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May 30, 2018

Mr. David Hayes
Response and Remediation Programs
Land Protection Branch
Georgia Environmental Protection Division
2 Martin Luther King Jr. Drive, SE
Suite 1054 East Floyd Tower
Atlanta, GA 30334

**Re: Responses to January 26, 2018 Letter from EPD
Rheem Manufacturing Company
138 Roberson Mill Road
Milledgeville, Georgia**

Dear Mr. Hayes:

In conjunction with the submittal of the attached Voluntary Remediation Program (VRP) May 2018 Progress Report #9 for the above-reference site (the "Site"), this letter provides a response to EPD's January 26, 2018 comment letter addressing several previously submitted progress reports for the Site. The Site encompasses the former Rheem facility property (the "Facility") and other parcels affected by the trichloroethene (TCE) groundwater plume, some of which were recently acquired by Rheem as discussed in the attached progress report.

EPD Comment #1

According to Section 4.4 of the *June 2016 Progress Report*, MW-47 is proposed as a Point of Demonstration (POD) well and MW-36 is proposed as the Point of Exposure (POE). Based on the discussions held during the above referenced meeting, EPD requests that MW-34 be established as the POD well. In addition, EPD recommends that groundwater modeling data and empirical data be used to support future conclusions that the groundwater POE (MW-36) and the groundwater to surface water POE (pond adjacent to MW-36) have not and will not be impacted in the future.

Response

As requested by EPD, MW-34 will be established as the POD well. A Water Well Survey was recently conducted to evaluate the applicability of the groundwater pathway under the VRP for the Site and was submitted to EPD in a letter dated March 26, 2018. The surface water POE has been established as the pond inlet, which is the closest portion of the pond to the groundwater plume and is where flowing and/or standing water generally occur year-



round. The surface water and groundwater POEs, as required, will be evaluated in the CSR using groundwater modeling and empirical data for the Site.

EPD Comment #2

According to the most recent data, deep well MW-3B shows that the concentration of TCE in the source area is 1,600 ug/l at approximately 200 feet below ground surface (bgs). In addition, the data presented in the November 2016 report indicates a concentration of 120,000 ug/l TCE in MW-3A, which was installed to a depth of 135 feet bgs. Based on this groundwater data within the source area, vertical delineation in accordance with the Act and the referenced Consent Order is not complete. However, EPD understands that the ongoing remediation activities for groundwater are focused on the residual DNAPL within this source area, and that further groundwater monitoring data may potentially represent a reduction in the overall concentration trends in the source area. Based on the discussions held during the above referenced meeting, EPD has agreed to defer our final determination regarding compliance with the vertical delineation requirements until the completion of the in-situ bioremediation and further groundwater assessment activities.

Response

TCE detections in MW-3A (screen interval 125-135 feet deep) and MW-3B (screen interval 199-209 feet deep) represent a localized pocket of elevated concentrations, which is bounded vertically and horizontally by bedrock exhibiting a very low transmissivity. These wells appear to have been impacted by the vertical migration of TCE through nearby recovery well RW-3, which was installed to a depth of 181 feet with a long screen interval extending continuously through the saprolite, partially weathered rock, and bedrock. Data collected from other bedrock wells at the Property, including MW-12A, MW-24, MW-25, MW-26, and MW-27, indicate that the TCE plume is not migrating vertically or horizontally through bedrock at the Property and establish vertical delineation for purposes of the VRP. The localized impact of RW-3 on MW-3A and MW-3B is supported by groundwater sampling data from bedrock zones showing no significant TCE concentrations outside of the release area, pilot test injections conducted in January 2017 resulting in significantly low flow rates relative to the saprolite and partially weathered rock zones. Bioremediation media will be injected into RW-3 to reduce the elevated TCE concentrations in its immediate vicinity, prior to plugging the recovery well.

EPD Comment #3

Based on the discussions held during the above referenced meeting, in-situ bioremediation is in the beginning stages of implementation for groundwater TCE mass reduction in the Release Area Zone and the Plume Zone. Regarding the bioremediation remedy, please address the following:

- a) Please establish the remedial action objective for groundwater and provide the target VOC concentrations to be achieved after execution of the remedy. In addition, please provide the estimated timeframe to achieve the remedial target concentrations.



- b) Please provide an estimate of the quantity of injections that will be needed to achieve the target groundwater concentrations.
- c) TCE concentrations in nearby wells range from 120,000 ug/l in MW-3A at a depth of 135 feet bgs to 1,600 ug/l in MW-3B at a depth of 209 feet bgs. Please provide additional information regarding the design strategy for the bioremediation remedy, including an explanation of why the injections did not encompass the maximum depths that contamination was detected within the Release Area and Plume Zones.

Response

- a) The objective of groundwater remediation is to reduce source material to the extent practicable and reduce the potential for vapor intrusion at the Facility in the source area over the long term. The target VOC concentration is an average concentration of 10,000 µg/L in the vicinity of the source area, within three years of the injection event.
- b) The target injection volume includes 679 liters of dehalococcoides mccartyi bioremediation culture and 440,000 gallons of 6.6% emulsified vegetable oil substrate.
- c) As discussed in Response #2, TCE detections in MW-3A and MW-3B represent a localized pocket of elevated concentrations in bedrock and concentrations decrease significantly between the two depths. Bioremediation will focus on potential source material in the saprolite and the partially weathered rock zones, since these zones exhibit the highest TCE concentrations and the highest transmissivity. Bioremediation media will, however, also be injected into RW-3 to reduce the elevated TCE concentrations in nearby MW-3A and MW-3B.

EPD Comment #4

Please ensure that the final comprehensive groundwater monitoring event that will be used for the final compliance certification is conducted in accordance with EPA's approved standard sampling techniques.

Response

A comprehensive groundwater sampling event will be conducted during the summer of 2018, in lieu of the previously planned semi-annual sampling event of the monitoring wells located downgradient of the Facility and the quarterly ART performance well sampling event. During this comprehensive event, samples will be collected from a series of monitoring wells located outside the bioremediation area in accordance with the low-flow methods specified in Section 3.5 of the EPA Region 4 SESDPROC-301-R4, April 26, 2017. The specific wells to be sampled are listed in Section 7.2.1 of the May 2018 Progress Report. Wells within the area of bioremediation influence will be separately sampled as part of the performance monitoring.



EPD Comment #5

Per Comment #4 of EPD's December 14, 2015 letter to Rheem and Consent Order EPD-VRP-007, note that within 6 months of discovery, impacted parcels should be added to the VRP application as qualifying properties or EPD must be notified of the properties non-qualifying status. As part of the final VRP CSR, please explain the reasoning for not incorporating any downgradient affected properties as qualifying properties.

Response

Based on the Water Well Survey submitted to EPD for the Site, it is believed that the groundwater pathway is not required to be addressed for these properties. In addition, a vapor intrusion evaluation, included in Appendix G of the May 2018 Progress Report, indicates that the vapor pathway for properties downgradient from the Facility is incomplete. As such, no downgradient properties have been identified that would need to be incorporated into the VRP application as qualifying properties. As discussed during our meeting, however, in January 2018 Rheem acquired an approximately 45-acre parcel downgradient of the Facility that could be added as qualifying property to the Site. A survey and legal description of this additional property are included as Appendix A in the May 2018 Progress Report.

EPD Comment #6

Although the concentrations of chlorinated VOCs in off-property soil gas samples were deemed to be minimal, Section 3.2.2.3 of the *June 2017 Progress Report* indicates low levels of BTEX compounds detected in many of the off-property soil gas samples. The BTEX compounds were attributed to a documented petroleum product release from a nearby gas station. As part of the final VRP CSR, please provide the documentation associated with the release, if available, including the extent of the BTEX plume and its proximity to the Rheem chlorinated solvent plume.

Response

Available information regarding this off-Site petroleum release will be included in the CSR.

EPD Comment #7

EPD requests that the draft Uniform Environmental Covenant (UEC) referenced in Section 6.1.5 of Progress Report #5 be submitted along with the next progress report so that review of the document can be initiated. EPD's new draft UEC template is attached for your reference. At a minimum, the UEC should include the following activity and use limitations:

- a.) A requirement to implement a monitoring and maintenance plan, which should include the activities necessary to maintain the operation of engineering controls [sub-slab depressurization (SSD) system] related to onsite vapor intrusion mitigation.
- b.) Should future land use change and/or onsite structures be modified or developed in areas on the property overlying groundwater and/or soil contamination, additional vapor



intrusion assessments may be completed at that time to determine the need for any additional engineering controls and/or preconstruction mitigation.

Response

A draft Environmental Covenant is included as Appendix D in the May 2018 Progress Report.

EPD Comment #8

Groundwater flow for off-property wells presented in Figure 3 of each of the progress reports appears to be consistent; however, EPD requests that a potentiometric surface map be included in future progress reports to include groundwater elevation data from onsite wells in order to present a more comprehensive illustration of groundwater flow from the source area to the downgradient wells.

Response

A potentiometric surface map incorporating Facility and downgradient monitoring wells is included as Figure 7 in the May 2018 Progress Report.

EPD Comment #9

EPD concurs with the decommissioning of the pump and treat recovery wells and the Accelerated Remediation Technology (ART) wells, which was requested during the above referenced meeting. Please provide justification for decommissioning the wells in the next progress report.

Response

Section 7.3 of the May 2018 Progress Report discusses the decommissioning of these systems.

EPD Comment #10

It was noted during the above referenced meeting that the SVE system onsite has been shut down and that no further soil remediation is planned. Please collect and analyze soil samples throughout the source area in order to evaluate the performance of the SVE remedy and to determine the final compliance status for onsite soils.

Response

This sampling was conducted in April 2018 and is discussed in the May 2018 Progress Report. Based on the results, soils are in compliance with direct exposure Type 4 RRS. Furthermore, modeled leaching results do not exceed the target TCE groundwater clean-up concentration of 10,000 µg/L.



EPD Comment #11

Section 3.3.3.2.2 of the *June 2017 Progress Report* discusses the sub-slab soil gas sampling effort in which only 20 of the previously installed sub-slab soil gas probe locations were sampled during the December 2016 event as opposed to the 47 probes sampled during the background sampling event conducted in 2014. EPD is agreeable to the collection of 20 samples but recommends that the sample locations be located such that the results can be compared to previous results. EPD requests that the follow-up sampling event include all of the baseline locations in order to establish the trend of TCE reductions underneath the footprint of the building.

Response

EPS will collect 20 soil gas samples during the Summer or Fall of 2018. Sample locations are discussed in Section 7.2.3 of the May 2018 Progress Report.

EPD Comment #12

Please ensure that the final VRP CSR includes a comparison of off-site soil gas results to residential use criteria to address all potential off-property land use scenarios.

Response

A vapor intrusion evaluation comparing soil gas results to the appropriate use criteria is included as Appendix G in the May 2018 Progress Report.

EPD Comment #13

EPD concurs with the Risk Reduction Standards (RRS) proposed in Section 5 and Appendix F of the June 2016 Progress Report and the Off-Property VI Risk Evaluation presented in the June 2016 Progress Report, with the following stipulations:

- a.) 1,2-Dichloropropane - Please note that the toxicity factors for this regulated substance has been updated since the submittal of this document. Please refer to the most current Regional Screening Level (RSL) Table (updated June 2017) for the updated toxicity factors. Please note that this impacts the Risk Assessment Guidance for Superfund (RAGS) equation results and the soil and groundwater RRS for 1,2-Dichloropropane. Please revise accordingly.
- b.) Table 5 - It is unclear why Table 5 lists the nonresidential surface soil RRS for only a subset of all the detected regulated substances at the site. Please provide the full summary of the nonresidential RRS (surface/subsurface) for the substances consistent with Table N in Appendix F. In addition, please provide all of the ProUCL input and output files for trichloroethylene (TCE) for verification of the 95% UCL values.



c.) Vapor Intrusion- Please note that EPD's preference is to initially screen the non-cancer endpoint at an HQ of 0.1 to account for potential additive effects. Further refinement of the constituents of interest can then be made using an HQ of 1. In addition, please provide a table comparing the maximum detected concentrations for groundwater and sub-slab soil gas to the media-specific Vapor Intrusion Screening Levels (VISLs) for review.

Response

Risk Reduction Standards have been revised in accordance with a.) and b.) above. The requested tables comparing groundwater and sub-slab concentrations to the media-specific VISLs is provided in Appendix G of the May 2018 Progress Report.

If you have any questions, please call.

Sincerely,

A handwritten signature in blue ink, appearing to read "Justin Vickery", is written over a light blue circular stamp.

Justin Vickery
Principal

cc: Andrea Rimer, Troutman Sanders LLP

Prepared for:

RHEEM MANUFACTURING COMPANY

138 Roberson Mill Road N.W.

Milledgeville, GA 31061

**VOLUNTARY REMEDIATION PROGRAM
PROGRESS REPORT #9
Rheem Manufacturing Company
Milledgeville, Georgia**

Prepared by:



400 Northridge Road, Suite 400

Sandy Springs, Georgia 30350

Tel: 404-315-9113

May 2018

VOLUNTARY REMEDIATION PROGRAM PROGRESS REPORT #9

**RHEEM MANUFACTURING COMPANY
MILLEDGEVILLE, GEORGIA**

Prepared For:

RHEEM MANUFACTURING COMPANY
138 Roberson Mill Road N.W.
Milledgeville, GA 31061

Prepared By:



400 Northridge Road, Suite 400
Sandy Springs, GA 30350
Tel: 404-315-9113

A handwritten signature in blue ink, appearing to read "Justin Vickery", is written over a horizontal line.

Justin Vickery, P.G.
Principal

May 2018

**VOLUNTARY REMEDIATION PROGRAM PROGRESS REPORT #9
RHEEM MANUFACTURING COMPANY
Milledgeville, Georgia**

May 2018

TABLE OF CONTENTS

1	INTRODUCTION	1
	1.1 Summary	1
	1.2 Background.....	1
	1.3 Additional Parcel Acquisition.....	1
2	VRP PROJECT MANAGEMENT	2
	2.1 Professional Geologist Oversight.....	2
	2.2 Milestone Schedule	2
	2.3 Conceptual Site Model (CSM)	2
	2.4 Draft Environmental Covenant.....	2
3	UPDATED CONCEPTUAL SITE MODEL	3
	3.1 TCE Distribution with Respect to the CSM	3
	3.1.1 TCE Release.....	3
	3.2 Potential Receptors and Exposure Pathways	5
	3.2.1 Facility and Surrounding Area	5
	3.2.2 Well Survey	5
	3.2.3 Potential Human Receptors	5
	3.2.3.1 Overview and Migration Pathways.....	5
	3.2.3.2 Potential Facility Receptors	5
	3.2.3.3 Potential Downgradient Receptors	6
	3.2.3.4 Summary of Receptors Evaluated	6
	3.2.4 Potential Surface Water Receptors.....	6
	3.2.5 Points of Demonstration and Exposure.....	7
4	RISK REDUCTION STANDARDS (RRSs) / CLEAN-UP VALUES.....	8
	4.1 Overview.....	8
	4.2 Site Specific RRSs.....	8
	4.3 Delineation and Clean-up Standards	9

5	RISK ANALYSIS	10
<hr/>		
5.1	Overview of the Risk Analysis Process.....	10
5.2	Soil Risk Analysis	10
5.2.1	Dataset Used	10
5.2.2	Screening – Constituent of Concern	10
5.2.3	Evaluation against Site-Specific RRSs.....	10
5.2.4	Protection of Groundwater	11
5.3	Groundwater Risk Analysis.....	11
6	RECENTLY COMPLETED ACTIVITIES.....	13
<hr/>		
6.1	Overview.....	13
6.2	Assessment	13
6.3	Remediation.....	13
6.3.1	Groundwater Remedial Action	13
6.3.1.1	In-Situ Bioremediation	13
6.3.1.2	Status of Property Line ART System	15
6.3.2	Soil (Vadose Zone) Remedial Action	15
6.3.3	Vapor Intrusion Mitigation	16
6.3.3.1	SSD System Operation.....	16
7	PLANNED ACTIVITIES FOR NEXT REPORTING PERIOD.....	17
<hr/>		
7.1	Overview.....	17
7.2	Assessment	17
7.2.1	Groundwater Assessment.....	17
7.2.2	Groundwater Risk Analysis	17
7.2.3	Vapor Intrusion Sampling.....	17
7.3	Remedial Action.....	18
7.3.1	Decommissioning of Groundwater Pump-and-Treat System	18
7.3.2	Groundwater Bioremediation	18
7.3.3	Termination of Property Line ART System.....	18
7.3.4	Soil SVE System Operation	18
7.3.5	Sub-Slab Depressurization System.....	19
8	REFERENCES	20
<hr/>		

LIST OF FIGURES

Figure 1	Site Vicinity Topographic Map
Figure 2A	Facility Plan
Figure 2B	Site Plan
Figure 3	Parcel Acquisition Map
Figure 4	Maximum TCE Concentrations in Groundwater
Figure 5A	Hydrogeologic Profile A-A'
Figure 5B	Hydrogeologic Profile Location
Figure 6	Groundwater and Surface Water Point of Demonstration and Points of Exposure
Figure 7	Potentiometric Surface Map (May 2018)
Figure 8	<i>In-Situ</i> Bioremediation Treatment Zones and Well Network
Figure 9	ART System Layout
Figure 10A	TCE Concentrations in Surface Soil
Figure 10B	TCE Concentrations in Soil (2-5ft)
Figure 10C	TCE Concentrations in Soil (5-10ft)
Figure 10D	TCE Concentrations in Soil (10-15ft)
Figure 11	Sub-Slab Depressurization System Layout
Figure 12	Proposed Soil Gas Sample Locations
Figure 13	Proposed Indoor Air Sample Locations

LIST OF TABLES

Table 1A	Soil Risk Reduction Standards
Table 1B	Groundwater Risk Reduction Standards
Table 2	Screening of Soil Data against RRSs
Table 3	Soil Compliance
Table 4	Groundwater Elevations (May 2018)
Table 5	Well Construction Details
Table 6	<i>In-Situ</i> Bioremediation Injection Summary
Table 7	Soil Sampling Results
Table 8	Comparison of TCE in Soil Pre- and Post-SVE Operations

LIST OF APPENDICES

Appendix A	Survey and Legal Descriptions of Newly Acquired Parcels
Appendix B	Professional Geologist Summary of Hours
Appendix C	Milestone Schedule
Appendix D	Draft Environmental Covenant
Appendix E	Risk Reduction Standards
Appendix F	SESOIL Model
Appendix G	Vapor Intrusion Evaluation
Appendix H	Boring Logs
Appendix I	Laboratory Analytical Report



**VOLUNTARY REMEDIATION PROGRAM PROGRESS REPORT #9
RHEEM MANUFACTURING COMPANY
Milledgeville, Georgia**

GROUNDWATER SCIENTIST STATEMENT

I certify that I am a qualified ground water scientist who has received a baccalaureate or post-graduate degree in the natural sciences or engineering, and have sufficient training and experience in ground water hydrology and related fields, as demonstrated by state registration and completion of accredited university courses, that enable me to make sound professional judgments regarding groundwater monitoring and contaminant fate and transport. I further certify that this Progress Report was prepared by me or by a subordinate working under my direction.

Certified by:



Justin D. Vickery, P.G.

Principal

No. 1745

Date: 05/30/18

1 INTRODUCTION

1.1 Summary

This Voluntary Remediation Program (VRP) Progress Report is submitted on behalf of Rheem Manufacturing Company (Rheem) for the former Rheem manufacturing facility located at 138 Roberson Mill Road in Milledgeville, Georgia (“the Facility”). The VRP site, or “the Site”, includes the Facility and any other parcel affected by the release. This Progress Report updates the Conceptual Site Model (CSM) and the Risk Analysis, describes the activities conducted during the current reporting period (November 2017 through April 2018), and discusses planned activities for the next reporting period.

1.2 Background

The Facility was formerly used for the manufacturing of domestic air conditioning units and furnaces from 1978 until it ceased operations in 2009. The Facility is comprised of 41.12 acres and is fenced and improved with a vacant manufacturing and office building and an asphalt-paved parking lot. A regional topographic map of the surrounding area is shown on Figure 1. An aerial photograph of the Facility is included as Figure 2A, and an aerial photograph of the Facility and surrounding area is included as Figure 2B.

In September 1988, a release of reclaimed trichloroethene (TCE) was discovered by Rheem and reported to the Georgia Environmental Protection Division (EPD). The release occurred in the tank farm area from underground piping connecting two aboveground TCE storage tanks to a parts washer inside the Facility. A groundwater recovery system was installed in 1989-1990 to remediate TCE in groundwater. Since that time, Rheem has performed ongoing assessment and remedial activities with oversight by the EPD Land Protection Branch.

1.3 Additional Parcel Acquisition

In January 2018, Rheem acquired two Baldwin County tax parcels located west of the Facility which are part of the Site: Parcel 068-008A, an undeveloped lot totaling 44.9 acres and designated as 47 Highway 22, and Parcel 068-009, an 11.3-acre residential lot improved with a house and designated as 123 Meriwether Circle. Parcel 068-008A is divided into three tracts: Tract 1, 10.4 acres located on the east side of Roberson Mill Road; Tract 2, 31.7 acres located on the west side of Roberson Mill Road; and Tract 3, 2.8 acres encompassing a portion of the sewer easement running through Tract 2. Parcel 068-009 is designated as Tract 4. Tracts 1-4 are shown on the attached Figure 3. A survey and legal description for these additional parcels is included in Appendix A.

2 VRP PROJECT MANAGEMENT

2.1 Professional Geologist Oversight

This Progress Report includes a certification by Justin Vickery, P.G., the Professional Geologist specified in the VRP application. Appendix B contains a monthly summary of hours invoiced by the P.G.

2.2 Milestone Schedule

Rheem plans to submit a Compliance Status Report (CSR) for the Site in November 2018. An updated milestone schedule is included in Appendix C.

2.3 Conceptual Site Model (CSM)

An updated CSM is included in Section 3 of this report. Updates include the following:

- a discussion of limited horizontal migration of the TCE in bedrock,
- refinement of the potential receptors and exposure pathways, and
- new Point of Demonstration (POD) and new groundwater and surface water Points of Exposure (POEs).

2.4 Draft Environmental Covenant

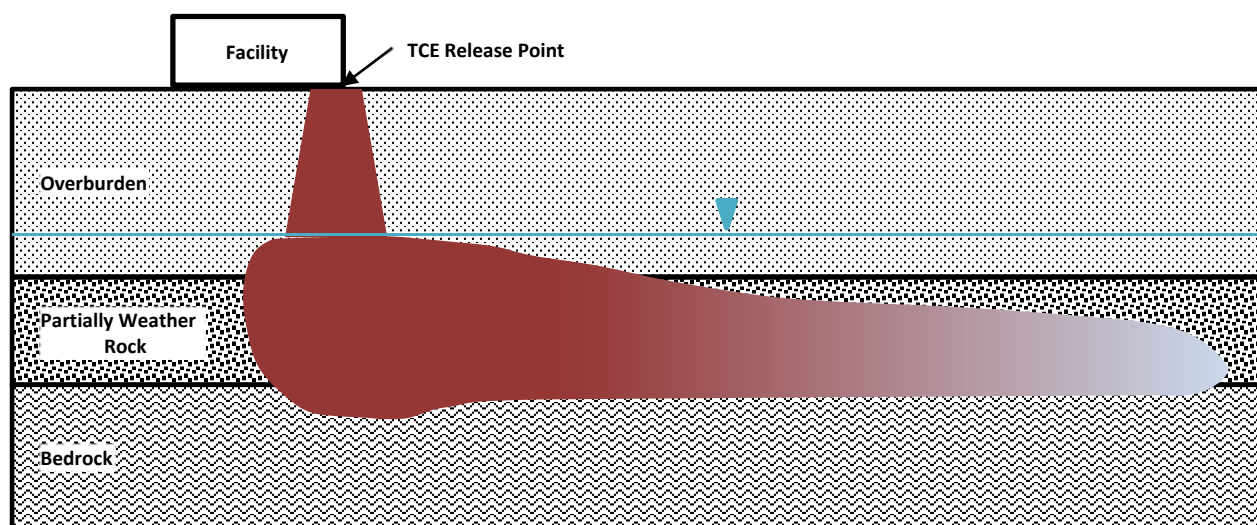
Rheem will establish vapor management protocols and groundwater and residential use restrictions for the Facility using an Environmental Covenant. A draft Environmental Covenant has been included in Appendix D for EPD's review.

3 UPDATED CONCEPTUAL SITE MODEL

3.1 TCE Distribution with Respect to the CSM

3.1.1 TCE Release

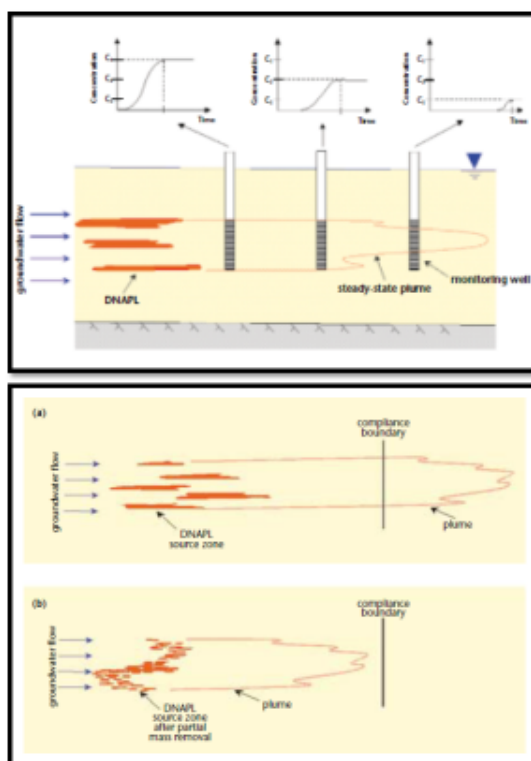
The CSM, as provided in the VRP application and schematically illustrated below, exhibits the characteristic behavior of a dense non-aqueous phase liquid (DNAPL) release, with primarily vertical migration downward from the release point until the DNAPL encounters a low permeability zone (*e.g.*, bedrock), at which point DNAPL may saturate, or pool, in the pore space if a sufficient volume was released. The downward vertical migration of DNAPL leaves in its path residual product globules no longer capable of migrating as a product phase, but acts as a continuing source of DNAPL constituents to groundwater. In the case of a significant release, the residual phase will occur at the soil saturation concentration (“C_{sat}”). Potentially the largest volume of DNAPL, as provided in the CSM, occurs at the interface of PWR and bedrock, resulting in an elevated groundwater condition at depth that exceeds the groundwater concentrations in the surficial aquifer, a condition observed at the Rheem Site. These conditions are illustrated below and further described in the bullets following.



- The pattern of TCE distribution in the vadose zone soil and underlying aquifer (groundwater) is consistent with the geologic setting described above and the reported distribution of TCE. TCE is present across the vertical profile of vadose zone soil beneath the area of the product release, indicating DNAPL transport through the soil into the underlying aquifer matrix. As illustrated in Figure 4, which shows the maximum TCE concentrations detected in the Facility monitoring wells over time, lateral spread of the DNAPL (elevated TCE concentrations) is limited to a relatively small area of the Facility.

- TCE is present in groundwater in all three hydrogeologic settings (saprolite, PWR, and bedrock) beneath the area of the TCE release, at levels characteristic of a DNAPL source being present.
- Free-phase DNAPL has never been observed in the Site monitoring wells, even in the release area. This indicates the DNAPL is in the residual saturation state, i.e., present as globules entrained in the aquifer matrix. There is no mobile DNAPL present at the Site.
- The dissolved-phase TCE plume emanating from the source area is mature (release occurred 30 years ago) and likely has been at steady state for a number of years (Kueper et al., 2003). The measured concentration of TCE at a given location/depth is not expected to increase in the future. Moreover, with the bioremediation injection activities being initiated in the release area, the TCE plume extent and magnitude is expected to decrease over time. These points are expressed below.

Plume Behavior in Presence of Residual DNAPL



- Images to left taken from *Illustrated Handbook of DNAPL Transport at Fate in the Subsurface*
- Key Point #1 - all plumes reach steady state regardless of subsurface media (saprolite, rock)
- Key Point #2 - this condition can be realized by the dispersion process without other attenuation processes
- Key Point #3 – proximate wells achieve steady state sooner vs. distant wells (see upper image to left)
- Key Point #4 – plume will persist until source mass is exhausted
- Key Point #5 – partial reduction in DNAPL source zone will result in a new steady-state plume of lesser dimension (see lower image to left)

- Depth-profile sampling of TCE in groundwater, conducted at numerous boring locations across the Site shows that the shallow groundwater (saprolite zone) away from the source area exhibits a lower concentration relative to deeper groundwater (PWR zone). Furthermore, bedrock fracturing at the Site is not interconnected on a Site-wide scale and is not conducive to horizontal migration. Rather, impact to the bedrock fractures, which exhibit low transmissivity, appears to be limited to localized vertical migration of the PWR groundwater plume. This is illustrated in Hydrogeologic Profile A-A' (Figure 5A, with the profile location shown on Figure 5B), showing concentrations in bedrock near the release area (MW-3A and MW-5) historically exceeding 100,000 $\mu\text{g/L}$ with nearby

downgradient bedrock concentrations of less than 100 µg/L. This is consistent with the CSM in that the PWR is the primary flux zone owing to its higher relative permeability.

3.2 Potential Receptors and Exposure Pathways

3.2.1 Facility and Surrounding Area

The Facility includes a single-story former manufacturing facility building (approximately 12 acres under roof) and a parking lot located to the northwest of the building. The former manufacturing facility is currently vacant, but may be occupied by a future owner. There is a security fence surrounding the Facility and periodic inspection/maintenance and landscaping is performed by contractors who maintain the Facility and the grounds on an as needed basis. The Facility is currently being marketed for sale, and its future use is expected to remain commercial/industrial.

The adjoining properties are used for commercial purposes or are currently vacant. The majority of the area near the Facility is zoned for commercial land use with pockets of single family homes to the north and west of Roberson Mill Road, to the east of North Columbia Street, and along Garrett Way to the southeast of the Facility. The nearest residential areas include a single-family housing neighborhood located approximately 300 feet north of the Facility and a townhome neighborhood approximately 500 feet northwest of the Facility.

3.2.2 Well Survey

The results of a water well survey conducted between January and March 2018, were presented to EPD in a letter dated March 30, 2018. No drinking water sources were identified within a ½-mile radius of the Site or within a 3-mile zone downgradient of the Site. EPD is currently reviewing the well survey to evaluate the applicability of the groundwater pathway under the VRP. Pending EPD's evaluation of the Site well survey, the downgradient groundwater pathway was excluded from consideration. In any event, a restriction on the future use of groundwater at the Facility is included in the proposed Environmental Covenant.

3.2.3 Potential Human Receptors

3.2.3.1 Overview and Migration Pathways

The historical release of TCE has impacted soils at the Facility and groundwater both at the Facility and downgradient from the Facility. The potential exposure pathways associated with the Site are discussed below.

3.2.3.2 Potential Facility Receptors

The primary potential Facility receptors include future site workers and construction/utility workers. A non-residential use restriction will be included in the proposed Environmental Covenant, so potential residential receptors are not included in this evaluation. The Facility does not currently have any full-time workers, but inspection/maintenance contractors and

groundskeepers visit the Facility periodically. The risk evaluation will include evaluation of the site worker and construction worker receptors, which would be protective of other categories of non-residential receptors.

Site workers may potentially be exposed to surface soil, which is herein defined as 0 to 2 feet below ground surface (ft-bgs). For the purposes of the risk evaluation it is assumed that construction workers could potentially be exposed to soil from 0 to 10 ft-bgs. Although much of the Facility is covered with pavement, concrete or buildings, the soil data collected under these surfaces were not excluded from the risk evaluation in the event that the surfaces are not maintained in the future.

3.2.3.3 Potential Downgradient Receptors

There are some businesses, including a daycare center, to the southwest of the Facility in the general direction of groundwater flow. Given the concentrations of TCE detected in downgradient groundwater, the depth at which those concentrations have been detected, and the 20 to >40-ft vertical layer of clean groundwater on top of the impacted groundwater, it is unlikely that downgradient site workers could be exposed to vapors migrating from impacted groundwater to the indoor air. However, for purposes of this assessment, downgradient site workers have been included as a potential receptor via this pathway.

There are some single family and multi-family residences within a half-mile of the western boundary of the Facility. The groundwater plume has not migrated onto these residential properties nor any other nearby residential properties. However, for purposes of this assessment, downgradient residents have been included as a potential vapor migration receptor. A residential receptor evaluation is considered representative of a daycare center receptor.

3.2.3.4 Summary of Receptors Evaluated

Below is a summary of the receptors included in the risk evaluation (Section 5).

- Facility Receptors
 - Site Worker: Surface soil and vapor intrusion
 - Construction Worker: Soil 0-10 ft-bgs
- Downgradient Receptors
 - Resident: Vapor intrusion
 - Site Worker: Vapor intrusion

3.2.4 Potential Surface Water Receptors

An unnamed pond, located downgradient of MW-47 and approximately 500 feet downgradient from the toe of the TCE plume, was evaluated as a potential surface water receptor. A surface water sample was collected on September 25, 2012 and analyzed for volatile organic compounds¹ (VOCs). No regulated constituents were detected above method detection limits. Two intermittent

¹ Surface water analyzed for TCL Volatile Organics (SW8260B).

streams converge at the northern tip of the pond, an area of observed perennial water. The groundwater TCE plume in this vicinity is overlain by greater than 40 feet of clean groundwater and is therefore not expected to discharge to the surface water. However, for purposes of this CSM, the surface water will be considered potential pathway.

3.2.5 Points of Demonstration and Exposure

Under the VRP, the POD is a monitoring well located between the source of the Site groundwater impacts and the actual or estimated downgradient POE, which is defined as the nearest of the following: the closest existing downgradient drinking water well, the likely nearest future downgradient drinking water well, or at a hypothetical point of exposure 1,000 feet downgradient of the plume edge. As discussed in Section 3.2.2, no drinking water wells exist within three miles downgradient of the Site. Therefore, at the request of EPD in its January 26, 2018 letter, the POD has been established as monitoring well MW-34 and the groundwater POE has been established as MW-36. The northern tip of the pond is the surface water POE. These are shown on Figure 6.

