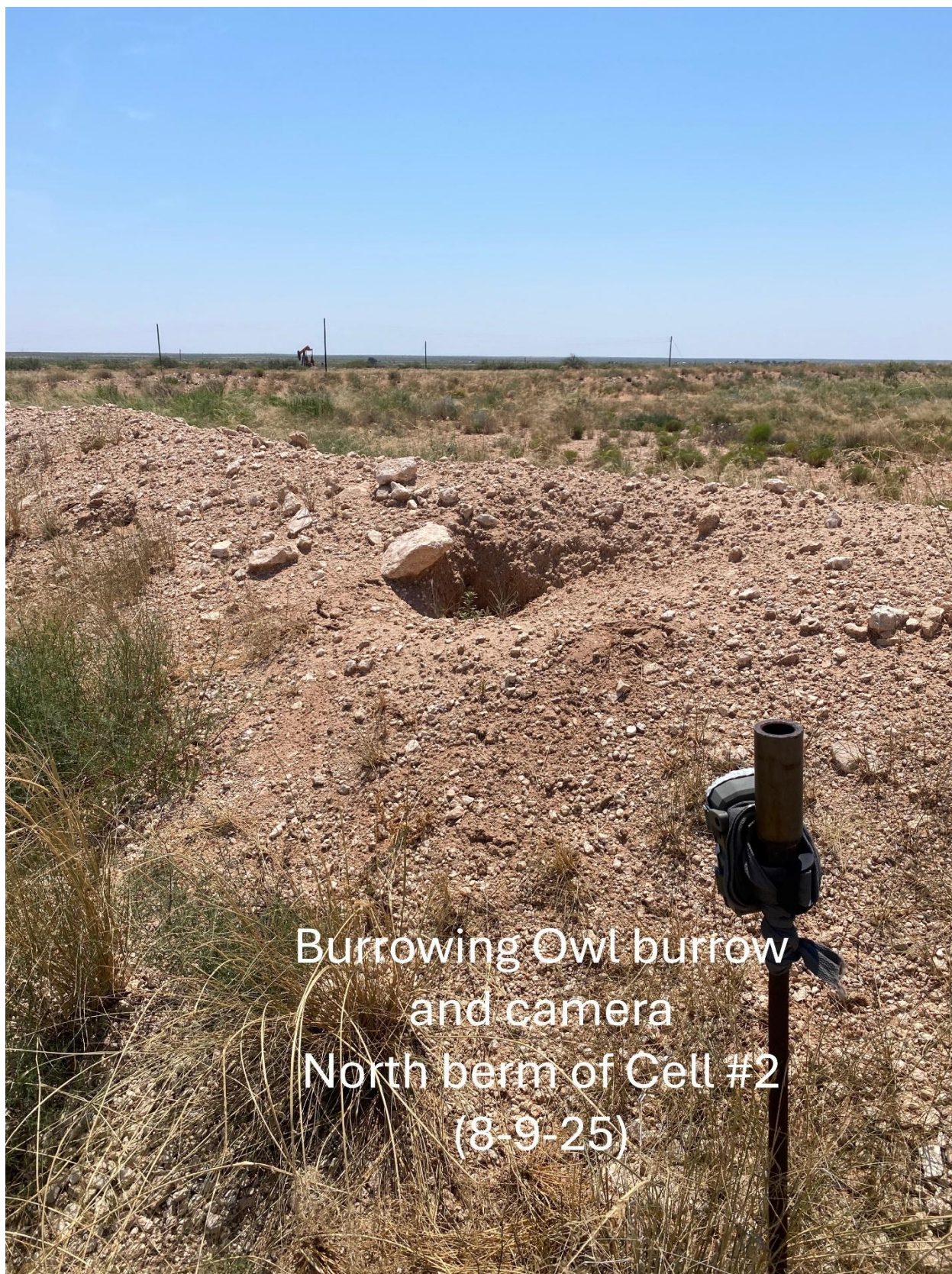


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Burrowing Owl burrow  
and camera  
North berm of Cell #2  
(8-9-25)



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Burrowing Owl owlets outside the burrow in Cell #2 north berm.




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Burrowing Owl owlets outside the burrow in Cell #2 north berm.



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	DATE/TIME	LOCATION	COUNTY	STATE/PROVINCE	REGION
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10.	29 Jul 2023 6:41 PM	EPI Landfarm	Lea	New Mexico	United States
9.	16 May 2023 2:05 PM	EPI Landfarm	Lea	New Mexico	United States
8.	06 May 2023 6:24 PM	EPI Landfarm	Lea	New Mexico	United States
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


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Environmental Plus, Inc. Landfarm  
Minor Modification: Closure Plan and Post Closure Plan October 2025  
Permit #NM-1-013

## ATTACHMENT 5 - TABLES



Environmental Plus, Inc. Landfarm  
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Table 1 – Ground Water Information

Environmental Plus Landfarm Local Ground Water Information																
POD <sup>1</sup> Number	Data Source	Date	q64	q16	q4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column	Surface Elevation <sup>5</sup>	Calculated Ground Water Elevation	Estimated distance from ground surface to ground water interface
											'bgs' <sup>3</sup>	'bgs'	feet	'amsl' <sup>4</sup>	'amsl'	feet
CP 00708	NMOSE <sup>2</sup>					15	22S	37E	673941	3585363	200	185	15	3391	3206	185
CP 00684	NMOSE			1	1	15	22S	37E	673316	3585967	200	180	20	3403	3223	180
CP 00662	NMOSE		3	3	1	15	22S	37E	673223	3585464	180	150	30	3414	3264	150
CP 00581	NMOSE	NA	2	2	2	14	22S	37E	676229	3586116	125	65	60	3345	3280	65
CP 00679	NMOSE	NA		3	3	15	22S	37E	673338	3584760	164	98	66	3400	3302	98
CP 00699	NMOSE	NA	1	1	1	15	22S	37E	673215	3586066	163	100	63	3409	3309	100
EPI Landfarm Well	Measured	7/14/2018	1	1	1	14	22S	37E	674826	3586161	104	62	42	3375	3313	62
CP 00709	NMOSE	NA		1	3	15	22S	37E	673331	3585163	200	87	113	3406	3319	87
CP 00674	NMOSE	NA		1	1	15	22S	37E	673316	3585967	100	75	25	3403	3328	75
CP 00195 POD1	NMOSE	NA	4	1	1	12	22S	37E	676602	3587532	70	NA	NA	NA	NA	NA
CP 00199 POD1	NMOSE	NA	2	4	2	14	22S	37E	676237	3585714	75	NA	NA	NA	NA	NA
CP 00313 POD1	NMOSE	NA	3	3	3	15	22S	37E	673237	3584659	100	NA	NA	NA	NA	NA
CP 00675	NMOSE	NA	2	2	1	15	22S	37E	673817	3586073	100	NA	NA	NA	NA	NA
CP 00673	NMOSE	NA		2	2	15	22S	37E	674522	3585989	NA	NA	NA	NA	NA	NA
<sup>1</sup> POD - Point of Diversion																
<sup>2</sup> NMOSE - New Mexico Office of the State Engineer																
<sup>3</sup> 'bgs' - Feet below ground surface																
<sup>4</sup> 'amsl' - Feet above mean sea level																
<sup>5</sup> Surface Elevation - Obtained from Google Earth																



**Table A-1: NMED Soil Screening Levels**  
**(Risk Assessment Guidance for Investigations and Remediation Volume I November 2022)**

<b>Table A-1: NMED Soil Screening Levels</b> <b>(Risk Assessment Guidance for Investigations and Remediation Volume I November 2022)</b>											
Chemical	CAS	Residential Soil, Cancer (mg/kg)	Residential Soil, Noncancer (mg/kg)	Industrial/ Occupational Soil, Cancer (mg/kg)	Industrial/ Occupational Soil, Noncancer (mg/kg)	Construction Worker Soil, Cancer (mg/kg)	Construction Worker Soil, Noncancer (mg/kg)	Tap Water, Cancer (µg/L)	Tap Water, Noncancer (µg/L)	Cw, DAF 20 (mg/kg)	Cw, DAF 2.2 (mg/kg)
Antimony	7440-36-0		3.13E+01		5.19E+02		1.42E+02		7.26E+00	6.56E+00	
Arsenic	7440-38-2	7.07E+00	1.30E+01	3.59E+01	2.08E+02	2.16E+02	4.12E+01	8.55E-01	3.55E+00	5.83E+00	
Barium	7440-39-3		1.56E+04		2.55E+05		4.39E+03		3.28E+03	2.70E+03	
Beryllium	7440-41-7	6.44E+04	1.56E+02	3.13E+05	2.58E+03	2.71E+03	1.48E+02		1.24E+01	1.96E+02	
Cadmium	7440-43-9	8.59E+04	7.05E+01	4.17E+05	1.11E+03	3.61E+03	7.21E+01		6.24E+00	9.39E+00	
Chromium (Total)		9.66E+01	4.52E+04	5.05E+02	3.14E+05	4.68E+02	1.34E+02	5.70E+00	1.17E+04	2.05E+05	
Copper	7440-50-8		3.13E+03		5.19E+04		1.42E+04		7.90E+02	9.15E+02	
Iron	7439-89-6		5.48E+04		9.08E+05		2.48E+05		1.38E+04	6.96E+03	
Lead	7439-92-1									2.70E+02	2.97E+01
Manganese	7439-96-5		1.05E+04		1.60E+05		4.64E+02		2.02E+03	2.63E+03	
Mercury (elemental)	7439-97-6		2.38E+01		1.12E+02		2.07E+01		6.26E-01	2.09E+00	
Selenium	7782-49-2		3.91E+02		6.49E+03		1.75E+03		9.87E+01	1.02E+01	
Silver	7440-22-4		3.91E+02		6.49E+03		1.77E+03		8.12E+01	1.38E+01	
Thallium	7440-28-0		7.82E-01		1.30E+01		3.54E+00		1.97E-01	2.85E+00	
Zinc	7440-66-6		2.35E+04		3.89E+05		1.06E+05		5.96E+03	7.41E+03	

Yellow highlight indicates the most conservative Soil Screening Levels (SSL) for the respective Constituent of Concern.

**Lead SSL:** The EPA doesn't provide an exposure level for Lead in Table A-1. The calculated value being proposed is based on a previously NMOC approved Dilution Attenuation Factor (DAF) of 2.2 for concentrations listed in Table A-3 of the November 2022 Risk Assessment Guidance document.



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## ATTACHMENT 6 - ANALYTICAL RESULTS SUMMARY

Environmental Plus Landfarm - Vadose Zone Monitoring																	
Organic Analytical Results																	
Sample				GRO <sup>2</sup> (8015M) C <sub>6</sub> -C <sub>10</sub>	DRO <sup>3</sup> (8015M) >C <sub>10</sub> -C <sub>28</sub>	GRO+DRO C <sub>6</sub> -C <sub>28</sub>	MRO <sup>4</sup> (8015M) >C <sub>28</sub> -C <sub>36</sub>	TPH <sup>5</sup> (418.1) C <sub>6</sub> -C <sub>36</sub>	Benzene	Toluene	Ethyl Benzene	Para- Xylene	Meta- Xylene	Ortho- Xylene	Total Xylenes	Total BTEX	MTBE
Cell	ID#	Date	Int. 'bgs	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)
1	--	11/27/00	2	na	na	na	na	na	<0.05	<0.05	<0.05	na	na	na	<0.05	<0.05	na
1	--	11/11/03	2	<0.25	<25.0	<25.0	na	na	<0.005	<0.005	<0.005	P with M	0.011	<0.005	0.011	0.022	na
1	--	11/5/04	2	na	na	na	na	na	na	na	na	na	na	na	na	na	na
1	--	5/25/05	2	<10.0	<10.0	<10.0	na	na	<.002	<.002	<.002	na	na	na	<.006	<.002	<.002
1	20200108C1VZ SW	1/8/20	3-4	<4.9	<9.9	<9.9	<49	<49	<0.025	<0.049	<0.049	--	--	--	<0.098	<0.221	na
1	20200108C1VZ SE	1/8/20	3-4	<4.9	<9.3	<9.3	<47	<47	<0.024	<0.049	<0.049	--	--	--	<0.097	<0.219	na
1	20200108C1VZ NE	1/8/20	3-4	<4.9	<10.0	<10.0	<50	<50	<0.025	<0.049	<0.049	--	--	--	<0.099	<0.222	na
1	20200108C1VZ NW	1/8/20	3-4	<4.8	<9.9	<9.9	<49	<49	<0.024	<0.048	<0.048	--	--	--	<0.097	<0.217	na
1	20200108C1VZ COMP	1/8/20	3-4	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2	--	11/27/00	2	na	na	na	na	na	<0.05	<0.05	<0.05	na	na	na	<0.05	<0.05	na
2	--	11/11/03	2	<0.25	<25.0	<25.0	na	na	<0.005	<0.005	<0.005	P with M	<0.01	<0.005	<0.01	<0.005	na
2	--	11/5/04	2	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2	--	5/25/05	2	<10.0	<10.0	<10.0	na	na	<.002	<.002	<.002	na	na	na	<.006	<.002	<.002
2	20200108C2VZ SW	1/8/20	3-4	<4.7	<9.8	<9.8	<49	<49	<0.024	<0.047	<0.047	--	--	--	<0.095	<0.213	na
2	20200108C2VZ SE	1/8/20	3-4	<5.0	<9.7	<9.7	<49	<49	<0.025	<0.050	<0.050	--	--	--	<0.099	<0.224	na
2	20200108C2VZ NE	1/8/20	3-4	<4.8	<9.9	<9.9	<50	<50	<0.024	<0.048	<0.048	--	--	--	<0.095	<0.215	na
2	20200108C2VZ NW	1/8/20	3-4	<4.7	<9.9	<9.9	<50	<50	<0.024	<0.047	<0.047	--	--	--	<0.095	<0.213	na
2	20200108C2VZ COMP	1/8/20	3-4	na	na	na	na	na	na	na	na	na	na	na	na	na	na
3	--	11/27/00	2	na	na	na	na	na	<0.05	<0.05	<0.05	na	na	na	<0.05	<0.05	na
3	--	11/11/03	2	<0.25	<25.0	<25.0	na	na	<0.005	<0.005	<0.005	P with M	<0.01	<0.005	<0.01	<0.005	na
3	--	11/5/04	2	na	na	na	na	na	na	na	na	na	na	na	na	na	na



Environmental Plus Landfarm - Vadose Zone Monitoring																	
Organic Analytical Results																	
Sample				GRO <sup>2</sup> (8015M) C <sub>6</sub> -C <sub>10</sub>	DRO <sup>3</sup> (8015M) >C <sub>10</sub> -C <sub>28</sub>	GRO+DRO C <sub>6</sub> -C <sub>28</sub>	MRO <sup>4</sup> (8015M) >C <sub>28</sub> -C <sub>36</sub>	TPH <sup>5</sup> (418.1) C <sub>6</sub> -C <sub>36</sub>			Ethyl Benzene	Para- Xylene	Meta- Xylene	Ortho- Xylene	Total Xylenes	Total BTEX	MTBE
Cell	ID#	Date	Int. 'bgs	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)
3	--	5/25/05	2	<10.0	<10.0	<10.0	na	na	<.002	<.002	<.002	na	na	na	<.006	<.002	<.002
3	20200108C3VZ S	1/8/20	3-4	<4.9	<9.2	<9.2	<46	<46	<0.024	<0.049	<0.049	--	--	--	<0.098	<0.220	na
3	20200108C3VZ N	1/8/20	3-4	<4.9	<9.7	<9.7	<48	<48	<0.025	<0.049	<0.049	--	--	--	<0.099	<0.222	na
3	20200108C3VZ COMP	1/8/20	3-4	na	na	na	na	na	na	na	na	na	na	na	na	na	na
4	--	11/27/00	2	na	na	na	na	na	<0.05	<0.05	<0.05	na	na	na	<0.05	<0.05	na
4	--	11/11/03	2	<0.25	<25.0	<25.0	na	na	<0.005	<0.005	<0.005	P with M	<0.01	<0.005	<0.01	<0.005	na
4	--	11/5/04	2	na	na	na	na	na	na	na	na	na	na	na			na
4	--	5/25/05	2	<10.0	<10.0	<10.0	na	na	<.002	<.002	<.002	na	na	na	<.006	<.002	<.002
4	20200108C4VZ SE	1/8/20	3-4	<5.0	<9.5	<9.5	<47	<47	<0.025	<0.050	<0.050	--	--	--	<0.099	<0.224	na
4	20200108C4VZ SW	1/8/20	3-4	<4.9	<9.6	<9.6	<48	<48	<0.024	<0.047	<0.047	--	--	--	<0.098	<0.216	na
4	20200108C4VZ NW	1/8/20	3-4	<5.0	<9.2	<9.2	<46	<46	<0.025	<0.050	<0.050	--	--	--	<0.099	<0.224	na
4	20200108C4VZ NE	1/8/20	3-4	<4.9	<9.5	<9.5	<47	<47	<0.025	<0.049	<0.049	--	--	--	<0.099	<0.222	na
4	20200108C4VZ COMP	1/8/20	3-4	na	na	na	na	na	na	na	na	na	na	na	na	na	na
5	--	11/27/00	2	na	na	na	na	na	<0.05	<0.05	<0.05	na	na	na	<0.05	<0.05	na
5	--	11/11/03	2	<0.25	<25.0	<25.0	na	na	<0.005	<0.005	<0.005	P with M	<0.01	<0.005	<0.01	<0.005	na
5	--	11/5/04	2	na	na	na	na	na	na	na	na	na	na	na	na	na	na
5	--	5/25/05	2	<10.0	<10.0	<10.0	na	na	<.002	<.002	<.002	na	na	na	<.006	<.002	<.002
5	20200108C5VZ NW	1/8/20	*	<4.8	67.0	67.0	200.0	267.0	<0.024	<0.048	<0.048	--	--	--	<0.096	<0.216	na
5	20200108C5VZ SE	1/8/20	*	<4.9	180.0	180.0	430.0	610.0	<0.025	<0.049	<0.049	--	--	--	<0.099	<0.222	na
5	20200108C5VZ N	1/8/20	*	<4.8	410.0	410.0	1300.0	1710.0	<0.024	<0.048	<0.048	--	--	--	<0.097	<0.217	na
5	20200108C5VZ E	1/8/20	*	<4.7	<9.2	<9.2	<46	<46	<0.024	<0.047	<0.047	--	--	--	<0.095	<0.213	na

Environmental Plus Landfarm - Vadose Zone Monitoring																	
Organic Analytical Results																	
Sample				GRO <sup>2</sup> (8015M) C <sub>6</sub> -C <sub>10</sub>	DRO <sup>3</sup> (8015M) >C <sub>10</sub> -C <sub>28</sub>	GRO+DRO C <sub>6</sub> -C <sub>28</sub>	MRO <sup>4</sup> (8015M) >C <sub>28</sub> -C <sub>36</sub>	TPH <sup>5</sup> (418.1) C <sub>6</sub> -C <sub>36</sub>			Ethyl Benzene	Para- Xylene	Meta- Xylene	Ortho- Xylene	Total Xylenes	Total BTEX	MTBE
Cell	ID#	Date	Int. 'bgs	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)
5	20200108C5VZ COMP	1/8/20	*	na	na	na	<48	<48	na	na	na	na	na	na	na	na	na
6	--	11/27/00	2	na	na	na	na	na	<0.05	<0.05	<0.05	na	na	na	<0.05	<0.05	na
6	--	11/11/03	2	<0.25	<25.0	<25.0	na	na	<0.005	<0.005	<0.005	P with M	<0.01	<0.005	<0.01	<0.005	na
6	--	11/5/04	2	na	na	na	na	na	na	na	na	na	na	na	na	na	na
6	--	5/25/05	2	<10.0	<10.0	<10.0	na	na	<.002	<.002	<.002	na	na	na	<.006	<.002	<.002
6	20200108C6VZ SE	1/8/20	3-4	<4.9	<9.2	<9.2	na	na	<0.025	<0.049	<0.049	--	--	--	<0.097	<0.217	na
6	20200108C6VZ SW	1/8/20	3-4	<5.0	<9.8	<9.8	<47	<47	<0.025	<0.050	<0.050	--	--	--	<0.10	<0.225	na
6	20200108C6VZ NW	1/8/20	3-4	<4.7	<8.9	<8.9	<48	<48	<0.023	<0.047	<0.047	--	--	--	<0.094	<0.211	na
6	20200108C6VZ NE	1/8/20	3-4	<4.9	<9.9	<9.9	<46	<46	<0.025	<0.049	<0.049	--	--	--	<0.099	<0.219	na
6	20200108C6VZ COMP	1/8/20	3-4	na	na	na	<47	<47	na	na	na	na	na	na	na	na	na
7	--	11/27/00	2	na	na	na	na	na	<0.05	<0.05	<0.05	na	na	na	<0.05	<0.05	na
7	--	11/11/03	2	<0.25	<25.0	<25.0	na	na	<0.005	<0.005	<0.005	P with M	<0.01	<0.005	<0.01	<0.005	na
7	--	11/5/04	2	na	na	na	na	na	na	na	na	na	na	na	na	na	na
7	--	5/25/05	2	<10.0	<10.0	<10.0	na	na	<.002	<.002	<.002	na	na	na	<.006	<.002	<.002
7	20200108C7VZ SS	1/8/20	3-4	<4.7	<8.3	<8.3	na	na	<0.023	<0.047	<0.047	--	--	--	<0.094	<0.211	na
7	20200108C7VZ SE	1/8/20	3-4	<4.7	<9.5	<9.5	<48	<48	<0.024	<0.047	<0.047	--	--	--	<0.094	<0.212	na
7	20200108C7VZ NE	1/8/20	3-4	<4.7	<9.5	<9.5	<48	<48	<0.024	<0.047	<0.047	--	--	--	<0.094	<0.212	na
7	20200108C7VZ NW	1/8/20	3-4	<4.7	<8.9	<8.9	<44	<44	<0.023	<0.047	<0.047	--	--	--	<0.094	<0.211	na
7	20200108C7VZ SW	1/8/20	3-4	<4.9	<8.9	<8.9	<45	<45	<0.025	<0.049	<0.049	--	--	--	<0.099	<0.219	na
7	20200108C7VZ COMP	1/8/20	3-4	na	na	na	na	na	na	na	na	na	na	na	na	na	na



Environmental Plus Landfarm - Vadose Zone Monitoring																	
Organic Analytical Results																	
Sample				GRO <sup>2</sup> (8015M) C <sub>6</sub> -C <sub>10</sub>	DRO <sup>3</sup> (8015M) >C <sub>10</sub> -C <sub>28</sub>	GRO+DRO C <sub>6</sub> -C <sub>28</sub>	MRO <sup>4</sup> (8015M) >C <sub>28</sub> -C <sub>36</sub>	TPH <sup>5</sup> (418.1) C <sub>6</sub> -C <sub>36</sub>			Ethyl Benzene	Para- Xylene	Meta- Xylene	Ortho- Xylene	Total Xylenes	Total BTEX	MTBE
Cell	ID#	Date	Int. 'bgs	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)
8	--	11/11/03	2	<0.25	<25.0	<25.0	na	na	<0.005	<0.005	<0.005	P with M	<0.01	<0.005	<0.01	<0.005	na
8	--	11/5/04	2	na	na	na	na	na	na	na	na	na	na	na	na	na	na
8	--	5/25/05	2	<10.0	<10.0	<10.0	na	na	<.002	<.002	<.002	na	na	na	<.006	<.002	<.002
8	20200108C8VZ SW	1/8/20	3-4	<4.8	<10.0	<10.0	<50	<50	<0.024	<0.048	<0.048	--	--	--	<0.096	<0.216	na
8	20200108C8VZ NW	1/8/20	3-4	<4.8	<9.2	<9.2	<46	<46	<0.024	<0.048	<0.048	--	--	--	<0.095	<0.215	na
8	20200108C8VZ NE	1/8/20	3-4	<4.7	<9.6	<9.6	<48	<48	<0.023	<0.047	<0.047	--	--	--	<0.093	<0.210	na
8	20200109C8VZ SE	1/9/20	3-4	<4.8	<10.0	<10.0	<50	<50	<0.024	<0.048	<0.048	--	--	--	<0.097	<0.217	na
8	20200109C8VZ COMP	1/9/20	3-4	na	na	na	na	na	na	na	na	na	na	na	na	na	na
9	--	11/11/03	2	<0.25	<25.0	<25.0	na	na	<0.005	<0.005	<0.005	P with M	<0.01	<0.005	<0.01	<0.005	na
9	--	11/5/04	2	na	na	na	na	na	na	na	na	na	na	na	na	na	na
9	--	5/25/05	2	<10.0	<10.0	<10.0	na	na	<.002	<.002	<.002	na	na	na	<.006	<.002	<.002
9	20200109C9VZ S	1/9/20	3-4	<4.9	<9.4	<9.4	<47	<47	<0.025	<0.049	<0.049	--	--	--	<0.099	<0.219	na
9	20200109C9VZ N	1/9/20	3-4	<4.8	<9.5	<9.5	<47	<47	<0.024	<0.048	<0.048	--	--	--	<0.096	<0.216	na
9	20200109C9VZ COMP	1/9/20	3-4	na	na	na	na	na	na	na	na	na	na	na	na	na	na
10	--	11/11/03	2	<0.25	<25.0	<25.0	na	na	<0.005	<0.005	<0.005	P with M	<0.01	<0.005	<0.01	<0.005	na
10	--	11/5/04	2	na	na	na	na	na	na	na	na	na	na	na	na	na	na
10	--	5/25/05	2	<10.0	<10.0	<10.0	na	na	<.002	<.002	<.002	na	na	na	<.006	<.002	<.002
10	20200109C10VZ NW	1/9/20	3-4	<4.8	<9.7	<9.7	<48	<48	<0.024	<0.048	<0.048	--	--	--	<0.097	<0.217	na
10	20200109C10VZ NE	1/9/20	3-4	<4.9	<9.6	<9.6	<48	<48	<0.025	<0.049	<0.049	--	--	--	<0.099	<0.219	na
10	20200109C10VZ SE	1/9/20	3-4	<4.8	<9.8	<9.8	<49	<49	<0.024	<0.048	<0.048	--	--	--	<0.095	<0.215	na

Environmental Plus Landfarm - Vadose Zone Monitoring																	
Organic Analytical Results																	
Sample				GRO <sup>2</sup> (8015M) C <sub>6</sub> -C <sub>10</sub>	DRO <sup>3</sup> (8015M) >C <sub>10</sub> -C <sub>28</sub>	GRO+DRO C <sub>6</sub> -C <sub>28</sub>	MRO <sup>4</sup> (8015M) >C <sub>28</sub> -C <sub>36</sub>	TPH <sup>5</sup> (418.1) C <sub>6</sub> -C <sub>36</sub>			Ethyl Benzene	Para- Xylene	Meta- Xylene	Ortho- Xylene	Total Xylenes	Total BTEX	MTBE
Cell	ID#	Date	Int. 'bgs	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)
10	20200109C10VZ SW	1/9/20	3-4	<4.8	<9.9	<9.9	<50	<50	<0.024	<0.048	<0.048	--	--	--	<0.095	<0.215	na
10	20200109C10VZ COMP	1/9/20	3-4	na	na	na	na	na	na	na	na	na	na	na	na	na	na
11	--	11/11/03	2	<0.25	<25.0	<25.0	na	na	<0.005	<0.005	<0.005	P with M	<0.01	<0.005	<0.01	<0.005	na
11	--	11/5/04	2	na	na	na	na	na	na	na	na	na	na	na	na	na	na
11	--	5/25/05	2	<10.0	<10.0	<10.0	na	na	<.002	<.002	<.002	na	na	na	<.006	<.002	<.002
11	20200109C11VZ NW	1/9/20	3-4	<4.8	<9.8	<9.8	<49	<49	<0.024	<0.048	<0.048	--	--	--	<0.096	<0.216	na
11	20200109C11VZ SW	1/9/20	3-4	<4.8	<9.9	<9.9	<49	<49	<0.024	<0.048	<0.048	--	--	--	<0.096	<0.216	na
11	20200109C11VZ SE	1/9/20	3-4	<4.8	<9.1	<9.1	<45	<45	<0.024	<0.048	<0.048	--	--	--	<0.095	<0.215	na
11	20200109C11VZ NE	1/9/20	3-4	<4.8	<9.7	<9.7	<49	<49	<0.024	<0.048	<0.048	--	--	--	<0.096	<0.216	na
11	20200109C11VZ COMP	1/9/20	3-4	na	na	na	na	na	na	na	na	na	na	na	na	na	na
12	--	11/11/03	2	<0.25	<25.0	<25.0	na	na	<0.005	<0.005	<0.005	P with M	<0.01	<0.005	<0.01	<0.005	na
12	--	11/5/04	2	na	na	na	na	na	na	na	na	na	na	na	na	na	na
12	--	5/25/05	2	<10.0	<10.0	<10.0	na	na	<.002	<.002	<.002	na	na	na	<.006	<.002	<.002
12	20200109C12VZ E	1/9/20	3-4	<4.8	<9.6	<9.6	<48	<48	<0.024	<0.048	<0.048	--	--	--	<0.095	<0.215	na
12	20200109C12VZ ME	1/9/20	3-4	<4.9	<9.8	<9.8	<49	<49	<0.025	<0.049	<0.049	--	--	--	<0.099	<0.219	na
12	20200109C12VZ MW	1/9/20	3-4	<4.8	<9.7	<9.7	<48	<48	<0.024	<0.048	<0.048	--	--	--	<0.096	<0.216	na
12	20200109C12VZ W	1/9/20	3-4	<4.9	<9.3	<9.3	<47	<47	<0.025	<0.049	<0.049	--	--	--	<0.098	<0.218	na
12	20200109C12VZ COMP	1/9/20	3-4	na	na	na	na	na	na	na	na	na	na	na	na	na	na
13	--	11/5/04	2	na	na	na	na	na	na	na	na	na	na	na	na	na	na
13	--	5/25/05	2	<10.0	<10.0	<10.0	na	na	<.002	<.002	<.002	na	na	na	<.006	<.002	<.002



Environmental Plus Landfarm - Vadose Zone Monitoring																	
Organic Analytical Results																	
Sample				GRO <sup>2</sup> (8015M) C <sub>6</sub> -C <sub>10</sub>	DRO <sup>3</sup> (8015M) >C <sub>10</sub> -C <sub>28</sub>	GRO+DRO C <sub>6</sub> -C <sub>28</sub>	MRO <sup>4</sup> (8015M) >C <sub>28</sub> -C <sub>36</sub>	TPH <sup>5</sup> (418.1) C <sub>6</sub> -C <sub>36</sub>	Benzene	Toluene	Ethyl Benzene	Para- Xylene	Meta- Xylene	Ortho- Xylene	Total Xylenes	Total BTEX	MTBE
Cell	ID#	Date	Int. 'bgs	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)
13	20200109C13VZ C	1/9/20	3-4	<4.8	<9.8	<9.8	<49	<49	<0.024	<0.048	<0.048	--	--	--	<0.097	<0.217	na
14	20200109C14VZ C	1/9/20	3-4	<4.9	<9.6	<9.6	<48	<48	<0.025	<0.049	<0.049	--	--	--	<0.099	<0.219	na
15	20200109C15VZ C	1/9/20	3-4	<4.8	<9.4	<9.4	<47	<47	<0.024	<0.048	<0.048	--	--	--	<0.095	<0.215	na
13	20200109C131415VZ COMP	1/9/20	3-4	na	na	na	na	na	na	na	na	na	na	na	na	na	na
<sup>1</sup> Regulatory Thresholds						1000		2500	10							50	
na - not analyzed                      'bgs - feet below ground surface <sup>1</sup> CoCs listed in Table 1 of 19.15.29.12.E.2 (51 feet-100 feet bgs) <sup>2</sup> GRO – Gasoline Range Organics <sup>3</sup> DRO - Diesel Range Organics <sup>4</sup> MRO – Motor Oil Range Organics <sup>5</sup> TPH – Total Petroleum Hydrocarbon																	

Environmental Plus Landfarm - Vadose Zone Monitoring																			
Inorganic Analytical Results																			
Sample				Chloride (Cl <sup>-</sup> ) (SM4500Cl-B)	Antimony (An) 6010B	Arsenic (As) (6010B)	Barium (Ba) (6010B)	Beryllium (Be) (6010B)	Cadmium (Cd) (6010B)	Chromium (Cr) (6010B)	Copper (Cu) (6010B)	Iron (Fe) (6010B)	Lead (Pb) (6010B)	Manganese (Mn) (6010B)	Total Mercury (Hg) (6010B)	Selenium (Se) (6010B)	Thallium (Tl) (6010B)	Silver (Ag) (6010B)	Zinc (Zn) (6010B)
Cell	ID#	Date	Int. 'bgs	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)
1	--	11/27/00	2	na	na	0.01	2.12	na	<0.002	<0.006	na	na	<0.005	na	<0.0004	<0.01	na	<0.005	na
1	--	11/11/03	2	na	na	<0.02	1.0	na	<0.02	<0.02	na	na	<0.05	na	<0.0002	<0.05	na	<0.04	na
1	--	11/05/04	2	na	na	<1	<5	na	<0.1	<1	na	na	<1	na	<0.02	<0.1	na	<1	na
1	--	05/25/05	2	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
1	20200108C1VZ SW	01/08/20	3-4	<60	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
1	20200108C1VZ SE	01/08/20	3-4	<60	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
1	20200108C1VZ NE	01/08/20	3-4	<60	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
1	20200108C1VZ NW	01/08/20	3-4	<60	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
1	20200108C1VZ COMP	01/08/20	3-4	na	<5.1	<5.1	320	<0.30	<0.20	3.0	1.4	3300	<0.51	22	<0.033	<5.1	<2.00	2.6	6
2	--	11/27/00	2	na	na	0.02	1.75	na	<0.002	<0.006	na	na	<0.005	na	<0.0002	<0.01	na	<0.005	na
2	--	11/11/03	2	na	na	<0.02	1.3	na	<0.02	<0.02	na	na	<0.05	na	<0.0002	<0.05	na	<0.04	na
2	--	11/05/04	2	na	na	<1	<5	na	<0.1	<1	na	na	<1	na	<0.02	<0.1	na	<1	na
2	--	05/25/05	2	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2	20200108C2VZ SW	01/08/20	3-4	<60	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2	20200108C2VZ SE	01/08/20	3-4	<60	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2	20200108C2VZ NE	01/08/20	3-4	<60	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2	20200108C2VZ NW	01/08/20	3-4	70	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2	20200108C2VZ COMP	01/08/20	3-4	na	<5.1	<5.1	170	0.37	<0.20	5.1	3	6100	0.75	74	<0.033	<5.1	<2.00	0.85	13
3	--	11/27/00	2	na	na	0.21	0.866	na	<0.004	<0.012	na	na	0.02	na	<0.0002	<0.01	na	<0.005	na



Environmental Plus Landfarm - Vadose Zone Monitoring																			
Inorganic Analytical Results																			
Sample				Chloride (Cl-) (SM4500Cl-B)	Antimony (An) 6010B	Arsenic (As) (6010B)	Barium (Ba) (6010B)	Beryllium (Be) (6010B)	Cadmium (Cd) (6010B)	Chromium (Cr) (6010B)	Copper (Cu) (6010B)	Iron (Fe) (6010B)	Lead (Pb) (6010B)	Manganese (Mn) (6010B)	Total Mercury (Hg) (6010B)	Selenium (Se) (6010B)	Thallium (Tl) (6010B)	Silver (Ag) (6010B)	Zinc (Zn) (6010B)
Cell	ID#	Date	Int. 'bgs	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)
3	--	11/11/03	2	na	na	<0.02	1.1	na	<0.02	<0.02	na	na	<0.05	na	<0.0002	<0.05	na	<0.04	na
3	--	11/05/04	2	na	na	<1	<5	na	<0.1	<1	na	na	<1	na	<0.02	<0.1	na	<1	na
3	--	05/25/05	2	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
3	20200108C3VZ S	01/08/20	3-4	130	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
3	20200108C3VZ N	01/08/20	3-4	<60	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
3	20200108C3VZ COMP	01/08/20	3-4	na	<5.1	<5.1	420	<0.30	<0.20	2.2	2	2600	<0.51	20	<0.033	<5.1	<2.00	2.6	<5.1
4	--	11/27/00	2	na	na	<0.02	1.53	na	<0.004	<0.012	na	na	<0.01	na	<0.0002	<0.02	na	<0.01	na
4	--	11/11/03	2	na	na	<0.02	1.4	na	<0.02	<0.02	na	na	<0.05	na	<0.0002	<0.05	na	<0.04	na
4	--	11/05/04	2	na	na	<1	<5	na	<0.1	<1	na	na	<1	na	<0.02	<0.1	na	<1	na
4	--	05/25/05	2	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
4	20200108C4VZ SE	01/08/20	3-4	<60	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
4	20200108C4VZ SW	01/08/20	3-4	<60	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
4	20200108C4VZ NW	01/08/20	3-4	<60	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
4	20200108C4VZ NE	01/08/20	3-4	170	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
4	20200108C4VZ COMP	01/08/20	3-4	na	<5.0	<5.0	170	0.35	<0.20	4.8	2.7	5600	1.3	72	<0.034	<5.0	<2.00	0.94	13
5	--	11/27/00	2	na	na	0.05	1.56	na	<0.004	<0.012	na	na	<0.01	na	<0.0002	<0.02	na	<0.01	na
5	--	11/11/03	2	na	na	<0.02	1.0	na	<0.02	<0.02	na	na	<0.05	na	<0.0002	<0.05	na	<0.04	na
5	--	11/05/04	2	na	na	<1	<5	na	<0.1	<1	na	na	<1	na	<0.02	<0.1	na	<1	na
5	--	05/25/05	2	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
5	20200108C5VZ NW	01/08/20	*	<60	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
5	20200108C5VZ SE	01/08/20	*	<59	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
5	20200108C5VZ N	01/08/20	*	76	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na

Environmental Plus Landfarm - Vadose Zone Monitoring																			
Inorganic Analytical Results																			
Sample				Chloride (Cl-) (SM4500Cl-B)	Antimony (An) 6010B	Arsenic (As) (6010B)	Barium (Ba) (6010B)	Beryllium (Be) (6010B)	Cadmium (Cd) (6010B)	Chromium (Cr) (6010B)	Copper (Cu) (6010B)	Iron (Fe) (6010B)	Lead (Pb) (6010B)	Manganese (Mn) (6010B)	Total Mercury (Hg) (6010B)	Selenium (Se) (6010B)	Thallium (Tl) (6010B)	Silver (Ag) (6010B)	Zinc (Zn) (6010B)
Cell	ID#	Date	Int. 'bgs	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)
5	20200108C5VZ E	01/08/20	*	<60	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
5	20200108C5VZ COMP	01/08/20	*	na	<5.0	<5.0	210	0.3	<0.20	4.3	3.8	5000	23	53	<0.033	<5.0	<2.00	1.5	13
6	--	11/27/00	2	na	na	0.04	1.19	na	<0.004	<0.012	na	na	<0.01	na	<0.0002	<0.02	na	<0.01	na
6	--	11/11/03	2	na	na	<0.02	<0.1	na	<0.02	<0.02	na	na	<0.05	na	0.0003	<0.05	na	<0.04	na
6	--	11/05/04	2	na	na	<1	<5	na	<0.1	<1	na	na	<1	na	<0.02	<0.1	na	<1	na
6	--	05/25/05	2	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
6	20200108C6VZ SE	01/08/20	3-4	<60	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
6	20200108C6VZ SW	01/08/20	3-4	<60	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
6	20200108C6VZ NW	01/08/20	3-4	93	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
6	20200108C6VZ NE	01/08/20	3-4	<60	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
6	20200108C6VZ COMP	01/08/20	3-4	na	<5.1	<5.1	330	<0.30	<0.20	2.7	1.6	3300	<0.51	22	<0.033	7.5	<2.00	2.7	6.8
7	--	11/27/00	2	na	na	0.03	1.32	na	<0.004	<0.012	na	na	<0.01	na	<0.0002	<0.02	na	<0.01	na
7	--	11/11/03	2	na	na	<0.02	<0.1	na	<0.02	<0.02	na	na	<0.05	na	<0.0002	<0.05	na	<0.04	na
7	--	11/05/04	2	na	na	<1	<5	na	<0.1	<1	na	na	<1	na	<0.02	<0.1	na	<1	na
7	--	05/25/05	2	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
7	20200108C7VZ SS	01/08/20	3-4	<59	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
7	20200108C7VZ SE	01/08/20	3-4	810	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
7	20200108C7VZ NE	01/08/20	3-4	370	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
7	20200108C7VZ NW	01/08/20	3-4	<60	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
7	20200108C7VZ SW	01/08/20	3-4	<60	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
7	20200108C7VZ COMP	01/08/20	3-4	na	<5.0	<5.0	77	0.45	<0.20	7.3	3	8700	0.55	88	<0.033	<5.0	<2.00	<0.50	18



Environmental Plus Landfarm - Vadose Zone Monitoring																			
Inorganic Analytical Results																			
Sample				Chloride (Cl-) (SM4500Cl- B)	Antimony (An) 6010B	Arsenic (As) (6010B)	Barium (Ba) (6010B)	Beryllium (Be) (6010B)	Cadmium (Cd) (6010B)	Chromium (Cr) (6010B)	Copper (Cu) (6010B)	Iron (Fe) (6010B)	Lead (Pb) (6010B)	Manganese (Mn) (6010B)	Total Mercury (Hg) (6010B)	Selenium (Se) (6010B)	Thallium (Tl) (6010B)	Silver (Ag) (6010B)	Zinc (Zn) (6010B)
Cell	ID#	Date	Int. 'bgs	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)
8	--	11/11/03	2	na	na	<0.02	1.2	na	<0.02	<0.02	na	na	<0.05	na	0.0006	<0.05	na	<0.04	na
8	--	11/05/04	2	na	na	<1	<5	na	<0.1	<1	na	na	<1	na	<0.02	<0.1	na	<1	na
8	--	05/25/05	2	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
8	20200108C8VZ SW	01/08/20	3-4	320	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
8	20200108C8VZ NW	01/08/20	3-4	130	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
8	20200108C8VZ NE	01/08/20	3-4	<60	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
8	20200108C8VZ SE	01/08/20	3-4	<60	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
8	20200108C8VZ COMP	01/08/20	3-4	na	<4.9	<4.9	44	0.65	<0.20	10.0	1.5	12000	0.52	73	<0.033	<4.9	<2.00	<0.49	24
9	--	11/11/03	2	na	na	<0.02	1.2	na	<0.02	<0.02	na	na	<0.05	na	<0.0002	<0.05	na	<0.04	na
9	--	11/05/04	2	na	na	<1	<5	na	<0.1	<1	na	na	<1	na	<0.02	<0.1	na	<1	na
9	--	05/25/05	2	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
9	20200108C9VZ S	01/08/20	3-4	<60	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
9	20200108C9VZ N	01/08/20	3-4	<60	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
9	20200108C8VZ COMP	01/08/20	3-4	na	<4.8	<4.8	72	0.69	<0.19	9.9	1.9	12000	0.55	71	<0.033	<4.8	<2.00	<0.48	23
10	--	11/11/03	2	na	na	<0.02	1.2	na	<0.02	<0.02	na	na	<0.05	na	<0.0002	<0.05	na	<0.04	na
10	--	11/05/04	2	na	na	<1	<5	na	<0.1	<1	na	na	<1	na	<0.02	<0.1	na	<1	na
10	--	05/25/05	2	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
10	20200108C10VZ NW	01/08/20	3-4	<60	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
10	20200108C10VZ NE	01/08/20	3-4	<60	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
10	20200108C10VZ SE	01/08/20	3-4	<60	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
10	20200108C10VZ SW	01/08/20	3-4	320	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na

Environmental Plus Landfarm - Vadose Zone Monitoring																			
Inorganic Analytical Results																			
Sample				Chloride (Cl-) (SM4500Cl-B)	Antimony (An) 6010B	Arsenic (As) (6010B)	Barium (Ba) (6010B)	Beryllium (Be) (6010B)	Cadmium (Cd) (6010B)	Chromium (Cr) (6010B)	Copper (Cu) (6010B)	Iron (Fe) (6010B)	Lead (Pb) (6010B)	Manganese (Mn) (6010B)	Total Mercury (Hg) (6010B)	Selenium (Se) (6010B)	Thallium (Tl) (6010B)	Silver (Ag) (6010B)	Zinc (Zn) (6010B)
Cell	ID#	Date	Int. 'bgs	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)
10	20200108C10VZ COMP	01/08/20	3-4	na	<4.9	<4.9	84	0.83	<0.20	13.0	2.7	15000	<0.49	83	<0.033	<4.9	<2.00	<0.49	31
11	--	11/11/03	2	na	na	<0.02	<0.1	na	<0.02	<0.02	na	na	<0.05	na	<0.0002	<0.05	na	<0.04	na
11	--	11/05/04	2	na	na	<1	<5	na	<0.1	<1	na	na	<1	na	<0.02	<0.1	na	<1	na
11	--	05/25/05	2	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
11	20200108C11VZ NW	01/08/20	3-4	<60	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
11	20200108C11VZ SW	01/08/20	3-4	290	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
11	20200108C11VZ SE	01/08/20	3-4	240	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
11	20200108C11VZ NE	01/08/20	3-4	<60	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
11	20200108C11VZ COMP	01/08/20	3-4	na	<4.9	<4.9	53	0.67	<0.20	11.0	3.2	12000	<0.49	92	<0.033	<4.9	<2.00	<0.49	27
12	--	11/11/03	2	na	na	<0.02	<0.1	na	<0.02	<0.02	na	na	<0.05	na	0.0005	<0.05	na	<0.04	na
12	--	11/05/04	2	na	na	<1	<5	na	<0.1	<1	na	na	<1	na	<0.02	<0.1	na	<1	na
12	--	05/25/05	2	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
12	20200108C12VZ E	01/08/20	3-4	<60	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
12	20200108C12VZ ME	01/08/20	3-4	<60	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
12	20200108C12VZ MW	01/08/20	3-4	<60	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
12	20200108C12VZ W	01/08/20	3-4	510	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
12	20200108C12VZ COMP	01/08/20	3-4	na	<4.9	<4.9	110	0.4	<0.20	6.1	2.1	6900	<0.49	42	<0.032	<4.9	<2.00	0.73	13
13	--	11/05/04	2	na	na	<1	<5	na	<0.1	<1	na	na	<1	na	<0.02	<0.1	na	<1	na
13	--	05/25/05	2	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
13	20200108C13VZ C	01/08/20	3-4	<60	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
14	20200108C14VZ C	01/08/20	3-4	<60	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na



Environmental Plus Landfarm - Vadose Zone Monitoring																			
Inorganic Analytical Results																			
Sample				Chloride (Cl-) (SM4500Cl-B)	Antimony (An) 6010B	Arsenic (As) (6010B)	Barium (Ba) (6010B)	Beryllium (Be) (6010B)	Cadmium (Cd) (6010B)	Chromium (Cr) (6010B)	Copper (Cu) (6010B)	Iron (Fe) (6010B)	Lead (Pb) (6010B)	Manganese (Mn) (6010B)	Total Mercury (Hg) (6010B)	Selenium (Se) (6010B)	Thallium (Tl) (6010B)	Silver (Ag) (6010B)	Zinc (Zn) (6010B)
Cell	ID#	Date	Int. 'bgs	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)
15	20200108C15VZ C	01/08/20	3-4	<60	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
13	20200108C131415VZ COMP	01/08/20	3-4	na	<5.0	<5.0	55	0.32	<0.20	5.7	2.9	5800	1.5	69	<0.033	<5.0	<2.00	<0.50	13
<b><sup>1</sup>Regulatory Thresholds</b>				<b>10000</b>	<b>31.3</b>	<b>7.07</b>	<b>4390</b>	<b>148</b>	<b>70.5</b>	<b>96.6</b>	<b>3130</b>	<b>54800</b>	<b>29.7</b>	<b>464</b>	<b>20.7</b>	<b>391</b>	<b>.782</b>	<b>391</b>	<b>23500</b>
na - not analyzed                      'bgs - feet below original ground surface																			
<sup>1</sup> Most conservative exposure limits in Table A-1, NMED Soil Screening Levels (SSLs) from the November 2022 NMED Risk Assessment Guidance for Site Investigations and Remediation, Volume I, Soil Screening Guidance for Human Health Risk Assessments (excluding the columns titled “Tap Water Cancer”, “Tap Water Noncancer”, and “Cw, DAF 20”). For Chloride, Table 1 of 19.15.29.12.E.2 (51 feet-100 feet bgs) will apply.																			

Environmental Plus Landfarm - Treatment Zone Monitoring																
Organic Analytical Results																
Sample				GRO <sup>2</sup> (8015M) C <sub>6</sub> -C <sub>10</sub>	DRO <sup>3</sup> (8015M) >C <sub>10</sub> -C <sub>28</sub>	GRO+DRO C <sub>6</sub> -C <sub>28</sub>	MRO <sup>4</sup> (8015M) >C <sub>28</sub> -C <sub>36</sub>	TPH <sup>5</sup> C <sub>6</sub> -C <sub>36</sub>	Benzene	Toluene	Ethyl Benzene	Para- Xylene	Meta- Xylene	Ortho- Xylene	Total Xylenes	Total BTEX
Cell #	ID#	Date	Interval "bgs	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)
1	EPI20181130TZ-#1	11/30/18	0-8"bgs	<10.0	<10.0	0.0	17.1	17.1	<0.05	<0.05	<0.05	--	--	--	<0.150	<0.300
1	20190307EPIC1TZ	3/7/19	0-8"bgs	<4.7	18.0	18.0	140.0	158.0	<.023	<.047	<.047	--	--	--	<0.094	<0.211
1	20191212C1TZM	12/12/19	0-8"bgs	<4.7	26.0	26.0	140.0	166.0	<0.024	<0.047	<0.047	--	--	--	<0.094	<0.212
2	EPI20181130TZ-#2	11/30/18	0-8"bgs	<10.0	45.4	45.4	16.6	62.0	<0.05	<0.05	<0.05	--	--	--	<0.150	<0.300
2	20190307EPIC2TZ	3/7/19	0-8"bgs	<4.7	820.0	820.0	1600.0	2420.0	<.023	<.047	<.047	--	--	--	<0.094	<0.211
2	20191212C2TZM	12/12/19	0-8"bgs	<4.6	290.0	290.0	720.0	1010.0	<.023	<0.046	<0.046	--	--	--	<0.093	<0.208
3	EPI20181130TZ-#3	11/30/18	0-8"bgs	<10.0	43.4	43.4	22.2	65.6	<0.05	<0.05	<0.05	--	--	--	<0.150	<0.300
3	20190307EPIC3TZ	3/7/19	0-8"bgs	<4.8	120.0	120.0	340.0	460.0	<.024	<.048	<.048	--	--	--	<0.095	<0.215
3	20191212C3TZM	12/12/19	0-8"bgs	<4.9	33.0	33.0	130.0	163.0	<.024	<.049	<.049	--	--	--	<0.098	<.220
4	EPI20181130TZ-#4	11/30/18	0-8"bgs	<10.0	65.4	65.4	54.1	119.5	<0.05	<0.05	<0.05	--	--	--	<0.150	<0.300
4	20190307EPIC4TZ	3/7/19	0-8"bgs	<4.9	65.0	65.0	280.0	345.0	<.025	<.049	<.049	--	--	--	<0.098	<0.221
4	20191212C4TZM	12/12/19	0-8"bgs	<4.7	18.0	18.0	78.0	96.0	<.024	<.047	<.047	--	--	--	<0.095	<.220
5	EPI20181130TZ-#5	11/30/18	0-8"bgs	<10.0	<10.0	<10.0	<10.0	0.0	<0.05	<0.05	<0.05	--	--	--	<0.150	<0.300
5	20190307EPIC5TZ	3/7/19	0-8"bgs	<4.8	62.0	62.0	260.0	322.0	<.024	<.048	<.048	--	--	--	<0.097	<0.217
5	20191212C5TZM	12/12/19	0-8"bgs	<4.9	46.0	46.0	200.0	246.0	<.024	<.049	<.049	--	--	--	<0.098	<.220
6	EPI20181130TZ-#6	11/30/18	0-8"bgs	<10.0	<10.0	<10.0	<10.0	0.0	<0.05	<0.05	<0.05	--	--	--	<0.150	<0.300
6	20190307EPIC6TZ	3/7/19	0-8"bgs	<4.7	18.0	18.0	120.0	138.0	<.024	<.047	<.047	--	--	--	<0.095	<0.213
6	20191212C6TZM	12/12/19	0-8"bgs	<4.6	<9.8	0.0	59.0	59.0	<0.023	<0.046	<0.046	--	--	--	<0.092	<0.207
7	EPI20181130TZ-#7	11/30/18	0-8"bgs	<10.0	403.0	403.0	101.0	504.0	<0.05	<0.05	<0.05	--	--	--	<0.150	<0.207



Environmental Plus Landfarm - Treatment Zone Monitoring																
Organic Analytical Results																
Sample				GRO <sup>2</sup> (8015M) C <sub>6</sub> -C <sub>10</sub>	DRO <sup>3</sup> (8015M) >C <sub>10</sub> -C <sub>28</sub>	GRO+DRO C <sub>6</sub> -C <sub>28</sub>	MRO <sup>4</sup> (8015M) >C <sub>28</sub> -C <sub>36</sub>	TPH <sup>5</sup> C <sub>6</sub> -C <sub>36</sub>	Benzene	Toluene	Ethyl Benzene	Para- Xylene	Meta- Xylene	Ortho- Xylene	Total Xylenes	Total BTEX
Cell #	ID#	Date	Interval "bgs	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)
7	20190307EPIC7TZ	3/7/19	0-8"bgs	<4.9	170.0	170.0	300.0	470.0	<.024	<0.049	<0.049	--	--	--	<0.097	<0.219
7	20191212C7TZM	12/12/19	0-8"bgs	<4.6	<9.8	0.0	59.0	59.0	<0.023	<0.046	<0.046	--	--	--	<0.092	<0.207
8	EPI20181130TZ-#8	11/30/18	0-8"bgs	<10.0	18.1	18.1	10.0	28.1	<0.05	<0.05	<0.05	--	--	--	<0.150	<0.300
8	20190307EPIC8TZ	3/7/19	0-8"bgs	<4.7	24.0	24.0	170.0	194.0	<.023	<.047	<.047	--	--	--	<0.094	<0.211
8	20191212C8TZM	12/12/19	0-8"bgs	<4.8	9.9	9.9	82.0	91.9	<.024	<.048	<.048	--	--	--	<0.096	<0.216
9	EPI20181130TZ-#9	11/30/18	0-8"bgs	<10.0	<10.0	<10.0	<10.0	0.0	<0.05	<0.05	<0.05	--	--	--	<0.150	<0.300
9	20190307EPIC9TZ	3/7/19	0-8"bgs	<4.9	38.0	38.0	220.0	258.0	<.025	<.049	<.049	--	--	--	<0.098	<0.221
9	20191212C9TZM	12/12/19	0-8"bgs	<4.9	17.0	17.0	94.0	111.0	<.025	<.049	<.049	--	--	--	<0.098	<0.221
10	EPI20181130TZ-#10	11/30/18	0-8"bgs	<10.0	<10.0	<10.0	<10.0	0.0	<0.05	<0.05	<0.05	--	--	--	<0.150	<0.300
10	20190307EPIC10TZ	3/7/19	0-8"bgs	<4.8	<9.6	<9.6	57.0	57.0	<.024	<.048	<.048	--	--	--	<0.096	<0.216
10	20191212C10TZM	12/12/19	0-8"bgs	<4.7	<9.8	0.0	<49	0.0	<.023	<.047	<.047	--	--	--	<0.094	<0.211
11	EPI20181130TZ-#11	11/30/18	0-8"bgs	<10.0	<10.0	<10.0	<10.0	0.0	<0.05	<0.05	<0.05	--	--	--	<0.150	<0.300
11	20190307EPIC11TZ	3/7/19	0-8"bgs	<5.0	<9.7	<9.7	58.0	58.0	<0.025	<0.050	<0.050	--	--	--	<0.10	<0.225
11	20191212C11TZM	12/12/19	0-8"bgs	<4.8	<9.7	0.0	<48	0.0	<.024	<.048	<.048	--	--	--	<0.095	<0.215
12	EPI20181130TZ-#12	11/30/18	0-8"bgs	<10.0	<10.0	<10.0	<10.0	0.0	<0.05	<0.05	<0.05	--	--	--	<0.150	<0.300
12	20190307EPIC12TZ	3/7/19	0-8"bgs	<4.9	150.0	150.0	390.0	540.0	<.025	<.049	<.049	--	--	--	<0.098	<0.221
12	20191212C12TZM	12/12/19	0-8"bgs	<4.8	50.0	50.0	210.0	260.0	<.024	<.048	<.048	--	--	--	<0.096	<0.216
13	EPI20181130TZ-#13	11/30/18	0-8"bgs	<10.0	<10.0	<10.0	<10.0	0.0	<0.05	<0.05	<0.05	--	--	--	<0.150	<0.300
13	20190307EPIC13TZ	3/7/19	0-8"bgs	<4.9	76.0	76.0	270.0	346.0	<.024	<0.049	<0.049	--	--	--	<0.098	<0.220
13	20191212C13TZM	12/12/19	0-8"bgs	<4.8	57.0	57.0	210.0	267.0	<.024	<.048	<.048	--	--	--	<0.096	<0.216
14	EPI20181130TZ-#14	11/30/18	0-8"bgs	<10.0	<10.0	<10.0	<10.0	0.0	<0.05	<0.05	<0.05	--	--	--	<0.150	<0.300
14	20190307EPIC14TZ	3/7/19	0-8"bgs	<4.8	<50	<50	70.0	70.0	<.024	<.048	<.048	--	--	--	<0.095	<0.215
14	20191212C14TZM	12/12/19	0-8"bgs	<4.7	<9.4	0.0	<47	0.0	<.024	<.047	<.047	--	--	--	<0.094	<0.212
15	EPI20181130TZ-#15	11/30/18	0-8"bgs	<10.0	<10.0	<10.0	<10.0	0.0	<0.05	<0.05	<0.05	--	--	--	<0.150	<0.300

Environmental Plus Landfarm - Treatment Zone Monitoring																
Organic Analytical Results																
Sample				GRO <sup>2</sup> (8015M) C <sub>6</sub> -C <sub>10</sub>	DRO <sup>3</sup> (8015M) >C <sub>10</sub> -C <sub>28</sub>	GRO+DRO C <sub>6</sub> -C <sub>28</sub>	MRO <sup>4</sup> (8015M) >C <sub>28</sub> -C <sub>36</sub>	TPH <sup>5</sup> C <sub>6</sub> -C <sub>36</sub>	Benzene	Toluene	Ethyl Benzene	Para- Xylene	Meta- Xylene	Ortho- Xylene	Total Xylenes	Total BTEX
Cell #	ID#	Date	Interval "bgs	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)
15	20190307EPIC15TZ	3/7/19	0-8"bgs	<4.9	16.0	16.0	100.0	116.0	0.025	<.049	<.049	--	--	--	<0.098	0.025
15	20191212C15TZM	12/12/19	0-8"bgs	<4.8	<9.7	0.0	<47	0.0	<.024	<.048	<.048	--	--	--	<0.096	<0.216
<sup>1</sup> Regulatory Thresholds						500		2500	0.20							50
na - not analyzed "bgs - feet below ground surface																
<sup>1</sup> CoCs listed in Table 1 of 19.15.36.15.F – Treatment Zone Closure Performance Standards																
<sup>2</sup> GRO – Gasoline Range Organics <sup>3</sup> DRO - Diesel Range Organics <sup>4</sup> MRO – Motor Oil Range Organics <sup>5</sup> TPH – Total Petroleum Hydrocarbon																



Environmental Plus Landfarm - Treatment Zone Monitoring																			
Inorganic Analytical Results																			
Sample				Chloride (Cl) (SM4500Cl- B)	Antimony (An) 6010B	Arsenic (As) (6010B)	Barium (Ba) (6010B)	Beryllium (Be) (6010B)	Cadmium (Cd) (6010B)	Chromium (Cr) (6010B)	Copper (Cu) (6010B)	Iron (Fe) (6010B)	Lead (Pb) (6010B)	Manganese (Mn) (6010B)	Total Mercury (Hg) (6010B)	Selenium (Se) (6010B)	Thallium (Tl) (6010B)	Silver (Ag) (6010B)	Zinc (Zn) (6010B)
Cell	ID#	Date	Int.	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)
1	EPI20181130TZ-#1	11/30/18	0-8	48	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
1	20190307EPIC1TZ	3/7/19	0-8	<60	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
1	20191212C1TZM	12/12/19	0-8	<60	<4.9	<4.9	40	<0.30	<0.20	5.1	2.1	4100	1.6	51	<0.033	<4.9	<2.00	<0.49	13
2	EPI20181130TZ-#2	11/30/18	0-8	192	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2	20190307EPIC2TZ	3/7/19	0-8	310	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2	20191212C2TZM	12/12/19	0-8	130	<4.8	<4.8	230.0	<0.29	<0.19	4.2	2.7	4000	4.3	35	<0.033	<4.8	<2.00	0.67	11.0
3	EPI20181130TZ-#3	11/30/18	0-8	96	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
3	20190307EPIC3TZ	3/7/19	0-8	<60	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
3	20191212C3TZM	12/12/19	0-8	<60	<5.1	<5.1	140.0	0.38	<0.20	6.2	2.8	5700	6.9	58	<0.033	<5.1	<2.00	<0.51	16.0
4	EPI20181130TZ-#4	11/30/18	0-8	32	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
4	20190307EPIC4TZ	3/7/19	0-8	<60	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
4	20191212C4TZM	12/12/19	0-8	<60	<5.0	<5.0	89.0	0.35	<0.20	5.6	<0.59	5300	1.6	51	<0.033	<5.0	<2.00	<0.49	13.0
5	EPI20181130TZ-#5	11/30/18	0-8	48	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
5	20190307EPIC5TZ	3/7/19	0-8	<60	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
5	20191212C5TZM	12/12/19	0-8	<60	<5.1	<5.1	83.0	0.31	<0.20	5.6	2.5	4400	10	58	<0.033	<5.1	<2.00	<0.49	18.0
6	EPI20181130TZ-#6	11/30/18	0-8	48	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
6	20190307EPIC6TZ	3/7/19	0-8	<60	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
6	20191212C6TZM	12/12/19	0-8	<61	<4.9	<4.9	73.0	0.41	<0.19	6.5	2.2	6700	2	65	<0.033	<4.9	<2.00	<.50	16.0
7	EPI20181130TZ-#7	11/30/18	0-8	32	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
7	20190307EPIC7TZ	3/7/19	0-8	<60	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
7	20191212C7TZM	12/12/19	0-8	<60	<5.0	<5.0	85.0	0.36	<0.20	6	1.8	5600	1.3	50	<0.033	<5.0	<2.00	<0.49	15.0
8	EPI20181130TZ-#8	11/30/18	0-8	32	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
8	20190307EPIC8TZ	3/7/19	0-8	<60	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
8	20191212C8TZM	12/12/19	0-8	<60	<5.1	<5.1	80.0	0.41	<0.20	6.6	2.8	6500	2	58	<0.033	<5.1	<2.00	<0.50	16.0

Environmental Plus Landfarm - Treatment Zone Monitoring																			
Inorganic Analytical Results																			
Sample				Chloride (Cl) (SM4500Cl- B)	Antimony (An) 6010B	Arsenic (As) (6010B)	Barium (Ba) (6010B)	Beryllium (Be) (6010B)	Cadmium (Cd) (6010B)	Chromium (Cr) (6010B)	Copper (Cu) (6010B)	Iron (Fe) (6010B)	Lead (Pb) (6010B)	Manganese (Mn) (6010B)	Total Mercury (Hg) (6010B)	Selenium (Se) (6010B)	Thallium (Tl) (6010B)	Silver (Ag) (6010B)	Zinc (Zn) (6010B)
Cell	ID#	Date	Int.	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)
9	EPI20181130TZ-#9	11/30/18	0-8	48	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
9	20190307EPIC9TZ	3/7/19	0-8	<60	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
9	20191212C9TZM	12/12/19	0-8	<60	<5.0	<5.0	62.0	0.39	<0.20	6.5	2.2	6600	1.4	67	<0.033	<5.0	<2.00	<0.51	16.0
10	EPI20181130TZ- #10	11/30/18	0-8	48	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
10	20190307EPIC10TZ	3/7/19	0-8	<60	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
10	20191212C10TZM	12/12/19	0-8	<60	<4.9	<4.9	34.0	0.33	<0.19	6.3	1.6	5900	1.3	61	<0.033	<4.9	<2.00	<0.50	13.0
11	EPI20181130TZ- #11	11/30/18	0-8	48	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
11	20190307EPIC11TZ	3/7/19	0-8	<60	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
11	20191212C11TZM	12/12/19	0-8	<60	<5.0	5.6	75.0	0.57	<0.20	8.6	3.4	9600	3.1	120	<0.033	<5.0	<2.00	<0.51	21.0
12	EPI20181130TZ- #12	11/30/18	0-8	48	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
12	20190307EPIC12TZ	3/7/19	0-8	<60	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
12	20191212C12TZM	12/12/19	0-8	<60	<5.1	<5.1	72.0	0.32	<0.20	5.4	2.8	5400	2.7	87	<0.033	<5.1	<2.00	<0.51	14.0
13	EPI20181130TZ- #13	11/30/18	0-8	64	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
13	20190307EPIC13TZ	3/7/19	0-8	<60	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
13	20191212C13TZM	12/12/19	0-8	<60	<5.0	<5.0	46.0	0.31	<0.20	4.4	1.6	5100	2.3	59	<0.033	<5.0	<2.00	<0.50	10.0
14	EPI20181130TZ- #14	11/30/18	0-8	32	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
14	20190307EPIC14TZ	3/7/19	0-8	<60	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
14	20191212C14TZM	12/12/19	0-8	<60	<5.0	<5.0	250.0	0.44	<0.20	6.1	2.4	6500	3.8	73	<0.033	<5.0	<2.00	<0.50	15.0
15	EPI20181130TZ- #15	11/30/18	0-8	64	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
15	20190307EPIC15TZ	3/7/19	0-8	<60	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
15	20191212C15TZM	12/12/19	0-8	<60	<5.0	<5.0	72.0	0.45	<0.20	5.8	1.7	8000	2.3	57	<0.033	<5.0	<2.00	<0.50	14.0



Environmental Plus Landfarm - Treatment Zone Monitoring																			
Inorganic Analytical Results																			
Sample				Chloride (Cl <sup>-</sup> ) (SM4500Cl- B)	Antimony (An) 6010B	Arsenic (As) (6010B)	Barium (Ba) (6010B)	Beryllium (Be) (6010B)	Cadmium (Cd) (6010B)	Chromium (Cr) (6010B)	Copper (Cu) (6010B)	Iron (Fe) (6010B)	Lead (Pb) (6010B)	Manganese (Mn) (6010B)	Total Mercury (Hg) (6010B)	Selenium (Se) (6010B)	Thallium (Tl) (6010B)	Silver (Ag) (6010B)	Zinc (Zn) (6010B)
Cell	ID#	Date	Int.	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)
<b><sup>1</sup>Regulatory Thresholds</b>				<b>500</b>	<b>31.3</b>	<b>7.07</b>	<b>4390</b>	<b>148</b>	<b>70.5</b>	<b>96.6</b>	<b>3130</b>	<b>54800</b>	<b>29.7</b>	<b>464</b>	<b>20.7</b>	<b>391</b>	<b>.782</b>	<b>391</b>	<b>23500</b>
na - not analyzed                      'bgs - feet below original ground surface <sup>1</sup> Most conservative exposure limits in Table A-1, NMED Soil Screening Levels (SSLs) from the June 2022 NMED Risk Assessment Guidance for Site Investigations and Remediation, Volume I, Soil Screening Guidance for Human Health Risk Assessments (excluding the columns titled “Tap Water Cancer”, “Tap Water Noncancer”, and “Cw, DAF 20”). For Chloride, Table 1 of 19.15.29.12.E.2 (51 feet-100 feet bgs) will apply.																			