4 RISK REDUCTION STANDARDS (RRSs) / CLEAN-UP VALUES

4.1 Overview

RRSs were previously developed for the regulated constituents detected in soil and groundwater². In accordance with Comments 13.a. and 13.b. in EPD's January 26, 2018 letter, revisions to the RRS development have been incorporated. The revised RRS calculations are presented in Appendix E, and the RRSs are summarized in the attached Table 1A and Table 1B for soil and groundwater respectively.

Types 1 and 2 RRSs are designed to be protective of residential use, and Types 3 and 4 are designed to be protective of non-residential use. Additionally, Types 1 and 3 are default values and Types 2 and 4 may be based on site-specific conditions. The soil RRSs presented in Appendix E have been updated to reflect more site-specific conditions.

4.2 Site Specific RRSs

According to the VRP Act ("Act"), clean-up standards for soil may be based on:

- a) direct exposure factors for surficial soils within two feet of the land surface,
- b) construction worker exposure factors for subsurface soils to a specified subsurface construction depth, and
- c) leaching concentrations protective of groundwater.

Accordingly, site-specific soil clean-up standards (Type 4 RRSs) have been developed for the two direct exposure scenarios listed above. The RRSs for leaching were not calculated; however, as discussed in Section 5.2.4, current soil concentrations were evaluated to determine the potential impact to groundwater.

The RRSs for direct exposure for site workers to surficial soils and construction worker exposure for soil 0-10 ft bgs were calculated by adjusting the standard RRS calculations. The adjustments included changing the exposure parameters to match the two worker scenarios and by excluding the protection of groundwater aspects of the full RRS calculation matrix. Direct exposure for surficial soils was determined for non-residential receptors (Type 4) using default exposure parameters. Residential direct exposure RRSs (Type 2) for surficial soils was also determined for completeness but is not discussed since, in accordance with the proposed Environmental Covenant, there will be a residential use restriction for the Facility. A Type 4 direct exposure RRS was also developed for the construction worker scenario.

² Type 1-4 RRS were developed in the May 2015 VRP Progress Report #5.

4.3 Delineation and Clean-up Standards

Per the Act, delineation criteria are the Type 1 RRSs, which are shown on Tables 1A and 1B for soil and groundwater, respectively. The clean-up standards for the soil chemicals-of-concern (COCs) are the direct-contact RRSs shown at the bottom of Table 1A. A soil leaching clean-up standard has not been calculated since soil concentrations are not anticipated to impact groundwater above the existing groundwater concentrations (Section 5.2.4). The clean-up standards for groundwater and the surface water at the respective POEs are the Residential RRSs (Table 1B) and the In-Stream Water Quality Standards³ (ISWQs, 30 µg/L for TCE), respectively.

³ State of Georgia Rule 391-3-6-.03 Water Use Classification and Water Quality Standards

5 RISK ANALYSIS

5.1 Overview of the Risk Analysis Process

The risk analysis presented in this section of the report builds upon the identification of potential receptors and exposure pathways presented in Section 3.2, by examining the applicable risk-based criteria for two primary modes of exposure: soil and vapor intrusion. In the context of VRP, soil data are evaluated with respect to RRSs; whereas for vapor intrusion, the data are evaluated with respect to threshold levels.

5.2 Soil Risk Analysis

5.2.1 Dataset Used

The soil dataset used for the risk evaluation did not exclude samples collected under concrete, asphalt or buildings. The soil dataset did exclude old data that has been replaced with newer data. Within the soil vapor extraction (SVE) zone of influence, updated samples collected after completion of SVE system operations were used (refer to Section 6.3.2) to represent current soil conditions.

5.2.2 Screening – Constituent of Concern

The soil data for detected constituents are compared to RRSs in Table 2. As the Facility is zoned commercial/industrial and a non-residential use restriction will be included in the planned environmental covenant, soil COCs are defined as those constituents that have a maximum concentration greater than the Non-Residential RRSs. As shown in Table 2 the only COC is TCE. It is of note that in surface soil, all constituents (except TCE) are also below the residential RRSs; thus, the only residential-based COC would also be TCE.

5.2.3 Evaluation against Site-Specific RRSs

As mentioned previously, site-specific RRSs were developed for TCE based on direct-contact of site workers and construction workers with the soil. Table 3 shows a comparison of the TCE data to the different site-specific RRSs.

Per the Act, compliance may be determined “on the basis of representative concentrations of constituents of concern in soils across each applicable soil exposure domain, and the representative concentrations for groundwater at a point of exposure.” It is conventional in risk assessments to use the 95% Upper Confidence Limit on the mean (“95% UCL”) as the representative concentration. The entire Facility is considered as one exposure domain. The 95% UCL was calculated for each receptor using the EPA’s ProUCL software (version 5.1). ProUCL input and output is presented in Appendix E. As shown in Table 3, the 95% UCLs are below the site-specific

RRSs. The 95% UCL in surface soil is 0.96 mg/kg, well below the site worker RRS (21 mg/kg), and the 95% UCL in surface and subsurface soil combined is 5.9 mg/kg, which is below the construction worker RRS (38 mg/kg). Thus, the soil is in compliance with Type 4 site-specific RRSs (site worker and construction worker).

5.2.4 Protection of Groundwater

For purposes of the VRP, soil compliance requires, in part, that constituents leaching from soils do not impact a groundwater POE above the cleanup standard. The Seasonal Soil Compartment Model (SESOIL) was used to evaluate the magnitude (concentrations) of TCE leaching from the vadose zone (see Appendix F). SESOIL simulates fate and transport of a single chemical in the vertical dimension based on mass balance and equilibrium partitioning of the chemical and uses site-specific soil, chemical, and meteorological data. In the simulation, the current soil TCE condition was expressed as a 4-layer profile covering the entire soil column from the ground surface to the water table (0-2, 2-5, 5-10, and 10-15 ft-bgs) with a representative concentration for each interval calculated as the 95% UCL. Soil characteristics of fine to medium clay, physical-chemical properties of TCE, and climate data for Milledgeville, Georgia were derived from various databases included with the SESOIL software. The SESOIL output indicates a maximum leaching concentration of 2.7 mg/L and adsorption onto soil as the primary process governing the fate and transport of TCE. Therefore, since the current soil concentrations are not anticipated to impact groundwater above the existing groundwater concentrations or the upper range of the groundwater concentrations outside of the groundwater bioremediation zone (*i.e.*, expected post-remediation groundwater concentrations, Section 6.3.1.1.1), soil concentrations comply with the groundwater protection criteria.

5.3 Groundwater Risk Analysis

The Site is not listed on the Hazardous Site Inventory, and as discussed in Section 3.2.2, no drinking water wells were identified within three miles downgradient of the Site. Pending EPD's review of the water well survey, the groundwater pathway was not evaluated for purposes of this discussion.

5.4 Vapor Intrusion Evaluation

Vapor intrusion was evaluated both at the Facility and downgradient from the Facility using groundwater and soil gas data. The assessment is included in Appendix G. The assessment relied on the EPA's vapor intrusion screening level (VISL) online calculator.

Based on this evaluation, no unacceptable risk of vapor intrusion exists for structures located downgradient from the Facility. It is of note that the constituents with elevated soil gas concentrations are mostly chlorinated ethenes at the Facility and petroleum hydrocarbons downgradient from the Facility. The petroleum hydrocarbons detected in soil gas downgradient from the Facility appear to originate from documented petroleum hydrocarbon releases at nearby gas station leaking underground storage tank (LUST) sites, each with several feet of gasoline free

product historically measured. Documentation regarding these LUST sites will be included in the CSR.

Facility soil gas concentrations exceed the Commercial VISL Target Soil Gas Concentrations. Previous vapor intrusion assessments of the Facility have been reported in prior VRP progress reports, and resulted in the installation of a sub-slab depressurization piping network, designed to capture VOCs in soil gas prior to permeation of the slab and entry into the building areas.

6 RECENTLY COMPLETED ACTIVITIES

6.1 Overview

Section 6 discusses activities conducted between November 1, 2017 and April 30, 2018, including:

- assessment and development of potentiometric surface map,
- implementation of full-scale bioremediation injections,
- status of the Accelerated Remediation Technology (ART) system,
- completion of vadose zone remediation and soil confirmation sampling, and
- continued vapor intrusion mitigation.

6.2 Assessment

As requested in Comment 8 of EPD's January 26, 2018 letter, on May 2, 2018, groundwater depths were gauged in Site monitoring wells. Table 4 summarizes the groundwater elevations, and Figure 7 is a potentiometric surface map generated from this data. The groundwater flow direction is to the south-southeast, similar to previous potentiometric surface maps.

6.3 Remediation

6.3.1 Groundwater Remedial Action

6.3.1.1 In-Situ Bioremediation

6.3.1.1.1 Background

Following an *In-Situ* Microcosm Study conducted in 2015 and a bioremediation pilot study initiated in October 2016, bioremediation was selected as the remediation strategy for addressing VOC concentrations in groundwater in the vicinity of the historical release. As shown on Figure 8, the selected bioremediation treatment areas include (i) the "Release Area Zone" (*i.e.*, the core of the TCE-impacted groundwater beneath the TCE release area) and (ii) the "Plume Zone" (*i.e.*, downgradient of the Release Area Zone where TCE generally exceeds 10 milligrams per liter (mg/L)). The treatment involves a combination of biostimulation and bioaugmentation to create suitable conditions for degradation (reductive dechlorination) of TCE and TCE daughter products to benign nontoxic end products. Biostimulation is provided by the application of emulsified vegetable oil (EVO), sold under the trade name SDS-SD® (Terra Systems, Inc.), and bioaugmentation is provided by the application of *Dehalococcoides* culture.

6.3.1.1.2 Injection Well Installation

In October 2016, as part of a bioremediation pilot test, 22 injection wells were installed in five nested well group locations (IW-1 through IW-3 in the Plume Zone and IW-4 and IW-5 in the Release Area Zone (Figure 8)). At each location, between three and five 1-inch wells were constructed with well screens set at varying depths in the saprolite, PWR, and bedrock, ranging from 20 to 118 feet below the ground surface.

In October and November 2017, injection wells IW-6 through IW-63 were installed. Based on the pilot study, which suggested low porosity and low injection rate in the bedrock, in general, the wells were set on top of bedrock and screened in PWR and saprolite. In the Release Area Zone, the top of the screened intervals was set near the water table, while in the Plume Zone, the top of the screen intervals was set at around 50 ft-bgs. Within the transition between the Release Area and the Plume Zones, the tops-of-screen were gradationally set at depths between the water table and 50 ft-bgs. These injection wells were each constructed as single 2-inch PVC wells. Most of the injection wells, with the exception of wells having 40 feet or less of screened interval, were constructed with two screened intervals separated by a 10-ft section of solid well casing. The purpose of the separated screened sections is to create separate vertical injection zones using well packers to better control the spread of the injection media and to minimize preferential pathways.

Injection well (IW-1 through IW-63) construction details are summarized in Table 5, and injection well locations are depicted on Figure 8. Boring logs included in Appendix H.

6.3.1.1.3 Bioremediation Injections

In January 2018, full-scale bioremediation injection was initiated. The injection volume for each screen section was pre-determined using a model developed by Terra Systems, Inc. The EVO is first diluted to the optimum concentration. Municipal water, is run through two 2,000-lb carbon vessels to remove the chlorine. The water is then mixed with sodium ascorbate and sodium bicarbonate and held in a series of 1,500 to 2,500-gallon mix tanks for one to four hours to deoxygenate before mixing with the EVO. The 10% (by volume) EVO solution is then transported to pumping manifolds located at the injection wells either by tote-transport or by direct piping. Once approximately 100 gallons of the EVO solution has been injected into a well, a pre-determined volume of bioaugmentation culture is injected using pressurized nitrogen. The bioaugmentation culture injection is followed by the injection of the remaining pre-determined volume of EVO. Once the full volume of EVO has been injected, deoxygenated flush water, in an amount equal to approximately half of the EVO injection volume, is injected into the wells to facilitate distribution of the injected media into the aquifer.

As of April 30, 2018, a total of approximately 245,000 gallons of 10% EVO and 220 liters of bioaugmentation culture have been injected into 42 injection wells. Table 6 summarizes injection volume, injection rate, injection duration, etc., for each injection well.

6.3.1.2 Status of Property Line ART System

As described in prior submittals, the ART system consists of six remediation wells positioned along a transect (*i.e.* treatment barrier) perpendicular to the TCE plume, intersecting the area of highest TCE concentrations at the Facility's western boundary. The ART well network (including performance wells) is shown on Figure 9. The goal of the ART system is to reduce the mass flux of TCE exiting the Facility, allowing natural attenuation processes along the continued flow path of groundwater to address the lesser VOC flux condition.

The ART system remained operational during this reporting period, but as discussed in Section 7.3.3 below, operation of the system will be terminated based on further evaluation of the groundwater plume and discussions with EPD. As such, ART performance monitoring was not conducted during this reporting period as previously planned. Instead, ART performance wells will be sampled during a comprehensive sampling event in Summer 2018 and the system will ultimately be decommissioned.

6.3.2 Soil (Vadose Zone) Remedial Action

The soil vapor extraction (SVE) system, consisting of a 40 horsepower (HP) vacuum blower connected to 40 hydraulic fracture wells, was previously installed to extract VOCs from the vadose zone soil in the TCE release area. SVE system operations were initiated in April 2015 and continued through the current reporting period, except during system maintenance, exhaust treatment technology replacement, and certain activities associated with the groundwater bioremediation. As of November 2016, an estimated 14,124 pounds of VOCs had been recovered with the SVE system. Additional VOC mass recovered since that time will be determined after the upcoming carbon disposal.

On April 18-19, 2018, 92 soil samples were collected from 19 borings in the vicinity of the SVE system in order 1) to determine the VOC concentrations remaining in the soil within the SVE zone of influence and 2) to determine whether a Type 5 RRS restricted use zone might be required for the purpose of Facility worker protection. Continuous soil cores were collected and screened with a photoionization detector (PID). Sampling depths were determined as follows:

- Samples were collected from each boring at 0.5 feet below the ground surface (ft-bgs) and 1.5 ft-bgs to assess the surface soil condition.
- One sample was collected from each of the following depth intervals: 2-5 ft-bgs, 5-10 ft-bgs, and 10-15 ft-bgs. Specific depths within each interval were determined by the highest PID measurement within each interval.

Historical vadose zone soil sampling, conducted during the operation of the pump and treat system, extended to 20 ft-bgs or more. Since the shutdown of the pump and treat system in January 2017, the water table has risen to approximately 16 ft-bgs, and therefore, the soil sampling intervals were not extended beyond 15 ft-bgs. Recent and historical soil sampling results are included in Table 7, and the recent laboratory analytical report is included in Appendix I. Table 8 provides a statistical comparison of TCE results for the recent samples collected within the SVE zone of influence (post-SVE) and the historical TCE results within this zone (pre-SVE). Figures 10A through 10D show side-by-side comparisons of TCE concentrations pre- and post-SVE system operation for vadose

zone soil samples for the 0-2 ft-bgs, 2-5 ft-bgs, 5-10 ft-bgs, and 10-15 ft-bgs depth intervals, respectively. Historical sampling results for locations outside of the expected SVE zone of influence are shown in each of the figures.

Fifty-five samples were collected from the 11 borings located within the SVE zone of influence. From these samples, the maximum TCE concentration was 3.1 mg/kg at a depth of 8 ft-bgs, and the average TCE concentration was 0.097 mg/kg. These detections are all below the non-residential direct contact clean-up standards (Table 1A) calculated for this Site. TCE concentrations have decreased several orders of magnitude within the zone of SVE influence with previous maximum and average concentrations of 78,000 mg/kg and 2,333 mg/kg, respectively. Samples collected outside of the SVE zone of influence in April 2018 were all below the direct contact clean-up standards as well.

6.3.3 Vapor Intrusion Mitigation

6.3.3.1 SSD System Operation

Previous progress reports described the sub-slab depressurization (SSD) system piping installed at the Facility. Figure 11 shows the SSD system lines (Lines 1-10) and the locations of the fans. Full operation of the system was initiated on November 1, 2016. Each of the lines has remained operational throughout the reporting period, with the exception of temporary shutdown of Lines 6-8 during the bioremediation injection activities in these areas.

As discussed in the June 2017 VRP Progress Report #7, results from samples collected after initiation of SSD system operations indicate that indoor air concentrations are below the EPA screening levels and that sub-slab soil gas sample concentrations have decreased significantly below pre-system operation levels.

7 PLANNED ACTIVITIES FOR NEXT REPORTING PERIOD

7.1 Overview

The planned activities for the next reporting period are being conducted in conjunction with and to facilitate the submittal of a final CSR and proposed Site closure.

7.2 Assessment

7.2.1 Groundwater Assessment

The following monitoring wells will be sampled in Summer 2018 to provide a comprehensive and updated evaluation of current groundwater conditions for incorporation into the VRP CSR. The list includes all of the Site monitoring wells with the exception of wells located within the anticipated zone of influence of the bioremediation injections where concentrations are likely to significantly decrease over time.

MW-2	MW-10	MW-14	MW-20	MW-25	MW-30	MW-35	MW-40A-E	MW-45
MW-3	MW-11	MW-15	MW-21	MW-26	MW-31	MW-36	MW-41A-E	MW-46
MW-6	MW-12	MW-16	MW-22	MW-27	MW-32	MW-37S/D	MW-42A-E	MW-47
MW-7	MW-12A	MW-18	MW-23	MW-28	MW-33	MW-38S/D	MW-43	MW-52A-C
MW-8	MW-13	MW-19	MW-24	MW-29	MW-34	MW-39	MW-44	MW-54

7.2.2 Groundwater Risk Analysis

The groundwater pathway will be further evaluated, as required, in relation to the groundwater and surface water POEs.

7.2.3 Vapor Intrusion Sampling

During the Summer or Fall of 2018, 23 soil gas samples and 12 indoor air samples will be collected to further evaluate the effectiveness of the SSD system. Soil gas and indoor air sample locations are shown on Figures 12 and 13, respectively.

7.3 Remedial Action

7.3.1 Decommissioning of Groundwater Pump-and-Treat System

Pump-and-treat operations have been ongoing since the early 1990s. Concentrations have decreased in several monitoring wells since that time; however, the system has reached the limits of its effectiveness with respect to the remaining TCE impacts in the release area groundwater. With the implementation of bioremediation as a means to decrease the mass of TCE in the release area groundwater, there is no benefit associated with the continued operation of this system. During the next reporting period, the four recovery wells (RW-1 through RW-4) will be sealed and decommissioned. As addressed in Response #2 in the comment response letter, prior to decommissioning of RW-3, bioremediation media will be injected into the well to reduce the elevated TCE in its immediate vicinity.

7.3.2 Groundwater Bioremediation

Bioremediation injections will continue into the next reporting period and are expected to conclude in June 2018. Sampling for VOCs and total organic carbon (TOC) will be conducted monthly following conclusion of injections, and results will be reported in the CSR. Specific recommendations regarding the performance of ongoing performance monitoring will be provided within the CSR.

7.3.3 Termination of Property Line ART System

The ART system was installed as an interim measure to decrease the flux of VOC off of the Facility property and has been effective in this regard (EPS, November 2017). Operation of the ART system will be terminated during Summer 2018 based on the following:

- Literature (Kueper et al., 2003) suggests that all groundwater plumes reach steady-state after some period of time (the Rheem groundwater plume is at least 30 years old).
- Concentration over distance trend charts, using existing groundwater VOC concentrations over various time ranges, suggest that the groundwater VOC plume has reached a steady-state condition.
- Release area bioremediation is expected to significantly decrease the mass of VOCs contributing to the down-gradient plume.

The groundwater plume located downgradient of the Facility is expected to remain steady for the next several years and eventually begin diminishing following the release area groundwater remediation.

7.3.4 Soil SVE System Operation

SVE system operations have been terminated. Carbon used for vapor extraction treatment will be disposed of off-Site, and the SVE wells will be decommissioned. Facility soils are below the direct contact clean-up criteria, and current soil concentrations are not expected to impact groundwater

above the existing to post-bioremediation levels. Therefore, a Type 5 RRS restricted use zone is not required for soils in the source area.

7.3.5 Sub-Slab Depressurization System

The SSD system will continue to operate during the next reporting period, and vapor mitigation requirements will be incorporated into the Environmental Covenant for the Facility.

8 REFERENCES

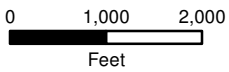
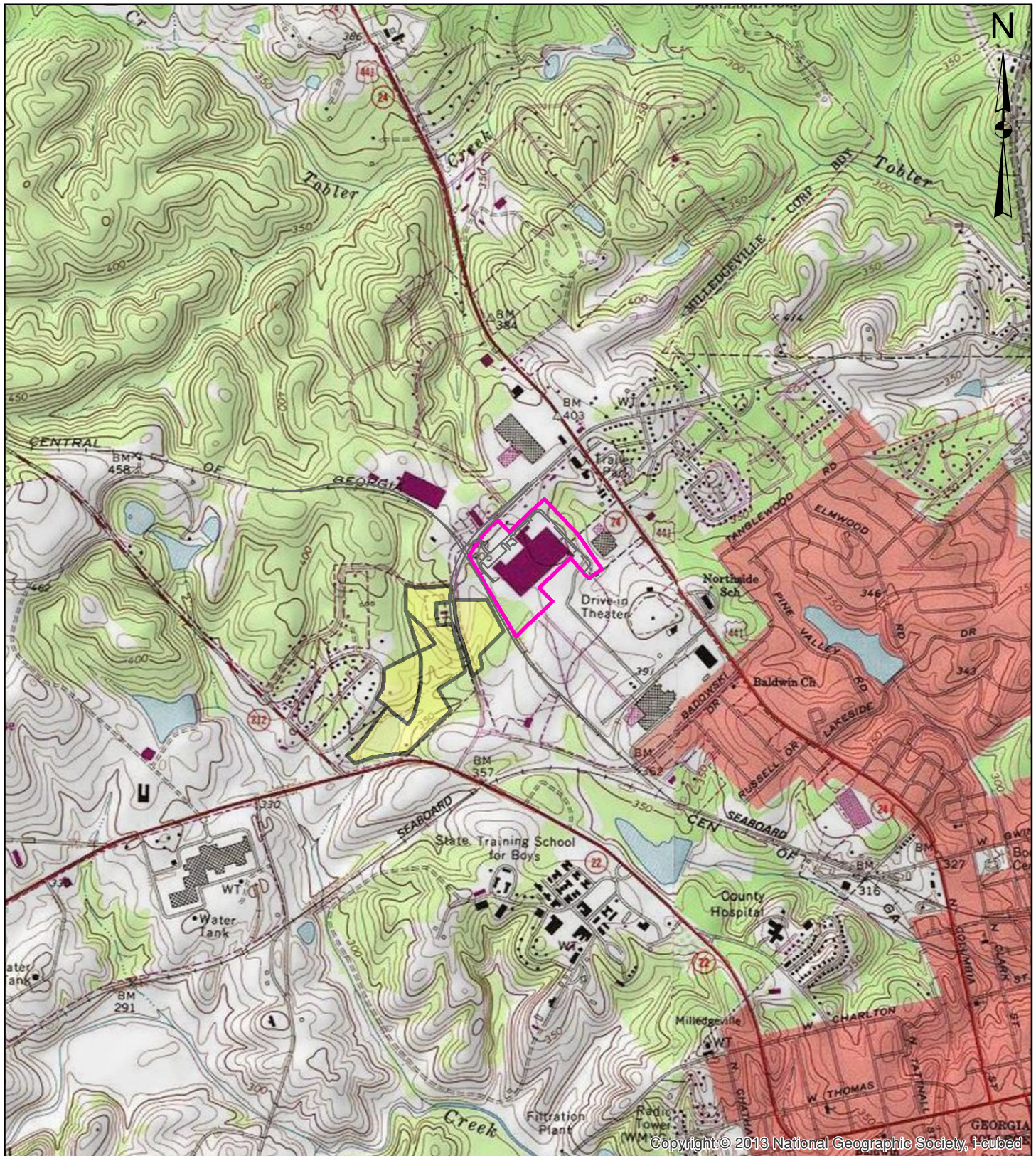
Environmental Planning Specialists, Inc., June 2016, Voluntary Remediation Program Progress Report #5.

Environmental Planning Specialists, Inc., June 2017, Voluntary Remediation Program Progress Report #7.

Environmental Planning Specialists, Inc., November 2017, Voluntary Remediation Program Progress Report #8.

Kueper, B.H., Wealthall, G.P., Smith, J.W.N., Lehane, S.A., & Lerner, D.N., June 2003, An Illustrated Handbook of DNAPL Transport and Fate in the Subsurface

FIGURES

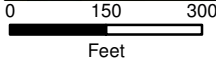
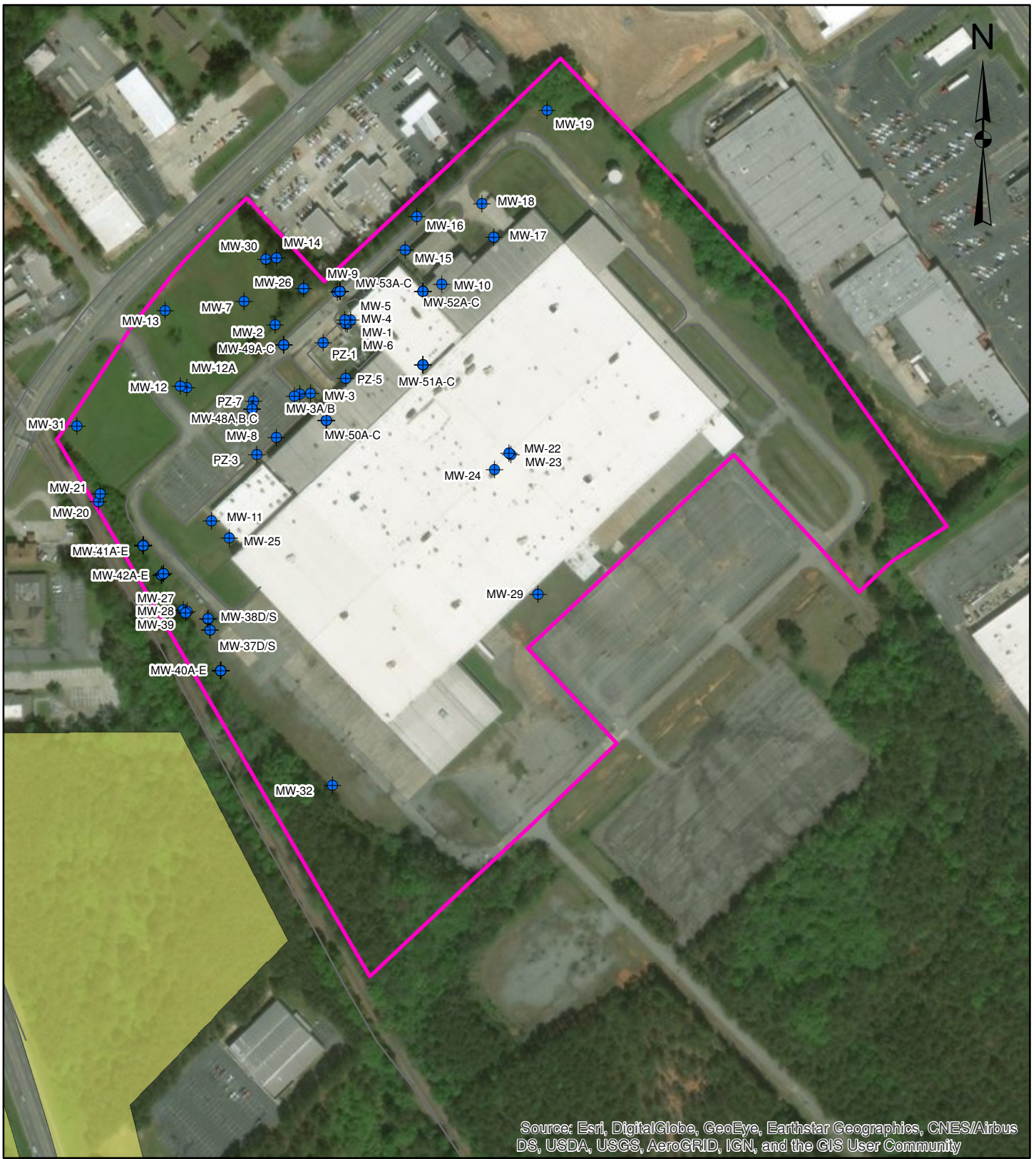


Legend

- Facility Property Line
- Recently Acquired Parcels

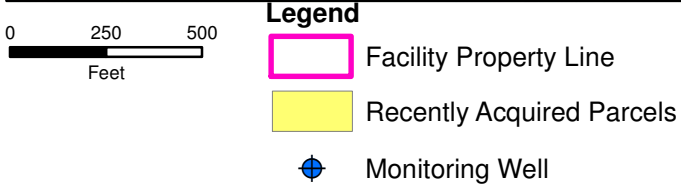
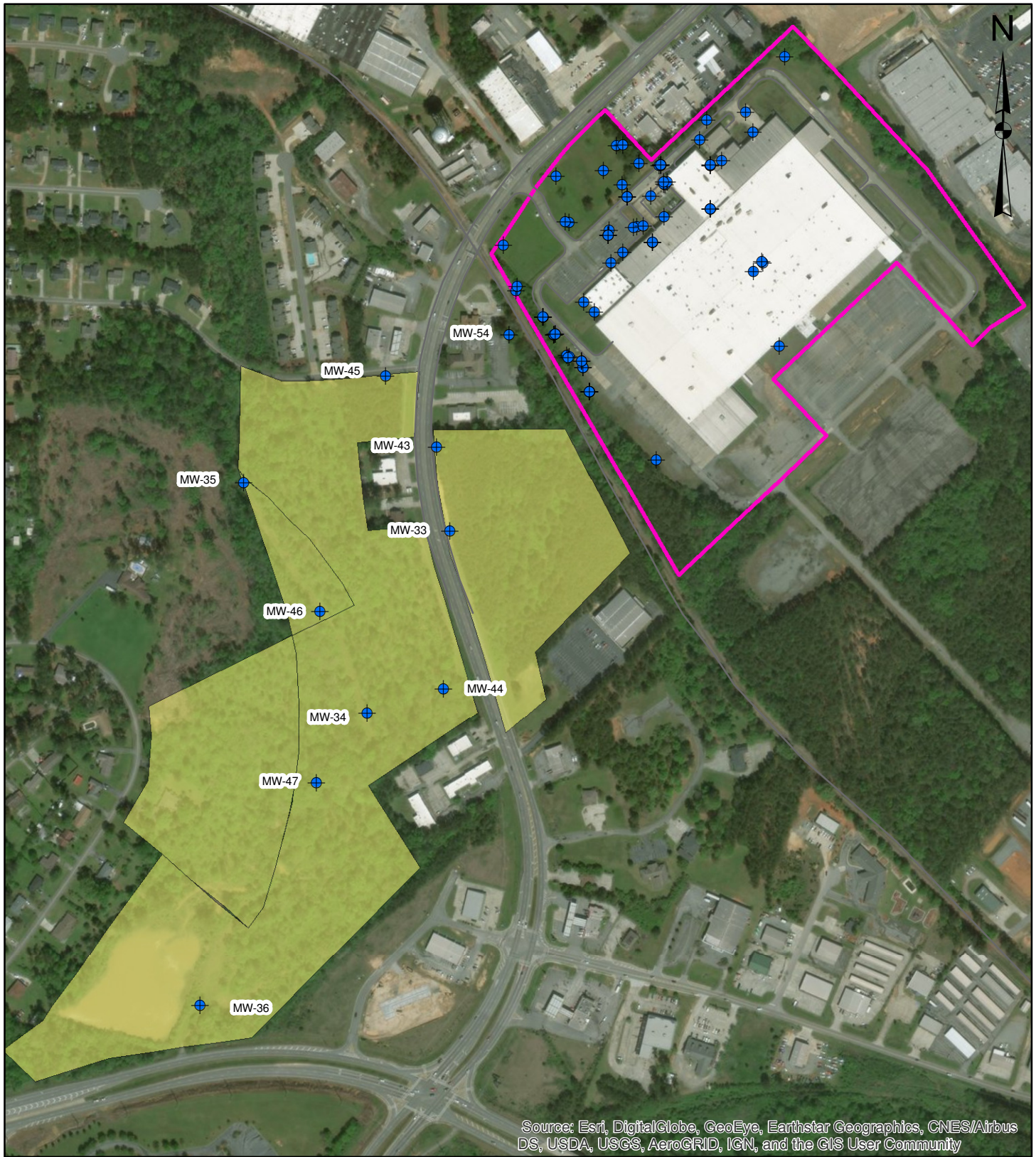
Site Vicinity Topographic Map

Rheem Manufacturing Company
Milledgeville, Georgia



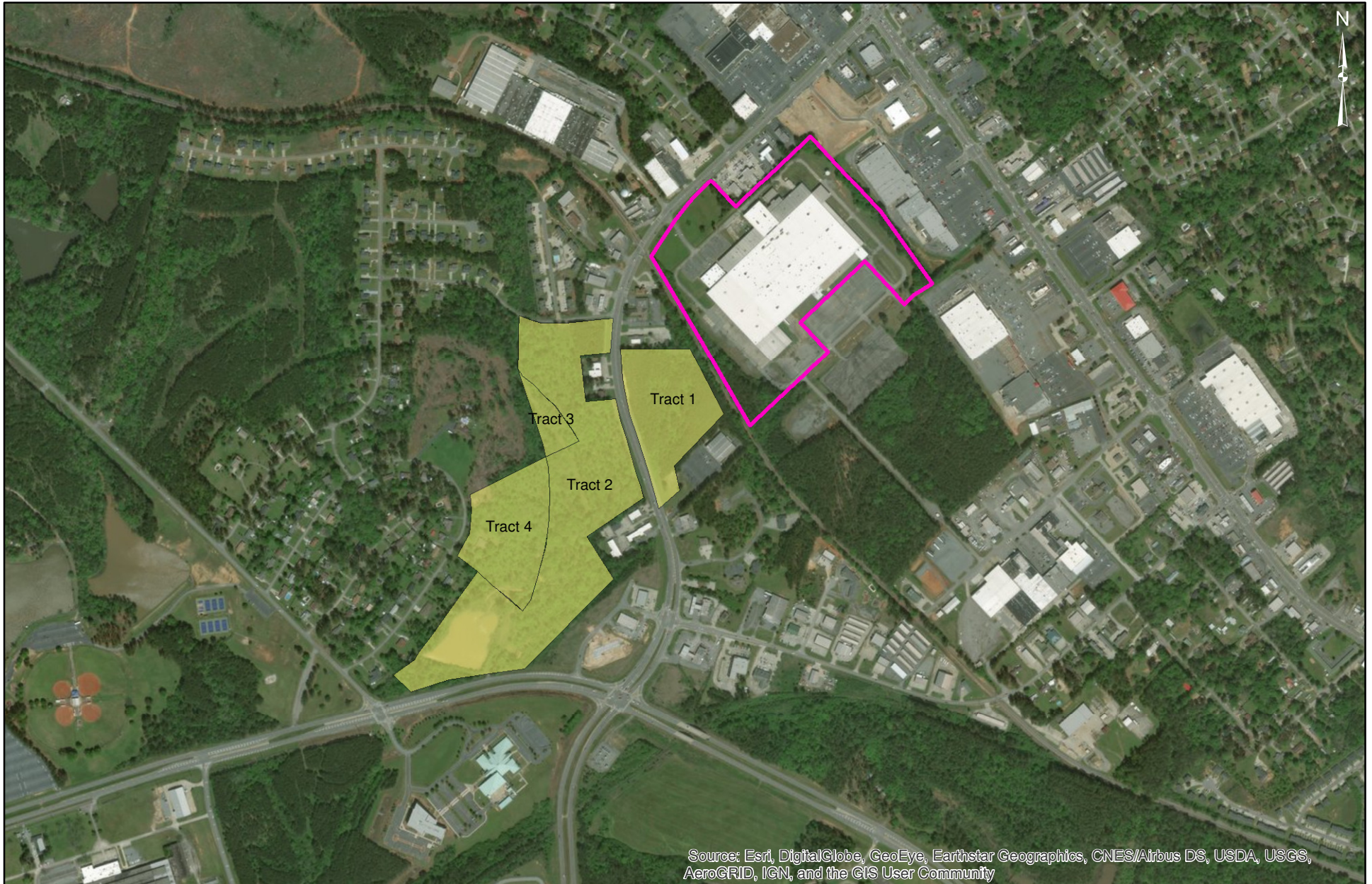
- Legend**
- Facility Property Line
 - ⊕ Monitoring Well
 - Recently Acquired Parcels

Facility Plan
 Rheem Manufacturing Company
 Milledgeville, Georgia





Site Plan

Rheem Manufacturing Company
Milledgeville, Georgia

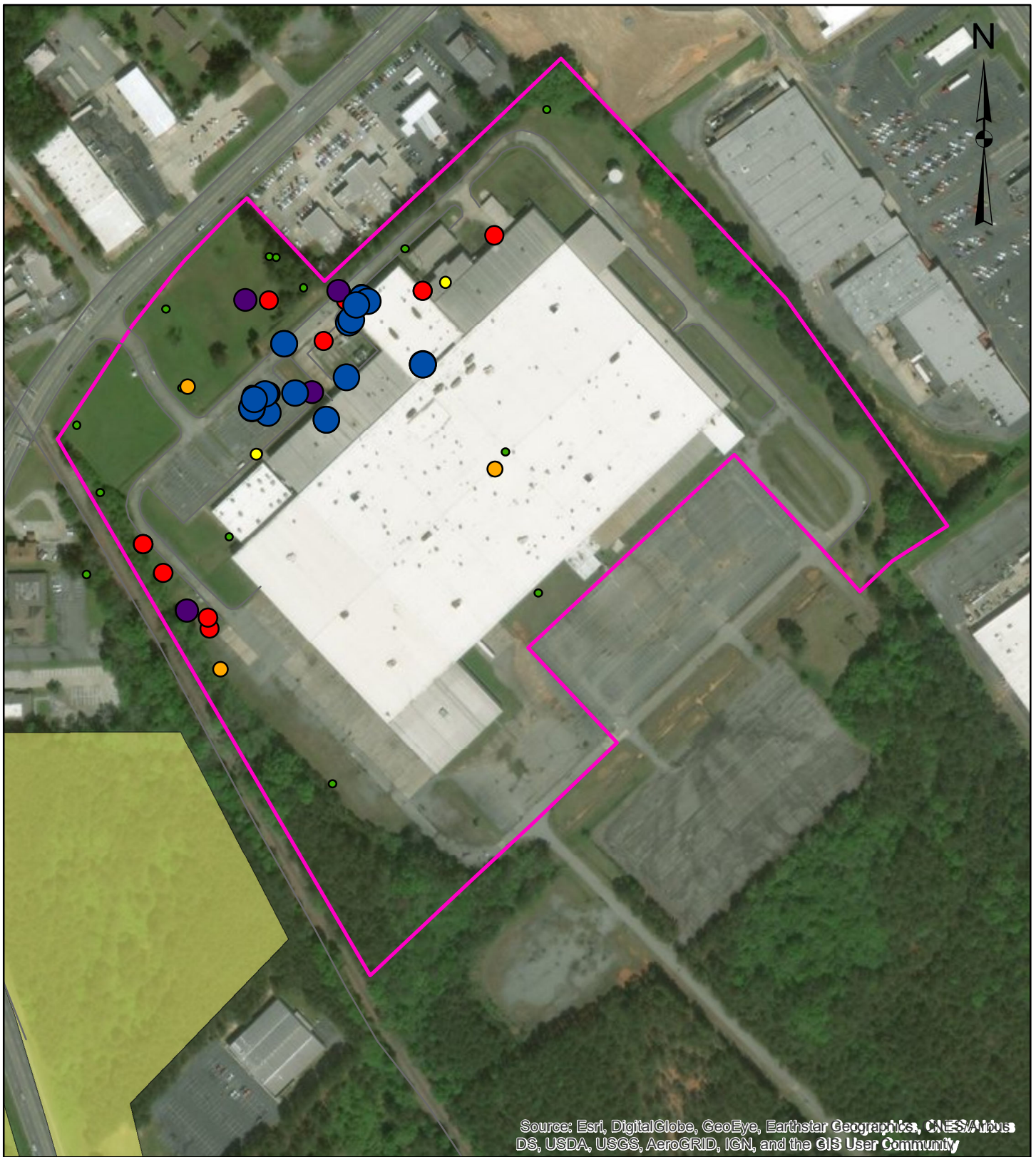


0 400 800
Feet

Legend

-  Facility Property Line
-  Recently Acquired Parcel

Parcel Aquisition Map
Rheem Manufacturing Company
Milledgeville, Georgia



Legend

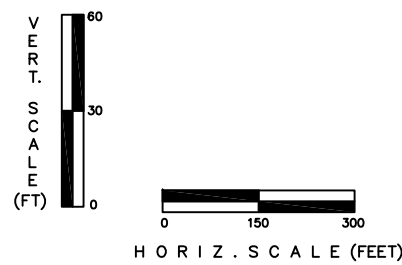
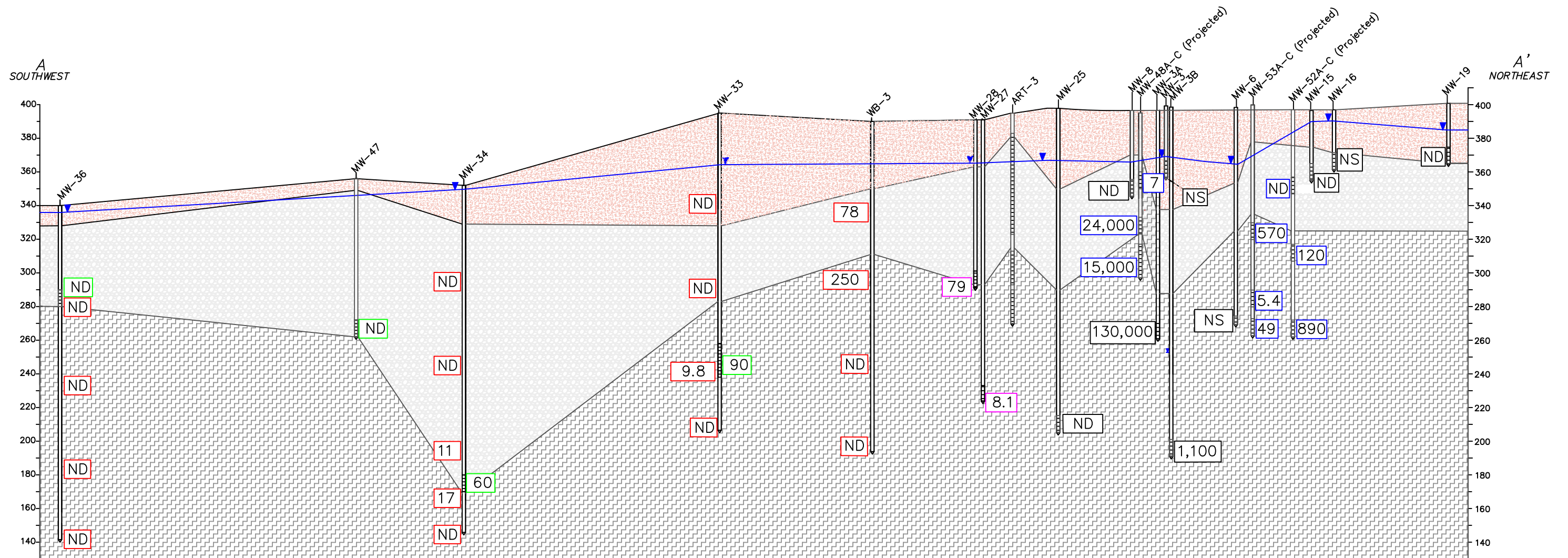
- Facility Property Line
- Recently Acquired Parcels

TCE Concentration (ppb)

- Non-Detect
- < 10
- 10 - 100
- 100 - 1,000
- 1,000 - 10,000
- > 10,000

**Maximum TCE Concentration
in Groundwater**

Rheem Manufacturing Company
Milledgeville, Georgia



LEGEND			
	RESIDUUM		SCREENED INTERVAL
	PARTIALLY WEATHERED ROCK		TRICHLOROETHENE (TCE) CONCENTRATIONS IN GROUNDWATER (ug/L) [April 2015]
	BEDROCK		TRICHLOROETHENE (TCE) CONCENTRATIONS IN GROUNDWATER (ug/L) [April 2016]
	WATER TABLE ELEVATION JUNE 2013		TRICHLOROETHENE (TCE) CONCENTRATIONS IN GROUNDWATER (ug/L) [December 2015]
	Projected WELL PROJECTED INTO PLANE OF CROSS-SECTION		TRICHLOROETHENE (TCE) CONCENTRATIONS IN GROUNDWATER (ug/L) [JUNE 2013]
			NOT SAMPLED; NON-DETECT
			DISCRETE INTERVAL (PACKER SAMPLE TESTING) TCE CONCENTRATION (SAMPLE DATES BELOW) WB-3 = JUNE 2011 MW-33 = OCT. 2011 MW-34 = JULY 2012 MW-36 = SEPT. 2012

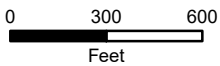


Hydrogeologic Profile A - A'
Rheem Manufacturing Company
Milledgeville, GA

Figure No. 5A



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



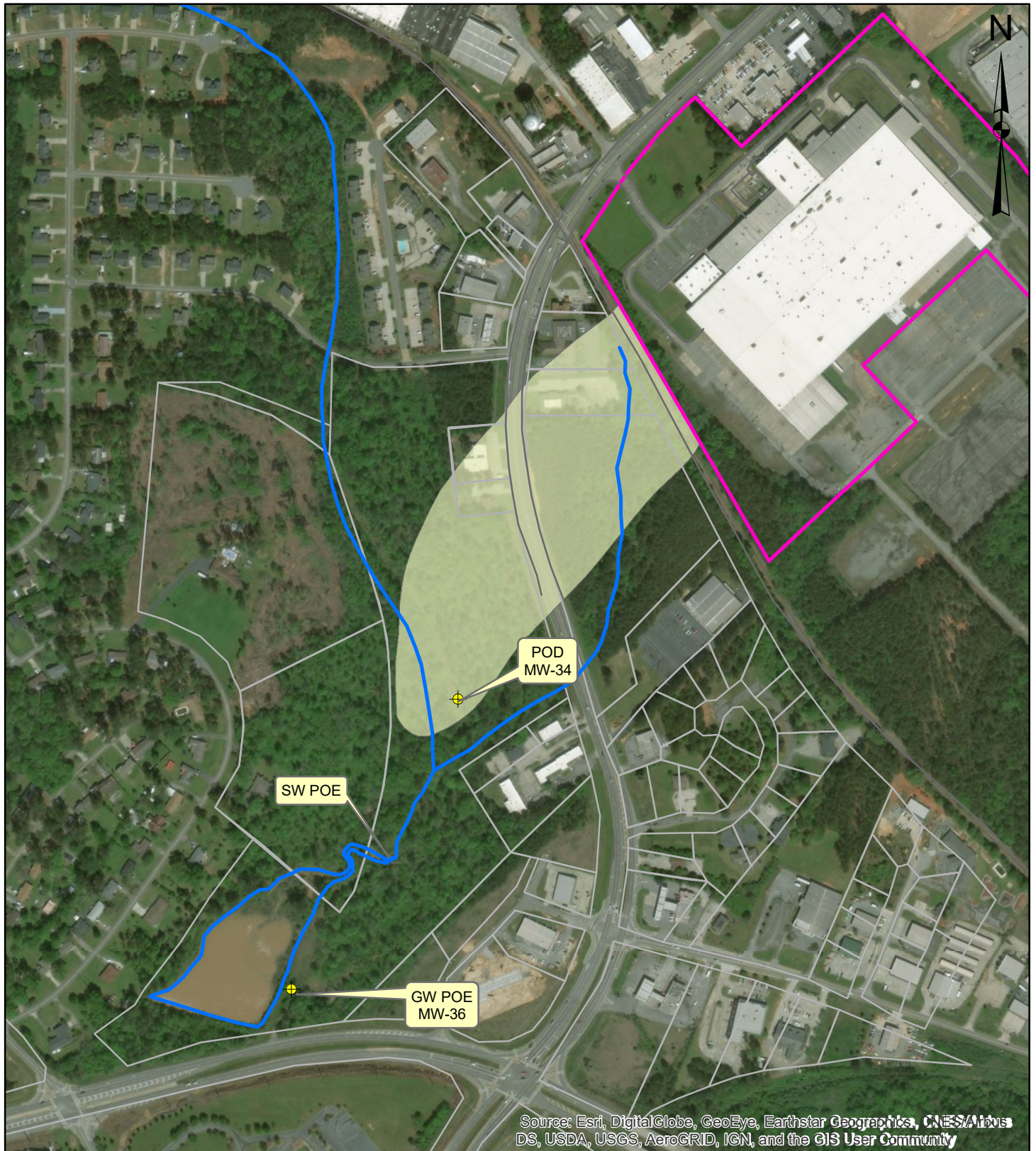
Legend

- Facility Property Line
- ⊕ Monitoring Well
- ⊕ Remediation Well

- Recently Acquired Parcels
- Cross Section
- A - A'

Hydrogeologic Profile Location

Rheem Manufacturing Company
Milledgeville, Georgia



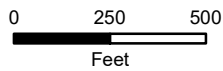
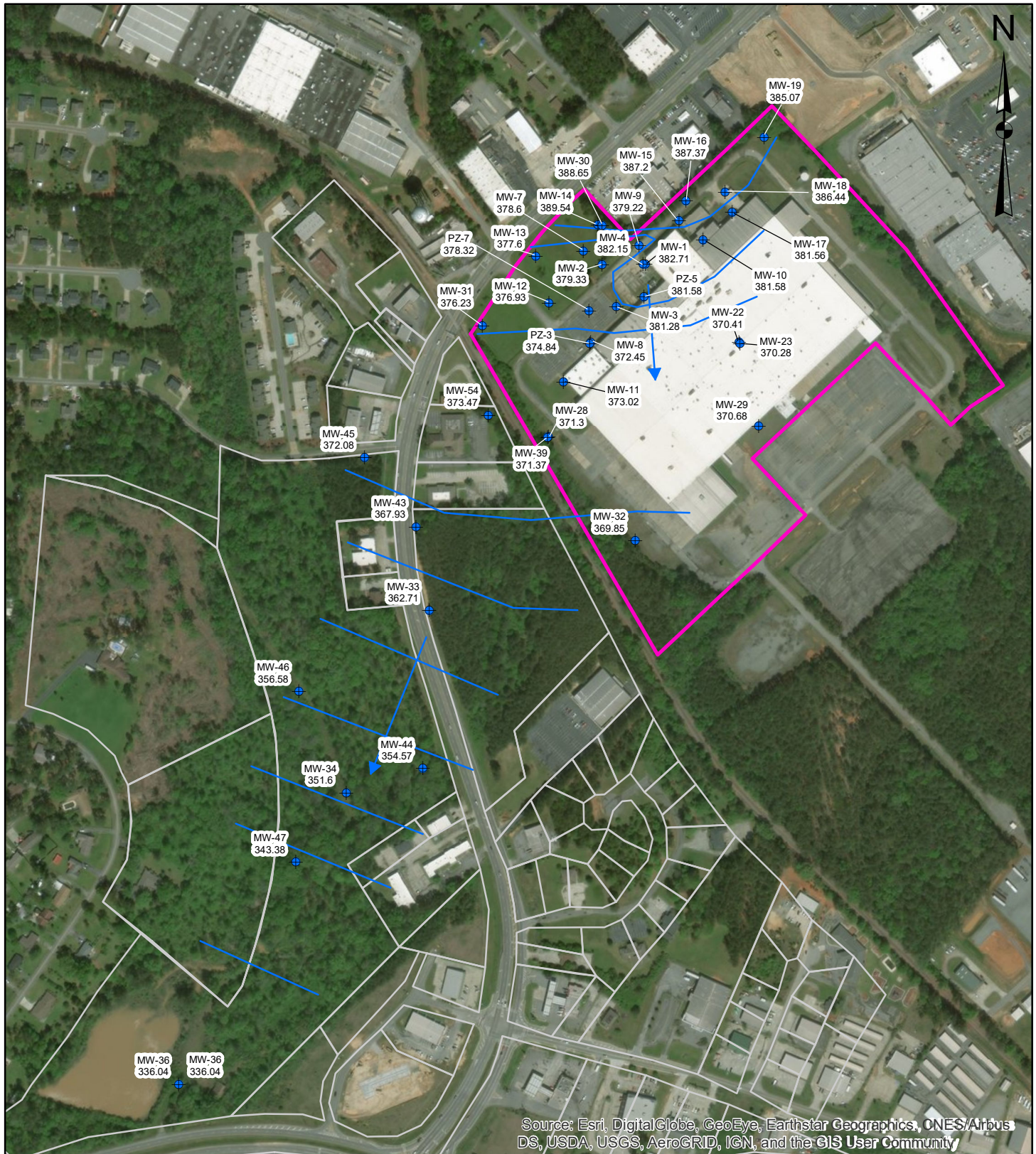
0 250 500
Feet

Legend

- Facility Property Line
- Pond
- TCE Plume
- Intermittent Streams

Groundwater and Surface Water Point of Demonstration and Points of Exposure

Rheem Manufacturing Company
Milledgeville, Georgia



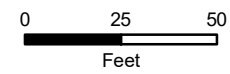
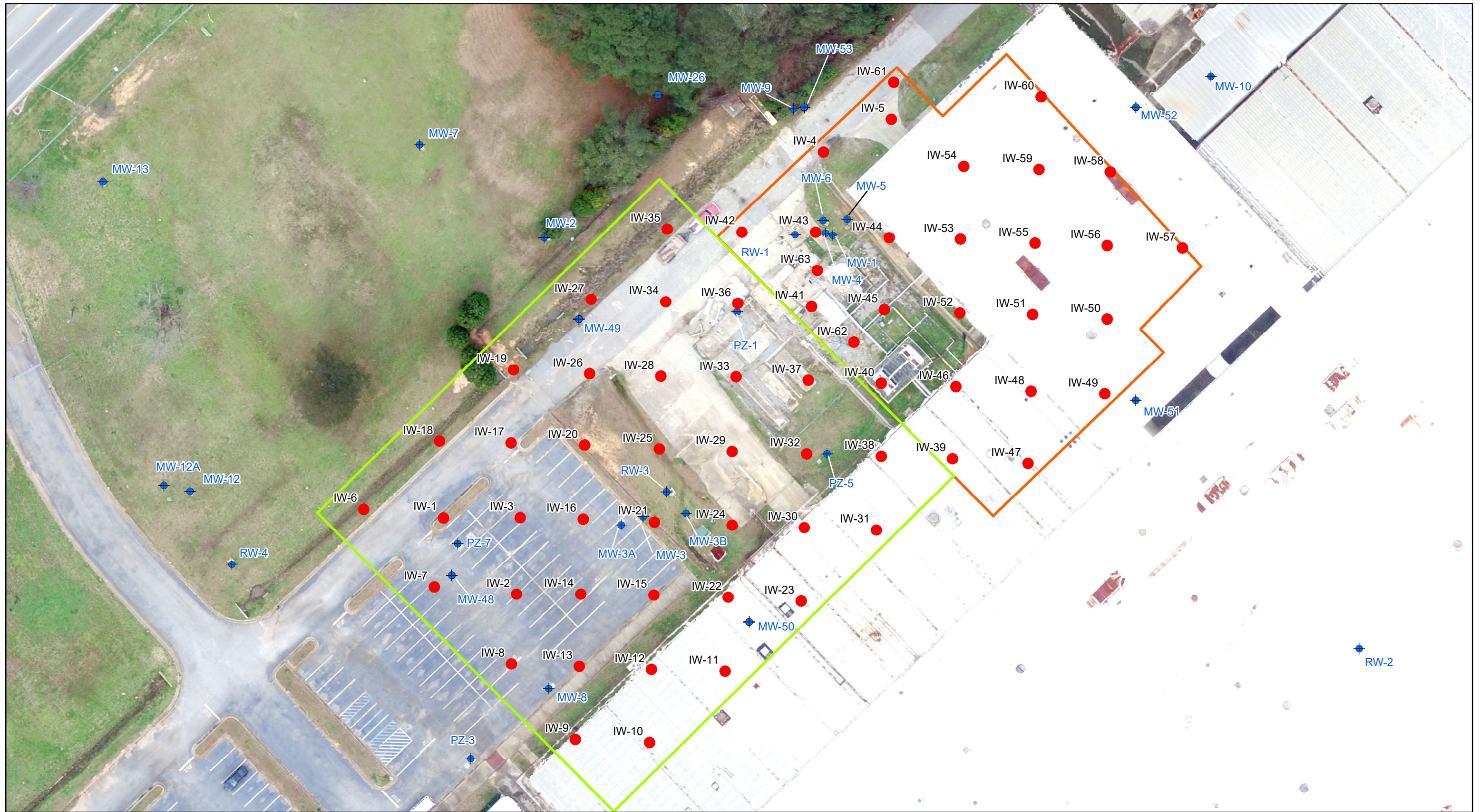
Legend

- Facility Property Line
- + Monitoring Well
- 335.7 Groundwater Elevation (ft)

- 360 Potentiometric Surface Contour
- Groundwater Flow Direction
- NA Not Accessible

**Potentiometric Surface Map
(May 2018)**

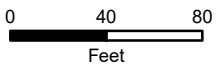
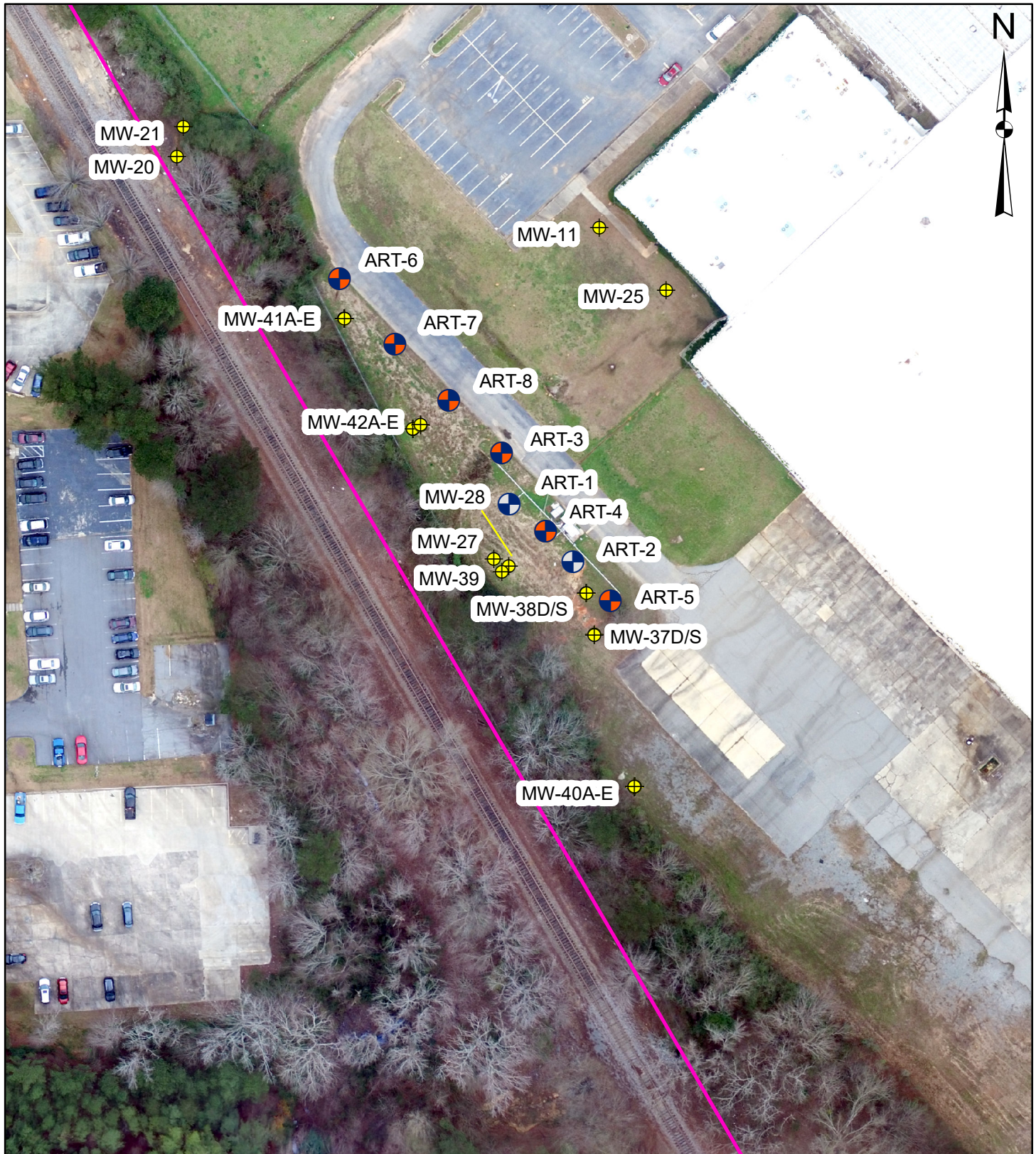
Rheem Manufacturing Company
Milledgeville, Georgia



Legend

- | | | |
|--|-----------------|-----------------------|
| | Monitoring Well | Remedial Zones |
| | Injection Well | |
| | | |
| | | Plume Zone |
| | | Release Area Zone |

In-Situ Bioremediation
 Treatment Zones and Well Network
 Rheem Manufacturing Company
 Milledgeville, Georgia

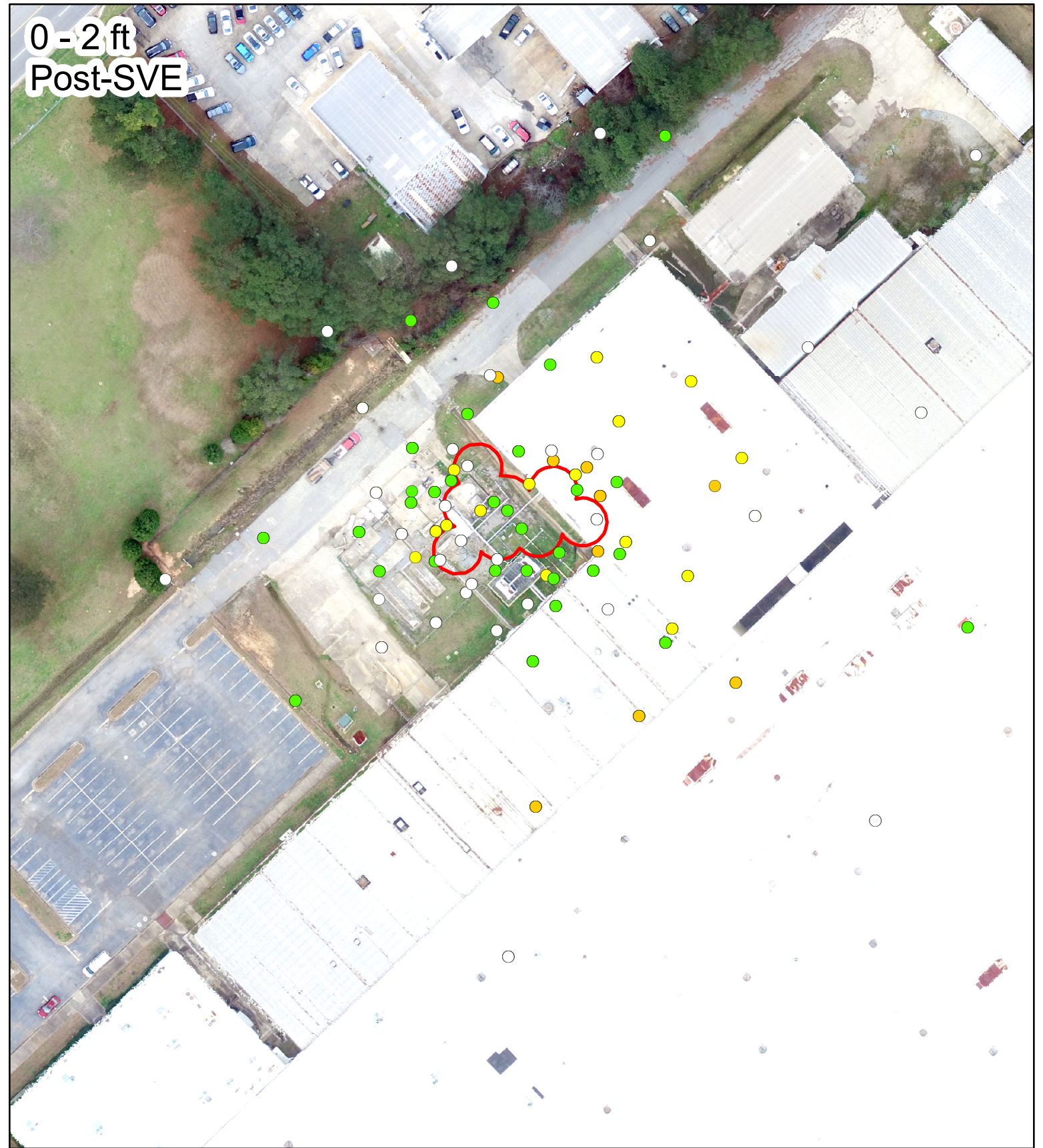
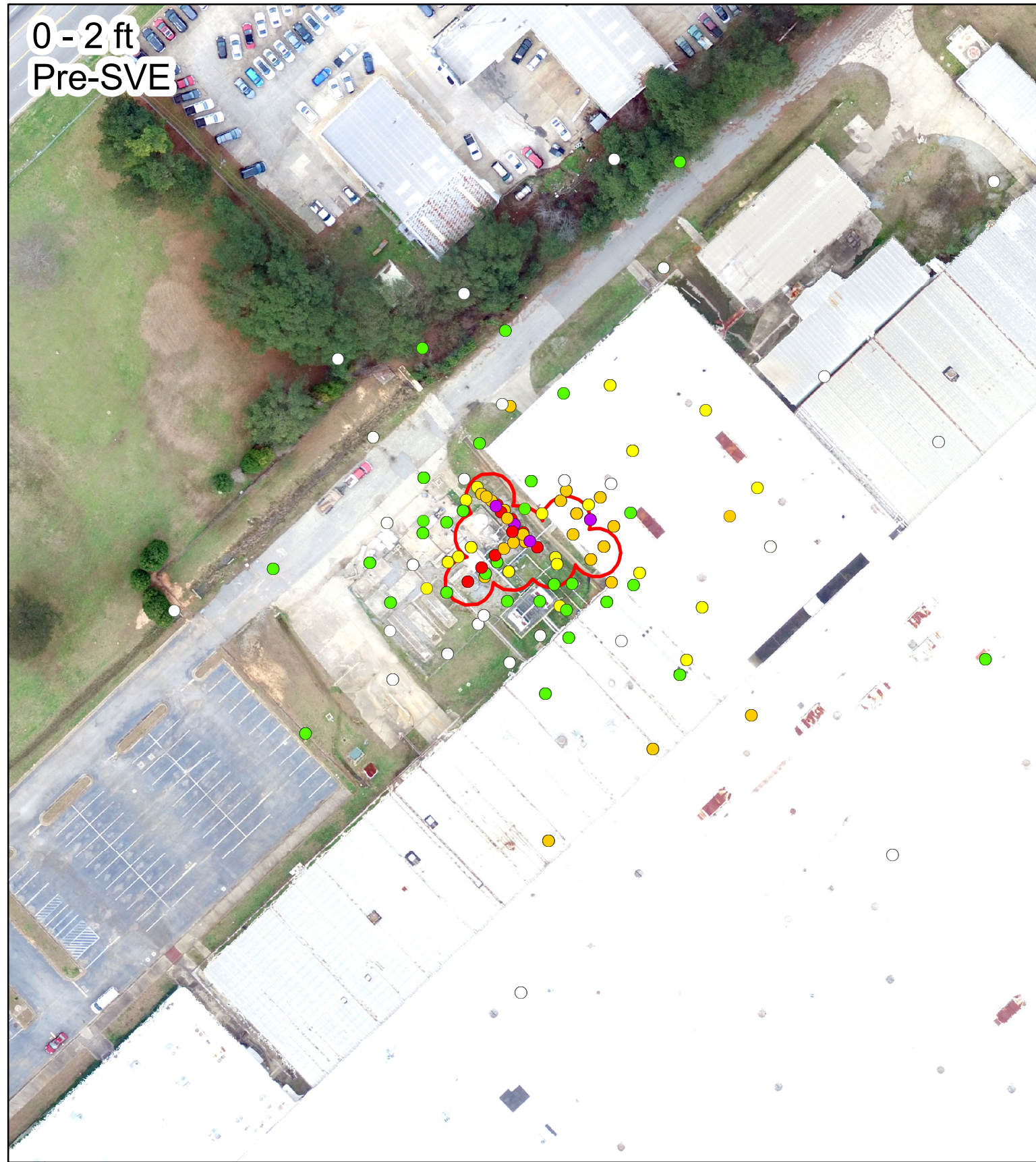