Environmental Plus Landfarm - Vadose Zone Background Monitoring Results																	
Organic Analytical Results																	
Sample				GRO <sup>2</sup> (8015M) C <sub>6</sub> -C <sub>10</sub>	DRO <sup>3</sup> (8015M) >C <sub>10</sub> -C <sub>28</sub>	GRO+DRO C <sub>6</sub> -C <sub>28</sub>	MRO <sup>4</sup> (8015M) >C <sub>28</sub> -C <sub>36</sub>	TPH <sup>5</sup> (418.1) C <sub>6</sub> -C <sub>36</sub>			Ethyl Benzene	Para- Xylene	Meta- Xylene	Ortho- Xylene	Total Xylenes	Total BTEX	MTBE
Location	ID#	Date	Interval bgs	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)
East S	BG East S	12/30/2019	3-4'bgs	<4.7	<8.9	<8.9	<45	<45	<0.023	<0.047	<0.047				<0.093	<0.210	na
East S	20201007BGES	10/7/2020	3-4'bgs	<5.0	10.0	10.0	83.0	93.0	<0.025	<0.050	<0.050	--	--	--	<0.100	<0.225	na
East N	BG East N	12/30/2019	3-4'bgs	<4.7	<9.8	<9.8	52.0	52.0	<0.023	<0.047	<0.047				<0.094	<0.211	na
East N	20201007BGEN	10/7/2020	3-4'bgs	<4.9	28.0	28.0	200.0	228.0	<.024	<0.049	<0.049	--	--	--	<0.098	<0.220	na
Center E	BG Center E	12/31/2019	3-4'bgs	<4.8	<9.4	<9.4	<47	<47	<.024	<.048	<.048	--	--	--	<0.096	<0.216	na
North E	BG North E	12/31/2019	3-4'bgs	<4.8	<9.7	<9.7	<49	<49	<.024	<.048	<.048	--	--	--	<0.096	<0.216	na
North E	20201007BGNE	10/7/2020	3-4'bgs	<4.9	<10.0	<10.0	<50	<50	<0.025	<0.049	<0.049	--	--	--	<0.098	<0.221	na
North C	BG North C	12/31/2019	3-4'bgs	<4.8	<9.7	<9.7	<48	<48	<.024	<.048	<.048	--	--	--	<0.096	<0.216	na
North W	BG North W	12/31/2019	3-4'bgs	<4.9	<9.7	<9.7	<48	<48	<.024	<0.049	<0.049	--	--	--	<0.098	<0.220	na
North W	20201007BGNW	10/7/2020	3-4'bgs	<4.7	<9.5	<9.5	<47	<47	<.024	<.047	<.047	--	--	--	<0.095	<0.213	na
North WW	BG North WW	12/31/2019	3-4'bgs	<4.7	<9.5	<9.5	<48	<48	<.024	<.047	<.047	--	--	--	<0.094	<0.212	na
West N	BG West N	12/31/2019	3-4'bgs	<4.8	<9.8	<9.8	<49	<49	<.024	<.048	<.048	--	--	--	<0.096	<0.216	na
West N	20201007BGWN	10/7/2020	3-4'bgs	<4.8	<9.9	<9.9	<49	<49	<.024	<.048	<.048	--	--	--	<0.096	<0.216	na
West S	BG West S	12/31/2019	3-4'bgs	<5.0	<9.0	<9.0	<45	<45	<0.025	<0.050	<0.050	--	--	--	<0.099	<0.224	na
West S	20201007BGWS	10/7/2020	3-4'bgs	<4.8	<9.4	<9.4	<47	<47	<.024	<.048	<.048	--	--	--	<0.097	<0.217	na
South E	BG South E	12/31/2019	3-4'bgs	<4.9	<8.8	<8.8	<44	<44	<0.025	<0.049	<0.049	--	--	--	<0.098	<0.221	na
South E	20201007BGSE	10/7/2020	3-4'bgs	<4.7	<9.5	<9.5	<47	<47	<.024	<.047	<.047	--	--	--	<0.094	<0.212	na
South W	BG South W	12/31/2019	3-4'bgs	<4.9	<9.3	<9.3	49.0	49.0	<.024	<0.049	<0.049	--	--	--	<0.097	<0.219	na
South W	20201007BGSW	10/7/2020	3-4'bgs	<4.8	<9.6	<9.6	<48	<48	<.024	<.048	<.048	--	--	--	<0.096	<0.216	na
Center W	BG Center W	12/31/2019	3-4'bgs	<4.8	<9.3	<9.3	<46	<46	<.024	<.048	<.048	--	--	--	<0.096	<0.216	na



Environmental Plus Landfarm - Vadose Zone Background Monitoring Results																	
Organic Analytical Results																	
Sample				GRO <sup>2</sup> (8015M) C <sub>6</sub> -C <sub>10</sub>	DRO <sup>3</sup> (8015M) >C <sub>10</sub> -C <sub>28</sub>	GRO+DRO C <sub>6</sub> -C <sub>28</sub>	MRO <sup>4</sup> (8015M) >C <sub>28</sub> -C <sub>36</sub>	TPH <sup>5</sup> (418.1) C <sub>6</sub> -C <sub>36</sub>			Ethyl Benzene	Para- Xylene	Meta- Xylene	Ortho- Xylene	Total Xylenes	Total BTEX	MTBE
Location	ID#	Date	Interval bgs	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)
Background	Cell #1@18" Depth	8/23/1993	1.5'bgs	--	--	--	--	21.0	<0.001	<0.001	<0.001	<0.001	<0.001	0.005	0.005	0.01	<0.001
Cell #1	Cell #1@18" Depth Annual Sampling	11/22/1994	1.5'bgs	--	--	--	--	44.0	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	na
<sup>1</sup> Regulatory Thresholds						1000		2500	10							50	
na - not analyzed                      'bgs - feet below ground surface <sup>1</sup> CoCs listed in Table 1 of 19.15.29.12.E.2 (51 feet-100 feet bgs) <sup>2</sup> GRO – Gasoline Range Organics <sup>3</sup> DRO - Diesel Range Organics <sup>4</sup> MRO – Motor Oil Range Organics <sup>5</sup> TPH – Total Petroleum Hydrocarbon																	

Environmental Plus Landfarm - Vadose Zone Background Monitoring Reults																			
Inorganic Analytical Results																			
Sample				Chloride (Cl <sup>-</sup> ) (SM4500Cl-B)	Antimony (An) (6010B)	Arsenic (As) (6010B)	Barium (Ba) (6010B)	Berylium (Be) (6010B)	Cadmium (Cd) (6010B)	Chromium (Cr) (6010B)	Copper (Cu) (6010B)	Iron (Fe) (6010B)	Lead (Pb) (6010B)	Manganese (Mn) (6010B)	Total Mercury (Hg) (6010B)	Selenium (Se) (6010B)	Thallium (Tl) (6010B)	Silver (Ag) (6010B)	Zinc (Zn) (6010B)
Location	ID#	Date	Interval 'bgs	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)	mg/Kg (ppm)
East S	BG East S	12/30/19	3-4'bgs	<60															
East S	20201007BGES	10/7/20	3-4'bgs	<3.0															
East N	BG East N	12/30/19	3-4'bgs	<60															
East N	20201007BGEN	10/7/20	3-4'bgs	<3.0															
Center E	BG Center E	12/31/19	3-4'bgs	<60															
North E	BG North E	12/31/19	3-4'bgs	<60															
North E	20201007BGNE	10/7/20	3-4'bgs	<3.0															
North C	BG North C	12/31/19	3-4'bgs	<60															
North W	BG North W	12/31/19	3-4'bgs	<60															
North W	20201007BGNW	10/7/20	3-4'bgs	<3.0															
North WW	BG North WW	12/31/19	3-4'bgs	<60															
West N	BG West N	12/31/19	3-4'bgs	<60															
West N	20201007BGWN	10/7/20	3-4'bgs	<3.0															
West S	BG West S	12/31/19	3-4'bgs	<60															
West S	20201007BGWS	10/7/20	3-4'bgs	<3.0															
South E	BG South E	12/31/19	3-4'bgs	<60															
South E	20201007BGSE	10/7/20	3-4'bgs	<3.0															
South W	BG South W	12/31/19	3-4'bgs	<60															
South W	20201007BGSW	10/7/20	3-4'bgs	<3.0															
Center W	BG Center W	12/31/19	3-4'bgs	91															
				Chloride (Cl <sup>-</sup> ) (SM4500Cl-B)	Antimony (An) (6010B)	Arsenic (As) (TCLP)	Barium (Ba) (TCLP)	Berylium (Be) (6010B)	Cadmium (Cd) (TCLP)	Chromium (Cr) (TCLP)	Copper (Cu) (6010B)	Iron (Fe) (6010B)	Lead (Pb) (TCLP)	Manganese (Mn) (6010B)	Mercury (Hg) (TCLP)	Selenium (Se) (TCLP)	Thallium (Tl) (6010B)	Silver (Ag) (TCLP)	Zinc (Zn) (6010B)



Page 80

Environmental Plus, Inc. Landfarm  
Minor Modification: Closure Plan and Post Closure Plan October 2025  
Permit #NM-1-013

## ATTACHMENT 7 – LABORATORY REPORTS



EDDIE W. SEAY, CEI  
601 W. Illinois  
Hobbs, NM 88240  
(505)392-2236

OIL CONSERVATION DIVISION  
RECEIVED

'93 SEP 15 AM 8 38

September 13, 1993

Ms. Kathy Brown  
New Mexico Oil Conservation Division  
P.O. Box 2088  
Santa Fe, NM 87504-2088

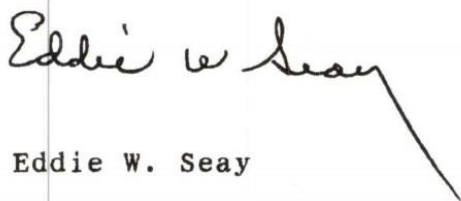
RE: EPI Landfarm

Dear Kathy:

Here are the background analysis for EPI landfarm. Samples were taken approximately in the center of the facility at a depth of about 18 inches. The bond was sent in to Santa Fe the week of the 6th of September and should be on file. We are in the process of constructing the facility, as the permit required, and plan to be finished in a few weeks. Upon completion of the facility, we will notify you before commencing operation, in case an inspection is needed.

If you have any question or need further information, please call.

Sincerely,

  
Eddie W. Seay



PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TEXAS 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NEW MEXICO 88240

## FINAL ANALYSIS REPORT

Company: EPI  
 Address: P.O. Box 969  
 City, State: Eunice, NM 88231

Date: 8/31/93  
 Lab#: H1332

Project Name:  
 Project Location: Sec. 14 & 15 T22 R37 E Lea County  
 Sampled by: ES Date: 8/23/93 Time: 4:00  
 Analyzed by: HM/MF Date: 8/30/93 Time: 9:30  
 Type of Samples: Soil Sample Condition: GIST

Units: mg/kg, mg/l

*****									
Samp #	Field Code	TRPHC	BENZENE	TOLUENE	ETHYL BENZENE	PARA-XYLENE	META-XYLENE	ORTHO-XYLENE	MTBE
1	Sample 1	21.0	<0.001	<0.001	<0.001	<0.001	<0.001	0.005	<0.001
QC Recovery		396.5	1.956	2.034	2.084	2.014	2.116	2.204	1.891
QC Spike		405.9	2.026	2.038	2.062	2.021	2.093	2.110	1.713
Accuracy		97.7%	96.5%	99.8%	101.1%	99.7%	101.1%	104.4%	110.4
Air Blank		***	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

Methods - AUTOMATED HEADSPACE GC; INFRARED SPECTROSCOPY  
 - EPA SW-846; EPA METHODS 8020, 418.1, 3540 OR 3510

Michael R. Fowler

Date

9/2/93

Background TPH 21



**CARDINAL  
LABORATORIES**

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TEXAS 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NEW MEXICO 88240

**TCLP ANALYSIS REPORT**

Company: EPI  
Address: P.O. Box 969  
City, State: Eunice, NM 88231

Date: 8/31/93  
Lab#: H1332-1

Project Name:  
Project Location: Sec 14 & 15 T22 R37 E Lea County  
Sampled by: ES  
Type of Sample: Soil  
Sample ID: Sample 1

Date: 8/23/93  
Sample Condition: GIST

**TCLP INORGANICS (Leachate)**

<u>PARAMETER</u>	<u>RESULT</u>	<u>UNITS</u>
Arsenic	0.007	mg/l
Barium	1.08	mg/l
Cadmium	<0.005	mg/l
Chromium	<0.05	mg/l
Lead	<0.10	mg/l
Mercury	0.0004	mg/l
Selenium	0.003	mg/l
Silver	0.07	mg/l

METHODS: TCLP INORGANICS (Leachate) - EPA 1311/7000/7060/7471/7740

Michael R. Fowler

Date

9/2/93



PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TEXAS 79603  
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NEW MEXICO 88240

## CHEMICAL ANALYSIS OF SOIL

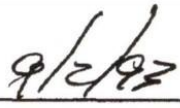
Company : EPI  
City, St.: P.O. Box 969, Eunice, NM 88231  
Proj.Name:  
Location : Sec. 14 & 15 T22 R37 E Lea County  
Sample 1 : Sample 1

Lab #: H1332

Date : 6/7/93

PARAMETER	RESULT (mg/kg) SAMPLE
	1
pH	8.48
Hardness (CaCO <sub>3</sub> )	538
Calcium (CaCO <sub>3</sub> )	342
Magnesium (CaCO <sub>3</sub> )	196
Nitrate (NO <sub>3</sub> )	10
Sulfate (SO <sub>4</sub> )	61
Chloride (Cl)	49
Ortho Phosphate (PO <sub>4</sub> )	71

  
Michael R. Fowler

  
Date



OIL CONSERVATION DIVISION  
RECEIVED

94 DEC 11 AM 8 52

December 9, 1994

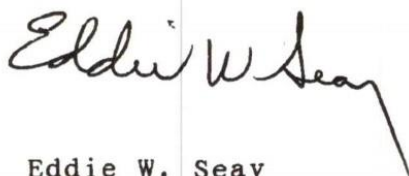
Oil Conservation Division  
ATTN: Chris Eustice  
Box 2088  
Santa Fe, NM 87504-2088

SUBJECT: EPI Inc. Annual Sampling

Dear Chris:

Within is analysis for EPI Inc. landfarm, Eunice, NM. Annual testing requires TPH, BTEX, general chemistry and metals. If you have any questions, please call.

Sincerely,



Eddie W. Seay  
601 W. Illinois  
Hobbs, NM 88240  
(505)392-2236

**ARDINAL  
LABORATORIES**

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

PHONE (505) 326-4669 • 118 S. COMMERCIAL AVE. • FARMINGTON, NM 87401

**TCLP ANALYSIS REPORT**

Company: Eddie W. Seay  
Address: 601 W. Illinois  
City, State: Hobbs, NM 88240

Date: 12/6/94  
Lab #: H1875

Project Name: EPI Landfarm  
Location: Eunice, NM  
Sampled by: ES  
Sample Type: Soil

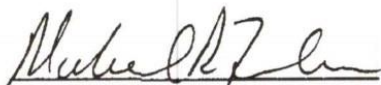
Date: 11/22/94  
Sample Condition: Cool, Intact

Sample ID: Cell #1 @ 18" Depth - Annual Sampling

**TCLP INORGANICS (Leachate)**

<u>PARAMETER</u>	<u>RESULT</u>	<u>EPA LIMIT</u>	<u>UNITS</u>
Silver	<0.1	5	ppm
Arsenic	<0.01	5	ppm
Barium	0.36	100	ppm
Cadmium	<0.1	1	ppm
Chromium	<0.1	5	ppm
Mercury	<0.001	0.2	ppm
Lead	<0.1	5	ppm
Selenium	<0.01	1	ppm

METHODS: TCLP INORGANICS (Leachate) - EPA 1311/7000

  
Michael R. Fowler

  
Date



**ARDINAL**  
LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

PHONE (505) 326-4669 • 118 S. COMMERCIAL AVE. • FARMINGTON, NM 87401

**CHEMICAL ANALYSIS OF WATER**

Company : Eddie W. Seay  
City, St.: 601 W. Illinois  
Proj. Name: EPI Landfarm  
Location : Eunice, NM

Lab #: H1875  
Date Received: 11/22/94  
Date Analyzed: 11/23/94

Sample 1 : Cell #1 @ 18" depth - Annual Sampling

Units: ppm

<u>PARAMETER</u>	<u>RESULT 1</u>
pH	8.83
Hardness (CaCO <sub>3</sub> )	2,640
Calcium (CaCO <sub>3</sub> )	2,080
Magnesium (CaCO <sub>3</sub> )	560
Sulfate (SO <sub>4</sub> <sup>-</sup> )	1,912
Chloride (Cl <sup>-</sup> )	1,840
Nitrate	2.6

  
Michael R. Fowler  
Date



# **ARDINAL LABORATORIES**

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

PHONE (505) 326-4669 • 118 S. COMMERCIAL AVE. • FARMINGTON, NM 87401

## **F I N A L   A N A L Y S I S   R E P O R T**

Company: Eddie W. Seay  
Address: 601 W. Illinois  
City, State: Hobbs, NM 88240

Date: 12/6/94  
Lab #: H1875

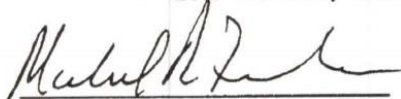
Project Name: EPI Landfarm  
Location: Eunice, NM  
Sampled by: ES  
Analyzed by: MF  
Sample Type: Soil

Date: 11/22/94      Time: 12:30  
Date: 11/23/94      Time: various  
Sample Condition: Cool, Intact      Units: mg/kg

*****								
Samp #	Field Code	TRPHC	BENZENE	TOLUENE	ETHYL BENZENE	PARA-XYLENE	META-XYLENE	ORTHO-XYLENE
1	Cell #1 @ 18" Depth-Annual Sampling	44.0	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

QC Recovery	385.0	0.957	0.819	0.945	0.916	0.929	0.979
QC Spike	405.9	0.881	0.865	0.869	0.866	0.860	0.886
Accuracy	94.8%	108.6%	94.7%	108.7%	105.8%	108.0%	110.5%
Air Blank	***	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

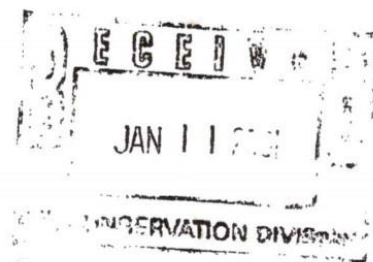
Methods - GAS CHROMATOGRAPHY; INFRARED SPECTROSCOPY  
- EPA SW-846; 8020, 418.1, 3540 OR 3510

  
Michael R. Fowler

12/6/94  
Date



January 5, 2001



Martyne J. Kieling  
NMOCD Environmental Bureau  
2040 South Pacheco St.  
Santa Fe, NM 87505

RE: Quarterly sampling EPI Landfarm  
Eunice, NM

Dear Mrs. Kieling:

Find within quarterly sampling and testing for the treatment zones for EPI Landfarm. Samples were taken at a depth of approximately 24 inches and holes backfilled with bentonite.

If you have any questions or need additional information, please call.

Sincerely,

Eddie W. Seay, Agent  
601 W. Illinois  
Hobbs, NM 88242  
(505)392-2236

**ECD Environmental, Inc.**

**Client:** Eddie Seay Consulting  
**Project:** EPI Quarterly  
**Project Manager:** Eddie Seay  
**Project Number:**

**Date Collected:** 11/27/00  
**Date Received:** 11/28/00  
**Sample Matrix:** Soil  
**Extraction Date:** 11/29/00

**EPA Method 8021 BTEX**

Heal ID	Client ID	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Total Xylenes (mg/kg)
001129-1	Cell 1	ND	ND	ND	ND
001129-2	Cell 2	ND	ND	ND	ND
001129-3	Cell 3	ND	ND	ND	ND
001129-4	Cell 4	ND	ND	ND	ND
001129-5	Cell 5	ND	ND	ND	ND
001129-6	Cell 6	ND	ND	ND	ND
001129-7	Cell 7	ND	ND	ND	ND
MRL		0.05	0.05	0.05	0.05



SVL ANALYTICAL, INC. REPORT OF ANALYTICAL RESULTS  
 One Government Gulch • P.O. Box 929 • Kellogg, Idaho 83837-0929 • Phone: (208)784-1258 • Fax: (208)71

Page 95

CLIENT: BALL ENVIRONMENTAL			Sample Receipt: 12/12/00			Date of Report: 12/18/00			SVL JOB No.		
SVL ID	CLIENT SAMPLE ID	Test Method	Ag 6010B	As 6010B	Ba 6010B	Cd 6010B	Cr 6010B	Pb 6010B	Se 6010B		
W251358	0012027-13A C113	12/04/00	<0.01mg/L	0.21mg/L	0.866mg/L	<0.004mg/L	<0.012mg/L	0.020mg/L	<0.02mg/L	<0.001	<0.001
W251359	0012027-14A C114	12/04/00	<0.01mg/L	<0.02mg/L	1.53mg/L	<0.004mg/L	<0.012mg/L	<0.01mg/L	<0.02mg/L	<0.001	<0.001
W251360	0012027-15A C115	12/04/00	<0.01mg/L	0.05mg/L	1.56mg/L	<0.004mg/L	<0.012mg/L	<0.01mg/L	<0.02mg/L	<0.001	<0.001
W251361	0012027-16A C116	12/04/00	<0.01mg/L	0.04mg/L	1.19mg/L	<0.004mg/L	<0.012mg/L	<0.01mg/L	<0.02mg/L	<0.001	<0.001
W251362	0012027-17A C117	12/04/00	<0.01mg/L	0.03mg/L	1.32mg/L	<0.004mg/L	<0.012mg/L	<0.01mg/L	<0.02mg/L	<0.001	<0.001

Reviewed By:

Bridget Johnson

Date:

12/18/00

SVL ANALYTICAL, INC.  
One Government Gulch • P.O. Box 929

• Kellogg, Idaho 83837-0929

• Phone: (208) 784-1258

• Fax: (208) 783-1258

Page 1 of 1

CLIENT: HALL ENVIRONMENTAL

Sample Receipt: 12/08/00

Date of Report: 12/15/00

SVL JOB No.: 96

SVL ID	CLIENT SAMPLE ID	Test Method	Ag 6010B	As 6010B	Ba 6010B	Cd 6010B	Cr 6010B	Pb 6010B	Se 6010B	Hg 71
W251061	0012027-1A Cell 1	12/04/00	<0.005mg/L	0.01mg/L	2.12mg/L	<0.002mg/L	<0.006mg/L	<0.005mg/L	<0.01mg/L	<0.0004mg/L
W251062	0012027-12A Cell 2	12/04/00	<0.005mg/L	0.02mg/L	1.75mg/L	<0.002mg/L	<0.006mg/L	<0.005mg/L	<0.01mg/L	<0.0002mg/L

Reviewed By:

*Blake Johnson*

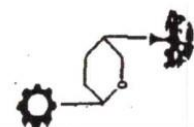
Date:

*12/15/00*



**CHAIN-OF-CUSTODY RECORD**

Client: <u>Eddie Seay Consulting</u>				Project Name: <u>EPI Landform</u>			
Address: <u>601 W Illinois</u>				Project #: <u>EPI Quarterly</u>			
Address: <u>Hobbs N.M.</u>				Project Manager: <u>Charlie Rottis</u>			
Phone #: <u>505-392-2234</u>				Sampler: <u>Eddie Seay</u>			
Fax #: <u>392-6949</u>				Samples Col'd?: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
Date	Time	Matrix	Sample I.D. No.	Number/Volume	Preservative		HEAL No.
					H <sub>2</sub> O <sub>2</sub>	HCl	
11/27	8:15		Cell 1	2			Cell 29-1
"	8:40		Cell 2	2			-2
"	9:00		Cell 3	2			-3
"	9:20		Cell 4	2			-4
"	9:50		Cell 5	2			-5
"	10:15		Cell 6	2			-6
"	10:45		Cell 7	2			-7
Date: <u>11/28</u> Time: <u>1:30 PM</u>				Relinquished By: (Signature) <u>Eddie Seay</u>			
Date: <u>11/28</u> Time: <u>1:30 PM</u>				Received By: (Signature) <u>Eddie Seay</u>			
Relinquished By: (Signature)				Received By: (Signature)			



ECD Environmental, Inc.

**ANALYSIS REQUEST**

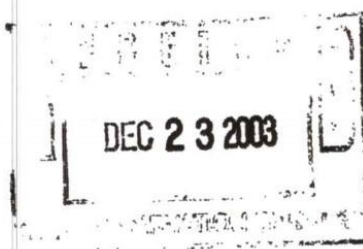
	BTEX + MTBE + TMB's (8021)	
	BTEX + MTBE + TPH (Gasoline Only)	
	TPH Method 8015B MOD (Gas/Diesel)	
	TPH (Method 418.1)	
	8310 (PNA or PAH)	
	RCRA 8 Metals	
	Cations (Na, K, Ca, Mg)	
	Anions (F, Cl, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> )	
	8081 Pesticides / PCB's (8082)	
	TCLP Metals	
	Air Bubbles or Headspace (Y or N)	

Remarks:

Quarterly treatment Zone Samples

December 17, 2003

NMOCD Environmental  
ATTN: Martyne J. Kieling  
P.O. Box 6429  
1220 S. Saint Francis Drive  
Santa Fe, NM 87504



RE: EPI Landfarm  
Yearly Sampling

Dear Mrs. Kieling:

Find within the results of the yearly sampling for EPI Landfarm. Samples were taken at approximately two foot depths and holes backfilled with bentonite.

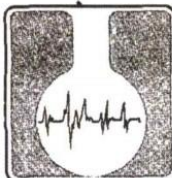
If you have any questions, please call.

Sincerely,

Eddie W. Seay, Agent  
601 W. Illinois  
Hobbs, NM 88242  
(505)392-2236

mjh  
12-29-03





# ASSAIGAI ANALYTICAL LABORATORIES, INC.

4301 Masthead NE • Albuquerque, New Mexico 87109 • (505) 345-8964 • FAX (505) 345-7259

3332 Wedgewood, Ste. N • El Paso, Texas 79925 • (915) 593-6000 • FAX (915) 593-7820

127 Eastgate Drive, 212-C • Los Alamos, New Mexico 87544 • (505) 662-2558

## EDDIE SEAY CONSULTING

attn: EDDIE SEAY

601 W. ILLINOIS

HOBBS

NM 88242

### Explanation of codes

B	analyte detected in Method Blank
E	result is estimated
H	analyzed out of hold time
N	tentatively identified compound
S	subcontracted
1-9	see footnote

Assaigai Analytical Laboratories, Inc.

STANDARD

## Certificate of Analysis

Client: EDDIE SEAY CONSULTING

Project: EPI LANDFARM

Order: 0311212 EDD01

Receipt: 11-12-03

*William P. Biava*  
William P. Biava, President of Assaigai Analytical Laboratories, Inc.

Sample: CELL #1

Collected: 11-11-03 11:45:00 By: ES

Matrix: SOIL

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0311212-01A		SW846 5030A/8015A	GRO by GC/FID					By: JDR		
X03570	XG.2003.2095.21		Gasoline Range Organics	ND	mg / Kg	1	0.25		11-24-03	11-24-03
0311212-01A		SW846 5030A/8021B	Purgeable VOCs by GC/PID					By: JDR		
X03553	XG.2003.2123.3	71-43-2	Benzene	ND	mg / Kg	1	0.005		11-25-03	11-25-03
X03553	XG.2003.2123.3	100-41-4	Ethylbenzene	ND	mg / Kg	1	0.005		11-25-03	11-25-03
X03553	XG.2003.2123.3	95-47-6	o-Xylene	ND	mg / Kg	1	0.005		11-25-03	11-25-03
X03553	XG.2003.2123.3	108-38-3/106-42	p/m-Xylenes	0.011	mg / Kg	1	0.01		11-25-03	11-25-03
X03553	XG.2003.2123.3	108-88-3	Toluene	0.005	mg / Kg	1	0.005		11-25-03	11-25-03
0311212-01A		SW846 ME/8015A	Diesel Range Organics by GC/FID					By: JDR		
X03571	XG.2003.2108.20		Diesel Range Organics	ND	mg / Kg	1	25		11-24-03	11-25-03
0311212-01C		SW846 1311/3010A/6010B	ICP TCLP					By: KDW		
M031613	MT.2003.1677.14	7440-38-2	Arsenic	ND	mg / L	10	0.2	1	12-01-03	12-02-03
M031595	MT.2003.1650.14	7440-39-3	Barium	1.0	mg / L	10	0.1		11-24-03	11-26-03
M031595	MT.2003.1650.14	7440-43-9	Cadmium	ND	mg / L	10	0.02		11-24-03	11-26-03
M031595	MT.2003.1650.14	7440-47-3	Chromium	ND	mg / L	10	0.02		11-24-03	11-26-03
M031595	MT.2003.1650.14	7439-92-1	Lead	ND	mg / L	10	0.05		11-24-03	11-26-03
M031595	MT.2003.1650.14	7782-49-2	Selenium	ND	mg / L	10	0.05		11-24-03	11-26-03
M031595	MT.2003.1650.14	7440-22-4	Silver	ND	mg / L	10	0.04		11-24-03	11-26-03
0311212-01C		SW846 1311/7470A	CVAA TCLP					By: DAH		
M031591	MT.2003.1630.16	7439-97-6	Mercury	ND	mg / L	1	0.0002		11-24-03	11-24-03



SQLCoyote: Reports 1.0.0310221500XX

Report Date 12/4/2003 9:14:10 AM

REPRODUCTION OF THIS REPORT IN LESS THAN FULL REQUIRES THE WRITTEN CONSENT OF AAL.  
THIS REPORT MAY NOT BE USED IN ANY MANNER BY THE CLIENT OR ANY OTHER THIRD PARTY TO CLAIM  
PRODUCT ENDORSEMENT BY THE NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM.

Assagai Analytical Laboratories, Inc.

STANDARD

## Certificate of Analysis

Client: EDDIE SEAY CONSULTING

Project: EPI LANDFARM

Order: 0311212 EDD01

Receipt: 11-12-03

Sample: CELL #2

Collected: 11-11-03 12:10:00 By: ES

Matrix: SOIL

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0311212-02A		SW846 5030A/8015A	GRO by GC/FID					By: JDR		
X03570	XG.2003.2095.22		Gasoline Range Organics	ND	mg / Kg	1	0.25		11-24-03	11-24-03
0311212-02A		SW846 5030A/8021B	Purgeable VOCs by GC/PID					By: JDR		
X03553	XG.2003.2123.4	71-43-2	Benzene	ND	mg / Kg	1	0.005		11-25-03	11-25-03
X03553	XG.2003.2123.4	100-41-4	Ethylbenzene	ND	mg / Kg	1	0.005		11-25-03	11-25-03
X03553	XG.2003.2123.4	95-47-6	o-Xylene	ND	mg / Kg	1	0.005		11-25-03	11-25-03
X03553	XG.2003.2123.4	108-38-3/106-42	p/m-Xylenes	ND	mg / Kg	1	0.01		11-25-03	11-25-03
X03553	XG.2003.2123.4	108-88-3	Toluene	ND	mg / Kg	1	0.005		11-25-03	11-25-03
0311212-02A		SW846 ME/8015A	Diesel Range Organics by GC/FID					By: JDR		
X03571	XG.2003.2108.21		Diesel Range Organics	ND	mg / Kg	1	25		11-24-03	11-25-03
0311212-02C		SW846 1311/3010A/6010B	ICP TCLP					By: KDW		
M031613	MT.2003.1677.18	7440-38-2	Arsenic	ND	mg / L	10	0.2		12-01-03	12-02-03
M031595	MT.2003.1650.18	7440-39-3	Barium	1.3	mg / L	10	0.1		11-24-03	11-26-03
M031595	MT.2003.1650.18	7440-43-9	Cadmium	ND	mg / L	10	0.02		11-24-03	11-26-03
M031595	MT.2003.1650.18	7440-47-3	Chromium	ND	mg / L	10	0.02		11-24-03	11-26-03
M031595	MT.2003.1650.18	7439-92-1	Lead	ND	mg / L	10	0.05		11-24-03	11-26-03
M031595	MT.2003.1650.18	7782-49-2	Selenium	ND	mg / L	10	0.05		11-24-03	11-26-03
M031595	MT.2003.1650.18	7440-22-4	Silver	ND	mg / L	10	0.04		11-24-03	11-26-03
0311212-02C		SW846 1311/7470A	CVAA TCLP					By: DAH		
M031591	MT.2003.1630.19	7439-97-6	Mercury	ND	mg / L	1	0.0002		11-24-03	11-24-03

Sample: CELL #3

Collected: 11-11-03 12:30:00 By: ES

Matrix: SOIL

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0311212-03A		SW846 5030A/8015A	GRO by GC/FID					By: JDR		
X03570	XG.2003.2095.23		Gasoline Range Organics	ND	mg / Kg	1	0.25		11-24-03	11-24-03
0311212-03A		SW846 5030A/8021B	Purgeable VOCs by GC/PID					By: JDR		
X03553	XG.2003.2123.5	71-43-2	Benzene	ND	mg / Kg	1	0.005		11-25-03	11-25-03
X03553	XG.2003.2123.5	100-41-4	Ethylbenzene	ND	mg / Kg	1	0.005		11-25-03	11-25-03
X03553	XG.2003.2123.5	95-47-6	o-Xylene	ND	mg / Kg	1	0.005		11-25-03	11-25-03
X03553	XG.2003.2123.5	108-38-3/106-42	p/m-Xylenes	ND	mg / Kg	1	0.01		11-25-03	11-25-03
X03553	XG.2003.2123.5	108-88-3	Toluene	ND	mg / Kg	1	0.005		11-25-03	11-25-03
0311212-03A		SW846 ME/8015A	Diesel Range Organics by GC/FID					By: JDR		
X03571	XG.2003.2108.22		Diesel Range Organics	ND	mg / Kg	1	25		11-24-03	11-25-03
0311212-03C		SW846 1311/3010A/6010B	ICP TCLP					By: KDW		
M031613	MT.2003.1677.19	7440-38-2	Arsenic	ND	mg / L	10	0.2		12-01-03	12-02-03
M031595	MT.2003.1650.19	7440-39-3	Barium	1.1	mg / L	10	0.1		11-24-03	11-26-03



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Assagai Analytical Laboratories, Inc.

## Certificate of Analysis

Client: EDDIE SEAY CONSULTING

Project: EPI LANDFARM

Order: 0311212 EDD01

Receipt: 11-12-03

Sample: CELL #3

Collected: 11-11-03 12:30:00 By: ES

Matrix: SOIL

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0311212-03C		SW846 1311/3010A/6010B ICP TCLP						By: KDW		
M031595	MT.2003.1650.19	7440-43-9	Cadmium	ND	mg / L	10	0.02		11-24-03	11-26-03
M031595	MT.2003.1650.19	7440-47-3	Chromium	ND	mg / L	10	0.02		11-24-03	11-26-03
M031595	MT.2003.1650.19	7439-92-1	Lead	ND	mg / L	10	0.05		11-24-03	11-26-03
M031595	MT.2003.1650.19	7782-49-2	Selenium	ND	mg / L	10	0.05		11-24-03	11-26-03
M031595	MT.2003.1650.19	7440-22-4	Silver	ND	mg / L	10	0.04		11-24-03	11-26-03

0311212-03C		SW846 1311/7470A CVAA TCLP						By: DAH		
M031591	MT.2003.1630.20	7439-97-6	Mercury	ND	mg / L	1	0.0002		11-24-03	11-24-03

Sample: CELL #4

Collected: 11-11-03 13:05:00 By: ES

Matrix: SOIL

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0311212-04A		SW846 5030A/8015A GRO by GC/FID						By: JDR		
J03570	XG.2003.2095.24		Gasoline Range Organics	ND	mg / Kg	1	0.25		11-24-03	11-24-03
0311212-04A		SW846 5030A/8021B Purgeable VOCs by GC/PID						By: JDR		
X03553	XG.2003.2123.6	71-43-2	Benzene	ND	mg / Kg	1	0.005		11-25-03	11-25-03
X03553	XG.2003.2123.6	100-41-4	Ethylbenzene	ND	mg / Kg	1	0.005		11-25-03	11-25-03
X03553	XG.2003.2123.6	95-47-6	o-Xylene	ND	mg / Kg	1	0.005		11-25-03	11-25-03
X03553	XG.2003.2123.6	108-38-3/106-42	p/m-Xylenes	ND	mg / Kg	1	0.01		11-25-03	11-25-03
X03553	XG.2003.2123.6	108-88-3	Toluene	ND	mg / Kg	1	0.005		11-25-03	11-25-03
0311212-04A		SW846 ME/8015A Diesel Range Organics by GC/FID						By: JDR		
X03571	XG.2003.2108.23		Diesel Range Organics	ND	mg / Kg	1	25		11-24-03	11-25-03
0311212-04C		SW846 1311/3010A/6010B ICP TCLP						By: KDW		
M031613	MT.2003.1677.22	7440-38-2	Arsenic	ND	mg / L	10	0.2		12-01-03	12-02-03
M031595	MT.2003.1650.22	7440-39-3	Barium	1.4	mg / L	10	0.1		11-24-03	11-26-03
M031595	MT.2003.1650.22	7440-43-9	Cadmium	ND	mg / L	10	0.02		11-24-03	11-26-03
M031595	MT.2003.1650.22	7440-47-3	Chromium	ND	mg / L	10	0.02		11-24-03	11-26-03
M031595	MT.2003.1650.22	7439-92-1	Lead	ND	mg / L	10	0.05		11-24-03	11-26-03
M031595	MT.2003.1650.22	7782-49-2	Selenium	ND	mg / L	10	0.05		11-24-03	11-26-03
M031595	MT.2003.1650.22	7440-22-4	Silver	ND	mg / L	10	0.04		11-24-03	11-26-03
0311212-04C		SW846 1311/7470A CVAA TCLP						By: DAH		
M031591	MT.2003.1630.21	7439-97-6	Mercury	ND	mg / L	1	0.0002		11-24-03	11-24-03

Assaigai Analytical Laboratories, Inc.

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## Certificate of Analysis

Client: EDDIE SEAY CONSULTING

Project: EPI LANDFARM

Order: 0311212 EDD01

Receipt: 11-12-03

Sample: CELL #5

Collected: 11-11-03 13:25:00 By: ES

Matrix: SOIL

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0311212-05A SW846 5030A/8015A GRO by GC/FID By: JDR										
X03570	XG.2003.2100.3		Gasoline Range Organics	ND	mg / Kg	1	0.25		11-25-03	11-25-03
0311212-05A SW846 5030A/8021B Purgeable VOCs by GC/PID By: JDR										
X03553	XG.2003.2123.7	71-43-2	Benzene	ND	mg / Kg	1	0.005		11-25-03	11-25-03
X03553	XG.2003.2123.7	100-41-4	Ethylbenzene	ND	mg / Kg	1	0.005		11-25-03	11-25-03
X03553	XG.2003.2123.7	95-47-6	o-Xylene	ND	mg / Kg	1	0.005		11-25-03	11-25-03
X03553	XG.2003.2123.7	108-38-3/106-42	p/m-Xylenes	ND	mg / Kg	1	0.01		11-25-03	11-25-03
X03553	XG.2003.2123.7	108-88-3	Toluene	ND	mg / Kg	1	0.005		11-25-03	11-25-03
0311212-05A SW846 ME/8015A Diesel Range Organics by GC/FID By: JDR										
X03571	XG.2003.2108.36		Diesel Range Organics	ND	mg / Kg	1	25		11-24-03	11-25-03
0311212-05C SW846 1311/3010A/6010B ICP TCLP By: KDW										
M031613	MT.2003.1677.23	7440-38-2	Arsenic	ND	mg / L	10	0.2		12-01-03	12-02-03
M031595	MT.2003.1650.23	7440-39-3	Barium	1.0	mg / L	10	0.1		11-24-03	11-26-03
M031595	MT.2003.1650.23	7440-43-9	Cadmium	ND	mg / L	10	0.02		11-24-03	11-26-03
M031595	MT.2003.1650.23	7440-47-3	Chromium	ND	mg / L	10	0.02		11-24-03	11-26-03
M031595	MT.2003.1650.23	7439-92-1	Lead	ND	mg / L	10	0.05		11-24-03	11-26-03
M031595	MT.2003.1650.23	7782-49-2	Selenium	ND	mg / L	10	0.05		11-24-03	11-26-03
M031595	MT.2003.1650.23	7440-22-4	Silver	ND	mg / L	10	0.04		11-24-03	11-26-03
0311212-05C SW846 1311/7470A CVAA TCLP By: DAH										
M031591	MT.2003.1630.22	7439-97-6	Mercury	ND	mg / L	1	0.0002		11-24-03	11-24-03

Sample: CELL #6

Collected: 11-11-03 13:50:00 By: ES

Matrix: SOIL

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0311212-06A SW846 5030A/8015A GRO by GC/FID By: JDR										
X03570	XG.2003.2100.4		Gasoline Range Organics	ND	mg / Kg	1	0.25		11-25-03	11-25-03
0311212-06A SW846 5030A/8021B Purgeable VOCs by GC/PID By: JDR										
X03553	XG.2003.2123.26	71-43-2	Benzene	ND	mg / Kg	1	0.005		11-26-03	11-26-03
X03553	XG.2003.2123.26	100-41-4	Ethylbenzene	ND	mg / Kg	1	0.005		11-26-03	11-26-03
X03553	XG.2003.2123.26	95-47-6	o-Xylene	ND	mg / Kg	1	0.005		11-26-03	11-26-03
X03553	XG.2003.2123.26	108-38-3/106-42	p/m-Xylenes	ND	mg / Kg	1	0.01		11-26-03	11-26-03
X03553	XG.2003.2123.26	108-88-3	Toluene	ND	mg / Kg	1	0.005		11-26-03	11-26-03
0311212-06A SW846 ME/8015A Diesel Range Organics by GC/FID By: JDR										
X03571	XG.2003.2108.37		Diesel Range Organics	ND	mg / Kg	1	25		11-24-03	11-25-03
0311212-06C SW846 1311/3010A/6010B ICP TCLP By: KDW										
M031613	MT.2003.1677.24	7440-38-2	Arsenic	ND	mg / L	10	0.2		12-01-03	12-02-03
M031595	MT.2003.1650.24	7440-39-3	Barium	ND	mg / L	10	0.1		11-24-03	11-26-03



Assagai Analytical Laboratories, Inc.

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## Certificate of Analysis

Client: EDDIE SEAY CONSULTING

Project: EPI LANDFARM

Order: 0311212 EDD01

Receipt: 11-12-03

Sample: CELL #6

Collected: 11-11-03 13:50:00 By: ES

Matrix: SOIL

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0311212-06C		SW846 1311/3010A/6010B ICP TCLP			By: KDW					
M031595	MT.2003.1650.24	7440-43-9	Cadmium	ND	mg / L	10	0.02		11-24-03	11-26-03
M031595	MT.2003.1650.24	7440-47-3	Chromium	ND	mg / L	10	0.02		11-24-03	11-26-03
M031595	MT.2003.1650.24	7439-92-1	Lead	ND	mg / L	10	0.05		11-24-03	11-26-03
M031595	MT.2003.1650.24	7782-49-2	Selenium	ND	mg / L	10	0.05		11-24-03	11-26-03
M031595	MT.2003.1650.24	7440-22-4	Silver	ND	mg / L	10	0.04		11-24-03	11-26-03
0311212-06C		SW846 1311/7470A CVAA TCLP			By: DAH					
M031591	MT.2003.1630.25	7439-97-6	Mercury	0.0003	mg / L	1	0.0002		11-24-03	11-24-03

Sample: CELL #7

Collected: 11-11-03 14:15:00 By: ES

Matrix: SOIL

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0311212-07A		SW846 5030A/8015A GRO by GC/FID			By: JDR					
X03570	XG.2003.2100.5		Gasoline Range Organics	ND	mg / Kg	1	0.25		11-25-03	11-25-03
0311212-07A		SW846 5030A/8021B Purgeable VOCs by GC/PID			By: JDR					
X03553	XG.2003.2123.9	71-43-2	Benzene	ND	mg / Kg	1	0.005		11-25-03	11-25-03
X03553	XG.2003.2123.9	100-41-4	Ethylbenzene	ND	mg / Kg	1	0.005		11-25-03	11-25-03
X03553	XG.2003.2123.9	95-47-6	o-Xylene	ND	mg / Kg	1	0.005		11-25-03	11-25-03
X03553	XG.2003.2123.9	108-38-3/106-42	p/m-Xylenes	ND	mg / Kg	1	0.01		11-25-03	11-25-03
X03553	XG.2003.2123.9	108-88-3	Toluene	ND	mg / Kg	1	0.005		11-25-03	11-25-03
0311212-07A		SW846 ME/8015A Diesel Range Organics by GC/FID			By: JDR					
X03571	XG.2003.2108.38		Diesel Range Organics	ND	mg / Kg	1	25		11-24-03	11-25-03
0311212-07C		SW846 1311/3010A/6010B ICP TCLP			By: KDW					
M031613	MT.2003.1677.25	7440-38-2	Arsenic	ND	mg / L	10	0.2		12-01-03	12-02-03
M031595	MT.2003.1650.25	7440-39-3	Barium	ND	mg / L	10	0.1		11-24-03	11-26-03
M031595	MT.2003.1650.25	7440-43-9	Cadmium	ND	mg / L	10	0.02		11-24-03	11-26-03
M031595	MT.2003.1650.25	7440-47-3	Chromium	ND	mg / L	10	0.02		11-24-03	11-26-03
M031595	MT.2003.1650.25	7439-92-1	Lead	ND	mg / L	10	0.05		11-24-03	11-26-03
M031595	MT.2003.1650.25	7782-49-2	Selenium	ND	mg / L	10	0.05		11-24-03	11-26-03
M031595	MT.2003.1650.25	7440-22-4	Silver	ND	mg / L	10	0.04		11-24-03	11-26-03
0311212-07C		SW846 1311/7470A CVAA TCLP			By: DAH					
M031591	MT.2003.1630.26	7439-97-6	Mercury	ND	mg / L	1	0.0002		11-24-03	11-24-03

Assagai Analytical Laboratories, Inc.

STANDARD

## Certificate of Analysis

Client: EDDIE SEAY CONSULTING

Project: EPI LANDFARM

Order: 0311212 EDD01

Receipt: 11-12-03

Sample: CELL #8

Collected: 11-11-03 14:35:00 By: ES

Matrix: SOIL

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0311212-08A SW846 5030A/8015A GRO by GC/FID By: JDR										
X03570	XG.2003.2100.6		Gasoline Range Organics	ND	mg / Kg	1	0.25		11-25-03	11-25-03
0311212-08A SW846 5030A/8021B Purgeable VOCs by GC/PID By: JDR										
X03579	XG.2003.2123.14	71-43-2	Benzene	ND	mg / Kg	1	0.005		11-25-03	11-25-03
X03579	XG.2003.2123.14	100-41-4	Ethylbenzene	ND	mg / Kg	1	0.005		11-25-03	11-25-03
X03579	XG.2003.2123.14	95-47-6	o-Xylene	ND	mg / Kg	1	0.005		11-25-03	11-25-03
X03579	XG.2003.2123.14	108-38-3/106-42	p/m-Xylenes	ND	mg / Kg	1	0.01		11-25-03	11-25-03
X03579	XG.2003.2123.14	108-88-3	Toluene	ND	mg / Kg	1	0.005		11-25-03	11-25-03
0311212-08A SW846 ME/8015A Diesel Range Organics by GC/FID By: JDR										
X03571	XG.2003.2108.39		Diesel Range Organics	ND	mg / Kg	1	25		11-24-03	11-25-03
0311212-08C SW846 1311/3010A/6010B ICP TCLP By: KDW										
M031614	MT.2003.1677.38	7440-38-2	Arsenic	ND	mg / L	10	0.2		12-01-03	12-02-03
M031595	MT.2003.1650.26	7440-39-3	Barium	1.2	mg / L	10	0.1		11-24-03	11-26-03
M031595	MT.2003.1650.26	7440-43-9	Cadmium	ND	mg / L	10	0.02		11-24-03	11-26-03
M031595	MT.2003.1650.26	7440-47-3	Chromium	ND	mg / L	10	0.02		11-24-03	11-26-03
M031595	MT.2003.1650.26	7439-92-1	Lead	ND	mg / L	10	0.05		11-24-03	11-26-03
M031595	MT.2003.1650.26	7782-49-2	Selenium	ND	mg / L	10	0.05		11-24-03	11-26-03
M031595	MT.2003.1650.26	7440-22-4	Silver	ND	mg / L	10	0.04		11-24-03	11-26-03
0311212-08C SW846 1311/7470A CVAA TCLP By: DAH										
M031591	MT.2003.1630.27	7439-97-6	Mercury	0.0006	mg / L	1	0.0002		11-24-03	11-24-03

Sample: CELL #9

Collected: 11-11-03 15:00:00 By: ES

Matrix: SOIL

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0311212-09A SW846 5030A/8015A GRO by GC/FID By: JDR										
X03570	XG.2003.2100.7		Gasoline Range Organics	ND	mg / Kg	1	0.25		11-25-03	11-25-03
0311212-09A SW846 5030A/8021B Purgeable VOCs by GC/PID By: JDR										
X03579	XG.2003.2123.18	71-43-2	Benzene	ND	mg / Kg	1	0.005		11-25-03	11-25-03
X03579	XG.2003.2123.18	100-41-4	Ethylbenzene	ND	mg / Kg	1	0.005		11-25-03	11-25-03
X03579	XG.2003.2123.18	95-47-6	o-Xylene	ND	mg / Kg	1	0.005		11-25-03	11-25-03
X03579	XG.2003.2123.18	108-38-3/106-42	p/m-Xylenes	ND	mg / Kg	1	0.01		11-25-03	11-25-03
X03579	XG.2003.2123.18	108-88-3	Toluene	ND	mg / Kg	1	0.005		11-25-03	11-25-03
0311212-09A SW846 ME/8015A Diesel Range Organics by GC/FID By: JDR										
X03572	XG.2003.2115.6		Diesel Range Organics	ND	mg / Kg	1	25		11-24-03	11-24-03
0311212-09C SW846 1311/3010A/6010B ICP TCLP By: KDW										
M031614	MT.2003.1677.39	7440-38-2	Arsenic	ND	mg / L	10	0.2		12-01-03	12-02-03
M031595	MT.2003.1650.27	7440-39-3	Barium	1.2	mg / L	10	0.1		11-24-03	11-26-03



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Assaigai Analytical Laboratories, Inc.

## Certificate of Analysis

Client: EDDIE SEAY CONSULTING

Project: EPI LANDFARM

Order: 0311212 EDD01

Receipt: 11-12-03

Sample: CELL #9

Collected: 11-11-03 15:00:00 By: ES

Matrix: SOIL

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0311212-09C		SW846 1311/3010A/6010B ICP TCLP				By: KDW				
M031595	MT.2003.1650.27	7440-43-9	Cadmium	ND	mg / L	10	0.02		11-24-03	11-26-03
M031595	MT.2003.1650.27	7440-47-3	Chromium	ND	mg / L	10	0.02		11-24-03	11-26-03
M031595	MT.2003.1650.27	7439-92-1	Lead	ND	mg / L	10	0.05		11-24-03	11-26-03
M031595	MT.2003.1650.27	7782-49-2	Selenium	ND	mg / L	10	0.05		11-24-03	11-26-03
M031595	MT.2003.1650.27	7440-22-4	Silver	ND	mg / L	10	0.04		11-24-03	11-26-03
0311212-09C		SW846 1311/7470A CVAA TCLP				By: DAH				
M031591	MT.2003.1630.28	7439-97-6	Mercury	ND	mg / L	1	0.0002		11-24-03	11-24-03

Sample: CELL #10

Collected: 11-11-03 15:30:00 By: ES

Matrix: SOIL

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0311212-10A		SW846 5030A/8015A GRO by GC/FID				By: JDR				
X03578	XG.2003.2117.5		Gasoline Range Organics	ND	mg / Kg	1	0.25		11-25-03	11-25-03
0311212-10A		SW846 5030A/8021B Purgeable VOCs by GC/PID				By: JDR				
X03579	XG.2003.2123.19	71-43-2	Benzene	ND	mg / Kg	1	0.005		11-25-03	11-25-03
X03579	XG.2003.2123.19	100-41-4	Ethylbenzene	ND	mg / Kg	1	0.005		11-25-03	11-25-03
X03579	XG.2003.2123.19	95-47-6	o-Xylene	ND	mg / Kg	1	0.005		11-25-03	11-25-03
X03579	XG.2003.2123.19	108-38-3/106-42	p/m-Xylenes	ND	mg / Kg	1	0.01		11-25-03	11-25-03
X03579	XG.2003.2123.19	108-88-3	Toluene	ND	mg / Kg	1	0.005		11-25-03	11-25-03
0311212-10A		SW846 ME/8015A Diesel Range Organics by GC/FID				By: JDR				
X03572	XG.2003.2115.9		Diesel Range Organics	ND	mg / Kg	1	25		11-24-03	11-24-03
0311212-10C		SW846 1311/3010A/6010B ICP TCLP				By: KDW				
M031614	MT.2003.1677.40	7440-38-2	Arsenic	ND	mg / L	10	0.2		12-01-03	12-02-03
M031595	MT.2003.1650.28	7440-39-3	Barium	1.2	mg / L	10	0.1		11-24-03	11-26-03
M031595	MT.2003.1650.28	7440-43-9	Cadmium	ND	mg / L	10	0.02		11-24-03	11-26-03
M031595	MT.2003.1650.28	7440-47-3	Chromium	ND	mg / L	10	0.02		11-24-03	11-26-03
M031595	MT.2003.1650.28	7439-92-1	Lead	ND	mg / L	10	0.05		11-24-03	11-26-03
M031595	MT.2003.1650.28	7782-49-2	Selenium	ND	mg / L	10	0.05		11-24-03	11-26-03
M031595	MT.2003.1650.28	7440-22-4	Silver	ND	mg / L	10	0.04		11-24-03	11-26-03
0311212-10C		SW846 1311/7470A CVAA TCLP				By: DAH				
M031591	MT.2003.1630.29	7439-97-6	Mercury	ND	mg / L	1	0.0002		11-24-03	11-24-03

Assagai Analytical Laboratories, Inc.