Legend

-  ART Well Location (Active)
-  ART Well Location (Inactive)
-  Facility Property Line
-  Monitoring Well

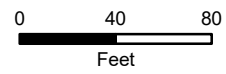
ART System Layout

Rheem Manufacturing Company
Milledgeville, Georgia



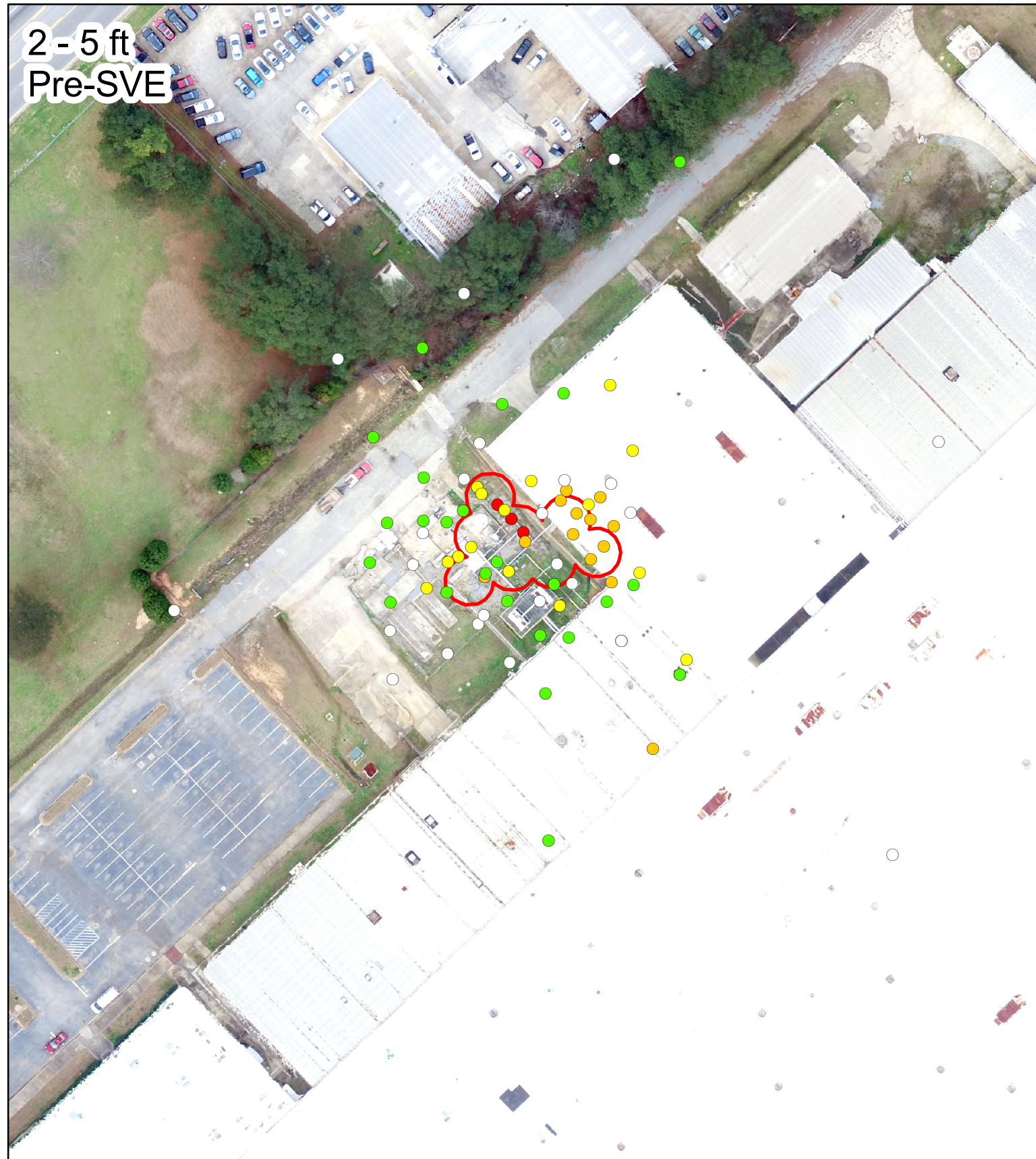
0 - 2 ft
Pre-SVE

0 - 2 ft
Post-SVE



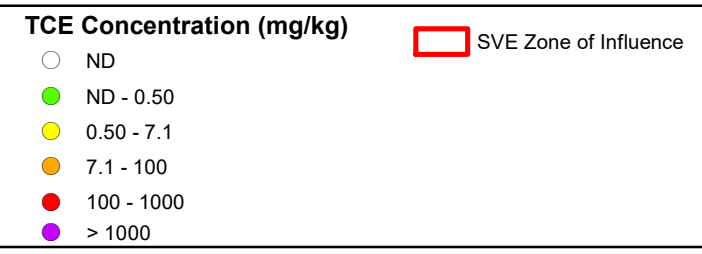
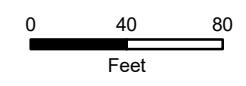
TCE Concentrations in Surface Soil

Rheem Manufacturing Company
Milledgeville, Georgia



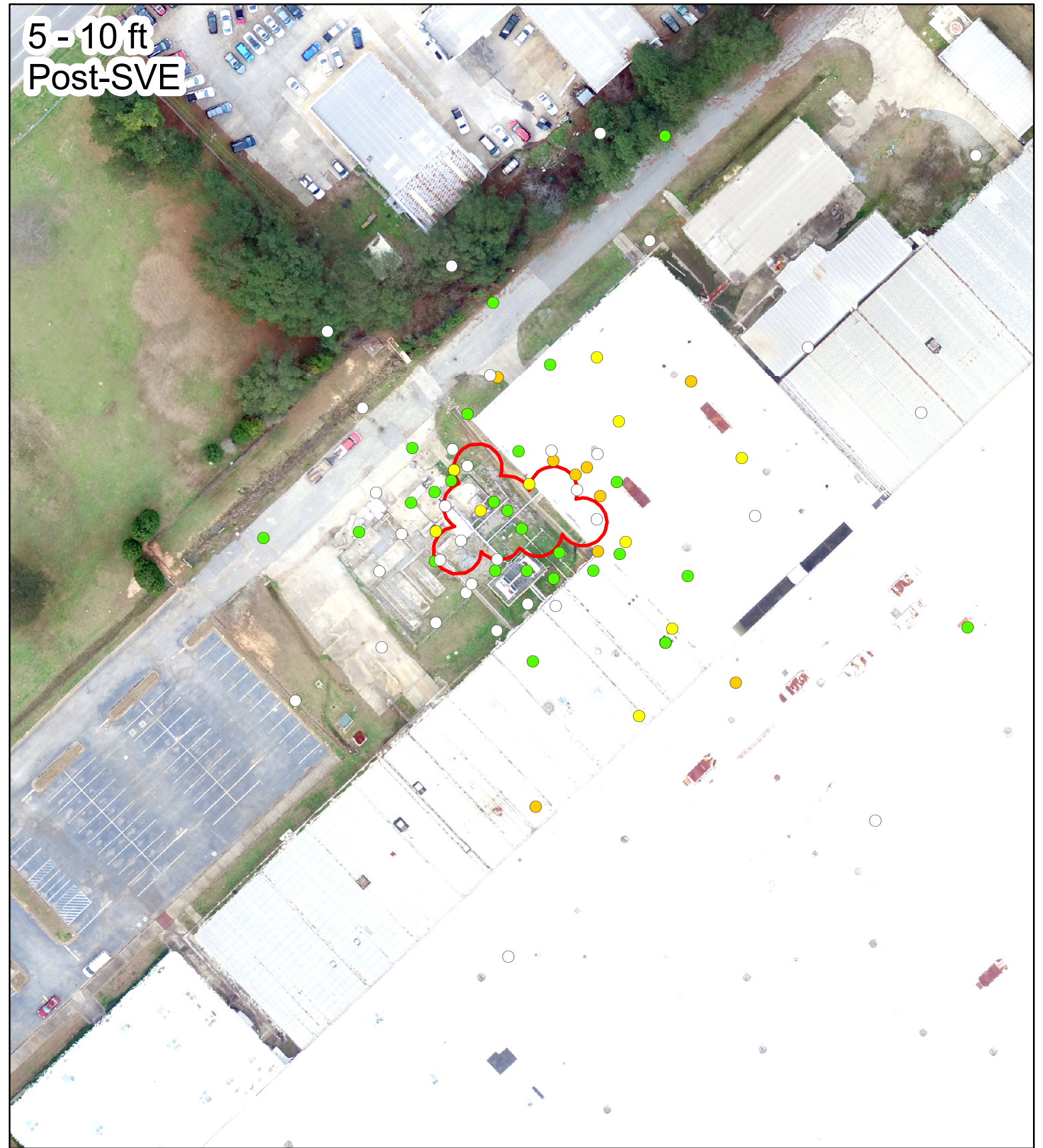
2 - 5 ft
Pre-SVE

2 - 5 ft
Post-SVE



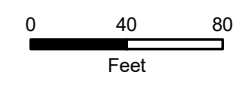
TCE Concentrations in Soil (2-5ft)

Rheem Manufacturing Company
Milledgeville, Georgia



5 - 10 ft
Pre-SVE

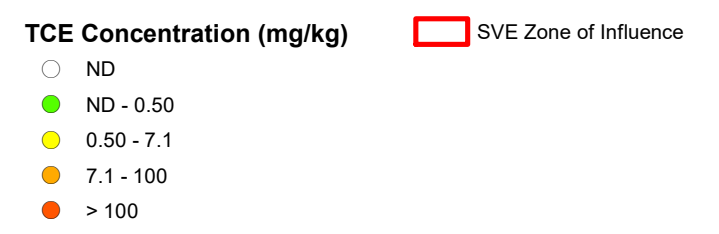
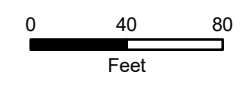
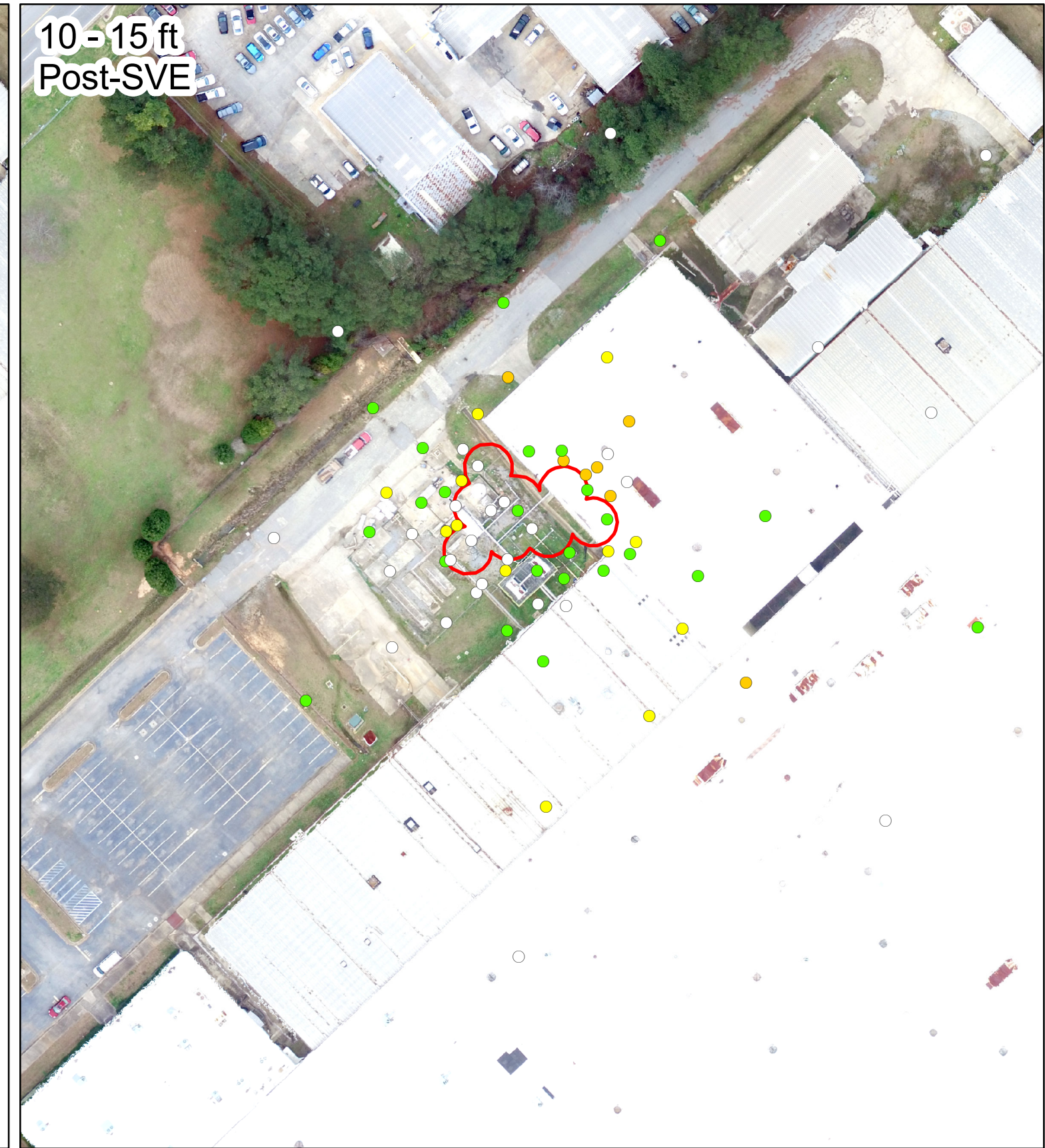
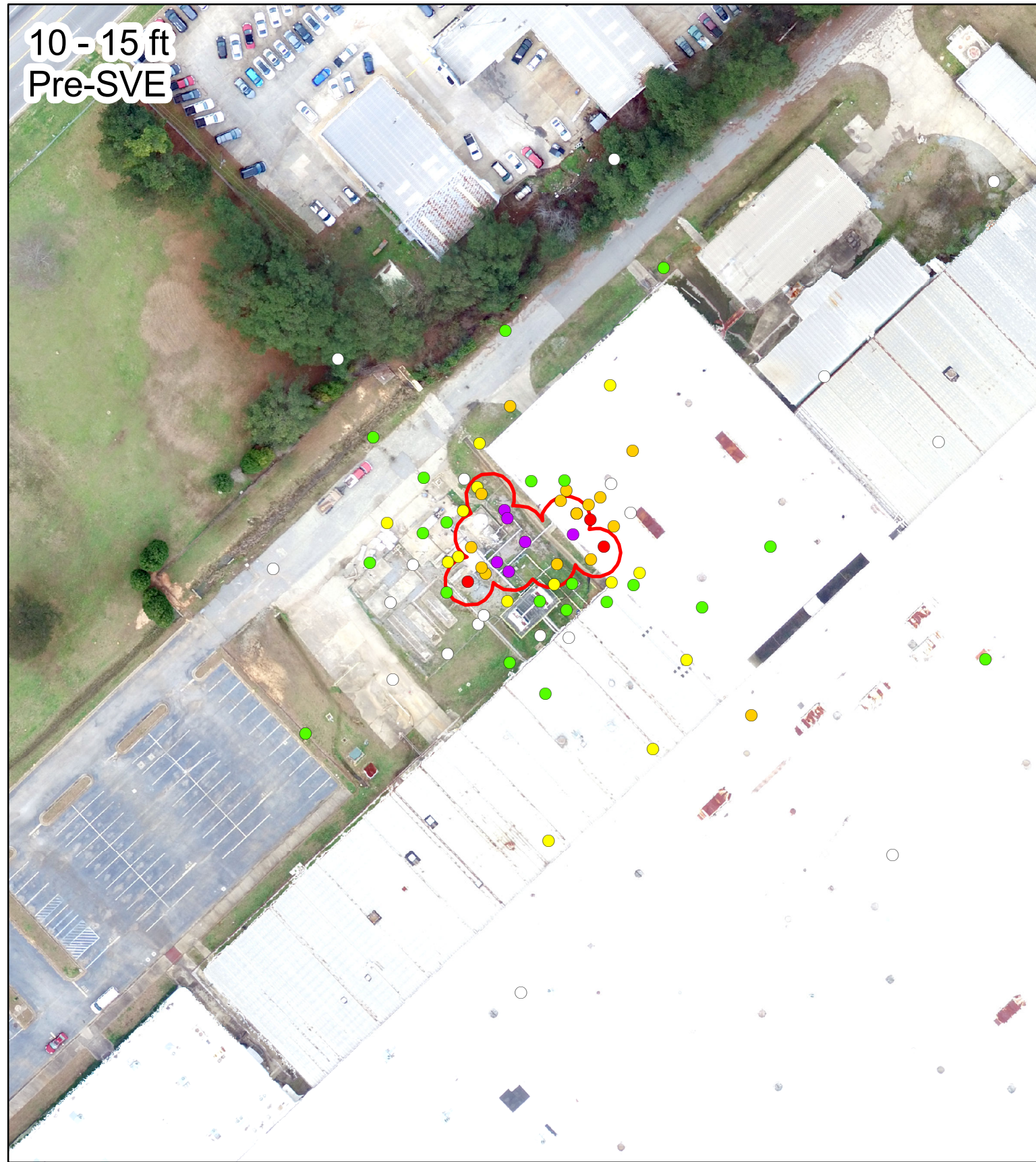
5 - 10 ft
Post-SVE



- TCE Concentration (mg/kg)**
- ND
 - ND - 0.50
 - 0.50 - 7.1
 - 7.1 - 100
 - 100 - 1000
 - > 1000
- SVE Zone of Influence

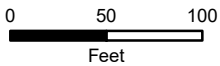
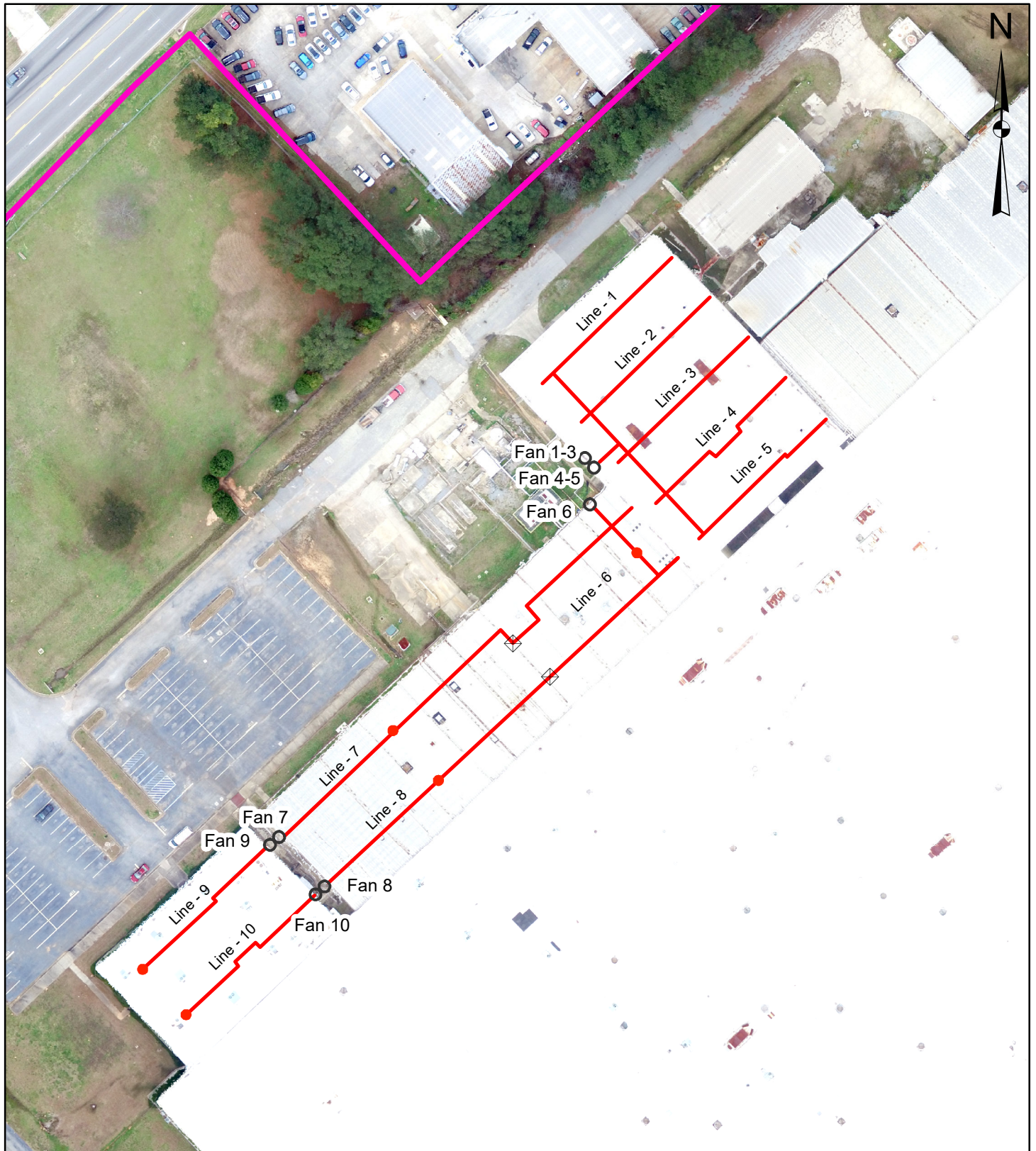
TCE Concentrations in Soil (5-10ft)

Rheem Manufacturing Company
Milledgeville, Georgia



TCE Concentrations in Soil (10-15ft)

Rheem Manufacturing Company
Milledgeville, Georgia

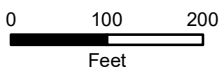
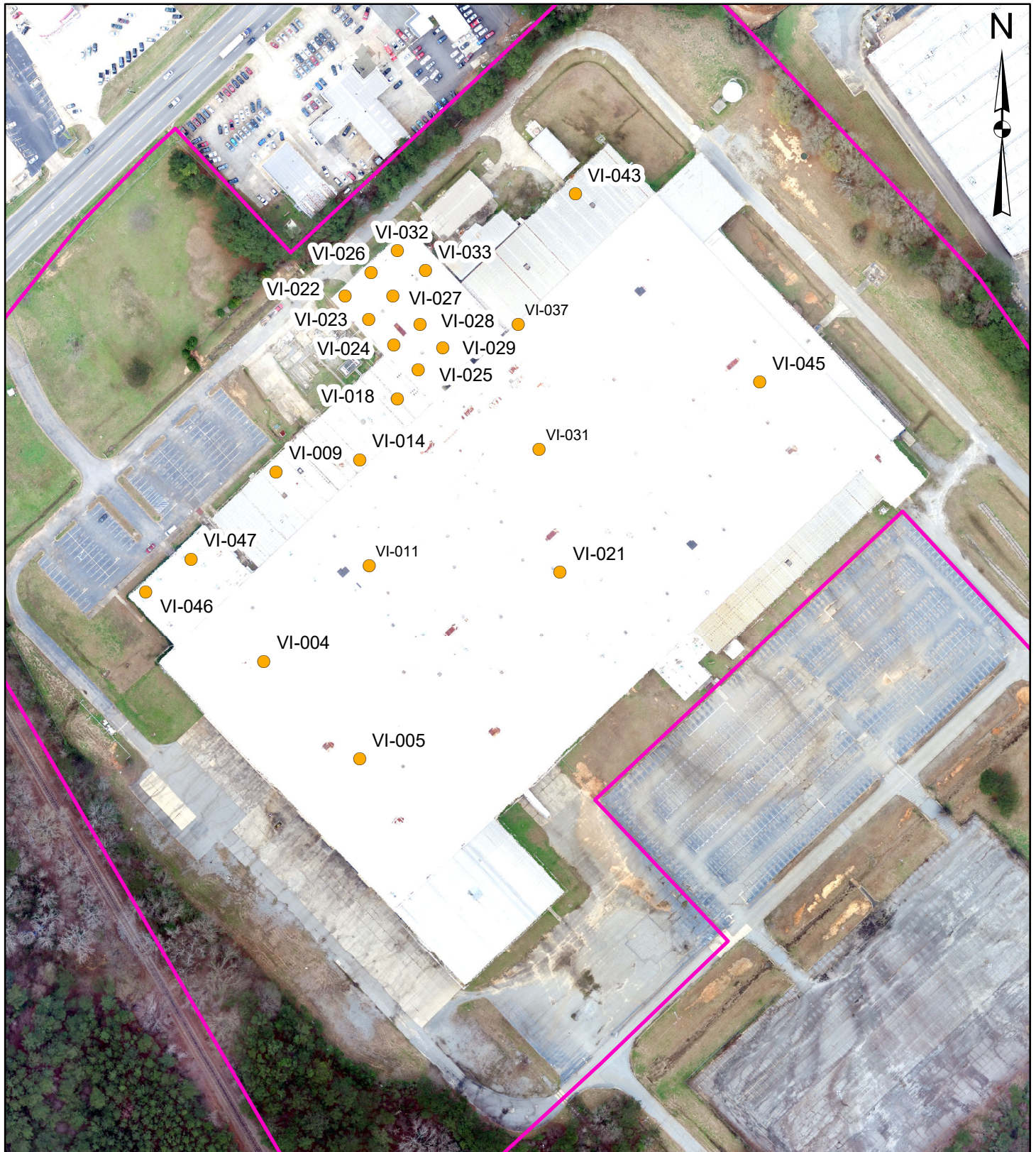


Legend

- Sub-Slab Depressurization Lines
- Access Vault
- Fan
- ⊠ Closed Valve

Sub-Slab Depressurization System Layout

Rheem Manufacturing Company
Milledgeville, Georgia

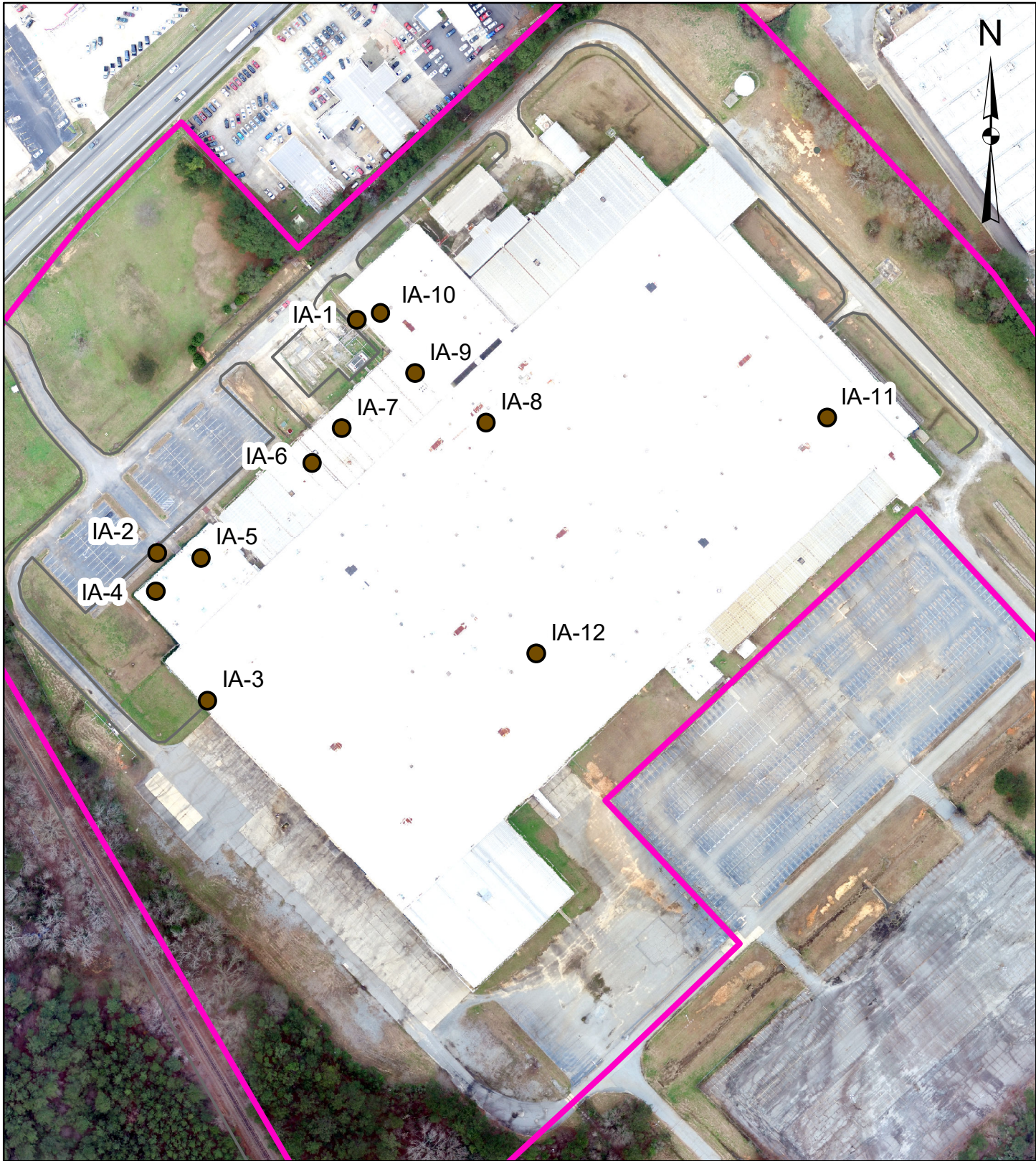


Legend

- Sub-Slab Soil Gas Sampling Location
- Facility Property Line

Proposed Soil Gas Sample Locations

Rheem Manufacturing Company
Milledgeville, Georgia



0 100 200
Feet

- Legend**
- Facility Property Line
 - Indoor Air Sample Locations

Proposed Indoor Air Sample Locations

Rheem Manufacturing Company
Milledgeville, Georgia

TABLES

Table 1A
Soil Risk Reduction Standards
Rheem Manufacturing Company
Milledgeville, Georgia

Analyte	Type 1	Type 2	Residential RRS*	Type 3 RRS		Type 4 RRS		Non-Residential RRS	
	RRS mg/kg	RRS mg/kg		SS mg/kg	SB mg/kg	SS mg/kg	SB mg/kg	SS mg/kg	SB mg/kg
1,1,1-Trichloroethane	20	19	20	20	20	96	96	96	96
1,1,2-Trichloroethane	0.5	0.032	0.5	0.5	0.5	0.032	0.032	0.5	0.5
1,1-Dichloroethene	0.7	0.74	0.74	0.7	0.7	3.76	3.76	3.8	3.8
2-Butanone (MEK)	200	9.5	200	200	200	49	49	200	200
Acetone	400	33	400	400	400	187	187	400	400
Carbon tetrachloride	0.5	0.044	0.5	0.5	0.5	0.079	0.079	0.5	0.5
Chloroform	3.9	0.44	3.9	8	8	0.443	0.443	8	8
cis-1,2-Dichloroethene	7	0.41	7	7	7	1.20	1.20	7	7
Dichlorobromomethane	3.7	0.43	3.7	8	8	0.43	0.43	8	8
Dichloromethane	0.5	0.38	0.5	0.5	0.5	2.32	2.32	2.3	2.3
Ethyl benzene	70	16	70	70	70	16	16	70	70
m-Xylene	20	1.1	20	20	20	5.62	5.62	20	20
o-Xylene	20	1.2	20	20	20	5.67	5.67	20	20
p-Xylene	20	1.1	20	20	20	5.62	5.62	20	20
Tetrachloroethene	0.5	0.17	0.5	0.5	0.5	0.89	0.89	0.89	0.89
Toluene	100	14	100	100	100	73	73	100	100
trans-1,2-Dichloroethene	10	2.0	10	10	10	13	13	13	13
Trichloroethene	0.5	0.036	0.5	0.5	0.5	0.037	0.037	0.5	0.5
Clean-up Standards (Direct-contact RRSs)									
	Residential - Type 2		Industrial Worker - Type 4 SS			Construction Worker - Type 4 SS/SB			
Trichloroethene	1.4		21			38			

Residential RRS: Higher of Type 1 and Type 2

Non-Residential RRS: Higher of Type 3 and Type 4

SS: Surface Soil (<= 2ft)

SB: Subsurface Soil (> 2ft)

* Delineation Standards

Table 1B
Groundwater Risk Reduction Standards
Rheem Manufacturing Company
Milledgeville, Georgia