STANDARD

## Certificate of Analysis

Client: EDDIE SEAY CONSULTING

Project: EPI LANDFARM

Order: 0311212 EDD01

Receipt: 11-12-03

Sample: CELL #11

Collected: 11-11-03 16:00:00 By: ES

Matrix: SOIL

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0311212-11A SW846 5030A/8015A GRO by GC/FID By: JDR										
X03578	XG.2003.2117.8		Gasoline Range Organics	ND	mg / Kg	1	0.25		11-25-03	11-25-03
0311212-11A SW846 5030A/8021B Purgeable VOCs by GC/PID By: JDR										
X03579	XG.2003.2123.20	71-43-2	Benzene	ND	mg / Kg	1	0.005		11-25-03	11-25-03
X03579	XG.2003.2123.20	100-41-4	Ethylbenzene	ND	mg / Kg	1	0.005		11-25-03	11-25-03
X03579	XG.2003.2123.20	95-47-6	o-Xylene	ND	mg / Kg	1	0.005		11-25-03	11-25-03
X03579	XG.2003.2123.20	108-38-3/106-42	p/m-Xylenes	ND	mg / Kg	1	0.01		11-25-03	11-25-03
X03579	XG.2003.2123.20	108-88-3	Toluene	ND	mg / Kg	1	0.005		11-25-03	11-25-03
0311212-11A SW846 ME/8015A Diesel Range Organics by GC/FID By: JDR										
X03572	XG.2003.2115.10		Diesel Range Organics	ND	mg / Kg	1	25		11-24-03	11-24-03
0311212-11C SW846 1311/3010A/6010B ICP TCLP By: KDW										
M031614	MT.2003.1677.41	7440-38-2	Arsenic	ND	mg / L	10	0.2		12-01-03	12-02-03
M031595	MT.2003.1650.29	7440-39-3	Barium	ND	mg / L	10	0.1		11-24-03	11-26-03
M031595	MT.2003.1650.29	7440-43-9	Cadmium	ND	mg / L	10	0.02		11-24-03	11-26-03
M031595	MT.2003.1650.29	7440-47-3	Chromium	ND	mg / L	10	0.02		11-24-03	11-26-03
M031595	MT.2003.1650.29	7439-92-1	Lead	ND	mg / L	10	0.05		11-24-03	11-26-03
M031595	MT.2003.1650.29	7782-49-2	Selenium	ND	mg / L	10	0.05		11-24-03	11-26-03
M031595	MT.2003.1650.29	7440-22-4	Silver	ND	mg / L	10	0.04		11-24-03	11-26-03
0311212-11C SW846 1311/7470A CVAA TCLP By: DAH										
M031591	MT.2003.1630.30	7439-97-6	Mercury	ND	mg / L	1	0.0002		11-24-03	11-24-03

Sample: CELL #12

Collected: 11-11-03 16:30:00 By: ES

Matrix: SOIL

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0311212-12A SW846 5030A/8015A GRO by GC/FID By: JDR										
X03578	XG.2003.2117.9		Gasoline Range Organics	ND	mg / Kg	1	0.25		11-25-03	11-25-03
0311212-12A SW846 5030A/8021B Purgeable VOCs by GC/PID By: JDR										
X03579	XG.2003.2123.21	71-43-2	Benzene	ND	mg / Kg	1	0.005		11-25-03	11-25-03
X03579	XG.2003.2123.21	100-41-4	Ethylbenzene	ND	mg / Kg	1	0.005		11-25-03	11-25-03
X03579	XG.2003.2123.21	95-47-6	o-Xylene	ND	mg / Kg	1	0.005		11-25-03	11-25-03
X03579	XG.2003.2123.21	108-38-3/106-42	p/m-Xylenes	ND	mg / Kg	1	0.01		11-25-03	11-25-03
X03579	XG.2003.2123.21	108-88-3	Toluene	ND	mg / Kg	1	0.005		11-25-03	11-25-03
0311212-12A SW846 ME/8015A Diesel Range Organics by GC/FID By: JDR										
X03572	XG.2003.2115.11		Diesel Range Organics	ND	mg / Kg	1	25		11-24-03	11-24-03
0311212-12C SW846 1311/3010A/6010B ICP TCLP By: KDW										
M031614	MT.2003.1677.43	7440-38-2	Arsenic	ND	mg / L	10	0.2		12-01-03	12-02-03
M031595	MT.2003.1650.34	7440-39-3	Barium	ND	mg / L	10	0.1		11-24-03	11-26-03



STANDARD

Assaigai Analytical Laboratories, Inc.

## Certificate of Analysis

Client: EDDIE SEAY CONSULTING

Project: EPI LANDFARM

Order: 0311212 EDD01

Receipt: 11-12-03

Sample: CELL #12

Collected: 11-11-03 16:30:00 By: ES

Matrix: SOIL

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
0311212-12C		SW846 1311/3010A/6010B ICP TCLP						By: KDW		
M031595	MT.2003.1650.34	7440-43-9	Cadmium	ND	mg / L	10	0.02		11-24-03	11-26-03
M031595	MT.2003.1650.34	7440-47-3	Chromium	ND	mg / L	10	0.02		11-24-03	11-26-03
M031595	MT.2003.1650.34	7439-92-1	Lead	ND	mg / L	10	0.05		11-24-03	11-26-03
M031614	MT.2003.1677.43	7782-49-2	Selenium	ND	mg / L	10	0.05		12-01-03	12-02-03
M031595	MT.2003.1650.34	7440-22-4	Silver	ND	mg / L	10	0.04		11-24-03	11-26-03
0311212-12C		SW846 1311/7470A CVAA TCLP						By: DAH		
M031591	MT.2003.1630.32	7439-97-6	Mercury	0.0005	mg / L	1	0.0002		11-24-03	11-24-03

Unless otherwise noted, all samples were received in acceptable condition and all sampling was performed by client or client representative. Sample result of ND indicates Not Detected, ie result is less than the sample specific Detection Limit. Sample specific Detection Limit is determined by multiplying the sample Dilution Factor by the listed Reporting Detection Limit. All results relate only to the items tested. Any miscellaneous workorder information or footnotes will appear below.

1 This sample was utilized for the matrix spike and duplicate. Please note that the recoveries were outside of QC criteria, suggesting matrix interference problems. This should be taken into account when reviewing the data.



**THE REPRODUCTION OF  
THE  
FOLLOWING  
DOCUMENT ( S )  
CANNOT BE IMPROVED  
DUE TO  
THE CONDITION OF  
THE ORIGINAL**



## Chain of Custody Record

ASSAIGAI  
ANALYTICAL  
LABORATORIES, INC.

4300 Westhead N.E.  
ALBUQUERQUE, NEW MEXICO 87109  
(505) 345-8984

3332 MEDGEWOOD  
EL PASO, TEXAS 79925  
(815) 593-6000

127 EASTGATE DRIVE, 212-C  
LOS ALAMOS, NEW MEXICO 87544  
(505) 642-2558

Job No. 0516 Date 11/12/12

Page 1 of 1

Client Eckle Sea Consulting  
Address 601 W ILLINOIS  
City / State / Zip Hobbs N.M. 88242  
Project Name / Number EPI Landform

Project Manager / Contact Eckle Sea  
Telephone No. 505 392 2236  
Fax No. 505 392 6449  
Samplers (signature) Eckle Sea

Contract / Purchase Order / Quote

ALL Region Number	FRG Sample Number	Location	QTY	TIME	DATE	WEIGHT/ANALYSIS	PROTECTION Temp.	SHIPPING
01A.R.C. Cell #1			11/10	11:45	11/10	3 - 400 lbs	11/10	11/10
02A.B.C. Cell #2			"	12:10	"	"	"	"
03A.B.C. Cell #3			"	12:30	"	"	"	"
04A.B.C. Cell #4			"	11:05	"	"	"	"
05A.B.C. Cell #5			"	11:25	"	"	"	"
06A.B.C. Cell #6			"	11:50	"	"	"	"
07A.B.C. Cell #7			"	12:15	"	"	"	"
08A.B.C. Cell #8			"	12:35	"	"	"	"
09A.B.C. Cell #9			"	13:00	"	"	"	"
10A.B.C. Cell #10			"	13:30	"	"	"	"
11A.B.C. Cell #11			"	14:10	"	"	"	"
12A.B.C. Cell #12			"	14:30	"	"	"	"

Relinquished by: Signature <u>Eckle Sea</u> Printed <u>Eckle Sea</u> Company <u>Eckle Sea</u> Reason <u>Trans To Lab</u>		Received by: Signature <u>Ship Taber</u> Printed <u>Ship Taber</u> Company <u>Ship Taber</u> Reason <u>Trans To Lab</u>		Date <u>11/12</u> Time <u>18:11</u>	Relinquished by: Signature _____ Printed _____ Company _____ Reason _____	Received by: Signature _____ Printed _____ Company _____ Reason _____	Date _____ Time _____
Method of Shipment _____ Shipment No. _____ Special Instructions: _____		Comments: <u>IPH DIS is FROM GLO PER</u> <u>SHIP 11/12/12</u>		After analysis, samples are to be: <input type="checkbox"/> Disposed of (additional fee) <input type="checkbox"/> Stored (30 days max) <input type="checkbox"/> Stored over 30 days (additional fee) <input type="checkbox"/> Returned to customer			

CARRIER

RECEIVED

NOV 18 2004

OIL CONSERVATION  
DIVISION

November 15, 2004

NM-1-0013

NMOCD Environmental  
ATTN: Ed Martin  
P.O. Box 6429  
1220 S. Saint Francis Drive  
Santa Fe, NM 87504

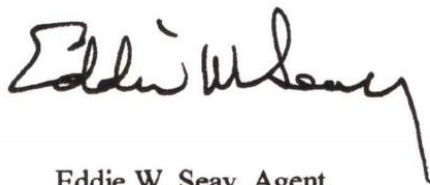
RE: EPI Landfarm  
Yearly Treatment Zone Test

Mr. Martin:

As permit requires, find yearly treatment zone tests for EPI Landfarm. Samples were taken at approximately two feet in depth. Sample holes were backfilled with bentonite.

If you have any questions, please call.

Sincerely,



Eddie W. Seay, Agent  
601 W. Illinois  
Hobbs, NM 88242  
(505)392-2236





PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR  
EDDIE SEAY CONSULTING  
ATTN: EDDIE SEAY  
601 W. ILLINOIS  
HOBBS, NM 88242  
FAX TO: (505) 392-6949

Receiving Date: 11/05/04  
Reporting Date: 11/11/04  
Project Owner: C. BETTIS  
Project Name: EPI LANDFARM  
Project Location: EUNICE, NM

Sampling Date: 11/05/04  
Sample Type: SOIL  
Sample Condition: COOL & INTACT  
Sample Received By: AH  
Analyzed By: AH

## TCLP METALS

LAB NO.	SAMPLE ID	As ppm	Ag ppm	Ba ppm	Cd ppm	Cr ppm	Pb ppm	Hg ppm	Se ppm
ANALYSIS DATE:		11/10/04	11/9/04	11/9/04	11/9/04	11/9/04	11/9/04	11/9/04	11/11/04
EPA LIMITS:		5	5	100	1	5	5	0.2	1
H9323-1	CELL 1	<1	<1	<5	<0.1	<1	<1	<0.02	<0.1
H9323-2	CELL 2	<1	<1	<5	<0.1	<1	<1	<0.02	<0.1
H9323-3	CELL 3	<1	<1	<5	<0.1	<1	<1	<0.02	<0.1
H9323-4	CELL 4	<1	<1	<5	<0.1	<1	<1	<0.02	<0.1
H9323-5	CELL 5	<1	<1	<5	<0.1	<1	<1	<0.02	<0.1
H9323-6	CELL 6	<1	<1	<5	<0.1	<1	<1	<0.02	<0.1
H9323-7	CELL 7	<1	<1	<5	<0.1	<1	<1	<0.02	<0.1
H9323-8	CELL 8	<1	<1	<5	<0.1	<1	<1	<0.02	<0.1
H9323-9	CELL 9	<1	<1	<5	<0.1	<1	<1	<0.02	<0.1
H9323-10	CELL 10	<1	<1	<5	<0.1	<1	<1	<0.02	<0.1
H9323-11	CELL 11	<1	<1	<5	<0.1	<1	<1	<0.02	<0.1
H9323-12	CELL 12	<1	<1	<5	<0.1	<1	<1	<0.02	<0.1
H9323-13	CELL 13	<1	<1	<5	<0.1	<1	<1	<0.02	<0.1
Quality Control		0.051	4.928	23.58	1.113	4.857	5.339	0.0100	0.053
True Value QC		0.050	5.000	25.00	1.000	5.000	5.000	0.0100	0.050
% Recovery		102	98.6	94.3	111	97.1	107	101	106
Relative Standard Deviation		0.8	0.6	5.6	2.6	3.4	1.8	1.0	1.4

METHODS: EPA 1311, 600/4-91,	206.2	272.1	208.1	213.1	218.1	239.1	245.1	270.2
------------------------------	-------	-------	-------	-------	-------	-------	-------	-------

  
Chemist

11/11/04  
Date

H9323  
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.





## CARDINAL LABORATORIES, INC.

2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240  
 (915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 2

Company Name: <b>Edwards Survey Consulting</b>		Billed To: <b>PO #:</b>	
Project Manager: <b>Edwards</b>		Company:	
Address: <b>1211 W. Tillman</b>		City:	
City: <b>Hobbs</b>		State: <b>NM</b> Zip: <b>88242</b>	
Phone #: <b>2-2236</b>		City:	
Fax #: <b>2-6949</b>		State:	
Project #: <b>EPI</b>		Project Owner: <b>C. Rodis</b>	
Project Name: <b>EPI Landfarm</b>		Phone #:	
Project Location: <b>Emmick D.M.</b>		Fax #:	
FOR LAB USE ONLY			
LAB I.D.	Sample I.D.	GFACTOR (C)OMP.	
		# CONTAINERS	
H9383-1 -2 -3 -4 -5 -6 -7 -8 -9 -10	1	✓	✓
	2	✓	✓
	3	✓	✓
	4	✓	✓
	5	✓	✓
	6	✓	✓
	7	✓	✓
	8	✓	✓
	9	✓	✓
	10	✓	✓
DATE		TIME	
11/5		9:15	BTEX
		9:40	TPH (8015)
		10:10	TCLP metal
		10:30	
		10:50	
		11:15	
		11:40	
		11:55	
		12:20	
		12:40	
		1:00	

PLEASE NOTE: Laboratory and Cardinal's liability and there's continued remedy for any claim arising from the use of the above information is limited to the amount paid by the client for the analysis. All claims including those for negligence and any other claims whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In the event that Cardinal is held liable for negligent or consequential damages, including without limitation, business interruptions, loss of data, or loss of profits sustained by client, the maximum amount of damages shall be limited to the amount paid by the client for the above stated analysis or otherwise.

Sampler Relinquished By: **Edwards** Date: **11/5** Time: **2:35** Received By: **Lab Staff** Date: **11/5/04** Time: **11:04**

Delivered By: (Circle One) **Other** Sample Condition: **Cool** ☐ Yes ☒ No ☐ No

Sampler - UPS - Bus - Other: ☐ Yes ☒ No

Checked By: (Initials) **mm**

REMARKS: **Phone Result: [ ] Yes [ ] No Additional Fax #: [ ]**

Terms and Conditions: Invoiced will be charged on all accounts more than 30 days past due at the rate of 2.5% per annum from the original date of invoice, and at cost of collection, including attorney's fees.





## CARDINAL LABORATORIES, INC.

2111 Beechwood, Abilene, TX 79803 101 East Marland, Hobbs, NM 88240  
 (915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 2 of 2

## ANALYSIS REQUEST

Company Name: Eddies Soap Consulting  
 Project Manager: Eddies Soap

Company: BLITZ PO #:

Address: 101 W Illinois

Company:

City: Abilene State: NM Zip: 79802

Attn:

Phone #: 2-2236

Address:

Fax #: 2-6949

City:

Project #: EPT Project Owner: C. Rader

State:

Project Name: EPT Landfarm

Phone #:

Project Location: Concepcion NM

Fax #:

FOR LAB USE ONLY

MATRIX

PRES.

SAMPLING

LAB I.D.

Sample I.D.

(GRAB OR COMP.)

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID:

ICE / COOL

OTHER :

DATE

TIME

BTEX

TPH (815)

TCLP Metal

PLEASE NOTE: Liability and Damages. Cardinal's liability and damage recovery for any claim arising under this contract or tort, shall be limited to the amount paid by the client for the analysis. All claims including those for negligence and any other claims whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable analysis. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or associates arising out of or related to the performance of services hereunder by Cardinal. Signatures of whether each claim is based upon any of the above stated matters or otherwise.

Sampler Relinquished:

Date:

Time:

2:35

Received By:

Phone Result:

Yes

No

Additional Fax #:

Yes

No

REMARKS:

Relinquished By:

Date:

Time:

2:35

Received By: (Lab Staff)

Delivered By: (Circle One)

Sample Condition

Cool

Intact

Yes

No

Checked By:

(Initials)

Sampler - UPS - Bus - Other:

† Cardinal cannot accept verbal changes. Please fax written changes to 915-673-7020.

Terms and Conditions: Invoice will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collection, including attorney's fees.

June 20, 2005

**RECEIVED**  
JUN 28 2005  
OIL CONSERVATION  
DIVISION

NMOCD Environmental  
ATTN: Ed Martin  
Box 6429  
1220 S. Saint Francis Drive  
Santa Fe, NM 87504

RE: EPI Landfarm  
Quarterly Samples

Nm-1-013

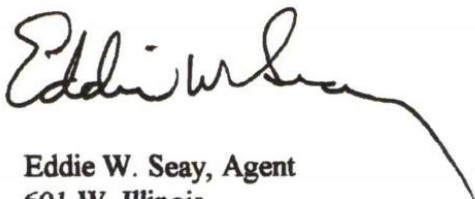
Mr. Martin:

Enclosed are the quarterly treatment zone samples for EPI Landfarm. Samples were taken at approximately two feet below each cell, and holes backfilled with bentonite.

During the sampling, an inspection was done on the facility, all was in compliance.

If you have any questions, please call.

Sincerely,



Eddie W. Seay, Agent  
601 W. Illinois  
Hobbs, NM 88242  
(505)392-2236  
seay04@leaco.net





PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR  
EDDIE SEAY CONSULTING  
ATTN: EDDIE SEAY  
601 WEST ILLINOIS  
HOBBS, NM 88242

Receiving Date: 5/26/2005  
Reporting Date: 5/31/2005  
Project Number: EPI LAND FARM  
Project Name: EPI LAND FARM QUARTERLY  
Project Location: EUNICE

Sampling Date: 5/25/2005  
Sample Type: SOIL  
Sample Condition: COOL & INTACT  
Sample Received By: NF  
Analyzed By: JD

LAB NUMBER	SAMPLE ID	MTBE (mg/kg)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYLBENZENE (mg/kg)	TOTAL XYLENES (mg/kg)
ANALYSIS DATE:		5/31/05	5/31/05	5/31/05	5/31/05	5/31/05
H9822-1	CELL #1	<.002	<.002	<.002	<.002	<.006
H9822-2	CELL #2	<.002	<.002	<.002	<.002	<.006
H9822-3	CELL #3	<.002	<.002	<.002	<.002	<.006
H9822-4	CELL #4	<.002	<.002	<.002	<.002	<.006
H9822-5	CELL #5	<.002	<.002	<.002	<.002	<.006
H9822-6	CELL #6	<.002	<.002	<.002	<.002	<.006
H9822-7	CELL #7	<.002	<.002	<.002	<.002	<.006
H9822-8	CELL #8	<.002	<.002	<.002	<.002	<.006
H9822-9	CELL #9	<.002	<.002	<.002	<.002	<.006
H9822-10	CELL #10	<.002	<.002	<.002	<.002	<.006
H9822-11	CELL #11	<.002	<.002	<.002	<.002	<.006
H9822-12	CELL #12	<.002	<.002	<.002	<.002	<.006
H9822-13	CELL #13	<.002	<.002	<.002	<.002	<.006
Quality Control		0.101	0.098	0.094	0.094	0.274
True Value QC		0.100	0.100	0.100	0.100	0.300
% Recovery		101	98	94	94	91.3
Relative Percent Difference		5	0	1	2.1	1.7

METHODS: EPA - SW 846-8021B, 5030B; Gas Chromatography

Janelle DeBrie  
Chemist

5/31/2005  
Date

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# ARDINAL LABORATORIES

PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

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ANALYTICAL RESULTS FOR  
EDDIE SEAY CONSULTING  
ATTN: EDDIE SEAY  
601 W. ILLINOIS  
HOBBS, NM 88242  
FAX TO: (505) 392-6949

Receiving Date: 05/26/05  
Reporting Date: 06/04/05  
Project Owner: C. BETTIS  
Project Name: EPI LANDFARM  
Project Location: EUNICE, NM

Sampling Date: 05/25/05  
Sample Type: SOIL  
Sample Condition: COOL & INTACT  
Sample Received By: NF  
Analyzed By: BC

LAB NUMBER	SAMPLE ID	GRO	DRO
		(C <sub>6</sub> -C <sub>10</sub> ) (mg/Kg)	(>C <sub>10</sub> -C <sub>28</sub> ) (mg/Kg)
ANALYSIS DATE:		06/03/05	06/03/05
H9822-1	CELL 1	<10.0	<10.0
H9822-2	CELL 2	<10.0	<10.0
H9822-3	CELL 3	<10.0	<10.0
H9822-4	CELL 4	<10.0	<10.0
H9822-5	CELL 5	<10.0	<10.0
H9822-6	CELL 6	<10.0	<10.0
H9822-7	CELL 7	<10.0	<10.0
H9822-8	CELL 8	<10.0	<10.0
H9822-9	CELL 9	<10.0	<10.0
H9822-10	CELL 10	<10.0	<10.0
H9822-11	CELL 11	<10.0	<10.0
H9822-12	CELL 12	<10.0	<10.0
H9822-13	CELL 13	<10.0	<10.0
Quality Control		798	746
True Value QC		800	800
% Recovery		99.7	93.3
Relative Percent Difference		0.8	<0.1

METHOD: SW-846 8015 M

Chemist

H9822.XLS

Date

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## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 2

## CARDINAL LABORATORIES, INC.

2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240  
 (325) 673-7001 Fax (325) 673-7020 (505) 393-2326 Fax (505) 393-2476

BILL TO										ANALYSIS REQUEST									
Company Name: Eddie's Survey Consulting										P.O. #:									
Project Manager: Eddie's Survey Consulting										Company:									
Address: 601 W. Thirteenth										Attn: Jane									
City: Hobbs										Address: Jane									
State: NM Zip: 88240										City:									
Phone #: 2-22236										State: Zip:									
Project #: EPT Landowners										Phone #:									
Project Name: EPT LP Quatrone										Fax #:									
Project Location: Eunice																			
Sampler Name: Eddie's Survey																			
FOR LAB USE ONLY																			
Lab I.D.	Sample I.D.	MATRIX		PRESERV.		SAMPLING		DATE		TIME									
H9822-1	Cell # 1	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	5/25	7:30	✓	TPH	✓				
-2	Cell # 2	✓	✓	✓	✓	✓	✓	✓	✓	✓	"	7:50	✓	✓	✓				
-3	Cell # 3	✓	✓	✓	✓	✓	✓	✓	✓	✓	"	8:15	✓	✓	✓				
-4	Cell # 4	✓	✓	✓	✓	✓	✓	✓	✓	✓	"	8:45	✓	✓	✓				
-5	Cell # 5	✓	✓	✓	✓	✓	✓	✓	✓	✓	"	9:20	✓	✓	✓				
-6	Cell # 6	✓	✓	✓	✓	✓	✓	✓	✓	✓	"	9:55	✓	✓	✓				
-7	Cell # 7	✓	✓	✓	✓	✓	✓	✓	✓	✓	"	1:30	✓	✓	✓				
-8	Cell # 8	✓	✓	✓	✓	✓	✓	✓	✓	✓	"	2:10	✓	✓	✓				
-9	Cell # 9	✓	✓	✓	✓	✓	✓	✓	✓	✓	"	2:40	✓	✓	✓				
-10	Cell # 10	✓	✓	✓	✓	✓	✓	✓	✓	✓	"	3:00	✓	✓	✓				

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Sampler Relinquished: Eddie's Survey Date: 5/26 Time: 10:25

Relinquished By: [Signature] Date: 5/26 Time: 10:25

Received By: (Lab/Staff) [Signature]

Delivered By: (Circle One) UPS

Sampler - UPS - Bus - Other:

Checked By: [Signature] Sample Condition Temp. °C 18 Intact? Yes (Initials) [Initials]

Phone Result: Yes No Fax Result: Yes No

REMARKS:

† Cardinal cannot accept verbal changes. Please fax written changes to (325) 673-7020.









Environmental Plus, Inc.

PAT MCCASLAND  
P.O. Box 1558  
Eunice NM, 88231

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

December 06, 2018

PAT MCCASLAND

Environmental Plus, Inc.

P.O. Box 1558

Eunice, NM 88231

RE: TREATMENT ZONE SAMPLING

Enclosed are the results of analyses for samples received by the laboratory on 11/30/18 14:56.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/ga/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/ga/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM) Method EPA
524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-

of-custody. If you have any questions concerning this report, please feel free to contact me. Sincerely,

Celey D. Keene

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

## Analytical Results For:

Environmental Plus, Inc.

PAT MCCASLAND  
P.O. Box 1558  
Eunice NM, 88231

Lab Director/Quality Manager

Fax To: (505) 394-2601

Received: 11/30/2018  
Reported: 12/06/2018  
Project Name: TREATMENT ZONE SAMPLING  
Project Number: 20181130TZ  
Project Location: EPI LANDFARM

Sampling Date: 11/30/2018  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Celey D. Keene

## XI.SAMPLE ID: EPI20181130TZ - #1 (H803523-01)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/03/2018	ND	2.31	116	2.00	0.208	
Toluene*	<0.050	0.050	12/03/2018	ND	2.28	114	2.00	0.204	
Ethylbenzene*	<0.050	0.050	12/03/2018	ND	2.22	111	2.00	0.276	
Total Xylenes*	<0.150	0.150	12/03/2018	ND	6.51	108	6.00	0.287	
Total BTEX	<0.300	0.300	12/03/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.1 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/03/2018	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/04/2018	ND	217	108	200	2.20	
DRO >C10-C28*	<10.0	10.0	12/04/2018	ND	229	115	200	1.21	
EXT DRO >C28-C36	17.1	10.0	12/04/2018	ND					

Surrogate: 1-Chlorooctane 79.0 % 41-142

Surrogate: 1-Chlorooctadecane 88.8 % 37.6-147

Fax To: (505) 394-2601

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Environmental Plus, Inc.

PAT MCCASLAND  
P.O. Box 1558  
Eunice NM, 88231

Received: 11/30/2018  
Reported: 12/06/2018  
Project Name: TREATMENT ZONE SAMPLING  
Project Number: 20181130TZ  
Project Location: EPI LANDFARM

Sampling Date: 11/30/2018  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Celey D. Keene

**XII. SAMPLE ID: EPI20181130TZ - #2 (H803523-02)**

<b>BTEX 8021B</b>		<b>mg/kg</b>		<b>Analyzed By: MS</b>					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/03/2018	ND	2.31	116	2.00	0.208	
Toluene*	<0.050	0.050	12/03/2018	ND	2.28	114	2.00	0.204	
Ethylbenzene*	<0.050	0.050	12/03/2018	ND	2.22	111	2.00	0.276	
Total Xylenes*	<0.150	0.150	12/03/2018	ND	6.51	108	6.00	0.287	
Total BTEX	<0.300	0.300	12/03/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 73.3-129

<b>Chloride, SM4500CI-B</b>		<b>mg/kg</b>		<b>Analyzed By: AC</b>					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>192</b>	16.0	12/03/2018	ND	416	104	400	0.00	

<b>TPH 8015M</b>		<b>mg/kg</b>		<b>Analyzed By: MS</b>					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/04/2018	ND	217	108	200	2.20	
<b>DRO &gt;C10-C28*</b>	<b>45.4</b>	10.0	12/04/2018	ND	229	115	200	1.21	
<b>EXT DRO &gt;C28-C36</b>	<b>16.6</b>	10.0	12/04/2018	ND					

Surrogate: 1-Chlorooctane 91.1 % 41-142

Surrogate: 1-Chlorooctadecane 105 % 37.6-147

Fax To: (505) 394-2601

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Environmental Plus, Inc.

PAT MCCASLAND  
P.O. Box 1558  
Eunice NM, 88231

Received: 11/30/2018  
Reported: 12/06/2018  
Project Name: TREATMENT ZONE SAMPLING  
Project Number: 20181130TZ  
Project Location: EPI LANDFARM

Sampling Date: 11/30/2018  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Celey D. Keene

**XIII. SAMPLE ID: EPI20181130TZ - #3 (H803523-03)**

<b>BTEX 8021B</b>		<b>mg/kg</b>		<b>Analyzed By: MS</b>					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/03/2018	ND	2.31	116	2.00	0.208	
Toluene*	<0.050	0.050	12/03/2018	ND	2.28	114	2.00	0.204	
Ethylbenzene*	<0.050	0.050	12/03/2018	ND	2.22	111	2.00	0.276	
Total Xylenes*	<0.150	0.150	12/03/2018	ND	6.51	108	6.00	0.287	
Total BTEX	<0.300	0.300	12/03/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.2 % 73.3-129

<b>Chloride, SM4500Cl-B</b>		<b>mg/kg</b>		<b>Analyzed By: AC</b>					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>96.0</b>	16.0	12/03/2018	ND	416	104	400	0.00	

<b>TPH 8015M</b>		<b>mg/kg</b>		<b>Analyzed By: MS</b>					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/04/2018	ND	217	108	200	2.20	
<b>DRO &gt;C10-C28*</b>	<b>43.4</b>	10.0	12/04/2018	ND	229	115	200	1.21	
<b>EXT DRO &gt;C28-C36</b>	<b>22.2</b>	10.0	12/04/2018	ND					

Surrogate: 1-Chlorooctane 93.1 % 41-142

Surrogate: 1-Chlorooctadecane 106 % 37.6-147

Fax To: (505) 394-2601

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

Environmental Plus, Inc.

PAT MCCASLAND  
P.O. Box 1558  
Eunice NM, 88231

Received: 11/30/2018  
Reported: 12/06/2018  
Project Name: TREATMENT ZONE SAMPLING  
Project Number: 20181130TZ  
Project Location: EPI LANDFARM

Sampling Date: 11/30/2018  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Celey D. Keene

**XIV. SAMPLE ID: EPI20181130TZ - #4 (H803523-04)**

<b>BTEX 8021B</b>		<b>mg/kg</b>		<b>Analyzed By: MS</b>					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/03/2018	ND	2.31	116	2.00	0.208	
Toluene*	<0.050	0.050	12/03/2018	ND	2.28	114	2.00	0.204	
Ethylbenzene*	<0.050	0.050	12/03/2018	ND	2.22	111	2.00	0.276	
Total Xylenes*	<0.150	0.150	12/03/2018	ND	6.51	108	6.00	0.287	
Total BTEX	<0.300	0.300	12/03/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 73.3-129

<b>Chloride, SM4500Cl-B</b>		<b>mg/kg</b>		<b>Analyzed By: AC</b>					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	12/03/2018	ND	416	104	400	0.00	

<b>TPH 8015M</b>		<b>mg/kg</b>		<b>Analyzed By: MS</b>					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/04/2018	ND	217	108	200	2.20	
<b>DRO &gt;C10-C28*</b>	<b>65.4</b>	10.0	12/04/2018	ND	229	115	200	1.21	
<b>EXT DRO &gt;C28-C36</b>	<b>54.1</b>	10.0	12/04/2018	ND					

Surrogate: 1-Chlorooctane 84.5 % 41-142

Surrogate: 1-Chlorooctadecane 94.8 % 37.6-147

Fax To: (505) 394-2601

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Environmental Plus, Inc.

PAT MCCASLAND  
P.O. Box 1558  
Eunice NM, 88231

Received: 11/30/2018  
Reported: 12/06/2018  
Project Name: TREATMENT ZONE SAMPLING  
Project Number: 20181130TZ  
Project Location: EPI LANDFARM

Sampling Date: 11/30/2018  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Celey D. Keene

**XV. SAMPLE ID: EPI20181130TZ - #5 (H803523-05)**

<b>BTEX 8021B</b>		<b>mg/kg</b>		<b>Analyzed By: MS</b>					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/03/2018	ND	2.31	116	2.00	0.208	
Toluene*	<0.050	0.050	12/03/2018	ND	2.28	114	2.00	0.204	
Ethylbenzene*	<0.050	0.050	12/03/2018	ND	2.22	111	2.00	0.276	
Total Xylenes*	<0.150	0.150	12/03/2018	ND	6.51	108	6.00	0.287	
Total BTEX	<0.300	0.300	12/03/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.1 % 73.3-129

<b>Chloride, SM4500Cl-B</b>		<b>mg/kg</b>		<b>Analyzed By: AC</b>					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>48.0</b>	16.0	12/03/2018	ND	416	104	400	0.00	

<b>TPH 8015M</b>		<b>mg/kg</b>		<b>Analyzed By: MS</b>					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/04/2018	ND	217	108	200	2.20	
DRO >C10-C28*	<10.0	10.0	12/04/2018	ND	229	115	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	12/04/2018	ND					

Surrogate: 1-Chlorooctane 88.0 % 41-142

Surrogate: 1-Chlorooctadecane 98.8 % 37.6-147

Fax To: (505) 394-2601

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Environmental Plus, Inc.

PAT MCCASLAND  
P.O. Box 1558  
Eunice NM, 88231

Received: 11/30/2018  
Reported: 12/06/2018  
Project Name: TREATMENT ZONE SAMPLING  
Project Number: 20181130TZ  
Project Location: EPI LANDFARM

Sampling Date: 11/30/2018  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Celey D. Keene

**XVI. SAMPLE ID: EPI20181130TZ - #6 (H803523-06)**

<b>BTEX 8021B</b>		<b>mg/kg</b>		<b>Analyzed By: MS</b>					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/03/2018	ND	2.31	116	2.00	0.208	
Toluene*	<0.050	0.050	12/03/2018	ND	2.28	114	2.00	0.204	
Ethylbenzene*	<0.050	0.050	12/03/2018	ND	2.22	111	2.00	0.276	
Total Xylenes*	<0.150	0.150	12/03/2018	ND	6.51	108	6.00	0.287	
Total BTEX	<0.300	0.300	12/03/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 73.3-129

<b>Chloride, SM4500Cl-B</b>		<b>mg/kg</b>		<b>Analyzed By: AC</b>					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>48.0</b>	16.0	12/03/2018	ND	416	104	400	0.00	

<b>TPH 8015M</b>		<b>mg/kg</b>		<b>Analyzed By: MS</b>					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/04/2018	ND	217	108	200	2.20	
DRO >C10-C28*	<10.0	10.0	12/04/2018	ND	229	115	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	12/04/2018	ND					

Surrogate: 1-Chlorooctane 92.2 % 41-142

Surrogate: 1-Chlorooctadecane 104 % 37.6-147

Fax To: (505) 394-2601

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Environmental Plus, Inc.

PAT MCCASLAND  
P.O. Box 1558  
Eunice NM, 88231

Received: 11/30/2018  
Reported: 12/06/2018  
Project Name: TREATMENT ZONE SAMPLING  
Project Number: 20181130TZ  
Project Location: EPI LANDFARM

Sampling Date: 11/30/2018  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Celey D. Keene

**XVII. SAMPLE ID: EPI20181130TZ - #7 (H803523-07)**

<b>BTEX 8021B</b>		<b>mg/kg</b>		<b>Analyzed By: MS</b>					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/03/2018	ND	2.31	116	2.00	0.208	
Toluene*	<0.050	0.050	12/03/2018	ND	2.28	114	2.00	0.204	
Ethylbenzene*	<0.050	0.050	12/03/2018	ND	2.22	111	2.00	0.276	
Total Xylenes*	<0.150	0.150	12/03/2018	ND	6.51	108	6.00	0.287	
Total BTEX	<0.300	0.300	12/03/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 73.3-129

<b>Chloride, SM4500Cl-B</b>		<b>mg/kg</b>		<b>Analyzed By: AC</b>					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	12/03/2018	ND	416	104	400	0.00	

<b>TPH 8015M</b>		<b>mg/kg</b>		<b>Analyzed By: MS</b>					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/04/2018	ND	217	108	200	2.20	
<b>DRO &gt;C10-C28*</b>	<b>403</b>	10.0	12/04/2018	ND	229	115	200	1.21	
<b>EXT DRO &gt;C28-C36</b>	<b>101</b>	10.0	12/04/2018	ND					

Surrogate: 1-Chlorooctane 79.7 % 41-142

Surrogate: 1-Chlorooctadecane 107 % 37.6-147

Fax To: (505) 394-2601

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

Environmental Plus, Inc.

PAT MCCASLAND  
P.O. Box 1558  
Eunice NM, 88231

Received: 11/30/2018  
Reported: 12/06/2018  
Project Name: TREATMENT ZONE SAMPLING  
Project Number: 20181130TZ  
Project Location: EPI LANDFARM

Sampling Date: 11/30/2018  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Celey D. Keene

**XVIII. SAMPLE ID: EPI20181130TZ - #8 (H803523-08)**

<b>BTEX 8021B</b>		<b>mg/kg</b>		<b>Analyzed By: MS</b>					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/03/2018	ND	2.31	116	2.00	0.208	
Toluene*	<0.050	0.050	12/03/2018	ND	2.28	114	2.00	0.204	
Ethylbenzene*	<0.050	0.050	12/03/2018	ND	2.22	111	2.00	0.276	
Total Xylenes*	<0.150	0.150	12/03/2018	ND	6.51	108	6.00	0.287	
Total BTEX	<0.300	0.300	12/03/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 73.3-129

<b>Chloride, SM4500Cl-B</b>		<b>mg/kg</b>		<b>Analyzed By: AC</b>					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	12/03/2018	ND	416	104	400	0.00	

<b>TPH 8015M</b>		<b>mg/kg</b>		<b>Analyzed By: MS</b>					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/04/2018	ND	217	108	200	2.20	
<b>DRO &gt;C10-C28*</b>	<b>18.1</b>	10.0	12/04/2018	ND	229	115	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	12/04/2018	ND					

Surrogate: 1-Chlorooctane 94.1 % 41-142

Surrogate: 1-Chlorooctadecane 106 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Environmental Plus, Inc.

PAT MCCASLAND  
P.O. Box 1558  
Eunice NM, 88231

Received: 11/30/2018  
Reported: 12/06/2018  
Project Name: TREATMENT ZONE SAMPLING  
Project Number: 20181130TZ  
Project Location: EPI LANDFARM

Sampling Date: 11/30/2018  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Celey D. Keene

**XIX. SAMPLE ID: EPI20181130TZ - #9 (H803523-09)**

<b>BTEX 8021B</b>		<b>mg/kg</b>		<b>Analyzed By: ms</b>					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/04/2018	ND	1.66	83.0	2.00	1.76	
Toluene*	<0.050	0.050	12/04/2018	ND	1.61	80.6	2.00	2.36	
Ethylbenzene*	<0.050	0.050	12/04/2018	ND	1.55	77.7	2.00	1.99	
Total Xylenes*	<0.150	0.150	12/04/2018	ND	5.01	83.5	6.00	2.27	
Total BTEX	<0.300	0.300	12/04/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

<b>Chloride, SM4500Cl-B</b>		<b>mg/kg</b>		<b>Analyzed By: AC</b>					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>48.0</b>	16.0	12/03/2018	ND	416	104	400	0.00	

<b>TPH 8015M</b>		<b>mg/kg</b>		<b>Analyzed By: MS</b>					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/04/2018	ND	217	108	200	2.20	
DRO >C10-C28*	<10.0	10.0	12/04/2018	ND	229	115	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	12/04/2018	ND					

Surrogate: 1-Chlorooctane 90.4 % 41-142

Surrogate: 1-Chlorooctadecane 102 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

Environmental Plus, Inc.

PAT MCCASLAND  
P.O. Box 1558  
Eunice NM, 88231

Received: 11/30/2018  
Reported: 12/06/2018  
Project Name: TREATMENT ZONE SAMPLING  
Project Number: 20181130TZ  
Project Location: EPI LANDFARM

Sampling Date: 11/30/2018  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Celey D. Keene

**XX. SAMPLE ID: EPI20181130TZ - #10 (H803523-10)**

<b>BTEX 8021B</b>		<b>mg/kg</b>		<b>Analyzed By: ms</b>					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/04/2018	ND	1.66	83.0	2.00	1.76	
Toluene*	<0.050	0.050	12/04/2018	ND	1.61	80.6	2.00	2.36	
Ethylbenzene*	<0.050	0.050	12/04/2018	ND	1.55	77.7	2.00	1.99	
Total Xylenes*	<0.150	0.150	12/04/2018	ND	5.01	83.5	6.00	2.27	
Total BTEX	<0.300	0.300	12/04/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.3-129

<b>Chloride, SM4500Cl-B</b>		<b>mg/kg</b>		<b>Analyzed By: AC</b>					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>48.0</b>	16.0	12/03/2018	ND	416	104	400	0.00	

<b>TPH 8015M</b>		<b>mg/kg</b>		<b>Analyzed By: MS</b>					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/04/2018	ND	217	108	200	2.20	
DRO >C10-C28*	<10.0	10.0	12/04/2018	ND	229	115	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	12/04/2018	ND					

Surrogate: 1-Chlorooctane 97.0 % 41-142

Surrogate: 1-Chlorooctadecane 110 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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## Analytical Results For:

Environmental Plus, Inc.

PAT MCCASLAND  
P.O. Box 1558  
Eunice NM, 88231

Received: 11/30/2018  
Reported: 12/06/2018  
Project Name: TREATMENT ZONE SAMPLING  
Project Number: 20181130TZ  
Project Location: EPI LANDFARM

Sampling Date: 11/30/2018  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Celey D. Keene

## XXI. SAMPLE ID: EPI20181130TZ - #11 (H803523-11)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/03/2018	ND	2.31	116	2.00	0.208	
Toluene*	<0.050	0.050	12/03/2018	ND	2.28	114	2.00	0.204	
Ethylbenzene*	<0.050	0.050	12/03/2018	ND	2.22	111	2.00	0.276	
Total Xylenes*	<0.150	0.150	12/03/2018	ND	6.51	108	6.00	0.287	
Total BTX	<0.300	0.300	12/03/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/03/2018	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/04/2018	ND	217	108	200	2.20	
DRO >C10-C28*	<10.0	10.0	12/04/2018	ND	229	115	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	12/04/2018	ND					

Surrogate: 1-Chlorooctane 90.5 % 41-142

Surrogate: 1-Chlorooctadecane 102 % 37.6-147

Fax To: (505) 394-2601

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

Environmental Plus, Inc.

PAT MCCASLAND  
P.O. Box 1558  
Eunice NM, 88231

Received: 11/30/2018  
Reported: 12/06/2018  
Project Name: TREATMENT ZONE SAMPLING  
Project Number: 20181130TZ  
Project Location: EPI LANDFARM

Sampling Date: 11/30/2018  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Celey D. Keene

**XXII. SAMPLE ID: EPI20181130TZ - #12 (H803523-12)**

<b>BTEX 8021B</b>		<b>mg/kg</b>		<b>Analyzed By: ms</b>					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/04/2018	ND	1.66	83.0	2.00	1.76	
Toluene*	<0.050	0.050	12/04/2018	ND	1.61	80.6	2.00	2.36	
Ethylbenzene*	<0.050	0.050	12/04/2018	ND	1.55	77.7	2.00	1.99	
Total Xylenes*	<0.150	0.150	12/04/2018	ND	5.01	83.5	6.00	2.27	
Total BTEX	<0.300	0.300	12/04/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

<b>Chloride, SM4500Cl-B</b>		<b>mg/kg</b>		<b>Analyzed By: AC</b>					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>48.0</b>	16.0	12/03/2018	ND	416	104	400	0.00	

<b>TPH 8015M</b>		<b>mg/kg</b>		<b>Analyzed By: MS</b>					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/04/2018	ND	217	108	200	2.20	
DRO >C10-C28*	<10.0	10.0	12/04/2018	ND	229	115	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	12/04/2018	ND					

Surrogate: 1-Chlorooctane 72.1 % 41-142

Surrogate: 1-Chlorooctadecane 79.2 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Environmental Plus, Inc.

PAT MCCASLAND  
P.O. Box 1558  
Eunice NM, 88231

Received: 11/30/2018  
Reported: 12/06/2018  
Project Name: TREATMENT ZONE SAMPLING  
Project Number: 20181130TZ  
Project Location: EPI LANDFARM

Sampling Date: 11/30/2018  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Celey D. Keene

**XXIII. SAMPLE ID: EPI20181130TZ - #13 (H803523-13)**

<b>BTEX 8021B</b>		<b>mg/kg</b>		<b>Analyzed By: ms</b>					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/04/2018	ND	1.66	83.0	2.00	1.76	
Toluene*	<0.050	0.050	12/04/2018	ND	1.61	80.6	2.00	2.36	
Ethylbenzene*	<0.050	0.050	12/04/2018	ND	1.55	77.7	2.00	1.99	
Total Xylenes*	<0.150	0.150	12/04/2018	ND	5.01	83.5	6.00	2.27	
Total BTEX	<0.300	0.300	12/04/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

<b>Chloride, SM4500Cl-B</b>		<b>mg/kg</b>		<b>Analyzed By: AC</b>					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>64.0</b>	16.0	12/03/2018	ND	416	104	400	0.00	

<b>TPH 8015M</b>		<b>mg/kg</b>		<b>Analyzed By: MS</b>					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/04/2018	ND	217	108	200	2.20	
DRO >C10-C28*	<10.0	10.0	12/04/2018	ND	229	115	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	12/04/2018	ND					

Surrogate: 1-Chlorooctane 88.8 % 41-142

Surrogate: 1-Chlorooctadecane 99.6 % 37.6-147

Fax To: (505) 394-2601

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

**Analytical Results For:**

Environmental Plus, Inc.

PAT MCCASLAND  
P.O. Box 1558  
Eunice NM, 88231

Received: 11/30/2018  
Reported: 12/06/2018  
Project Name: TREATMENT ZONE SAMPLING  
Project Number: 20181130TZ  
Project Location: EPI LANDFARM

Sampling Date: 11/30/2018  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Celey D. Keene

**XXIV. SAMPLE ID: EPI20181130TZ - #14 (H803523-14)**

<b>BTEX 8021B</b>		<b>mg/kg</b>		<b>Analyzed By: ms</b>					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/04/2018	ND	1.66	83.0	2.00	1.76	
Toluene*	<0.050	0.050	12/04/2018	ND	1.61	80.6	2.00	2.36	
Ethylbenzene*	<0.050	0.050	12/04/2018	ND	1.55	77.7	2.00	1.99	
Total Xylenes*	<0.150	0.150	12/04/2018	ND	5.01	83.5	6.00	2.27	
Total BTEX	<0.300	0.300	12/04/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.3-129

<b>Chloride, SM4500Cl-B</b>		<b>mg/kg</b>		<b>Analyzed By: AC</b>					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	12/03/2018	ND	416	104	400	0.00	

<b>TPH 8015M</b>		<b>mg/kg</b>		<b>Analyzed By: MS</b>					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/04/2018	ND	217	108	200	2.20	
DRO >C10-C28*	<10.0	10.0	12/04/2018	ND	229	115	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	12/04/2018	ND					

Surrogate: 1-Chlorooctane 81.7 % 41-142

Surrogate: 1-Chlorooctadecane 89.8 % 37.6-147

Fax To: (505) 394-2601

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

**Analytical Results For:**

Environmental Plus, Inc.

PAT MCCASLAND  
P.O. Box 1558  
Eunice NM, 88231

Received: 11/30/2018  
Reported: 12/06/2018  
Project Name: TREATMENT ZONE SAMPLING  
Project Number: 20181130TZ  
Project Location: EPI LANDFARM

Sampling Date: 11/30/2018  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Celey D. Keene

**XXV. SAMPLE ID: EPI20181130TZ - #15 (H803523-15)**

<b>BTEX 8021B</b>		<b>mg/kg</b>		<b>Analyzed By: ms</b>					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/04/2018	ND	1.66	83.0	2.00	1.76	
Toluene*	<0.050	0.050	12/04/2018	ND	1.61	80.6	2.00	2.36	
Ethylbenzene*	<0.050	0.050	12/04/2018	ND	1.55	77.7	2.00	1.99	
Total Xylenes*	<0.150	0.150	12/04/2018	ND	5.01	83.5	6.00	2.27	
Total BTEX	<0.300	0.300	12/04/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

<b>Chloride, SM4500Cl-B</b>		<b>mg/kg</b>		<b>Analyzed By: AC</b>					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>64.0</b>	16.0	12/03/2018	ND	416	104	400	0.00	

<b>TPH 8015M</b>		<b>mg/kg</b>		<b>Analyzed By: MS</b>					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/04/2018	ND	217	108	200	2.20	
DRO >C10-C28*	<10.0	10.0	12/04/2018	ND	229	115	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	12/04/2018	ND					

Surrogate: 1-Chlorooctane 93.9 % 41-142

Surrogate: 1-Chlorooctadecane 104 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



XXVI.

NOTES AND DEFINITIONS

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ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Analytical Report  
Lab Order 1903424

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/14/2019

Pag

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 1 of 19
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified



## Analytical Report

Lab Order 1903424

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/14/2019



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

P1 of 2

101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

Company Name: Environmental Plus, Inc.

Project Manager: FAR McCLASLAND

Address: PO Box 1558

City: Eunice

Phone #: 575.631.1667

Project #: 20181130TZ

Project Name: Incineration Zone Sampling

Project Location: SPI landfill

Sample Name: FAR McCLASLAND

## BILL TO

## ANALYSIS REQUEST

P.O. #:

Company:

Attn:

Address:

City:

State:

Zip:

Phone #:

Fax #:

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

(G)RAB OR (C)OMP.

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

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Analytical Report  
Lab Order 1903424

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/14/2019

e 18 of 19 Page 19 of 19

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 3 of 19
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified



Lab Order 1903424

Date Reported: 3/14/2019



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

[illegible]

7282

W Sample container temperature is out of limit as specified

---

Qua

**Analytical Report**Lab Order **1903424****Hall Environmental Analysis Laboratory, Inc.**

Date Reported: 3/14/2019



Hall Environmental Analysis Laboratory  
 4901 Hawkins NE  
 Albuquerque, NM 87109  
 TEL: 505-345-3975 FAX: 505-345-4107  
 Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

March 14, 2019

Pat McCasland

Environmental Plus, Inc

PO Box 1558

Eunice, NM 88231

TEL: (575) 631-1667

FAX

RE: EPI Landfarm

OrderNo.: 1903424

Dear Pat McCasland:

Hall Environmental Analysis Laboratory received 15 sample(s) on 3/8/2019 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901 Sincerely,

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified



## Analytical Report

Lab Order 1903424

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/14/2019



Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

CLIENT: Environmental Plus, Inc

Client Sample ID: 20190307EPIC1TZ

Project: EPI Landfarm

Collection Date: 3/7/2019 9:16:00 AM

Lab ID: 1903424-001

Matrix: SOIL

Received Date: 3/8/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: lrm
Diesel Range Organics (DRO)	18	9.5		mg/Kg	1	3/12/2019 3:04:10 PM
Motor Oil Range Organics (MRO)	140	48		mg/Kg	1	3/12/2019 3:04:10 PM
Surr: DNOP	98.0	70-130		%Rec	1	3/12/2019 3:04:10 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/12/2019 3:00:22 PM
Surr: BFB	95.5	73.8-119		%Rec	1	3/12/2019 3:00:22 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	3/12/2019 3:00:22 PM
Toluene	ND	0.047		mg/Kg	1	3/12/2019 3:00:22 PM
Ethylbenzene	ND	0.047		mg/Kg	1	3/12/2019 3:00:22 PM
Xylenes, Total	ND	0.094		mg/Kg	1	3/12/2019 3:00:22 PM
Surr: 4-Bromofluorobenzene	98.3	80-120		%Rec	1	3/12/2019 3:00:22 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: MRA
Chloride	ND	60		mg/Kg	20	3/12/2019 7:15:40 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

## Analytical Report

Lab Order 1903424

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/14/2019

CLIENT: Environmental Plus, Inc

Client Sample ID: 20190307EPIC2TZ

Project: EPI Landfarm

Collection Date: 3/7/2019 9:36:00 AM

Lab ID: 1903424-002

Matrix: SOIL

Received Date: 3/8/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: Irm
Diesel Range Organics (DRO)	820	96		mg/Kg	10	3/13/2019 12:10:19 PM
Motor Oil Range Organics (MRO)	1600	480		mg/Kg	10	3/13/2019 12:10:19 PM
Surr: DNOP	0	70-130	S	%Rec	10	3/13/2019 12:10:19 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/12/2019 4:10:56 PM
Surr: BFB	96.6	73.8-119		%Rec	1	3/12/2019 4:10:56 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	3/12/2019 4:10:56 PM
Toluene	ND	0.047		mg/Kg	1	3/12/2019 4:10:56 PM
Ethylbenzene	ND	0.047		mg/Kg	1	3/12/2019 4:10:56 PM
Xylenes, Total	ND	0.093		mg/Kg	1	3/12/2019 4:10:56 PM
Surr: 4-Bromofluorobenzene	99.9	80-120		%Rec	1	3/12/2019 4:10:56 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: MRA
Chloride	310	60		mg/Kg	20	3/12/2019 7:52:53 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

## Analytical Report

Lab Order 1903424

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/14/2019

CLIENT: Environmental Plus, Inc

Client Sample ID:20190307EPIC3TZ

Project: EPI Landfarm

Collection Date:3/7/2019 9:50:00 AM

Lab ID: 1903424-003

Matrix: SOIL

Received Date:3/8/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: Irm
Diesel Range Organics (DRO)	120	9.7		mg/Kg	1	3/12/2019 4:32:53 PM
Motor Oil Range Organics (MRO)	340	48		mg/Kg	1	3/12/2019 4:32:53 PM
Surr: DNOP	102	70-130		%Rec	1	3/12/2019 4:32:53 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/12/2019 6:55:16 PM
Surr: BFB	95.2	73.8-119		%Rec	1	3/12/2019 6:55:16 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/12/2019 6:55:16 PM
Toluene	ND	0.048		mg/Kg	1	3/12/2019 6:55:16 PM
Ethylbenzene	ND	0.048		mg/Kg	1	3/12/2019 6:55:16 PM
Xylenes, Total	ND	0.095		mg/Kg	1	3/12/2019 6:55:16 PM
Surr: 4-Bromofluorobenzene	99.3	80-120		%Rec	1	3/12/2019 6:55:16 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: MRA
Chloride	ND	60		mg/Kg	20	3/12/2019 8:30:07 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 8 of 19
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified



## Analytical Report

Lab Order 1903424

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/14/2019

CLIENT: Environmental Plus, Inc

Client Sample ID:20190307EPIC4TZ

Project: EPI Landfarm

Collection Date:3/7/2019 10:00:00 AM

Lab ID: 1903424-004

Matrix: SOIL

Received Date:3/8/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: Irm
Diesel Range Organics (DRO)	65	9.6		mg/Kg	1	3/12/2019 5:17:18 PM
Motor Oil Range Organics (MRO)	280	48		mg/Kg	1	3/12/2019 5:17:18 PM
Surr: DNOP	93.9	70-130		%Rec	1	3/12/2019 5:17:18 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/12/2019 7:18:49 PM
Surr: BFB	96.2	73.8-119		%Rec	1	3/12/2019 7:18:49 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/12/2019 7:18:49 PM
Toluene	ND	0.049		mg/Kg	1	3/12/2019 7:18:49 PM
Ethylbenzene	ND	0.049		mg/Kg	1	3/12/2019 7:18:49 PM
Xylenes, Total	ND	0.098		mg/Kg	1	3/12/2019 7:18:49 PM
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	3/12/2019 7:18:49 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: MRA
Chloride	ND	60		mg/Kg	20	3/12/2019 8:42:32 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 9 of 19
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

## Analytical Report

Lab Order 1903424

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/14/2019

CLIENT: Environmental Plus, Inc

Client Sample ID:20190307EPIC5TZ

Project: EPI Landfarm

Collection Date:3/7/2019 10:10:00 AM

Lab ID: 1903424-005

Matrix: SOIL

Received Date:3/8/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: Irm
Diesel Range Organics (DRO)	62	9.7		mg/Kg	1	3/12/2019 6:01:32 PM
Motor Oil Range Organics (MRO)	260	49		mg/Kg	1	3/12/2019 6:01:32 PM
Surr: DNOP	96.1	70-130		%Rec	1	3/12/2019 6:01:32 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/12/2019 7:42:27 PM
Surr: BFB	91.1	73.8-119		%Rec	1	3/12/2019 7:42:27 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/12/2019 7:42:27 PM
Toluene	ND	0.048		mg/Kg	1	3/12/2019 7:42:27 PM
Ethylbenzene	ND	0.048		mg/Kg	1	3/12/2019 7:42:27 PM
Xylenes, Total	ND	0.097		mg/Kg	1	3/12/2019 7:42:27 PM
Surr: 4-Bromofluorobenzene	94.3	80-120		%Rec	1	3/12/2019 7:42:27 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: MRA
Chloride	ND	60		mg/Kg	20	3/12/2019 8:54:56 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

## Analytical Report

Lab Order 1903424

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/14/2019

CLIENT: Environmental Plus, Inc

Client Sample ID:20190307EPIC6TZ

Project: EPI Landfarm

Collection Date:3/7/2019 10:20:00 AM

Lab ID: 1903424-006

Matrix: SOIL

Received Date:3/8/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: Irm
Diesel Range Organics (DRO)	18	10		mg/Kg	1	3/12/2019 7:07:37 PM
Motor Oil Range Organics (MRO)	120	50		mg/Kg	1	3/12/2019 7:07:37 PM
Surr: DNOP	90.4	70-130		%Rec	1	3/12/2019 7:07:37 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/12/2019 8:05:55 PM
Surr: BFB	94.0	73.8-119		%Rec	1	3/12/2019 8:05:55 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/12/2019 8:05:55 PM
Toluene	ND	0.047		mg/Kg	1	3/12/2019 8:05:55 PM
Ethylbenzene	ND	0.047		mg/Kg	1	3/12/2019 8:05:55 PM
Xylenes, Total	ND	0.095		mg/Kg	1	3/12/2019 8:05:55 PM
Surr: 4-Bromofluorobenzene	97.9	80-120		%Rec	1	3/12/2019 8:05:55 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: MRA
Chloride	ND	60		mg/Kg	20	3/12/2019 9:07:20 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 11 of 19
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified



## Analytical Report

Lab Order 1903424

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/14/2019

CLIENT: Environmental Plus, Inc

Client Sample ID:20190307EPIC7TZ

Project: EPI Landfarm

Collection Date:3/7/2019 10:40:00 AM

Lab ID: 1903424-007

Matrix: SOIL

Received Date:3/8/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: Irm
Diesel Range Organics (DRO)	170	9.5		mg/Kg	1	3/12/2019 7:51:25 PM
Motor Oil Range Organics (MRO)	300	48		mg/Kg	1	3/12/2019 7:51:25 PM
Surr: DNOP	106	70-130		%Rec	1	3/12/2019 7:51:25 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/12/2019 8:29:31 PM
Surr: BFB	95.1	73.8-119		%Rec	1	3/12/2019 8:29:31 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/12/2019 8:29:31 PM
Toluene	ND	0.049		mg/Kg	1	3/12/2019 8:29:31 PM
Ethylbenzene	ND	0.049		mg/Kg	1	3/12/2019 8:29:31 PM
Xylenes, Total	ND	0.097		mg/Kg	1	3/12/2019 8:29:31 PM
Surr: 4-Bromofluorobenzene	98.6	80-120		%Rec	1	3/12/2019 8:29:31 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: MRA
Chloride	ND	60		mg/Kg	20	3/12/2019 9:19:45 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 12 of 19
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

## Analytical Report

Lab Order 1903424

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/14/2019

CLIENT: Environmental Plus, Inc

Client Sample ID:20190307EPIC8TZ

Project: EPI Landfarm

Collection Date:3/7/2019 10:45:00 AM

Lab ID: 1903424-008

Matrix: SOIL

Received Date:3/8/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: Irm
Diesel Range Organics (DRO)	24	9.4		mg/Kg	1	3/12/2019 8:35:07 PM
Motor Oil Range Organics (MRO)	170	47		mg/Kg	1	3/12/2019 8:35:07 PM
Surr: DNOP	92.2	70-130		%Rec	1	3/12/2019 8:35:07 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/12/2019 8:52:50 PM
Surr: BFB	96.2	73.8-119		%Rec	1	3/12/2019 8:52:50 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	3/12/2019 8:52:50 PM
Toluene	ND	0.047		mg/Kg	1	3/12/2019 8:52:50 PM
Ethylbenzene	ND	0.047		mg/Kg	1	3/12/2019 8:52:50 PM
Xylenes, Total	ND	0.094		mg/Kg	1	3/12/2019 8:52:50 PM
Surr: 4-Bromofluorobenzene	99.4	80-120		%Rec	1	3/12/2019 8:52:50 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: MRA
Chloride	ND	60		mg/Kg	20	3/12/2019 9:32:10 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

## Analytical Report

Lab Order 1903424

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/14/2019

CLIENT: Environmental Plus, Inc

Client Sample ID:20190307EPIC9TZ

Project: EPI Landfarm

Collection Date:3/7/2019 10:50:00 AM

Lab ID: 1903424-009

Matrix: SOIL

Received Date:3/8/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: Irm
Diesel Range Organics (DRO)	38	9.6		mg/Kg	1	3/12/2019 9:18:46 PM
Motor Oil Range Organics (MRO)	220	48		mg/Kg	1	3/12/2019 9:18:46 PM
Surr: DNOP	85.5	70-130		%Rec	1	3/12/2019 9:18:46 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/12/2019 9:16:20 PM
Surr: BFB	93.7	73.8-119		%Rec	1	3/12/2019 9:16:20 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/12/2019 9:16:20 PM
Toluene	ND	0.049		mg/Kg	1	3/12/2019 9:16:20 PM
Ethylbenzene	ND	0.049		mg/Kg	1	3/12/2019 9:16:20 PM
Xylenes, Total	ND	0.098		mg/Kg	1	3/12/2019 9:16:20 PM
Surr: 4-Bromofluorobenzene	97.3	80-120		%Rec	1	3/12/2019 9:16:20 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: MRA
Chloride	ND	60		mg/Kg	20	3/12/2019 9:44:35 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified



## Analytical Report

Lab Order 1903424

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/14/2019

CLIENT: Environmental Plus, Inc

Client Sample ID:20190307EPIC10TZ

Project: EPI Landfarm

Collection Date:3/7/2019 11:00:00 AM

Lab ID: 1903424-010

Matrix: SOIL

Received Date:3/8/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: Irm
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	3/12/2019 10:02:38 PM
Motor Oil Range Organics (MRO)	57	48		mg/Kg	1	3/12/2019 10:02:38 PM
Surr: DNOP	88.3	70-130		%Rec	1	3/12/2019 10:02:38 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/12/2019 9:39:42 PM
Surr: BFB	94.7	73.8-119		%Rec	1	3/12/2019 9:39:42 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/12/2019 9:39:42 PM
Toluene	ND	0.048		mg/Kg	1	3/12/2019 9:39:42 PM
Ethylbenzene	ND	0.048		mg/Kg	1	3/12/2019 9:39:42 PM
Xylenes, Total	ND	0.096		mg/Kg	1	3/12/2019 9:39:42 PM
Surr: 4-Bromofluorobenzene	98.5	80-120		%Rec	1	3/12/2019 9:39:42 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: MRA
Chloride	ND	60		mg/Kg	20	3/12/2019 9:56:59 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