Analyte	Type 1 RRS	Type 2	Residential	Type 3 RRS	Type 4 RRS	Non-Residential
	mg/L	RRS mg/L	RRS mg/L	mg/L	mg/L	RRS mg/L
1,1,1-Trichloroethane	0.20	2.7	2.7	0.20	14	14
1,1,2,2-Tetrachloroethane	0.00020	0.00089	0.00089	0.00020	0.0013	0.0013
1,1,2-Trichloroethane	0.0050	0.00012	0.0050	0.0050	0.00058	0.0050
1,1-Dichloroethane	4	0.032	4	4	0.046	4
1,1-Dichloroethene	0.0070	0.10	0.10	0.0070	0.52	0.52
1,2-Dichloroethane	0.0050	0.0020	0.0050	0.0050	0.0029	0.0050
1,2-Dichloropropane	0.0050	0.0016	0.0050	0.0050	0.0021	0.0050
2-Butanone (MEK)	2.0	2.3	2.3	2.0	12	12
4-Methyl-2-pentanone	2.0	1.8	2.0	2.0	8.8	8.8
Acetone	4.0	8.0	8.0	4.0	46	46
Barium	2.0	3.1	3.1	2.0	20	20
Benzene	0.0050	0.0054	0.0054	0.0050	0.0087	0.0087
Bromoform	0.080	0.038	0.080	0.080	0.062	0.080
Carbon disulfide	4.0	0.33	4.0	4.0	1.7	4.0
Carbon tetrachloride	0.0050	0.0057	0.0057	0.0050	0.010	0.010
Chloroform	0.080	0.0026	0.080	0.080	0.0034	0.080
Chloromethane	0.0030	0.054	0.054	0.0030	0.26	0.26
Chromium	0.10	0.10	0.10	0.10	0.10	0.10
Chromium III	Bkg/DL	23	23	Bkg/DL	153	153
Chromium, hexavalent	Bkg/DL	0.0017	0.0017	Bkg/DL	0.0057	0.0057
cis-1,2-Dichloroethene	0.070	0.031	0.070	0.070	0.20	0.20
Dibromochloromethane	0.080	0.010	0.080	0.080	0.034	0.080
Dichlorobromomethane	0.080	0.0016	0.080	0.080	0.0021	0.080
Dichloromethane	0.0050	0.074	0.074	0.0050	0.45	0.45
Ethyl benzene	0.70	0.019	0.70	0.70	0.029	0.70
Freon-12	1.0	0.058	1.0	1.0	0.29	1.0
Isopropylbenzene	Bkg/DL	0.21	0.21	Bkg/DL	1.0	1.0
m-Xylene	Bkg/DL	0.058	0.058	Bkg/DL	0.29	0.29
o-Xylene	Bkg/DL	0.058	0.058	Bkg/DL	0.29	0.29
p-Xylene	Bkg/DL	0.058	0.058	Bkg/DL	0.29	0.29
Tetrachloroethene	0.005	0.019	0.019	0.0050	0.098	0.098
Toluene	1.0	0.88	1.0	1.0	5.2	5.2
trans-1,2-Dichloroethene	0.10	0.31	0.31	0.10	2.0	2.0
Trichloroethene	0.0050	0.0010	0.0050	0.0050	0.0052	0.0052
Vinyl chloride	0.0020	0.0011	0.0020	0.0020	0.0033	0.0033
Xylenes	10	0.058	10	10	0.29	10

Residential RRS: Higher of Type 1 and Type 2

NonResidential RRS: Higher of Type 3 and Type 4

Table 2
Screening of Soil Data against RRSs
Rheem Manufacturing Company
Milledgeville, Georgia

Surface Soil (SS, <= 2 ft)

Parameter	Maximum Detected Concentration in SS (mg/kg)	Residential		Non-Residential		Constituent of Concern
		SS RRS (mg/kg)	# Samples above RRS / # Samples	SS RRS (mg/kg)	# Samples above RRS / # Samples	
1,1,2-Trichloroethane	0.02	0.5	0/53	0.5	0/53	No
2-Butanone (MEK)	0.49	200	0/53	200	0/53	No
Acetone	0.28	400	0/53	400	0/53	No
Chloroform	0.013	3.9	0/53	8	0/53	No
cis-1,2-Dichloroethene	0.16	7	0/53	7	0/53	No
Tetrachloroethene	0.0077	0.5	0/53	0.89	0/53	No
Trichloroethene	3.4	0.5	8/58	0.5	8/58	Yes

Subsurface Soil (SB, > 2 ft)

Parameter	Maximum Detected Concentration in SB (mg/kg)	Non-Residential SB RRS (mg/kg)	# Samples Above RRS / # Samples	Constituent of Concern
1,1,1-Trichloroethane	0.011	96	0/143	No
1,1,2-Trichloroethane	0.017	0.5	0/143	No
1,1-Dichloroethene	0.027	3.8	0/151	No
2-Butanone (MEK)	10	200	0/143	No
Acetone	0.45	400	0/143	No
Carbon tetrachloride	0.015	0.5	0/143	No
Chloroform	0.035	8	0/143	No
cis-1,2-Dichloroethene	0.85	7	0/151	No
Dichlorobromomethane	0.018	8	0/143	No
Dichloromethane	0.064	2.3	0/143	No
Ethyl benzene	2.5	70	0/143	No
Freon-12	0.086	100	0/143	No
m&p-Xylene	8.1	20	0/143	No
o-Xylene	2.7	20	0/143	No
Tetrachloroethene	0.011	0.89	0/143	No
Toluene	0.33	100	0/143	No
trans-1,2-Dichloroethene	0.057	13	0/151	No
Trichloroethene	110	0.5	78/272	Yes

Notes:

RRS: Risk Reduction Standards
mg/kg: milligrams per kilogram

Table 3
Soil Compliance
Rheem Manufacturing Company
Milledgeville, Georgia

Receptor	Site-Specific RRS		Soil Horizon	Maximum TCE Concentration (mg/kg)	95% UCL (mg/kg)	In Compliance
Site Worker	21	Type 4	0-2 ft	3.4	0.96	Yes
Construction Worker	38	Type 4	0 - 10 ft	55	5.9	Yes

Notes:

RRS: Risk Reduction Standards

mg/kg: milligrams per kilogram

Table 4
Groundwater Elevations
Rheem Manufacturing Company
Milledgeville, Georgia

Well No.	Date Gauged	Top of Casing Elevation (ft-amsl)	Screened/Open Depth Interval (ft-bgs)	Depth to Groundwater (ft-bTOC)	Groundwater Elevation (ft-bgs)
MW-1	05/02/18	398.40	29 - 44	15.69	382.71
MW-2	05/02/18	398.83	29 - 39	19.50	379.33
MW-3	05/02/18	399.04	30 - 40	17.76	381.28
MW-4	05/02/18	398.40	14 - 24	16.25	382.15
MW-7	05/02/18	400.51	40 - 50	21.91	378.60
MW-8	05/02/18	396.01	41 - 51	23.56	372.45
MW-9	05/02/18	398.14	35 - 45	18.92	379.22
MW-10	05/02/18	399.69	33 - 43	18.11	381.58
MW-11	05/02/18	396.68	58 - 68	23.66	373.02
MW-12	05/02/18	399.31	44 - 54	22.38	376.93
MW-13	05/02/18	401.28	45 - 55	23.68	377.60
MW-14	05/02/18	403.89	39 - 49	14.35	389.54
MW-15	05/02/18	396.45	31.5 - 41.5	9.25	387.20
MW-16	05/02/18	396.88	25.5 - 35.5	9.51	387.37
MW-17	05/02/18	401.01	27 - 37	19.45	381.56
MW-18	05/02/18	400.16	2.5 - 17.5	13.72	386.44
MW-19	05/02/18	400.75	26 - 36	15.68	385.07
MW-20	05/02/18	393.29	9 - 24	NF	NF
MW-21	05/02/18	394.22	41 - 51	NF	NF
MW-22	05/02/18	397.00	70 - 80	26.59	370.41
MW-23	05/02/18	396.96	22 - 32	26.68	370.28
MW-28	05/02/18	391.58	90 - 100	20.28	371.30
MW-29	05/02/18	396.02	52 - 62	25.34	370.68
MW-30	05/02/18	404.98	63 - 73	16.33	388.65
MW-31	05/02/18	399.83	75 - 85	23.60	376.23
MW-32	05/02/18	389.26	77 - 87	19.41	369.85
MW-33	05/02/18	392.08	137 - 157	29.37	362.71
MW-34	05/02/18	352.76	172 - 182	1.16	351.60
MW-35	05/02/18	364.16	87 - 107	NA	NA
MW-36	05/02/18	339.48	50 - 60	3.44	336.04
MW-39	05/02/18	391.39	30 - 40	20.02	371.37
MW-43	05/02/18	392.91	97 - 107	24.98	367.93
MW-44	05/02/18	361.74	65 - 75	7.17	354.57
MW-45	05/02/18	393.98	85 - 95	21.90	372.08
MW-46	05/02/18	359.01	32 - 52	2.43	356.58
MW-47	05/02/18	347.98	74 - 94	4.60	343.38
MW-54	05/02/18	389.92	130-140	16.45	373.47
PZ-1	05/02/18	395.71	20 - 40	NS	NS
PZ-3	05/02/18	396.00	44 - 54	21.16	374.84
PZ-5	05/02/18	398.55	46 - 56	16.97	381.58
PZ-7	05/02/18	394.95	53 - 63	16.63	378.32

Notes:

ft-bgs: feet below ground surface

ft-bTOC: feet below top-of-casing

NF: well not found

NA: well not accessible due to surface water

Table 5
Well Construction Details
Rheem Manufacturing Company
Milledgeville, Georgia

Well No.	Total Depth (ft-bgs)	Screened/Open Depth Interval (ft-bgs)	Top of Casing Elevation (ft-amsl)	Screened/Open Depth Elevation (ft-amsl)	Hydrogeologic Setting of Screened Interval	Installation Date
MW-1	44	29 - 44	398.40	369.40 - 354.40	Saprolite/PWR	11/02/88
MW-2	39	29 - 39	398.83	369.83 - 359.83	Saprolite/PWR	11/11/88
MW-3	40	30 - 40	399.04	369.04 - 359.04	Saprolite	11/09/88
MW-3A	135.5	125.5 - 135.5	395.69	270.19 - 260.19	Bedrock	09/12/90
MW-3B	209	199 - 209	397.81	198.81 - 188.81	Bedrock	08/01/91
MW-4	24	14 - 24	398.40	384.40 - 374.40	Saprolite	11/08/88
MW-5	86.5	76.5 - 86.5	398.55	322.05 - 312.05	Bedrock	04/27/89
MW-6	125	120 - 125	398.02	278.02 - 273.02	Bedrock	05/18/89
MW-7	50	40 - 50	400.51	360.51 - 350.51	PWR	06/29/89
MW-8	51	41 - 51	396.01	355.01 - 345.01	PWR	06/30/89
MW-9	45	35 - 45	398.14	363.14 - 353.14	PWR	06/29/89
MW-10	43	33 - 43	399.69	366.69 - 356.69	PWR	07/05/89
MW-11	68	58 - 68	396.68	338.68 - 328.68	PWR	11/30/89
MW-12	54	44 - 54	399.31	355.31 - 345.31	PWR	11/20/89
MW-12A	94.5	84.5 - 94.5	399.31	314.81 - 304.81	Bedrock	09/13/90
MW-13	55	45 - 55	401.28	356.28 - 346.28	PWR	11/28/89
MW-14	49	39 - 49	403.89	364.89 - 354.89	PWR	11/21/89
MW-15	41.5	31.5 - 41.5	396.45	364.95 - 354.95	PWR	12/04/89
MW-16	35.5	25.5 - 35.5	396.88	371.38 - 361.38	PWR	12/05/89
MW-17	37	27 - 37	401.01	374.01 - 364.01	Saprolite/PWR	12/06/89
MW-18	17.5	2.5 - 17.5	400.16	397.66 - 382.66	Saprolite	12/06/89
MW-19	36	26 - 36	400.75	374.75 - 364.75	Saprolite/PWR	11/31/89
MW-20	24	9 - 24	393.29	384.29 - 369.29	Saprolite	01/23/90
MW-21	51	41 - 51	394.22	353.22 - 343.22	Saprolite	01/22/90
MW-22	80	70 - 80	397.00	327.00 - 317.00	Saprolite/PWR	06/20/91
MW-23	32	22 - 32	396.96	374.96 - 364.96	Saprolite	06/26/91
MW-24	195	175 - 195	396.82	221.82 - 201.82	Bedrock	06/08/10
MW-25	197	184 - 194	396.45	209.45 - 199.45	Bedrock	06/07/10
MW-26	131	121 - 131	399.13	278.13 - 268.13	Bedrock	06/09/10
MW-27	168	158 - 168	391.25	233.25 - 223.25	Bedrock	09/21/10
MW-28	100	90 - 100	391.58	301.58 - 291.58	Bedrock	09/23/10
MW-29	62	52 - 62	396.02	344.02 - 334.02	PWR	09/22/10
MW-30	73	63 - 73	404.98	341.98 - 331.98	PWR	09/24/10
MW-31	85	75 - 85	399.83	324.83 - 314.83	Saprolite/PWR/Bedrock	07/11/11
MW-32	87	77 - 87	389.26	312.26 - 302.26	Saprolite/PWR/Bedrock	07/11/11
MW-33	157	137 - 157	392.08	255.08 - 235.08	Bedrock	10/27/11
MW-34	182	172 - 182	352.76	180.76 - 170.76	PWR	07/12/12
MW-35	109	87 - 107	364.16	275.16 - 255.16	PWR	07/15/12
MW-36	62	50 - 60	339.48	287.48 - 277.48	PWR	09/20/12
MW-37S	40	30 - 40	389.69	359.69 - 349.69	PWR	09/21/12
MW-37D	87	77 - 87	389.71	312.71 - 302.71	PWR	09/21/12
MW-38S	40	30 - 40	389.88	359.88 - 349.88	PWR	09/22/12
MW-38D	77	67 - 77	389.82	322.82 - 312.82	PWR	09/22/12
MW-39	40	30 - 40	391.39	361.39 - 351.39	Saprolite	09/22/12

Table 5
Well Construction Details
Rheem Manufacturing Company
Milledgeville, Georgia

Well No.	Total Depth (ft-bgs)	Screened/Open Depth Interval (ft-bgs)	Top of Casing Elevation (ft-amsl)	Screened/Open Depth Elevation (ft-amsl)	Hydrogeologic Setting of Screened Interval	Installation Date
MW-40A	200	185 - 195	388.58	198.58 - 188.58	Bedrock	08/06/13
MW-40B	152*	140 - 150	388.58	246.58 - 236.58	Bedrock	08/06/13
MW-40C	92*	80 - 90	388.57	306.57 - 296.57	Bedrock	08/06/13
MW-40D	72*	60 - 70	388.57	326.57 - 316.57	PWR	08/06/13
MW-40E	42*	30 - 40	388.59	356.59 - 346.59	PWR	08/06/13
MW-41A	200.5	195.5 - 200.5	391.80	196.3 - 191.3	Bedrock	07/28/13
MW-41B	142*	130 - 140	391.81	259.81 - 249.81	Bedrock	07/28/13
MW-41C	102*	90 - 100	391.81	299.81 - 289.81	Bedrock	07/28/13
MW-41D	82*	70 - 80	391.79	319.79 - 309.79	PWR	07/28/13
MW-41E	42*	30 - 40	391.80	359.80 - 349.80	PWR	07/28/13
MW-42A	200	182 - 192	390.96	200.96 - 190.96	Bedrock	08/05/13
MW-42B	174*	162 - 172	390.95	226.95 - 216.95	Bedrock	08/05/13
MW-42C	112*	100 - 110	390.91	288.91 - 278.91	Bedrock	08/05/13
MW-42D	85	75 - 85	390.92	315.92 - 305.92	PWR/Bedrock	08/06/13
MW-42E	42*	30 - 40	390.95	358.95 - 348.95	Saprolite/PWR	08/06/13
MW-43	112	97 - 107	392.91	290.91 - 280.91	PWR	08/10/13
MW-44	90	65 - 75	361.74	281.74 - 271.74	Bedrock	08/10/13
MW-45	95	85 - 95	393.98	308.98 - 298.98	PWR	12/17/13
MW-46	52	32 - 52	359.01	327.01 - 307.01	PWR	07/24/14
MW-47	94	74 - 94	347.98	273.98 - 253.98	PWR	07/25/14
MW-48A	98	78-98	NM	N/A	Bedrock	01/21/15
MW-48B	73*	62-72	NM	N/A	Bedrock	01/21/15
MW-48C	46*	35-45	NM	N/A	PWR	01/21/15
MW-49A	88	78-88	NM	N/A	Bedrock	01/22/15
MW-49B	69*	58-68	NM	N/A	PWR/Bedrock	01/22/15
MW-49C	41*	30-40	NM	N/A	Saprolite/PWR	01/22/15
MW-50A	138	123-138	NM	N/A	Bedrock	01/24/15
MW-50B	115*	104-114	NM	N/A	PWR/Bedrock	01/24/15
MW-50C	81*	70-80	NM	N/A	PWR	01/24/15
MW-51A	109	99-109	NM	N/A	Bedrock	01/26/15
MW-51B	95*	84-94	NM	N/A	PWR	01/26/15
MW-51C	61*	50-60	NM	N/A	PWR	01/26/15
MW-52A	144	125-135	NM	N/A	Bedrock	01/28/15
MW-52B	91*	80-90	NM	N/A	Bedrock	01/28/15
MW-52C	51*	40-50	NM	N/A	PWR	01/28/15
MW-53A	137	127-137	NM	N/A	Bedrock	01/30/15
MW-53B	121*	110-120	NM	N/A	Bedrock	01/30/15
MW-53C	81*	70-80	NM	N/A	PWR/Bedrock	01/30/15
MW-54	142	130-140	389.92	257.92 - 247.92	PWR	01/29/16

**Table 5
Well Construction Details
Rheem Manufacturing Company
Milledgeville, Georgia**

Well No.	Total Depth (ft-bgs)	Screened/Open Depth Interval (ft-bgs)	Top of Casing Elevation (ft-amsl)	Screened/Open Depth Elevation (ft-amsl)	Hydrogeologic Setting of Screened Interval	Installation Date
PZ-1	40	20 - 40	395.71	375.71 - 355.71	Saprolite	04/27/89
PZ-2 **	N/A	N/A	400.13	N/A	Saprolite	01/99 (1)
PZ-3	54	44 - 54	396.00	352.00 - 342.00	PWR	06/12/91
PZ-4	27.5	17.5 - 27.5	396.01	378.51 - 368.51	Saprolite	06/12/91
PZ-5	56	46 - 56	398.55	352.55 - 342.55	Saprolite	06/13/91
PZ-6	28	18 - 28	398.43	380.43 - 370.43	Saprolite	06/13/91
PZ-7	63	53 - 63	394.95	341.95 - 331.95	PWR	06/14/91
PZ-8	27	17 - 27	395.16	378.16 - 368.16	Saprolite	06/14/91
RW-1 ***	85	15 - 85	398.06	383.06 - 313.06	Saprolite/PWR	01/99 (2)
RW-2	90	20 - 90	399.25	379.25 - 309.25	Saprolite/PWR	06/30/91
RW-3	181	36 - 181	397.35	361.35 - 316.35	Saprolite/PWR/Bedrock	08/15/91
RW-4	73	28 - 73	398.10	370.10 - 325.10	Saprolite/PWR/Bedrock	07/26/91
ART-1	106	6-66, 76-106	394.05	388.05-328.05, 318.05-288.05	Saprolite/PWR/Bedrock	09/23/12
ART-2	105	10-55, 65-105	393.64	383.64-338.64, 328.64-288.64	Saprolite/PWR/Bedrock	09/24/12
ART-3	125	12-72, 82-102, 105-125	394.84	382.84-322.84, 312.84-292.84, 289.84-269.84	Saprolite/PWR/Bedrock	07/23/13
ART-4	120	12-67, 77-97, 100-120	393.71	381.71-326.71, 316.71-296.71, 293.71-273.91	Saprolite/PWR/Bedrock	07/25/13
ART-5	120	12-67, 77-97, 100-120	393.56	381.56-326.56, 316.56-296.56, 293.56-273.56	Saprolite/PWR/Bedrock	07/28/13
ART-6	125	15-95, 105-125	396.29	381.29-301.29, 291.29-271.29	Saprolite/PWR/Bedrock	02/19/16
ART-7	120	10-90, 100-120	395.49	385.92-305.92, 295.92-275.92	Saprolite/PWR	02/22/16
ART-8	120	10-90, 100-120	395.92	385.49-305.49, 295.49-275.50	Saprolite/PWR	02/25/16
IW-1	88*	38-48, 53-68, 73-88	NM	N/A	Saprolite/PWR/Bedrock	10/04/16
IW-2	106*	31-46, 51-66, 71-86, 91-106	NM	N/A	Saprolite/PWR/Bedrock	10/06/16
IW-3	116*	29-39, 44-54, 59-74, 79-94, 100-115	NM	N/A	Saprolite/PWR/Bedrock	10/08/16
IW-4	116*	20-35, 40-55, 60-75, 80-95, 100-115	NM	N/A	Saprolite/PWR/Bedrock	10/09/16
IW-5	118*	23-38, 43-58, 63-78, 83-98, 103-118	NM	N/A	Saprolite/PWR/Bedrock	10/11/16
IW-6	70	30-45, 55-70	NM	N/A	Saprolite/PWR	10/10/2017
IW-7	80	50-80	NM	N/A	Saprolite/PWR	10/12/2017
IW-8	104	29-74, 84-104	NM	N/A	Saprolite/PWR	10/11/2017
IW-9	120	50-75, 85-120	NM	N/A	Saprolite/PWR/Bedrock	10/14/2017
IW-10	115	45-75, 85-115	NM	N/A	Saprolite/PWR	10/16/2017
IW-11	125	50-80, 90-125	NM	N/A	PWR	10/15/2017
IW-12	120	50-80, 90-120	NM	N/A	Saprolite/PWR	10/15/2017
IW-13	98	48-68, 78-98	NM	N/A	Saprolite/PWR	11/11/2017
IW-14	105	50-70, 80-105	NM	N/A	Saprolite/PWR	11/9/2017
IW-15	99	49-59, 69-99	NM	N/A	Saprolite/PWR/Bedrock	11/11/2017
IW-16	108	53-83, 93-108	NM	N/A	Saprolite/PWR	11/12/2017
IW-17	90	50-90	NM	N/A	PWR	11/9/2017
IW-18	83	48-83	NM	N/A	PWR	10/11/2017
IW-19	80	50-80	NM	N/A	Saprolite/PWR	10/25/2017

Table 5
Well Construction Details
Rheem Manufacturing Company
Milledgeville, Georgia

Well No.	Total Depth (ft-bgs)	Screened/Open Depth Interval (ft-bgs)	Top of Casing Elevation (ft-amsl)	Screened/Open Depth Elevation (ft-amsl)	Hydrogeologic Setting of Screened Interval	Installation Date
IW-20	85	50-85	NM	N/A	Saprolite/PWR	10/25/2017
IW-21	80	50-80	NM	N/A	Saprolite/PWR	11/6/2017
IW-22	120	50-65, 75-120	NM	N/A	Saprolite/PWR	10/13/2017
IW-23	105	50-65, 75-105	NM	N/A	Saprolite/PWR	10/16/2017
IW-24	80	50-80	NM	N/A	PWR	11/7/2017
IW-25	80	50-80	NM	N/A	Saprolite/PWR	11/7/2017
IW-26	82	47-82	NM	N/A	PWR	11/6/2017
IW-27	77	42-77	NM	N/A	Saprolite/PWR	10/26/2017
IW-28	80	40-80	NM	N/A	Saprolite/Bedrock	11/8/2017
IW-29	90	40-60, 70-90	NM	N/A	Saprolite/PWR	11/1/2017
IW-30	90	40-55, 65-90	NM	N/A	Saprolite/PWR	10/14/2017
IW-31	100	40-65, 75-100	NM	N/A	Saprolite/PWR	10/16/2017
IW-32	90	40-60, 70-90	NM	N/A	Saprolite/PWR	10/30/2017
IW-33	80	25-40, 50-80	NM	N/A	Saprolite/PWR	11/7/2017
IW-34	70	40-70	NM	N/A	Saprolite/PWR	10/31/2017
IW-35	73.5	23-43, 53-73	NM	N/A	Saprolite	10/26/2017
IW-36	75	36-71	NM	N/A	Saprolite	10/28/2017
IW-37	90	30-55, 65-90	NM	N/A	Saprolite/PWR	10/27/2017
IW-38	100	25-60, 70-100	NM	N/A	Saprolite/PWR	10/17/2017
IW-39	100	25-60, 70-100	NM	N/A	Saprolite/PWR	10/17/2017
IW-40	90	30-65, 75-90	NM	N/A	Saprolite/PWR	10/12/2017
IW-41	90	30-60, 70-90	NM	N/A	Saprolite/PWR	10/27/2017
IW-42	70	25-40, 50-70	NM	N/A	Saprolite/PWR	10/27/2017
IW-43	60	25-60	NM	N/A	Saprolite/PWR	11/6/2017
IW-44	80	25-45, 55-80	NM	N/A	Saprolite/PWR	11/10/2017
IW-45	85	27-42, 52-82	NM	N/A	Saprolite/PWR	10/26/2017
IW-46	105	25-65, 75-105	NM	N/A	Saprolite/PWR	10/23/2017
IW-47	115	25-65, 75-115	NM	N/A	Saprolite	10/24/2017
IW-48	90	25-45, 55-90	NM	N/A	Saprolite/PWR	10/30/2017
IW-49	100	25-55, 65-100	NM	N/A	Saprolite/PWR	10/28/2017
IW-50	89	24-44, 54-89	NM	N/A	Saprolite/PWR	10/29/2017
IW-51	90	25-55, 65-90	NM	N/A	Saprolite/PWR	11/10/2017
IW-52	90	25-55, 65-90	NM	N/A	Saprolite/PWR	11/10/2017
IW-53	70	25-40, 50-70	NM	N/A	Saprolite/PWR	11/10/2017
IW-54	100	25-55, 65-100	NM	N/A	Saprolite/PWR	10/29/2017
IW-55	89	23-53, 63-88	NM	N/A	Saprolite/PWR	10/30/2017
IW-56	88	26-46, 56-86	NM	N/A	Saprolite	10/30/2017
IW-57	90	25-50, 60-90	NM	N/A	Saprolite/PWR	10/17/2017
IW-58	90	35-50, 60-90	NM	N/A	Saprolite/PWR	10/24/2017
IW-59	90	25-50, 60-90	NM	N/A	Saprolite/PWR	10/29/2017
IW-60	100	20-50, 60-95	NM	N/A	Saprolite/PWR	10/25/2017
IW-61	100	27-57, 67-97	NM	N/A	Saprolite/PWR	10/28/2017
IW-62	95	25-55, 65-95	NM	N/A	Saprolite/PWR	11/8/2017
IW-63	80	25-50, 60-80	NM	N/A	Saprolite/PWR	11/8/2017

Table 5
Well Construction Details
Rheem Manufacturing Company
Milledgeville, Georgia

Well No.	Total Depth (ft-bgs)	Screened/Open Depth Interval (ft-bgs)	Top of Casing Elevation (ft-amsl)	Screened/Open Depth Elevation (ft-amsl)	Hydrogeologic Setting of Screened Interval	Installation Date
PTW-1	50	35-50	NM	N/A	Saprolite	7/24/2017
PTW-2	50	35-50	NM	N/A	Saprolite	7/24/2017
PTW-3	50	35-50	NM	N/A	Saprolite	7/25/2017
PTW-4	50	35-50	NM	N/A	Saprolite	7/25/2017
PTW-5	55	40-55	NM	N/A	Saprolite/PWR	7/26/2017
PTW-6	56	41-56	NM	N/A	Saprolite/PWR	7/26/2017
PTW-7	60	45-60	NM	N/A	Saprolite/PWR	7/26/2017
PTW-8	46	31-46	NM	N/A	Saprolite	7/26/2017

Notes:

ft-bgs: feet below ground surface

ft-amsl: feet above mean sea level

PWR: partially weathered rock

N/A: Information currently not available

NM: Not Measured

* Depth to bottom of sand pack. Well clusters were installed in single boring.

** The original PZ-2 installation date is unknown. The well was replaced in 1/99 due to destruction by a run-away trailer from Roberson Mill Road.

*** The original RW-1 was installed in 6/21/89. The well was replaced in 1/99 due to collapse of the well.

Table 6
In-Situ Bioremediation Injection Summary
Rheem Manufacturing Company
Milledgeville, Georgia

Well Cluster	Treatment Zone	Well ID	Screened Interval (ft-bgs)	Geology	Total Volume Injected to Date (gal)	Target Injection Volume (gal)	Injection Volume Remaining (gal)	TSI DC Added to Date (L)	Target TSI DC Volume (L)	Flush Volume Added to Date (gal)	Target Flush Volume (gal)	Flush Volume Remaining (gal)	Avg. Pressure (psi)	Injection Duration (hrs)	Avg. Injection Rate (gal/min)
IW-1 (Nested Well)	Plume Zone	IW-1A	73-88	Bedrock	93	442	349	1.35	1.35	140.0	221	81	53	6.05	0.26
		IW-1B	53-68	PWR	634	3,607	2,973	1.35	1.35	317.0	1,804	1,487	51	3.98	2.7
		IW-1C	38-48	Saprolite	432	0	0	0.9	0.9	211	0	0	20	4.50	1.6
IW-2 (Nested Well)	Plume Zone	IW-2A	91-106	Bedrock	9	442	433	0.0	1.35	21	221	200	58	1.00	0.15
		IW-2B	71-86	PWR	601	3,607	3,006	1.35	1.35	620	1,804	1,184	36	12.32	0.8
		IW-2C	51-66	PWR	634	3,607	2,973	1.35	1.35	47	1,804	1,757	25	5.08	2.1
		IW-2D	31-46	Saprolite	634	0	0	1.35	1.35	149	0	0	24	3.00	3.5
IW-3 (Nested Well)	Plume Zone	IW-3A	100-115	Bedrock	0	0	0	0	1.35	0	0	0	57	1.88	0.0
		IW-3B	79-94	Bedrock	289	0	0	1.35	1.35	77	0	0	60	13.32	0.4
		IW-3C	59-74	PWR	634	3,607	2,973	1.35	1.35	317.0	1,804	1,487	44	4.98	2.1
		IW-3D	44-54	PWR	421	2,704	2,283	0.9	0.9	211	1,352	1,141	38	2.47	2.8
		IW-3E	29-39	Saprolite	421	0	0	0.9	0.9	211	0	0	25	2.13	3.3
IW-4 (Nested Well)	Release Area Zone	IW-4A	100-115	Bedrock	162	0	-162	4	3.4		0	0	52	12.62	0.2
		IW-4B	80-95	Bedrock	155	0	-155	1.4	1.35		0	0	58	10.47	0.2
		IW-4C	60-75	PWR	1,202	3,613	2,411	3.6	1.35	0.0	1,807	1,807	52	11.38	1.8
		IW-4D	40-55	Saprolite	1,270	841	0	3.6	1.35	0.0	421	421	50	5.22	4.1
		IW-4E	20-35	Saprolite	404	841	0	1.3	1.35	0.0	421	421	20	1.37	4.9
IW-5 (Nested Well)	Release Area Zone	IW-5A	103-118	Bedrock		0	0		3.4		0	0			
		IW-5B	83-98	Bedrock		0	0		1.35		0	0			
		IW-5C	63-78	PWR		3,613	3,613		1.35		1,807	1,807			
		IW-5D	43-58	Saprolite		841	841		1.35		421	421			
		IW-5E	23-38	Saprolite		841	841		1.35		421	421			
IW-6 (Single, 2" Well)	Plume Zone	IW-6A	55-70	PWR	915	846	0	1.8	1.8	451	423	0	50	3.15	4.8
		IW-6B	30-45	Saprolite	923	842	0	1.8	1.8	451	421	0	26	2.87	5.4
IW-7 (Single, 2" Well)	Plume Zone	IW-7	50-80	Saprolite	5,421	5,421	0	2.7	2.7	2,901	2,711	0	38	22.73	4.0
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IW-8 (Single, 2" Well)	Plume Zone	IW-8A	84-104	Saprolite/PWR	5,512	5,510	0	2.25	2.25	2,758	2,755	0	50	41.95	2.2
		IW-8B	29-74	Saprolite	2,113	2,113	0	4.55	4.55	1,064	1,057	0	17	22.58	1.6
IW-9 (Single, 2" Well)	Plume Zone	IW-9A	85-120	PWR/Bedrock	8,816	8,816	0	3.6	3.6	683	4,408	3,725	51	40.9	3.6
		IW-9B	50-75	Saprolite	1,316	1,267	0	2.70	2.7	1,066	634	0	24	9.1	2.4
IW-10 (Single, 2" Well)	Plume Zone	IW-10A	85-115	Saprolite/PWR		1,480	1,480		3.15		740	740			
		IW-10B	45-75	Saprolite		7,714	7,714		3.15		3,857	3,857			

Table 6
In-Situ Bioremediation Injection Summary
Rheem Manufacturing Company
Milledgeville, Georgia