## Analytical Report

Lab Order 1903424

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/14/2019

CLIENT: Environmental Plus, Inc

Client Sample ID:20190307EPIC11TZ

Project: EPI Landfarm

Collection Date:3/7/2019 11:15:00 AM

Lab ID: 1903424-011

Matrix: SOIL

Received Date:3/8/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: Irm
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	3/12/2019 10:46:29 PM
Motor Oil Range Organics (MRO)	58	48		mg/Kg	1	3/12/2019 10:46:29 PM
Surr: DNOP	81.3	70-130		%Rec	1	3/12/2019 10:46:29 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/12/2019 10:03:14 PM
Surr: BFB	96.3	73.8-119		%Rec	1	3/12/2019 10:03:14 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/12/2019 10:03:14 PM
Toluene	ND	0.050		mg/Kg	1	3/12/2019 10:03:14 PM
Ethylbenzene	ND	0.050		mg/Kg	1	3/12/2019 10:03:14 PM
Xylenes, Total	ND	0.10		mg/Kg	1	3/12/2019 10:03:14 PM
Surr: 4-Bromofluorobenzene	99.8	80-120		%Rec	1	3/12/2019 10:03:14 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: MRA
Chloride	ND	60		mg/Kg	20	3/12/2019 10:09:24 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

## Analytical Report

Lab Order 1903424

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/14/2019

CLIENT: Environmental Plus, Inc

Client Sample ID:20190307EPIC12TZ

Project: EPI Landfarm

Collection Date:3/7/2019 11:20:00 AM

Lab ID: 1903424-012

Matrix: SOIL

Received Date:3/8/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>Irm</b>
Diesel Range Organics (DRO)	150	9.7		mg/Kg	1	3/12/2019 11:30:19 PM
Motor Oil Range Organics (MRO)	390	48		mg/Kg	1	3/12/2019 11:30:19 PM
Surr: DNOP	97.4	70-130		%Rec	1	3/12/2019 11:30:19 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/12/2019 10:26:46 PM
Surr: BFB	93.6	73.8-119		%Rec	1	3/12/2019 10:26:46 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	3/12/2019 10:26:46 PM
Toluene	ND	0.049		mg/Kg	1	3/12/2019 10:26:46 PM
Ethylbenzene	ND	0.049		mg/Kg	1	3/12/2019 10:26:46 PM
Xylenes, Total	ND	0.098		mg/Kg	1	3/12/2019 10:26:46 PM
Surr: 4-Bromofluorobenzene	96.5	80-120		%Rec	1	3/12/2019 10:26:46 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>MRA</b>
Chloride	ND	60		mg/Kg	20	3/12/2019 10:21:48 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified



## Analytical Report

Lab Order 1903424

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/14/2019

CLIENT: Environmental Plus, Inc

Client Sample ID:20190307EPIC13TZ

Project: EPI Landfarm

Collection Date:3/7/2019 11:25:00 AM

Lab ID: 1903424-013

Matrix: SOIL

Received Date:3/8/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: Irm
Diesel Range Organics (DRO)	76	9.9		mg/Kg	1	3/13/2019 12:14:15 AM
Motor Oil Range Organics (MRO)	270	49		mg/Kg	1	3/13/2019 12:14:15 AM
Surr: DNOP	110	70-130		%Rec	1	3/13/2019 12:14:15 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/13/2019 12:00:41 AM
Surr: BFB	94.8	73.8-119		%Rec	1	3/13/2019 12:00:41 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: NSB
Benzene	0.031	0.024		mg/Kg	1	3/13/2019 12:00:41 AM
Toluene	ND	0.049		mg/Kg	1	3/13/2019 12:00:41 AM
Ethylbenzene	ND	0.049		mg/Kg	1	3/13/2019 12:00:41 AM
Xylenes, Total	ND	0.098		mg/Kg	1	3/13/2019 12:00:41 AM
Surr: 4-Bromofluorobenzene	97.7	80-120		%Rec	1	3/13/2019 12:00:41 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: MRA
Chloride	ND	60		mg/Kg	20	3/12/2019 10:59:02 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

## Analytical Report

Lab Order 1903424

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/14/2019

CLIENT: Environmental Plus, Inc

Client Sample ID:20190307EPIC14TZ

Project: EPI Landfarm

Collection Date:3/7/2019 11:30:00 AM

Lab ID: 1903424-014

Matrix: SOIL

Received Date:3/8/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: Irm
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	3/13/2019 12:58:01 AM
Motor Oil Range Organics (MRO)	70	50		mg/Kg	1	3/13/2019 12:58:01 AM
Surr: DNOP	94.9	70-130		%Rec	1	3/13/2019 12:58:01 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/13/2019 12:23:59 AM
Surr: BFB	94.4	73.8-119		%Rec	1	3/13/2019 12:23:59 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/13/2019 12:23:59 AM
Toluene	ND	0.048		mg/Kg	1	3/13/2019 12:23:59 AM
Ethylbenzene	ND	0.048		mg/Kg	1	3/13/2019 12:23:59 AM
Xylenes, Total	ND	0.095		mg/Kg	1	3/13/2019 12:23:59 AM
Surr: 4-Bromofluorobenzene	98.3	80-120		%Rec	1	3/13/2019 12:23:59 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: MRA
Chloride	ND	60		mg/Kg	20	3/12/2019 11:11:26 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

## Analytical Report

Lab Order 1903424

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/14/2019

CLIENT: Environmental Plus, Inc

Client Sample ID:20190307EPIC15TZ

Project: EPI Landfarm

Collection Date:3/7/2019 11:35:00 AM

Lab ID: 1903424-015

Matrix: SOIL

Received Date:3/8/2019 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: Irm
Diesel Range Organics (DRO)	16	9.6		mg/Kg	1	3/13/2019 1:41:45 AM
Motor Oil Range Organics (MRO)	100	48		mg/Kg	1	3/13/2019 1:41:45 AM
Surr: DNOP	87.3	70-130		%Rec	1	3/13/2019 1:41:45 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/13/2019 12:47:28 AM
Surr: BFB	96.5	73.8-119		%Rec	1	3/13/2019 12:47:28 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: NSB
Benzene	0.025	0.025		mg/Kg	1	3/13/2019 12:47:28 AM
Toluene	ND	0.049		mg/Kg	1	3/13/2019 12:47:28 AM
Ethylbenzene	ND	0.049		mg/Kg	1	3/13/2019 12:47:28 AM
Xylenes, Total	ND	0.098		mg/Kg	1	3/13/2019 12:47:28 AM
Surr: 4-Bromofluorobenzene	100	80-120		%Rec	1	3/13/2019 12:47:28 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: MRA
Chloride	ND	60		mg/Kg	20	3/12/2019 11:23:50 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified



**QC SUMMARY REPORT**

WO#: 1903424

**Hall Environmental Analysis Laboratory, Inc.**

14-Mar-19

**Client:** Environmental Plus, Inc**Project:** EPI Landfarm

Sample ID: <b>MB-43634</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>43634</b>	RunNo: <b>58294</b>								
Prep Date: <b>3/12/2019</b>	Analysis Date: <b>3/12/2019</b>	SeqNo: <b>1956171</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-43634</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>43634</b>	RunNo: <b>58294</b>								
Prep Date: <b>3/12/2019</b>	Analysis Date: <b>3/12/2019</b>	SeqNo: <b>1956172</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.9	90	110			

**Qualifiers:**

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range
H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits	Page 21 of 19 ND Not Detected
at the Reporting Limit P Sample pH Not In Range	
PQL Practical Quantitative Limit	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

**QC SUMMARY REPORT**

WO#: 1903424

**Hall Environmental Analysis Laboratory, Inc.**

14-Mar-19

**Client:** Environmental Plus, Inc**Project:** EPI Landfarm

Sample ID: <b>LCS-43617</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>43617</b>	RunNo: <b>58283</b>								
Prep Date: <b>3/11/2019</b>	Analysis Date: <b>3/12/2019</b>	SeqNo: <b>1955417</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	10	50.00	0	102	63.9	124			
Surr: DNOP	5.2		5.000		103	70	130			

Sample ID: <b>MB-43617</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>43617</b>	RunNo: <b>58283</b>								
Prep Date: <b>3/11/2019</b>	Analysis Date: <b>3/12/2019</b>	SeqNo: <b>1955418</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		109	70	130			

**Qualifiers:**

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range
H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits	Page 22 of 19 ND Not Detected
at the Reporting Limit P Sample pH Not In Range	
PQL Practical Quantitative Limit	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

**QC SUMMARY REPORT**

WO#: 1903424

**Hall Environmental Analysis Laboratory, Inc.**

14-Mar-19

**Client:** Environmental Plus, Inc**Project:** EPI Landfarm

Sample ID: <b>MB-43586</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>43586</b>	RunNo: <b>58288</b>								
Prep Date: <b>3/8/2019</b>	Analysis Date: <b>3/12/2019</b>	SeqNo: <b>1955663</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sample ID: <b>MB-43586</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>43586</b>	RunNo: <b>58288</b>								
Prep Date: <b>3/8/2019</b>	Analysis Date: <b>3/12/2019</b>	SeqNo: <b>1955699</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	950		1000		95.5	73.8	119			

Sample ID: <b>LCS-43586</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>43586</b>	RunNo: <b>58288</b>								
Prep Date: <b>3/8/2019</b>	Analysis Date: <b>3/12/2019</b>	SeqNo: <b>1955664</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	103	80.1	123			
Surr: BFB	1100		1000		107	73.8	119			

Sample ID: <b>1903424-001AMS</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>20190307EPIC1TZ</b>	Batch ID: <b>43586</b>	RunNo: <b>58288</b>								
Prep Date: <b>3/8/2019</b>	Analysis Date: <b>3/12/2019</b>	SeqNo: <b>1955666</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.8	24.20	0	98.4	69.1	142			
Surr: BFB	1000		968.1		106	73.8	119			

Sample ID: <b>1903424-001AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>20190307EPIC1TZ</b>	Batch ID: <b>43586</b>	RunNo: <b>58288</b>								
Prep Date: <b>3/8/2019</b>	Analysis Date: <b>3/12/2019</b>	SeqNo: <b>1955667</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	4.8	23.92	0	110	69.1	142	10.2	20	
Surr: BFB	1100		956.9		110	73.8	119	0	0	

**Qualifiers:**

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
at the Reporting Limit	P Sample pH Not In Range
PQL Practical Quantitative Limit	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified



QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1903424

14-Mar-19

Client:

Environmental Plus, Inc

Project:

EPI Landfarm

Sample ID: 1903424-002AMSD		SampType: MSD		TestCode: EPA Method 8021B: Volatiles						
Client ID: 20190307EPIC2TZ		Batch ID: 43586		RunNo: 58288						
Prep Date: 3/8/2019		Analysis Date: 3/12/2019		SeqNo: 1955704		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref/al	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.024	0.9728	0.01119	87.4	63.9	127	3.66	20	
Toluene	0.91	0.049	0.9728	0.01045	92.9	69.9	131	0.0575	20	
Ethylbenzene	0.92	0.049	0.9728	0	94.9	71	132	0.578	20	
Xylenes, Total	2.8	0.097	2.918	0	95.2	71.8	131	0.622	20	

Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

Page 24 of 19 ND Not Detected

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

**QC SUMMARY REPORT**

WO#: 1903424

**Hall Environmental Analysis Laboratory, Inc.**

14-Mar-19

**Client:** Environmental Plus, Inc**Project:** EPI Landfarm

Surr: 4-Bromofluorobenzene	0.95	0.9728	97.3	80	120	0	0
----------------------------	------	--------	------	----	-----	---	---

Benzene ND 0.025

Toluene ND 0.050

Ethylbenzene ND 0.050

Xylenes, Total ND 0.10

Surr: 4-Bromofluorobenzene	1.0	1.000	100	80	120
----------------------------	-----	-------	-----	----	-----

Sample ID: <b>LCS-43586</b>		SampType: <b>LCS</b>		TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>LCSS</b>		Batch ID: <b>43586</b>		RunNo: <b>58288</b>						
Prep Date: <b>3/8/2019</b>		Analysis Date: <b>3/12/2019</b>		SeqNo: <b>1955700</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	94.9	80	120			
Toluene	1.0	0.050	1.000	0	100	80	120			
Ethylbenzene	1.0	0.050	1.000	0	102	80	120			
Xylenes, Total	3.1	0.10	3.000	0	104	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		102	80	120			

Sample ID: <b>1903424-002AMS</b>		SampType: <b>MS</b>		TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>20190307EPIC2TZ</b>		Batch ID: <b>43586</b>		RunNo: <b>58288</b>						
Prep Date: <b>3/8/2019</b>		Analysis Date: <b>3/12/2019</b>		SeqNo: <b>1955703</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.83	0.023	0.9381	0.01119	87.3	63.9	127			
Toluene	0.91	0.047	0.9381	0.01045	96.4	69.9	131			
Ethylbenzene	0.93	0.047	0.9381	0	99.0	71	132			

**Qualifiers:**

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range
H Holding times for preparation or analysis exceeded at the Reporting Limit	J Analyte detected below quantitation limits Page 25 of 19 ND Not Detected
P Sample pH Not In Range	
PQL Practical Quantitative Limit	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1903424

14-Mar-19

Client:	Environmental Plus, Inc						
Project:	EPI Landfarm						
Xylenes, Total	2.8	0.094	2.814	0	99.3	71.8	131
Surr: 4-Bromofluorobenzene	0.95		0.9381		102	80	120

Qualifiers:			
*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified





*Hall Environmental Analysts Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)*

### Sample Log-In Check List

Client Name: ENVIRONMENTAL PLUS

Work Order Number: 1903424

RcptNo: 1

Received By: Isaiah Ortiz 3/8/2019 8:45:00 AM

Completed By: Victoria Zellar 3/8/2019 11:04:01 AM

Reviewed By: *TLN* 3.8.19

I-Ox  
Victoria Zellan labeled by 3/8/19

### Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

**Log In**

- |  |   |  |  |
|--|---|--|--|
| 3. Was an attempt made to cool the samples?  | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>            | NA <input type="checkbox"/>                      |
| 4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to $6.0^{\circ}\text{C}$ | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>            | NA <input type="checkbox"/>                      |
| 5. Sample(s) in proper container(s)?   | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>            |  |
| 6. Sufficient sample volume for indicated test(s)?   | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>            |  |
| 7. Are samples (except VOA and ONG) properly preserved?  | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>            |  |
| 8. Was preservative added to bottles?  | Yes <input type="checkbox"/>            | No <input checked="" type="checkbox"/> | NA <input type="checkbox"/>                      |
| 9. VOA vials have zero headspace?  | Yes <input type="checkbox"/>            | No <input type="checkbox"/>            | No VOA Vials <input checked="" type="checkbox"/> |
| 10. Were any sample containers received broken?  | Yes <input type="checkbox"/>            | No <input checked="" type="checkbox"/> |  |
| 11. Does paperwork match bottle labels?<br>(Note discrepancies on chain of custody)            | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>            |  |
| 12. Are matrices correctly identified on Chain of Custody?                                     | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>            |  |
| 13. Is it clear what analyses were requested?  | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>            |  |
| 14. Were all holding times able to be met?<br>(If no, notify customer for authorization.)      | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>            |  |
- # of preserved bottles checked for pH:

Adjusted?

Checked by:

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: \_\_\_\_\_ Date: \_\_\_\_\_  
By Whom: \_\_\_\_\_ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person  
Regarding: \_\_\_\_\_  
Client Instructions: \_\_\_\_\_

16. Additional remarks:

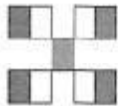
## 17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.3	Good	Yes			

**Analytical Report**  
Lab Order **1912719**

**Hall Environmental Analysis Laboratory, Inc.**

Date Reported: 1/28/2020



**HALL ENVIRONMENTAL  
ANALYSIS LABORATORY**

[www.hallenvironmental.com](http://www.hallenvironmental.com)

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

## Analysis Request

[illegible]

Remarks:

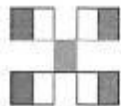
Chain-of-Custody Record		Turn-Around Time:	
To: Environmental Test Plus, Inc.		<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush	
Attn: SHERRY MILLER		Project Name:	
Address: PO Box 1558		EPI LANDFARM	
City/State/Zip: E. WIRE, NM 88231		Project #:	
Phone/Fax: 575.631.1667		Project Manager:	
CFR# 1575.631.1667		PAT McCASLAND	
CFR# 1575.631.1667		Sampler:	
CFR# 1575.631.1667		On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
CFR# 1575.631.1667		# of Coolers: 1	
CFR# 1575.631.1667		Cooler Temp (including CF): 13°C	
CFR# 1575.631.1667		Container Type and #	
CFR# 1575.631.1667		Preservative Type	
CFR# 1575.631.1667		HEAL No.	
CFR# 1575.631.1667		4021 ICE	
CFR# 1575.631.1667		-001	
CFR# 1575.631.1667		-002	
CFR# 1575.631.1667		-003	
CFR# 1575.631.1667		-004	
CFR# 1575.631.1667		-005	
CFR# 1575.631.1667		-006	
CFR# 1575.631.1667		-007	
CFR# 1575.631.1667		-008	
CFR# 1575.631.1667		-009	
CFR# 1575.631.1667		-010	
CFR# 1575.631.1667		-011	
CFR# 1575.631.1667		-012	
Received by:		Date	
3/7/19		3/7/19 1530	
Via:		Date	
T-O-conn 3/8/19 0845		Date	

necessary samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



**Analytical Report**  
Lab Order 1912719

**Hall Environmental Analysis Laboratory, Inc.**

Date Reported: **1/28/2020**

**HALL ENVIRONMENTAL  
ANALYSIS LABORATORY**

[www.hallenvironmental.com](http://www.hallenvironmental.com)

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

## Analysis Request

[illegible]

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



## Analytical Report

Lab Order 1912719

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/28/2020

3/3/2019

Land farm closure - taborskip505@gmail.com - Gmail

Gmail

Search mail

Compose

Inbox

Starred

Snoozed

Important

Sent

Drafts

Categories

2015 vacation

2016 lease

2017 lease

2018 lease

2018 tax

allstate

skip

4 background. (16 point composite samples from the 6" below ground surface from

19 jars

19.15.36 NMAC Parameter	EPA Method
TPH	EPA method 418.1 or 8015M Extended
Chloride (Cl)	EPA method 800.1- 4500
BTEX	EPA method 8021B or 8260B
Benzene	8021B \$60 / 8260B \$80
GRO and DRO	EPA method 8015M
Arsenic (As)	EPA method 6010B or 6020
Barium (Ba)	EPA method 6010B or 6020
Cadmium (Cd)	EPA method 6010B or 6020
Chromium (Cr)	EPA method 6010B or 6020
Lead (Pb)	EPA method 6010B or 6020
Total Mercury (Hg)	EPA method 6010B or 6020
Selenium (Se)	EPA method 6010B or 6020
Silver (Ag)	EPA method 6010B or 6020
Copper (Cu)	EPA method 6010B or 6020
Iron (Fe)	EPA method 6010B or 6020
Manganese (Mn)	EPA method 6010B or 6020
Zinc (Zn)	EPA method 6010B or 6020

Pat

Sent from Mail for Windows 10

No Hangouts contacts

[Find someone](#)

From: Skip Tabor &lt;taborskip505@gmail.com&gt;

Sent: Monday, February 25, 2019 11:41:01 AM

Message clipped | View entire message

**Analytical Report**Lab Order **1912719****Hall Environmental Analysis Laboratory, Inc.**

January 28, 2020

Pat McCasland

Environmental Plus, Inc

PO Box 1558

Eunice, NM 88231

TEL: (575) 631-1667

FAX

Date Reported: 1/28/2020

Hall Environmental Analysis Laboratory

4901 Hawkins NE

Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

RE: EPI Treatment Zone Monitoring

OrderNo.: 1912719

Dear Pat McCasland:

Hall Environmental Analysis Laboratory received 15 sample(s) on 12/13/2019 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued January 02, 2020.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Limit	
	S	% Recovery outside of range due to dilution or matrix			

## Analytical Report

Lab Order 1912719

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/28/2020

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

CLIENT: Environmental Plus, Inc

Client Sample ID:20191212C1TZM

Project: EPI Treatment Zone Monitoring

Collection Date:12/12/2019 10:29:00 AM

Lab ID: 1912719-001

Received Date:12/13/2019 9:05:00 AM

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CJS</b>
Chloride	ND	60	mg/Kg	20	12/16/2019 6:37:15 PM	49349	
<b>EPA METHOD 7471: MERCURY</b>							Analyst: <b>pmf</b>
Mercury	ND	0.033	mg/Kg	1	1/8/2020 10:13:45 AM	49680	
<b>EPA METHOD 6010B: SOIL METALS</b>							Analyst: <b>rde</b>
Antimony	ND	4.9	mg/Kg	2	1/10/2020 11:51:12 AM	49677	
Arsenic	ND	4.9	mg/Kg	2	1/9/2020 2:24:09 PM	49677	
Barium	40	0.20	mg/Kg	2	1/10/2020 11:51:12 AM	49677	
Beryllium	ND	0.30	mg/Kg	2	1/10/2020 11:51:12 AM	49677	
Cadmium	ND	0.20	mg/Kg	2	1/10/2020 11:51:12 AM	49677	
Chromium	5.1	0.59	mg/Kg	2	1/10/2020 11:51:12 AM	49677	
Copper	2.1	0.60	mg/Kg	2	1/15/2020 4:58:53 PM	49792	
Iron	4100	250	mg/Kg	100	1/10/2020 12:03:00 PM	49677	
Lead	1.6	0.49	mg/Kg	2	1/9/2020 4:59:44 PM	49677	
Manganese	51	0.20	mg/Kg	2	1/10/2020 11:51:12 AM	49677	
Selenium	ND	4.9	mg/Kg	2	1/9/2020 2:24:09 PM	49677	
Silver	ND	0.49	mg/Kg	2	1/10/2020 11:51:12 AM	49677	
Zinc	13	4.9	mg/Kg	2	1/10/2020 11:51:12 AM	49677	
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	26	9.8	mg/Kg	1	12/18/2019 3:35:17 PM	49356	
Motor Oil Range Organics (MRO)	140	49	mg/Kg	1	12/18/2019 3:35:17 PM	49356	
Surr: DNOP	123	70-130	%Rec	1	12/18/2019 3:35:17 PM	49356	
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	12/16/2019 9:37:20 PM	49336	
Surr: BFB	78.8	66.6-105	%Rec	1	12/16/2019 9:37:20 PM	49336	
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024	mg/Kg	1	12/16/2019 9:37:20 PM	49336	
Toluene	ND	0.047	mg/Kg	1	12/16/2019 9:37:20 PM	49336	
Ethylbenzene	ND	0.047	mg/Kg	1	12/16/2019 9:37:20 PM	49336	

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Limit	
	S	% Recovery outside of range due to dilution or matrix			

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## Analytical Report

Lab Order 1912719

**Hall Environmental Analysis Laboratory, Inc.**

Date Reported: 1/28/2020

Xylenes, Total	ND	0.094	mg/Kg	1	12/16/2019 9:37:20 PM	49336
Surr: 4-Bromofluorobenzene	98.4	80-120	%Rec	1	12/16/2019 9:37:20 PM	49336

CLIENT: Environmental Plus, Inc

Client Sample ID: 20191212C2T2M

Project: EPI Treatment Zone Monitoring

Collection Date: 12/12/2019 11:00:00 AM

Lab ID: 1912719-002

Received Date: 12/13/2019 9:05:00 AM

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CJS</b>
Chloride	130	60		mg/Kg	20	12/16/2019 6:49:36 PM	49349
<b>EPA METHOD 7471: MERCURY</b>							Analyst: <b>pmf</b>
Mercury	ND	0.033		mg/Kg	1	1/8/2020 10:19:45 AM	49680
<b>EPA METHOD 6010B: SOIL METALS</b>							Analyst: <b>rde</b>
Antimony	ND	4.8		mg/Kg	2	1/10/2020 12:04:51 PM	49677
Arsenic	ND	4.8		mg/Kg	2	1/9/2020 2:33:10 PM	49677
Barium	230	0.19		mg/Kg	2	1/10/2020 12:04:51 PM	49677
Beryllium	ND	0.29		mg/Kg	2	1/10/2020 12:04:51 PM	49677
Cadmium	ND	0.19		mg/Kg	2	1/10/2020 12:04:51 PM	49677
Chromium	4.2	0.58		mg/Kg	2	1/10/2020 12:04:51 PM	49677
Copper	2.7	0.59		mg/Kg	2	1/15/2020 5:03:40 PM	49792
Iron	4000	240		mg/Kg	100	1/10/2020 12:06:41 PM	49677
Lead	4.3	0.48		mg/Kg	2	1/9/2020 5:04:37 PM	49677
Manganese	35	0.19		mg/Kg	2	1/10/2020 12:04:51 PM	49677
Selenium	ND	4.8		mg/Kg	2	1/9/2020 2:33:10 PM	49677
Silver	0.67	0.48		mg/Kg	2	1/10/2020 12:04:51 PM	49677
Zinc	11	4.8		mg/Kg	2	1/10/2020 12:04:51 PM	49677
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	290	94		mg/Kg	10	12/17/2019 11:06:55 AM	49356
Motor Oil Range Organics (MRO)	720	470		mg/Kg	10	12/17/2019 11:06:55 AM	49356
Surr: DNOP	0	70-130	S	%Rec	10	12/17/2019 11:06:55 AM	49356
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	12/16/2019 9:59:55 PM	49336
Surr: BFB	79.2	66.6-105		%Rec	1	12/16/2019 9:59:55 PM	49336
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.023		mg/Kg	1	12/16/2019 9:59:55 PM	49336
Toluene	ND	0.046		mg/Kg	1	12/16/2019 9:59:55 PM	49336
Ethylbenzene	ND	0.046		mg/Kg	1	12/16/2019 9:59:55 PM	49336

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Limit	
	S	% Recovery outside of range due to dilution or matrix			

## Analytical Report

Lab Order 1912719

**Hall Environmental Analysis Laboratory, Inc.**

Date Reported: 1/28/2020

Xylenes, Total	ND	0.093	mg/Kg	1	12/16/2019 9:59:55 PM	49336
Surr: 4-Bromofluorobenzene	98.8	80-120	%Rec	1	12/16/2019 9:59:55 PM	49336

CLIENT: Environmental Plus, Inc

Client Sample ID:20191212C3T2M

Project: EPI Treatment Zone Monitoring

Collection Date:12/12/2019 10:41:00 AM

Lab ID: 1912719-003

Received Date:12/13/2019 9:05:00 AM

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CJS</b>
Chloride	ND	60		mg/Kg	20	12/16/2019 1:40:49 PM	49353
<b>EPA METHOD 7471: MERCURY</b>							Analyst: <b>pmf</b>
Mercury	ND	0.033		mg/Kg	1	1/8/2020 10:21:46 AM	49680
<b>EPA METHOD 6010B: SOIL METALS</b>							Analyst: <b>rde</b>
Antimony	ND	5.1		mg/Kg	2	1/10/2020 12:10:23 PM	49677
Arsenic	ND	5.1		mg/Kg	2	1/9/2020 2:34:42 PM	49677
Barium	140	0.20		mg/Kg	2	1/10/2020 12:10:23 PM	49677
Beryllium	0.38	0.30		mg/Kg	2	1/10/2020 12:10:23 PM	49677
Cadmium	ND	0.20		mg/Kg	2	1/10/2020 12:10:23 PM	49677
Chromium	6.2	0.61		mg/Kg	2	1/10/2020 12:10:23 PM	49677
Copper	2.8	0.60		mg/Kg	2	1/15/2020 5:10:53 PM	49792
Iron	5700	250		mg/Kg	100	1/10/2020 12:08:31 PM	49677
Lead	6.9	0.51		mg/Kg	2	1/9/2020 5:07:54 PM	49677
Manganese	58	0.20		mg/Kg	2	1/10/2020 12:10:23 PM	49677
Selenium	ND	5.1		mg/Kg	2	1/9/2020 2:34:42 PM	49677
Silver	ND	0.51		mg/Kg	2	1/10/2020 12:10:23 PM	49677
Zinc	16	5.1		mg/Kg	2	1/10/2020 12:10:23 PM	49677
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	33	9.3		mg/Kg	1	12/18/2019 3:59:25 PM	49356
Motor Oil Range Organics (MRO)	130	47		mg/Kg	1	12/18/2019 3:59:25 PM	49356
Surr: DNOP	123	70-130		%Rec	1	12/18/2019 3:59:25 PM	49356
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/16/2019 10:22:29 PM	49336
Surr: BFB	79.4	66.6-105		%Rec	1	12/16/2019 10:22:29 PM	49336
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	12/16/2019 10:22:29 PM	49336
Toluene	ND	0.049		mg/Kg	1	12/16/2019 10:22:29 PM	49336
Ethylbenzene	ND	0.049		mg/Kg	1	12/16/2019 10:22:29 PM	49336
Xylenes, Total	ND	0.098		mg/Kg	1	12/16/2019 10:22:29 PM	49336
Surr: 4-Bromofluorobenzene	98.7	80-120		%Rec	1	12/16/2019 10:22:29 PM	49336

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Limit	
	S	% Recovery outside of range due to dilution or matrix			

## Analytical Report

Lab Order 1912719

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/28/2020

CLIENT: Environmental Plus, Inc

Client Sample ID: 20191212C4TZM

Project: EPI Treatment Zone Monitoring

Collection Date: 12/12/2019 11:11:00 AM

Lab ID: 1912719-004

Matrix: SOIL

Received Date: 12/13/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CJS</b>
Chloride	ND	60	mg/Kg	20	12/16/2019 1:53:10 PM	49353	
<b>EPA METHOD 7471: MERCURY</b>							Analyst: <b>pmf</b>
Mercury	ND	0.033	mg/Kg	1	1/8/2020 10:23:49 AM	49680	
<b>EPA METHOD 6010B: SOIL METALS</b>							Analyst: <b>rde</b>
Antimony	ND	5.0	mg/Kg	2	1/10/2020 12:12:12 PM	49677	
Arsenic	ND	5.0	mg/Kg	2	1/9/2020 2:36:15 PM	49677	
Barium	89	0.20	mg/Kg	2	1/10/2020 12:12:12 PM	49677	
Beryllium	0.35	0.30	mg/Kg	2	1/10/2020 12:12:12 PM	49677	
Cadmium	ND	0.20	mg/Kg	2	1/10/2020 12:12:12 PM	49677	
Chromium	5.6	0.60	mg/Kg	2	1/10/2020 12:12:12 PM	49677	
Copper	ND	0.59	mg/Kg	2	1/15/2020 5:12:26 PM	49792	
Iron	5300	250	mg/Kg	100	1/10/2020 12:14:02 PM	49677	
Lead	1.6	0.50	mg/Kg	2	1/9/2020 5:09:33 PM	49677	
Manganese	51	0.20	mg/Kg	2	1/10/2020 12:12:12 PM	49677	
Selenium	ND	5.0	mg/Kg	2	1/9/2020 2:36:15 PM	49677	
Silver	ND	0.49	mg/Kg	2	1/15/2020 5:12:26 PM	49792	
Zinc	13	5.0	mg/Kg	2	1/10/2020 12:12:12 PM	49677	
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	18	9.8	mg/Kg	1	12/18/2019 4:23:29 PM	49356	
Motor Oil Range Organics (MRO)	78	49	mg/Kg	1	12/18/2019 4:23:29 PM	49356	
Surr: DNOP	98.8	70-130	%Rec	1	12/18/2019 4:23:29 PM	49356	
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	12/16/2019 10:45:06 PM	49336	
Surr: BFB	76.8	66.6-105	%Rec	1	12/16/2019 10:45:06 PM	49336	
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024	mg/Kg	1	12/16/2019 10:45:06 PM	49336	
Toluene	ND	0.047	mg/Kg	1	12/16/2019 10:45:06 PM	49336	
Ethylbenzene	ND	0.047	mg/Kg	1	12/16/2019 10:45:06 PM	49336	
Xylenes, Total	ND	0.095	mg/Kg	1	12/16/2019 10:45:06 PM	49336	
Surr: 4-Bromofluorobenzene	96.0	80-120	%Rec	1	12/16/2019 10:45:06 PM	49336	

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Limit	
	S	% Recovery outside of range due to dilution or matrix			



## Analytical Report

Lab Order 1912719

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/28/2020

CLIENT: Environmental Plus, Inc

Client Sample ID: 20191212C5TZM

Project: EPI Treatment Zone Monitoring

Collection Date: 12/12/2019 11:25:00 AM

Lab ID: 1912719-005

Matrix: SOIL

Received Date: 12/13/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CJS</b>
Chloride	ND	60		mg/Kg	20	12/16/2019 2:30:12 PM	49353
<b>EPA METHOD 7471: MERCURY</b>							Analyst: <b>pmf</b>
Mercury	ND	0.033		mg/Kg	1	1/8/2020 10:25:51 AM	49680
<b>EPA METHOD 6010B: SOIL METALS</b>							Analyst: <b>rde</b>
Antimony	ND	5.1		mg/Kg	2	1/10/2020 12:15:52 PM	49677
Arsenic	9.0	5.1		mg/Kg	2	1/9/2020 2:37:47 PM	49677
Barium	83	0.20		mg/Kg	2	1/10/2020 12:15:52 PM	49677
Beryllium	0.31	0.31		mg/Kg	2	1/10/2020 12:15:52 PM	49677
Cadmium	ND	0.20		mg/Kg	2	1/10/2020 12:15:52 PM	49677
Chromium	5.6	0.61		mg/Kg	2	1/10/2020 12:15:52 PM	49677
Copper	2.5	0.59		mg/Kg	2	1/15/2020 5:17:12 PM	49792
Iron	4400	250		mg/Kg	100	1/10/2020 12:17:42 PM	49677
Lead	10	0.51		mg/Kg	2	1/9/2020 5:11:13 PM	49677
Manganese	58	0.20		mg/Kg	2	1/10/2020 12:15:52 PM	49677
Selenium	ND	5.1		mg/Kg	2	1/9/2020 2:37:47 PM	49677
Silver	ND	0.49		mg/Kg	2	1/15/2020 5:17:12 PM	49792
Zinc	18	5.1		mg/Kg	2	1/10/2020 12:15:52 PM	49677
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	46	10		mg/Kg	1	12/18/2019 4:47:46 PM	49356
Motor Oil Range Organics (MRO)	200	50		mg/Kg	1	12/18/2019 4:47:46 PM	49356
Surr: DNOP	99.7	70-130		%Rec	1	12/18/2019 4:47:46 PM	49356
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/16/2019 12:36:42 PM	49340
Surr: BFB	75.0	66.6-105		%Rec	1	12/16/2019 12:36:42 PM	49340
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	12/16/2019 12:36:42 PM	49340
Toluene	ND	0.049		mg/Kg	1	12/16/2019 12:36:42 PM	49340
Ethylbenzene	ND	0.049		mg/Kg	1	12/16/2019 12:36:42 PM	49340
Xylenes, Total	ND	0.098		mg/Kg	1	12/16/2019 12:36:42 PM	49340
Surr: 4-Bromofluorobenzene	90.0	80-120		%Rec	1	12/16/2019 12:36:42 PM	49340

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Limit	
	S	% Recovery outside of range due to dilution or matrix			

## Analytical Report

Lab Order 1912719

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/28/2020

CLIENT: Environmental Plus, Inc

Client Sample ID: 20191212C6TZM

Project: EPI Treatment Zone Monitoring

Collection Date: 12/12/2019 12:00:00 PM

Lab ID: 1912719-006

Matrix: SOIL

Received Date: 12/13/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CJS</b>
Chloride	ND	61		mg/Kg	20	12/16/2019 2:42:34 PM	49353
<b>EPA METHOD 7471: MERCURY</b>							Analyst: <b>pmf</b>
Mercury	ND	0.033		mg/Kg	1	1/8/2020 10:32:03 AM	49680
<b>EPA METHOD 6010B: SOIL METALS</b>							Analyst: <b>rde</b>
Antimony	ND	4.9		mg/Kg	2	1/10/2020 12:25:55 PM	49677
Arsenic	ND	4.9		mg/Kg	2	1/9/2020 2:39:19 PM	49677
Barium	73	0.19		mg/Kg	2	1/10/2020 12:25:55 PM	49677
Beryllium	0.41	0.29		mg/Kg	2	1/10/2020 12:25:55 PM	49677
Cadmium	ND	0.19		mg/Kg	2	1/10/2020 12:25:55 PM	49677
Chromium	6.5	0.58		mg/Kg	2	1/10/2020 12:25:55 PM	49677
Copper	2.2	0.60		mg/Kg	2	1/15/2020 5:18:40 PM	49792
Iron	6700	240		mg/Kg	100	1/10/2020 12:27:47 PM	49677
Lead	2.0	0.49		mg/Kg	2	1/9/2020 5:12:51 PM	49677
Manganese	65	0.19		mg/Kg	2	1/10/2020 12:25:55 PM	49677
Selenium	ND	4.9		mg/Kg	2	1/9/2020 2:39:19 PM	49677
Silver	ND	0.50		mg/Kg	2	1/15/2020 5:18:40 PM	49792
Zinc	16	4.9		mg/Kg	2	1/10/2020 12:25:55 PM	49677
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	12/18/2019 5:35:50 PM	49356
Motor Oil Range Organics (MRO)	59	49		mg/Kg	1	12/18/2019 5:35:50 PM	49356
Surr: DNOP	111	70-130		%Rec	1	12/18/2019 5:35:50 PM	49356
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	12/16/2019 1:47:12 PM	49340
Surr: BFB	76.1	66.6-105		%Rec	1	12/16/2019 1:47:12 PM	49340
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.023		mg/Kg	1	12/16/2019 1:47:12 PM	49340
Toluene	ND	0.046		mg/Kg	1	12/16/2019 1:47:12 PM	49340
Ethylbenzene	ND	0.046		mg/Kg	1	12/16/2019 1:47:12 PM	49340
Xylenes, Total	ND	0.092		mg/Kg	1	12/16/2019 1:47:12 PM	49340
Surr: 4-Bromofluorobenzene	90.9	80-120		%Rec	1	12/16/2019 1:47:12 PM	49340

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Limit	
	S	% Recovery outside of range due to dilution or matrix			

## Analytical Report

Lab Order 1912719

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/28/2020

CLIENT: Environmental Plus, Inc

Client Sample ID: 20191212C7TZM

Project: EPI Treatment Zone Monitoring

Collection Date: 12/12/2019 12:10:00 PM

Lab ID: 1912719-007

Matrix: SOIL

Received Date: 12/13/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CJS</b>
Chloride	ND	60		mg/Kg	20	12/16/2019 2:54:56 PM	49353
<b>EPA METHOD 7471: MERCURY</b>							Analyst: <b>pmf</b>
Mercury	ND	0.033		mg/Kg	1	1/8/2020 10:34:06 AM	49680
<b>EPA METHOD 6010B: SOIL METALS</b>							Analyst: <b>rde</b>
Antimony	ND	5.0		mg/Kg	2	1/10/2020 12:29:39 PM	49677
Arsenic	ND	5.0		mg/Kg	2	1/9/2020 2:40:51 PM	49677
Barium	85	0.20		mg/Kg	2	1/10/2020 12:29:39 PM	49677
Beryllium	0.36	0.30		mg/Kg	2	1/10/2020 12:29:39 PM	49677
Cadmium	ND	0.20		mg/Kg	2	1/10/2020 12:29:39 PM	49677
Chromium	6.0	0.60		mg/Kg	2	1/10/2020 12:29:39 PM	49677
Copper	1.8	0.59		mg/Kg	2	1/15/2020 5:20:12 PM	49792
Iron	5600	250		mg/Kg	100	1/10/2020 12:31:29 PM	49677
Lead	1.3	0.50		mg/Kg	2	1/9/2020 5:19:56 PM	49677
Manganese	50	0.20		mg/Kg	2	1/10/2020 12:29:39 PM	49677
Selenium	ND	5.0		mg/Kg	2	1/9/2020 2:40:51 PM	49677
Silver	ND	0.49		mg/Kg	2	1/15/2020 5:20:12 PM	49792
Zinc	15	5.0		mg/Kg	2	1/10/2020 12:29:39 PM	49677
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	21	9.9		mg/Kg	1	12/18/2019 5:59:39 PM	49356
Motor Oil Range Organics (MRO)	68	49		mg/Kg	1	12/18/2019 5:59:39 PM	49356
Surr: DNOP	97.0	70-130		%Rec	1	12/18/2019 5:59:39 PM	49356
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/16/2019 2:10:26 PM	49340
Surr: BFB	75.7	66.6-105		%Rec	1	12/16/2019 2:10:26 PM	49340
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.023		mg/Kg	1	12/16/2019 2:10:26 PM	49340
Toluene	ND	0.047		mg/Kg	1	12/16/2019 2:10:26 PM	49340
Ethylbenzene	ND	0.047		mg/Kg	1	12/16/2019 2:10:26 PM	49340
Xylenes, Total	ND	0.094		mg/Kg	1	12/16/2019 2:10:26 PM	49340
Surr: 4-Bromofluorobenzene	89.2	80-120		%Rec	1	12/16/2019 2:10:26 PM	49340

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Limit	
	S	% Recovery outside of range due to dilution or matrix			

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## Analytical Report

Lab Order 1912719

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/28/2020

CLIENT: Environmental Plus, Inc

Client Sample ID:20191212C8TZM

Project: EPI Treatment Zone Monitoring

Collection Date:12/12/2019 12:15:00 PM

Lab ID: 1912719-008

Matrix: SOIL

Received Date:12/13/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CJS</b>
Chloride	ND	60	mg/Kg	20	12/16/2019 3:07:16 PM	49353	
<b>EPA METHOD 7471: MERCURY</b>							Analyst: <b>pmf</b>
Mercury	ND	0.033	mg/Kg	1	1/8/2020 10:36:10 AM	49680	
<b>EPA METHOD 6010B: SOIL METALS</b>							Analyst: <b>rde</b>
Antimony	ND	5.1	mg/Kg	2	1/10/2020 12:33:20 PM	49677	
Arsenic	ND	5.1	mg/Kg	2	1/9/2020 2:42:23 PM	49677	
Barium	80	0.20	mg/Kg	2	1/10/2020 12:33:20 PM	49677	
Beryllium	0.41	0.31	mg/Kg	2	1/10/2020 12:33:20 PM	49677	
Cadmium	ND	0.20	mg/Kg	2	1/10/2020 12:33:20 PM	49677	
Chromium	6.6	0.61	mg/Kg	2	1/10/2020 12:33:20 PM	49677	
Copper	2.8	0.60	mg/Kg	2	1/15/2020 5:21:45 PM	49792	
Iron	6500	260	mg/Kg	100	1/10/2020 12:35:03 PM	49677	
Lead	2.0	0.51	mg/Kg	2	1/9/2020 5:21:37 PM	49677	
Manganese	58	0.20	mg/Kg	2	1/10/2020 12:33:20 PM	49677	
Selenium	ND	5.1	mg/Kg	2	1/9/2020 2:42:23 PM	49677	
Silver	ND	0.50	mg/Kg	2	1/15/2020 5:21:45 PM	49792	
Zinc	16	5.1	mg/Kg	2	1/10/2020 12:33:20 PM	49677	
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	9.9	9.9	mg/Kg	1	12/18/2019 6:23:39 PM	49356	
Motor Oil Range Organics (MRO)	82	49	mg/Kg	1	12/18/2019 6:23:39 PM	49356	
Surr: DNOP	92.9	70-130	%Rec	1	12/18/2019 6:23:39 PM	49356	
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	12/16/2019 2:33:56 PM	49340	
Surr: BFB	74.0	66.6-105	%Rec	1	12/16/2019 2:33:56 PM	49340	
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024	mg/Kg	1	12/16/2019 2:33:56 PM	49340	
Toluene	ND	0.048	mg/Kg	1	12/16/2019 2:33:56 PM	49340	
Ethylbenzene	ND	0.048	mg/Kg	1	12/16/2019 2:33:56 PM	49340	
Xylenes, Total	ND	0.096	mg/Kg	1	12/16/2019 2:33:56 PM	49340	
Surr: 4-Bromofluorobenzene	87.9	80-120	%Rec	1	12/16/2019 2:33:56 PM	49340	

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Limit	
	S	% Recovery outside of range due to dilution or matrix			

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## Analytical Report

Lab Order 1912719

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/28/2020

CLIENT: Environmental Plus, Inc

Client Sample ID: 20191212C9TZM

Project: EPI Treatment Zone Monitoring

Collection Date: 12/12/2019 12:25:00 PM

Lab ID: 1912719-009

Matrix: SOIL

Received Date: 12/13/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CJS</b>
Chloride	ND	60		mg/Kg	20	12/16/2019 3:44:18 PM	49353
<b>EPA METHOD 7471: MERCURY</b>							Analyst: <b>pmf</b>
Mercury	ND	0.033		mg/Kg	1	1/8/2020 10:38:14 AM	49680
<b>EPA METHOD 6010B: SOIL METALS</b>							Analyst: <b>rde</b>
Antimony	ND	5.0		mg/Kg	2	1/10/2020 12:36:47 PM	49677
Arsenic	ND	5.0		mg/Kg	2	1/9/2020 2:43:54 PM	49677
Barium	62	0.20		mg/Kg	2	1/10/2020 12:36:47 PM	49677
Beryllium	0.39	0.30		mg/Kg	2	1/10/2020 12:36:47 PM	49677
Cadmium	ND	0.20		mg/Kg	2	1/10/2020 12:36:47 PM	49677
Chromium	6.5	0.60		mg/Kg	2	1/10/2020 12:36:47 PM	49677
Copper	2.2	0.61		mg/Kg	2	1/15/2020 5:23:18 PM	49792
Iron	6600	250		mg/Kg	100	1/10/2020 12:38:36 PM	49677
Lead	1.4	0.50		mg/Kg	2	1/9/2020 5:23:15 PM	49677
Manganese	67	0.20		mg/Kg	2	1/10/2020 12:36:47 PM	49677
Selenium	ND	5.0		mg/Kg	2	1/9/2020 2:43:54 PM	49677
Silver	ND	0.51		mg/Kg	2	1/15/2020 5:23:18 PM	49792
Zinc	16	5.0		mg/Kg	2	1/10/2020 12:36:47 PM	49677
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	17	9.7		mg/Kg	1	12/18/2019 6:47:28 PM	49356
Motor Oil Range Organics (MRO)	94	48		mg/Kg	1	12/18/2019 6:47:28 PM	49356
Surr: DNOP	105	70-130		%Rec	1	12/18/2019 6:47:28 PM	49356
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/16/2019 2:57:23 PM	49340
Surr: BFB	75.1	66.6-105		%Rec	1	12/16/2019 2:57:23 PM	49340
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	12/16/2019 2:57:23 PM	49340
Toluene	ND	0.049		mg/Kg	1	12/16/2019 2:57:23 PM	49340
Ethylbenzene	ND	0.049		mg/Kg	1	12/16/2019 2:57:23 PM	49340
Xylenes, Total	ND	0.098		mg/Kg	1	12/16/2019 2:57:23 PM	49340
Surr: 4-Bromofluorobenzene	89.7	80-120		%Rec	1	12/16/2019 2:57:23 PM	49340

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Limit	
	S	% Recovery outside of range due to dilution or matrix			

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## Analytical Report

Lab Order 1912719

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/28/2020

CLIENT: Environmental Plus, Inc

Client Sample ID:20191212C10TZM

Project: EPI Treatment Zone Monitoring

Collection Date:12/12/2019 12:34:00 PM

Lab ID: 1912719-010

Matrix: SOIL

Received Date:12/13/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CJS</b>
Chloride	ND	60		mg/Kg	20	12/16/2019 4:21:21 PM	49353
<b>EPA METHOD 7471: MERCURY</b>							Analyst: <b>pmf</b>
Mercury	ND	0.033		mg/Kg	1	1/8/2020 10:40:18 AM	49680
<b>EPA METHOD 6010B: SOIL METALS</b>							Analyst: <b>rde</b>
Antimony	ND	4.9		mg/Kg	2	1/10/2020 12:40:26 PM	49677
Arsenic	ND	4.9		mg/Kg	2	1/9/2020 2:45:26 PM	49677
Barium	34	0.19		mg/Kg	2	1/10/2020 12:40:26 PM	49677
Beryllium	0.33	0.29		mg/Kg	2	1/10/2020 12:40:26 PM	49677
Cadmium	ND	0.19		mg/Kg	2	1/10/2020 12:40:26 PM	49677
Chromium	6.3	0.58		mg/Kg	2	1/10/2020 12:40:26 PM	49677
Copper	1.6	0.60		mg/Kg	2	1/15/2020 5:24:53 PM	49792
Iron	5900	240		mg/Kg	100	1/10/2020 12:42:15 PM	49677
Lead	1.3	0.49		mg/Kg	2	1/9/2020 5:24:53 PM	49677
Manganese	61	0.19		mg/Kg	2	1/10/2020 12:40:26 PM	49677
Selenium	ND	4.9		mg/Kg	2	1/9/2020 2:45:26 PM	49677
Silver	ND	0.50		mg/Kg	2	1/15/2020 5:24:53 PM	49792
Zinc	13	4.9		mg/Kg	2	1/10/2020 12:40:26 PM	49677
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	12/18/2019 7:11:26 PM	49356
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/18/2019 7:11:26 PM	49356
Surr: DNOP	111	70-130		%Rec	1	12/18/2019 7:11:26 PM	49356
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/16/2019 4:31:22 PM	49340
Surr: BFB	77.6	66.6-105		%Rec	1	12/16/2019 4:31:22 PM	49340
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.023		mg/Kg	1	12/16/2019 4:31:22 PM	49340
Toluene	ND	0.047		mg/Kg	1	12/16/2019 4:31:22 PM	49340
Ethylbenzene	ND	0.047		mg/Kg	1	12/16/2019 4:31:22 PM	49340
Xylenes, Total	ND	0.094		mg/Kg	1	12/16/2019 4:31:22 PM	49340
Surr: 4-Bromofluorobenzene	93.5	80-120		%Rec	1	12/16/2019 4:31:22 PM	49340

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Limit	
	S	% Recovery outside of range due to dilution or matrix			

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## Analytical Report

Lab Order 1912719

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/28/2020

CLIENT: Environmental Plus, Inc

Client Sample ID: 20191212C11TZM

Project: EPI Treatment Zone Monitoring

Collection Date: 12/12/2019 12:43:00 PM

Lab ID: 1912719-011

Matrix: SOIL

Received Date: 12/13/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CJS</b>
Chloride	ND	60		mg/Kg	20	12/16/2019 4:58:25 PM	49353
<b>EPA METHOD 7471: MERCURY</b>							Analyst: <b>pmf</b>
Mercury	ND	0.033		mg/Kg	1	1/8/2020 10:42:23 AM	49680
<b>EPA METHOD 6010B: SOIL METALS</b>							Analyst: <b>rde</b>
Antimony	ND	5.0		mg/Kg	2	1/10/2020 12:50:22 PM	49677
Arsenic	5.6	5.0		mg/Kg	2	1/9/2020 2:46:59 PM	49677
Barium	75	0.20		mg/Kg	2	1/10/2020 12:50:22 PM	49677
Beryllium	0.57	0.30		mg/Kg	2	1/10/2020 12:50:22 PM	49677
Cadmium	ND	0.20		mg/Kg	2	1/10/2020 12:50:22 PM	49677
Chromium	8.6	0.60		mg/Kg	2	1/10/2020 12:50:22 PM	49677
Copper	3.4	0.61		mg/Kg	2	1/15/2020 5:26:26 PM	49792
Iron	9600	250		mg/Kg	100	1/10/2020 12:52:14 PM	49677
Lead	3.1	0.50		mg/Kg	2	1/9/2020 5:26:32 PM	49677
Manganese	120	0.20		mg/Kg	2	1/10/2020 12:50:22 PM	49677
Selenium	ND	5.0		mg/Kg	2	1/9/2020 2:46:59 PM	49677
Silver	ND	0.51		mg/Kg	2	1/15/2020 5:26:26 PM	49792
Zinc	21	5.0		mg/Kg	2	1/10/2020 12:50:22 PM	49677
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	12/18/2019 7:59:07 PM	49356
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/18/2019 7:59:07 PM	49356
Surr: DNOP	96.6	70-130		%Rec	1	12/18/2019 7:59:07 PM	49356
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/16/2019 4:54:43 PM	49340
Surr: BFB	76.9	66.6-105		%Rec	1	12/16/2019 4:54:43 PM	49340
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	12/16/2019 4:54:43 PM	49340
Toluene	ND	0.048		mg/Kg	1	12/16/2019 4:54:43 PM	49340
Ethylbenzene	ND	0.048		mg/Kg	1	12/16/2019 4:54:43 PM	49340
Xylenes, Total	ND	0.095		mg/Kg	1	12/16/2019 4:54:43 PM	49340
Surr: 4-Bromofluorobenzene	93.3	80-120		%Rec	1	12/16/2019 4:54:43 PM	49340

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Limit	
	S	% Recovery outside of range due to dilution or matrix			

## Analytical Report

Lab Order 1912719

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/28/2020

CLIENT: Environmental Plus, Inc

Client Sample ID: 20191212C12T2M

Project: EPI Treatment Zone Monitoring

Collection Date: 12/12/2019 12:52:00 PM

Lab ID: 1912719-012

Matrix: SOIL

Received Date: 12/13/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CJS</b>
Chloride	ND	60		mg/Kg	20	12/16/2019 5:10:46 PM	49353
<b>EPA METHOD 7471: MERCURY</b>							Analyst: <b>pmf</b>
Mercury	ND	0.033		mg/Kg	1	1/8/2020 10:44:21 AM	49680
<b>EPA METHOD 6010B: SOIL METALS</b>							Analyst: <b>rde</b>
Antimony	ND	5.1		mg/Kg	2	1/10/2020 12:54:06 PM	49677
Arsenic	ND	5.1		mg/Kg	2	1/9/2020 2:51:27 PM	49677
Barium	72	0.20		mg/Kg	2	1/10/2020 12:54:06 PM	49677
Beryllium	0.32	0.31		mg/Kg	2	1/10/2020 12:54:06 PM	49677
Cadmium	ND	0.20		mg/Kg	2	1/10/2020 12:54:06 PM	49677
Chromium	5.4	0.61		mg/Kg	2	1/10/2020 12:54:06 PM	49677
Copper	2.8	0.61		mg/Kg	2	1/15/2020 5:27:59 PM	49792
Iron	5400	260		mg/Kg	100	1/10/2020 12:55:55 PM	49677
Lead	2.7	0.51		mg/Kg	2	1/9/2020 5:28:10 PM	49677
Manganese	87	0.20		mg/Kg	2	1/10/2020 12:54:06 PM	49677
Selenium	ND	5.1		mg/Kg	2	1/9/2020 2:51:27 PM	49677
Silver	ND	0.51		mg/Kg	2	1/15/2020 5:27:59 PM	49792
Zinc	14	5.1		mg/Kg	2	1/10/2020 12:54:06 PM	49677
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	50	20		mg/Kg	2	12/19/2019 2:19:25 PM	49386
Motor Oil Range Organics (MRO)	210	99		mg/Kg	2	12/19/2019 2:19:25 PM	49386
Surr: DNOP	96.9	70-130		%Rec	2	12/19/2019 2:19:25 PM	49386
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/16/2019 5:18:06 PM	49340
Surr: BFB	73.3	66.6-105		%Rec	1	12/16/2019 5:18:06 PM	49340
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	12/16/2019 5:18:06 PM	49340
Toluene	ND	0.048		mg/Kg	1	12/16/2019 5:18:06 PM	49340
Ethylbenzene	ND	0.048		mg/Kg	1	12/16/2019 5:18:06 PM	49340
Xylenes, Total	ND	0.096		mg/Kg	1	12/16/2019 5:18:06 PM	49340
Surr: 4-Bromofluorobenzene	88.8	80-120		%Rec	1	12/16/2019 5:18:06 PM	49340

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Limit	
	S	% Recovery outside of range due to dilution or matrix			

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## Analytical Report

Lab Order 1912719

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/28/2020

CLIENT: Environmental Plus, Inc

Client Sample ID: 20191212C13TZM

Project: EPI Treatment Zone Monitoring

Collection Date: 12/12/2019 1:00:00 PM

Lab ID: 1912719-013

Matrix: SOIL

Received Date: 12/13/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CJS</b>
Chloride	ND	60		mg/Kg	20	12/16/2019 5:23:07 PM	49353
<b>EPA METHOD 7471: MERCURY</b>							Analyst: <b>pmf</b>
Mercury	ND	0.033		mg/Kg	1	12/20/2019 12:12:38 PM	49440
<b>EPA METHOD 6010B: SOIL METALS</b>							Analyst: <b>rde</b>
Antimony	ND	5.0		mg/Kg	2	12/24/2019 12:49:30 PM	49414
Arsenic	ND	5.0		mg/Kg	2	12/24/2019 12:49:30 PM	49414
Barium	46	0.20		mg/Kg	2	12/24/2019 12:49:30 PM	49414
Beryllium	0.31	0.30		mg/Kg	2	12/24/2019 12:49:30 PM	49414
Cadmium	ND	0.20		mg/Kg	2	12/24/2019 12:49:30 PM	49414
Chromium	4.4	0.60		mg/Kg	2	12/24/2019 12:49:30 PM	49414
Copper	1.6	0.60		mg/Kg	2	12/24/2019 12:49:30 PM	49414
Iron	5100	250		mg/Kg	100	12/31/2019 11:07:44 AM	49414
Lead	2.3	0.50		mg/Kg	2	12/31/2019 11:06:02 AM	49414
Manganese	59	0.20		mg/Kg	2	12/24/2019 12:49:30 PM	49414
Selenium	ND	5.0		mg/Kg	2	12/31/2019 2:31:17 PM	49414
Silver	ND	0.50		mg/Kg	2	12/24/2019 12:49:30 PM	49414
Zinc	10	5.0		mg/Kg	2	12/24/2019 12:49:30 PM	49414
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	57	9.6		mg/Kg	1	12/23/2019 1:37:17 PM	49458
Motor Oil Range Organics (MRO)	210	48		mg/Kg	1	12/23/2019 1:37:17 PM	49458
Surr: DNOP	101	70-130		%Rec	1	12/23/2019 1:37:17 PM	49458
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/16/2019 5:41:27 PM	49340
Surr: BFB	75.8	66.6-105		%Rec	1	12/16/2019 5:41:27 PM	49340
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	12/16/2019 5:41:27 PM	49340
Toluene	ND	0.048		mg/Kg	1	12/16/2019 5:41:27 PM	49340
Ethylbenzene	ND	0.048		mg/Kg	1	12/16/2019 5:41:27 PM	49340
Xylenes, Total	ND	0.096		mg/Kg	1	12/16/2019 5:41:27 PM	49340
Surr: 4-Bromofluorobenzene	91.3	80-120		%Rec	1	12/16/2019 5:41:27 PM	49340

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded		J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit		P	Sample pH Not In Range
	PQL	Practical Quantitative Limit		RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix			

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## Analytical Report

Lab Order 1912719

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/28/2020

CLIENT: Environmental Plus, Inc

Client Sample ID: 20191212C14TZM

Project: EPI Treatment Zone Monitoring

Collection Date: 12/12/2019 1:03:00 PM

Lab ID: 1912719-014

Matrix: SOIL

Received Date: 12/13/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CJS</b>
Chloride	ND	60		mg/Kg	20	12/16/2019 5:35:29 PM	49353
<b>EPA METHOD 7471: MERCURY</b>							Analyst: <b>pmf</b>
Mercury	ND	0.033		mg/Kg	1	12/20/2019 12:18:38 PM	49440
<b>EPA METHOD 6010B: SOIL METALS</b>							Analyst: <b>rde</b>
Antimony	ND	5.0		mg/Kg	2	12/24/2019 12:59:18 PM	49414
Arsenic	ND	5.0		mg/Kg	2	12/24/2019 12:59:18 PM	49414
Barium	250	0.20		mg/Kg	2	12/24/2019 12:59:18 PM	49414
Beryllium	0.44	0.30		mg/Kg	2	12/24/2019 12:59:18 PM	49414
Cadmium	ND	0.20		mg/Kg	2	12/24/2019 12:59:18 PM	49414
Chromium	6.1	0.60		mg/Kg	2	12/24/2019 12:59:18 PM	49414
Copper	2.4	0.60		mg/Kg	2	12/24/2019 12:59:18 PM	49414
Iron	6500	250		mg/Kg	100	12/31/2019 11:10:57 AM	49414
Lead	3.8	0.50		mg/Kg	2	12/31/2019 11:09:17 AM	49414
Manganese	73	0.20		mg/Kg	2	12/24/2019 12:59:18 PM	49414
Selenium	ND	5.0		mg/Kg	2	12/31/2019 2:32:50 PM	49414
Silver	ND	0.50		mg/Kg	2	12/24/2019 12:59:18 PM	49414
Zinc	15	5.0		mg/Kg	2	12/24/2019 12:59:18 PM	49414
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	12/19/2019 3:56:53 PM	49386
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/19/2019 3:56:53 PM	49386
Surr: DNOP	120	70-130		%Rec	1	12/19/2019 3:56:53 PM	49386
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/16/2019 6:04:48 PM	49340
Surr: BFB	73.7	66.6-105		%Rec	1	12/16/2019 6:04:48 PM	49340
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	12/16/2019 6:04:48 PM	49340
Toluene	ND	0.047		mg/Kg	1	12/16/2019 6:04:48 PM	49340
Ethylbenzene	ND	0.047		mg/Kg	1	12/16/2019 6:04:48 PM	49340
Xylenes, Total	ND	0.094		mg/Kg	1	12/16/2019 6:04:48 PM	49340
Surr: 4-Bromofluorobenzene	89.0	80-120		%Rec	1	12/16/2019 6:04:48 PM	49340

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Limit	
	S	% Recovery outside of range due to dilution or matrix			

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## Analytical Report

Lab Order 1912719

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/28/2020

CLIENT: Environmental Plus, Inc

Client Sample ID: 20191212C15TZM

Project: EPI Treatment Zone Monitoring

Collection Date: 12/12/2019 1:14:00 PM

Lab ID: 1912719-015

Matrix: SOIL

Received Date: 12/13/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: CJS
Chloride	ND	60		mg/Kg	20	12/17/2019 7:07:35 PM	
	49399						
<b>EPA METHOD 7471: MERCURY</b>							Analyst: pmf
Mercury	ND	0.033		mg/Kg	1	12/20/2019 12:20:39 PM	49440
<b>EPA METHOD 6010B: SOIL METALS</b>							Analyst: rde
Antimony	ND	5.0		mg/Kg	2	12/24/2019 1:01:14 PM	
	49414						
Arsenic	ND	5.0		mg/Kg	2	12/24/2019 1:01:14 PM	
	49414						
Barium	72	0.20		mg/Kg	2	12/24/2019 1:01:14 PM	
	49414						
Beryllium	0.45	0.30		mg/Kg	2	12/24/2019 1:01:14 PM	
	49414						
Cadmium	ND	0.20		mg/Kg	2	12/24/2019 1:01:14 PM	
	49414						
Chromium	5.8	0.60		mg/Kg	2	12/24/2019 1:01:14 PM	
	49414						
Copper	1.7	0.60		mg/Kg	2	12/24/2019 1:01:14 PM	
	49414						
Iron	8000	250		mg/Kg	100	12/31/2019 11:21:08 AM	49414
Lead	2.3	0.50		mg/Kg	2	12/31/2019 11:19:26 AM	49414
Manganese	57	0.20		mg/Kg	2	12/24/2019 1:01:14 PM	
	49414						
Selenium	ND	5.0		mg/Kg	2	12/31/2019 2:34:22 PM	
	49414						
Silver	ND	0.50		mg/Kg	2	12/24/2019 1:01:14 PM	
	49414						
Zinc	14	5.0		mg/Kg	2	12/24/2019 1:01:14 PM	
	49414						
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	12/19/2019 4:21:05 PM	
	49386						
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/19/2019 4:21:05 PM	
	49386						
Surr: DNOP	106	70-130		%Rec	1	12/19/2019 4:21:05 PM	
	49386						
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/16/2019 6:28:10 PM	
	49340						
Surr: BFB	74.2	66.6-105		%Rec	1	12/16/2019 6:28:10 PM	
	49340						
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	12/16/2019 6:28:10 PM	
	49340						

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Limit	
	S	% Recovery outside of range due to dilution or matrix			

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**Analytical Report**Lab Order **1912719****Hall Environmental Analysis Laboratory, Inc.**Date Reported: **1/28/2020**

Toluene	ND	0.048	mg/Kg	1	12/16/2019 6:28:10 PM
	49340				
Ethylbenzene	ND	0.048	mg/Kg	1	12/16/2019 6:28:10 PM
	49340				
Xylenes, Total	ND	0.096	mg/Kg	1	12/16/2019 6:28:10 PM
	49340				
Surr: 4-Bromofluorobenzene	91.0	80-120	%Rec	1	12/16/2019 6:28:10 PM
	49340				

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
		Diluted Due to Matrix	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded		J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit		P	Sample pH Not In Range
	PQL	Practical Quantitative Limit		RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix			

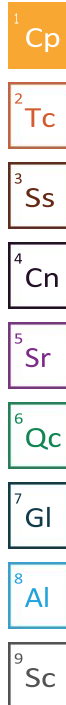
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# ANALYTICAL REPORT

January 28, 2020



## Hall Environmental Analysis Laboratory

Sample Delivery Group: L1182730

Samples Received: 01/24/2020

Project Number:

Description:

Report To:

4901 Hawkins NE

Albuquerque, NM 87109

Entire Report Reviewed By:

Daphne Richards

Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

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2Tc

3Ss

4Cn

5Sr

6Qc

7GI

8AI

9Sc

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B	WG1417156	1	01/26/20 05:57	01/28/20 01:23	TRB	Mt. Juliet, TN
1912719-002A 20191212C2TZM L1182730-02 Solid				Collected date/time 12/12/19 11:00	Received date/time 01/24/20 09:00	

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B	WG1417156	1	01/26/20 05:57	01/28/20 01:26	TRB	Mt. Juliet, TN
1912719-003A 20191212C3TZM L1182730-03 Solid				Collected date/time 12/12/19 10:41	Received date/time 01/24/20 09:00	

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B	WG1417156	1	01/26/20 05:57	01/28/20 01:29	TRB	Mt. Juliet, TN

## SAMPLE SUMMARY

1912719-001A 20191212C1TZM L1182730-01 Solid

Collected by	Collected date/time	Received date/time
	12/12/19 10:29	01/24/20 09:00

1  
Cp2  
Tc3  
Ss

1912719-004A 20191212C4TZM L1182730-04 Solid

Collected by	Collected date/time	Received date/time
	12/12/19 11:11	01/24/20 09:00

4  
Cn5  
Sr

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B	WG1417156	1	01/26/20 05:57	01/28/20 01:31	TRB	Mt. Juliet, TN

6  
Qc

1912719-005A 20191212C5TZM L1182730-05 Solid

Collected by	Collected date/time	Received date/time
	12/12/19 11:25	01/24/20 09:00

7  
Gl8  
Al

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B	WG1417156	1	01/26/20 05:57	01/28/20 01:34	TRB	Mt. Juliet, TN

9  
Sc

1912719-006A 20191212C6TZM L1182730-06 Solid

Collected by	Collected date/time	Received date/time
	12/12/19 12:00	01/24/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B	WG1417156	1	01/26/20 05:57	01/28/20 01:37	TRB	Mt. Juliet, TN

1912719-007A 20191212C7TZM L1182730-07 Solid

Collected by	Collected date/time	Received date/time
	12/12/19 12:10	01/24/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B	WG1417156	1	01/26/20 05:57	01/28/20 01:39	TRB	Mt. Juliet, TN

1912719-008A 20191212C8TZM L1182730-08 Solid

Collected by	Collected date/time	Received date/time
	12/12/19 12:15	01/24/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B	WG1417156	1	01/26/20 05:57	01/28/20 01:42	TRB	Mt. Juliet, TN



## II. SAMPLE SUMMARY

---

<sup>1</sup>Cp

<sup>2</sup>Tc

1  
Cp

3  
Ss

4  
Cn

5  
Sr

6  
Qc

7  
Gl

8  
Al

9  
Sc

				Collected by	Collected date/time	Received date/time
1912719-009A 20191212C9TZM L1182730-09 Solid					12/12/19 12:25	01/24/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B	WG1417156	1	01/26/20 05:57	01/28/20 01:50	TRB	Mt. Juliet, TN

				Collected by	Collected date/time	Received date/time
1912719-010A 20191212C10TZM L1182730-10 Solid					12/12/19 12:34	01/24/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B	WG1417156	1	01/26/20 05:57	01/28/20 01:53	TRB	Mt. Juliet, TN

				Collected by	Collected date/time	Received date/time
1912719-011A 20191212C11TZM L1182730-11 Solid					12/12/19 12:43	01/24/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B	WG1417156	1	01/26/20 05:57	01/28/20 01:55	TRB	Mt. Juliet, TN

				Collected by	Collected date/time	Received date/time
1912719-012A 20191212C12TZM L1182730-12 Solid					12/12/19 12:52	01/24/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B	WG1417156	1	01/26/20 05:57	01/28/20 01:58	TRB	Mt. Juliet, TN

				Collected by	Collected date/time	Received date/time
1912719-013A 20191212C13TZM L1182730-13 Solid					12/12/19 13:00	01/24/20 09:00

Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
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			date/time	date/time		
Metals (ICP) by Method 6010B	WG1417156	1	01/26/20 05:57	01/28/20 02:01	TRB	Mt. Juliet, TN
			Collected by	Collected date/time	Received date/time	
1912719-014A 20191212C14TZM L1182730-14				12/12/19 13:03	01/24/20 09:00	
Solid						
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B	WG1417156	1	01/26/20 05:57	01/28/20 02:03	TRB	Mt. Juliet, TN
			Collected by	Collected date/time	Received date/time	
1912719-015A 20191212C15TZM L1182730-15				12/12/19 13:14	01/24/20 09:00	
Solid						
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location



Metals (ICP) by Method 6010B

WG1417156

1

01/26/20 05:57

01/28/20 00:55

TRB

Mt. Juliet, TN

<sup>1</sup>Cp

### III. CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within

the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

*Daphne R Richards*

Daphne Richards  
Project Manager

1912719-001A 20191212C1TZM  
Collected date/time: 12/12/19 10:29

SAMPLE RESULTS - 01  
L1182730

Metals (ICP) by Method 6010B

Analyte	Result	RDL	Dilution	Analysis
	mg/kg	mg/kg		date / time
Thallium	ND	2.00	1	01/28/2020 01:23

1Cp

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Qualifier

Batch

[WG1417156](#)

1912719-002A 20191212C2TZM  
Collected date/time: 12/12/19 11:00

SAMPLE RESULTS - 02  
L1182730

Metals (ICP) by Method 6010B

	Result	RDL	Dilution	Analysis
Analyte	mg/kg	mg/kg		date / time
Thallium	ND	2.00	1	01/28/2020 01:26

- 1Cp
- 2Tc
- 3Ss
- 4Cn
- 5Sr
- 6Qc
- 7Gl
- 8Al
- 9Sc



1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Qualifier

Batch

[WG1417156](#)

1912719-003A 20191212C3TZM  
Collected date/time: 12/12/19 10:41

SAMPLE RESULTS - 03  
L1182730

Metals (ICP) by Method 6010B

	Result	RDL	Dilution	Analysis
Analyte	mg/kg	mg/kg		date / time
Thallium	ND	2.00	1	01/28/2020 01:29

Qualifier

Batch

[WG1417156](#)

1912719-004A 20191212C4TZM  
Collected date/time: 12/12/19 11:11

SAMPLE RESULTS - 04  
L1182730

Metals (ICP) by Method 6010B

	Result	RDL	Dilution	Analysis
Analyte	mg/kg	mg/kg		date / time
Thallium	ND	2.00	1	01/28/2020 01:31

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Qualifier

Batch

[WG1417156](#)

1912719-005A 20191212C5TZM  
Collected date/time: 12/12/19 11:25

SAMPLE RESULTS - 05  
L1182730

Metals (ICP) by Method 6010B

	Result	RDL	Dilution	Analysis
Analyte	mg/kg	mg/kg		date / time
Thallium	ND	2.00	1	01/28/2020 01:34

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Qualifier

Batch

[WG1417156](#)

1912719-006A 20191212C6TZM

Collected date/time: 12/12/19 12:00

SAMPLE RESULTS - 06

L1182730

Metals (ICP) by Method 6010B

Analyte	Result	RDL	Dilution	Analysis
	mg/kg	mg/kg		date / time
Thallium	ND	2.00	1	01/28/2020 01:37

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Qualifier

Batch

[WG1417156](#)

1912719-007A 20191212C7TZM  
Collected date/time: 12/12/19 12:10

SAMPLE RESULTS - 07  
L1182730

Metals (ICP) by Method 6010B

	Result	RDL	Dilution	Analysis
Analyte	mg/kg	mg/kg		date / time
Thallium	ND	2.00	1	01/28/2020 01:39

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Qualifier

Batch

[WG1417156](#)

1912719-008A 20191212C8TZM

Collected date/time: 12/12/19 12:15

SAMPLE RESULTS - 08

L1182730

Metals (ICP) by Method 6010B

	Result	RDL	Dilution	Analysis
Analyte	mg/kg	mg/kg		date / time
Thallium	ND	2.00	1	01/28/2020 01:42

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Qualifier

Batch

[WG1417156](#)

1912719-009A 20191212C9TZM

Collected date/time: 12/12/19 12:25

SAMPLE RESULTS - 09

L1182730

Metals (ICP) by Method 6010B

	Result	RDL	Dilution	Analysis
Analyte	mg/kg	mg/kg		date / time
Thallium	ND	2.00	1	01/28/2020 01:50

- 1Cp
- 2Tc
- 3Ss
- 4Cn
- 5Sr
- 6Qc
- 7Gl
- 8Al
- 9Sc

Qualifier

Batch

- 1Cp
- 2Tc
- 3Ss
- 4Cn
- 5Sr
- 6Qc
- 7Gl
- 8Al
- 9Sc

1912719-010A 20191212C10TZM  
Collected date/time: 12/12/19 12:34

SAMPLE RESULTS - 10  
L1182730

Metals (ICP) by Method 6010B

Analyte	Result	RDL	Dilution	Analysis
	mg/kg	mg/kg		date / time
Thallium	ND	2.00	1	01/28/2020 01:53

Qualifier

Batch

[WG1417156](#)

1912719-011A 20191212C11TZM  
Collected date/time: 12/12/19 12:43

SAMPLE RESULTS - 11  
L1182730

Metals (ICP) by Method 6010B

	Result	RDL	Dilution	Analysis
Analyte	mg/kg	mg/kg		date / time
Thallium	ND	2.00	1	01/28/2020 01:55

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Qualifier

Batch

[WG1417156](#)

1912719-012A 20191212C12TZM  
Collected date/time: 12/12/19 12:52

SAMPLE RESULTS - 12  
L1182730

Metals (ICP) by Method 6010B

Analyte	Result	RDL	Dilution	Analysis
Thallium	mg/kg	mg/kg		date / time
	ND	2.00	1	01/28/2020 01:58

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Qualifier	Batch
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[WG1417156](#)

1912719-013A 20191212C13TZM  
Collected date/time: 12/12/19 13:00

SAMPLE RESULTS - 13  
L1182730

Metals (ICP) by Method 6010B

Analyte	Result	RDL	Dilution	Analysis
	mg/kg	mg/kg		date / time
Thallium	ND	2.00	1	01/28/2020 02:01

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Qualifier

Batch

[WG1417156](#)

1912719-014A 20191212C14TZM  
Collected date/time: 12/12/19 13:03

SAMPLE RESULTS - 14  
L1182730

Metals (ICP) by Method 6010B

	Result	RDL	Dilution	Analysis
Analyte	mg/kg	mg/kg		date / time
Thallium	ND	2.00	1	01/28/2020 02:03

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Qualifier

Batch

[WG1417156](#)

1912719-015A 20191212C15TZM  
Collected date/time: 12/12/19 13:14

SAMPLE RESULTS - 15  
L1182730

Metals (ICP) by Method 6010B

Analyte	Result	RDL	Dilution	Analysis
Thallium	ND	2.00	1	01/28/2020 00:55

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Metals (ICP) by Method 6010B

Method Blank (MB)

(MB) R3494606-1 01/28/20 00:47			
	MB Result	<u>MB Qualifier</u>	MB MDL MB RDL
Analyte	mg/kg		mg/kg mg/kg
Thallium	U		0.650 2.00

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3494606-2 01/28/20 00:50 • (LCSD) R3494606-3 01/28/20 00:52									
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	%	%	%			% %
Thallium	100	92.6	93.2	92.6	93.2	80.0-120			0.702 20

L1182730-15 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1182730-15 01/28/20 00:55 • (MS) R3494606-6 01/28/20 01:02 • (MSD) R3494606-7 01/28/20 01:05											
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			% %
Thallium	100	ND	93.5	85.8	93.5	85.8	1	75.0-125			8.53 20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

GLOSSARY OF TERMS

ONE LAB. NATIONWIDE.



Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

**Tc** Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Re

Abbreviations and Definitions

1  
Cp

2 Results

3  
Ss



MDL	Method Detection Limit.	4
ND	Not detected at the Reporting Limit (or MDL where applicable).	Cn
RDL	Reported Detection Limit.	5
Rec.	Recovery.	Sr
RPD	Relative Percent Difference.	6
SDG	Sample Delivery Group.	Qc
U	Not detected at the Reporting Limit (or MDL where applicable).	
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.	8
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.	9
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.	
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.	
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.	
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.	
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.	
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.	
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.	
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.	
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.	
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.	

Qualifier	Description
-----------	-------------

Sc

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

ACCREDITATIONS & LOCATIONS

ONE LAB. NATIONWIDE.



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE. \* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

\* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico <sup>1</sup>	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky <sup>1 6</sup>	90010	South Carolina	84004
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1 4</sup>	2006
Louisiana <sup>1</sup>	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234

1

Cp

2

Tc

3

Ss

4

Cn

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Sr

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Qc

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Gl

8

Al

9

Sc

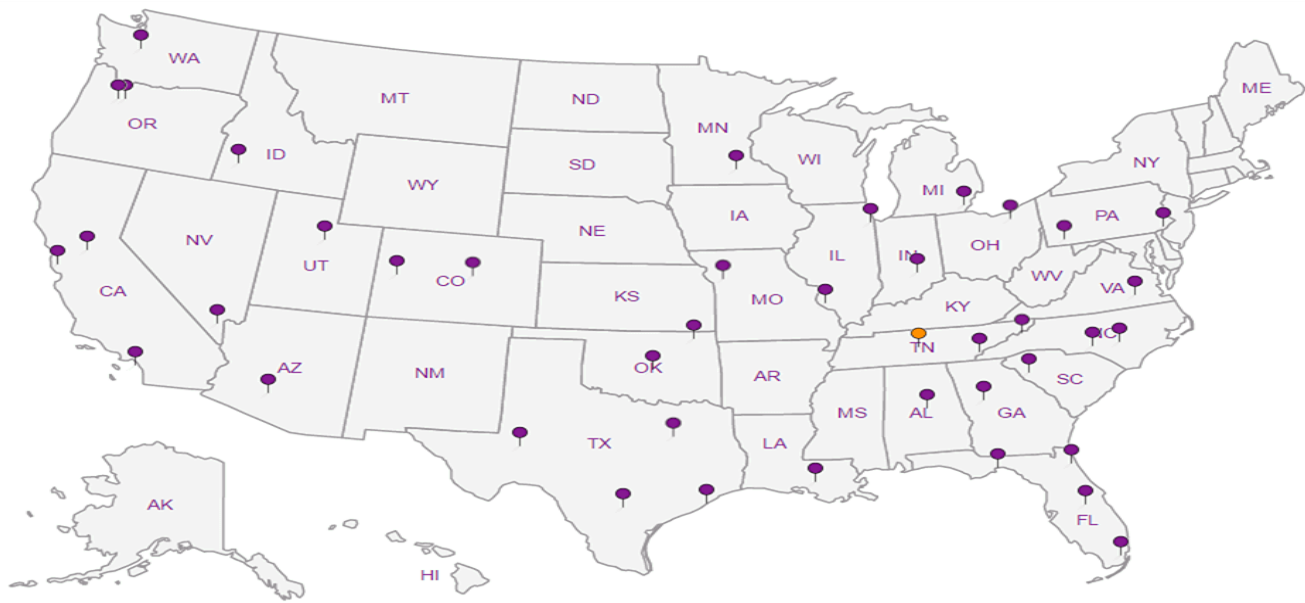
State Accreditations

EPA-Crypto                      TN00003

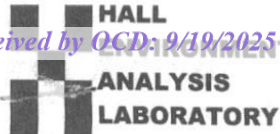
<sup>1</sup> Drinking Water   <sup>2</sup> Underground Storage Tanks   <sup>3</sup> Aquatic Toxicity   <sup>4</sup> Chemical/Microbiological   <sup>5</sup> Mold   <sup>6</sup> Wastewater   n/a Accreditation not applicable

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.







4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975  
FAX: 505-345-4107  
Website: www.hallenvironmental.com

D125

SUB CONTRACTOR: <b>ESC PACE</b>		COMPANY: <b>ESC PACE</b>		PHONE: <b>(800) 767-5859</b>		FAX: <b>(615) 758-5859</b>	
ADDRESS: <b>12065 Lebanon Rd</b>				ACCOUNT #:		EMAIL:	
CITY, STATE, ZIP: <b>Mt. Juliet, TN 37122</b>							

ITEM	SAMPLE	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION DATE	# CONTAINERS	ANALYTICAL COMMENTS
1	1912719-001A	20191212C1T2M	4OZGU	Soil	12/12/2019 10:29:00 AM	1	Total Thallium <i>L1182730-01</i>
2	1912719-002A	20191212C2T2M	4OZGU	Soil	12/12/2019 11:00:00 AM	1	Total Thallium <i>02</i>
3	1912719-003A	20191212C3T2M	4OZGU	Soil	12/12/2019 10:41:00 AM	1	Total Thallium <i>03</i>
4	1912719-004A	20191212C4T2M	4OZGU	Soil	12/12/2019 11:11:00 AM	1	Total Thallium <i>04</i>
5	1912719-005A	20191212C5T2M	4OZGU	Soil	12/12/2019 11:25:00 AM	1	Total Thallium <i>05</i>
6	1912719-006A	20191212C6T2M	4OZGU	Soil	12/12/2019 12:00:00 PM	1	Total Thallium <i>06</i>
7	1912719-007A	20191212C7T2M	4OZGU	Soil	12/12/2019 12:10:00 PM	1	Total Thallium <i>07</i>
8	1912719-008A	20191212C8T2M	4OZGU	Soil	12/12/2019 12:15:00 PM	1	Total Thallium <i>08</i>
9	1912719-009A	20191212C9T2M	4OZGU	Soil	12/12/2019 12:25:00 PM	1	Total Thallium <i>09</i>
10	1912719-010A	20191212C10T2M	4OZGU	Soil	12/12/2019 12:34:00 PM	1	Total Thallium <i>10</i>
11	1912719-011A	20191212C11T2M	4OZGU	Soil	12/12/2019 12:43:00 PM	1	Total Thallium <i>11</i>
12	1912719-012A	20191212C12T2M	4OZGU	Soil	12/12/2019 12:52:00 PM	1	Total Thallium <i>12</i>
13	1912719-013A	20191212C13T2M	4OZGU	Soil	12/12/2019 1:00:00 PM	1	Total Thallium <i>13</i>

## SPECIAL INSTRUCTIONS / COMMENTS:

Please include the LAB ID and the CLIENT SAMPLE ID on all final reports. Please e-mail results to lab@hallenvironmental.com. Please return all coolers and blue ice. Thank you.

Relinquished By: <i>LB</i>	Date: <i>1/23/2020</i>	Time: <i>11:08 AM</i>	Received By: <i>[Signature]</i>	Date: <i>1/24/2020</i>	Time: <i>9:00</i>	REPORT TRANSMITTAL DESIRED: <input type="checkbox"/> HARDCOPY (extra cost) <input type="checkbox"/> FAX <input type="checkbox"/> EMAIL <input type="checkbox"/> ONLINE  FOR LAB USE ONLY  Temp of samples <i>11-15.20°C</i> Attempt to Cool? <i>COOL</i> Comments: <i>RAD SCREEN: &lt;0.5 mR/hr</i>
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	
TAT: <i>4510 1669 2384</i> Standard <input type="checkbox"/> RUSH    Next BD <input type="checkbox"/> 2nd BD <input type="checkbox"/> 3rd BD <input type="checkbox"/>						

## CHAIN OF CUSTODY RECORD

PAGE: 2 OF: 2

Hall Environmental Analysis Laboratory  
 4901 Hawkins NE  
 Albuquerque, NM 87109  
 TEL: 505-345-3975  
 FAX: 505-345-4107  
 Website: www.hallenvironmental.com

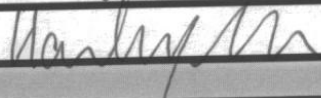
SUB CONTRACTOR: <b>ESC PACE</b>		COMPANY: <b>ESC PACE</b>		PHONE: <b>(800) 767-5859</b>		FAX: <b>(615) 758-5859</b>	
ADDRESS: <b>12065 Lebanon Rd</b>				ACCOUNT #:		EMAIL:	
CITY, STATE, ZIP: <b>Mt. Juliet, TN 37122</b>							

ITEM	SAMPLE	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION DATE	# CONTAINERS	ANALYTICAL COMMENTS
14	1912719-014A	20191212C14TZM	4OZGU	Soil	12/12/2019 1:03:00 PM	1	Total Thallium <i>L1182730-14</i>
15	1912719-015A	20191212C15TZM	4OZGU	Soil	12/12/2019 1:14:00 PM	1	Total Thallium <i>15</i>

## SPECIAL INSTRUCTIONS / COMMENTS:

Please include the LAB ID and the CLIENT SAMPLE ID on all final reports. Please e-mail results to lab@hallenvironmental.com. Please return all coolers and blue ice. Thank you.

Relinquished By: <i>LB</i>	Date: <i>1/23/2020</i>	Time: <i>11:08 AM</i>	Received By: <i>[Signature]</i>	Date: <i>12/12/2019</i>	Time: <i>9:00</i>	REPORT TRANSMITTAL DESIRED: <input type="checkbox"/> HARDCOPY (extra cost) <input type="checkbox"/> FAX <input type="checkbox"/> EMAIL <input type="checkbox"/> ONLINE  FOR LAB USE ONLY  Temp of samples <i>11-5 = 0.6 °C</i> Attempt to Cool? <i>COOL</i> Comments: <i>RAD SCREEN: &lt;0.5</i>
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	
TAT: <input checked="" type="radio"/> Standard <input type="radio"/> RUSH    Next BD <input type="checkbox"/> 2nd BD <input type="checkbox"/> 3rd BD <input type="checkbox"/>						

Pace Analytical National Center for Testing & Innovation Cooler Receipt Form				
Client:	HALLENVANM	L1182736		
Cooler Received/Opened On:	1/24/20	Temperature:	0.10	
Received By:	Hailey Melson			
Signature:				
Receipt Check List		NP	Yes	No
COC Seal Present / Intact?		/		
COC Signed / Accurate?			/	
Bottles arrive intact?			/	
Correct bottles used?			/	
Sufficient volume sent?			/	
If Applicable				
VOA Zero headspace?				
Preservation Correct / Checked?				



**QC SUMMARY REPORT**

WO#: 1912719

**Hall Environmental Analysis Laboratory, Inc.**

28-Jan-20

**Client:** Environmental Plus, Inc  
**Project:** EPI Treatment Zone Monitoring

Sample ID: <b>MB-49349</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>49349</b>	RunNo: <b>65195</b>								
Prep Date: <b>12/15/2019</b>	Analysis Date: <b>12/15/2019</b>	SeqNo: <b>2237827</b>		Units: <b>mg/Kg</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-49349</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>49349</b>	RunNo: <b>65195</b>								
Prep Date: <b>12/15/2019</b>	Analysis Date: <b>12/15/2019</b>	SeqNo: <b>2237828</b>		Units: <b>mg/Kg</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.7	90	110			

Sample ID: <b>MB-49353</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>49353</b>	RunNo: <b>65201</b>								
Prep Date: <b>12/16/2019</b>	Analysis Date: <b>12/16/2019</b>	SeqNo: <b>2239011</b>		Units: <b>mg/Kg</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-49353</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>49353</b>	RunNo: <b>65201</b>								
Prep Date: <b>12/16/2019</b>	Analysis Date: <b>12/16/2019</b>	SeqNo: <b>2239012</b>		Units: <b>mg/Kg</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.3	90	110			

Sample ID: <b>MB-49399</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>49399</b>	RunNo: <b>65234</b>								
Prep Date: <b>12/17/2019</b>	Analysis Date: <b>12/17/2019</b>	SeqNo: <b>2240756</b>		Units: <b>mg/Kg</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

**QC SUMMARY REPORT**

WO#: 1912719

**Hall Environmental Analysis Laboratory, Inc.**

28-Jan-20

**Client:** Environmental Plus, Inc**Project:** EPI Treatment Zone Monitoring

Sample ID: <b>LCS-49356</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>49356</b>	RunNo: <b>65222</b>								
Prep Date: <b>12/16/2019</b>	Analysis Date: <b>12/17/2019</b>	SeqNo: <b>2239165</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sample ID: <b>LCS-49399</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>49399</b>	RunNo: <b>65234</b>								
Prep Date: <b>12/17/2019</b>	Analysis Date: <b>12/17/2019</b>	SeqNo: <b>2240757</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.9	90	110			
Diesel Range Organics (DRO)	60	10	50.00	0	119	63.9	124			
Surr: DNOP	5.4		5.000		108	70	130			

Sample ID: <b>MB-49356</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>49356</b>	RunNo: <b>65222</b>								
Prep Date: <b>12/16/2019</b>	Analysis Date: <b>12/17/2019</b>	SeqNo: <b>2239167</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		106	70	130			

Sample ID: <b>LCS-49386</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>49386</b>	RunNo: <b>65247</b>								
Prep Date: <b>12/17/2019</b>	Analysis Date: <b>12/18/2019</b>	SeqNo: <b>2240533</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	58	10	50.00	0	117	63.9	124			
Surr: DNOP	5.4		5.000		108	70	130			

Sample ID: <b>MB-49386</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>49386</b>	RunNo: <b>65247</b>								
Prep Date: <b>12/17/2019</b>	Analysis Date: <b>12/18/2019</b>	SeqNo: <b>2240535</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

**QC SUMMARY REPORT**

WO#: 1912719

**Hall Environmental Analysis Laboratory, Inc.**

28-Jan-20

**Client:** Environmental Plus, Inc**Project:** EPI Treatment Zone Monitoring

Sample ID: <b>1912719-012AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>20191212C12TZM</b>	Batch ID: <b>49386</b>	RunNo: <b>65281</b>								
Prep Date: <b>12/17/2019</b>	Analysis Date: <b>12/19/2019</b>	SeqNo: <b>2243123</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	12		10.00		116	70	130			

Sample ID: <b>1912719-012AMS</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>20191212C12TZM</b>	Batch ID: <b>49386</b>	RunNo: <b>65281</b>								
Prep Date: <b>12/17/2019</b>	Analysis Date: <b>12/19/2019</b>	SeqNo: <b>2243122</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	110	19	47.98	50.49	128	57	142			
Surr: DNOP	5.2		4.798		109	70	130			
Diesel Range Organics (DRO)	63	20	48.92	50.49	25.9	57	142	55.7	20	RS
Surr: DNOP	4.8		4.892		97.8	70	130	0	0	

Sample ID: <b>LCS-49458</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>49458</b>	RunNo: <b>65352</b>								
Prep Date: <b>12/20/2019</b>	Analysis Date: <b>12/23/2019</b>	SeqNo: <b>2245266</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	10	50.00	0	102	63.9	124			
Surr: DNOP	4.4		5.000		87.1	70	130			

Sample ID: <b>MB-49458</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>49458</b>	RunNo: <b>65352</b>								
Prep Date: <b>12/20/2019</b>	Analysis Date: <b>12/23/2019</b>	SeqNo: <b>2245267</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.5		10.00		95.2	70	130			
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	860		1000		86.2	66.6	105			

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit



**QC SUMMARY REPORT**

WO#: 1912719

**Hall Environmental Analysis Laboratory, Inc.**

28-Jan-20

**Client:** Environmental Plus, Inc  
**Project:** EPI Treatment Zone Monitoring

Sample ID: <b>mb-49340</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>49340</b>	RunNo: <b>65197</b>								
Prep Date: <b>12/13/2019</b>	Analysis Date: <b>12/16/2019</b>	SeqNo: <b>2238427</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sample ID: <b>mb-49340</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>49340</b>	RunNo: <b>65197</b>								
Prep Date: <b>12/13/2019</b>	Analysis Date: <b>12/16/2019</b>	SeqNo: <b>2238470</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sample ID: <b>lcs-49340</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>49340</b>	RunNo: <b>65197</b>								
Prep Date: <b>12/13/2019</b>	Analysis Date: <b>12/16/2019</b>	SeqNo: <b>2238428</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	94.2	80	120			
Surr: BFB	930		1000		92.6	66.6	105			

Sample ID: <b>mb-49336</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>49336</b>	RunNo: <b>65198</b>								
Prep Date: <b>12/13/2019</b>	Analysis Date: <b>12/16/2019</b>	SeqNo: <b>2238493</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	860		1000		85.6	66.6	105			

Sample ID: <b>lcs-49336</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>49336</b>	RunNo: <b>65198</b>								
Prep Date: <b>12/13/2019</b>	Analysis Date: <b>12/16/2019</b>	SeqNo: <b>2238494</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	97.9	80	120			
Surr: BFB	870		1000		86.7	66.6	105			

Benzene ND 0.025

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

**QC SUMMARY REPORT**

WO#: 1912719

**Hall Environmental Analysis Laboratory, Inc.**

28-Jan-20

**Client:** Environmental Plus, Inc**Project:** EPI Treatment Zone Monitoring

Sample ID: <b>mb-49336</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>49336</b>	RunNo: <b>65198</b>								
Prep Date: <b>12/13/2019</b>	Analysis Date: <b>12/16/2019</b>	SeqNo: <b>2238525</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		102	80	120			

Sample ID: <b>LCS-49340</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>49340</b>	RunNo: <b>65197</b>								
Prep Date: <b>12/13/2019</b>	Analysis Date: <b>12/16/2019</b>	SeqNo: <b>2238471</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	91.7	80	120			
Toluene	0.94	0.050	1.000	0	93.7	80	120			
Ethylbenzene	0.95	0.050	1.000	0	94.9	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.4	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		103	80	120			

Sample ID: <b>1912719-005ams</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>20191212C5TZM</b>	Batch ID: <b>49340</b>	RunNo: <b>65197</b>								
Prep Date: <b>12/13/2019</b>	Analysis Date: <b>12/16/2019</b>	SeqNo: <b>2238473</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.81	0.023	0.9346	0	86.5	76	123			
Toluene	0.80	0.047	0.9346	0.009375	85.0	80.3	127			
Ethylbenzene	0.80	0.047	0.9346	0	85.6	80.2	131			
Xylenes, Total	2.4	0.093	2.804	0.01494	85.8	78	133			
Surr: 4-Bromofluorobenzene	0.86		0.9346		92.5	80	120			

Sample ID: <b>1912719-005amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>20191212C5TZM</b>	Batch ID: <b>49340</b>	RunNo: <b>65197</b>								
Prep Date: <b>12/13/2019</b>	Analysis Date: <b>12/16/2019</b>	SeqNo: <b>2238474</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.80	0.024	0.9718	0	82.4	76	123	1.04	20	
Toluene	0.81	0.049	0.9718	0.009375	82.7	80.3	127	1.09	20	
Ethylbenzene	0.81	0.049	0.9718	0	83.5	80.2	131	1.41	20	
Xylenes, Total	2.4	0.097	2.915	0.01494	83.3	78	133	0.914	20	
Surr: 4-Bromofluorobenzene	0.86		0.9718		88.4	80	120	0	0	

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

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## QC SUMMARY REPORT

WO#: 1912719

## Hall Environmental Analysis Laboratory, Inc.

28-Jan-20

Client: Environmental Plus, Inc  
Project: EPI Treatment Zone Monitoring

Benzene	ND	0.025				
Toluene	ND	0.050				
Ethylbenzene	ND	0.050				
Xylenes, Total	ND	0.10				
Surr: 4-Bromofluorobenzene	1.1		1.000	105	80	120

Sample ID: <b>LCS-49336</b>		SampType: <b>LCS</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>					
Client ID:	<b>LCSS</b>	Batch ID: <b>49336</b>			RunNo: <b>65198</b>					
Prep Date:	<b>12/13/2019</b>	Analysis Date: <b>12/16/2019</b>			SeqNo: <b>2238526</b>		Units: <b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.025	1.000	0	96.6	80	120			
Toluene	0.95	0.050	1.000	0	94.9	80	120			
Ethylbenzene	0.95	0.050	1.000	0	95.2	80	120			
Xylenes, Total	2.8	0.10	3.000	0	94.6	80	120			
Surr: 4-Bromofluorobenzene	0.92		1.000		91.8	80	120			

## Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

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**QC SUMMARY REPORT**

WO#: 1912719

**Hall Environmental Analysis Laboratory, Inc.**

28-Jan-20

**Client:** Environmental Plus, Inc**Project:** EPI Treatment Zone Monitoring

Sample ID: <b>MB-49440</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 7471: Mercury</b>								
Client ID: <b>PBS</b>	Batch ID: <b>49440</b>	RunNo: <b>65320</b>								
Prep Date: <b>12/19/2019</b>	Analysis Date: <b>12/20/2019</b>	SeqNo: <b>2243760</b>		Units: <b>mg/Kg</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.033								

Sample ID: <b>LLLCS-49440</b>	SampType: <b>LCSLL</b>	TestCode: <b>EPA Method 7471: Mercury</b>								
Client ID: <b>BatchQC</b>	Batch ID: <b>49440</b>	RunNo: <b>65320</b>								
Prep Date: <b>12/19/2019</b>	Analysis Date: <b>12/20/2019</b>	SeqNo: <b>2243762</b>		Units: <b>mg/Kg</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.033	0.006660	0	83.6	70	130			

Sample ID: <b>LCS-49440</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 7471: Mercury</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>49440</b>	RunNo: <b>65320</b>								
Prep Date: <b>12/19/2019</b>	Analysis Date: <b>12/20/2019</b>	SeqNo: <b>2243763</b>		Units: <b>mg/Kg</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.15	0.033	0.1667	0	92.5	80	120			

Sample ID: <b>1912719-013AMS</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 7471: Mercury</b>								
Client ID: <b>20191212C13TZM</b>	Batch ID: <b>49440</b>	RunNo: <b>65320</b>								
Prep Date: <b>12/19/2019</b>	Analysis Date: <b>12/20/2019</b>	SeqNo: <b>2243766</b>		Units: <b>mg/Kg</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.15	0.032	0.1594	0	91.5	80	120			

Sample ID: <b>1912719-013AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 7471: Mercury</b>								
Client ID: <b>20191212C13TZM</b>	Batch ID: <b>49440</b>	RunNo: <b>65320</b>								
Prep Date: <b>12/19/2019</b>	Analysis Date: <b>12/20/2019</b>	SeqNo: <b>2243767</b>		Units: <b>mg/Kg</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.15	0.033	0.1663	0	91.6	80	120	4.39	20	

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

**QC SUMMARY REPORT**

WO#: 1912719

**Hall Environmental Analysis Laboratory, Inc.**

28-Jan-20

**Client:** Environmental Plus, Inc  
**Project:** EPI Treatment Zone Monitoring

Sample ID: <b>LCSLL-49680</b>		SampType: <b>LCSLL</b>			TestCode: <b>EPA Method 7471: Mercury</b>					
Client ID: <b>BatchQC</b>	Batch ID: <b>49680</b>			RunNo: <b>65635</b>						
Prep Date: <b>1/7/2020</b>	Analysis Date: <b>1/8/2020</b>			SeqNo: <b>2254654</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Sample ID: <b>MB-49680</b>		SampType: <b>MBLK</b>			TestCode: <b>EPA Method 7471: Mercury</b>						
Client ID: <b>PBS</b>	Batch ID: <b>49680</b>			RunNo: <b>65635</b>							
Prep Date: <b>1/7/2020</b>	Analysis Date: <b>1/8/2020</b>			SeqNo: <b>2254653</b>		Units: <b>mg/Kg</b>				Result PQL SPK value SPK	
Analyte	Ref Val %REC LowLimit HighLimit										
								%RPD	RPDLimit	Qual	
Mercury	ND	0.033									
Mercury	ND	0.033	0.006660	0	99.9	70	130				

Sample ID: <b>LCS-49680</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 7471: Mercury</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>49680</b>	RunNo: <b>65635</b>								
Prep Date: <b>1/7/2020</b>	Analysis Date: <b>1/8/2020</b>	SeqNo: <b>2254655</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.16	0.033	0.1667	0	94.0	80	120			

Sample ID: <b>1912719-001AMS</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 7471: Mercury</b>								
Client ID: <b>20191212C1TZM</b>	Batch ID: <b>49680</b>	RunNo: <b>65635</b>								
Prep Date: <b>1/7/2020</b>	Analysis Date: <b>1/8/2020</b>	SeqNo: <b>2254657</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.18	0.033	0.1649	0.01642	97.0	80	120			

Sample ID: <b>1912719-001AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 7471: Mercury</b>								
Client ID: <b>20191212C1TZM</b>	Batch ID: <b>49680</b>	RunNo: <b>65635</b>								
Prep Date: <b>1/7/2020</b>	Analysis Date: <b>1/8/2020</b>	SeqNo: <b>2254658</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.18	0.033	0.1658	0.01642	97.3	80	120	0.830	20	
Antimony	ND	2.5								
Barium	ND	0.10								
Beryllium	ND	0.15								
Cadmium	ND	0.10								
Chromium	ND	0.30								
Copper	ND	0.30								
Iron	ND	2.5								

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

Page 23 of 28

**QC SUMMARY REPORT**

WO#: 1912719

**Hall Environmental Analysis Laboratory, Inc.**

28-Jan-20

**Client:** Environmental Plus, Inc**Project:** EPI Treatment Zone Monitoring

Sample ID: <b>MB-49414</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 6010B: Soil Metals</b>								
Client ID: <b>PBS</b>	Batch ID: <b>49414</b>	RunNo: <b>65434</b>								
Prep Date: <b>12/18/2019</b>	Analysis Date: <b>12/24/2019</b>	SeqNo: <b>2247694</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	ND	0.25								
Manganese	ND	0.10								
Silver	ND	0.25								
Zinc	ND	2.5								

Sample ID: <b>LCS-49414</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 6010B: Soil Metals</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>49414</b>	RunNo: <b>65434</b>								
Prep Date: <b>12/18/2019</b>	Analysis Date: <b>12/24/2019</b>	SeqNo: <b>2247696</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	24	2.5	25.00	0	94.9	80	120			
Barium	24	0.10	25.00	0	95.7	80	120			
Beryllium	24	0.15	25.00	0	96.1	80	120			
Cadmium	24	0.10	25.00	0	96.4	80	120			
Chromium	24	0.30	25.00	0	95.1	80	120			
Copper	26	0.30	25.00	0	104	80	120			
Iron	25	2.5	25.00	0	102	80	120			
Lead	25	0.25	25.00	0	100	80	120			
Manganese	24	0.10	25.00	0	96.6	80	120			
Silver	4.6	0.25	5.000	0	92.3	80	120			
Zinc	24	2.5	25.00	0	95.1	80	120			

Sample ID: <b>MB-49677</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 6010B: Soil Metals</b>								
Client ID: <b>PBS</b>	Batch ID: <b>49677</b>	RunNo: <b>65673</b>								
Prep Date: <b>1/7/2020</b>	Analysis Date: <b>1/9/2020</b>	SeqNo: <b>2255878</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	2.5								
Selenium	ND	2.5								
Arsenic	23	2.5	25.00	0	92.2	80	120			
Selenium	23	2.5	25.00	0	90.2	80	120			

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit



**QC SUMMARY REPORT**

WO#: 1912719

**Hall Environmental Analysis Laboratory, Inc.**

28-Jan-20

**Client:** Environmental Plus, Inc**Project:** EPI Treatment Zone Monitoring

Sample ID: <b>LCS-49677</b>			SampType: <b>LCS</b>			TestCode: <b>EPA Method 6010B: Soil Metals</b>					
Client ID: <b>LCSS</b>		Batch ID: <b>49677</b>			RunNo: <b>65673</b>						
Prep Date: <b>1/7/2020</b>		Analysis Date: <b>1/9/2020</b>			SeqNo: <b>2255882</b>		Units: <b>mg/Kg</b>				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Sample ID: <b>1912719-001AMS</b>			SampType: <b>MS</b>			TestCode: <b>EPA Method 6010B: Soil Metals</b>					
Client ID: <b>20191212C1T2M</b>		Batch ID: <b>49677</b>			RunNo: <b>65673</b>						
Prep Date: <b>1/7/2020</b>		Analysis Date: <b>1/9/2020</b>			SeqNo: <b>2255884</b>		Units: <b>mg/Kg</b>				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	26	5.1	25.46	0	104	75	125	Selenium	23	5.1	25.46
0	89.7	75	125								

Sample ID: <b>1912719-001AMSD</b>		SampType: <b>MSD</b>		TestCode: <b>EPA Method 6010B: Soil Metals</b>							
Client ID: <b>20191212C1T2M</b>		Batch ID: <b>49677</b>		RunNo: <b>65673</b>							
Prep Date: <b>1/7/2020</b>		Analysis Date: <b>1/9/2020</b>		SeqNo: <b>2255885</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Arsenic	25	5.1	25.29	0	97.7	75	125	6.57	20		
Selenium	23	5.1	25.29	0	90.5	75	125	0.197	20		

Sample ID: <b>MB-49677</b>		SampType: <b>MBLK</b>			TestCode: <b>EPA Method 6010B: Soil Metals</b>						
Client ID: <b>PBS</b>		Batch ID: <b>49677</b>			RunNo: <b>65673</b>						
Prep Date: <b>1/7/2020</b>		Analysis Date: <b>1/9/2020</b>			SeqNo: <b>2255982</b>			Units: <b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Iron	ND 2.5										
Lead	ND 0.25										

Sample ID: <b>LCS-49677</b>		SampType: <b>LCS</b>		TestCode: <b>EPA Method 6010B: Soil Metals</b>							
Client ID: <b>LCSS</b>		Batch ID: <b>49677</b>		RunNo: <b>65673</b>							
Prep Date: <b>1/7/2020</b>		Analysis Date: <b>1/9/2020</b>		SeqNo: <b>2255984</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Iron	26	2.5	25.00	0	104	80	120	Lead	25	0.25	25.00
100	80	120									

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

**QC SUMMARY REPORT**

WO#: 1912719

**Hall Environmental Analysis Laboratory, Inc.**

28-Jan-20

**Client:** Environmental Plus, Inc  
**Project:** EPI Treatment Zone Monitoring

Sample ID: <b>1912719-001AMS</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 6010B: Soil Metals</b>								
Client ID: <b>20191212C1T2M</b>	Batch ID: <b>49677</b>	RunNo: <b>65673</b>								
Prep Date: <b>1/7/2020</b>	Analysis Date: <b>1/9/2020</b>	SeqNo: <b>2256014</b>		Units: <b>mg/Kg</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sample ID: <b>1912719-001AMS</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 6010B: Soil Metals</b>								
Client ID: <b>20191212C1T2M</b>	Batch ID: <b>49677</b>	RunNo: <b>65673</b>								
Prep Date: <b>1/7/2020</b>	Analysis Date: <b>1/9/2020</b>	SeqNo: <b>2256014</b>		Units: <b>mg/Kg</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	27	0.51	25.46	1.630	98.9	75	125			

Sample ID: <b>1912719-001AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 6010B: Soil Metals</b>								
Client ID: <b>20191212C1T2M</b>	Batch ID: <b>49677</b>	RunNo: <b>65673</b>								
Prep Date: <b>1/7/2020</b>	Analysis Date: <b>1/9/2020</b>	SeqNo: <b>2256015</b>		Units: <b>mg/Kg</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	27	0.51	25.29	1.630	101	75	125	1.36	20	

Sample ID: <b>MB-49677</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 6010B: Soil Metals</b>								
Client ID: <b>PBS</b>	Batch ID: <b>49677</b>	RunNo: <b>65705</b>								
Prep Date: <b>1/7/2020</b>	Analysis Date: <b>1/10/2020</b>	SeqNo: <b>2256821</b>		Units: <b>mg/Kg</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	ND	2.5								
Barium	ND	0.10								
Beryllium	ND	0.15								
Cadmium	ND	0.10								
Chromium	ND	0.30								
Manganese	0.17	0.10								
Silver	ND	0.25								
Zinc	ND	2.5								

Sample ID: <b>LCS-49677</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 6010B: Soil Metals</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>49677</b>	RunNo: <b>65705</b>								
Prep Date: <b>1/7/2020</b>	Analysis Date: <b>1/10/2020</b>	SeqNo: <b>2256823</b>		Units: <b>mg/Kg</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	24	2.5	25.00	0	97.7	80	120			
Barium	25	0.10	25.00	0	99.3	80	120			

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

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**QC SUMMARY REPORT**

WO#: 1912719

**Hall Environmental Analysis Laboratory, Inc.**

28-Jan-20

**Client:** Environmental Plus, Inc**Project:** EPI Treatment Zone Monitoring

Beryllium	25	0.15	25.00	0	102	80	120	
Cadmium	25	0.10	25.00	0	99.2	80	120	
Chromium	25	0.30	25.00	0	98.6	80	120	
Manganese	25	0.10	25.00	0	98.2	80	120	B
Silver	5.0	0.25	5.000	0	100	80	120	
Zinc	24	2.5	25.00	0	97.3	80	120	
Antimony	10	5.1	25.46	0	39.8	75	125	S
Barium	69	0.20	25.46	39.80	113	75	125	
Beryllium	27	0.31	25.46	0.2290	105	75	125	
Cadmium	26	0.20	25.46	0	102	75	125	
Chromium	33	0.61	25.46	5.094	110	75	125	
Manganese	74	0.20	25.46	50.56	92.5	75	125	
Silver	4.8	0.51	5.092	0	94.1	75	125	
Zinc	39	5.1	25.46	12.64	105	75	125	

Sample ID: <b>1912719-001AMSD</b>		SampType: <b>MSD</b>		TestCode: <b>EPA Method 6010B: Soil Metals</b>						
Client ID: <b>20191212C1TZM</b>		Batch ID: <b>49677</b>		RunNo: <b>65705</b>						
Prep Date: <b>1/7/2020</b>		Analysis Date: <b>1/10/2020</b>		SeqNo: <b>2256845</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	11	5.1	25.29	0	44.6	75	125	10.7	20	S
Barium	90	0.20	25.29	39.80	199	75	125	26.9	20	R S
Beryllium	27	0.30	25.29	0.2290	104	75	125	1.23	20	
Cadmium	26	0.20	25.29	0	101	75	125	1.03	20	
Chromium	31	0.61	25.29	5.094	101	75	125	7.35	20	
Manganese	74	0.20	25.29	50.56	91.0	75	125	0.726	20	
Silver	4.8	0.51	5.057	0	94.2	75	125	0.535	20	
Zinc	37	5.1	25.29	12.64	98.0	75	125	4.98	20	

Sample ID: <b>MB-49792</b>		SampType: <b>MBLK</b>		TestCode: <b>EPA Method 6010B: Soil Metals</b>						
Client ID: <b>PBS</b>		Batch ID: <b>49792</b>		RunNo: <b>65839</b>						
Prep Date: <b>1/14/2020</b>		Analysis Date: <b>1/15/2020</b>		SeqNo: <b>2261118</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

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## QC SUMMARY REPORT

WO#: 1912719

## Hall Environmental Analysis Laboratory, Inc.

28-Jan-20

Client: Environmental Plus, Inc

Project: EPI Treatment Zone Monitoring

Sample ID: 1912719-001AMS	SampType: MS	TestCode: EPA Method 6010B: Soil Metals
Client ID: 20191212C1TZM	Batch ID: 49677	RunNo: 65705
Prep Date: 1/7/2020	Analysis Date: 1/10/2020	SeqNo: 2256842 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Sample ID: 1912719-001AMS	SampType: MS	TestCode: EPA Method 6010B: Soil Metals
Client ID: 20191212C1TZM	Batch ID: 49792	RunNo: 65839
Prep Date: 1/14/2020	Analysis Date: 1/15/2020	SeqNo: 2261125 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Copper	0.39 0.30	Silver ND 0.25

Sample ID: LCS-49792	SampType: LCS	TestCode: EPA Method 6010B: Soil Metals
Client ID: LCSS	Batch ID: 49792	RunNo: 65839
Prep Date: 1/14/2020	Analysis Date: 1/15/2020	SeqNo: 2261120 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Copper	26	0.30 25.00 0 102 80 120 B
Silver	4.9	0.25 5.000 0 97.1 80 120
Copper	27	0.59 24.62 2.089 103 75 125

Sample ID: 1912719-001AMSD	SampType: MSD	TestCode: EPA Method 6010B: Soil Metals
Client ID: 20191212C1TZM	Batch ID: 49792	RunNo: 65839
Prep Date: 1/14/2020	Analysis Date: 1/15/2020	SeqNo: 2261126 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Copper	31	0.60 25.05 2.089 114 75 125 11.6 20

## Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: www.hallenvironmental.com

## Sample Log-In Check List

Client Name: **ENVIRONMENTAL PLUS**Work Order Number: **1912719**

RcptNo: 1

Received By: **Yazmine Garduno**

12/13/2019 9:05:00 AM

*Yazmine Garduno*Completed By: **Yazmine Garduno**

12/13/2019 10:50:48 AM

*Yazmine Garduno*Reviewed By: *LB**12/13/19*

### Chain of Custody

1. Is Chain of Custody sufficiently complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

### Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace  $<1/4"$  for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes ☒ No ☐

# of preserved  
bottles checked  
for pH:

( $<2$  or  $>12$  unless noted)

Adjusted? \_\_\_\_\_

Checked by: *ENM 12/13/19*

### Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: \_\_\_\_\_

Date: \_\_\_\_\_

By Whom: \_\_\_\_\_

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: \_\_\_\_\_

Client Instructions: \_\_\_\_\_

16. Additional remarks:

### 17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.1	Good				
2	5.0	Good				







## Chain-of-Custody Record

Client: EPI Landfarm

Mailing Address:

Phone #: 575.631.1667email or Fax#: mccasland67@msn.com

QA/QC Package:

☒ Standard☐ Level 4 (Full Validation)Accreditation: ☐ Az Compliance☐ NELAC ☐ Other☐ EDD (Type)

Turn-Around Time:

☒ Standard ☐ Rush

Project Name:

EPI Treatment Zone Monitoring

Project #:

Project Manager:

Pat McCasland

Sampler:

On Ice: ☒ Yes ☐ No# of Coolers: 2Cooler Temp (including CP): 42-01-41Cooler Temp (including CP): 51-01-50

Container Type and #

Preservative Type

HEAL No.