Well Cluster	Treatment Zone	Well ID	Screened Interval (ft-bgs)	Geology	Total Volume Injected to Date (gal)	Target Injection Volume (gal)	Injection Volume Remaining (gal)	TSI DC Added to Date (L)	Target TSI DC Volume (L)	Flush Volume Added to Date (gal)	Target Flush Volume (gal)	Flush Volume Remaining (gal)	Avg. Pressure (psi)	Injection Duration (hrs)	Avg. Injection Rate (gal/min)
IW-11 (Single, 2" Well)	Plume Zone	IW-11A	90-125	PWR		8,816	8,816		3.6		4,408	4,408			
		IW-11B	50-80	PWR		6,321	6,321		3.15		3,161	3,161			
IW-12 (Single, 2" Well)	Plume Zone	IW-12A	90-120	PWR	8,227	7,714	0	3.15	3.15	550	3,857	3,307	53	48.0	2.9
		IW-12B	50-80	Saprolite	6,333	6,321	0	3.15	3.15	594	3,161	2,567	29	37.3	2.8
IW-13 (Single, 2" Well)	Plume Zone	IW-13A	78-98	Saprolite/PWR	4,517	4,517	0	2.25	2.25	2,263	2,259	0	60	23.00	3.3
		IW-13B	48-68	Saprolite	1,054	1,054	0	2.25	2.25	527	527	0	10	17.40	1.0
IW-14 (Single, 2" Well)	Plume Zone	IW-14A	80-105	PWR	467	4,408	3,941	1.8	1.8	48	2,204	2,156	50	33.88	0.2
		IW-14B	50-70	Saprolite/PWR	1,057	1,054	0	2.25	2.25	527	527	0		11.08	1.6
IW-15 (Single, 2" Well)	Plume Zone	IW-15A	69-99	Saprolite/Bedrock	4,033	6,321	2,288	3.15	3.15	983	3,161	2,178	50	88.63	0.8
		IW-15B	49-59	Saprolite	634	634	0	1.35	1.35	317	317	0	30	2.95	3.6
IW-16 (Single, 2" Well)	Plume Zone	IW-16A	93-108	Bedrock	392	4,408	4,016	1.8	1.8	241	2,204	1,963	62	42.48	0.2
		IW-16B	53-83	Saprolite	1,196	6,321	5,125	3.15	3.15	108	3,161	3,053	20	11.12	1.8
IW-17 (Single, 2" Well)	Plume Zone	IW-17	50-90	PWR	3,440	8,129	4,689	4.1	4.1	593	4,065	3,472	28	30.2	1.9
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IW-18 (Single, 2" Well)	Plume Zone	IW-18	48-83	PWR	7,034	6,321	0	3.15	3.15	2710	3,161	451	39	70.87	1.7
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IW-19 (Single, 2" Well)	Plume Zone	IW-19	50-80	Saprolite/PWR	3,311	5,421	2,110	2.7	2.7	952	2,711	1,759	23	36.4	1.5
			--	--	--	--	--	--	--	--	--	--	--	--	--
IW-20 (Single, 2" Well)	Plume Zone	IW-20	50-85	Saprolite/PWR	430	6,321	5,891	3.15	3.15	101	3,161	3,060	7.3	3.15	2.3
			--	--	--	--	--	--	--	--	--	--	--	--	--
IW-21 (Single, 2" Well)	Plume Zone	IW-21	50-80	Saprolite	5,427	5,421	0	2.7	2.7	849	2,711	1,862	43	7.48	12.1
			--	--	--	--	--	--	--	--	--	--	--	--	--
IW-22 (Single, 2" Well)	Plume Zone	IW-22A	75-120	Saprolite/PWR		11,020	11,020		4.55		5,510	5,510			
		IW-22B	50-65	Saprolite/PWR		846	846		1.8		423	423			
IW-23 (Single, 2" Well)	Plume Zone	IW-23A	75-105	PWR	7,734	7,714	0	3.15	3.15	223	3,857	3,634	32	33.8	3.8
		IW-23B	50-65	Saprolite/PWR	846	846	0	1.80	1.8	423.00	423	0	22	6.5	2.2
IW-24 (Single, 2" Well)	Plume Zone	IW-24	50-80	PWR	5,510	5,421	0	2.7	2.7	2753	2,711	0	51	15.57	5.9
			--	--	--	--	--	--	--	--	--	--	--	--	--
IW-25 (Single, 2" Well)	Plume Zone	IW-25	50-80	Saprolite/PWR	5,240	5,421	181	2.7	2.7	2711	2,711	0	18	72.53	1.2
			--	--	--	--	--	--	--	--	--	--	--	--	--

Table 6
In-Situ Bioremediation Injection Summary
Rheem Manufacturing Company
Milledgeville, Georgia

Well Cluster	Treatment Zone	Well ID	Screened Interval (ft-bgs)	Geology	Total Volume Injected to Date (gal)	Target Injection Volume (gal)	Injection Volume Remaining (gal)	TSI DC Added to Date (L)	Target TSI DC Volume (L)	Flush Volume Added to Date (gal)	Target Flush Volume (gal)	Flush Volume Remaining (gal)	Avg. Pressure (psi)	Injection Duration (hrs)	Avg. Injection Rate (gal/min)
IW-26 (Single, 2" Well)	Plume Zone	IW-26	47-82	PWR	247	6,321	6,074	3.15	3.15	37	3,161	3,124	18	3.15	1.3
			--	--	--	--	--	--	--	--	--	--	--	--	--
IW-27 (Single, 2" Well)	Plume Zone	IW-27	42-77	Saprolite	7,845	6,321	0	3.15	3.15	2482	3,161	679	21	79.9	1.6
			--	--	--	--	--	--	--	--	--	--	--	--	--
IW-28 (Single, 2" Well)	Plume Zone	IW-28	40-80	Saprolite/Bedrock		7,225	7,225		3.6		3,613	3,613			
			--	--	--	--	--	--	--	--	--	--	--	--	--
IW-29 (Single, 2" Well)	Plume Zone	IW-29A	70-90	PWR	4,327	4,517	190	2.25	2.25	155	2,259	2,104	50	28.9	2.5
		IW-29B	40-60	Saprolite	1,061	1,054	0	2.25	2.25	527	527	0	21	7.6	2.3
IW-30 (Single, 2" Well)	Plume Zone	IW-30A	65-90	PWR		5,421	5,421		2.7		2,711	2,711			
		IW-30B	40-55	Saprolite		846	846		1.8		423	423			
IW-31 (Single, 2" Well)	Plume Zone	IW-31A	75-100	PWR	6,619	6,612	0	2.7	2.7	3306	3,306	0	55	60.67	1.8
		IW-31B	40-65	Saprolite	1,267	1,267	0	2.7	2.7	639	634	0	24	16.8	1.3
IW-32 (Single, 2" Well)	Plume Zone	IW-32A	70-90	Saprolite	3,882	4,517	635	2.25	2.25	549	2,258	1,709	50	14.12	4.6
		IW-32B	40-60	Saprolite	1,175	1,054	0	2.25	2.25	211	527	316	23	12.22	1.6
IW-33 (Single, 2" Well)	Plume Zone	IW-33A	50-80	Saprolite/PWR	4,856	7,225	2,369	3.15	3.15	93	3,613	3,520	45	28.9	2.8
		IW-33B	25-40	Saprolite	843	842	0	1.80	1.8	523	421	0	18	5.1	2.8
IW-34 (Single, 2" Well)	Plume Zone	IW-34	40-70	Saprolite/PWR	1,270	1,267	0	2.7	2.7	110	634	524	22	4.08	5.2
			--	--	--	--	--	--	--	--	--	--	--	--	--
IW-35 (Single, 2" Well)	Plume Zone	IW-35A	53-73	Saprolite	1,435	1,054	0	2.25	2.25	530	527	0	52	13.57	1.8
		IW-35B	23-43	Saprolite	1,624	1,050	0	2.25	2.25	525	525	0	21	12.38	2.2
IW-36 (Single, 2" Well)	Plume Zone	IW-36	36-71	Saprolite		1,480	1,480		3.15		740	740			
			--	--	--	--	--	--	--	--	--	--	--	--	--
IW-37 (Single, 2" Well)	Plume Zone	IW-37A	65-90	Saprolite/PWR	1,212	5,421	4,209	2.7	2.7	760	2,711	1,951	50	41.20	0.5
		IW-37B	30-55	Saprolite	1,253	1,267	0	2.70	2.7	244	634	635	50	19.23	1.1
IW-38 (Single, 2" Well)	Plume Zone	IW-38A	70-100	PWR	7,714	7,714	0	3.15	3.15	2,373	3,857	0	52	24.90	5.2
		IW-38B	25-60	Saprolite	1,732	1,688	0	3.60	3.6	863	844	0	28	18.62	1.6
IW-39 (Single, 2" Well)	Release Area Zone	IW-39A	70-100	PWR	8,005	7,734	0	7.9	7.9	3870	3,867	0	53	53.95	2.5
		IW-39B	25-60	Saprolite	1,961	1,688	0	3.60	3.6	844	844	0	15	18.65	1.8
IW-40 (Single, 2" Well)	Release Area Zone	IW-40A	75-90	PWR/Bedrock	38	3,616	3,578	1.8	1.8	5	1,808	1,803	52	9.42	0.1
		IW-40B	30-65	Saprolite/PWR	1,688	1,688	0	3.60	3.6	864	844	0	24	6.47	4.4

Table 6
In-Situ Bioremediation Injection Summary
Rheem Manufacturing Company
Milledgeville, Georgia

Well Cluster	Treatment Zone	Well ID	Screened Interval (ft-bgs)	Geology	Total Volume Injected to Date (gal)	Target Injection Volume (gal)	Injection Volume Remaining (gal)	TSI DC Added to Date (L)	Target TSI DC Volume (L)	Flush Volume Added to Date (gal)	Target Flush Volume (gal)	Flush Volume Remaining (gal)	Avg. Pressure (psi)	Injection Duration (hrs)	Avg. Injection Rate (gal/min)
IW-41 (Single, 2" Well)	Release Area	IW-41A	70-90	Saprolite/PWR	4,518	4,518	0	2.25	2.25	2259	2,259	0	52	48.77	1.5
	Zone	IW-41B	30-60	Saprolite	1,480	1,480	0	3.15	3.15	748	740	0	30	5.32	4.6
IW-42 (Single, 2" Well)	Release Area	IW-42A	50-70	Saprolite/PWR	749	1,054	305	2.25	2.25	133	527	394	30	5.7	2.2
	Zone	IW-42B	25-40	Saprolite	482	842	360	1.80	1.8	129	421	292	24	5.7	1.4
IW-43 (Single, 2" Well)	Release Area	IW-43	25-60	Saprolite/PWR	1,763	1,688	0	3.6	3.6	845	844	0	22	19.75	1.5
	Zone		--	--	--	--	--	--	--	--	--	--	--	--	--
IW-44 (Single, 2" Well)	Release Area	IW-44A	55-80	PWR		5,422	5,422		2.7		2,711	2,711			
	Zone	IW-44B	25-45	Saprolite		1,050	1,050		2.25		525	525			
IW-45 (Single, 2" Well)	Release Area	IW-45A	52-82	Saprolite/PWR	6,678	6,326	0	3.15	3.15	3163	3,163	0	51	33.20	3.4
	Zone	IW-45B	27-42	Saprolite	1,093	842	0	1.8	1.8	434.00	421	0	20	5.62	3.2
IW-46 (Single, 2" Well)	Release Area	IW-46A	75-105	PWR	9,947	9,947	0	7.9	7.9	4974	4,974	0	48	45.10	3.7
	Zone	IW-46B	25-65	Saprolite	1,908	1,901	0	4.1	4.1	951	951	0	21	6.78	4.7
IW-47 (Single, 2" Well)	Release Area	IW-47A	75-115	Saprolite/PWR	32,046	32,044	0	10.2	10.2	16,087	16,022	0	50	94.52	5.7
	Zone	IW-47B	25-65	Saprolite	1,937	1,901	0	4.1	4.1	951	951	0	24	6.75	4.8
IW-48 (Single, 2" Well)	Release Area	IW-48A	55-90	Saprolite		7,230	7,230		3.6		3,615	3,615			
	Zone	IW-48B	25-45	Saprolite		1,050	1,050		2.25		525	525			
IW-49 (Single, 2" Well)	Release Area	IW-49A	65-100	Saprolite		7,230	7,230		3.6		3,615	3,615			
	Zone	IW-49B	25-55	Saprolite		1,480	1,480		3.15		740	740			
IW-50 (Single, 2" Well)	Release Area	IW-50A	54-89	Saprolite		7,230	7,230		3.6		3,615	3,615			
	Zone	IW-50B	24-44	Saprolite		1,050	1,050		2.25		525	525			
IW-51 (Single, 2" Well)	Release Area	IW-51A	65-90	PWR		5,422	5,422		2.7		2,711	2,711			
	Zone	IW-51B	25-55	Saprolite		1,480	1,480		3.15		740	740			
IW-52 (Single, 2" Well)	Release Area	IW-52A	65-90	PWR		5,422	5,422		2.7		2,711	2,711			
	Zone	IW-52B	25-55	Saprolite		1,480	1,480		3.15		740	740			
IW-53 (Single, 2" Well)	Release Area	IW-53A	50-70	Saprolite/PWR		1,054	1,054		2.25		527	527			
	Zone	IW-53B	25-40	Saprolite		842	842		1.8		421	421			
IW-54 (Single, 2" Well)	Release Area	IW-54A	65-100	PWR		7,230	7,230		3.6		3,615	3,615			
	Zone	IW-54B	25-55	Saprolite		1,480	1,480		3.15		740	740			
IW-55 (Single, 2" Well)	Release Area	IW-55A	63-88	PWR		5,422	5,422		2.7		2,711	2,711			
	Zone	IW-55B	23-53	Saprolite		1,480	1,480		3.15		740	740			

Table 6
In-Situ Bioremediation Injection Summary
Rheem Manufacturing Company
Milledgeville, Georgia

Well Cluster	Treatment Zone	Well ID	Screened Interval (ft-bgs)	Geology	Total Volume Injected to Date (gal)	Target Injection Volume (gal)	Injection Volume Remaining (gal)	TSI DC Added to Date (L)	Target TSI DC Volume (L)	Flush Volume Added to Date (gal)	Target Flush Volume (gal)	Flush Volume Remaining (gal)	Avg. Pressure (psi)	Injection Duration (hrs)	Avg. Injection Rate (gal/min)
IW-56 (Single, 2" Well)	Release Area Zone	IW-56A	56-86	Saprolite		4,518	4,518		2.25		2,259	2,259			
		IW-56B	26-46	Saprolite		1,050	1,050		2.25		525	525			
IW-57 (Single, 2" Well)	Release Area Zone	IW-57A	60-90	Saprolite/PWR		6,326	6,326		3.15		3,163	3,163			
		IW-57B	25-50	Saprolite		1,267	1,267		2.7		634	634			
IW-58 (Single, 2" Well)	Release Area Zone	IW-58A	60-90	PWR		6,326	6,326		3.15		3,163	3,163			
		IW-58B	25-50	Saprolite		1,267	1,267		2.7		634	634			
IW-59 (Single, 2" Well)	Release Area Zone	IW-59A	60-90	PWR		6,326	6,326		3.15		3,163	3,163			
		IW-59B	25-50	Saprolite		1,267	1,267		2.7		634	634			
IW-60 (Single, 2" Well)	Release Area Zone	IW-60A	60-95	PWR		7,230	7,230		3.6		3,615	3,615			
		IW-60B	20-50	Saprolite		1,480	1,480		3.15		740	740			
IW-61 (Single, 2" Well)	Release Area Zone	IW-61A	67-97	Saprolite/PWR	4,839	6,326	1,487	3.15	3.15	2420	3,163	743	57	36.62	2.2
		IW-61B	27-57	Saprolite	1,498	1,480	0	3.15	3.15	106	740	634	13	9.28	2.7
IW-62 (Single, 2" Well)	Release Area Zone	IW-62A	65-95	PWR	6,364	6,326	0	3.15	3.15	3510	3,163	0	47	16.00	6.6
		IW-62B	25-55	Saprolite	1,480	1,480	0	3.15	3.15	743	740	0	46	2.78	8.9
IW-63 (Single, 2" Well)	Release Area Zone	IW-63A	60-80	PWR	1,649	1,267	0	2.7	2.7	635	634	0	61	5.4	5.1
		IW-63B	25-50	Saprolite	4,649	4,518	0	2.25	2.25	2,259.00	2,259	0	18	19.2	4.0

Table 7
Soil Sampling Results
Rheem Manufacturing Company
Milledgeville, Georgia

Location	Date Sampled	Sample Depth	1,1,1-Trichloroethane	1,1-Dichloroethene	2-Butanone (MEK)	Acetone	Carbon tetrachloride	Chloroform	cis-1,2-Dichloroethene	Dichlorobromomethane	Dichloromethane (Methylene chloride)	Ethyl benzene	m&p-Xylene	o-Xylene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Fraction Organic Carbon
Non-Residential RRS			96	3.8	200	400	0.5	8	7	8	2.3	70	20	20	0.89	100	13	0.5	N/A
Ind. Worker Type 4			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	21	--
Const. Worker Type 4			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	38	--
HA-1	11/04/08	0.5																<0	
HA-1	11/04/08	4																0.0161	
HA-2	11/04/08	0.5																<0.00426	
HA-2	11/04/08	4																<0.00587	
HA-3	11/04/08	0.5																<0.00359	
HA-3	11/04/08	4																<0.00336	
SB-1	09/15/08	5																<0	
SB-1	09/15/08	9																0.00977	
SB-1	09/15/08	12																0.839	
SB-1	09/15/08	20																8.64	
SB-2	09/15/08	4																0.0633	
SB-2	09/15/08	8																0.0658	
SB-2	09/15/08	12																0.0837	
SB-2	09/15/08	18																0.00858	
SB-3	09/15/08	4																0.0197	
SB-3	09/15/08	8																0.016	
SB-3	09/15/08	14																0.325	
SB-3	09/15/08	18																0.0703	
SB-4	09/15/08	4																0.023	
SB-4	09/15/08	10																0.00936	
SB-4	09/15/08	14																0.00953	
SB-4	09/15/08	18																0.0123	
SB-5	09/15/08	4																0.0107	
SB-5	09/15/08	10																<0.00441	
SB-5	09/15/08	14																<0.00471	
SB-5	09/15/08	20																0.0175	

Table 7
Soil Sampling Results
Rheem Manufacturing Company
Milledgeville, Georgia

Location	Date Sampled	Sample Depth	1,1,1-Trichloroethane	1,1-Dichloroethene	2-Butanone (MEK)	Acetone	Carbon tetrachloride	Chloroform	cis-1,2-Dichloroethene	Dichlorobromomethane	Dichloromethane (Methylene chloride)	Ethyl benzene	m&p-Xylene	o-Xylene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Fraction Organic Carbon
Non-Residential RRS			96	3.8	200	400	0.5	8	7	8	2.3	70	20	20	0.89	100	13	0.5	N/A
Ind. Worker Type 4			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	21	--
Const. Worker Type 4			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	38	--
SB-6	09/15/08	4																0.821	
SB-6	09/15/08	8																0.326	
SB-6	09/15/08	12																0.167	
SB-6	09/15/08	20																6.04	
SB-7	09/16/08	4																19.3	
SB-7	09/16/08	10		<5.4					<5.4								<5.4	19	
SB-7	09/16/08	14																14.7	
SB-7	09/16/08	20																104	
SB-7	11/30/09	14																130	
SB-7	11/30/09	20																260	
SB-8	09/16/08	4																5.52	
SB-8	09/16/08	8																3.84	
SB-8	09/16/08	14																1.65	
SB-8	09/16/08	20																25.1	
SB-9	09/16/08	4		<0.0029					<0.0029								<0.0029	0.00417	
SB-9	09/16/08	10																<0	
SB-9	09/16/08	12																<0.00351	
SB-9	09/16/08	18																<0.00426	
SB-10	09/16/08	4																<0.00335	
SB-10	09/16/08	6																<0.00325	
SB-10	09/16/08	12																<0.00422	
SB-10	09/16/08	18																<0.00407	
DUP-1	09/16/08	18																<0.00389	

Table 7
Soil Sampling Results
Rheem Manufacturing Company
Milledgeville, Georgia

Location	Date Sampled	Sample Depth	1,1,1-Trichloroethane	1,1-Dichloroethene	2-Butanone (MEK)	Acetone	Carbon tetrachloride	Chloroform	cis-1,2-Dichloroethene	Dichlorobromomethane	Dichloromethane (Methylene chloride)	Ethyl benzene	m&p-Xylene	o-Xylene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Fraction Organic Carbon
Non-Residential RRS			96	3.8	200	400	0.5	8	7	8	2.3	70	20	20	0.89	100	13	0.5	N/A
Ind. Worker Type 4			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	21	--
Const. Worker Type 4			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	38	--
SB-11	09/16/08	4																0.011	
SB-11	09/16/08	8																0.053	
SB-11	09/16/08	14		<0.0042					0.015								<0.0042	0.0719	
SB-11	09/16/08	20																0.0171	
SB-12	09/16/08	4																<0.0039	
SB-12	09/16/08	6																<0.0046	
SB-12	09/16/08	14																<0.00426	
SB-12	09/16/08	18																<0.00811	
SB-13	09/16/08	4		<0.0041					<0.0041								<0.0041	<0	
SB-13	09/16/08	8																<0.00363	
SB-13	09/16/08	12																<0.00399	
SB-13	09/16/08	20																<0.0039	
DUP-2	09/16/08	20																<0.00438	
SB-14	09/16/08	4																0.007	
SB-14	09/16/08	10																0.00664	
SB-14	09/16/08	14																2.5	
SB-14	09/16/08	20		<0.0043					<0.0043								<0.0043	5.63	
SB-15	09/16/08	4																3.59	
SB-15	09/16/08	8		<0.27					<0.27								<0.27	6.56	
SB-15	09/16/08	12																37	
SB-15	09/16/08	20		<1.9					<1.9								<1.9	29.7	
SB-16	09/16/08	4																<0.0032	
SB-16	09/16/08	8																<0.00443	
SB-16	09/16/08	12																0.00593	
SB-16	09/16/08	20																0.0302	

Table 7
Soil Sampling Results
Rheem Manufacturing Company
Milledgeville, Georgia

Location	Date Sampled	Sample Depth	1,1,1-Trichloroethane	1,1-Dichloroethene	2-Butanone (MEK)	Acetone	Carbon tetrachloride	Chloroform	cis-1,2-Dichloroethene	Dichlorobromomethane	Dichloromethane (Methylene chloride)	Ethyl benzene	m&p-Xylene	o-Xylene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Fraction Organic Carbon
Non-Residential RRS			96	3.8	200	400	0.5	8	7	8	2.3	70	20	20	0.89	100	13	0.5	N/A
Ind. Worker Type 4			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	21	--
Const. Worker Type 4			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	38	--
SB-17	09/16/08	4																0.0167	
SB-17	09/16/08	8																<0.0041	
SB-17	09/16/08	12																<0.00403	
SB-17	09/16/08	20																<0.00405	
SB-18	09/17/08	4																<0	
SB-18	09/17/08	6																0.816	
SB-19	09/17/08	4		<0.0032					0.0041								<0.0032	0.112	
SB-19	09/17/08	10																0.163	
SB-19	09/17/08	14																0.694	
SB-19	09/17/08	16																6.06	
DUP-3	09/16/08	16																0.41	
SB-20	09/17/08	4		<0.17					<0.17								<0.17	0.364	
SB-20	09/17/08	10		<250					<250								<250	2540	
SB-20	09/17/08	14																36.6	
SB-20	09/17/08	20																27.9	
SB-21	09/17/08	4																0.397	
SB-21	09/17/08	10																19.4	
SB-21	09/17/08	14		<150					<150								<150	4320	
SB-21	09/17/08	20		<21					<21								<21	198	
SB-22	09/17/08	4																7.28	
SB-22	09/17/08	10		<320					<320								<320	6960	
SB-22	09/17/08	14		<140					<140								<140	7600	
SB-22	09/17/08	18		<230					<230								<230	10500	

Table 7
Soil Sampling Results
Rheem Manufacturing Company
Milledgeville, Georgia

Location	Date Sampled	Sample Depth	1,1,1-Trichloroethane	1,1-Dichloroethene	2-Butanone (MEK)	Acetone	Carbon tetrachloride	Chloroform	cis-1,2-Dichloroethene	Dichlorobromomethane	Dichloromethane (Methylene chloride)	Ethyl benzene	m&p-Xylene	o-Xylene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Fraction Organic Carbon
Non-Residential RRS			96	3.8	200	400	0.5	8	7	8	2.3	70	20	20	0.89	100	13	0.5	N/A
Ind. Worker Type 4			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	21	--
Const. Worker Type 4			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	38	--
SB-23	09/17/08	4																0.264	
SB-23	09/17/08	8																<0.00322	
SB-23	09/17/08	13		<0.16					<0.16									<0.16	1.17
DUP-4	09/17/08	13																	0.187
SB-24	09/17/08	4																	<0.00295
SB-24	09/17/08	8		<0.0025					<0.0025									<0.0025	0.0352
SB-24	09/17/08	14																	0.253
SB-24	09/17/08	20																	0.0818
SB-25	09/17/08	4																	<0
SB-25	09/17/08	8																	0.654
SB-25	09/17/08	14																	25.2
SB-25	09/17/08	20		<18					<18								<18		108
SB-26	09/17/08	4		<0.16					<0.16									<0.16	2.25
SB-26	09/17/08	8																	13.3
DUP-5	09/17/08	8																	3.01
SB-26	09/17/08	14		<170					<170									<170	18200
SB-26	09/17/08	20		<180					<180									<180	11400
SB-27	09/17/08	4																	0.682
SB-27	09/17/08	8																	9.6
SB-27	09/17/08	14																	8.82
SB-27	09/17/08	20																	20.2
SB-28	09/17/08	8																	0.0113
SB-28	09/17/08	14																	0.00874
SB-28	09/17/08	20																	0.0592
DUP-6	09/17/08	20																	0.0288

Table 7
Soil Sampling Results
Rheem Manufacturing Company
Milledgeville, Georgia

Location	Date Sampled	Sample Depth	1,1,1-Trichloroethane	1,1-Dichloroethene	2-Butanone (MEK)	Acetone	Carbon tetrachloride	Chloroform	cis-1,2-Dichloroethene	Dichlorobromomethane	Dichloromethane (Methylene chloride)	Ethyl benzene	m&p-Xylene	o-Xylene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Fraction Organic Carbon
Non-Residential RRS			96	3.8	200	400	0.5	8	7	8	2.3	70	20	20	0.89	100	13	0.5	N/A
Ind. Worker Type 4			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	21	--
Const. Worker Type 4			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	38	--
SB-29	09/17/08	4																0.0288	
SB-29	09/17/08	8																0.243	
SB-29	09/17/08	14																1.98	
SB-29	09/17/08	20																2.81	
SB-30	11/30/09	4																2.6	
SB-30	11/30/09	10																55	
SB-30	11/30/09	14																88	
SB-30	11/30/09	18																100	
SB-31	11/30/09	4																24	
SB-31	11/30/09	8																5200	
SB-31	11/30/09	14																350	
SB-31	11/30/09	18																140	
SB-32	11/30/09	4																11	
SB-32	11/30/09	10																50	
SB-32	11/30/09	14																60	
SB-32	11/30/09	20																50	
SB-33	11/30/09	4																29	
SB-33	11/30/09	10																21	
SB-33	11/30/09	14																52	
DUP	11/30/09	14																54	
SB-33	11/30/09	18																35	
SB-34	12/01/09	4																20	
SB-34	12/01/09	10																41	
SB-34	12/01/09	14																62	
SB-34	12/01/09	20																62	

Table 7
Soil Sampling Results
Rheem Manufacturing Company
Milledgeville, Georgia

Location	Date Sampled	Sample Depth	1,1,1-Trichloroethane	1,1-Dichloroethene	2-Butanone (MEK)	Acetone	Carbon tetrachloride	Chloroform	cis-1,2-Dichloroethene	Dichlorobromomethane	Dichloromethane (Methylene chloride)	Ethyl benzene	m&p-Xylene	o-Xylene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Fraction Organic Carbon
Non-Residential RRS			96	3.8	200	400	0.5	8	7	8	2.3	70	20	20	0.89	100	13	0.5	N/A
Ind. Worker Type 4			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	21	--
Const. Worker Type 4			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	38	--
SB-35	12/01/09	14																820	4.1
SB-35	12/01/09	18																150	4.4
SB-36	12/01/09	12																74	4.4
SB-36	12/01/09	20																720	4
SB-37	12/01/09	10																40	4.4
SB-37	12/01/09	16																120	3.7
SB-38	12/01/09	8																16	4
SB-38	12/01/09	18																9700	4.6
SB-39	12/01/09	10																17000	3
SB-39	12/01/09	20																11	2.7
SB-40	12/01/09	6																12	2.9
SB-40	12/01/09	10																4.9	3.6
SB-41	12/01/09	10																40	3.5
SB-41	12/01/09	18																8400	2.6
SB-42	12/01/09	8																38	4.2
SB-42	12/01/09	24																380	3.9
SB-43	12/01/09	16																5400	3.8
SB-43	12/01/09	24																160	1.8
SB-44	12/02/09	10																11000	2.4
SB-44	12/02/09	20																340	2.6
SB-45	12/02/09	8																15000	5.2
SB-45	12/02/09	20																7600	4.6
SB-46	12/02/09	18																110	2.2
SB-46	12/02/09	20																120	3.9

Table 7
Soil Sampling Results
Rheem Manufacturing Company
Milledgeville, Georgia

Location	Date Sampled	Sample Depth	1,1,1-Trichloroethane	1,1-Dichloroethene	2-Butanone (MEK)	Acetone	Carbon tetrachloride	Chloroform	cis-1,2-Dichloroethene	Dichlorobromomethane	Dichloromethane (Methylene chloride)	Ethyl benzene	m&p-Xylene	o-Xylene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Fraction Organic Carbon
Non-Residential RRS			96	3.8	200	400	0.5	8	7	8	2.3	70	20	20	0.89	100	13	0.5	N/A
Ind. Worker Type 4			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	21	--
Const. Worker Type 4			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	38	--
SB-47	12/02/09	8																32	1.9
SB-47	12/02/09	12																6000	4.6
SB-48	12/02/09	10																130	2.2
SB-48	12/02/09	22																78000	3.3
SB-49	12/02/09	16																17	4.8
SB-49	12/02/09	20																55	3.1
SB-50	12/03/09	4		<3.5					<3.5								<3.5	24	
DUP	12/03/09	4		<4.2					<4.2								<4.2	32	
SB-50	12/03/09	14		<150					<150								<150	1200	
SB-50	12/03/09	20		<0.0033					<0.0033								<0.0033	0.18	
SB-51	03/30/10	4	<0.0046	<0.0046	<0.046	<0.092	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0092	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046
SB-51	03/30/10	10	<0.0059	<0.0059	<0.059	<0.12	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.012	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059
SB-51	03/30/10	15	<0.0054	<0.0054	<0.054	<0.11	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.011	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054
SB-52	03/30/10	2	<0.0048	<0.0048	<0.048	<0.096	<0.0048	0.013	0.012	<0.0048	<0.0048	<0.0048	<0.0096	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	3.4
SB-52	03/30/10	8	<0.0039	0.0052	<0.039	<0.078	<0.0039	0.017	0.025	<0.0039	<0.0039	<0.0039	<0.0078	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	11
SB-52	03/30/10	14	<0.0059	0.018	<0.059	<0.12	<0.0059	0.026	0.098	<0.0059	0.014	<0.0059	<0.012	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	7.2
SB-52	03/30/10	20	0.011	0.027	<0.033	<0.066	<0.0033	0.013	0.13	<0.0033	0.064	<0.0033	<0.0066	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	38
SB-53	03/30/10	4	<0.0033	<0.0033	<0.033	0.13	<0.0033	0.0098	0.069	<0.0033	<0.0033	<0.0033	<0.0065	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	6
SB-53	03/30/10	8	<0.0032	0.0039	<0.032	<0.064	<0.0032	0.011	0.16	<0.0032	<0.0032	<0.0032	<0.0064	<0.0032	<0.0032	<0.0032	<0.0032	<0.0032	2.3
SB-53	03/30/10	12	<0.0041	<0.0041	<0.041	<0.082	<0.0041	<0.0041	0.044	<0.0041	<0.0041	<0.0041	<0.0082	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	1.8
SB-54	03/30/10	4	<0.0045	<0.0045	<0.045	0.44	<0.0045	0.035	0.14	<0.0045	<0.0045	<0.0045	<0.0089	<0.0045	0.0073	<0.0045	0.015	9.6	
SB-54	03/30/10	10	<0.0032	<0.0032	<0.032	<0.063	<0.0032	0.014	0.093	<0.0032	<0.0032	<0.0032	<0.0063	<0.0032	<0.0032	<0.0032	<0.0032	0.0061	0.51
SB-54	03/30/10	12	<0.0036	<0.0036	<0.036	<0.072	<0.0036	0.016	0.14	<0.0036	<0.0036	<0.0036	<0.0072	<0.0036	<0.0036	<0.0036	<0.0036	0.01	0.94
SB-54	03/30/10	20	<0.0038	<0.0038	<0.038	<0.075	<0.0038	<0.0038	0.016	<0.0038	<0.0038	<0.0038	<0.0075	<0.0038	<0.0038	<0.0038	<0.0038	0.11	

Table 7
Soil Sampling Results
Rheem Manufacturing Company
Milledgeville, Georgia

Location	Date Sampled	Sample Depth	1,1,1-Trichloroethane	1,1-Dichloroethene	2-Butanone (MEK)	Acetone	Carbon tetrachloride	Chloroform	cis-1,2-Dichloroethene	Dichlorobromomethane	Dichloromethane (Methylene chloride)	Ethyl benzene	m&p-Xylene	o-Xylene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Fraction Organic Carbon
Non-Residential RRS			96	3.8	200	400	0.5	8	7	8	2.3	70	20	20	0.89	100	13	0.5	N/A
Ind. Worker Type 4			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	21	--
Const. Worker Type 4			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	38	--
SB-55	03/30/10	2	<0.0058	<0.0058	<0.058	<0.12	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.012	<0.0058	<0.0058	<0.0058	<0.0058	0.14	
SB-55	03/30/10	8	<0.0034	<0.0034	<0.034	<0.067	<0.0034	<0.0034	<0.0034	<0.0034	<0.0034	<0.0034	<0.0067	<0.0034	<0.0034	<0.0034	<0.0034	<0.17	
SB-55	03/30/10	14	<0.004	<0.004	<0.04	<0.081	<0.004	<0.004	0.0043	<0.004	<0.004	<0.004	<0.0081	<0.004	<0.004	<0.004	<0.004	0.15	
SB-55	03/30/10	16	<0.0037	<0.0037	<0.037	<0.074	<0.0037	<0.0037	0.0041	<0.0037	<0.0037	<0.0037	<0.0074	<0.0037	<0.0037	<0.0037	<0.0037	0.56	
SB-56	03/30/10	2	<0.0036	<0.0036	<0.036	<0.072	<0.0036	0.0091	0.024	<0.0036	<0.0036	<0.0036	<0.0072	<0.0036	<0.0036	<0.0036	<0.0036	0.51	
SB-56	03/30/10	10	<0.0044	<0.0044	<0.044	<0.089	<0.0044	0.0045	0.02	<0.0044	<0.0044	<0.0044	<0.0089	<0.0044	<0.0044	<0.0044	<0.0044	0.083	
SB-56	03/30/10	14	<0.003	<0.003	<0.03	<0.059	<0.003	0.021	0.11	<0.003	<0.003	<0.003	<0.0059	<0.003	<0.003	<0.003	<0.003	0.36	
SB-56	03/30/10	18	<0.0033	<0.0033	<0.033	<0.067	<0.0033	0.011	0.059	<0.0033	<0.0033	<0.0033	<0.0067	<0.0033	<0.0033	<0.0033	<0.0033	0.93	
SB-57	03/30/10	4	<0.0036	<0.0036	<0.036	<0.073	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0073	<0.0036	<0.0036	<0.0036	<0.0036	0.061	
SB-57	03/30/10	8	<0.0044	<0.0044	<0.044	<0.088	<0.0044	<0.0044	0.0073	<0.0044	<0.0044	<0.0044	<0.0088	<0.0044	<0.0044	<0.0044	<0.0044	0.4	
SB-58	03/31/10	4	<0.0032	<0.0032	<0.032	<0.064	<0.0032	<0.0032	<0.0032	<0.0032	<0.0032	<0.0032	<0.0064	<0.0032	<0.0032	<0.0032	<0.0032	1.7	
SB-58	03/31/10	6	<0.0037	<0.0037	<0.037	<0.074	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0074	<0.0037	<0.0037	<0.0037	<0.0037	1.5	
SB-58	03/31/10	12	<0.0037	<0.0037	<0.037	<0.074	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0074	<0.0037	<0.0037	<0.0037	<0.0037	0.82	
SB-58	03/31/10	16	<0.0036	<0.0036	<0.036	<0.073	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0073	<0.0036	<0.0036	<0.0036	<0.0036	0.89	
SB-59	03/31/10	10	<0.0046	<0.0046	<0.046	<0.093	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0093	<0.0046	0.0097	<0.0046	<0.0046	8.9	
SB-59	03/31/10	16	<0.0038	<0.0038	<0.038	<0.075	<0.0038	0.0046	<0.0038	<0.0038	<0.0038	<0.0038	<0.0075	<0.0038	0.011	<0.0038	<0.0038	0.96	
SB-60	03/31/10	16	<0.24	<0.24	<2.4	<4.7	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.47	<0.24	<0.24	<0.24	<0.24	29	
SB-61	04/01/10	1	<0.0032	<0.0032	<0.032	<0.063	<0.0032	<0.0032	<0.0032	<0.0032	<0.0032	<0.0032	<0.0063	<0.0032	<0.0032	<0.0032	<0.0032	0.0098	
SB-61	03/30/10	2	<0.0046	<0.0046	<0.046	<0.091	<0.0046	<0.0046	0.0076	<0.0046	<0.0046	<0.0046	<0.0091	<0.0046	<0.0046	<0.0046	<0.0046	1.9	
SB-61	03/31/10	10	<0.2	<0.2	<2	<3.9	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.39	<0.2	<0.2	<0.2	<0.2	16	
SB-61	03/31/10	14	<0.004	<0.004	<0.04	0.13	0.015	0.022	0.44	0.018	<0.004	0.014	0.041	0.053	0.0075	0.0043	<0.004	26	
SB-61	03/31/10	16	<0.23	<0.23	<2.3	<4.6	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.46	<0.23	<0.23	<0.23	<0.23	23	