4gn-2 Ice-013-014-015

Date

Time

Matrix

Sample Name

12/19 1:005042 20191212C13T2M1:035 20191212C14T2M1:145 20191212C15T2M

Date:

Time:

Relinquished by:

12/19 4:05Pat McCasland

Date:

Time:

Relinquished by:

12/19 1900Pat McCasland

Received by:

Date

Time

12/19 1605Pat McCasland

Received by:

Date

Time

12/19 0905Pat McCasland

Remarks:

Metals: Sb, As, Ba, Bi, Cd, Cr, Pb, Ti, Hg, Se, Mn, Cu, Fe, Ni, Zn.EPA-6010Bon 6020

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

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HALL ENVIRONMENTAL  
ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

## Analysis Request

TPH:8015D(GRO / DRO / MRO) ☒

MTBE / TMBs (8021) ☒

8081 Pesticides/8082 PCBs ☐

EDB (Method 504.1) ☐

PAHs by 8310 or 8270SIMS ☐

RCRA Metals ☒ See Below

Cl<sup>-</sup>, Br<sup>-</sup>, NO<sub>3</sub><sup>-</sup>, PO<sub>4</sub><sup>3-</sup>, SO<sub>4</sub><sup>2-</sup> ☒

8260 (VOA) ☐

8270 (Semi-VOA) ☐

Total Coliform (Present/Absent) ☒



**Analytical Report**Lab Order **2001058****Hall Environmental Analysis Laboratory, Inc.**

January 09, 2020

Pat McCasland

Environmental Plus, Inc

PO Box 1558

Eunice, NM 88231

TEL: (575) 631-1667

FAX

Date Reported: 1/9/2020

Hall Environmental Analysis Laboratory

4901 Hawkins NE

Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

RE: EPI Background Samples

OrderNo.: 2001058

Dear Pat McCasland:

Hall Environmental Analysis Laboratory received 12 sample(s) on 1/3/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert

#NM0901 Sincerely,

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
H	Holding times for preparation or analysis exceeded			J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit			P	Sample pH Not In Range
PQL	Practical Quantitative Limit			RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix				

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## Analytical Report

Lab Order 2001058

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/9/2020



Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

CLIENT: Environmental Plus, Inc

Project: EPI Background Samples

Lab ID: 2001058-001

Matrix: SOIL

Client Sample ID: BG East S

Collection Date: 12/30/2019 4:26:00 PM

Received Date: 1/3/2020 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	1/8/2020 12:44:40 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	1/8/2020 12:44:40 PM
Surr: DNOP	125	55.1-146		%Rec	1	1/8/2020 12:44:40 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/6/2020 9:05:20 PM
Surr: BFB	82.9	66.6-105		%Rec	1	1/6/2020 9:05:20 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.023		mg/Kg	1	1/6/2020 9:05:20 PM
Toluene	ND	0.047		mg/Kg	1	1/6/2020 9:05:20 PM
Ethylbenzene	ND	0.047		mg/Kg	1	1/6/2020 9:05:20 PM
Xylenes, Total	ND	0.093		mg/Kg	1	1/6/2020 9:05:20 PM
Surr: 4-Bromofluorobenzene	97.0	80-120		%Rec	1	1/6/2020 9:05:20 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>MRA</b>
Chloride	ND	60		mg/Kg	20	1/6/2020 6:30:25 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Limit	
	S	% Recovery outside of range due to dilution or matrix			

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## Analytical Report

Lab Order 2001058

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/9/2020

CLIENT: Environmental Plus, Inc

Client Sample ID: BG East N

Project: EPI Background Samples

Collection Date: 12/30/2019 4:50:00 PM

Lab ID: 2001058-002

Matrix: SOIL

Received Date: 1/3/2020 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	1/8/2020 1:06:50 PM
Motor Oil Range Organics (MRO)	52	49		mg/Kg	1	1/8/2020 1:06:50 PM
Surr: DNOP	105	55.1-146		%Rec	1	1/8/2020 1:06:50 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/6/2020 9:28:38 PM
Surr: BFB	84.4	66.6-105		%Rec	1	1/6/2020 9:28:38 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.023		mg/Kg	1	1/6/2020 9:28:38 PM
Toluene	ND	0.047		mg/Kg	1	1/6/2020 9:28:38 PM
Ethylbenzene	ND	0.047		mg/Kg	1	1/6/2020 9:28:38 PM
Xylenes, Total	ND	0.094		mg/Kg	1	1/6/2020 9:28:38 PM
Surr: 4-Bromofluorobenzene	100	80-120		%Rec	1	1/6/2020 9:28:38 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>MRA</b>
Chloride	ND	60		mg/Kg	20	1/6/2020 6:42:46 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Limit	
	S	% Recovery outside of range due to dilution or matrix			

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## Analytical Report

Lab Order 2001058

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/9/2020

CLIENT: Environmental Plus, Inc

Client Sample ID: BG Center E

Project: EPI Background Samples

Collection Date: 12/31/2019 8:15:00 AM

Lab ID: 2001058-003

Matrix: SOIL

Received Date: 1/3/2020 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	1/7/2020 11:50:12 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/7/2020 11:50:12 AM
Surr: DNOP	88.6	70-130		%Rec	1	1/7/2020 11:50:12 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/6/2020 9:51:50 PM
Surr: BFB	79.2	66.6-105		%Rec	1	1/6/2020 9:51:50 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	1/6/2020 9:51:50 PM
Toluene	ND	0.048		mg/Kg	1	1/6/2020 9:51:50 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/6/2020 9:51:50 PM
Xylenes, Total	ND	0.096		mg/Kg	1	1/6/2020 9:51:50 PM
Surr: 4-Bromofluorobenzene	93.3	80-120		%Rec	1	1/6/2020 9:51:50 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>MRA</b>
Chloride	ND	60		mg/Kg	20	1/6/2020 6:55:06 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded		J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit		P	Sample pH Not In Range
	PQL	Practical Quantitative Limit		RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix			



## Analytical Report

Lab Order 2001058

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/9/2020

CLIENT: Environmental Plus, Inc

Client Sample ID: BG North E

Project: EPI Background Samples

Collection Date: 12/31/2019 9:15:00 AM

Lab ID: 2001058-004

Matrix: SOIL

Received Date: 1/3/2020 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	1/7/2020 11:59:20 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/7/2020 11:59:20 AM
Surr: DNOP	91.7	70-130		%Rec	1	1/7/2020 11:59:20 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/6/2020 10:15:02 PM
Surr: BFB	80.8	66.6-105		%Rec	1	1/6/2020 10:15:02 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	1/6/2020 10:15:02 PM
Toluene	ND	0.048		mg/Kg	1	1/6/2020 10:15:02 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/6/2020 10:15:02 PM
Xylenes, Total	ND	0.096		mg/Kg	1	1/6/2020 10:15:02 PM
Surr: 4-Bromofluorobenzene	95.0	80-120		%Rec	1	1/6/2020 10:15:02 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>MRA</b>
Chloride	ND	60		mg/Kg	20	1/6/2020 7:07:27 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Limit	
	S	% Recovery outside of range due to dilution or matrix			

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## Analytical Report

Lab Order 2001058

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/9/2020

CLIENT: Environmental Plus, Inc

Client Sample ID: BG North C

Project: EPI Background Samples

Collection Date: 12/31/2019 9:33:00 AM

Lab ID: 2001058-005

Matrix: SOIL

Received Date: 1/3/2020 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	1/7/2020 12:08:29 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/7/2020 12:08:29 PM
Surr: DNOP	97.1	70-130		%Rec	1	1/7/2020 12:08:29 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/6/2020 10:38:13 PM
Surr: BFB	79.5	66.6-105		%Rec	1	1/6/2020 10:38:13 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	1/6/2020 10:38:13 PM
Toluene	ND	0.048		mg/Kg	1	1/6/2020 10:38:13 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/6/2020 10:38:13 PM
Xylenes, Total	ND	0.096		mg/Kg	1	1/6/2020 10:38:13 PM
Surr: 4-Bromofluorobenzene	93.6	80-120		%Rec	1	1/6/2020 10:38:13 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>MRA</b>
Chloride	ND	60		mg/Kg	20	1/6/2020 7:19:49 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded		J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit		P	Sample pH Not In Range
	PQL	Practical Quantitative Limit		RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix			

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## Analytical Report

Lab Order 2001058

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/9/2020

CLIENT: Environmental Plus, Inc

Client Sample ID: BG North W

Project: EPI Background Samples

Collection Date: 12/31/2019 10:12:00 AM

Lab ID: 2001058-006

Matrix: SOIL

Received Date: 1/3/2020 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	1/7/2020 12:17:37 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/7/2020 12:17:37 PM
Surr: DNOP	92.5	70-130		%Rec	1	1/7/2020 12:17:37 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/6/2020 11:01:21 PM
Surr: BFB	78.3	66.6-105		%Rec	1	1/6/2020 11:01:21 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	1/6/2020 11:01:21 PM
Toluene	ND	0.049		mg/Kg	1	1/6/2020 11:01:21 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/6/2020 11:01:21 PM
Xylenes, Total	ND	0.098		mg/Kg	1	1/6/2020 11:01:21 PM
Surr: 4-Bromofluorobenzene	91.9	80-120		%Rec	1	1/6/2020 11:01:21 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>MRA</b>
Chloride	ND	60		mg/Kg	20	1/6/2020 7:32:09 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Limit	
	S	% Recovery outside of range due to dilution or matrix			

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## Analytical Report

Lab Order 2001058

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/9/2020

CLIENT: Environmental Plus, Inc

Client Sample ID: BG North WW

Project: EPI Background Samples

Collection Date: 12/31/2019 10:35:00 AM

Lab ID: 2001058-007

Matrix: SOIL

Received Date: 1/3/2020 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	1/7/2020 12:26:52 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/7/2020 12:26:52 PM
Surr: DNOP	104	70-130		%Rec	1	1/7/2020 12:26:52 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/6/2020 11:24:27 PM
Surr: BFB	80.4	66.6-105		%Rec	1	1/6/2020 11:24:27 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	1/6/2020 11:24:27 PM
Toluene	ND	0.047		mg/Kg	1	1/6/2020 11:24:27 PM
Ethylbenzene	ND	0.047		mg/Kg	1	1/6/2020 11:24:27 PM
Xylenes, Total	ND	0.094		mg/Kg	1	1/6/2020 11:24:27 PM
Surr: 4-Bromofluorobenzene	94.1	80-120		%Rec	1	1/6/2020 11:24:27 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>MRA</b>
Chloride	ND	60		mg/Kg	20	1/6/2020 8:09:11 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Limit	
	S	% Recovery outside of range due to dilution or matrix			

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## Analytical Report

Lab Order 2001058

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/9/2020

CLIENT: Environmental Plus, Inc

Client Sample ID: BG West N

Project: EPI Background Samples

Collection Date: 12/31/2019 10:50:00 AM

Lab ID: 2001058-008

Matrix: SOIL

Received Date: 1/3/2020 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	1/7/2020 12:36:08 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/7/2020 12:36:08 PM
Surr: DNOP	91.0	70-130		%Rec	1	1/7/2020 12:36:08 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/6/2020 11:47:33 PM
Surr: BFB	79.6	66.6-105		%Rec	1	1/6/2020 11:47:33 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	1/6/2020 11:47:33 PM
Toluene	ND	0.048		mg/Kg	1	1/6/2020 11:47:33 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/6/2020 11:47:33 PM
Xylenes, Total	ND	0.096		mg/Kg	1	1/6/2020 11:47:33 PM
Surr: 4-Bromofluorobenzene	93.5	80-120		%Rec	1	1/6/2020 11:47:33 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>MRA</b>
Chloride	ND	60		mg/Kg	20	1/6/2020 9:10:56 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Limit	
	S	% Recovery outside of range due to dilution or matrix			

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## Analytical Report

Lab Order 2001058

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/9/2020

CLIENT: Environmental Plus, Inc

Client Sample ID: BG West S

Project: EPI Background Samples

Collection Date: 12/31/2019 11:09:00 AM

Lab ID: 2001058-009

Matrix: SOIL

Received Date: 1/3/2020 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	1/7/2020 1:31:04 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	1/7/2020 1:31:04 PM
Surr: DNOP	128	70-130		%Rec	1	1/7/2020 1:31:04 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/7/2020 12:10:39 AM
Surr: BFB	81.1	66.6-105		%Rec	1	1/7/2020 12:10:39 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	1/7/2020 12:10:39 AM
Toluene	ND	0.050		mg/Kg	1	1/7/2020 12:10:39 AM
Ethylbenzene	ND	0.050		mg/Kg	1	1/7/2020 12:10:39 AM
Xylenes, Total	ND	0.099		mg/Kg	1	1/7/2020 12:10:39 AM
Surr: 4-Bromofluorobenzene	95.2	80-120		%Rec	1	1/7/2020 12:10:39 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	ND	60		mg/Kg	20	1/6/2020 8:49:30 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Limit	
	S	% Recovery outside of range due to dilution or matrix			

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## Analytical Report

Lab Order 2001058

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/9/2020

CLIENT: Environmental Plus, Inc

Client Sample ID: BG South E

Project: EPI Background Samples

Collection Date: 12/31/2019 11:22:00 AM

Lab ID: 2001058-010

Matrix: SOIL

Received Date: 1/3/2020 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	1/7/2020 1:58:35 PM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	1/7/2020 1:58:35 PM
Surr: DNOP	115	70-130		%Rec	1	1/7/2020 1:58:35 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/7/2020 9:52:07 AM
Surr: BFB	89.4	66.6-105		%Rec	1	1/7/2020 9:52:07 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	1/7/2020 9:52:07 AM
Toluene	ND	0.049		mg/Kg	1	1/7/2020 9:52:07 AM
Ethylbenzene	ND	0.049		mg/Kg	1	1/7/2020 9:52:07 AM
Xylenes, Total	ND	0.098		mg/Kg	1	1/7/2020 9:52:07 AM
Surr: 4-Bromofluorobenzene	105	80-120		%Rec	1	1/7/2020 9:52:07 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	ND	60		mg/Kg	20	1/6/2020 9:26:44 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Limit	
	S	% Recovery outside of range due to dilution or matrix			

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## Analytical Report

Lab Order 2001058

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/9/2020

CLIENT: Environmental Plus, Inc

Client Sample ID: BG South W

Project: EPI Background Samples

Collection Date: 12/31/2019 11:32:00 AM

Lab ID: 2001058-011

Matrix: SOIL

Received Date: 1/3/2020 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	1/8/2020 1:29:06 PM
Motor Oil Range Organics (MRO)	49	47		mg/Kg	1	1/8/2020 1:29:06 PM
Surr: DNOP	142	55.1-146		%Rec	1	1/8/2020 1:29:06 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/7/2020 11:08:57 AM
Surr: BFB	80.4	66.6-105		%Rec	1	1/7/2020 11:08:57 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	1/7/2020 11:08:57 AM
Toluene	ND	0.049		mg/Kg	1	1/7/2020 11:08:57 AM
Ethylbenzene	ND	0.049		mg/Kg	1	1/7/2020 11:08:57 AM
Xylenes, Total	ND	0.097		mg/Kg	1	1/7/2020 11:08:57 AM
Surr: 4-Bromofluorobenzene	93.0	80-120		%Rec	1	1/7/2020 11:08:57 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	ND	60		mg/Kg	20	1/6/2020 10:03:57 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Limit	
	S	% Recovery outside of range due to dilution or matrix			

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## Analytical Report

Lab Order 2001058

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/9/2020

CLIENT: Environmental Plus, Inc

Client Sample ID: BG Center W

Project: EPI Background Samples

Collection Date: 12/31/2019 8:50:00 AM

Lab ID: 2001058-012

Matrix: SOIL

Received Date: 1/3/2020 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	1/7/2020 2:16:57 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	1/7/2020 2:16:57 PM
Surr: DNOP	75.2	70-130		%Rec	1	1/7/2020 2:16:57 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/7/2020 12:19:28 PM
Surr: BFB	90.4	66.6-105		%Rec	1	1/7/2020 12:19:28 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	1/7/2020 12:19:28 PM
Toluene	ND	0.048		mg/Kg	1	1/7/2020 12:19:28 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/7/2020 12:19:28 PM
Xylenes, Total	ND	0.096		mg/Kg	1	1/7/2020 12:19:28 PM
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	1/7/2020 12:19:28 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	91	60		mg/Kg	20	1/6/2020 10:16:22 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded		J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit		P	Sample pH Not In Range
	PQL	Practical Quantitative Limit		RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix			

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**QC SUMMARY REPORT**

WO#: 2001058

**Hall Environmental Analysis Laboratory, Inc.**

09-Jan-20

**Client:** Environmental Plus, Inc**Project:** EPI Background Samples

Sample ID: <b>MB-49656</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>49656</b>	RunNo: <b>65598</b>								
Prep Date: <b>1/6/2020</b>	Analysis Date: <b>1/6/2020</b>	SeqNo: <b>2253202</b>		Units: <b>mg/Kg</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-49656</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>49656</b>	RunNo: <b>65598</b>								
Prep Date: <b>1/6/2020</b>	Analysis Date: <b>1/6/2020</b>	SeqNo: <b>2253203</b>		Units: <b>mg/Kg</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.6	90	110			

Sample ID: <b>MB-49642</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>49642</b>	RunNo: <b>65601</b>								
Prep Date: <b>1/6/2020</b>	Analysis Date: <b>1/6/2020</b>	SeqNo: <b>2253254</b>		Units: <b>mg/Kg</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-49642</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>49642</b>	RunNo: <b>65601</b>								
Prep Date: <b>1/6/2020</b>	Analysis Date: <b>1/6/2020</b>	SeqNo: <b>2253255</b>		Units: <b>mg/Kg</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.7	90	110			

Sample ID: <b>MB-49645</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>49645</b>	RunNo: <b>65601</b>								
Prep Date: <b>1/6/2020</b>	Analysis Date: <b>1/6/2020</b>	SeqNo: <b>2253284</b>		Units: <b>mg/Kg</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

**QC SUMMARY REPORT**

WO#: 2001058

**Hall Environmental Analysis Laboratory, Inc.**

09-Jan-20

**Client:** Environmental Plus, Inc**Project:** EPI Background Samples

Sample ID: <b>2001058-009AMS</b>		SampType: <b>MS</b>			TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>						
Client ID:	<b>BG West S</b>	Batch ID: <b>49647</b>			RunNo: <b>65612</b>						
Prep Date:	<b>1/6/2020</b>	Analysis Date: <b>1/7/2020</b>			SeqNo: <b>2253774</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Sample ID: <b>LCS-49645</b>		SampType: <b>lcs</b>			TestCode: <b>EPA Method 300.0: Anions</b>						
Client ID:	<b>LCSS</b>	Batch ID: <b>49645</b>			RunNo: <b>65601</b>						
Prep Date:	<b>1/6/2020</b>	Analysis Date: <b>1/6/2020</b>			SeqNo: <b>2253285</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride	14	1.5	15.00	0	92.4	90	110				
Diesel Range Organics (DRO)	46	9.8	48.78	2.321	89.9	57	142				
Surr: DNOP	4.5		4.878		93.2	70	130				

Sample ID: <b>2001058-009AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>									
Client ID: <b>BG West S</b>	Batch ID: <b>49647</b>	RunNo: <b>65612</b>									
Prep Date: <b>1/6/2020</b>	Analysis Date: <b>1/7/2020</b>	SeqNo: <b>2253775</b>		Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	33	9.7	48.45	2.321	63.9	57	142	32.4	20	R	
Surr: DNOP	3.1		4.845		63.4	70	130	0	0	S	

Sample ID: <b>LCS-49627</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>									
Client ID: <b>LCSS</b>	Batch ID: <b>49627</b>	RunNo: <b>65612</b>									
Prep Date: <b>1/6/2020</b>	Analysis Date: <b>1/7/2020</b>	SeqNo: <b>2253783</b>		Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	50	10	50.00	0	99.2	63.9	124				
Surr: DNOP	4.6		5.000		92.9	70	130				

Sample ID: <b>LCS-49646</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>									
Client ID: <b>LCSS</b>	Batch ID: <b>49646</b>	RunNo: <b>65612</b>									
Prep Date: <b>1/6/2020</b>	Analysis Date: <b>1/7/2020</b>	SeqNo: <b>2253784</b>		Units: <b>%Rec</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: DNOP	5.3		5.000		106	70	130				

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit



**QC SUMMARY REPORT**

WO#: 2001058

**Hall Environmental Analysis Laboratory, Inc.**

09-Jan-20

**Client:** Environmental Plus, Inc**Project:** EPI Background Samples

Sample ID: <b>MB-49627</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>49627</b>	RunNo: <b>65612</b>								
Prep Date: <b>1/6/2020</b>	Analysis Date: <b>1/7/2020</b>	SeqNo: <b>2253786</b>		Units: <b>mg/Kg</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sample ID: <b>LCS-49647</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>49647</b>	RunNo: <b>65612</b>								
Prep Date: <b>1/6/2020</b>	Analysis Date: <b>1/7/2020</b>	SeqNo: <b>2253785</b>		Units: <b>mg/Kg</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	55	10	50.00	0	111	63.9	124			
Surr: DNOP	5.3		5.000		106	70	130			

Sample ID: <b>MB-49627</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>49627</b>	RunNo: <b>65612</b>								
Prep Date: <b>1/6/2020</b>	Analysis Date: <b>1/7/2020</b>	SeqNo: <b>2253786</b>		Units: <b>mg/Kg</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		104	70	130			

Sample ID: <b>MB-49647</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>49647</b>	RunNo: <b>65612</b>								
Prep Date: <b>1/6/2020</b>	Analysis Date: <b>1/7/2020</b>	SeqNo: <b>2253787</b>		Units: <b>mg/Kg</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		105	70	130			
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	880		1000		87.6	66.6	105			

Sample ID: <b>lcs-49623</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>49623</b>	RunNo: <b>65589</b>								
Prep Date: <b>1/3/2020</b>	Analysis Date: <b>1/6/2020</b>	SeqNo: <b>2252861</b>		Units: <b>mg/Kg</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	94.8	80	120			

**Qualifiers:**

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

**QC SUMMARY REPORT**

WO#: 2001058

**Hall Environmental Analysis Laboratory, Inc.**

09-Jan-20

**Client:** Environmental Plus, Inc  
**Project:** EPI Background Samples

Sample ID: <b>mb-49623</b>		SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>						
Client ID: <b>PBS</b>		Batch ID: <b>49623</b>		RunNo: <b>65589</b>						
Prep Date: <b>1/3/2020</b>		Analysis Date: <b>1/6/2020</b>		SeqNo: <b>2252860</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	970		1000		97.1	66.6	105			

Sample ID: <b>mb-49633</b>		SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8015D: Gasoline Range</b>					
Client ID: <b>PBS</b>		Batch ID: <b>49633</b>			RunNo: <b>65619</b>					
Prep Date: <b>1/6/2020</b>		Analysis Date: <b>1/7/2020</b>			SeqNo: <b>2254007</b>		Units: <b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		99.8	66.6	105			

Sample ID: <b>lcs-49633</b>		SampType: <b>LCS</b>			TestCode: <b>EPA Method 8015D: Gasoline Range</b>						
Client ID: <b>LCSS</b>		Batch ID: <b>49633</b>			RunNo: <b>65619</b>						
Prep Date: <b>1/6/2020</b>		Analysis Date: <b>1/7/2020</b>			SeqNo: <b>2254008</b>		Units: <b>mg/Kg</b>				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)		24	5.0	25.00	0	95.2	80	120			
Surr: BFB		1000		1000		103	66.6	105			

Sample ID: <b>2001058-010ams</b>		SampType: <b>MS</b>			TestCode: <b>EPA Method 8015D: Gasoline Range</b>					
Client ID: <b>BG South E</b>	Batch ID: <b>49633</b>			RunNo: <b>65619</b>						
Prep Date: <b>1/6/2020</b>	Analysis Date: <b>1/7/2020</b>			SeqNo: <b>2254010</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	24.93	0	92.3	69.1	142			
Surr: BFB	1000		997.0		102	66.6	105			

Sample ID: 2001058-010amsd		SampType: MSD			TestCode: EPA Method 8015D: Gasoline Range					
Client ID: BG South E		Batch ID: 49633			RunNo: 65619					
Prep Date: 1/6/2020		Analysis Date: 1/7/2020			SeqNo: 2254011		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

**Qualifiers:**

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2001058

09-Jan-20

Client: Environmental Plus, Inc

Project: EPI Background Samples

Sample ID: 2001058-010amsd		SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range						
Client ID: BG South E		Batch ID: 49633		RunNo: 65619						
Prep Date: 1/6/2020		Analysis Date: 1/7/2020		SeqNo: 2254011		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.9	24.68	0	90.2	69.1	142	3.27	20	
Surr: BFB	970		987.2		98.1	66.6	105	0	0	

Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

**QC SUMMARY REPORT**

WO#: 2001058

**Hall Environmental Analysis Laboratory, Inc.**

09-Jan-20

**Client:** Environmental Plus, Inc**Project:** EPI Background Samples

Sample ID: <b>mb-49623</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>49623</b>	RunNo: <b>65589</b>								
Prep Date: <b>1/3/2020</b>	Analysis Date: <b>1/6/2020</b>	SeqNo: <b>2252889</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		99.9	80	120			

Sample ID: <b>LCS-49623</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>49623</b>	RunNo: <b>65589</b>								
Prep Date: <b>1/3/2020</b>	Analysis Date: <b>1/6/2020</b>	SeqNo: <b>2252890</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	95.4	80	120			
Toluene	0.95	0.050	1.000	0	95.1	80	120			
Ethylbenzene	0.94	0.050	1.000	0	93.7	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.0	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		103	80	120			

Sample ID: <b>mb-49633</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>49633</b>	RunNo: <b>65619</b>								
Prep Date: <b>1/6/2020</b>	Analysis Date: <b>1/7/2020</b>	SeqNo: <b>2254034</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.2		1.000		116	80	120			

**Qualifiers:**

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not In Range
PQL Practical Quantitative Limit	RL Reporting Limit
S % Recovery outside of range due to dilution or matrix	



**QC SUMMARY REPORT**

WO#: 2001058

**Hall Environmental Analysis Laboratory, Inc.**

09-Jan-20

**Client:** Environmental Plus, Inc**Project:** EPI Background Samples

Sample ID: <b>2001058-011ams</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>BG South W</b>	Batch ID: <b>49633</b>	RunNo: <b>65619</b>								
Prep Date: <b>1/6/2020</b>	Analysis Date: <b>1/7/2020</b>	SeqNo: <b>2254038</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sample ID: <b>LCS-49633</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>49633</b>	RunNo: <b>65619</b>								
Prep Date: <b>1/6/2020</b>	Analysis Date: <b>1/7/2020</b>	SeqNo: <b>2254035</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	90.8	80	120			
Toluene	0.93	0.050	1.000	0	92.5	80	120			
Ethylbenzene	0.92	0.050	1.000	0	91.8	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.7	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		113	80	120			

Benzene	0.87	0.023	0.9381	0	92.9	78.5	119			
Toluene	0.89	0.047	0.9381	0.01365	93.4	75.7	123			
Ethylbenzene	0.88	0.047	0.9381	0	93.8	74.3	126			
Xylenes, Total	2.7	0.094	2.814	0.01764	93.9	72.9	130			
Surr: 4-Bromofluorobenzene	0.90		0.9381		95.6	80	120			

Sample ID: <b>2001058-011amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>BG South W</b>	Batch ID: <b>49633</b>	RunNo: <b>65619</b>								
Prep Date: <b>1/6/2020</b>	Analysis Date: <b>1/7/2020</b>	SeqNo: <b>2254039</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.024	0.9643	0	91.5	78.5	119	1.21	20	
Toluene	0.91	0.048	0.9643	0.01365	92.8	75.7	123	2.07	20	
Ethylbenzene	0.90	0.048	0.9643	0	93.4	74.3	126	2.31	20	
Xylenes, Total	2.8	0.096	2.893	0.01764	94.5	72.9	130	3.40	20	
Surr: 4-Bromofluorobenzene	0.92		0.9643		95.4	80	120	0	0	

**Qualifiers:**

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: www.hallenvironmental.com

## Sample Log-In Check List

Client Name: ENVIRONMENTAL PLUS

Work Order Number: 2001058

RcptNo: 1

Received By: Yazmine Garduno

1/3/2020 9:00:00 AM

Completed By: Isaiah Ortiz

1/3/2020 11:31:22 AM

Reviewed By: IO

01/03/2020

Yazmine Garduno

IOX

Chain of Custody

1. Is Chain of Custody sufficiently complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace  $<1/4"$  for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes ☒ No ☐

# of preserved  
bottles checked  
for pH:

(<2 or >12 unless noted)

Adjusted? \_\_\_\_\_

Checked by

Y6 1/3/20

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:		Date:	
By Whom:		Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:			
Client Instructions:			

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.8	Good	Not Present			





**Analytical Report**Lab Order **2001435****Hall Environmental Analysis Laboratory, Inc.**

January 28, 2020

Pat McCasland

Environmental Plus, Inc

PO Box 1558

Eunice, NM 88231

TEL: (575) 631-1667

FAX

Date Reported: 1/28/2020

Hall Environmental Analysis Laboratory

4901 Hawkins NE

Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

RE: EPI Vadose Zone Monitoring

OrderNo.: 2001435

Dear Pat McCasland:

Hall Environmental Analysis Laboratory received 61 sample(s) on 1/11/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert

#NM0901 Sincerely,

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded		J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit		P	Sample pH Not In Range
	PQL	Practical Quantitative Limit		RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix			

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## Analytical Report

Lab Order 2001435

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/28/2020



Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

CLIENT: Environmental Plus, Inc

Project: EPI Vadose Zone Monitoring

Lab ID: 2001435-001

Matrix: SOIL

Client Sample ID: 20200108C1VZ SW

Collection Date: 1/8/2020 9:10:00 AM

Received Date: 1/11/2020 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	1/14/2020 4:01:50 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/14/2020 4:01:50 PM
Surr: DNOP	93.3	55.1-146		%Rec	1	1/14/2020 4:01:50 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/15/2020 2:51:55 AM
Surr: BFB	88.8	66.6-105		%Rec	1	1/15/2020 2:51:55 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	1/15/2020 2:51:55 AM
Toluene	ND	0.049		mg/Kg	1	1/15/2020 2:51:55 AM
Ethylbenzene	ND	0.049		mg/Kg	1	1/15/2020 2:51:55 AM
Xylenes, Total	ND	0.098		mg/Kg	1	1/15/2020 2:51:55 AM
Surr: 4-Bromofluorobenzene	93.7	80-120		%Rec	1	1/15/2020 2:51:55 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	ND	60		mg/Kg	20	1/15/2020 11:26:57 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded		J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit		P	Sample pH Not In Range
	PQL	Practical Quantitative Limit		RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix			

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## Analytical Report

Lab Order 2001435

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/28/2020

CLIENT: Environmental Plus, Inc

Client Sample ID: 20200108C1VZ SE

Project: EPI Vadose Zone Monitoring

Collection Date: 1/8/2020 9:18:00 AM

Lab ID: 2001435-002

Matrix: SOIL

Received Date: 1/11/2020 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	1/14/2020 4:11:05 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/14/2020 4:11:05 PM
Surr: DNOP	95.4	55.1-146		%Rec	1	1/14/2020 4:11:05 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/15/2020 3:14:45 AM
Surr: BFB	88.3	66.6-105		%Rec	1	1/15/2020 3:14:45 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	1/15/2020 3:14:45 AM
Toluene	ND	0.049		mg/Kg	1	1/15/2020 3:14:45 AM
Ethylbenzene	ND	0.049		mg/Kg	1	1/15/2020 3:14:45 AM
Xylenes, Total	ND	0.097		mg/Kg	1	1/15/2020 3:14:45 AM
Surr: 4-Bromofluorobenzene	93.1	80-120		%Rec	1	1/15/2020 3:14:45 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	ND	60		mg/Kg	20	1/15/2020 11:39:19 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded		J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit		P	Sample pH Not In Range
	PQL	Practical Quantitative Limit		RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix			

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## Analytical Report

Lab Order 2001435

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/28/2020

CLIENT: Environmental Plus, Inc

Client Sample ID: 20200108C1VZ NE

Project: EPI Vadose Zone Monitoring

Collection Date: 1/8/2020 9:24:00 AM

Lab ID: 2001435-003

Matrix: SOIL

Received Date: 1/11/2020 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	1/15/2020 8:44:25 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/15/2020 8:44:25 AM
Surr: DNOP	147	55.1-146	S	%Rec	1	1/15/2020 8:44:25 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/15/2020 3:37:33 AM
Surr: BFB	88.7	66.6-105		%Rec	1	1/15/2020 3:37:33 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	1/15/2020 3:37:33 AM
Toluene	ND	0.049		mg/Kg	1	1/15/2020 3:37:33 AM
Ethylbenzene	ND	0.049		mg/Kg	1	1/15/2020 3:37:33 AM
Xylenes, Total	ND	0.099		mg/Kg	1	1/15/2020 3:37:33 AM
Surr: 4-Bromofluorobenzene	92.7	80-120		%Rec	1	1/15/2020 3:37:33 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	120	60		mg/Kg	20	1/15/2020 11:51:40 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Limit	
	S	% Recovery outside of range due to dilution or matrix			

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## Analytical Report

Lab Order 2001435

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/28/2020

CLIENT: Environmental Plus, Inc

Client Sample ID: 20200108C1VZ NW

Project: EPI Vadose Zone Monitoring

Collection Date: 1/8/2020 9:31:00 AM

Lab ID: 2001435-004

Matrix: SOIL

Received Date: 1/11/2020 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	1/15/2020 9:11:40 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/15/2020 9:11:40 AM
Surr: DNOP	159	55.1-146	S	%Rec	1	1/15/2020 9:11:40 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/14/2020 11:51:06 PM
Surr: BFB	80.2	66.6-105		%Rec	1	1/14/2020 11:51:06 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	1/14/2020 11:51:06 PM
Toluene	ND	0.048		mg/Kg	1	1/14/2020 11:51:06 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/14/2020 11:51:06 PM
Xylenes, Total	ND	0.097		mg/Kg	1	1/14/2020 11:51:06 PM
Surr: 4-Bromofluorobenzene	91.0	80-120		%Rec	1	1/14/2020 11:51:06 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	78	60		mg/Kg	20	1/15/2020 12:28:45 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Limit	
	S	% Recovery outside of range due to dilution or matrix			

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## Analytical Report

Lab Order 2001435

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/28/2020

CLIENT: Environmental Plus, Inc

Client Sample ID: 20200108C1VZ COMP

Project: EPI Vadose Zone Monitoring

Collection Date: 1/8/2020 9:31:00 AM

Lab ID: 2001435-005

Matrix: SOIL

Received Date: 1/11/2020 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 7471: MERCURY</b>						Analyst: <b>rde</b>
Mercury	ND	0.033		mg/Kg	1	1/13/2020 4:38:22 PM
<b>EPA METHOD 6010B: SOIL METALS</b>						Analyst: <b>ELS</b>
Antimony	ND	5.1		mg/Kg	2	1/22/2020 9:20:01 AM
Arsenic	ND	5.1		mg/Kg	2	1/20/2020 2:37:12 PM
Barium	320	0.20		mg/Kg	2	1/20/2020 2:37:12 PM
Beryllium	ND	0.30		mg/Kg	2	1/15/2020 5:35:06 PM
Cadmium	ND	0.20		mg/Kg	2	1/15/2020 5:35:06 PM
Chromium	3.0	0.61		mg/Kg	2	1/15/2020 5:35:06 PM
Copper	1.4	0.61		mg/Kg	2	1/15/2020 5:35:06 PM
Iron	3300	250		mg/Kg	100	1/15/2020 6:11:13 PM
Lead	ND	0.51		mg/Kg	2	1/15/2020 5:35:06 PM
Manganese	22	0.20		mg/Kg	2	1/15/2020 5:35:06 PM
Selenium	ND	5.1		mg/Kg	2	1/20/2020 2:37:12 PM
Silver	2.6	0.51		mg/Kg	2	1/15/2020 5:35:06 PM
Zinc	6.0	5.1		mg/Kg	2	1/15/2020 5:35:06 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Limit	
	S	% Recovery outside of range due to dilution or matrix			

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## Analytical Report

Lab Order 2001435

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/28/2020

CLIENT: Environmental Plus, Inc

Client Sample ID: 20200108C2VZ SW

Project: EPI Vadose Zone Monitoring

Collection Date: 1/8/2020 9:39:00 AM

Lab ID: 2001435-006

Matrix: SOIL

Received Date: 1/11/2020 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	1/15/2020 9:20:42 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/15/2020 9:20:42 AM
Surr: DNOP	81.5	55.1-146		%Rec	1	1/15/2020 9:20:42 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/15/2020 12:14:41 AM
Surr: BFB	81.9	66.6-105		%Rec	1	1/15/2020 12:14:41 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	1/15/2020 12:14:41 AM
Toluene	ND	0.047		mg/Kg	1	1/15/2020 12:14:41 AM
Ethylbenzene	ND	0.047		mg/Kg	1	1/15/2020 12:14:41 AM
Xylenes, Total	ND	0.095		mg/Kg	1	1/15/2020 12:14:41 AM
Surr: 4-Bromofluorobenzene	93.6	80-120		%Rec	1	1/15/2020 12:14:41 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	ND	60		mg/Kg	20	1/15/2020 1:05:49 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Limit	
	S	% Recovery outside of range due to dilution or matrix			

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## Analytical Report

Lab Order 2001435

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/28/2020

CLIENT: Environmental Plus, Inc

Client Sample ID: 20200108C2VZ SE

Project: EPI Vadose Zone Monitoring

Collection Date: 1/8/2020 9:48:00 AM

Lab ID: 2001435-007

Matrix: SOIL

Received Date: 1/11/2020 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	1/15/2020 9:29:43 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/15/2020 9:29:43 AM
Surr: DNOP	112	55.1-146		%Rec	1	1/15/2020 9:29:43 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/15/2020 12:38:14 AM
Surr: BFB	79.2	66.6-105		%Rec	1	1/15/2020 12:38:14 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	1/15/2020 12:38:14 AM
Toluene	ND	0.050		mg/Kg	1	1/15/2020 12:38:14 AM
Ethylbenzene	ND	0.050		mg/Kg	1	1/15/2020 12:38:14 AM
Xylenes, Total	ND	0.099		mg/Kg	1	1/15/2020 12:38:14 AM
Surr: 4-Bromofluorobenzene	90.0	80-120		%Rec	1	1/15/2020 12:38:14 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	96	60		mg/Kg	20	1/15/2020 1:18:09 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Limit	
	S	% Recovery outside of range due to dilution or matrix			

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## Analytical Report

Lab Order 2001435

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/28/2020

CLIENT: Environmental Plus, Inc

Client Sample ID: 20200108C2VZ NE

Project: EPI Vadose Zone Monitoring

Collection Date: 1/8/2020 9:54:00 AM

Lab ID: 2001435-008

Matrix: SOIL

Received Date: 1/11/2020 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	1/15/2020 9:38:45 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/15/2020 9:38:45 AM
Surr: DNOP	119	55.1-146		%Rec	1	1/15/2020 9:38:45 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/15/2020 1:01:47 AM
Surr: BFB	84.0	66.6-105		%Rec	1	1/15/2020 1:01:47 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	1/15/2020 1:01:47 AM
Toluene	ND	0.048		mg/Kg	1	1/15/2020 1:01:47 AM
Ethylbenzene	ND	0.048		mg/Kg	1	1/15/2020 1:01:47 AM
Xylenes, Total	ND	0.095		mg/Kg	1	1/15/2020 1:01:47 AM
Surr: 4-Bromofluorobenzene	95.3	80-120		%Rec	1	1/15/2020 1:01:47 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	ND	60		mg/Kg	20	1/15/2020 1:30:31 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Limit	
	S	% Recovery outside of range due to dilution or matrix			

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## Analytical Report

Lab Order 2001435

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/28/2020

CLIENT: Environmental Plus, Inc

Client Sample ID: 20200108C2VZ NW

Project: EPI Vadose Zone Monitoring

Collection Date: 1/8/2020 10:10:00 AM

Lab ID: 2001435-009

Matrix: SOIL

Received Date: 1/11/2020 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	1/15/2020 9:47:51 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/15/2020 9:47:51 AM
Surr: DNOP	96.4	55.1-146		%Rec	1	1/15/2020 9:47:51 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/15/2020 1:25:19 AM
Surr: BFB	85.5	66.6-105		%Rec	1	1/15/2020 1:25:19 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	1/15/2020 1:25:19 AM
Toluene	ND	0.047		mg/Kg	1	1/15/2020 1:25:19 AM
Ethylbenzene	ND	0.047		mg/Kg	1	1/15/2020 1:25:19 AM
Xylenes, Total	ND	0.095		mg/Kg	1	1/15/2020 1:25:19 AM
Surr: 4-Bromofluorobenzene	97.8	80-120		%Rec	1	1/15/2020 1:25:19 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	70	60		mg/Kg	20	1/15/2020 1:42:52 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Limit	
	S	% Recovery outside of range due to dilution or matrix			

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## Analytical Report

Lab Order 2001435

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/28/2020

CLIENT: Environmental Plus, Inc

Client Sample ID: 20200108C2VZ COMP

Project: EPI Vadose Zone Monitoring

Collection Date: 1/8/2020 10:10:00 AM

Lab ID: 2001435-010

Matrix: SOIL

Received Date: 1/11/2020 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 7471: MERCURY</b>						Analyst: rde
Mercury	ND	0.033		mg/Kg	1	1/13/2020 4:40:23 PM
<b>EPA METHOD 6010B: SOIL METALS</b>						Analyst: rde
Antimony	ND	5.1		mg/Kg	2	1/15/2020 5:39:54 PM
Arsenic	ND	5.1		mg/Kg	2	1/20/2020 2:43:18 PM
Barium	170	0.20		mg/Kg	2	1/15/2020 5:39:54 PM
Beryllium	0.37	0.30		mg/Kg	2	1/15/2020 5:39:54 PM
Cadmium	ND	0.20		mg/Kg	2	1/15/2020 5:39:54 PM
Chromium	5.1	0.61		mg/Kg	2	1/15/2020 5:39:54 PM
Copper	3.0	0.61		mg/Kg	2	1/15/2020 5:39:54 PM
Iron	6100	250		mg/Kg	100	1/15/2020 6:12:46 PM
Lead	0.75	0.51		mg/Kg	2	1/15/2020 5:39:54 PM
Manganese	74	0.20		mg/Kg	2	1/15/2020 5:39:54 PM
Selenium	ND	5.1		mg/Kg	2	1/20/2020 2:43:18 PM
Silver	0.85	0.51		mg/Kg	2	1/15/2020 5:39:54 PM
Zinc	13	5.1		mg/Kg	2	1/15/2020 5:39:54 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Limit	
	S	% Recovery outside of range due to dilution or matrix			

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## Analytical Report

Lab Order 2001435

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/28/2020

CLIENT: Environmental Plus, Inc

Client Sample ID: 20200108C3VZ S

Project: EPI Vadose Zone Monitoring

Collection Date: 1/8/2020 11:27:00 AM

Lab ID: 2001435-011

Matrix: SOIL

Received Date: 1/11/2020 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	1/15/2020 9:56:57 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	1/15/2020 9:56:57 AM
Surr: DNOP	131	55.1-146		%Rec	1	1/15/2020 9:56:57 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/15/2020 1:48:47 AM
Surr: BFB	81.8	66.6-105		%Rec	1	1/15/2020 1:48:47 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	1/15/2020 1:48:47 AM
Toluene	ND	0.049		mg/Kg	1	1/15/2020 1:48:47 AM
Ethylbenzene	ND	0.049		mg/Kg	1	1/15/2020 1:48:47 AM
Xylenes, Total	ND	0.098		mg/Kg	1	1/15/2020 1:48:47 AM
Surr: 4-Bromofluorobenzene	93.6	80-120		%Rec	1	1/15/2020 1:48:47 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	130	59		mg/Kg	20	1/15/2020 1:55:12 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Limit	
	S	% Recovery outside of range due to dilution or matrix			

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## Analytical Report

Lab Order 2001435

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/28/2020

CLIENT: Environmental Plus, Inc

Client Sample ID: 20200108C3VZ N

Project: EPI Vadose Zone Monitoring

Collection Date: 1/8/2020 11:35:00 AM

Lab ID: 2001435-012

Matrix: SOIL

Received Date: 1/11/2020 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	1/15/2020 10:06:03 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/15/2020 10:06:03 AM
Surr: DNOP	114	55.1-146		%Rec	1	1/15/2020 10:06:03 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/15/2020 2:12:16 AM
Surr: BFB	82.3	66.6-105		%Rec	1	1/15/2020 2:12:16 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	1/15/2020 2:12:16 AM
Toluene	ND	0.049		mg/Kg	1	1/15/2020 2:12:16 AM
Ethylbenzene	ND	0.049		mg/Kg	1	1/15/2020 2:12:16 AM
Xylenes, Total	ND	0.099		mg/Kg	1	1/15/2020 2:12:16 AM
Surr: 4-Bromofluorobenzene	93.7	80-120		%Rec	1	1/15/2020 2:12:16 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	ND	60		mg/Kg	20	1/15/2020 2:07:33 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Limit	
	S	% Recovery outside of range due to dilution or matrix			

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## Analytical Report

Lab Order 2001435

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/28/2020

CLIENT: Environmental Plus, Inc

Client Sample ID:20200108C3VZ COMP

Project: EPI Vadose Zone Monitoring

Collection Date:1/8/2020 11:35:00 AM

Lab ID: 2001435-013

Matrix: SOIL

Received Date:1/11/2020 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 7471: MERCURY</b>						Analyst: rde
Mercury	ND	0.033		mg/Kg	1	1/13/2020 4:42:24 PM
<b>EPA METHOD 6010B: SOIL METALS</b>						Analyst: rde
Antimony	ND	5.1		mg/Kg	2	1/15/2020 5:41:28 PM
Arsenic	ND	5.1		mg/Kg	2	1/20/2020 2:44:50 PM
Barium	420	0.20		mg/Kg	2	1/15/2020 5:41:28 PM
Beryllium	ND	0.30		mg/Kg	2	1/15/2020 5:41:28 PM
Cadmium	ND	0.20		mg/Kg	2	1/15/2020 5:41:28 PM
Chromium	2.2	0.61		mg/Kg	2	1/15/2020 5:41:28 PM
Copper	2.0	0.61		mg/Kg	2	1/15/2020 5:41:28 PM
Iron	2600	250		mg/Kg	100	1/15/2020 6:21:27 PM
Lead	ND	0.51		mg/Kg	2	1/15/2020 5:41:28 PM
Manganese	20	0.20		mg/Kg	2	1/15/2020 5:41:28 PM
Selenium	ND	5.1		mg/Kg	2	1/20/2020 2:44:50 PM
Silver	2.6	0.51		mg/Kg	2	1/15/2020 5:41:28 PM
Zinc	ND	5.1		mg/Kg	2	1/15/2020 5:41:28 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Limit	
	S	% Recovery outside of range due to dilution or matrix			

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## Analytical Report

Lab Order 2001435

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/28/2020

CLIENT: Environmental Plus, Inc

Client Sample ID: 20200108C4VZ SE

Project: EPI Vadose Zone Monitoring

Collection Date: 1/8/2020 11:49:00 AM

Lab ID: 2001435-014

Matrix: SOIL

Received Date: 1/11/2020 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	1/15/2020 10:15:11 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/15/2020 10:15:11 AM
Surr: DNOP	65.1	55.1-146		%Rec	1	1/15/2020 10:15:11 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/15/2020 2:35:40 AM
Surr: BFB	78.2	66.6-105		%Rec	1	1/15/2020 2:35:40 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	1/15/2020 2:35:40 AM
Toluene	ND	0.050		mg/Kg	1	1/15/2020 2:35:40 AM
Ethylbenzene	ND	0.050		mg/Kg	1	1/15/2020 2:35:40 AM
Xylenes, Total	ND	0.099		mg/Kg	1	1/15/2020 2:35:40 AM
Surr: 4-Bromofluorobenzene	89.6	80-120		%Rec	1	1/15/2020 2:35:40 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	ND	60		mg/Kg	20	1/15/2020 2:19:54 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Limit	
	S	% Recovery outside of range due to dilution or matrix			

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## Analytical Report

Lab Order 2001435

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/28/2020

CLIENT: Environmental Plus, Inc

Client Sample ID: 20200108C4VZ SW

Project: EPI Vadose Zone Monitoring

Collection Date: 1/8/2020 11:54:00 AM

Lab ID: 2001435-015

Matrix: SOIL

Received Date: 1/11/2020 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	1/15/2020 10:25:50 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/15/2020 10:25:50 AM
Surr: DNOP	104	55.1-146		%Rec	1	1/15/2020 10:25:50 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/15/2020 2:59:05 AM
Surr: BFB	78.5	66.6-105		%Rec	1	1/15/2020 2:59:05 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	1/15/2020 2:59:05 AM
Toluene	ND	0.049		mg/Kg	1	1/15/2020 2:59:05 AM
Ethylbenzene	ND	0.049		mg/Kg	1	1/15/2020 2:59:05 AM
Xylenes, Total	ND	0.098		mg/Kg	1	1/15/2020 2:59:05 AM
Surr: 4-Bromofluorobenzene	88.7	80-120		%Rec	1	1/15/2020 2:59:05 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	ND	60		mg/Kg	20	1/15/2020 2:56:57 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Limit	
	S	% Recovery outside of range due to dilution or matrix			

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## Analytical Report

Lab Order 2001435

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/28/2020

CLIENT: Environmental Plus, Inc

Client Sample ID: 20200108C4VZ NW

Project: EPI Vadose Zone Monitoring

Collection Date: 1/8/2020 2:47:00 PM

Lab ID: 2001435-016

Matrix: SOIL

Received Date: 1/11/2020 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	1/15/2020 10:34:58 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	1/15/2020 10:34:58 AM
Surr: DNOP	133	55.1-146		%Rec	1	1/15/2020 10:34:58 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/15/2020 4:09:15 AM
Surr: BFB	78.1	66.6-105		%Rec	1	1/15/2020 4:09:15 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	1/15/2020 4:09:15 AM
Toluene	ND	0.050		mg/Kg	1	1/15/2020 4:09:15 AM
Ethylbenzene	ND	0.050		mg/Kg	1	1/15/2020 4:09:15 AM
Xylenes, Total	ND	0.099		mg/Kg	1	1/15/2020 4:09:15 AM
Surr: 4-Bromofluorobenzene	89.6	80-120		%Rec	1	1/15/2020 4:09:15 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	ND	60		mg/Kg	20	1/15/2020 3:09:18 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Limit	
	S	% Recovery outside of range due to dilution or matrix			

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## Analytical Report

Lab Order 2001435

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/28/2020

CLIENT: Environmental Plus, Inc

Client Sample ID: 20200108C4VZ NE

Project: EPI Vadose Zone Monitoring

Collection Date: 1/8/2020 2:40:00 PM

Lab ID: 2001435-017

Matrix: SOIL

Received Date: 1/11/2020 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	1/15/2020 11:38:57 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/15/2020 11:38:57 AM
Surr: DNOP	95.6	55.1-146		%Rec	1	1/15/2020 11:38:57 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/15/2020 2:26:19 PM
Surr: BFB	91.4	66.6-105		%Rec	1	1/15/2020 2:26:19 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	1/15/2020 2:26:19 PM
Toluene	ND	0.049		mg/Kg	1	1/15/2020 2:26:19 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/15/2020 2:26:19 PM
Xylenes, Total	ND	0.099		mg/Kg	1	1/15/2020 2:26:19 PM
Surr: 4-Bromofluorobenzene	96.9	80-120		%Rec	1	1/15/2020 2:26:19 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	170	60		mg/Kg	20	1/15/2020 5:49:46 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Limit	
	S	% Recovery outside of range due to dilution or matrix			

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## Analytical Report

Lab Order 2001435

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/28/2020

CLIENT: Environmental Plus, Inc

Client Sample ID: 20200108C4VZ COMP

Project: EPI Vadose Zone Monitoring

Collection Date: 1/8/2020 2:40:00 PM

Lab ID: 2001435-018

Matrix: SOIL

Received Date: 1/11/2020 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 7471: MERCURY</b>						Analyst: rde
Mercury	ND	0.034		mg/Kg	1	1/13/2020 4:44:26 PM
<b>EPA METHOD 6010B: SOIL METALS</b>						Analyst: rde
Antimony	ND	5.0		mg/Kg	2	1/15/2020 5:43:01 PM
Arsenic	ND	5.0		mg/Kg	2	1/20/2020 2:46:23 PM
Barium	170	0.20		mg/Kg	2	1/15/2020 5:43:01 PM
Beryllium	0.35	0.30		mg/Kg	2	1/15/2020 5:43:01 PM
Cadmium	ND	0.20		mg/Kg	2	1/15/2020 5:43:01 PM
Chromium	4.8	0.60		mg/Kg	2	1/15/2020 5:43:01 PM
Copper	2.7	0.60		mg/Kg	2	1/15/2020 5:43:01 PM
Iron	5600	250		mg/Kg	100	1/15/2020 6:23:14 PM
Lead	1.3	0.50		mg/Kg	2	1/15/2020 5:43:01 PM
Manganese	72	0.20		mg/Kg	2	1/15/2020 5:43:01 PM
Selenium	ND	5.0		mg/Kg	2	1/20/2020 2:46:23 PM
Silver	0.94	0.50		mg/Kg	2	1/15/2020 5:43:01 PM
Zinc	12	5.0		mg/Kg	2	1/15/2020 5:43:01 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Limit	
	S	% Recovery outside of range due to dilution or matrix			

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## Analytical Report

Lab Order 2001435

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/28/2020

CLIENT: Environmental Plus, Inc

Client Sample ID: 20200108C5VZ NW

Project: EPI Vadose Zone Monitoring

Collection Date: 1/8/2020 12:07:00 PM

Lab ID: 2001435-019

Matrix: SOIL

Received Date: 1/11/2020 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	67	39		mg/Kg	5	1/16/2020 1:42:07 PM
Motor Oil Range Organics (MRO)	200	190		mg/Kg	5	1/16/2020 1:42:07 PM
Surr: DNOP	76.3	55.1-146		%Rec	5	1/16/2020 1:42:07 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/15/2020 3:35:16 PM
Surr: BFB	90.5	66.6-105		%Rec	1	1/15/2020 3:35:16 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	1/15/2020 3:35:16 PM
Toluene	ND	0.048		mg/Kg	1	1/15/2020 3:35:16 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/15/2020 3:35:16 PM
Xylenes, Total	ND	0.096		mg/Kg	1	1/15/2020 3:35:16 PM
Surr: 4-Bromofluorobenzene	95.3	80-120		%Rec	1	1/15/2020 3:35:16 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	ND	60		mg/Kg	20	1/15/2020 6:02:08 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Limit	
	S	% Recovery outside of range due to dilution or matrix			

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## Analytical Report

Lab Order 2001435

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/28/2020

CLIENT: Environmental Plus, Inc

Client Sample ID: 20200108C5VZ SE

Project: EPI Vadose Zone Monitoring

Collection Date: 1/8/2020 12:14:00 PM

Lab ID: 2001435-020

Matrix: SOIL

Received Date: 1/11/2020 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	180	49		mg/Kg	5	1/16/2020 2:06:13 PM
Motor Oil Range Organics (MRO)	430	240		mg/Kg	5	1/16/2020 2:06:13 PM
Surr: DNOP	88.7	55.1-146		%Rec	5	1/16/2020 2:06:13 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/15/2020 3:58:01 PM
Surr: BFB	91.5	66.6-105		%Rec	1	1/15/2020 3:58:01 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	1/15/2020 3:58:01 PM
Toluene	ND	0.049		mg/Kg	1	1/15/2020 3:58:01 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/15/2020 3:58:01 PM
Xylenes, Total	ND	0.099		mg/Kg	1	1/15/2020 3:58:01 PM
Surr: 4-Bromofluorobenzene	96.3	80-120		%Rec	1	1/15/2020 3:58:01 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	ND	59		mg/Kg	20	1/15/2020 6:14:29 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Limit	
	S	% Recovery outside of range due to dilution or matrix			

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## Analytical Report

Lab Order 2001435

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/28/2020

CLIENT: Environmental Plus, Inc

Client Sample ID: 20200108C5VZ N

Project: EPI Vadose Zone Monitoring

Collection Date: 1/8/2020 12:22:00 PM

Lab ID: 2001435-021

Matrix: SOIL

Received Date: 1/11/2020 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	410	100		mg/Kg	10	1/15/2020 3:58:20 PM
Motor Oil Range Organics (MRO)	1300	500		mg/Kg	10	1/15/2020 3:58:20 PM
Surr: DNOP	0	55.1-146	S	%Rec	10	1/15/2020 3:58:20 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/15/2020 4:20:49 PM
Surr: BFB	89.3	66.6-105		%Rec	1	1/15/2020 4:20:49 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	1/15/2020 4:20:49 PM
Toluene	ND	0.048		mg/Kg	1	1/15/2020 4:20:49 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/15/2020 4:20:49 PM
Xylenes, Total	ND	0.097		mg/Kg	1	1/15/2020 4:20:49 PM
Surr: 4-Bromofluorobenzene	93.2	80-120		%Rec	1	1/15/2020 4:20:49 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	76	60		mg/Kg	20	1/15/2020 6:26:50 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Limit	
	S	% Recovery outside of range due to dilution or matrix			

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## Analytical Report

Lab Order 2001435

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/28/2020

CLIENT: Environmental Plus, Inc

Client Sample ID: 20200108C5VZ E

Project: EPI Vadose Zone Monitoring

Collection Date: 1/8/2020 12:30:00 PM

Lab ID: 2001435-022

Matrix: SOIL

Received Date: 1/11/2020 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	1/15/2020 12:34:41 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	1/15/2020 12:34:41 PM
Surr: DNOP	90.8	55.1-146		%Rec	1	1/15/2020 12:34:41 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/15/2020 4:43:38 PM
Surr: BFB	90.1	66.6-105		%Rec	1	1/15/2020 4:43:38 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	1/15/2020 4:43:38 PM
Toluene	ND	0.047		mg/Kg	1	1/15/2020 4:43:38 PM
Ethylbenzene	ND	0.047		mg/Kg	1	1/15/2020 4:43:38 PM
Xylenes, Total	ND	0.095		mg/Kg	1	1/15/2020 4:43:38 PM
Surr: 4-Bromofluorobenzene	93.0	80-120		%Rec	1	1/15/2020 4:43:38 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	ND	60		mg/Kg	20	1/15/2020 6:39:11 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Limit	
	S	% Recovery outside of range due to dilution or matrix			

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## Analytical Report

Lab Order 2001435

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/28/2020

CLIENT: Environmental Plus, Inc

Client Sample ID: 20200108C5VZ COMP

Project: EPI Vadose Zone Monitoring

Collection Date: 1/8/2020 12:30:00 PM

Lab ID: 2001435-023

Matrix: SOIL

Received Date: 1/11/2020 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 7471: MERCURY</b>						Analyst: rde
Mercury	ND	0.033		mg/Kg	1	1/13/2020 4:50:38 PM
<b>EPA METHOD 6010B: SOIL METALS</b>						Analyst: rde
Antimony	ND	5.0		mg/Kg	2	1/15/2020 5:44:36 PM
Arsenic	ND	5.0		mg/Kg	2	1/20/2020 2:53:43 PM
Barium	210	0.20		mg/Kg	2	1/15/2020 5:44:36 PM
Beryllium	0.30	0.30		mg/Kg	2	1/15/2020 5:44:36 PM
Cadmium	ND	0.20		mg/Kg	2	1/15/2020 5:44:36 PM
Chromium	4.3	0.60		mg/Kg	2	1/15/2020 5:44:36 PM
Copper	3.8	0.60		mg/Kg	2	1/15/2020 5:44:36 PM
Iron	5000	250		mg/Kg	100	1/15/2020 6:24:47 PM
Lead	23	0.50		mg/Kg	2	1/15/2020 5:44:36 PM
Manganese	53	0.20		mg/Kg	2	1/15/2020 5:44:36 PM
Selenium	ND	5.0		mg/Kg	2	1/20/2020 2:53:43 PM
Silver	1.5	0.50		mg/Kg	2	1/15/2020 5:44:36 PM
Zinc	13	5.0		mg/Kg	2	1/15/2020 5:44:36 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Limit	
	S	% Recovery outside of range due to dilution or matrix			

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## Analytical Report

Lab Order 2001435

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/28/2020

CLIENT: Environmental Plus, Inc

Client Sample ID: 20200108C6VZ SE

Project: EPI Vadose Zone Monitoring

Collection Date: 1/8/2020 3:00:00 PM

Lab ID: 2001435-024

Matrix: SOIL

Received Date: 1/11/2020 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	1/15/2020 12:43:56 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	1/15/2020 12:43:56 PM
Surr: DNOP	85.7	55.1-146		%Rec	1	1/15/2020 12:43:56 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/15/2020 7:24:11 PM
Surr: BFB	89.6	66.6-105		%Rec	1	1/15/2020 7:24:11 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	1/15/2020 7:24:11 PM
Toluene	ND	0.049		mg/Kg	1	1/15/2020 7:24:11 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/15/2020 7:24:11 PM
Xylenes, Total	ND	0.097		mg/Kg	1	1/15/2020 7:24:11 PM
Surr: 4-Bromofluorobenzene	93.4	80-120		%Rec	1	1/15/2020 7:24:11 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	ND	60		mg/Kg	20	1/15/2020 6:51:32 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Limit	
	S	% Recovery outside of range due to dilution or matrix			

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## Analytical Report

Lab Order 2001435

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/28/2020

CLIENT: Environmental Plus, Inc

Client Sample ID: 20200108C6VZ SW

Project: EPI Vadose Zone Monitoring

Collection Date: 1/8/2020 4:02:00 PM

Lab ID: 2001435-025

Matrix: SOIL

Received Date: 1/11/2020 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	1/15/2020 12:53:12 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/15/2020 12:53:12 PM
Surr: DNOP	89.0	55.1-146		%Rec	1	1/15/2020 12:53:12 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/15/2020 7:46:55 PM
Surr: BFB	90.4	66.6-105		%Rec	1	1/15/2020 7:46:55 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	1/15/2020 7:46:55 PM
Toluene	ND	0.050		mg/Kg	1	1/15/2020 7:46:55 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/15/2020 7:46:55 PM
Xylenes, Total	ND	0.10		mg/Kg	1	1/15/2020 7:46:55 PM
Surr: 4-Bromofluorobenzene	94.3	80-120		%Rec	1	1/15/2020 7:46:55 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	ND	60		mg/Kg	20	1/15/2020 7:03:53 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Limit	
	S	% Recovery outside of range due to dilution or matrix			

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## Analytical Report

Lab Order 2001435

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/28/2020

CLIENT: Environmental Plus, Inc

Client Sample ID: 20200108C6VZ NW

Project: EPI Vadose Zone Monitoring

Collection Date: 1/8/2020 4:10:00 PM

Lab ID: 2001435-026

Matrix: SOIL

Received Date: 1/11/2020 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	1/15/2020 1:02:28 PM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	1/15/2020 1:02:28 PM
Surr: DNOP	80.3	55.1-146		%Rec	1	1/15/2020 1:02:28 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/15/2020 8:09:55 PM
Surr: BFB	91.7	66.6-105		%Rec	1	1/15/2020 8:09:55 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.023		mg/Kg	1	1/15/2020 8:09:55 PM
Toluene	ND	0.047		mg/Kg	1	1/15/2020 8:09:55 PM
Ethylbenzene	ND	0.047		mg/Kg	1	1/15/2020 8:09:55 PM
Xylenes, Total	ND	0.094		mg/Kg	1	1/15/2020 8:09:55 PM
Surr: 4-Bromofluorobenzene	95.2	80-120		%Rec	1	1/15/2020 8:09:55 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	93	60		mg/Kg	20	1/15/2020 8:05:36 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Limit	
	S	% Recovery outside of range due to dilution or matrix			

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## Analytical Report

Lab Order 2001435

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/28/2020

CLIENT: Environmental Plus, Inc

Client Sample ID: 20200108C6VZ NE

Project: EPI Vadose Zone Monitoring

Collection Date: 1/8/2020 4:17:00 PM

Lab ID: 2001435-027

Matrix: SOIL

Received Date: 1/11/2020 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	1/15/2020 1:11:43 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/15/2020 1:11:43 PM
Surr: DNOP	80.0	55.1-146		%Rec	1	1/15/2020 1:11:43 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/15/2020 8:32:52 PM
Surr: BFB	90.0	66.6-105		%Rec	1	1/15/2020 8:32:52 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	1/15/2020 8:32:52 PM
Toluene	ND	0.049		mg/Kg	1	1/15/2020 8:32:52 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/15/2020 8:32:52 PM
Xylenes, Total	ND	0.099		mg/Kg	1	1/15/2020 8:32:52 PM
Surr: 4-Bromofluorobenzene	92.6	80-120		%Rec	1	1/15/2020 8:32:52 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	ND	60		mg/Kg	20	1/15/2020 8:17:57 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Limit	
	S	% Recovery outside of range due to dilution or matrix			

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## Analytical Report

Lab Order 2001435

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/28/2020

CLIENT: Environmental Plus, Inc

Client Sample ID: 20200108C6VZ COMP

Project: EPI Vadose Zone Monitoring

Collection Date: 1/8/2020 4:17:00 PM

Lab ID: 2001435-028

Matrix: SOIL

Received Date: 1/11/2020 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 7471: MERCURY</b>						Analyst: rde
Mercury	ND	0.033		mg/Kg	1	1/13/2020 4:52:41 PM
<b>EPA METHOD 6010B: SOIL METALS</b>						Analyst: rde
Antimony	ND	5.1		mg/Kg	2	1/15/2020 5:46:09 PM
Arsenic	ND	5.1		mg/Kg	2	1/20/2020 2:55:17 PM
Barium	330	0.20		mg/Kg	2	1/15/2020 5:46:09 PM
Beryllium	ND	0.30		mg/Kg	2	1/15/2020 5:46:09 PM
Cadmium	ND	0.20		mg/Kg	2	1/15/2020 5:46:09 PM
Chromium	2.7	0.61		mg/Kg	2	1/15/2020 5:46:09 PM
Copper	1.6	0.61		mg/Kg	2	1/15/2020 5:46:09 PM
Iron	3300	250		mg/Kg	100	1/15/2020 6:26:21 PM
Lead	ND	0.51		mg/Kg	2	1/15/2020 5:46:09 PM
Manganese	22	0.20		mg/Kg	2	1/15/2020 5:46:09 PM
Selenium	7.5	5.1		mg/Kg	2	1/20/2020 2:55:17 PM
Silver	2.7	0.51		mg/Kg	2	1/15/2020 5:46:09 PM
Zinc	6.8	5.1		mg/Kg	2	1/15/2020 5:46:09 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Limit	
	S	% Recovery outside of range due to dilution or matrix			

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## Analytical Report

Lab Order 2001435

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/28/2020

CLIENT: Environmental Plus, Inc

Client Sample ID: 20200108C7VZ SS

Project: EPI Vadose Zone Monitoring

Collection Date: 1/8/2020 4:24:00 PM

Lab ID: 2001435-029

Matrix: SOIL

Received Date: 1/11/2020 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	8.3		mg/Kg	1	1/15/2020 1:21:00 PM
Motor Oil Range Organics (MRO)	ND	41		mg/Kg	1	1/15/2020 1:21:00 PM
Surr: DNOP	64.0	55.1-146		%Rec	1	1/15/2020 1:21:00 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/15/2020 8:55:42 PM
Surr: BFB	90.2	66.6-105		%Rec	1	1/15/2020 8:55:42 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.023		mg/Kg	1	1/15/2020 8:55:42 PM
Toluene	ND	0.047		mg/Kg	1	1/15/2020 8:55:42 PM
Ethylbenzene	ND	0.047		mg/Kg	1	1/15/2020 8:55:42 PM
Xylenes, Total	ND	0.094		mg/Kg	1	1/15/2020 8:55:42 PM
Surr: 4-Bromofluorobenzene	93.0	80-120		%Rec	1	1/15/2020 8:55:42 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	ND	59		mg/Kg	20	1/15/2020 8:30:18 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Limit	
	S	% Recovery outside of range due to dilution or matrix			

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## Analytical Report

Lab Order 2001435

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/28/2020

CLIENT: Environmental Plus, Inc

Client Sample ID: 20200108C7VZ SE

Project: EPI Vadose Zone Monitoring

Collection Date: 1/8/2020 4:28:00 PM

Lab ID: 2001435-030

Matrix: SOIL

Received Date: 1/11/2020 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	1/15/2020 1:30:16 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/15/2020 1:30:16 PM
Surr: DNOP	83.0	55.1-146		%Rec	1	1/15/2020 1:30:16 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/15/2020 9:18:36 PM
Surr: BFB	91.3	66.6-105		%Rec	1	1/15/2020 9:18:36 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	1/15/2020 9:18:36 PM
Toluene	ND	0.047		mg/Kg	1	1/15/2020 9:18:36 PM
Ethylbenzene	ND	0.047		mg/Kg	1	1/15/2020 9:18:36 PM
Xylenes, Total	ND	0.094		mg/Kg	1	1/15/2020 9:18:36 PM
Surr: 4-Bromofluorobenzene	93.5	80-120		%Rec	1	1/15/2020 9:18:36 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	810	60		mg/Kg	20	1/15/2020 8:42:39 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded		J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit		P	Sample pH Not In Range
	PQL	Practical Quantitative Limit		RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix			

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## Analytical Report

Lab Order 2001435

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/28/2020

CLIENT: Environmental Plus, Inc

Client Sample ID: 20200108C7VZ NE

Project: EPI Vadose Zone Monitoring

Collection Date: 1/8/2020 4:31:00 PM

Lab ID: 2001435-031

Matrix: SOIL

Received Date: 1/11/2020 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	1/15/2020 1:39:33 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/15/2020 1:39:33 PM
Surr: DNOP	84.4	55.1-146		%Rec	1	1/15/2020 1:39:33 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/15/2020 9:41:26 PM
Surr: BFB	91.6	66.6-105		%Rec	1	1/15/2020 9:41:26 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	1/15/2020 9:41:26 PM
Toluene	ND	0.047		mg/Kg	1	1/15/2020 9:41:26 PM
Ethylbenzene	ND	0.047		mg/Kg	1	1/15/2020 9:41:26 PM
Xylenes, Total	ND	0.094		mg/Kg	1	1/15/2020 9:41:26 PM
Surr: 4-Bromofluorobenzene	93.6	80-120		%Rec	1	1/15/2020 9:41:26 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	370	60		mg/Kg	20	1/15/2020 8:55:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded		J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit		P	Sample pH Not In Range
	PQL	Practical Quantitative Limit		RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix			

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## Analytical Report

Lab Order 2001435

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/28/2020

CLIENT: Environmental Plus, Inc

Client Sample ID: 20200108C7VZ NW

Project: EPI Vadose Zone Monitoring

Collection Date: 1/8/2020 4:36:00 PM

Lab ID: 2001435-032

Matrix: SOIL

Received Date: 1/11/2020 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	1/15/2020 1:48:52 PM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	1/15/2020 1:48:52 PM
Surr: DNOP	82.7	55.1-146		%Rec	1	1/15/2020 1:48:52 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/15/2020 10:04:20 PM
Surr: BFB	89.3	66.6-105		%Rec	1	1/15/2020 10:04:20 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.023		mg/Kg	1	1/15/2020 10:04:20 PM
Toluene	ND	0.047		mg/Kg	1	1/15/2020 10:04:20 PM
Ethylbenzene	ND	0.047		mg/Kg	1	1/15/2020 10:04:20 PM
Xylenes, Total	ND	0.094		mg/Kg	1	1/15/2020 10:04:20 PM
Surr: 4-Bromofluorobenzene	91.9	80-120		%Rec	1	1/15/2020 10:04:20 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	ND	60		mg/Kg	20	1/15/2020 9:07:21 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Limit	
	S	% Recovery outside of range due to dilution or matrix			

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## Analytical Report

Lab Order 2001435

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/28/2020

CLIENT: Environmental Plus, Inc

Client Sample ID: 20200108C7VZ SW

Project: EPI Vadose Zone Monitoring

Collection Date: 1/8/2020 4:39:00 PM

Lab ID: 2001435-033

Matrix: SOIL

Received Date: 1/11/2020 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	1/15/2020 1:57:54 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	1/15/2020 1:57:54 PM
Surr: DNOP	88.2	55.1-146		%Rec	1	1/15/2020 1:57:54 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/15/2020 10:27:15 PM
Surr: BFB	92.1	66.6-105		%Rec	1	1/15/2020 10:27:15 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	1/15/2020 10:27:15 PM
Toluene	ND	0.049		mg/Kg	1	1/15/2020 10:27:15 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/15/2020 10:27:15 PM
Xylenes, Total	ND	0.099		mg/Kg	1	1/15/2020 10:27:15 PM
Surr: 4-Bromofluorobenzene	94.3	80-120		%Rec	1	1/15/2020 10:27:15 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	ND	60		mg/Kg	20	1/15/2020 9:19:42 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Limit	
	S	% Recovery outside of range due to dilution or matrix			

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## Analytical Report

Lab Order 2001435

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/28/2020

CLIENT: Environmental Plus, Inc

Client Sample ID:20200108C7VZ COMP

Project: EPI Vadose Zone Monitoring

Collection Date:1/8/2020 4:39:00 PM

Lab ID: 2001435-034

Matrix: SOIL

Received Date:1/11/2020 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 7471: MERCURY</b>						Analyst: rde
Mercury	ND	0.033		mg/Kg	1	1/13/2020 4:54:45 PM
<b>EPA METHOD 6010B: SOIL METALS</b>						Analyst: rde
Antimony	ND	5.0		mg/Kg	2	1/15/2020 5:47:42 PM
Arsenic	ND	5.0		mg/Kg	2	1/20/2020 2:56:50 PM
Barium	77	0.20		mg/Kg	2	1/15/2020 5:47:42 PM
Beryllium	0.45	0.30		mg/Kg	2	1/15/2020 5:47:42 PM
Cadmium	ND	0.20		mg/Kg	2	1/15/2020 5:47:42 PM
Chromium	7.3	0.60		mg/Kg	2	1/15/2020 5:47:42 PM
Copper	3.0	0.60		mg/Kg	2	1/15/2020 5:47:42 PM
Iron	8700	250		mg/Kg	100	1/15/2020 6:27:54 PM
Lead	0.55	0.50		mg/Kg	2	1/15/2020 5:47:42 PM
Manganese	88	0.20		mg/Kg	2	1/15/2020 5:47:42 PM
Selenium	ND	5.0		mg/Kg	2	1/20/2020 2:56:50 PM
Silver	ND	0.50		mg/Kg	2	1/15/2020 5:47:42 PM
Zinc	18	5.0		mg/Kg	2	1/15/2020 5:47:42 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Limit	
	S	% Recovery outside of range due to dilution or matrix			

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## Analytical Report

Lab Order 2001435

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/28/2020

CLIENT: Environmental Plus, Inc

Client Sample ID: 20200108C8VZ SW

Project: EPI Vadose Zone Monitoring

Collection Date: 1/8/2020 4:47:00 PM

Lab ID: 2001435-035

Matrix: SOIL

Received Date: 1/11/2020 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	1/15/2020 2:06:56 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/15/2020 2:06:56 PM
Surr: DNOP	91.4	55.1-146		%Rec	1	1/15/2020 2:06:56 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/15/2020 10:50:15 PM
Surr: BFB	91.2	66.6-105		%Rec	1	1/15/2020 10:50:15 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	1/15/2020 10:50:15 PM
Toluene	ND	0.048		mg/Kg	1	1/15/2020 10:50:15 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/15/2020 10:50:15 PM
Xylenes, Total	ND	0.096		mg/Kg	1	1/15/2020 10:50:15 PM
Surr: 4-Bromofluorobenzene	93.9	80-120		%Rec	1	1/15/2020 10:50:15 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	320	60		mg/Kg	20	1/15/2020 10:21:25 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Limit	
	S	% Recovery outside of range due to dilution or matrix			

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## Analytical Report

Lab Order 2001435

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/28/2020

CLIENT: Environmental Plus, Inc

Client Sample ID: 20200108C8VZ NW

Project: EPI Vadose Zone Monitoring

Collection Date: 1/8/2020 4:52:00 PM

Lab ID: 2001435-036

Matrix: SOIL

Received Date: 1/11/2020 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	1/15/2020 2:16:12 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	1/15/2020 2:16:12 PM
Surr: DNOP	87.4	55.1-146		%Rec	1	1/15/2020 2:16:12 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/16/2020 12:21:46 AM
Surr: BFB	88.9	66.6-105		%Rec	1	1/16/2020 12:21:46 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	1/16/2020 12:21:46 AM
Toluene	ND	0.048		mg/Kg	1	1/16/2020 12:21:46 AM
Ethylbenzene	ND	0.048		mg/Kg	1	1/16/2020 12:21:46 AM
Xylenes, Total	ND	0.095		mg/Kg	1	1/16/2020 12:21:46 AM
Surr: 4-Bromofluorobenzene	92.5	80-120		%Rec	1	1/16/2020 12:21:46 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	130	60		mg/Kg	20	1/15/2020 10:33:45 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Limit	
	S	% Recovery outside of range due to dilution or matrix			

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## Analytical Report

Lab Order 2001435

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/28/2020

CLIENT: Environmental Plus, Inc

Client Sample ID: 20200108C8VZ NE

Project: EPI Vadose Zone Monitoring

Collection Date: 1/8/2020 4:55:00 PM

Lab ID: 2001435-037

Matrix: SOIL

Received Date: 1/11/2020 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	1/16/2020 12:07:03 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/16/2020 12:07:03 PM
Surr: DNOP	102	55.1-146		%Rec	1	1/16/2020 12:07:03 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/15/2020 10:16:27 AM
Surr: BFB	81.8	66.6-105		%Rec	1	1/15/2020 10:16:27 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.023		mg/Kg	1	1/15/2020 10:16:27 AM
Toluene	ND	0.047		mg/Kg	1	1/15/2020 10:16:27 AM
Ethylbenzene	ND	0.047		mg/Kg	1	1/15/2020 10:16:27 AM
Xylenes, Total	ND	0.093		mg/Kg	1	1/15/2020 10:16:27 AM
Surr: 4-Bromofluorobenzene	92.6	80-120		%Rec	1	1/15/2020 10:16:27 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	ND	60		mg/Kg	20	1/15/2020 10:46:05 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Limit	
	S	% Recovery outside of range due to dilution or matrix			

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## Analytical Report

Lab Order 2001435

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/28/2020

CLIENT: Environmental Plus, Inc

Client Sample ID: 20200109C8VZ SE

Project: EPI Vadose Zone Monitoring

Collection Date: 1/9/2020 9:05:00 AM

Lab ID: 2001435-038

Matrix: SOIL

Received Date: 1/11/2020 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	1/16/2020 12:34:19 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/16/2020 12:34:19 PM
Surr: DNOP	95.5	55.1-146		%Rec	1	1/16/2020 12:34:19 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/15/2020 11:27:32 AM
Surr: BFB	82.5	66.6-105		%Rec	1	1/15/2020 11:27:32 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	1/15/2020 11:27:32 AM
Toluene	ND	0.048		mg/Kg	1	1/15/2020 11:27:32 AM
Ethylbenzene	ND	0.048		mg/Kg	1	1/15/2020 11:27:32 AM
Xylenes, Total	ND	0.097		mg/Kg	1	1/15/2020 11:27:32 AM
Surr: 4-Bromofluorobenzene	93.5	80-120		%Rec	1	1/15/2020 11:27:32 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	ND	60		mg/Kg	20	1/15/2020 10:58:25 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Limit	
	S	% Recovery outside of range due to dilution or matrix			

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## Analytical Report

Lab Order 2001435

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/28/2020

CLIENT: Environmental Plus, Inc

Client Sample ID:20200109C8VZ COMP

Project: EPI Vadose Zone Monitoring

Collection Date:1/9/2020 9:05:00 AM

Lab ID: 2001435-039

Matrix: SOIL

Received Date:1/11/2020 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 7471: MERCURY</b>						Analyst: rde
Mercury	ND	0.033		mg/Kg	1	1/13/2020 4:56:49 PM
<b>EPA METHOD 6010B: SOIL METALS</b>						Analyst: rde
Antimony	ND	4.9		mg/Kg	2	1/15/2020 5:49:15 PM
Arsenic	ND	4.9		mg/Kg	2	1/20/2020 2:58:23 PM
Barium	44	0.20		mg/Kg	2	1/15/2020 5:49:15 PM
Beryllium	0.65	0.30		mg/Kg	2	1/15/2020 5:49:15 PM
Cadmium	ND	0.20		mg/Kg	2	1/15/2020 5:49:15 PM
Chromium	10	0.59		mg/Kg	2	1/15/2020 5:49:15 PM
Copper	1.5	0.59		mg/Kg	2	1/15/2020 5:49:15 PM
Iron	12000	250		mg/Kg	100	1/15/2020 6:29:27 PM
Lead	0.52	0.49		mg/Kg	2	1/15/2020 5:49:15 PM
Manganese	73	0.20		mg/Kg	2	1/15/2020 5:49:15 PM
Selenium	ND	4.9		mg/Kg	2	1/20/2020 2:58:23 PM
Silver	ND	0.49		mg/Kg	2	1/15/2020 5:49:15 PM
Zinc	24	4.9		mg/Kg	2	1/15/2020 5:49:15 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Limit	
	S	% Recovery outside of range due to dilution or matrix			

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## Analytical Report

Lab Order 2001435

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/28/2020

CLIENT: Environmental Plus, Inc

Client Sample ID: 20200109C9VZ S

Project: EPI Vadose Zone Monitoring

Collection Date: 1/9/2020 9:14:00 AM

Lab ID: 2001435-040

Matrix: SOIL

Received Date: 1/11/2020 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	1/17/2020 8:06:36 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/17/2020 8:06:36 AM
Surr: DNOP	100	55.1-146		%Rec	1	1/17/2020 8:06:36 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/15/2020 12:38:26 PM
Surr: BFB	79.3	66.6-105		%Rec	1	1/15/2020 12:38:26 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	1/15/2020 12:38:26 PM
Toluene	ND	0.049		mg/Kg	1	1/15/2020 12:38:26 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/15/2020 12:38:26 PM
Xylenes, Total	ND	0.099		mg/Kg	1	1/15/2020 12:38:26 PM
Surr: 4-Bromofluorobenzene	90.1	80-120		%Rec	1	1/15/2020 12:38:26 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	ND	60		mg/Kg	20	1/15/2020 11:10:45 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Limit	
	S	% Recovery outside of range due to dilution or matrix			

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## Analytical Report

Lab Order 2001435

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/28/2020

CLIENT: Environmental Plus, Inc

Client Sample ID: 20200109C9VZ N

Project: EPI Vadose Zone Monitoring

Collection Date: 1/9/2020 9:19:00 AM

Lab ID: 2001435-041

Matrix: SOIL

Received Date: 1/11/2020 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	1/16/2020 12:52:31 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/16/2020 12:52:31 PM
Surr: DNOP	106	55.1-146		%Rec	1	1/16/2020 12:52:31 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/15/2020 1:01:52 PM
Surr: BFB	79.6	66.6-105		%Rec	1	1/15/2020 1:01:52 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	1/15/2020 1:01:52 PM
Toluene	ND	0.048		mg/Kg	1	1/15/2020 1:01:52 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/15/2020 1:01:52 PM
Xylenes, Total	ND	0.096		mg/Kg	1	1/15/2020 1:01:52 PM
Surr: 4-Bromofluorobenzene	90.0	80-120		%Rec	1	1/15/2020 1:01:52 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	ND	60		mg/Kg	20	1/15/2020 11:23:06 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Limit	
	S	% Recovery outside of range due to dilution or matrix			

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## Analytical Report

Lab Order 2001435

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/28/2020

CLIENT: Environmental Plus, Inc

Client Sample ID: 20200109C9VZ COMP

Project: EPI Vadose Zone Monitoring

Collection Date: 1/9/2020 9:19:00 AM

Lab ID: 2001435-042

Matrix: SOIL

Received Date: 1/11/2020 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 7471: MERCURY</b>						Analyst: rde
Mercury	ND	0.033		mg/Kg	1	1/13/2020 4:58:53 PM
<b>EPA METHOD 6010B: SOIL METALS</b>						Analyst: rde
Antimony	ND	4.8		mg/Kg	2	1/15/2020 6:01:41 PM
Arsenic	ND	4.8		mg/Kg	2	1/20/2020 3:13:13 PM
Barium	72	0.19		mg/Kg	2	1/15/2020 6:01:41 PM
Beryllium	0.69	0.29		mg/Kg	2	1/15/2020 6:01:41 PM
Cadmium	ND	0.19		mg/Kg	2	1/15/2020 6:01:41 PM
Chromium	9.9	0.58		mg/Kg	2	1/15/2020 6:01:41 PM
Copper	1.9	0.58		mg/Kg	2	1/15/2020 6:01:41 PM
Iron	12000	240		mg/Kg	100	1/15/2020 6:31:00 PM
Lead	0.55	0.48		mg/Kg	2	1/15/2020 6:01:41 PM
Manganese	71	0.19		mg/Kg	2	1/15/2020 6:01:41 PM
Selenium	ND	4.8		mg/Kg	2	1/15/2020 6:01:41 PM
Silver	ND	0.48		mg/Kg	2	1/15/2020 6:01:41 PM
Zinc	23	4.8		mg/Kg	2	1/15/2020 6:01:41 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Limit	
	S	% Recovery outside of range due to dilution or matrix			

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## Analytical Report

Lab Order 2001435

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/28/2020

CLIENT: Environmental Plus, Inc

Client Sample ID: 20200109C10VZ NW

Project: EPI Vadose Zone Monitoring

Collection Date: 1/9/2020 9:32:00 AM

Lab ID: 2001435-043

Matrix: SOIL

Received Date: 1/11/2020 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	1/16/2020 1:01:36 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/16/2020 1:01:36 PM
Surr: DNOP	101	55.1-146		%Rec	1	1/16/2020 1:01:36 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/15/2020 1:25:16 PM
Surr: BFB	81.0	66.6-105		%Rec	1	1/15/2020 1:25:16 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	1/15/2020 1:25:16 PM
Toluene	ND	0.048		mg/Kg	1	1/15/2020 1:25:16 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/15/2020 1:25:16 PM
Xylenes, Total	ND	0.097		mg/Kg	1	1/15/2020 1:25:16 PM
Surr: 4-Bromofluorobenzene	92.5	80-120		%Rec	1	1/15/2020 1:25:16 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>SRM</b>
Chloride	ND	60		mg/Kg	20	1/16/2020 2:01:29 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Limit	
	S	% Recovery outside of range due to dilution or matrix			

## Analytical Report

Lab Order 2001435

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/28/2020

CLIENT: Environmental Plus, Inc

Client Sample ID: 20200109C10VZ NE

Project: EPI Vadose Zone Monitoring

Collection Date: 1/9/2020 9:39:00 AM

Lab ID: 2001435-044

Matrix: SOIL

Received Date: 1/11/2020 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	1/16/2020 1:10:42 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/16/2020 1:10:42 PM
Surr: DNOP	114	55.1-146		%Rec	1	1/16/2020 1:10:42 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/15/2020 1:48:45 PM
Surr: BFB	82.0	66.6-105		%Rec	1	1/15/2020 1:48:45 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	1/15/2020 1:48:45 PM
Toluene	ND	0.049		mg/Kg	1	1/15/2020 1:48:45 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/15/2020 1:48:45 PM
Xylenes, Total	ND	0.099		mg/Kg	1	1/15/2020 1:48:45 PM
Surr: 4-Bromofluorobenzene	94.1	80-120		%Rec	1	1/15/2020 1:48:45 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>SRM</b>
Chloride	ND	60		mg/Kg	20	1/16/2020 2:38:31 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Limit	
	S	% Recovery outside of range due to dilution or matrix			

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## Analytical Report

Lab Order 2001435

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/28/2020

CLIENT: Environmental Plus, Inc

Client Sample ID: 20200109C10VZ SE

Project: EPI Vadose Zone Monitoring

Collection Date: 1/9/2020 9:44:00 AM

Lab ID: 2001435-045

Matrix: SOIL

Received Date: 1/11/2020 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	1/16/2020 1:19:50 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/16/2020 1:19:50 PM
Surr: DNOP	106	55.1-146		%Rec	1	1/16/2020 1:19:50 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/15/2020 2:12:11 PM
Surr: BFB	80.7	66.6-105		%Rec	1	1/15/2020 2:12:11 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	1/15/2020 2:12:11 PM
Toluene	ND	0.048		mg/Kg	1	1/15/2020 2:12:11 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/15/2020 2:12:11 PM
Xylenes, Total	ND	0.095		mg/Kg	1	1/15/2020 2:12:11 PM
Surr: 4-Bromofluorobenzene	91.6	80-120		%Rec	1	1/15/2020 2:12:11 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>SRM</b>
Chloride	ND	60		mg/Kg	20	1/16/2020 2:50:52 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Limit	
	S	% Recovery outside of range due to dilution or matrix			

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## Analytical Report

Lab Order 2001435

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/28/2020

CLIENT: Environmental Plus, Inc

Client Sample ID: 20200109C10VZ SW

Project: EPI Vadose Zone Monitoring

Collection Date: 1/9/2020 9:50:00 AM

Lab ID: 2001435-046

Matrix: SOIL

Received Date: 1/11/2020 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	1/16/2020 1:28:55 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/16/2020 1:28:55 PM
Surr: DNOP	99.3	55.1-146		%Rec	1	1/16/2020 1:28:55 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/15/2020 2:35:30 PM
Surr: BFB	80.3	66.6-105		%Rec	1	1/15/2020 2:35:30 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	1/15/2020 2:35:30 PM
Toluene	ND	0.048		mg/Kg	1	1/15/2020 2:35:30 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/15/2020 2:35:30 PM
Xylenes, Total	ND	0.095		mg/Kg	1	1/15/2020 2:35:30 PM
Surr: 4-Bromofluorobenzene	90.5	80-120		%Rec	1	1/15/2020 2:35:30 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>SRM</b>
Chloride	ND	60		mg/Kg	20	1/16/2020 3:03:12 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded		J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit		P	Sample pH Not In Range
	PQL	Practical Quantitative Limit		RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix			

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## Analytical Report

Lab Order 2001435

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/28/2020

CLIENT: Environmental Plus, Inc

Client Sample ID:20200109C10VZ COMP

Project: EPI Vadose Zone Monitoring

Collection Date:1/9/2020 9:50:00 AM

Lab ID: 2001435-047

Matrix: SOIL

Received Date:1/11/2020 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 7471: MERCURY</b>						Analyst: rde
Mercury	ND	0.033		mg/Kg	1	1/13/2020 5:00:58 PM
<b>EPA METHOD 6010B: SOIL METALS</b>						Analyst: rde
Antimony	ND	4.9		mg/Kg	2	1/15/2020 6:03:15 PM
Arsenic	ND	4.9		mg/Kg	2	1/20/2020 3:14:41 PM
Barium	84	0.20		mg/Kg	2	1/15/2020 6:03:15 PM
Beryllium	0.83	0.29		mg/Kg	2	1/15/2020 6:03:15 PM
Cadmium	ND	0.20		mg/Kg	2	1/15/2020 6:03:15 PM
Chromium	13	0.59		mg/Kg	2	1/15/2020 6:03:15 PM
Copper	2.7	0.59		mg/Kg	2	1/15/2020 6:03:15 PM
Iron	15000	240		mg/Kg	100	1/15/2020 6:34:22 PM
Lead	ND	0.49		mg/Kg	2	1/15/2020 6:03:15 PM
Manganese	83	0.20		mg/Kg	2	1/15/2020 6:03:15 PM
Selenium	ND	4.9		mg/Kg	2	1/15/2020 6:03:15 PM
Silver	ND	0.49		mg/Kg	2	1/15/2020 6:03:15 PM
Zinc	31	4.9		mg/Kg	2	1/15/2020 6:03:15 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Limit	
	S	% Recovery outside of range due to dilution or matrix			

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## Analytical Report

Lab Order 2001435

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/28/2020

CLIENT: Environmental Plus, Inc

Client Sample ID: 20200109C11VZ NW

Project: EPI Vadose Zone Monitoring

Collection Date: 1/9/2020 10:02:00 AM

Lab ID: 2001435-048

Matrix: SOIL

Received Date: 1/11/2020 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	1/16/2020 1:38:13 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/16/2020 1:38:13 PM
Surr: DNOP	103	55.1-146		%Rec	1	1/16/2020 1:38:13 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/15/2020 2:58:56 PM
Surr: BFB	80.7	66.6-105		%Rec	1	1/15/2020 2:58:56 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	1/15/2020 2:58:56 PM
Toluene	ND	0.048		mg/Kg	1	1/15/2020 2:58:56 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/15/2020 2:58:56 PM
Xylenes, Total	ND	0.096		mg/Kg	1	1/15/2020 2:58:56 PM
Surr: 4-Bromofluorobenzene	92.0	80-120		%Rec	1	1/15/2020 2:58:56 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>SRM</b>
Chloride	ND	60		mg/Kg	20	1/16/2020 3:15:33 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Limit	
	S	% Recovery outside of range due to dilution or matrix			

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## Analytical Report

Lab Order 2001435

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/28/2020

CLIENT: Environmental Plus, Inc

Client Sample ID: 20200109C11VZ SW

Project: EPI Vadose Zone Monitoring

Collection Date: 1/9/2020 10:07:00 AM

Lab ID: 2001435-049

Matrix: SOIL

Received Date: 1/11/2020 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	1/16/2020 1:47:27 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/16/2020 1:47:27 PM
Surr: DNOP	104	55.1-146		%Rec	1	1/16/2020 1:47:27 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/15/2020 4:33:03 PM
Surr: BFB	80.5	66.6-105		%Rec	1	1/15/2020 4:33:03 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	1/15/2020 4:33:03 PM
Toluene	ND	0.048		mg/Kg	1	1/15/2020 4:33:03 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/15/2020 4:33:03 PM
Xylenes, Total	ND	0.096		mg/Kg	1	1/15/2020 4:33:03 PM
Surr: 4-Bromofluorobenzene	90.8	80-120		%Rec	1	1/15/2020 4:33:03 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>SRM</b>
Chloride	290	60		mg/Kg	20	1/16/2020 3:27:54 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Limit	
	S	% Recovery outside of range due to dilution or matrix			

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## Analytical Report

Lab Order 2001435

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/28/2020

CLIENT: Environmental Plus, Inc

Project: EPI Vadose Zone Monitoring

Lab ID: 2001435-050

Matrix: SOIL

Client Sample ID: 20200109C11VZ SE

Collection Date: 1/9/2020 10:11:00 AM

Received Date: 1/11/2020 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	1/16/2020 1:56:43 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	1/16/2020 1:56:43 PM
Surr: DNOP	97.4	55.1-146		%Rec	1	1/16/2020 1:56:43 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/15/2020 4:56:37 PM
Surr: BFB	79.6	66.6-105		%Rec	1	1/15/2020 4:56:37 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	1/15/2020 4:56:37 PM
Toluene	ND	0.048		mg/Kg	1	1/15/2020 4:56:37 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/15/2020 4:56:37 PM
Xylenes, Total	ND	0.095		mg/Kg	1	1/15/2020 4:56:37 PM
Surr: 4-Bromofluorobenzene	90.2	80-120		%Rec	1	1/15/2020 4:56:37 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>SRM</b>
Chloride	240	60		mg/Kg	20	1/16/2020 4:04:56 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Limit	
	S	% Recovery outside of range due to dilution or matrix			

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## Analytical Report

Lab Order 2001435

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/28/2020

CLIENT: Environmental Plus, Inc

Client Sample ID: 20200109C11VZ NE

Project: EPI Vadose Zone Monitoring

Collection Date: 1/9/2020 10:16:00 AM

Lab ID: 2001435-051

Matrix: SOIL

Received Date: 1/11/2020 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	1/16/2020 2:05:55 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/16/2020 2:05:55 PM
Surr: DNOP	104	55.1-146		%Rec	1	1/16/2020 2:05:55 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/15/2020 5:20:09 PM
Surr: BFB	79.6	66.6-105		%Rec	1	1/15/2020 5:20:09 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	1/15/2020 5:20:09 PM
Toluene	ND	0.048		mg/Kg	1	1/15/2020 5:20:09 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/15/2020 5:20:09 PM
Xylenes, Total	ND	0.096		mg/Kg	1	1/15/2020 5:20:09 PM
Surr: 4-Bromofluorobenzene	89.6	80-120		%Rec	1	1/15/2020 5:20:09 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>SRM</b>
Chloride	ND	60		mg/Kg	20	1/16/2020 4:17:17 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Limit	
	S	% Recovery outside of range due to dilution or matrix			

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## Analytical Report

Lab Order 2001435

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/28/2020

CLIENT: Environmental Plus, Inc

Client Sample ID:20200109C11VZ COMP

Project: EPI Vadose Zone Monitoring

Collection Date:1/9/2020 10:16:00 AM

Lab ID: 2001435-052

Matrix: SOIL

Received Date:1/11/2020 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 7471: MERCURY</b>						Analyst: rde
Mercury	ND	0.033		mg/Kg	1	1/13/2020 5:02:56 PM
<b>EPA METHOD 6010B: SOIL METALS</b>						Analyst: rde
Antimony	ND	4.9		mg/Kg	2	1/15/2020 6:04:48 PM
Arsenic	ND	4.9		mg/Kg	2	1/20/2020 3:16:13 PM
Barium	53	0.20		mg/Kg	2	1/15/2020 6:04:48 PM
Beryllium	0.67	0.29		mg/Kg	2	1/15/2020 6:04:48 PM
Cadmium	ND	0.20		mg/Kg	2	1/15/2020 6:04:48 PM
Chromium	11	0.59		mg/Kg	2	1/15/2020 6:04:48 PM
Copper	3.2	0.59		mg/Kg	2	1/15/2020 6:04:48 PM
Iron	12000	250		mg/Kg	100	1/15/2020 6:35:57 PM
Lead	ND	0.49		mg/Kg	2	1/15/2020 6:04:48 PM
Manganese	92	0.20		mg/Kg	2	1/15/2020 6:04:48 PM
Selenium	ND	4.9		mg/Kg	2	1/15/2020 6:04:48 PM
Silver	ND	0.49		mg/Kg	2	1/15/2020 6:04:48 PM
Zinc	27	4.9		mg/Kg	2	1/15/2020 6:04:48 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Limit	
	S	% Recovery outside of range due to dilution or matrix			

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## Analytical Report

Lab Order 2001435

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/28/2020

CLIENT: Environmental Plus, Inc

Client Sample ID: 20200109C12VZ E

Project: EPI Vadose Zone Monitoring

Collection Date: 1/9/2020 10:26:00 AM

Lab ID: 2001435-053

Matrix: SOIL

Received Date: 1/11/2020 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	1/16/2020 2:15:05 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/16/2020 2:15:05 PM
Surr: DNOP	104	55.1-146		%Rec	1	1/16/2020 2:15:05 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/15/2020 5:43:44 PM
Surr: BFB	77.9	66.6-105		%Rec	1	1/15/2020 5:43:44 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	1/15/2020 5:43:44 PM
Toluene	ND	0.048		mg/Kg	1	1/15/2020 5:43:44 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/15/2020 5:43:44 PM
Xylenes, Total	ND	0.095		mg/Kg	1	1/15/2020 5:43:44 PM
Surr: 4-Bromofluorobenzene	88.4	80-120		%Rec	1	1/15/2020 5:43:44 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>SRM</b>
Chloride	ND	60		mg/Kg	20	1/16/2020 4:29:38 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded		J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit		P	Sample pH Not In Range
	PQL	Practical Quantitative Limit		RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix			

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## Analytical Report

Lab Order 2001435

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/28/2020

CLIENT: Environmental Plus, Inc

Client Sample ID: 20200109C12VZ ME

Project: EPI Vadose Zone Monitoring

Collection Date: 1/9/2020 10:30:00 AM

Lab ID: 2001435-054

Matrix: SOIL

Received Date: 1/11/2020 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	1/16/2020 2:24:14 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/16/2020 2:24:14 PM
Surr: DNOP	105	55.1-146		%Rec	1	1/16/2020 2:24:14 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/15/2020 6:07:23 PM
Surr: BFB	78.0	66.6-105		%Rec	1	1/15/2020 6:07:23 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	1/15/2020 6:07:23 PM
Toluene	ND	0.049		mg/Kg	1	1/15/2020 6:07:23 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/15/2020 6:07:23 PM
Xylenes, Total	ND	0.099		mg/Kg	1	1/15/2020 6:07:23 PM
Surr: 4-Bromofluorobenzene	88.2	80-120		%Rec	1	1/15/2020 6:07:23 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>SRM</b>
Chloride	ND	60		mg/Kg	20	1/16/2020 5:06:39 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Limit	
	S	% Recovery outside of range due to dilution or matrix			

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## Analytical Report

Lab Order 2001435

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/28/2020

CLIENT: Environmental Plus, Inc

Client Sample ID: 20200109C12VZ MW

Project: EPI Vadose Zone Monitoring

Collection Date: 1/9/2020 10:36:00 AM

Lab ID: 2001435-055

Matrix: SOIL

Received Date: 1/11/2020 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	1/16/2020 2:33:23 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/16/2020 2:33:23 PM
Surr: DNOP	103	55.1-146		%Rec	1	1/16/2020 2:33:23 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/15/2020 6:30:54 PM
Surr: BFB	77.2	66.6-105		%Rec	1	1/15/2020 6:30:54 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	1/15/2020 6:30:54 PM
Toluene	ND	0.048		mg/Kg	1	1/15/2020 6:30:54 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/15/2020 6:30:54 PM
Xylenes, Total	ND	0.096		mg/Kg	1	1/15/2020 6:30:54 PM
Surr: 4-Bromofluorobenzene	87.4	80-120		%Rec	1	1/15/2020 6:30:54 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>MRA</b>
Chloride	ND	60		mg/Kg	20	1/17/2020 11:34:31 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Limit	
	S	% Recovery outside of range due to dilution or matrix			

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## Analytical Report

Lab Order 2001435

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/28/2020

CLIENT: Environmental Plus, Inc

Client Sample ID: 20200109C12VZ W

Project: EPI Vadose Zone Monitoring

Collection Date: 1/9/2020 10:41:00 AM

Lab ID: 2001435-056

Matrix: SOIL

Received Date: 1/11/2020 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	1/16/2020 2:42:31 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/16/2020 2:42:31 PM
Surr: DNOP	91.9	55.1-146		%Rec	1	1/16/2020 2:42:31 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/15/2020 6:54:18 PM
Surr: BFB	77.1	66.6-105		%Rec	1	1/15/2020 6:54:18 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	1/15/2020 6:54:18 PM
Toluene	ND	0.049		mg/Kg	1	1/15/2020 6:54:18 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/15/2020 6:54:18 PM
Xylenes, Total	ND	0.098		mg/Kg	1	1/15/2020 6:54:18 PM
Surr: 4-Bromofluorobenzene	87.4	80-120		%Rec	1	1/15/2020 6:54:18 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>MRA</b>
Chloride	510	60		mg/Kg	20	1/17/2020 11:46:52 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Limit	
	S	% Recovery outside of range due to dilution or matrix			

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## Analytical Report

Lab Order 2001435

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/28/2020

CLIENT: Environmental Plus, Inc

Client Sample ID: 20200109C12VZ COMP

Project: EPI Vadose Zone Monitoring

Collection Date: 1/9/2020 10:41:00 AM

Lab ID: 2001435-057

Matrix: SOIL

Received Date: 1/11/2020 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 7471: MERCURY</b>						Analyst: rde
Mercury	ND	0.032		mg/Kg	1	1/13/2020 5:04:54 PM
<b>EPA METHOD 6010B: SOIL METALS</b>						Analyst: rde
Antimony	ND	4.9		mg/Kg	2	1/15/2020 6:06:17 PM
Arsenic	ND	4.9		mg/Kg	2	1/20/2020 2:59:56 PM
Barium	110	0.20		mg/Kg	2	1/15/2020 6:06:17 PM
Beryllium	0.40	0.29		mg/Kg	2	1/15/2020 6:06:17 PM
Cadmium	ND	0.20		mg/Kg	2	1/15/2020 6:06:17 PM
Chromium	6.1	0.59		mg/Kg	2	1/15/2020 6:06:17 PM
Copper	2.1	0.59		mg/Kg	2	1/15/2020 6:06:17 PM
Iron	6900	250		mg/Kg	100	1/15/2020 6:37:31 PM
Lead	ND	0.49		mg/Kg	2	1/15/2020 6:06:17 PM
Manganese	42	0.20		mg/Kg	2	1/15/2020 6:06:17 PM
Selenium	ND	4.9		mg/Kg	2	1/15/2020 6:06:17 PM
Silver	0.73	0.49		mg/Kg	2	1/20/2020 4:33:47 PM
Zinc	13	4.9		mg/Kg	2	1/15/2020 6:06:17 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Limit	
	S	% Recovery outside of range due to dilution or matrix			

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## Analytical Report

Lab Order 2001435

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/28/2020

CLIENT: Environmental Plus, Inc

Client Sample ID: 20200109C13VZ C

Project: EPI Vadose Zone Monitoring

Collection Date: 1/9/2020 10:47:00 AM

Lab ID: 2001435-058

Matrix: SOIL

Received Date: 1/11/2020 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	1/16/2020 2:51:39 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/16/2020 2:51:39 PM
Surr: DNOP	98.5	55.1-146		%Rec	1	1/16/2020 2:51:39 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/15/2020 7:17:31 PM
Surr: BFB	80.5	66.6-105		%Rec	1	1/15/2020 7:17:31 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	1/15/2020 7:17:31 PM
Toluene	ND	0.048		mg/Kg	1	1/15/2020 7:17:31 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/15/2020 7:17:31 PM
Xylenes, Total	ND	0.097		mg/Kg	1	1/15/2020 7:17:31 PM
Surr: 4-Bromofluorobenzene	91.8	80-120		%Rec	1	1/15/2020 7:17:31 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>MRA</b>
Chloride	ND	60		mg/Kg	20	1/17/2020 11:59:14 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Limit	
	S	% Recovery outside of range due to dilution or matrix			

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## Analytical Report

Lab Order 2001435

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/28/2020

CLIENT: Environmental Plus, Inc

Client Sample ID: 20200109C14VZ C

Project: EPI Vadose Zone Monitoring

Collection Date: 1/9/2020 10:55:00 AM

Lab ID: 2001435-059

Matrix: SOIL

Received Date: 1/11/2020 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	1/16/2020 3:00:46 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/16/2020 3:00:46 PM
Surr: DNOP	83.2	55.1-146		%Rec	1	1/16/2020 3:00:46 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/15/2020 7:41:09 PM
Surr: BFB	79.1	66.6-105		%Rec	1	1/15/2020 7:41:09 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	1/15/2020 7:41:09 PM
Toluene	ND	0.049		mg/Kg	1	1/15/2020 7:41:09 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/15/2020 7:41:09 PM
Xylenes, Total	ND	0.099		mg/Kg	1	1/15/2020 7:41:09 PM
Surr: 4-Bromofluorobenzene	90.5	80-120		%Rec	1	1/15/2020 7:41:09 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>MRA</b>
Chloride	ND	60		mg/Kg	20	1/18/2020 12:11:34 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Limit	
	S	% Recovery outside of range due to dilution or matrix			

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## Analytical Report

Lab Order 2001435

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/28/2020

CLIENT: Environmental Plus, Inc

Client Sample ID: 20200109C15VZ C

Project: EPI Vadose Zone Monitoring

Collection Date: 1/9/2020 10:59:00 AM

Lab ID: 2001435-060

Matrix: SOIL

Received Date: 1/11/2020 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	1/16/2020 3:09:51 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/16/2020 3:09:51 PM
Surr: DNOP	82.6	55.1-146		%Rec	1	1/16/2020 3:09:51 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/15/2020 8:04:46 PM
Surr: BFB	80.0	66.6-105		%Rec	1	1/15/2020 8:04:46 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	1/15/2020 8:04:46 PM
Toluene	ND	0.048		mg/Kg	1	1/15/2020 8:04:46 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/15/2020 8:04:46 PM
Xylenes, Total	ND	0.095		mg/Kg	1	1/15/2020 8:04:46 PM
Surr: 4-Bromofluorobenzene	90.5	80-120		%Rec	1	1/15/2020 8:04:46 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>MRA</b>
Chloride	ND	61		mg/Kg	20	1/18/2020 12:23:55 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Limit	
	S	% Recovery outside of range due to dilution or matrix			

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## Analytical Report

Lab Order 2001435

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/28/2020

CLIENT: Environmental Plus, Inc

Client Sample ID: 20200109C131415 COMP

Project: EPI Vadose Zone Monitoring

Collection Date: 1/9/2020 10:59:00 AM

Lab ID: 2001435-061

Matrix: SOIL

Received Date: 1/11/2020 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 7471: MERCURY</b>						Analyst: rde
Mercury	ND	0.033		mg/Kg	1	1/13/2020 5:06:53 PM
<b>EPA METHOD 6010B: SOIL METALS</b>						Analyst: rde
Antimony	ND	5.0		mg/Kg	2	1/15/2020 6:09:38 PM
Arsenic	ND	5.0		mg/Kg	2	1/20/2020 3:17:46 PM
Barium	55	0.20		mg/Kg	2	1/15/2020 6:09:38 PM
Beryllium	0.32	0.30		mg/Kg	2	1/15/2020 6:09:38 PM
Cadmium	ND	0.20		mg/Kg	2	1/15/2020 6:09:38 PM
Chromium	5.7	0.60		mg/Kg	2	1/15/2020 6:09:38 PM
Copper	2.9	0.60		mg/Kg	2	1/15/2020 6:09:38 PM
Iron	5800	250		mg/Kg	100	1/15/2020 6:45:31 PM
Lead	1.5	0.50		mg/Kg	2	1/15/2020 6:09:38 PM
Manganese	69	0.20		mg/Kg	2	1/15/2020 6:09:38 PM
Selenium	ND	5.0		mg/Kg	2	1/15/2020 6:09:38 PM
Silver	ND	0.50		mg/Kg	2	1/15/2020 6:09:38 PM
Zinc	13	5.0		mg/Kg	2	1/15/2020 6:09:38 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank D	Sample
	Diluted Due to Matrix	E	Value above quantitation range		
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Limit	
	S	% Recovery outside of range due to dilution or matrix			

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# ANALYTICAL REPORT

January 28, 2020

## Hall Environmental Analysis Laboratory

Sample Delivery Group: L1182722

Samples Received: 01/24/2020

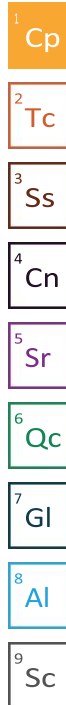
Project Number:

Description:

Report To:

4901 Hawkins NE

Albuquerque, NM 87109



Entire Report Reviewed By:

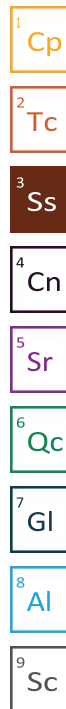
Daphne Richards

Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

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	Collected by	Collected date/time	Received date/time
2001435-005A 20200108C1VZ COMP L1182722-01 Solid		01/08/20 09:31	01/24/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B	WG1417028	1	01/25/20 12:25	01/27/20 18:07	EL	Mt. Juliet, TN

	Collected by	Collected date/time	Received date/time
2001435-010A 20200108C2VZ COMP L1182722-02 Solid		01/08/20 10:10	01/24/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B	WG1417028	1	01/25/20 12:25	01/27/20 18:31	EL	Mt. Juliet, TN

	Collected by	Collected date/time	Received date/time
2001435-013A 20200108C3VZ COMP L1182722-03 Solid		01/08/20 11:35	01/24/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B	WG1417028	1	01/25/20 12:25	01/27/20 18:34	EL	Mt. Juliet, TN

	Collected by	Collected date/time	Received date/time
2001435-018A 20200108C4VZ COMP L1182722-04 Solid		01/08/20 14:40	01/24/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B	WG1417028	1	01/25/20 12:25	01/27/20 18:37	EL	Mt. Juliet, TN

	Collected by	Collected date/time	Received date/time
2001435-023A 20200108C5VZ COMP L1182722-05 Solid		01/08/20 12:30	01/24/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B	WG1417028	1	01/25/20 12:25	01/27/20 18:40	EL	Mt. Juliet, TN

	Collected by	Collected date/time	Received date/time
2001435-028A 20200108C6VZ COMP L1182722-06 Solid		01/08/20 16:17	01/24/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B	WG1417028	1	01/25/20 12:25	01/27/20 18:43	EL	Mt. Juliet, TN

	Collected by	Collected date/time	Received date/time
2001435-034A 20200108C7VZ COMP L1182722-07 Solid		01/08/20 16:39	01/24/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B	WG1417028	1	01/25/20 12:25	01/27/20 18:45	EL	Mt. Juliet, TN

	Collected by	Collected date/time	Received date/time
2001435-039A 20200109C8VZ COMP L1182722-08 Solid		01/09/20 09:05	01/24/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B	WG1417028	1	01/25/20 12:25	01/27/20 18:48	EL	Mt. Juliet, TN



## II. SAMPLE SUMMARY

---

<sup>1</sup>Cp

<sup>2</sup>Tc

				Collected by	Collected date/time	Received date/time	
2001435-042A 20200109C9VZ COMP L1182722-09 Solid					01/09/20 09:19	01/24/20 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
Metals (ICP) by Method 6010B	WG1417028	1	01/25/20 12:25	01/27/20 18:51	EL	Mt. Juliet, TN	
				Collected by	Collected date/time	Received date/time	
2001435-047A 20200109C10VZ COMP L1182722-10 Solid					01/09/20 09:50	01/24/20 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
Metals (ICP) by Method 6010B	WG1417028	1	01/25/20 12:25	01/27/20 18:53	EL	Mt. Juliet, TN	
				Collected by	Collected date/time	Received date/time	
2001435-052A 20200109C11VZ COMP L1182722-11 Solid					01/09/20 10:16	01/24/20 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
Metals (ICP) by Method 6010B	WG1417028	1	01/25/20 12:25	01/27/20 18:56	EL	Mt. Juliet, TN	
				Collected by	Collected date/time	Received date/time	

1Cp

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



2001435-057A 20200109C12VZ COMP L1182722-12 Solid 01/09/20 10:41 01/24/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B	WG1417028	1	01/25/20 12:25	01/27/20 17:48	EL	Mt. Juliet, TN

Collected by  
01/09/20 10:59  
Received date/time  
01/24/20 09:00

2001435-061A 20200109C131415 COMP L1182722-13 Solid

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location

Metals (ICP) by Method 6010B

WG1417028

1

01/25/20 12:25

01/27/20 17:51

EL

Mt. Juliet, TN

<sup>1</sup>Cp

### III. CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within

the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

*Daphne R Richards*

Daphne Richards  
Project Manager



2001435-005A 20200108C1VZ COMP  
Collected date/time: 01/08/20 09:31

SAMPLE RESULTS - 01  
L1182722

Metals (ICP) by Method 6010B

Analyte	Result	RDL	Dilution	Analysis
	mg/kg	mg/kg		date / time
Thallium	ND	2.00	1	01/27/2020 18:07

1

Cp

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Ss

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Cn

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Sr

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Qc

7

Gl

8

Al

9

Sc

Qualifier

Batch

[WG1417028](#)

2001435-010A 20200108C2VZ COMP  
Collected date/time: 01/08/20 10:10

SAMPLE RESULTS - 02  
L1182722

Metals (ICP) by Method 6010B

	Result	RDL	Dilution	Analysis
Analyte	mg/kg	mg/kg		date / time
Thallium	ND	2.00	1	01/27/2020 18:31

- 1Cp
- 2Tc
- 3Ss
- 4Cn
- 5Sr
- 6Qc
- 7Gl
- 8Al
- 9Sc

Qualifier

Batch

[WG1417028](#)

2001435-013A 20200108C3VZ COMP  
Collected date/time: 01/08/20 11:35

SAMPLE RESULTS - 03  
L1182722

Metals (ICP) by Method 6010B

	Result	RDL	Dilution	Analysis
Analyte	mg/kg	mg/kg		date / time
Thallium	ND	2.00	1	01/27/2020 18:34

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Qualifier

Batch

[WG1417028](#)

2001435-018A 20200108C4VZ COMP  
Collected date/time: 01/08/20 14:40

SAMPLE RESULTS - 04  
L1182722

Metals (ICP) by Method 6010B

	Result	RDL	Dilution	Analysis
Analyte	mg/kg	mg/kg		date / time
Thallium	ND	2.00	1	01/27/2020 18:37

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Sr

6  
Qc

7  
Gl

8  
Al

9  
Sc

Qualifier

Batch

[WG1417028](#)

2001435-023A 20200108C5VZ COMP  
Collected date/time: 01/08/20 12:30

SAMPLE RESULTS - 05  
L1182722

Metals (ICP) by Method 6010B

	Result	RDL	Dilution	Analysis
Analyte	mg/kg	mg/kg		date / time
Thallium	ND	2.00	1	01/27/2020 18:40

Qualifier

Batch

[WG1417028](#)

2001435-028A 20200108C6VZ COMP  
Collected date/time: 01/08/20 16:17

SAMPLE RESULTS - 06  
L1182722

Metals (ICP) by Method 6010B

Analyte	Result	RDL	Dilution	Analysis
	mg/kg	mg/kg		date / time
Thallium	ND	2.00	1	01/27/2020 18:43

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Qualifier

Batch

[WG1417028](#)

2001435-034A 20200108C7VZ COMP  
Collected date/time: 01/08/20 16:39

SAMPLE RESULTS - 07  
L1182722

Metals (ICP) by Method 6010B

	Result	RDL	Dilution	Analysis
Analyte	mg/kg	mg/kg		date / time
Thallium	ND	2.00	1	01/27/2020 18:45

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Qualifier

Batch

[WG1417028](#)

2001435-039A 20200109C8VZ COMP  
Collected date/time: 01/09/20 09:05

SAMPLE RESULTS - 08  
L1182722

Metals (ICP) by Method 6010B

Analyte	Result	RDL	Dilution	Analysis
	mg/kg	mg/kg		date / time
Thallium	ND	2.00	1	01/27/2020 18:48

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Qualifier

Batch

[WG1417028](#)

2001435-042A 20200109C9VZ COMP  
Collected date/time: 01/09/20 09:19

SAMPLE RESULTS - 09  
L1182722

Metals (ICP) by Method 6010B

	Result	RDL	Dilution	Analysis
Analyte	mg/kg	mg/kg		date / time
Thallium	ND	2.00	1	01/27/2020 18:51

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Qualifier

Batch

[WG1417028](#)

2001435-047A 20200109C10VZ COMP  
Collected date/time: 01/09/20 09:50

SAMPLE RESULTS - 10  
L1182722

Metals (ICP) by Method 6010B

Analyte	Result	RDL	Dilution	Analysis
	mg/kg	mg/kg		date / time
Thallium	ND	2.00	1	01/27/2020 18:53

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Qualifier

Batch

[WG1417028](#)

2001435-052A 20200109C11VZ COMP  
Collected date/time: 01/09/20 10:16

SAMPLE RESULTS - 11  
L1182722

Metals (ICP) by Method 6010B

	Result	RDL	Dilution	Analysis
Analyte	mg/kg	mg/kg		date / time
Thallium	ND	2.00	1	01/27/2020 18:56

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Qualifier	Batch
	<a href="#">WG1417028</a>

2001435-057A 20200109C12VZ COMP  
Collected date/time: 01/09/20 10:41

SAMPLE RESULTS - 12  
L1182722

Metals (ICP) by Method 6010B

Analyte	Result	RDL	Dilution	Analysis
	mg/kg	mg/kg		date / time
Thallium	ND	2.00	1	01/27/2020 17:48

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Qualifier

Batch

[WG1417028](#)

2001435-061A 20200109C131415 COMP  
Collected date/time: 01/09/20 10:59

SAMPLE RESULTS - 13  
L1182722

Metals (ICP) by Method 6010B

Analyte	Result	RDL	Dilution	Analysis
	mg/kg	mg/kg		date / time
Thallium	ND	2.00	1	01/27/2020 17:51

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Metals (ICP) by Method 6010B

Method Blank (MB)

(MB) R3494597-1 01/27/20 17:59			
	MB Result	<u>MB Qualifier</u>	MB MDL MB RDL
Analyte	mg/kg		mg/kg mg/kg
Thallium	U		0.650 2.00

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3494597-2 01/27/20 18:01 • (LCSD) R3494597-3 01/27/20 18:04									
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	%	%	%			% %
Thallium	100	95.8	94.9	95.8	94.9	80.0-120			0.903 20

L1182722-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1182722-01 01/27/20 18:07 • (MS) R3494597-6 01/27/20 18:15 • (MSD) R3494597-7 01/27/20 18:18											
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			% %
Thallium	100	ND	96.0	97.6	96.0	97.6	1	75.0-125			1.65 20

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

GLOSSARY OF TERMS

ONE LAB. NATIONWIDE.



Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

**Tc** Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Re

Abbreviations and Definitions

1  
Cp

2 Results

3  
Ss

MDL	Method Detection Limit.	4
ND	Not detected at the Reporting Limit (or MDL where applicable).	Cn
RDL	Reported Detection Limit.	5
Rec.	Recovery.	Sr
RPD	Relative Percent Difference.	6
SDG	Sample Delivery Group.	Qc
U	Not detected at the Reporting Limit (or MDL where applicable).	
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.	8
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.	AI
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.	9
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.	
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.	
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.	
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.	
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.	
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.	
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.	
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.	
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.	

Qualifier	Description
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Sc

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

ACCREDITATIONS & LOCATIONS

ONE LAB. NATIONWIDE.



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE. \* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

\* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico <sup>1</sup>	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky <sup>1 6</sup>	90010	South Carolina	84004
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1 4</sup>	2006
Louisiana <sup>1</sup>	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234

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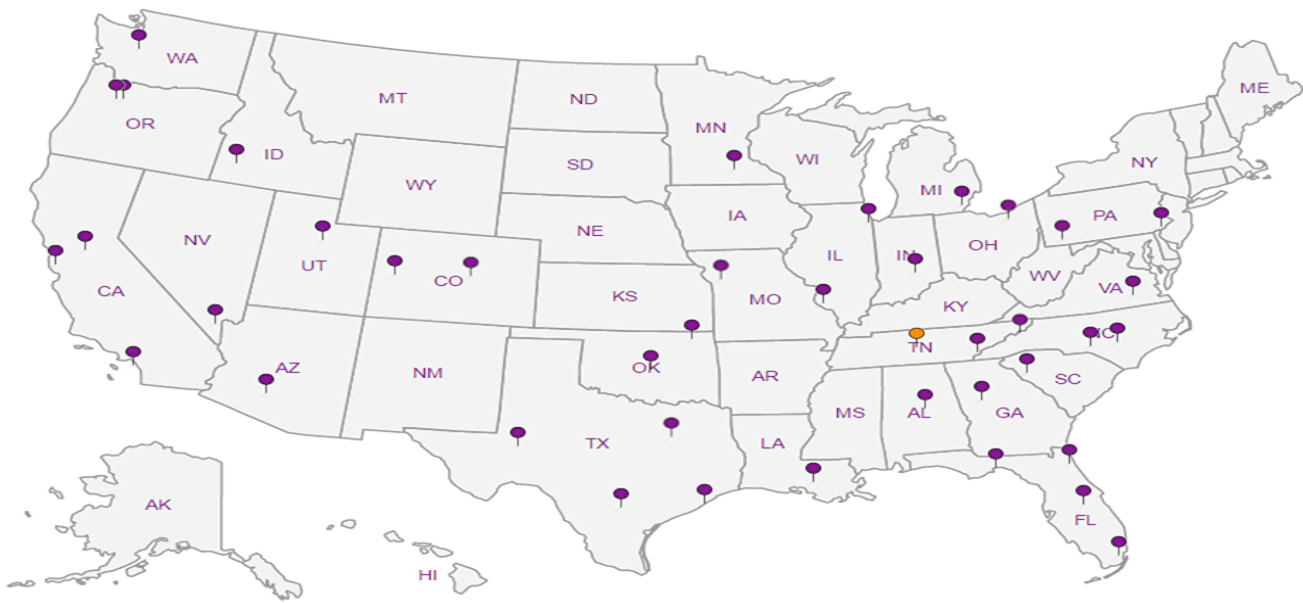
State Accreditations

EPA-Crypto                      TN00003

<sup>1</sup> Drinking Water   <sup>2</sup> Underground Storage Tanks   <sup>3</sup> Aquatic Toxicity   <sup>4</sup> Chemical/Microbiological   <sup>5</sup> Mold   <sup>6</sup> Wastewater   n/a Accreditation not applicable

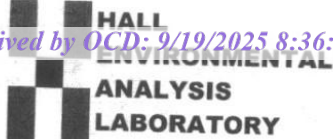
Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



## CHAIN OF CUSTODY RECORD

PAGE: 1 OF: 1



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975  
FAX: 505-345-4107  
Website: www.hallenvironmental.com

D126

SUB CONTRACTOR: <b>ESC PACE</b>		COMPANY: <b>ESC PACE</b>		PHONE: <b>(800) 767-5859</b>		FAX: <b>(615) 758-5859</b>	
ADDRESS: <b>12065 Lebanon Rd</b>				ACCOUNT #:			
CITY, STATE, ZIP: <b>Mt. Juliet, TN 37122</b>				EMAIL:			

ITEM	SAMPLE	CLIENT SAMPLE ID	BOTTLE TYPE	MATRIX	COLLECTION DATE	# CONTAINERS	ANALYTICAL COMMENTS
1	2001435-005A	20200108C1VZ COMP	4OZGU	Soil	1/8/2020 9:31:00 AM	1	Thallium ***5DAY TAT
2	2001435-010A	20200108C2VZ COMP	4OZGU	Soil	1/8/2020 10:10:00 AM	1	Thallium ***5DAY TAT
3	2001435-013A	20200108C3VZ COMP	4OZGU	Soil	1/8/2020 11:35:00 AM	1	Thallium ***5DAY TAT
4	2001435-018A	20200108C4VZ COMP	4OZGU	Soil	1/8/2020 2:40:00 PM	1	Thallium ***5DAY TAT
5	2001435-023A	20200108C5VZ COMP	4OZGU	Soil	1/8/2020 12:30:00 PM	1	Thallium ***5DAY TAT
6	2001435-028A	20200108C6VZ COMP	4OZGU	Soil	1/8/2020 4:17:00 PM	1	Thallium ***5DAY TAT
7	2001435-034A	20200108C7VZ COMP	4OZGU	Soil	1/8/2020 4:39:00 PM	1	Thallium ***5DAY TAT
8	2001435-039A	20200109C8VZ COMP	4OZGU	Soil	1/9/2020 9:05:00 AM	1	Thallium ***5DAY TAT
9	2001435-042A	20200109C9VZ COMP	4OZGU	Soil	1/9/2020 9:19:00 AM	1	Thallium ***5DAY TAT
10	2001435-047A	20200109C10VZ COMP	4OZGU	Soil	1/9/2020 9:50:00 AM	1	Thallium ***5DAY TAT
11	2001435-052A	20200109C11VZ COMP	4OZGU	Soil	1/9/2020 10:16:00 AM	1	Thallium ***5DAY TAT
12	2001435-057A	20200109C12VZ COMP	4OZGU	Soil	1/9/2020 10:41:00 AM	1	Thallium ***5DAY TAT
13	2001435-061A	20200109C131415 COMP	4OZGU	Soil	1/9/2020 10:59:00 AM	1	Thallium ***5DAY TAT


## SPECIAL INSTRUCTIONS / COMMENTS:

Please include the LAB ID and the CLIENT SAMPLE ID on all final reports. Please e-mail results to lab@hallenvironmental.com. Please return all coolers and blue ice. Thank you.

Relinquished By: <i>LB</i>	Date: <i>1/23/2020</i>	Time: <i>11:48 AM</i>	Received By: <i>Harley M</i>	Date: <i>1/21/2020</i>	Time: <i>9:00</i>
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

TAT: Standard <input type="checkbox"/> <b>RUSH</b> Next BD <input type="checkbox"/> 2nd BD <input type="checkbox"/> 3rd BD <input type="checkbox"/>		REPORT TRANSMITTAL DESIRED: <input type="checkbox"/> HARDCOPY (extra cost) <input type="checkbox"/> FAX <input type="checkbox"/> EMAIL <input type="checkbox"/> ONLINE	
Temp of samples <i>1, 1-5-206 c</i> Attempt to Cool ? <i>ASR</i>		FOR LAB USE ONLY Comments: <b>RAD SCREEN: &lt;0.5 mR/hr</b> <i>Coast</i>	

**4510 166A 2384**

Pace Analytical National Center for Testing & Innovation Cooler Receipt Form			
Client:	HALLENVANM		L 1182722
Cooler Received/Opened On:	1/24/20	Temperature:	0.6
Received By:	Hailey Melson		
Signature:			
<b>Receipt Check List</b>			
	NP	Yes	No
COC Seal Present / Intact?		/	
COC Signed / Accurate?		/	
Bottles arrive intact?		/	
Correct bottles used?		/	
Sufficient volume sent?		/	
If Applicable		/	
VOA Zero headspace?			
Preservation Correct / Checked?			