Table 7
Soil Sampling Results
Rheem Manufacturing Company
Milledgeville, Georgia

Location	Date Sampled	Sample Depth	1,1,1-Trichloroethane	1,1-Dichloroethene	2-Butanone (MEK)	Acetone	Carbon tetrachloride	Chloroform	cis-1,2-Dichloroethene	Dichlorobromomethane	Dichloromethane (Methylene chloride)	Ethyl benzene	m&p-Xylene	o-Xylene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Fraction Organic Carbon	
Non-Residential RRS			96	3.8	200	400	0.5	8	7	8	2.3	70	20	20	0.89	100	13	0.5	N/A	
Ind. Worker Type 4			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	21	--	
Const. Worker Type 4			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	38	--	
SB-62	04/01/10	1	<0.0033	<0.0033	<0.033	0.28	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	<0.0066	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	
SB-62	03/30/10	4	<0.0061	<0.0061	<0.061	<0.12	<0.0061	<0.0061	<0.0061	<0.0061	<0.0061	<0.0061	<0.012	<0.0061	<0.0061	<0.0061	<0.0061	<0.0061	0.015	
SB-62	03/31/10	8	<0.0054	<0.0054	<0.054	<0.11	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.011	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	
SB-62	03/31/10	12	<0.0037	<0.0037	<0.037	<0.074	<0.0037	<0.0037	0.031	<0.0037	<0.0037	<0.0037	<0.0074	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	0.024	
DUP-1	03/31/10	12	<0.0033	<0.0033	<0.033	<0.065	<0.0033	<0.0033	0.033	<0.0033	<0.0033	<0.0033	<0.0065	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	0.025	
SB-62	03/31/10	16	<0.0033	<0.0033	<0.033	<0.067	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	<0.0067	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	0.0036	
SB-63	03/31/10	4	<0.0035	<0.0035	<0.035	<0.069	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0069	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	0.011	
SB-63	03/31/10	10	<0.0044	<0.0044	<0.044	<0.087	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0087	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	0.1	
SB-63	03/31/10	14	<0.004	<0.004	<0.04	<0.08	<0.004	<0.004	0.017	<0.004	<0.004	<0.004	<0.008	<0.004	<0.004	<0.004	<0.004	<0.004	0.49	
SB-63	03/31/10	18	<0.0034	<0.0034	<0.034	<0.068	<0.0034	<0.0034	0.011	<0.0034	<0.0034	<0.0034	<0.0068	<0.0034	<0.0034	<0.0034	<0.0034	<0.0034	0.15	
SB-64	03/31/10	4	<0.0039	<0.0039	<0.039	<0.077	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.0077	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	
SB-64	03/31/10	8	<0.0045	<0.0045	<0.045	<0.089	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0089	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	
SB-64	03/31/10	14	<0.0037	<0.0037	<0.037	<0.074	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0074	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	
DUP-2	03/31/10	14	<0.0037	<0.0037	<0.037	<0.074	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0074	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	
SB-64	03/31/10	18	<0.0044	<0.0044	<0.044	<0.089	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0089	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	
SB-66	03/31/10	2	<0.005	<0.005	<0.05	<0.1	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
SB-66	03/31/10	6	<0.0047	<0.0047	<0.047	<0.094	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0094	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	
SB-66	03/31/10	12	<0.0041	<0.0041	<0.041	<0.081	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	<0.0081	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	
SB-67	04/01/10	1	<0.0043	<0.0043	<0.043	<0.085	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0085	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	
SB-67	03/31/10	4	<0.0041	<0.0041	<0.041	<0.082	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	<0.0082	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	
SB-67	03/31/10	6	<0.0047	<0.0047	<0.047	<0.093	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0093	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	
DUP-3	03/31/10	6	<0.004	<0.004	<0.04	<0.08	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.008	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	
SB-67	03/31/10	12	<0.0034	<0.0034	<0.034	<0.068	<0.0034	<0.0034	<0.0034	<0.0034	<0.0034	<0.0034	<0.0068	<0.0034	<0.0034	<0.0034	<0.0034	<0.0034	<0.0034	

Table 7
Soil Sampling Results
Rheem Manufacturing Company
Milledgeville, Georgia

Location	Date Sampled	Sample Depth	1,1,1-Trichloroethane	1,1-Dichloroethene	2-Butanone (MEK)	Acetone	Carbon tetrachloride	Chloroform	cis-1,2-Dichloroethene	Dichlorobromomethane	Dichloromethane (Methylene chloride)	Ethyl benzene	m&p-Xylene	o-Xylene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Fraction Organic Carbon	
Non-Residential RRS			96	3.8	200	400	0.5	8	7	8	2.3	70	20	20	0.89	100	13	0.5	N/A	
Ind. Worker Type 4			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	21	--	
Const. Worker Type 4			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	38	--
SB-68	04/01/10	1	<0.0028	<0.0028	<0.028	0.085	<0.0028	<0.0028	<0.0028	<0.0028	<0.0028	<0.0028	<0.0056	<0.0028	<0.0028	<0.0028	<0.0028	0.01		
SB-68	03/30/10	2	<0.0036	<0.0036	<0.036	<0.072	<0.0036	<0.0036	0.0048	<0.0036	<0.0036	<0.0036	<0.0072	<0.0036	<0.0036	<0.0036	<0.0036	1.3		
SB-68	03/31/10	10	<0.0045	<0.0045	<0.045	<0.09	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.009	<0.0045	<0.0045	<0.0045	<0.0045	0.051		
SB-68	03/31/10	14	<0.0041	<0.0041	<0.041	<0.082	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	<0.0082	<0.0041	<0.0041	<0.0041	<0.0041	0.31		
SB-68	03/31/10	18	<0.0038	<0.0038	<0.038	<0.077	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038	<0.0077	<0.0038	<0.0038	<0.0038	<0.0038	0.051		
SB-69	04/01/10	6	<0.0037	<0.0037	<0.037	<0.073	<0.0037	0.005	<0.0037	<0.0037	<0.0037	<0.0037	<0.0073	<0.0037	<0.0037	<0.0037	<0.0037	2.4		
SB-69	04/01/10	16	<0.18	<0.18	<1.8	<3.7	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.37	<0.18	<0.18	<0.18	<0.18	14		
SB-70	04/01/10	2	<0.0042	<0.0042	<0.042	<0.084	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0084	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042		
SB-70	04/01/10	8	<0.0036	<0.0036	<0.036	<0.073	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0073	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036		
SB-70	04/01/10	14	<0.0039	<0.0039	<0.039	<0.078	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.0078	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039		
SB-71	04/01/10	1	<0.0052	<0.0052	<0.052	0.18	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.01	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052		
SB-71	04/01/10	2	<0.0043	<0.0043	0.49	<0.086	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0086	<0.0043	<0.0043	<0.0043	<0.0043	0.0047		
SB-71	04/01/10	8	<0.21	<0.21	10	<4.2	<0.21	<0.21	<0.21	<0.21	<0.21	2.5	8.1	2.7	<0.21	0.33	<0.21	<0.21		
DUP-4	04/01/10	8	<0.16	<0.16	11	<3.2	<0.16	<0.16	<0.16	<0.16	<0.16	1.3	4.4	1.5	<0.16	<0.16	<0.16	<0.16		
SB-71	04/01/10	12	<0.0046	<0.0046	8.3	0.13	<0.0046	<0.0046	0.027	<0.0046	<0.0046	0.095	0.32	0.13	<0.0046	0.013	<0.0046	0.15		
SB-71	04/01/10	16	<0.004	<0.004	<0.04	<0.08	<0.004	<0.004	0.035	<0.004	<0.004	<0.004	<0.008	<0.004	<0.004	<0.004	<0.004	0.23		
SB-72	04/19/10	2	<0.0041	<0.0041	<0.041	<0.081	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	<0.0081	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041		
SB-72	04/19/10	10	<0.0038	<0.0038	<0.038	<0.075	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038	<0.0075	<0.0038	<0.0038	<0.0038	<0.0038	0.024		
SB-72	04/19/10	14	<0.0049	<0.0049	<0.049	<0.098	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0098	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049		
SB-72	04/19/10	18	<0.0036	<0.0036	<0.036	<0.072	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0072	<0.0036	<0.0036	<0.0036	<0.0036	0.0039		
SB-73	04/19/10	4	<0.0039	<0.0039	<0.039	<0.078	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.0078	<0.0039	<0.0039	<0.0039	<0.0039	0.028		
SB-73	04/19/10	6	<0.0036	<0.0036	<0.036	<0.071	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0071	<0.0036	<0.0036	<0.0036	<0.0036	0.02		
SB-73	04/19/10	10	<0.0043	<0.0043	<0.043	<0.087	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0087	<0.0043	<0.0043	<0.0043	<0.0043	0.015		

Table 7
Soil Sampling Results
Rheem Manufacturing Company
Milledgeville, Georgia

Location	Date Sampled	Sample Depth	1,1,1-Trichloroethane	1,1-Dichloroethene	2-Butanone (MEK)	Acetone	Carbon tetrachloride	Chloroform	cis-1,2-Dichloroethene	Dichlorobromomethane	Dichloromethane (Methylene chloride)	Ethyl benzene	m&p-Xylene	o-Xylene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Fraction Organic Carbon
Non-Residential RRS			96	3.8	200	400	0.5	8	7	8	2.3	70	20	20	0.89	100	13	0.5	N/A
Ind. Worker Type 4			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	21	--
Const. Worker Type 4			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	38	--
SB-74	04/19/10	4	<0.004	<0.004	<0.04	<0.079	<0.004	0.007	0.088	<0.004	<0.004	<0.004	<0.0079	<0.004	<0.004	<0.004	0.0079	0.17	
SB-74	04/19/10	6	<0.25	<0.25	<2.5	<5.1	<0.25	<0.25	0.85	<0.25	<0.25	<0.25	<0.51	<0.25	<0.25	<0.25	<0.25	9.5	
SB-74	04/19/10	14	<0.0033	<0.0033	<0.033	<0.067	<0.0033	0.018	0.56	<0.0033	<0.0033	<0.0033	<0.0067	<0.0033	<0.0033	<0.0033	0.038	1.7	
DUP-1	04/19/10	14	<0.0042	<0.0042	<0.042	<0.085	<0.0042	0.025	0.25	<0.0042	<0.0042	<0.0042	<0.0085	<0.0042	<0.0042	<0.0042	0.053	0.73	
SB-74	04/19/10	18	<0.0038	<0.0038	<0.038	<0.076	<0.0038	0.0095	0.26	<0.0038	<0.0038	<0.0038	<0.0076	<0.0038	<0.0038	<0.0038	0.033	0.82	
SB-74	04/19/10	22	<0.0039	<0.0039	<0.039	<0.079	<0.0039	0.01	0.64	<0.0039	<0.0039	<0.0039	<0.0079	<0.0039	<0.0039	<0.0039	0.057	2.4	
SB-75	04/19/10	2	<0.0048	<0.0048	<0.048	<0.095	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0095	<0.0048	<0.0048	<0.0048	<0.0048	0.0077	
SB-75	04/19/10	8	<0.0039	<0.0039	<0.039	<0.078	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.0078	<0.0039	<0.0039	<0.0039	<0.0039	0.0092	
SB-75	04/19/10	12	<0.0036	<0.0036	<0.036	<0.071	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0071	<0.0036	<0.0036	<0.0036	<0.0036	0.0068	
SB-75	04/19/10	18	<0.0043	<0.0043	<0.043	<0.085	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.0085	<0.0043	<0.0043	<0.0043	<0.0043	0.0053	
SB-76	04/19/10	4	<0.0052	<0.0052	<0.052	<0.1	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.01	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	
SB-76	04/19/10	10	<0.0036	<0.0036	<0.036	<0.073	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0073	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	
SB-76	04/19/10	14	<0.0039	<0.0039	<0.039	<0.079	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.0079	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	
SB-77	04/19/10	2	<0.0051	<0.0051	<0.051	<0.1	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.01	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	
SB-77	04/19/10	8	<0.0041	<0.0041	<0.041	0.45	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	<0.0081	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	
SB-77	04/19/10	14	<0.0037	<0.0037	<0.037	<0.075	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0075	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	
SB-77	04/19/10	18	<0.0042	<0.0042	<0.042	<0.084	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0084	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	
SB-77	04/19/10	22	<0.0041	<0.0041	<0.041	<0.082	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	<0.0082	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	
SB-78	04/19/10	2	<0.0031	<0.0031	<0.031	0.21	<0.0031	<0.0031	<0.0031	<0.0031	<0.0031	<0.0031	<0.0062	<0.0031	<0.0031	<0.0031	<0.0031	<0.0031	
SB-78	04/19/10	10	<0.0042	<0.0042	<0.042	<0.085	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0085	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	
SB-78	04/19/10	14	<0.0055	<0.0055	<0.055	<0.11	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.0055	<0.011	<0.0055	<0.0055	<0.0055	<0.0055	0.0096	
SB-78	04/19/10	20	<0.0035	<0.0035	<0.035	<0.069	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0069	<0.0035	<0.0035	<0.0035	<0.0035	0.033	
DUP-2	04/19/10	20	<0.0041	<0.0041	<0.041	<0.083	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	<0.0083	<0.0041	<0.0041	<0.0041	<0.0041	0.016	
SB-79	05/20/10	3	<0.0049	<0.0049	<0.049	<0.098	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0098	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	
SB-79	05/19/10	9	<0.004	<0.004	<0.04	<0.08	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.008	<0.004	<0.004	<0.004	<0.004	<0.004	

Table 7
Soil Sampling Results
Rheem Manufacturing Company
Milledgeville, Georgia

Location	Date Sampled	Sample Depth	1,1,1-Trichloroethane	1,1-Dichloroethene	2-Butanone (MEK)	Acetone	Carbon tetrachloride	Chloroform	cis-1,2-Dichloroethene	Dichlorobromomethane	Dichloromethane (Methylene chloride)	Ethyl benzene	m&p-Xylene	o-Xylene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Fraction Organic Carbon
Non-Residential RRS			96	3.8	200	400	0.5	8	7	8	2.3	70	20	20	0.89	100	13	0.5	N/A
Ind. Worker Type 4			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	21	--
Const. Worker Type 4			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	38	--
SB-80	05/20/10	3	<0.0047	<0.0047	<0.047	0.12	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0094	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	
SB-80	05/20/10	6	<0.0048	<0.0048	<0.048	<0.096	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0096	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	
SB-80	05/19/10	12	<0.0045	<0.0045	<0.045	0.15	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.009	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	
SA-1	12/10/13	3																52	
SA-1	12/10/13	10																70	
SA-1	12/10/13	15																21	
SA-1	12/10/13	20																49	
SA-2	12/10/13	4																26	
SA-2	12/10/13	10																22	
SA-2	12/10/13	15																120	
SA-2	12/10/13	20																54	
SA-3	12/10/13	5																14	
SA-3	12/10/13	10																27	
SA-3	12/10/13	15																21	
SA-3	12/10/13	20																110	
SA-4	12/10/13	4																7.5	
SA-4	12/10/13	10																7.6	
SA-4	12/10/13	15																5.6	
SA-4	12/10/13	20																16	
SA-5	12/10/13	5																0.068	
SA-5	12/10/13	10																0.15	
SA-5	12/10/13	12																0.17	
SA-5	12/10/13	19																0.58	
SA-6	12/10/13	5																0.97	
SA-6	12/10/13	10																160	
SA-6	12/10/13	15																94	
SA-6	12/10/13	20																110	

Table 7
Soil Sampling Results
Rheem Manufacturing Company
Milledgeville, Georgia

Location	Date Sampled	Sample Depth	1,1,1-Trichloroethane	1,1-Dichloroethene	2-Butanone (MEK)	Acetone	Carbon tetrachloride	Chloroform	cis-1,2-Dichloroethene	Dichlorobromomethane	Dichloromethane (Methylene chloride)	Ethyl benzene	m&p-Xylene	o-Xylene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Fraction Organic Carbon
Non-Residential RRS			96	3.8	200	400	0.5	8	7	8	2.3	70	20	20	0.89	100	13	0.5	N/A
Ind. Worker Type 4			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	21	--
Const. Worker Type 4			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	38	--
SA-7	12/10/13	5																2.9	
SA-7	12/10/13	10																140	
SA-7	12/10/13	15																5300	
SA-7	12/10/13	20																1100	
SA-8	12/11/13	5																<0.0038	
SA-8	12/11/13	8																0.0031	
SA-8	12/11/13	14																0.087	
SA-8	12/11/13	17																0.14	
SA-9	12/11/13	5																0.69	
SA-9	12/11/13	9																5	
SA-9	12/11/13	12																4.7	
SA-9	12/11/13	17																2	
SCS-1	04/18/18	0.5	<0.0032	<0.0032	<0.032	<0.063	<0.0032	<0.0032	<0.0032	<0.0032	<0.013	<0.0032	<0.0032	<0.0032	<0.0032	<0.0032	<0.0032	0.015	
SCS-1	04/18/18	1.5	<0.0034	<0.0034	<0.034	<0.068	<0.0034	<0.0034	<0.0034	<0.0034	<0.014	<0.0034	<0.0034	<0.0034	<0.0034	<0.0034	<0.0034	<0.0034	
SCS-1	04/18/18	4	<0.0031	<0.0031	<0.031	<0.062	<0.0031	<0.0031	<0.0031	<0.0031	<0.012	<0.0031	<0.0031	<0.0031	<0.0031	<0.0031	<0.0031	0.0069	
SCS-1	04/18/18	8	<0.0034	<0.0034	<0.034	<0.068	<0.0034	<0.0034	<0.0034	<0.0034	<0.014	<0.0034	<0.0034	<0.0034	<0.0034	<0.0034	<0.0034	<0.0034	
SCS-1	04/18/18	13	<0.0037	<0.0037	<0.037	<0.073	<0.0037	<0.0037	<0.0037	<0.0037	<0.015	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	
SCS-2	04/18/18	0.5	<0.0035	<0.0035	<0.035	0.11	<0.0035	<0.0035	<0.0035	<0.0035	<0.014	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	
SCS-2	04/18/18	1.5	<0.0039	<0.0039	<0.039	<0.078	<0.0039	<0.0039	<0.0039	<0.0039	<0.016	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	0.0077	
SCS-2	04/18/18	4	<0.0041	<0.0041	<0.041	<0.081	<0.0041	<0.0041	<0.0041	<0.0041	<0.016	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	
SCS-2	04/18/18	8	<0.0037	<0.0037	<0.037	<0.074	<0.0037	<0.0037	<0.0037	<0.0037	<0.015	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	
SCS-2	04/18/18	13	<0.0033	<0.0033	<0.033	<0.066	<0.0033	<0.0033	<0.0033	<0.0033	<0.013	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	

Table 7
Soil Sampling Results
Rheem Manufacturing Company
Milledgeville, Georgia

Location	Date Sampled	Sample Depth	1,1,1-Trichloroethane	1,1-Dichloroethene	2-Butanone (MEK)	Acetone	Carbon tetrachloride	Chloroform	cis-1,2-Dichloroethene	Dichlorobromomethane	Dichloromethane (Methylene chloride)	Ethyl benzene	m&p-Xylene	o-Xylene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Fraction Organic Carbon
Non-Residential RRS			96	3.8	200	400	0.5	8	7	8	2.3	70	20	20	0.89	100	13	0.5	N/A
Ind. Worker Type 4			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	21	--
Const. Worker Type 4			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	38	--
SCS-3	04/17/18	0.5	<0.0038	<0.0038	<0.038	<0.076	<0.0038	<0.0038	<0.0038	<0.0038	<0.015	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038	
SCS-3	04/17/18	1.5	<0.0039	<0.0039	<0.039	<0.078	<0.0039	<0.0039	<0.0039	<0.0039	<0.016	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	
SCS-3	04/17/18	4	<0.0042	<0.0042	<0.042	<0.083	<0.0042	<0.0042	<0.0042	<0.0042	<0.017	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	
SCS-3	04/17/18	8	<0.0037	<0.0037	<0.037	<0.073	<0.0037	<0.0037	<0.0037	<0.0037	<0.015	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	
SCS-3	04/17/18	13	<0.0035	<0.0035	<0.035	<0.07	<0.0035	<0.0035	<0.0035	<0.0035	<0.014	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	
SCS-4	04/18/18	0.5	<0.0034	<0.0034	<0.034	<0.068	<0.0034	<0.0034	<0.0034	<0.0034	<0.014	<0.0034	<0.0034	<0.0034	<0.0034	<0.0034	<0.0034	<0.0034	
SCS-4	04/18/18	1	<0.0047	<0.0047	<0.047	<0.093	<0.0047	<0.0047	<0.0047	<0.0047	<0.019	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	
SCS-4	04/18/18	4	<0.0038	<0.0038	<0.038	<0.076	<0.0038	<0.0038	<0.0038	<0.0038	<0.015	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038	
SCS-4	04/18/18	8	<0.0037	<0.0037	<0.037	<0.074	<0.0037	<0.0037	<0.0037	<0.0037	<0.015	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	
SCS-4	04/18/18	13	<0.0032	<0.0032	<0.032	<0.065	<0.0032	<0.0032	<0.0032	<0.0032	<0.013	<0.0032	<0.0032	<0.0032	<0.0032	<0.0032	<0.0032	<0.0032	
SCS-5	04/18/18	0.5	<0.0028	<0.0028	<0.028	0.072	<0.0028	<0.0028	<0.0028	<0.0028	<0.011	<0.0028	<0.0028	<0.0028	<0.0028	<0.0028	<0.0028	0.005	
SCS-5	04/18/18	1.5	<0.0029	<0.0029	<0.029	0.11	<0.0029	<0.0029	<0.0029	<0.0029	<0.012	<0.0029	<0.0029	<0.0029	<0.0029	<0.0029	<0.0029	0.034	
SCS-5	04/18/18	4	<0.0032	<0.0032	<0.032	<0.065	<0.0032	<0.0032	<0.0032	<0.0032	<0.013	<0.0032	<0.0032	<0.0032	<0.0032	<0.0032	<0.0032	0.0075	
SCS-5	04/18/18	8	<0.0037	<0.0037	<0.037	<0.075	<0.0037	<0.0037	<0.0037	<0.0037	<0.015	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	
SCS-5	04/18/18	13	<0.0037	<0.0037	<0.037	<0.074	<0.0037	<0.0037	<0.0037	<0.0037	<0.015	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	
SCS-6	04/17/18	0.5	<0.0032	<0.0032	<0.032	0.14	<0.0032	<0.0032	<0.0032	<0.0032	<0.013	<0.0032	<0.0032	<0.0032	<0.0032	<0.0032	<0.0032	<0.0032	
SCS-6	04/17/18	1.5	<0.0034	<0.0034	<0.034	<0.069	<0.0034	<0.0034	<0.0034	<0.0034	<0.014	<0.0034	<0.0034	<0.0034	<0.0034	<0.0034	<0.0034	0.015	
SCS-6	04/17/18	4	<0.0035	<0.0035	<0.035	0.11	<0.0035	<0.0035	<0.0035	<0.0035	<0.014	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	
SCS-6	04/17/18	8	<0.0036	<0.0036	<0.036	<0.072	<0.0036	<0.0036	<0.0036	<0.0036	<0.014	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	0.0066	
SCS-6	04/17/18	13	<0.0041	<0.0041	<0.041	<0.081	<0.0041	<0.0041	<0.0041	<0.0041	<0.016	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	0.0078	
SCS-7	04/18/18	0.5	<0.21	<0.21	<2.1	<4.2	<0.21	<0.21	<0.21	<0.21	<0.85	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	
SCS-7	04/18/18	1.5	<0.0036	<0.0036	<0.036	0.077	<0.0036	<0.0036	0.16	<0.0036	<0.015	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	0.037	
SCS-7	04/18/18	4	<0.0039	<0.0039	<0.039	<0.079	<0.0039	<0.0039	0.03	<0.0039	<0.016	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	0.17	
SCS-7	04/18/18	8	<0.0051	<0.0051	<0.051	0.12	<0.0051	<0.0051	0.44	<0.0051	<0.02	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	3.1	
SCS-7	04/18/18	13	<0.0064	<0.0064	<0.064	<0.13	<0.0064	<0.0064	<0.0064	<0.0064	<0.026	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064	

Table 7
Soil Sampling Results
Rheem Manufacturing Company
Milledgeville, Georgia

Location	Date Sampled	Sample Depth	1,1,1-Trichloroethane	1,1-Dichloroethene	2-Butanone (MEK)	Acetone	Carbon tetrachloride	Chloroform	cis-1,2-Dichloroethene	Dichlorobromomethane	Dichloromethane (Methylene chloride)	Ethyl benzene	m&p-Xylene	o-Xylene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Fraction Organic Carbon
Non-Residential RRS			96	3.8	200	400	0.5	8	7	8	2.3	70	20	20	0.89	100	13	0.5	N/A
Ind. Worker Type 4			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	21	--
Const. Worker Type 4			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	38	--
SCS-8	04/17/18	0.5	<0.0039	<0.0039	<0.039	<0.079	<0.0039	<0.0039	<0.0039	<0.0039	<0.016	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	
SCS-8	04/17/18	1.5	<0.0025	<0.0025	<0.025	<0.049	<0.0025	<0.0025	<0.0025	<0.0025	<0.0099	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
SCS-8	04/17/18	4	<0.0035	<0.0035	<0.035	<0.07	<0.0035	<0.0035	<0.0035	<0.0035	<0.014	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	
SCS-8	04/17/18	8	<0.0038	<0.0038	<0.038	<0.076	<0.0038	<0.0038	<0.0038	<0.0038	<0.015	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038	
SCS-8	04/17/18	13	<0.0037	<0.0037	<0.037	<0.074	<0.0037	<0.0037	<0.0037	<0.0037	<0.015	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	
SCS-9	04/17/18	0.5	<0.0038	<0.0038	<0.038	<0.077	<0.0038	<0.0038	<0.0038	<0.0038	<0.015	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038	
SCS-9	04/17/18	1.5	<0.0045	<0.0045	<0.045	<0.089	<0.0045	<0.0045	<0.0045	<0.0045	<0.018	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	
SCS-9	04/17/18	4	<0.0038	<0.0038	<0.038	<0.077	<0.0038	<0.0038	<0.0038	<0.0038	<0.015	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038	
SCS-9	04/17/18	8	<0.0034	<0.0034	<0.034	<0.067	<0.0034	<0.0034	<0.0034	<0.0034	<0.013	<0.0034	<0.0034	<0.0034	<0.0034	<0.0034	<0.0034	<0.0034	
SCS-9	04/17/18	13	<0.0037	<0.0037	<0.037	<0.075	<0.0037	<0.0037	<0.0037	<0.0037	<0.015	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	
SCS-10	04/18/18	0.5	<0.0034	<0.0034	<0.034	<0.069	<0.0034	<0.0034	<0.0034	<0.0034	<0.014	<0.0034	<0.0034	<0.0034	<0.0034	<0.0034	<0.0034	0.014	
SCS-10	04/18/18	1.5	<0.0032	<0.0032	<0.032	0.076	<0.0032	<0.0032	0.0062	<0.0032	<0.013	<0.0032	<0.0032	<0.0032	<0.0032	<0.0032	<0.0032	0.081	
SCS-10	04/18/18	4	<0.0041	<0.0041	<0.041	<0.081	<0.0041	<0.0041	<0.0041	<0.0041	<0.016	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	0.0092	
SCS-10	04/18/18	8	<0.0037	<0.0037	<0.037	<0.074	<0.0037	<0.0037	<0.0037	<0.0037	<0.015	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	0.015	
SCS-10	04/18/18	13	<0.0036	<0.0036	<0.036	<0.072	<0.0036	<0.0036	<0.0036	<0.0036	<0.014	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	
SCS-11	04/18/18	0.5	<0.0037	<0.0037	<0.037	<0.073	<0.0037	<0.0037	<0.0037	<0.0037	<0.015	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	0.0088	
SCS-11	04/18/18	1.5	<0.0033	<0.0033	<0.033	<0.067	<0.0033	<0.0033	<0.0033	<0.0033	<0.013	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	0.045	
SCS-11	04/18/18	4	<0.0044	<0.0044	<0.044	<0.089	<0.0044	<0.0044	<0.0044	<0.0044	<0.018	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	0.007	
SCS-11	04/18/18	8	<0.0044	<0.0044	<0.044	<0.088	<0.0044	<0.0044	<0.0044	<0.0044	<0.018	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	0.015	
SCS-11	04/18/18	13	<0.0038	<0.0038	<0.038	<0.077	<0.0038	<0.0038	<0.0038	<0.0038	<0.015	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038	0.017	
SCS-12	04/18/18	0.5	<0.004	<0.004	<0.04	<0.08	<0.004	<0.004	<0.004	<0.004	<0.016	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.011	
SCS-12	04/18/18	1.5	<0.0032	<0.0032	<0.032	<0.08	<0.0032	<0.0032	<0.0032	<0.0032	<0.013	<0.0032	<0.0032	<0.0032	<0.0032	<0.0032	<0.0032	0.049	
SCS-12	04/18/18	4	<0.0042	<0.0042	<0.042	<0.085	<0.0042	<0.0042	<0.0042	<0.0042	<0.017	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	
SCS-12	04/18/18	8	<0.0038	<0.0038	<0.038	<0.076	<0.0038	<0.0038	<0.0038	<0.0038	<0.015	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038	0.011	
SCS-12	04/18/18	13	<0.0044	<0.0044	<0.044	<0.087	<0.0044	<0.0044	<0.0044	<0.0044	<0.017	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	

Table 7
Soil Sampling Results
Rheem Manufacturing Company
Milledgeville, Georgia

Location	Date Sampled	Sample Depth	1,1,1-Trichloroethane	1,1-Dichloroethene	2-Butanone (MEK)	Acetone	Carbon tetrachloride	Chloroform	cis-1,2-Dichloroethene	Dichlorobromomethane	Dichloromethane (Methylene chloride)	Ethyl benzene	m&p-Xylene	o-Xylene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Fraction Organic Carbon
Non-Residential RRS			96	3.8	200	400	0.5	8	7	8	2.3	70	20	20	0.89	100	13	0.5	N/A
Ind. Worker Type 4			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	21	--
Const. Worker Type 4			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	38	--
SCS-13	04/17/18	4	<0.006	<0.006	<0.06	<0.12	<0.006	<0.006	<0.006	<0.006	<0.024	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	0.0087	
SCS-13	04/17/18	8	<0.005	<0.005	<0.05	<0.1	<0.005	<0.005	<0.005	<0.005	<0.02	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
SCS-14	04/17/18	0.5	<0.0033	<0.0033	<0.033	<0.066	<0.0033	<0.0033	<0.0033	<0.0033	<0.013	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	0.034	
SCS-14	04/17/18	1.5	<0.0037	<0.0037	<0.037	<0.075	<0.0037	<0.0037	<0.0037	<0.0037	<0.015	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	0.05	
SCS-14	04/17/18	5	<0.0034	<0.0034	<0.034	<0.069	<0.0034	<0.0034	<0.0034	<0.0034	<0.014	<0.0034	<0.0034	<0.0034	<0.0034	<0.0034	<0.0034	<0.0034	
SCS-14	04/17/18	7	<0.0039	<0.0039	<0.039	<0.078	<0.0039	<0.0039	<0.0039	<0.0039	<0.016	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	
SCS-14	04/17/18	12	<0.0041	<0.0041	<0.041	<0.083	<0.0041	<0.0041	<0.0041	<0.0041	<0.017	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	0.0078	
SCS-15	04/17/18	0.5	<0.0044	<0.0044	<0.044	<0.087	<0.0044	<0.0044	<0.0044	<0.0044	<0.017	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	0.15	
SCS-15	04/17/18	1.5	<0.0037	<0.0037	<0.037	0.2	<0.0037	<0.0037	<0.0037	<0.0037	<0.015	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	0.17	
SCS-15	04/17/18	4	<0.0037	<0.0037	<0.037	<0.074	<0.0037	<0.0037	<0.0037	<0.0037	<0.015	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	0.0055	
SCS-15	04/17/18	10	<0.004	<0.004	0.22	0.31	<0.004	<0.004	<0.004	<0.004	<0.016	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	
SCS-15	04/17/18	14	<0.0032	<0.0032	<0.032	<0.063	<0.0032	<0.0032	<0.0032	<0.0032	<0.013	<0.0032	<0.0032	<0.0032	<0.0032	<0.0032	<0.0032	0.0093	
SCS-16	04/17/18	0.5	<0.0039	<0.0039	<0.039	<0.078	<0.0039	<0.0039	<0.0039	<0.0039	<0.016	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	1.3	
SCS-16	04/17/18	1.5	<0.0028	<0.0028	<0.028	<0.056	<0.0028	<0.0028	<0.0028	<0.0028	<0.011	<0.0028	<0.0028	<0.0028	<0.0028	<0.0028	<0.0028	0.0048	
SCS-16	04/17/18	4	<0.0035	<0.0035	<0.035	<0.069	<0.0035	<0.0035	<0.0035	<0.0035	<0.014	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	0.0049	
SCS-16	04/17/18	8	<0.0035	<0.0035	<0.035	<0.071	<0.0035	<0.0035	<0.0035	<0.0035	<0.014	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	
SCS-16	04/17/18	12	<0.0036	<0.0036	<0.036	<0.071	<0.0036	<0.0036	<0.0036	<0.0036	<0.014	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	0.012	
SCS-17	04/17/18	0.5	<0.0039	<0.0039	<0.039	<0.079	<0.0039	<0.0039	<0.0039	<0.0039	<0.016	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	0.094	
SCS-17	04/17/18	1.5	<0.0038	<0.0038	<0.038	0.21	<0.0038	<0.0038	0.0049	<0.0038	<0.015	<0.0038	<0.0038	<0.0038	0.0077	<0.0038	<0.0038	0.67	
SCS-17	04/17/18	4	<0.0037	<0.0037	<0.037	<0.074	<0.0037	<0.0037	<0.0037	<0.0037	<0.015	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	0.019	
SCS-17	04/17/18	8	<0.004	<0.004	<0.04	<0.08	<0.004	<0.004	<0.004	<0.004	<0.016	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.0042	
SCS-17	04/17/18	13	<0.0036	<0.0036	<0.036	<0.072	<0.0036	<0.0036	0.0036	<0.0036	<0.014	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	0.045	

Table 7
Soil Sampling Results
Rheem Manufacturing Company
Milledgeville, Georgia

Location	Date Sampled	Sample Depth	1,1,1-Trichloroethane	1,1-Dichloroethene	2-Butanone (MEK)	Acetone	Carbon tetrachloride	Chloroform	cis-1,2-Dichloroethene	Dichlorobromomethane	Dichloromethane (Methylene chloride)	Ethyl benzene	m&p-Xylene	o-Xylene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Fraction Organic Carbon
Non-Residential RRS			96	3.8	200	400	0.5	8	7	8	2.3	70	20	20	0.89	100	13	0.5	N/A
Ind. Worker Type 4			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	21	--
Const. Worker Type 4			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	38	--
SCS-18	04/17/18	0.5	<0.0037	<0.0037	<0.037	0.12	<0.0037	<0.0037	<0.0037	<0.0037	<0.015	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	0.95	
SCS-18	04/17/18	1.5	<0.0031	<0.0031	<0.031	0.071	<0.0031	<0.0031	<0.0031	<0.0031	<0.012	<0.0031	<0.0031	<0.0031	<0.0031	<0.0031	<0.0031	0.056	
SCS-18	04/17/18	4	<0.004	<0.004	<0.04	<0.081	<0.004	<0.004	<0.004	<0.004	<0.016	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	
SCS-18	04/17/18	8	<0.0053	<0.0053	<0.053	<0.11	<0.0053	<0.0053	<0.0053	<0.0053	<0.021	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	
SCS-18	04/17/18	13	<0.0031	<0.0031	<0.031	<0.063	<0.0031	<0.0031	<0.0031	<0.0031	<0.013	<0.0031	<0.0031	<0.0031	<0.0031	<0.0031	<0.0031	<0.0031	
SCS-19	04/17/18	0.5	<0.0037	<0.0037	<0.037	0.09	<0.0037	<0.0037	<0.0037	<0.0037	<0.015	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	0.57	
SCS-19	04/17/18	1.5	<0.0034	<0.0034	<0.034	<0.068	<0.0034	<0.0034	<0.0034	<0.0034	<0.014	<0.0034	<0.0034	<0.0034	<0.0034	<0.0034	<0.0034	0.016	
SCS-19	04/17/18	4	<0.004	<0.004	<0.04	<0.08	<0.004	<0.004	<0.004	<0.004	<0.016	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	
SCS-19	04/17/18	8	<0.0028	<0.0028	<0.028	<0.056	<0.0028	<0.0028	<0.0028	<0.0028	<0.011	<0.0028	<0.0028	<0.0028	<0.0028	<0.0028	<0.0028	0.0038	
SCS-19	04/17/18	13	<0.0037	<0.0037	<0.037	<0.074	<0.0037	<0.0037	<0.0037	<0.0037	<0.015	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	

Notes:

Detections are shown in bold.