**QC SUMMARY REPORT**

WO#: 2001435

**Hall Environmental Analysis Laboratory, Inc.**

28-Jan-20

**Client:** Environmental Plus, Inc  
**Project:** EPI Vadose Zone Monitoring

Sample ID: <b>MB-49819</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>49819</b>	RunNo: <b>65835</b>								
Prep Date: <b>1/15/2020</b>	Analysis Date: <b>1/15/2020</b>	SeqNo: <b>2260819</b>		Units: <b>mg/Kg</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-49819</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>49819</b>	RunNo: <b>65835</b>								
Prep Date: <b>1/15/2020</b>	Analysis Date: <b>1/15/2020</b>	SeqNo: <b>2260820</b>		Units: <b>mg/Kg</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.9	90	110			

Sample ID: <b>MB-49827</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>49827</b>	RunNo: <b>65835</b>								
Prep Date: <b>1/15/2020</b>	Analysis Date: <b>1/15/2020</b>	SeqNo: <b>2260855</b>		Units: <b>mg/Kg</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-49827</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>49827</b>	RunNo: <b>65835</b>								
Prep Date: <b>1/15/2020</b>	Analysis Date: <b>1/15/2020</b>	SeqNo: <b>2260856</b>		Units: <b>mg/Kg</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.1	90	110			

Sample ID: <b>MB-49854</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>49854</b>	RunNo: <b>65853</b>								
Prep Date: <b>1/16/2020</b>	Analysis Date: <b>1/16/2020</b>	SeqNo: <b>2262297</b>		Units: <b>mg/Kg</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

**QC SUMMARY REPORT**

WO#: 2001435

**Hall Environmental Analysis Laboratory, Inc.**

28-Jan-20

**Client:** Environmental Plus, Inc**Project:** EPI Vadose Zone Monitoring

Sample ID: <b>MB-49898</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>49898</b>	RunNo: <b>65885</b>								
Prep Date: <b>1/17/2020</b>	Analysis Date: <b>1/17/2020</b>	SeqNo: <b>2262633</b>		Units: <b>mg/Kg</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sample ID: <b>LCS-49854</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>49854</b>	RunNo: <b>65853</b>								
Prep Date: <b>1/16/2020</b>	Analysis Date: <b>1/16/2020</b>	SeqNo: <b>2262298</b>		Units: <b>mg/Kg</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.4	90	110			
Chloride	ND	1.5								

Sample ID: <b>LCS-49898</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>49898</b>	RunNo: <b>65885</b>								
Prep Date: <b>1/17/2020</b>	Analysis Date: <b>1/17/2020</b>	SeqNo: <b>2262634</b>		Units: <b>mg/Kg</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.6	90	110			

Sample ID: <b>MB-49898</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>49898</b>	RunNo: <b>65902</b>								
Prep Date: <b>1/17/2020</b>	Analysis Date: <b>1/20/2020</b>	SeqNo: <b>2264199</b>		Units: <b>mg/Kg</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-49898</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>49898</b>	RunNo: <b>65902</b>								
Prep Date: <b>1/17/2020</b>	Analysis Date: <b>1/20/2020</b>	SeqNo: <b>2264200</b>		Units: <b>mg/Kg</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.7	90	110			
Diesel Range Organics (DRO)	47	10	50.00	0	94.6	63.9	124			
Surr: DNOP	3.9		5.000		77.8	55.1	146			

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

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**QC SUMMARY REPORT**

WO#: 2001435

**Hall Environmental Analysis Laboratory, Inc.**

28-Jan-20

**Client:** Environmental Plus, Inc  
**Project:** EPI Vadose Zone Monitoring

Sample ID: <b>LCS-49776</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>49776</b>	RunNo: <b>65773</b>								
Prep Date: <b>1/13/2020</b>	Analysis Date: <b>1/14/2020</b>	SeqNo: <b>2259053</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sample ID: <b>MB-49776</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>49776</b>	RunNo: <b>65773</b>								
Prep Date: <b>1/13/2020</b>	Analysis Date: <b>1/14/2020</b>	SeqNo: <b>2259056</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.7		10.00		87.1	55.1	146			

Sample ID: <b>2001435-003AMS</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>20200108C1VZ NE</b>	Batch ID: <b>49802</b>	RunNo: <b>65797</b>								
Prep Date: <b>1/14/2020</b>	Analysis Date: <b>1/15/2020</b>	SeqNo: <b>2259891</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	56	9.8	49.07	2.278	110	47.4	136			
Surr: DNOP	4.6		4.907		93.2	55.1	146			

Sample ID: <b>2001435-003AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>20200108C1VZ NE</b>	Batch ID: <b>49802</b>	RunNo: <b>65797</b>								
Prep Date: <b>1/14/2020</b>	Analysis Date: <b>1/15/2020</b>	SeqNo: <b>2259892</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	10	49.90	2.278	102	47.4	136	5.13	43.4	
Surr: DNOP	4.6		4.990		92.7	55.1	146	0	0	

Sample ID: <b>2001435-017AMS</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>20200108C4VZ NE</b>	Batch ID: <b>49810</b>	RunNo: <b>65797</b>								
Prep Date: <b>1/14/2020</b>	Analysis Date: <b>1/15/2020</b>	SeqNo: <b>2259904</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	9.4	47.04	2.004	97.7	47.4	136			
Surr: DNOP	4.3		4.704		92.3	55.1	146			
Diesel Range Organics (DRO)	51	10	50.05	2.004	97.6	47.4	136	5.81	43.4	
Surr: DNOP	4.4		5.005		87.6	55.1	146	0	0	

**Qualifiers:**

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not In Range
PQL Practical Quantitative Limit	RL Reporting Limit
S % Recovery outside of range due to dilution or matrix	

**QC SUMMARY REPORT**

WO#: 2001435

**Hall Environmental Analysis Laboratory, Inc.**

28-Jan-20

**Client:** Environmental Plus, Inc  
**Project:** EPI Vadose Zone Monitoring

Sample ID: **2001435-017AMSD** SampType: **MSD** TestCode: **EPA Method 8015M/D: Diesel Range Organics**Client ID: **20200108C4VZ NE** Batch ID: **49810** RunNo: **65797**Prep Date: **1/14/2020** Analysis Date: **1/15/2020** SeqNo: **2259905** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Sample ID: **LCS-49802** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**Client ID: **LCSS** Batch ID: **49802** RunNo: **65797**Prep Date: **1/14/2020** Analysis Date: **1/15/2020** SeqNo: **2259907** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Diesel Range Organics (DRO)	63	10	50.00	0	127	63.9	124			S
Surr: DNOP	5.5		5.000		110	55.1	146			

Sample ID: **LCS-49810** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**Client ID: **LCSS** Batch ID: **49810** RunNo: **65797**Prep Date: **1/14/2020** Analysis Date: **1/15/2020** SeqNo: **2259908** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Diesel Range Organics (DRO)	49	10	50.00	0	98.6	63.9	124			
Surr: DNOP	4.0		5.000		80.2	55.1	146			

Sample ID: **MB-49802** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**Client ID: **PBS** Batch ID: **49802** RunNo: **65797**Prep Date: **1/14/2020** Analysis Date: **1/15/2020** SeqNo: **2259909** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	12		10.00		120	55.1	146			

Sample ID: **MB-49810** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**Client ID: **PBS** Batch ID: **49810** RunNo: **65797**Prep Date: **1/14/2020** Analysis Date: **1/15/2020** SeqNo: **2259910** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.7		10.00		87.1	55.1	146			

**Qualifiers:**

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not In Range
PQL Practical Quantitative Limit	RL Reporting Limit
S % Recovery outside of range due to dilution or matrix	

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**QC SUMMARY REPORT**

WO#: 2001435

**Hall Environmental Analysis Laboratory, Inc.**

28-Jan-20

**Client:** Environmental Plus, Inc**Project:** EPI Vadose Zone Monitoring

Sample ID: <b>LCS-49817</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>49817</b>			RunNo: <b>65840</b>						
Prep Date: <b>1/15/2020</b>	Analysis Date: <b>1/16/2020</b>			SeqNo: <b>2261199</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	98.0	63.9	124			
Surr: DNOP	4.0		5.000		80.7	55.1	146			

Sample ID: <b>MB-49817</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>						
Client ID: <b>PBS</b>	Batch ID: <b>49817</b>			RunNo: <b>65840</b>						
Prep Date: <b>1/15/2020</b>	Analysis Date: <b>1/16/2020</b>			SeqNo: <b>2261202</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.8		10.00		97.6	55.1	146			

Sample ID: <b>2001435-037AMS</b>	SampType: <b>MS</b>			TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>						
Client ID: <b>20200108C8VZ NE</b>	Batch ID: <b>49817</b>			RunNo: <b>65840</b>						
Prep Date: <b>1/15/2020</b>	Analysis Date: <b>1/16/2020</b>			SeqNo: <b>2261616</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	9.5	47.30	2.333	95.2	47.4	136			
Surr: DNOP	4.0		4.730		84.1	55.1	146			

Sample ID: <b>2001435-037AMSD</b>	SampType: <b>MSD</b>			TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>						
Client ID: <b>20200108C8VZ NE</b>	Batch ID: <b>49817</b>			RunNo: <b>65840</b>						
Prep Date: <b>1/15/2020</b>	Analysis Date: <b>1/16/2020</b>			SeqNo: <b>2261617</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	9.9	49.65	2.333	94.5	47.4	136	3.91	43.4	
Surr: DNOP	4.1	4.965	83.4	55.1	146	0	0 Gasoline Range Organics (GRO)	ND	5.0	
Surr: BFB	900		1000		89.8	66.6	105			

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

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**QC SUMMARY REPORT**

WO#: 2001435

**Hall Environmental Analysis Laboratory, Inc.**

28-Jan-20

**Client:** Environmental Plus, Inc  
**Project:** EPI Vadose Zone Monitoring

Sample ID: <b>mb-49771</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>49771</b>	RunNo: <b>65777</b>								
Prep Date: <b>1/13/2020</b>	Analysis Date: <b>1/14/2020</b>	SeqNo: <b>2259101</b>		Units: <b>mg/Kg</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sample ID: <b>lcs-49771</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>49771</b>	RunNo: <b>65777</b>								
Prep Date: <b>1/13/2020</b>	Analysis Date: <b>1/14/2020</b>	SeqNo: <b>2259108</b>		Units: <b>mg/Kg</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	100	80	120			
Surr: BFB	1100		1000		108	66.6	105			S

Sample ID: <b>mb-49809</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>49809</b>	RunNo: <b>65821</b>								
Prep Date: <b>1/14/2020</b>	Analysis Date: <b>1/15/2020</b>	SeqNo: <b>2260376</b>		Units: <b>mg/Kg</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	830		1000		82.6	66.6	105			

Sample ID: <b>lcs-49809</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>49809</b>	RunNo: <b>65821</b>								
Prep Date: <b>1/14/2020</b>	Analysis Date: <b>1/15/2020</b>	SeqNo: <b>2260377</b>		Units: <b>mg/Kg</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	94.7	80	120			
Surr: BFB	950		1000		95.3	66.6	105			

Sample ID: <b>2001435-037ams</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>20200108C8VZ NE</b>	Batch ID: <b>49809</b>	RunNo: <b>65821</b>								
Prep Date: <b>1/14/2020</b>	Analysis Date: <b>1/15/2020</b>	SeqNo: <b>2260379</b>		Units: <b>mg/Kg</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	24.75	0	103	69.1	142			
Surr: BFB	910		990.1		92.1	66.6	105			

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

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**QC SUMMARY REPORT**

WO#: 2001435

**Hall Environmental Analysis Laboratory, Inc.**

28-Jan-20

**Client:** Environmental Plus, Inc  
**Project:** EPI Vadose Zone Monitoring

Sample ID: <b>2001435-037amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>20200108C8VZ NE</b>	Batch ID: <b>49809</b>	RunNo: <b>65821</b>								
Prep Date: <b>1/14/2020</b>	Analysis Date: <b>1/15/2020</b>	SeqNo: <b>2260380</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sample ID: <b>2001435-037amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>20200108C8VZ NE</b>	Batch ID: <b>49809</b>	RunNo: <b>65821</b>								
Prep Date: <b>1/14/2020</b>	Analysis Date: <b>1/15/2020</b>	SeqNo: <b>2260380</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	4.9	24.65	0	104	69.1	142	0.418	20	
Surr: BFB	900		986.2		91.2	66.6	105	0	0	

Sample ID: <b>mb-49808</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>49808</b>	RunNo: <b>65822</b>								
Prep Date: <b>1/14/2020</b>	Analysis Date: <b>1/15/2020</b>	SeqNo: <b>2260432</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	960		1000		95.8	66.6	105			

Sample ID: <b>lcs-49808</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>49808</b>	RunNo: <b>65822</b>								
Prep Date: <b>1/14/2020</b>	Analysis Date: <b>1/15/2020</b>	SeqNo: <b>2260433</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	105	80	120			
Surr: BFB	1100		1000		106	66.6	105			S

**Qualifiers:**

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

**QC SUMMARY REPORT**

WO#: 2001435

**Hall Environmental Analysis Laboratory, Inc.**

28-Jan-20

**Client:** Environmental Plus, Inc  
**Project:** EPI Vadose Zone Monitoring

Sample ID: <b>mb-49771</b>		SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>					
Client ID: <b>PBS</b>		Batch ID: <b>49771</b>			RunNo: <b>65777</b>					
Prep Date: <b>1/13/2020</b>		Analysis Date: <b>1/14/2020</b>			SeqNo: <b>2259151</b>		Units: <b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.93		1.000		93.3	80	120			

Sample ID: <b>LCS-49771</b>		SampType: <b>LCS</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>					
Client ID: <b>LCSS</b>	Batch ID: <b>49771</b>			RunNo: <b>65777</b>						
Prep Date: <b>1/13/2020</b>	Analysis Date: <b>1/14/2020</b>			SeqNo: <b>2259152</b>			Units: <b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	101	80	120			
Toluene	0.99	0.050	1.000	0	98.8	80	120			
Ethylbenzene	0.99	0.050	1.000	0	98.7	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.6	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		104	80	120			

Sample ID: <b>mb-49809</b>		SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>					
Client ID: <b>PBS</b>	Batch ID: <b>49809</b>			RunNo: <b>65821</b>						
Prep Date: <b>1/14/2020</b>	Analysis Date: <b>1/15/2020</b>			SeqNo: <b>2260405</b>			Units: <b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.93		1.000		93.2	80	120			

**Qualifiers:**

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not In Range
PQL Practical Quantitative Limit	RL Reporting Limit
S % Recovery outside of range due to dilution or matrix	

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**QC SUMMARY REPORT**

WO#: 2001435

**Hall Environmental Analysis Laboratory, Inc.**

28-Jan-20

**Client:** Environmental Plus, Inc  
**Project:** EPI Vadose Zone Monitoring

Sample ID: 2001435-038ams		SampType: MS			TestCode: EPA Method 8021B: Volatiles					
Client ID:	20200109C8VZ SE	Batch ID: 49809			RunNo: 65821					
Prep Date:	1/14/2020	Analysis Date: 1/15/2020			SeqNo: 2260409		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sample ID: LCS-49809		SampType: LCS			TestCode: EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID: 49809			RunNo: 65821					
Prep Date:	1/14/2020	Analysis Date: 1/15/2020			SeqNo: 2260406		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.025	1.000	0	97.1	80	120			
Toluene	0.97	0.050	1.000	0	96.8	80	120			
Ethylbenzene	0.96	0.050	1.000	0	95.8	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.8	80	120			
Surr: 4-Bromofluorobenzene	0.95		1.000		94.7	80	120			

Benzene	1.0	0.024	0.9579	0	105	78.5	119			
Toluene	1.0	0.048	0.9579	0.01093	106	75.7	123			
Ethylbenzene	1.0	0.048	0.9579	0	108	74.3	126			
Xylenes, Total	3.1	0.096	2.874	0.01789	108	72.9	130			
Surr: 4-Bromofluorobenzene	0.93		0.9579		97.1	80	120			

Sample ID: 2001435-038amsd		SampType: MSD		TestCode: EPA Method 8021B: Volatiles						
Client ID:	20200109C8VZ SE	Batch ID: 49809		RunNo: 65821						
Prep Date:	1/14/2020	Analysis Date: 1/15/2020		SeqNo: 2260410		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	0.9852	0	101	78.5	119	1.06	20	
Toluene	1.0	0.049	0.9852	0.01093	103	75.7	123	0.662	20	
Ethylbenzene	1.0	0.049	0.9852	0	104	74.3	126	0.621	20	
Xylenes, Total	3.1	0.099	2.956	0.01789	105	72.9	130	0.154	20	
Surr: 4-Bromofluorobenzene	0.96		0.9852		97.3	80	120	0	0	

Sample ID: <b>mb-49808</b>		SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>					
Client ID: <b>PBS</b>		Batch ID: <b>49808</b>			RunNo: <b>65822</b>					
Prep Date: <b>1/14/2020</b>		Analysis Date: <b>1/15/2020</b>			SeqNo: <b>2260480</b>		Units: <b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

**Qualifiers:**

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not In Range
PQL Practical Quantitative Limit	RL Reporting Limit
S % Recovery outside of range due to dilution or matrix	

**QC SUMMARY REPORT**

WO#: 2001435

**Hall Environmental Analysis Laboratory, Inc.**

28-Jan-20

**Client:** Environmental Plus, Inc  
**Project:** EPI Vadose Zone Monitoring

Sample ID: <b>2001435-017ams</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>20200108C4VZ NE</b>	Batch ID: <b>49808</b>	RunNo: <b>65822</b>								
Prep Date: <b>1/14/2020</b>	Analysis Date: <b>1/15/2020</b>	SeqNo: <b>2260483</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.98		1.000		97.9	80	120			

Sample ID: <b>LCS-49808</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>49808</b>	RunNo: <b>65822</b>								
Prep Date: <b>1/14/2020</b>	Analysis Date: <b>1/15/2020</b>	SeqNo: <b>2260481</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	99.6	80	120			
Toluene	0.98	0.050	1.000	0	98.2	80	120			
Ethylbenzene	1.0	0.050	1.000	0	99.8	80	120			
Xylenes, Total	3.0	0.10	3.000	0	100	80	120			
Surr: 4-Bromofluorobenzene	0.97		1.000		97.0	80	120			

Benzene	0.97	0.024	0.9643	0	101	78.5	119			
Toluene	1.0	0.048	0.9643	0.005488	105	75.7	123			
Ethylbenzene	1.1	0.048	0.9643	0	109	74.3	126			
Xylenes, Total	3.1	0.096	2.893	0.01755	107	72.9	130			
Surr: 4-Bromofluorobenzene	0.92		0.9643		95.9	80	120			

Sample ID: <b>2001435-017amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>20200108C4VZ NE</b>	Batch ID: <b>49808</b>	RunNo: <b>65822</b>								
Prep Date: <b>1/14/2020</b>	Analysis Date: <b>1/15/2020</b>	SeqNo: <b>2260484</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.024	0.9643	0	102	78.5	119	1.38	20	
Toluene	1.0	0.048	0.9643	0.005488	106	75.7	123	0.554	20	
Ethylbenzene	1.1	0.048	0.9643	0	110	74.3	126	0.753	20	
Xylenes, Total	3.1	0.096	2.893	0.01755	108	72.9	130	1.24	20	
Surr: 4-Bromofluorobenzene	0.94		0.9643		97.7	80	120	0	0	
Mercury	ND	0.033								

**Qualifiers:**

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

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**QC SUMMARY REPORT**

WO#: 2001435

**Hall Environmental Analysis Laboratory, Inc.**

28-Jan-20

**Client:** Environmental Plus, Inc**Project:** EPI Vadose Zone Monitoring

Sample ID: <b>MB-49772</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 7471: Mercury</b>								
Client ID: <b>PBS</b>	Batch ID: <b>49772</b>	RunNo: <b>65742</b>								
Prep Date: <b>1/13/2020</b>	Analysis Date: <b>1/13/2020</b>	SeqNo: <b>2257836</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sample ID: <b>LCS-49772</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 7471: Mercury</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>49772</b>	RunNo: <b>65742</b>								
Prep Date: <b>1/13/2020</b>	Analysis Date: <b>1/13/2020</b>	SeqNo: <b>2257838</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.17	0.033	0.1667	0	101	80	120			

Sample ID: <b>LCSLL-49772</b>	SampType: <b>LCSLL</b>	TestCode: <b>EPA Method 7471: Mercury</b>								
Client ID: <b>BatchQC</b>	Batch ID: <b>49772</b>	RunNo: <b>65742</b>								
Prep Date: <b>1/13/2020</b>	Analysis Date: <b>1/13/2020</b>	SeqNo: <b>2257867</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.033	0.006660	0	49.9	70	130			S

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

**QC SUMMARY REPORT**

WO#: 2001435

**Hall Environmental Analysis Laboratory, Inc.**

28-Jan-20

**Client:** Environmental Plus, Inc**Project:** EPI Vadose Zone Monitoring

Sample ID: <b>MB-49793</b>		SampType: <b>MBLK</b>		TestCode: <b>EPA Method 6010B: Soil Metals</b>						
Client ID: <b>PBS</b>		Batch ID: <b>49793</b>		RunNo: <b>65839</b>						
Prep Date: <b>1/14/2020</b>		Analysis Date: <b>1/15/2020</b>		SeqNo: <b>2261121</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Antimony	ND	2.5
Barium	ND	0.10
Beryllium	ND	0.15
Cadmium	ND	0.10
Chromium	ND	0.30
Copper	ND	0.30
Lead	ND	0.25
Manganese	ND	0.10
Selenium	ND	2.5
Silver	ND	0.25
Zinc	ND	2.5

Sample ID: <b>LCS-49793</b>		SampType: <b>LCS</b>			TestCode: <b>EPA Method 6010B: Soil Metals</b>					
Client ID:	<b>LCSS</b>	Batch ID: <b>49793</b>			RunNo: <b>65839</b>					
Prep Date:	<b>1/14/2020</b>	Analysis Date: <b>1/15/2020</b>			SeqNo: <b>2261123</b>		Units: <b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	24	2.5	25.00	0	96.3	80	120			
Barium	24	0.10	25.00	0	98.0	80	120			
Beryllium	25	0.15	25.00	0	99.5	80	120			
Cadmium	25	0.10	25.00	0	98.6	80	120			
Chromium	24	0.30	25.00	0	97.9	80	120			
Copper	26	0.30	25.00	0	105	80	120			
Lead	25	0.25	25.00	0	99.1	80	120			
Manganese	25	0.10	25.00	0	98.4	80	120			
Selenium	22	2.5	25.00	0	89.2	80	120			
Silver	5.0	0.25	5.000	0	100	80	120			
Zinc	23	2.5	25.00	0	94.0	80	120			

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

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**QC SUMMARY REPORT**

WO#: 2001435

**Hall Environmental Analysis Laboratory, Inc.**

28-Jan-20

**Client:** Environmental Plus, Inc  
**Project:** EPI Vadose Zone Monitoring

Sample ID: <b>2001435-005AMS</b>		SampType: <b>MS</b>		TestCode: <b>EPA Method 6010B: Soil Metals</b>						
Client ID: <b>20200108C1VZ CO</b>		Batch ID: <b>49793</b>		RunNo: <b>65839</b>						
Prep Date: <b>1/14/2020</b>		Analysis Date: <b>1/15/2020</b>		SeqNo: <b>2261143</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sample ID: <b>2001435-005AMS</b>		SampType: <b>MS</b>		TestCode: <b>EPA Method 6010B: Soil Metals</b>						
Client ID: <b>20200108C1VZ CO</b>		Batch ID: <b>49793</b>		RunNo: <b>65839</b>						
Prep Date: <b>1/14/2020</b>		Analysis Date: <b>1/15/2020</b>		SeqNo: <b>2261143</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Beryllium	24	0.31	25.60	0.2683	92.6	75	125			
Cadmium	24	0.20	25.60	0	94.9	75	125			
Chromium	26	0.61	25.60	2.981	88.0	75	125			
Copper	28	0.61	25.60	1.374	106	75	125			
Lead	22	0.51	25.60	0	85.0	75	125			
Manganese	45	0.20	25.60	21.93	90.3	75	125			
Silver	8.2	0.51	5.120	2.596	109	75	125			
Zinc	27	5.1	25.60	6.049	83.7	75	125			

Sample ID: <b>2001435-005AMSD</b>		SampType: <b>MSD</b>		TestCode: <b>EPA Method 6010B: Soil Metals</b>						
Client ID: <b>20200108C1VZ CO</b>		Batch ID: <b>49793</b>		RunNo: <b>65839</b>						
Prep Date: <b>1/14/2020</b>		Analysis Date: <b>1/15/2020</b>		SeqNo: <b>2261144</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Beryllium	24	0.30	25.06	0.2683	93.0	75	125	1.69	20	
Cadmium	24	0.20	25.06	0	94.8	75	125	2.21	20	
Chromium	25	0.60	25.06	2.981	88.5	75	125	1.42	20	
Copper	28	0.60	25.06	1.374	107	75	125	1.19	20	
Lead	21	0.50	25.06	0	82.5	75	125	5.12	20	
Manganese	49	0.20	25.06	21.93	107	75	125	7.85	20	
Silver	7.8	0.50	5.011	2.596	105	75	125	4.26	20	
Zinc	27	5.0	25.06	6.049	83.6	75	125	1.81	20	

Sample ID: <b>MB-49793</b>		SampType: <b>MBLK</b>		TestCode: <b>EPA Method 6010B: Soil Metals</b>						
Client ID: <b>PBS</b>		Batch ID: <b>49793</b>		RunNo: <b>65839</b>						
Prep Date: <b>1/14/2020</b>		Analysis Date: <b>1/15/2020</b>		SeqNo: <b>2261154</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Iron	3.3	2.5								

**Qualifiers:**

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

**QC SUMMARY REPORT**

WO#: 2001435

**Hall Environmental Analysis Laboratory, Inc.**

28-Jan-20

**Client:** Environmental Plus, Inc  
**Project:** EPI Vadose Zone Monitoring

Sample ID: <b>LCS-49793</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 6010B: Soil Metals</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>49793</b>	RunNo: <b>65916</b>								
Prep Date: <b>1/14/2020</b>	Analysis Date: <b>1/20/2020</b>	SeqNo: <b>2263537</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sample ID: <b>LCS-49793</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 6010B: Soil Metals</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>49793</b>	RunNo: <b>65839</b>								
Prep Date: <b>1/14/2020</b>	Analysis Date: <b>1/15/2020</b>	SeqNo: <b>2261156</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Iron	27	2.5	25.00	0	110	80	120			B

Sample ID: <b>MB-49793</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 6010B: Soil Metals</b>								
Client ID: <b>PBS</b>	Batch ID: <b>49793</b>	RunNo: <b>65916</b>								
Prep Date: <b>1/14/2020</b>	Analysis Date: <b>1/20/2020</b>	SeqNo: <b>2263535</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	2.5								
Arsenic	24	2.5	25.00	0	94.9	80	120			

Sample ID: <b>2001435-005AMS</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 6010B: Soil Metals</b>								
Client ID: <b>20200108C1VZ CO</b>	Batch ID: <b>49793</b>	RunNo: <b>65916</b>								
Prep Date: <b>1/14/2020</b>	Analysis Date: <b>1/20/2020</b>	SeqNo: <b>2263556</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	28	5.1	25.60	4.481	92.7	75	125			
Barium 260 0.20 25.60 319.2 -244 75 125 S Selenium 32 5.1 25.60 0 127 75 125 S										

Sample ID: <b>2001435-005AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 6010B: Soil Metals</b>								
Client ID: <b>20200108C1VZ CO</b>	Batch ID: <b>49793</b>	RunNo: <b>65916</b>								
Prep Date: <b>1/14/2020</b>	Analysis Date: <b>1/20/2020</b>	SeqNo: <b>2263557</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	29	5.0	25.06	4.481	97.5	75	125	2.42	20	
Barium 300 0.20 25.06 319.2 -66.5 75 125 16.4 20 S Selenium 32 5.0 25.06 0 129 75 125 0.410 20 S										

**Qualifiers:**

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D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

# QC SUMMARY REPORT

WO#: 2001435

## Hall Environmental Analysis Laboratory, Inc.

28-Jan-20

Client: Environmental Plus, Inc

Project: EPI Vadose Zone Monitoring

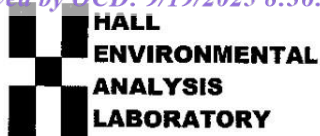
Sample ID: 2001435-005AMS		SampType: MS		TestCode: EPA Method 6010B: Soil Metals						
Client ID: 20200108C1VZ CO		Batch ID: 49793		RunNo: 65974						
Prep Date: 1/14/2020		Analysis Date: 1/22/2020		SeqNo: 2266114		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Antimony	10	5.1	25.60	0	39.8	75	125			S

Sample ID: 2001435-005AMSD		SampType: MSD		TestCode: EPA Method 6010B: Soil Metals							
Client ID: 20200108C1VZ CO		Batch ID: 49793		RunNo: 65974							
Prep Date: 1/14/2020		Analysis Date: 1/22/2020		SeqNo: 2266115				Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Antimony	10	5.0	25.06	0	40.7	75	125	0.133	20	S	

### Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

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Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: www.hallenvironmental.com

## Sample Log-In Check List

Client Name: ENVIRONMENTAL PLUS

Work Order Number: 2001435

RcptNo: 1

Received By: Daniel Marquez

1/11/2020 9:35:00 AM

Completed By: Leah Baca

1/13/2020 8:30:55 AM

Reviewed By: *LBS*

1/13/20

*[Signature]*  
*Leah Baca*

Chain of Custody

1. Is Chain of Custody sufficiently complete? Yes ☒ No ☐ Not Present ☐  
2. How was the sample delivered? Client

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐  
4. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☒ No ☐ NA ☐  
5. Sample(s) in proper container(s)? Yes ☒ No ☐  
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐  
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐  
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐  
9. Received at least 1 vial with headspace  $<1/4"$  for AQ VOA? Yes ☐ No ☐ NA ☒  
10. Were any sample containers received broken? Yes ☐ No ☒  
11. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐  
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐  
13. Is it clear what analyses were requested? Yes ☒ No ☐  
14. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes ☒ No ☐

# of preserved  
bottles checked  
for pH:  
( $<2$  or  $>12$  unless noted)

Adjusted? \_\_\_\_\_

Checked by: DAD 1/13/20Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.5	Good				
2	3.3	Good				







## Chain-of-Custody Record

Client: EPF Landfarm

Mailing Address:

Phone #: 575.631.1667email or Fax#: meeqstand67@msn.com

QA/QC Package:

☒ Standard☐ Level 4 (Full Validation)Accreditation: ☐ AZ Compliance☐ NELAC☐ Other☐ EDD (Type)

Project Manager:

Pat McCaslandSampler: PMOn Ice: ☒ Yes ☐ No# of Coolers: 2Cooler Temp (including CF): 25 + 0 = 25 (C)

Container Type and #

Preservative Type

HEAL No.

2001435Turn-Around Time: 10 day  
☒ Standard ☐ Rush

Project Name:

EPF Landfarm Monitoring

Project #:

Project Manager:

Pat McCaslandSampler: PMOn Ice: ☒ Yes ☐ No# of Coolers: 2Cooler Temp (including CF): 25 + 0 = 25 (C)

Container Type and #

Preservative Type

HEAL No.

2001435Turn-Around Time: 10 day  
☒ Standard ☐ Rush

Project Name:

EPF Landfarm Monitoring

Project #:

Project Manager:

Pat McCaslandSampler: PMOn Ice: ☒ Yes ☐ No# of Coolers: 2Cooler Temp (including CF): 25 + 0 = 25 (C)

Container Type and #

Preservative Type

HEAL No.

2001435Turn-Around Time: 10 day  
☒ Standard ☐ Rush

Project Name:

EPF Landfarm Monitoring

Project #:

Project Manager:

Pat McCaslandSampler: PMOn Ice: ☒ Yes ☐ No# of Coolers: 2Cooler Temp (including CF): 25 + 0 = 25 (C)

Container Type and #

Preservative Type

HEAL No.

2001435Turn-Around Time: 10 day  
☒ Standard ☐ Rush

Project Name:

EPF Landfarm Monitoring

Project #:

Project Manager:

Pat McCaslandSampler: PMOn Ice: ☒ Yes ☐ No# of Coolers: 2Cooler Temp (including CF): 25 + 0 = 25 (C)

Container Type and #

Preservative Type

HEAL No.

2001435Turn-Around Time: 10 day  
☒ Standard ☐ Rush

Project Name:

EPF Landfarm Monitoring

Project #:

Project Manager:

Pat McCaslandSampler: PMOn Ice: ☒ Yes ☐ No# of Coolers: 2Cooler Temp (including CF): 25 + 0 = 25 (C)

Container Type and #

Preservative Type

HEAL No.

2001435Turn-Around Time: 10 day  
☒ Standard ☐ Rush

Project Name:

EPF Landfarm Monitoring

Project #:

Project Manager:

Pat McCaslandSampler: PMOn Ice: ☒ Yes ☐ No# of Coolers: 2Cooler Temp (including CF): 25 + 0 = 25 (C)

Container Type and #

Preservative Type

HEAL No.

2001435Turn-Around Time: 10 day  
☒ Standard ☐ Rush

Project Name:

EPF Landfarm Monitoring



















Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [clients.hallenvironmental.com](http://clients.hallenvironmental.com)

November 03, 2020

Pat McCasland  
Environmental Plus, Inc  
PO Box 1558  
Eunice, NM 88231  
TEL: (575) 631-1667  
FAX:

RE: EPI Background Samples

OrderNo.: 2010424

Dear Pat McCasland:

Hall Environmental Analysis Laboratory received 8 sample(s) on 10/8/2020 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued October 19, 2020.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

## Analytical Report

Lab Order 2010424

Date Reported: 11/3/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Environmental Plus, Inc

Project: EPI Background Samples

Lab ID: 2010424-001

Matrix: SOIL

Client Sample ID: 20201007BGES

Collection Date: 10/7/2020 10:57:00 AM

Received Date: 10/8/2020 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: mb
Diesel Range Organics (DRO)	10	9.3		mg/Kg	1	10/12/2020 11:22:06 AM
Motor Oil Range Organics (MRO)	83	46		mg/Kg	1	10/12/2020 11:22:06 AM
Surr: DNOP	97.5	30.4-154		%Rec	1	10/12/2020 11:22:06 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: CAS
Chloride	ND	3.0		mg/Kg	1	10/23/2020 12:48:52 PM
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>						Analyst: DJF
Benzene	ND	0.025		mg/Kg	1	10/11/2020 6:35:31 AM
Toluene	ND	0.050		mg/Kg	1	10/11/2020 6:35:31 AM
Ethylbenzene	ND	0.050		mg/Kg	1	10/11/2020 6:35:31 AM
Xylenes, Total	ND	0.10		mg/Kg	1	10/11/2020 6:35:31 AM
Surr: 1,2-Dichloroethane-d4	105	70-130		%Rec	1	10/11/2020 6:35:31 AM
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	10/11/2020 6:35:31 AM
Surr: Dibromofluoromethane	105	70-130		%Rec	1	10/11/2020 6:35:31 AM
Surr: Toluene-d8	94.3	70-130		%Rec	1	10/11/2020 6:35:31 AM
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>						Analyst: DJF
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/11/2020 6:35:31 AM
Surr: BFB	94.5	70-130		%Rec	1	10/11/2020 6:35:31 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level
	D	Sample Diluted Due to Matrix
	H	Holding times for preparation or analysis exceeded
	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit
	S	% Recovery outside of range due to dilution or matrix

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

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## Analytical Report

Lab Order 2010424

Date Reported: 11/3/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Environmental Plus, Inc

Project: EPI Background Samples

Lab ID: 2010424-002

Matrix: SOIL

Client Sample ID: 20201007BGEN

Collection Date: 10/7/2020 11:05:00 AM

Received Date: 10/8/2020 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>BRM</b>
Diesel Range Organics (DRO)	28	8.9		mg/Kg	1	10/15/2020 1:13:21 PM
Motor Oil Range Organics (MRO)	200	44		mg/Kg	1	10/15/2020 1:13:21 PM
Surr: DNOP	95.0	30.4-154		%Rec	1	10/15/2020 1:13:21 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	ND	3.0		mg/Kg	1	10/23/2020 1:01:17 PM
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>						Analyst: <b>DJF</b>
Benzene	ND	0.024		mg/Kg	1	10/11/2020 7:04:48 AM
Toluene	ND	0.049		mg/Kg	1	10/11/2020 7:04:48 AM
Ethylbenzene	ND	0.049		mg/Kg	1	10/11/2020 7:04:48 AM
Xylenes, Total	ND	0.098		mg/Kg	1	10/11/2020 7:04:48 AM
Surr: 1,2-Dichloroethane-d4	105	70-130		%Rec	1	10/11/2020 7:04:48 AM
Surr: 4-Bromofluorobenzene	99.6	70-130		%Rec	1	10/11/2020 7:04:48 AM
Surr: Dibromofluoromethane	107	70-130		%Rec	1	10/11/2020 7:04:48 AM
Surr: Toluene-d8	98.4	70-130		%Rec	1	10/11/2020 7:04:48 AM
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>						Analyst: <b>DJF</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/11/2020 7:04:48 AM
Surr: BFB	99.5	70-130		%Rec	1	10/11/2020 7:04:48 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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## Analytical Report

Lab Order 2010424

Date Reported: 11/3/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Environmental Plus, Inc

Project: EPI Background Samples

Lab ID: 2010424-003

Matrix: SOIL

Client Sample ID: 20201007BGNE

Collection Date: 10/7/2020 11:09:00 AM

Received Date: 10/8/2020 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: mb
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/10/2020 3:59:55 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/10/2020 3:59:55 PM
Surr: DNOP	89.2	30.4-154		%Rec	1	10/10/2020 3:59:55 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: CAS
Chloride	ND	3.0		mg/Kg	1	10/23/2020 1:13:42 PM
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>						Analyst: DJF
Benzene	ND	0.025		mg/Kg	1	10/11/2020 7:34:41 AM
Toluene	ND	0.049		mg/Kg	1	10/11/2020 7:34:41 AM
Ethylbenzene	ND	0.049		mg/Kg	1	10/11/2020 7:34:41 AM
Xylenes, Total	ND	0.098		mg/Kg	1	10/11/2020 7:34:41 AM
Surr: 1,2-Dichloroethane-d4	103	70-130		%Rec	1	10/11/2020 7:34:41 AM
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	10/11/2020 7:34:41 AM
Surr: Dibromofluoromethane	105	70-130		%Rec	1	10/11/2020 7:34:41 AM
Surr: Toluene-d8	96.6	70-130		%Rec	1	10/11/2020 7:34:41 AM
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>						Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/11/2020 7:34:41 AM
Surr: BFB	97.2	70-130		%Rec	1	10/11/2020 7:34:41 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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## Analytical Report

Lab Order 2010424

Date Reported: 11/3/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Environmental Plus, Inc

Client Sample ID: 20201007BGNW

Project: EPI Background Samples

Collection Date: 10/7/2020 11:16:00 AM

Lab ID: 2010424-004

Matrix: SOIL

Received Date: 10/8/2020 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: mb
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	10/10/2020 4:09:50 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/10/2020 4:09:50 PM
Surr: DNOP	94.7	30.4-154		%Rec	1	10/10/2020 4:09:50 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: CAS
Chloride	ND	3.0		mg/Kg	1	10/23/2020 1:26:06 PM
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>						Analyst: DJF
Benzene	ND	0.024		mg/Kg	1	10/11/2020 8:06:01 AM
Toluene	ND	0.047		mg/Kg	1	10/11/2020 8:06:01 AM
Ethylbenzene	ND	0.047		mg/Kg	1	10/11/2020 8:06:01 AM
Xylenes, Total	ND	0.095		mg/Kg	1	10/11/2020 8:06:01 AM
Surr: 1,2-Dichloroethane-d4	105	70-130		%Rec	1	10/11/2020 8:06:01 AM
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	10/11/2020 8:06:01 AM
Surr: Dibromofluoromethane	109	70-130		%Rec	1	10/11/2020 8:06:01 AM
Surr: Toluene-d8	92.1	70-130		%Rec	1	10/11/2020 8:06:01 AM
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>						Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/11/2020 8:06:01 AM
Surr: BFB	97.4	70-130		%Rec	1	10/11/2020 8:06:01 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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## Analytical Report

Lab Order 2010424

Date Reported: 11/3/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Environmental Plus, Inc

Project: EPI Background Samples

Lab ID: 2010424-005

Matrix: SOIL

Client Sample ID: 20201007BGWN

Collection Date: 10/7/2020 11:35:00 AM

Received Date: 10/8/2020 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: mb
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	10/10/2020 4:19:51 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/10/2020 4:19:51 PM
Surr: DNOP	103	30.4-154		%Rec	1	10/10/2020 4:19:51 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: CAS
Chloride	ND	3.0		mg/Kg	1	10/23/2020 1:38:31 PM
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>						Analyst: DJF
Benzene	ND	0.024		mg/Kg	1	10/11/2020 8:35:46 AM
Toluene	ND	0.048		mg/Kg	1	10/11/2020 8:35:46 AM
Ethylbenzene	ND	0.048		mg/Kg	1	10/11/2020 8:35:46 AM
Xylenes, Total	ND	0.096		mg/Kg	1	10/11/2020 8:35:46 AM
Surr: 1,2-Dichloroethane-d4	105	70-130		%Rec	1	10/11/2020 8:35:46 AM
Surr: 4-Bromofluorobenzene	99.5	70-130		%Rec	1	10/11/2020 8:35:46 AM
Surr: Dibromofluoromethane	106	70-130		%Rec	1	10/11/2020 8:35:46 AM
Surr: Toluene-d8	95.0	70-130		%Rec	1	10/11/2020 8:35:46 AM
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>						Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/11/2020 8:35:46 AM
Surr: BFB	95.7	70-130		%Rec	1	10/11/2020 8:35:46 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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## Analytical Report

Lab Order 2010424

Date Reported: 11/3/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Environmental Plus, Inc

Project: EPI Background Samples

Lab ID: 2010424-006

Matrix: SOIL

Client Sample ID: 20201007BGWS

Collection Date: 10/7/2020 11:40:00 AM

Received Date: 10/8/2020 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: mb
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	10/10/2020 4:29:46 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/10/2020 4:29:46 PM
Surr: DNOP	60.6	30.4-154		%Rec	1	10/10/2020 4:29:46 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: CAS
Chloride	ND	3.0		mg/Kg	1	10/23/2020 1:50:56 PM
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>						Analyst: DJF
Benzene	ND	0.024		mg/Kg	1	10/11/2020 9:05:42 AM
Toluene	ND	0.048		mg/Kg	1	10/11/2020 9:05:42 AM
Ethylbenzene	ND	0.048		mg/Kg	1	10/11/2020 9:05:42 AM
Xylenes, Total	ND	0.097		mg/Kg	1	10/11/2020 9:05:42 AM
Surr: 1,2-Dichloroethane-d4	105	70-130		%Rec	1	10/11/2020 9:05:42 AM
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	10/11/2020 9:05:42 AM
Surr: Dibromofluoromethane	104	70-130		%Rec	1	10/11/2020 9:05:42 AM
Surr: Toluene-d8	97.3	70-130		%Rec	1	10/11/2020 9:05:42 AM
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>						Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/11/2020 9:05:42 AM
Surr: BFB	96.6	70-130		%Rec	1	10/11/2020 9:05:42 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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## Analytical Report

Lab Order 2010424

Date Reported: 11/3/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Environmental Plus, Inc

Project: EPI Background Samples

Lab ID: 2010424-007

Matrix: SOIL

Client Sample ID: 20201007BGSW

Collection Date: 10/7/2020 11:50:00 AM

Received Date: 10/8/2020 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: mb
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	10/10/2020 4:39:40 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/10/2020 4:39:40 PM
Surr: DNOP	99.4	30.4-154		%Rec	1	10/10/2020 4:39:40 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: CAS
Chloride	ND	3.0		mg/Kg	1	10/23/2020 2:03:21 PM
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>						Analyst: DJF
Benzene	ND	0.024		mg/Kg	1	10/11/2020 9:35:46 AM
Toluene	ND	0.048		mg/Kg	1	10/11/2020 9:35:46 AM
Ethylbenzene	ND	0.048		mg/Kg	1	10/11/2020 9:35:46 AM
Xylenes, Total	ND	0.096		mg/Kg	1	10/11/2020 9:35:46 AM
Surr: 1,2-Dichloroethane-d4	101	70-130		%Rec	1	10/11/2020 9:35:46 AM
Surr: 4-Bromofluorobenzene	97.3	70-130		%Rec	1	10/11/2020 9:35:46 AM
Surr: Dibromofluoromethane	102	70-130		%Rec	1	10/11/2020 9:35:46 AM
Surr: Toluene-d8	96.9	70-130		%Rec	1	10/11/2020 9:35:46 AM
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>						Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/11/2020 9:35:46 AM
Surr: BFB	95.1	70-130		%Rec	1	10/11/2020 9:35:46 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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## Analytical Report

Lab Order 2010424

Date Reported: 11/3/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Environmental Plus, Inc

Project: EPI Background Samples

Lab ID: 2010424-008

Matrix: SOIL

Client Sample ID: 20201007BGSE

Collection Date: 10/7/2020 11:55:00 AM

Received Date: 10/8/2020 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: mb
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	10/10/2020 4:49:41 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/10/2020 4:49:41 PM
Surr: DNOP	96.2	30.4-154		%Rec	1	10/10/2020 4:49:41 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: CAS
Chloride	ND	3.0		mg/Kg	1	10/23/2020 2:15:45 PM
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>						Analyst: DJF
Benzene	ND	0.024		mg/Kg	1	10/11/2020 10:05:44 AM
Toluene	ND	0.047		mg/Kg	1	10/11/2020 10:05:44 AM
Ethylbenzene	ND	0.047		mg/Kg	1	10/11/2020 10:05:44 AM
Xylenes, Total	ND	0.094		mg/Kg	1	10/11/2020 10:05:44 AM
Surr: 1,2-Dichloroethane-d4	103	70-130		%Rec	1	10/11/2020 10:05:44 AM
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	10/11/2020 10:05:44 AM
Surr: Dibromofluoromethane	105	70-130		%Rec	1	10/11/2020 10:05:44 AM
Surr: Toluene-d8	95.2	70-130		%Rec	1	10/11/2020 10:05:44 AM
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>						Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/11/2020 10:05:44 AM
Surr: BFB	96.5	70-130		%Rec	1	10/11/2020 10:05:44 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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**QC SUMMARY REPORT**

WO#: 2010424

**Hall Environmental Analysis Laboratory, Inc.**

03-Nov-20

Client: Environmental Plus, Inc

Project: EPI Background Samples

Sample ID: <b>MB-55803</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>55803</b>	RunNo: <b>72636</b>								
Prep Date: <b>10/13/2020</b>	Analysis Date: <b>10/13/2020</b>	SeqNo: <b>2550833</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-55803</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>55803</b>	RunNo: <b>72636</b>								
Prep Date: <b>10/13/2020</b>	Analysis Date: <b>10/13/2020</b>	SeqNo: <b>2550834</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.5	90	110			

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

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**QC SUMMARY REPORT**

WO#: 2010424

**Hall Environmental Analysis Laboratory, Inc.**

03-Nov-20

**Client:** Environmental Plus, Inc**Project:** EPI Background Samples

Sample ID: <b>LCS-55740</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>55740</b>	RunNo: <b>72563</b>								
Prep Date: <b>10/9/2020</b>	Analysis Date: <b>10/10/2020</b>	SeqNo: <b>2547623</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	88.8	70	130			
Surr: DNOP	4.3		5.000		85.7	30.4	154			

Sample ID: <b>MB-55740</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>55740</b>	RunNo: <b>72563</b>								
Prep Date: <b>10/9/2020</b>	Analysis Date: <b>10/10/2020</b>	SeqNo: <b>2547624</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.4		10.00		93.9	30.4	154			

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit



**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2010424

03-Nov-20

**Client:** Environmental Plus, Inc  
**Project:** EPI Background Samples

Sample ID: <b>mb-55733</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8260B: Volatiles Short List</b>							
Client ID: <b>PBS</b>	Batch ID: <b>55733</b>		RunNo: <b>72553</b>							
Prep Date: <b>10/8/2020</b>	Analysis Date: <b>10/9/2020</b>		SeqNo: <b>2547128</b>				Units: <b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.52		0.5000		104	70	130			
Surr: 4-Bromofluorobenzene	0.51		0.5000		103	70	130			
Surr: Dibromofluoromethane	0.52		0.5000		105	70	130			
Surr: Toluene-d8	0.47		0.5000		93.6	70	130			

Sample ID: <b>lcs-55733</b>	SampType: <b>LCS4</b>			TestCode: <b>EPA Method 8260B: Volatiles Short List</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>55733</b>			RunNo: <b>72553</b>						
Prep Date: <b>10/8/2020</b>	Analysis Date: <b>10/9/2020</b>			SeqNo: <b>2547129</b>			Units: <b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	105	80	120			
Toluene	1.0	0.050	1.000	0	100	80	120			
Ethylbenzene	0.98	0.050	1.000	0	97.7	80	120			
Xylenes, Total	3.0	0.10	3.000	0	101	80	120			
Surr: 1,2-Dichloroethane-d4	0.52		0.5000		104	70	130			
Surr: 4-Bromofluorobenzene	0.51		0.5000		101	70	130			
Surr: Dibromofluoromethane	0.54		0.5000		107	70	130			
Surr: Toluene-d8	0.48		0.5000		96.3	70	130			

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

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**QC SUMMARY REPORT**

WO#: 2010424

**Hall Environmental Analysis Laboratory, Inc.**

03-Nov-20

Client: Environmental Plus, Inc

Project: EPI Background Samples

Sample ID: <b>mb-55733</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>55733</b>	RunNo: <b>72553</b>								
Prep Date: <b>10/8/2020</b>	Analysis Date: <b>10/9/2020</b>	SeqNo: <b>2547154</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	480		500.0		95.8	70	130			

Sample ID: <b>lcs-55733</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>55733</b>		RunNo: <b>72553</b>							
Prep Date: <b>10/8/2020</b>	Analysis Date: <b>10/9/2020</b>		SeqNo: <b>2547155</b> Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	88.2	70	130			
Surr: BFB	470		500.0		94.0	70	130			

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level  
 D Sample Diluted Due to Matrix  
 H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 PQL Practical Quantitative Limit  
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 P Sample pH Not In Range  
 RL Reporting Limit

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Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: clients.hallenvironmental.com

## Sample Log-In Check List

Client Name: Environmental Plus, Inc

Work Order Number: 2010424

RcptNo: 1

Received By: Desiree Dominguez

10/8/2020 7:45:00 AM

Completed By: Juan Rojas

10/8/2020 9:02:42 AM

Reviewed By: JR 10/8/20

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐  
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐  
4. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☒ No ☐ NA ☐  
5. Sample(s) in proper container(s)? Yes ☒ No ☐  
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐  
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐  
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐  
9. Received at least 1 vial with headspace  $<1/4$ " for AQ VOA? Yes ☐ No ☐ NA ☒  
10. Were any sample containers received broken? Yes ☐ No ☒  
11. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐  
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐  
13. Is it clear what analyses were requested? Yes ☒ No ☐  
14. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes ☒ No ☐

# of preserved  
bottles checked  
for pH:

( $\leq 2$  or  $>12$  unless noted)

Adjusted? \_\_\_\_\_

Checked by: CRC 10/8/20

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: \_\_\_\_\_

Date: \_\_\_\_\_

By Whom: \_\_\_\_\_

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: \_\_\_\_\_

Client Instructions: \_\_\_\_\_

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.7	Good				





## ATTACHMENT 8 – Ecological Study

**To:** Jessie Barber  
101 B South Commercial  
Lovington, NM 88260

**From:** Andi Harrelson  
300 N Pennsylvania Ave, Suite 3  
Roswell, NM 88201  
575-208-3319  
USDA-NRCS

**Subject:** McCasland Land Farm (Eunice)

**Date:** September 9, 2025

On August 21, 2025, Taylor Jackson (NMACD Natural Resource Specialist), Jessie Barber (Agriculture Agent Cooperative Extension Service, Lea County), and I accompanied Mr. McCasland to evaluate the vegetative condition of his 15 fields (cells) on his land farm. We identified vegetation, estimated the pounds per acre for grass species within the fields, and compared the current conditions to what is expected for the determined ecological site description. The following tables summarize the estimated annual production and species identified during the site visit.

#### ANNUAL PRODUCTION SUMMARY

Cell Number	Ecological Site Description	Estimated Grass Production (lbs./ac.)
1	Shallow 12-17" (R077DY048TX)	750
2	Shallow 12-17" (R077DY048TX)	600
3	Shallow 12-17" (R077DY048TX)	600
4	Caliche Pit	600
5	Caliche Pit	500
6	Shallow 12-17" (R077DY048TX)	450
7	Loamy Sand (R070BD003NM)	637
8	Loamy Sand (R070BD003NM)	637
9	Loamy Sand (R070BD003NM)	850
10	Loamy Sand (R070BD003NM)	1,500
11	Loamy Sand (R070BD003NM)	637
12	Loamy Sand (R070BD003NM)	1,030
13	Loamy Sand (R070BD003NM)	450
14	Loamy Sand (R070BD003NM)	637

15	Loamy Sand (R070BD003NM)	637
----	--------------------------	-----

**SPECIES IDENTIFIED**

Cell Number	Species
1	<u>Grasses (Perennial)</u> Plains bristlegrass, sand dropseed, threeawn spp., Arizona cottontop <u>Forbs</u> Broom snakeweed, Russian thistle
2	<u>Grasses (Perennial)</u> Plains bristlegrass, sand dropseed, threeawn spp., Arizona cottontop, plains bristlegrass <u>Forbs</u> Broom snakeweed, Russian thistle
3	<u>Grasses (Perennial)</u> Plains bristlegrass, sand dropseed, threeawn spp., Arizona cottontop, plains bristlegrass <u>Forbs</u> Broom snakeweed, Russian thistle
4	<u>Grasses (Perennial)</u> Plains bristlegrass, sand dropseed, threeawn spp., Arizona cottontop, plains bristlegrass <u>Forbs</u> Broom snakeweed, Russian thistle
5	<u>Grasses (Perennial)</u> Plains bristlegrass, sand dropseed, threeawn spp., Arizona cottontop, plains bristlegrass <u>Forbs</u> Broom snakeweed, Russian thistle
6	<u>Grasses (Perennial)</u> Lehman's lovegrass, sand dropseed, threeawn spp. <u>Grasses (Annual)</u> Six-weeks grama <u>Forbs</u> Russian thistle, threadleaf groundsel <u>Shrubs</u> Mesquite
7	<u>Grasses (Perennial)</u> Lehman's lovegrass, threeawn spp., sand dropseed <u>Grasses (Annual)</u> Six-weeks grama <u>Forbs</u> Silverleaf nightshade, broom snakeweed, aster spp., annual forbs spp., threadleaf groundsel <u>Shrubs</u> Mesquite

8	<u>Grasses (Perennial)</u> Lehman's lovegrass, threeawn spp., windmill grass, sand dropseed, plains bristlegrass, little bluestem, bush muhly, Arizona cottontop <u>Grasses (Annual)</u> Six-weeks grama <u>Forbs</u> Silverleaf nightshade, aster spp., Russian thistle, hairy seed bahia <u>Shrubs</u> Catclaw, mesquite
9	<u>Grasses (Perennial)</u> Blue grama, Lehman's lovegrass, sand dropseed, threeawn spp. <u>Forbs</u> Annual forbs spp. <u>Shrubs</u> Mesquite
10	<u>Grasses (Perennial)</u> Lehman's lovegrass, sand dropseed, plains bristlegrass <u>Forbs</u> Aster spp. <u>Shrubs</u> Shrub oak
11	<u>Grasses (Perennial)</u> Sand dropseed, threeawn spp., plains bristlegrass <u>Forbs</u> Russian thistle, sandy sagebrush
12	<u>Grasses (Perennial)</u> Plains bristlegrass, sand dropseed, threeawn spp., Arizona cottontop <u>Forbs</u> Broom snakeweed, Russian thistle
13	<u>Grasses (Perennial)</u> Sand dropseed <u>Grasses (Annual)</u> Six-weeks grama <u>Forbs</u> Broom snakeweed <u>Shrubs</u> Shrub oak
14	<u>Grasses (Perennial)</u> Sand dropseed, threeawn spp., plains bristlegrass <u>Forbs</u> Russian thistle
15	<u>Grasses (Perennial)</u> Sand dropseed, threeawn spp., plains bristlegrass <u>Forbs</u> Russian thistle



Reference material includes a field map (Exhibit 1) and a soils report. Please attach photos taken during the site visit as further documentation for Mr. McCasland. If you have any further questions about the assessment, please give me a call.

Respectfully,

Andi Harrelson  
Rangeland Management Specialist  
Roswell Field Office | Team 10 p:  
(575) 208-3319

## Exhibit 1







United States  
Department of  
Agriculture

NRCS

Natural  
Resources  
Conservation  
Service

A product of the National  
Cooperative Soil Survey, a joint  
effort of the United States  
Department of Agriculture and  
other Federal agencies, State  
agencies including the  
Agricultural Experiment  
Stations, and local  
participants

# Custom Soil Resource Report for Lea County, New Mexico

McCasland/Environmental Plus, Inc.



September 9, 2025



## Preface

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Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (<http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/>) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (<https://offices.sc.egov.usda.gov/locator/app?agency=nrcs>) or your NRCS State Soil Scientist ([http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2\\_053951](http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951)).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the



Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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## How Soil Surveys Are Made

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Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil

aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property



presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.



# Soil Information for All Uses

---

## Ecological Sites

Individual soil map unit components can be correlated to a particular ecological site. The Ecological Site Assessment section includes ecological site descriptions, plant growth curves, state and transition models, and selected National Plants database information.

## All Ecological Sites —

An "ecological site" is the product of all the environmental factors responsible for its development. It has characteristic soils that have developed over time; a characteristic hydrology, particularly infiltration and runoff, that has developed over time; and a characteristic plant community (kind and amount of vegetation). The vegetation, soils, and hydrology are all interrelated. Each is influenced by the others and influences the development of the others. For example, the hydrology of the site is influenced by development of the soil and plant community. The plant community on an ecological site is typified by an association of species that differs from that of other ecological sites in the kind and/or proportion of species or in total production.

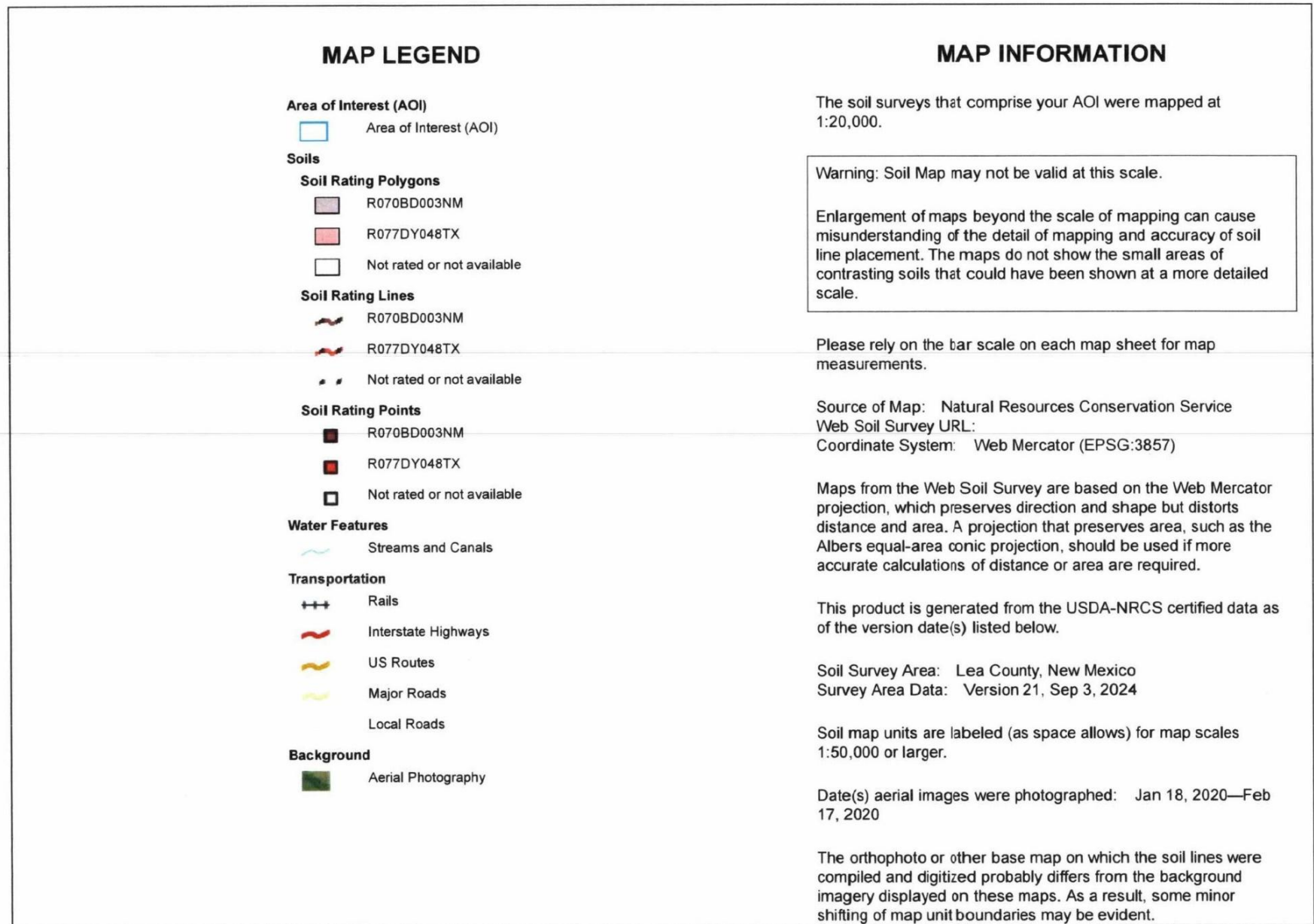
An ecological site name provides a general description of a particular ecological site. For example, "Loamy Upland" is the name of a rangeland ecological site. An "ecological site ID" is the symbol assigned to a particular ecological site.

The map identifies the dominant ecological site for each map unit, aggregated by dominant condition. Other ecological sites may occur within each map unit. Each map unit typically consists of one or more components (soils and/or miscellaneous areas). Each soil component is associated with an ecological site. Miscellaneous areas, such as rock outcrop, sand dunes, and badlands, have little or no soil material and support little or no vegetation and therefore are not linked to an ecological site. The table below the map lists all of the ecological sites for each map unit component in your area of interest.



MAP- DOMINANT ECOLOGICAL SITE

## Custom Soil Resource Report



## LEGEND — DOMINANT ECOLOGICAL SITE



TABLE—ECOLOGICAL SITES BY MAP UNIT COMPONENT

Map unit symbol	Map unit name	Component name (percent)	Ecological site	Acres in AOI	Percent of AOI
CLP	Caliche pit	Pits, caliche (100%)		7.2	15.4%
PU	Pyote and Maljamar fine sands	Pyote (46%)	R070BD003NM — Loamy Sand	19.3	41.6%
		Maljamar (44%)	R070BD003NM — Loamy Sand		
		Kermit (10%)	R070BC022NM — Sandhills		
TF	Tonuco loamy fine sand, 0 to 3 percent slopes	Tonuco (70%)	R077DY048TX — Shallow 12-17" PZ	20.0	43.0%
		Simona (15%)	R070BD002NM — Shallow Sandy		
		Berino (10%)	R070BD003NM — Loamy Sand		
		Cacique (5%)	R070BD004NM — Sandy		
Totals for Area of Interest				46.4	100.0%



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State of New Mexico  
Energy, Minerals and Natural Resources Department

---

**Michelle Lujan-Grisham**  
Governor

**Melanie A. Kenderdine**  
Cabinet Secretary

**Ben Shelton**  
Deputy Secretary

**Erin Taylor**  
Deputy Secretary

**Albert C.S. Chang**  
Division Director  
Oil Conservation Division



**ELECTRONIC MAIL ONLY**

November 12, 2025

Sherry K. Miller  
President  
Environmental Plus, Inc.  
PO Box 1558  
Eunice, New Mexico 88231  
sherry.epi@gmail.com

**RE:** Review of Minor Modification request from Environmental Plus Inc., Permit NM1-013

Dear Ms. Miller:

The Oil Conservation Division (OCD) has completed a review of the minor modification application dated September 17, 2025 and submitted by Environmental Plus, Inc. (EPI) for Permit NM1-13. The minor modification application requested alternatives/exceptions in accordance with 19.15.36.19 NMAC. The OCD hereby approves EPI's minor modification request.

If there are any questions regarding this approval with conditions, please do not hesitate to contact me at (505)549-5583 or via email at [joseph.kennedy@emnrd.nm.gov](mailto:joseph.kennedy@emnrd.nm.gov).

**Joe Kennedy** • Senior Environmental Scientist



Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/oed/contact-us>

State of New Mexico  
Energy, Minerals and Natural Resources  
Oil Conservation Division  
1220 S. St Francis Dr.  
Santa Fe, NM 87505

CONDITIONS

Action 507659

CONDITIONS

Operator: ENVIRONMENTAL PLUS INC PO Box 1748 EUNICE, NM 88231	OGRID: 195265
	Action Number: 507659
	Action Type: [C-137] SWMF Minor Modification (C-137A)

CONDITIONS

Created By	Condition	Condition Date
joseph.kennedy	See approval letter emailed to Sheri Miller (Pat McCasland cc'd) on 11/12/2025	11/12/2025