Only VOCs detected in one or more soil samples are included in this table.

mg/kg = milligrams per kilogram

Table 8
Comparison of TCE in Soil Pre- and Post-SVE Operations
Rheem Manufacturing Company
Milledgeville, Georgia

Statistical Parameter	Trichloroethene Concentration (mg/kg)	
	pre-SVE	post-SVE
# of Samples	103	55
Minimum	ND	ND
Maximum	78,000	3.1
Mean	2,333	0.097
Median	55	0.0048
Standard Deviation	8,407	0.45

Notes:

SVE: soil vapor extraction

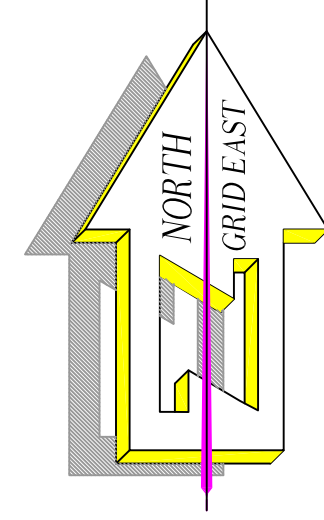
pre-SVE: samples collected within the SVE zone of influence in
2008, 2009, 2010, and 2013 before SVE operations were initiated.

post-SVE: samples collected within the SVE zone of influence in
2018 after the SVE operations ceased

mg/kg: milligram per kilogram

ND: Not Detected

APPENDIX A
Survey and Legal Description for Newly Acquired Parcels



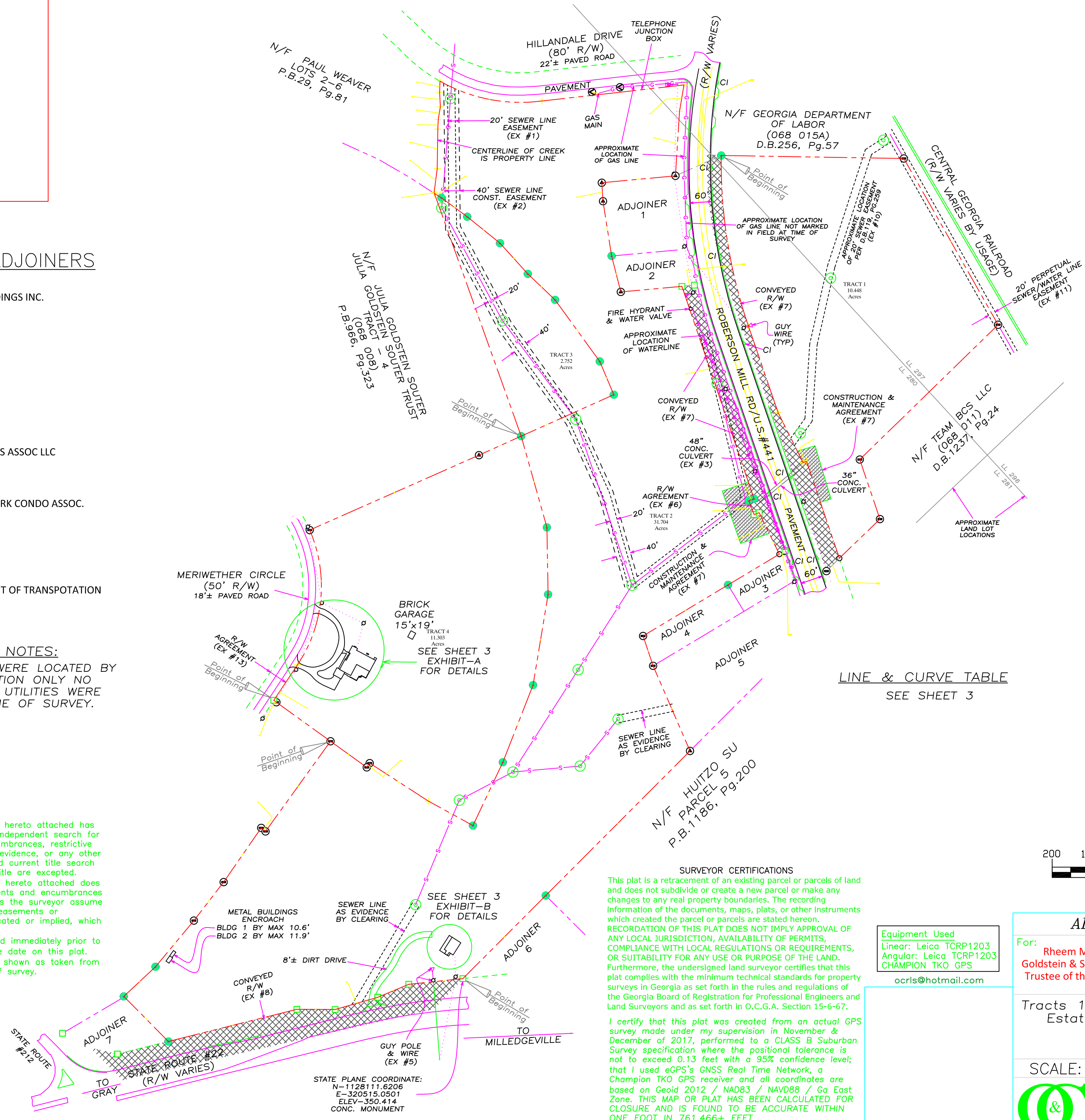
PROPERTY ADJOINERS

- 1) CFI REAL ESTATE HOLDINGS INC.
(068 013)
D.B.611, PG.367
- 2) NTG PROPERTIES LLC
(068 012)
D.B.1225, PG.1
- 3) DWANYNE SENTELL
(068 010R)
D.B.448, PG.730
- 4) CAPITAL INVESTMENTS ASSOC LLC
(068 010P)
D.B.697, PG.278
- 5) NORTHSIDE OFFICE PARK CONDO ASSOC.
(068 010)
D.B.1239, PG.77
- 6) RODGER FULLER
(M34 016)
D.B.1239, PG.77
- 7) GEORGIA DEPARTMENT OF TRANSPORTATION
D.B.211, PG.140

UTILITY NOTES:
ALL UTILITIES WERE LOCATED BY VISUAL INSPECTION ONLY NO UNDERGROUND UTILITIES WERE MARKED AT TIME OF SURVEY.

NOTES:

- 1) The surveyor whose seal is hereto attached has made no investigation or independent search for easements of record, encumbrances, restrictive covenants, ownership title evidence, or any other facts that an accurate and current title search may disclose. Matters of title are excepted.
- 2) The surveyor whose seal is hereto attached does not certify that all easements and encumbrances have been shown, nor does the surveyor assume any liability for any such easements or encumbrances, either dedicated or implied, which may affect this property.
- 3) The fieldwork was performed immediately prior to and/or concurrent with the date on this plat.
- 4) The adjoiner information is shown as taken from tax records at the time of survey.



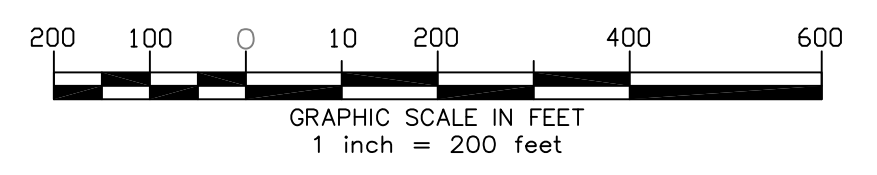
LEGEND:

- -1/2" IRON PIN SET (IPS)
- -5/8" IRON PIN FOUND (IPF)
- ⊙ -1/2" IRON PIN FOUND (IPF)
- ⊕ -1" IRON PIPE FOUND (IPPF)
- -CONCRETE MONUMENT FOUND
- ⊗ -MONITORING WELL
- ⊕ -FIRE HYDRANT
- ⊕ -GAS VALVE
- ⊕ -COMPUTED POINT
- ⊕ -UTILITY POLE
- OVERHEAD UTILITY LINE
- SANITARY SEWER LINE
- RIGHT-OF-WAY LINE
- PROPERTY LINE
- GUARD RAIL
- CI CURB INLET

REFERENCES:

- D.B.36, PG.408
- D.B.40, PG.286
- D.B.40, PG.366
- D.B.40, PG.418
- D.B.40, PG.566
- D.B.46, PG.269
- D.B.64, PG.492
- D.B.81, PG.455
- D.B.119, PG.257
- D.B.131, PG.283
- D.B.211, PG.142
- D.B.237, PG.385
- D.B.237, PG.390
- D.B.253, PG.746
- D.B.312, PG.435
- D.B.312, PG.437
- D.B.754, PG.66
- P.B.7, PG.74
- P.B.14, PG.38
- P.B.18, PG.5
- P.B.29, PG.59
- P.B.35, PG.35
- CLERK OF SUPERIOR COURT
BALDWIN COUNTY, GEORGIA

LINE & CURVE TABLE
SEE SHEET 3



SURVEYOR CERTIFICATIONS

This plat is a retracement of an existing parcel or parcels of land and does not subdivide or create a new parcel or make any changes to any real property boundaries. The recording information of the documents, maps, plats, or other instruments which created the parcel or parcels are stated hereon. RECORDATION OF THIS PLAT DOES NOT IMPLY APPROVAL OF ANY LOCAL JURISDICTION, AVAILABILITY OF PERMITS, COMPLIANCE WITH LOCAL REGULATIONS OR REQUIREMENTS, OR SUITABILITY FOR ANY USE OR PURPOSE OF THE LAND. Furthermore, the undersigned land surveyor certifies that this plat complies with the minimum technical standards for property surveys in Georgia as set forth in the rules and regulations of the Georgia Board of Registration for Professional Engineers and Land Surveyors and as set forth in O.C.G.A. Section 15-6-67.

I certify that this plat was created from an actual GPS survey made under my supervision in November & December of 2017, performed to a CLASS B Suburban Survey specification where the positional tolerance is not to exceed 0.13 feet with a 95% confidence level; that I used eGPS's GNSS Real Time Network, a Champion TKO GPS receiver and all coordinates are based on Geoid 2012 / NAD83 / NAVD88 / Ga East Zone. THIS MAP OR PLAT HAS BEEN CALCULATED FOR CLOSURE AND IS FOUND TO BE ACCURATE WITHIN ONE FOOT IN 761,466+ FEET.

Equipment Used
Linear: Leica TCRP1203
Angular: Leica TCRP1203
CHAMPION TKO GPS
ocrsl@hotmail.com

STATE PLANE COORDINATE:
N-1128111.6206
E-320515.0501
ELEV-350.414
CONC. MONUMENT

ALTA/NSPS Land Title Survey

For: **Rheem Manufacturing, First American Title Insurance Company, C. Goldstein & Sons, Inc., Jacob Goldstein & Maxine Goldstein or Successor as Trustee of the Maxine Shapiro Goldstein Family Trust dated July 30, 2014.**

Tracts 1 Thru 4 of the C. Goldstein & Sons Estate, lying in Land Lots 280 & 297 in the 318th G. M. District Baldwin County, Georgia

SCALE: 1" = 200' December 19, 2017

Ogletree & Chivers
Land Surveyors
693 Dunlap Rd. Suite B
Milledgeville, GA 31061 478-453-3454 7271

After recording, please return to:
Gary D. Knopf, Esq.
Troutman Sanders LLP
Suite 5200
600 Peachtree Street, NE
Atlanta, Georgia 30308

STATE OF GEORGIA

COUNTY OF BALDWIN

LIMITED WARRANTY DEED

THIS INDENTURE is made as of the 29 day of January, 2018, between MAXINE GOLDSTEIN OR SUCCESSOR, AS TRUSTEE OF THE MAXINE SHAPIRO GOLDSTEIN FAMILY TRUST DATED JULY 30, 2014 ("Grantor"), and RHEEM MANUFACTURING COMPANY, a Delaware corporation ("Grantee"; the terms "Grantor" and "Grantee" to include their respective heirs, legal representatives, successors and assigns where the context requires or permits).

W I T N E S S E T H :

That Grantor, for and in consideration of the sum of Ten and No/100 Dollars (\$10.00), and other good and valuable consideration, in hand paid at and before the sealing and delivery of these presents, the receipt, adequacy and sufficiency whereof are hereby acknowledged, has granted, bargained, sold, aliened, conveyed and confirmed, and by these presents does hereby grant, bargain, sell, alien, convey and confirm unto Grantee, the following described real property, to wit:

ALL THAT TRACT OR PARCEL of land lying and being in Land Lot 280, 318th GMD, Baldwin County, Georgia, containing 2.99 acres, and being all of Tract Three (3) as shown on a plat by Edwin L. Thompson dated September 28, 1999 recorded in Plat Book 18, Page 5, Office of the Clerk of Superior Court of Baldwin County, Georgia, which plat is by this reference incorporated herein (the "Land"); TOGETHER WITH any and all improvements, appurtenances, rights, privileges and easements benefiting, belonging or pertaining to the Land, and any right, title and interest of Grantor in and to any land lying in the bed of any street, road or highway in front of or adjoining said Land, together with any strips or gores relating to the Land (the Land and the foregoing rights, easements and appurtenances being hereinafter collectively referred to as the "Property").

TO HAVE AND TO HOLD the Property, together with all and singular the rights, members and appurtenances thereof, to the same being, belonging, or in anywise appertaining, to the only proper use, benefit and behoof of Grantee forever in FEE SIMPLE.

AND Grantor will warrant and forever defend the right and title to the Property unto Grantee against the claims of all persons or entities claiming by, through or under Grantor, subject only to the matters set forth on Exhibit "A" attached hereto and made a part hereof by this reference.

(Signature appears on next page)

IN WITNESS WHEREOF, Grantor has signed and sealed this Deed, the day, month and year first above written.

Signed, sealed and delivered
in the presence of:

Doris Lundquist
Witness

Harvey E. Morse
Notary Public

Commission Expiration Date:

1-12-2021

(NOTARY SEAL)
Haywood County, North Carolina
Notary Public
Harvey E. Morse
My Commission Expires 01/12/2021

GRANTOR:

Jayne Goldstein (SEAL)
MAXINE GOLDSTEIN, AS TRUSTEE OF THE
MAXINE SHAPIRO GOLDSTEIN FAMILY TRUST
DATED JULY 30, 2014

EXHIBIT "A"

PERMITTED EXCEPTIONS

1. All applicable, city, state and county real and personal property taxes for the year 2018 and subsequent years, a lien not yet due and payable.

Prepared by and return to:
Gary D. Knopf, Esq.
Troutman Sanders LLP
600 Peachtree Street, N.E., Suite 5200
Atlanta, Georgia 30308

QUITCLAIM DEED

STATE OF GEORGIA
COUNTY OF BALDWIN

This Quitclaim Deed made and entered into as of this 29 day of January, 2018, by and between MARCIA GOLDSTEIN, as Executrix under the Last Will and Testament of JACOB L. GOLDSTEIN, under Will dated May 3, 2011, late of the State of Georgia, and County of Baldwin, deceased and MAXINE GOLDSTEIN OR SUCCESSOR, AS TRUSTEE OF THE MAXINE SHAPIRO GOLDSTEIN FAMILY TRUST DATED JULY 30, 2014 (collectively, "Grantor"), and RHEEM MANUFACTURING COMPANY, a Delaware corporation ("Grantee"). The designation Grantor and Grantee, as used herein, shall include said parties, their heirs, successors, and assigns, and shall include singular, plural, masculine, feminine or neuter, as required by context.

WITNESSETH:

WITNESSETH, Grantor, for and in consideration of the sum of TEN DOLLARS (\$10.00) AND OTHER GOOD AND VALUABLE CONSIDERATION, cash in hand paid, the receipt of which is hereby acknowledged, has bargained, sold and does by these presents bargain, sell, remise, release, convey and forever quitclaim to Grantee all the right, title, interest, claim or demand which Grantor has or may have had, if any, in and to all that tract of land described on Exhibit A, attached hereto and made a part hereof (the "Property").

Together with all the rights, members and appurtenances to the Property in anywise appertaining or belonging.

TO HAVE AND TO HOLD the Property unto Grantee, so that neither Grantor nor any other person or persons claiming under Grantor shall at any time, claim or demand any right, title or interest to the Property or its appurtenances.

(Signature appears on next page)

IN WITNESS WHEREOF, the Grantor has caused these presents to be signed.

Signed, sealed and delivered
in the presence of:

Doris Lundquist
Witness

GRANTOR:

Marcia Goldstein (SEAL)
MARCIA GOLDSTEIN, as Executor
of the Last Will and Testament of Jacob L. Goldstein

Harvey E. Morse
Notary Public

Commission Expiration Date:

1-12-2021

(NOTARY SEAL)

Haywood County, North Carolina
Notary Public
Harvey E. Morse
My Commission Expires 01/12/2021

Maxine Goldstein (SEAL)
MAXINE GOLDSTEIN, AS TRUSTEE OF THE
MAXINE SHAPIRO GOLDSTEIN FAMILY
TRUST DATED JULY 30, 2014

EXHIBIT A

LEGAL DESCRIPTION OF THE PROPERTY

All that tract or parcel of land lying in the 318th G. M. District of Baldwin County, Georgia and more particularly described as follows:

From the POINT OF BEGINNING; which is a concrete monument found on the easterly right-of-way of Meriwether Circle,

Thence, N 33° 43' 28" E for a distance of 115.82 feet to a computed point at the beginning point of a non-tangential curve.

Said curve turning to the left through an angle of 36° 56' 40", having a radius of 381.26 feet, and whose long chord bears N 5° 07' 24" E for a distance of 365.02 feet to a 1/2" iron pin found.

Thence, N 66° 07' 28" E for a distance of 499.64 feet to a 1" iron pipe found.

Thence, N 65° 45' 08" E for a distance of 125.05 feet to a 5/8" iron pin found.

Thence, S 15° 43' 05" E for a distance of 256.06 feet to a 5/8" iron pin found.

Thence, S 01° 02' 06" E for a distance of 181.05 feet to a 5/8" iron pin found.

Thence, S 09° 24' 37" W for a distance of 248.07 feet to a 5/8" iron pin found.

Thence, S 21° 22' 57" W for a distance of 223.96 feet to a 5/8" iron pin found.

Thence, S 25° 15' 32" W for a distance of 188.96 feet to a 5/8" iron pin found.

Thence, N 61° 16' 02" W for a distance of 136.62 feet to a 5/8" iron pin found.

Thence, N 57° 06' 11" W for a distance of 189.35 feet to a computed point.

Thence, S 34° 33' 05" W for a distance of 13.96 feet to a 1/2" iron pin found.

Thence, N 54° 11' 29" W for a distance of 120.69 feet to a 1/2" iron pin found.

Thence, N 54° 12' 20" W for a distance of 180.11 feet to a 1/2" iron pin found.

Thence, N 53° 00' 22" W for a distance of 8.67 feet to a concrete monument found on the right-of-way of Meriwether Circle, which is the point of beginning.

Tract 4 contains 11.303 Acres

Being the same property shown as Tract 4 on ALTA/NSPS Land Title Survey dated December 19, 2017, prepared by Ogletree & Chivers Land Surveyor and bearing the seal and certification of Phillip H. Chivers, RLS No. 2658.

After recording, please return to:
Gary D. Knopf, Esq.
Troutman Sanders LLP
Suite 5200
600 Peachtree Street, NE
Atlanta, Georgia 30308

STATE OF GEORGIA

COUNTY OF BALDWIN

LIMITED WARRANTY DEED

THIS INDENTURE is made as of the 29 day of January, 2018, between C. GOLDSTEIN & SONS, INC., a Georgia corporation ("Grantor"), and RHEEM MANUFACTURING COMPANY, a Delaware corporation ("Grantee"; the terms "Grantor" and "Grantee" to include their respective heirs, legal representatives, successors and assigns where the context requires or permits).

W I T N E S S E T H :

That Grantor, for and in consideration of the sum of Ten and No/100 Dollars (\$10.00), and other good and valuable consideration, in hand paid at and before the sealing and delivery of these presents, the receipt, adequacy and sufficiency whereof are hereby acknowledged, has granted, bargained, sold, aliened, conveyed and confirmed, and by these presents does hereby grant, bargain, sell, alien, convey and confirm unto Grantee, the following described real property, to wit:

ALL THAT TRACT OR PARCEL of land lying and being in Baldwin County, Georgia, being more particularly described on Exhibit "A" attached hereto and made a part hereof by this reference (the "Land"); TOGETHER WITH any and all improvements, appurtenances, rights, privileges and easements benefiting, belonging or pertaining to the Land, and any right, title and interest of Grantor in and to any land lying in the bed of any street, road or highway in front of or adjoining said Land, together with any strips or gores relating to the Land (the Land and the foregoing rights, easements and appurtenances being hereinafter collectively referred to as the "Property").

IN WITNESS WHEREOF, Grantor has signed and sealed this Deed, the day, month and year first above written.

Signed, sealed and delivered
in the presence of:

GRANTOR:

GOLDSTEIN & SONS, INC.,
a Georgia corporation

Lorin Lundquist
Witness

By: *Marcia Goldstein*
Name: Marcia Goldstein
Title: CEO and CFO

[Signature]
Notary Public

(CORPORATE SEAL)



Commission Expiration Date:

1-12-2021

(NOTARY SEAL)

Haywood County, North Carolina
Notary Public
Harvey E. Morse
My Commission Expires 01/12/2021

TO HAVE AND TO HOLD the Property, together with all and singular the rights, members and appurtenances thereof, to the same being, belonging, or in anywise appertaining, to the only proper use, benefit and behoof of Grantee forever in FEE SIMPLE.

AND Grantor will warrant and forever defend the right and title to the Property unto Grantee against the claims of all persons or entities claiming by, through or under Grantor, subject only to the matters set forth on Exhibit "B" attached hereto and made a part hereof by this reference.

(Signature appears on next page)

EXHIBIT "A"

LEGAL DESCRIPTIONS

TRACT A

All that tract or parcel of land consisting of 10.45 acres and being in Land Lots 280 and 279, 318th GMD, Baldwin County, Georgia as shown on a plat by Edwin L. Thompson dated January 3, 1998 recorded in Plat Book 14, Page 38, Office of the Clerk of Superior Court of Baldwin County, Georgia.

Being the same property shown as Tract 1 on ALTA/NSPS Land Title Survey dated December 19, 2017, prepared by Ogletree & Chivers Land Surveyor and bearing the seal and certification of Phillip H. Chivers, RLS No. 2658 and more particularly described by the following metes and bounds legal description:

All that tract or parcel of land lying in the 318th G. M. District of Baldwin County, Georgia, more particularly described as followed:

From a 5/8" iron pin found on the easterly right-of-way of Roberson Mill Road (right-of-way varies) which is the Point of Beginning

Thence, S 89° 03' 52" E for a distance of 493.14 feet to a point on a 1/2" iron pin.

Thence, S 29° 32' 37" E for a distance of 516.09 feet to a 1/2" iron pin found.

Thence, S 45° 43' 56" W for a distance of 521.63 feet to a point on a 1/2" iron pin found.

Thence, S 18° 42' 26" E for a distance of 169.84 feet to a 1/2" iron pin found.

Thence, S 45° 59' 21" W for a distance of 152.23 feet to a 1/2" iron pin set.

Thence, N 18° 42' 30" W for a distance of 276.34 feet to a computed point.

Thence, S 71° 04' 28" W for a distance of 10.00 feet to a computed point.

Thence, N 26° 31' 13" W for a distance of 151.30 feet to a computed point.

Thence N 18° 55' 32" W a distance of 246.17 feet to a computed point.

Thence along a curve said curve turning to the right through an angle of 19° 35' 10", having a radius of 1372.41 feet, and whose long chord bears N 09° 03' 36" W for a distance of 466.87 feet to a 5/8" iron pin found on the easterly right-of way of Roberson Mill Road which is the point of Beginning.

Said Tract 1 having an area of 10.448 Acres.

TRACT B

All of that tract or parcel of land lying consisting of 34.98 acres and being in Land Lots 280 and 297, 318th GMD, Baldwin County, Georgia as shown on that Plat of Survey dated May 9, 2009, prepared for C. Goldstein & Sons, Inc. by Edwin L. Thompson.

LESS AND EXCEPT 0.508 acres more or less conveyed by Warranty Deed from C. Goldstein & Sons, Inc. to State of Georgia Department of Transportation, dated April 11, 1986, recorded April 15, 1986, in Deed Book 211, Page 141, afore said records.

Being the same property shown as Tracts 2 and 3 on ALTA/NSPS Land Title Survey dated December 19, 2017, prepared by Ogletree & Chivers Land Surveyor and bearing the seal and certification of Phillip H. Chivers, RLS No. 2658 and more particularly described by the following metes and bounds legal descriptions:

AS-SURVEYED DESCRIPTION (TRACT 2)

All that tract or parcel of land lying in the 318th G. M. District of Baldwin County, Georgia and more particularly described as follows:

From the POINT OF BEGINNING; which is a concrete monument found on the northerly right-of-way of Georgia State Route #22,

Thence, S 83° 59' 59" W for a distance of 146.99 feet to a concrete monument found on right-of-way.

Thence, S 67° 14' 00" W for a distance of 90.64 feet to a concrete monument found on right-of-way.

Thence, S 74° 00' 21" W for a distance of 119.67 feet to a concrete monument found on right-of-way.

Thence, N 89° 45' 41" W for a distance of 103.28 feet to a concrete monument found on right-of-way.

Thence, S 75° 58' 17" W for a distance of 357.67 feet to a 5/8" iron pin found on right-of-way.

Thence, N 44° 40' 53" W for a distance of 171.10 feet to a 5/8" iron pin found.

Thence, N 46° 54' 37" E for a distance of 117.15 feet to a 5/8" iron pin found.

Thence, N 39° 43' 29" E for a distance of 162.20 feet to a 1/2" iron pin found.

Thence, N 37° 41' 56" E for a distance of 131.33 feet to a 1/2" iron pin found.

Thence, N 34° 42' 51" E for a distance of 178.13 feet to a 1/2" iron pin found.

Thence, S 50° 45' 39" E for a distance of 15.00 feet to a 1/2" iron pin found.

Thence, N 35° 46' 17" E for a distance of 300.11 feet to a 1/2" iron pin found.

Thence, S 54° 11' 29" E for a distance of 120.69 feet to a 1/2" iron pin found.

Thence, N 34° 33' 05" E for a distance of 13.96 feet to a 1/2" iron pin found.

Thence, S 57° 06' 11" E for a distance of 189.35 feet to a computed point.

Thence, S 61° 16' 02" E for a distance of 136.62 feet to a 5/8" iron pin found.

Thence, N 25° 15' 32" E for a distance of 188.96 feet to a 5/8" iron pin found.

Thence, N 21° 22' 57" E for a distance of 223.96 feet to a 5/8" iron pin found.

Thence, N 09° 24' 37" E for a distance of 248.07 feet to a 5/8" iron pin found.

Thence, N 01° 02' 06" W for a distance of 181.05 feet to a 5/8" iron pin found.

Thence, N 15° 43' 05" W for a distance of 256.06 feet to a 5/8" iron pin found.

Thence, N 19° 40' 03" W for a distance of 696.21 feet to a computed point.

Thence, N 8° 22' 55" W for a distance of 3.53 feet to a computed point.

Thence, N 7° 16' 11" E for a distance of 63.98 feet to a computed point.

Thence, N 0° 52' 49" E for a distance of 106.65 feet to a computed point.

Thence, N 2° 48' 47" E for a distance of 26.22 feet to a computed point.

Thence, N 9° 10' 07" E for a distance of 34.66 feet to a computed point.

Thence, N 2° 47' 29" W for a distanced of 39.39 feet to a computed point.

Thence, N 1° 44' 58" E for a distance of 29.78 feet to a computed point at the beginning of a non-tangential curve and the right-of way of Hillandale Drive.

Said curve turning to the left through an angle of 36° 56' 40", having a radius of 442.53 feet, and whose long chord bears S 78° 59' 55" E for a distance of 280.43 feet to a computed point along said right-of-way.

Thence, N 83° 36' 58" E for a distance of 186.08 feet to a computed point along right-of-way.

Thence, N 83° 28' 10" E for a distance of 199.87 feet to a computed point at the intersection of right-of-way of Hillandale Drive and Roberson Mill Road.

Thence, S 9° 33' 27" W for a distance of 72.81 feet to a computed point on right-of-way of Roberson Mill Road.

Thence, S 3° 36' 12" W for a distance of 174.11 feet to a 1" iron pipe found on right-of-way.

Thence, S 84° 38' 56" W for a distance of 199.69 feet to a 1" iron pipe found.

Thence, S 3° 44' 04" E for a distance of 50.07 feet to a 1" iron pipe found.

Thence, S 8° 54' 10" E for a distance of 149.68 feet to a 5/8" iron pin found.

Thence, S 14° 20' 14" E for a distance of 100.17 feet to a 1" iron pipe found.

Thence, N 84° 48' 20" E for a distance of 165.69 feet to a concrete monument found.

Thence, S 18° 44' 52" E for a distance of 605.74 feet to a 5/8" iron pin found.

Thence, S 69° 57' 10" W for a distance of 15.00 feet to a 5/8" iron found.

Thence, S 20° 46' 41" E for a distance of 40.09 feet to a concrete monument found.

Thence, N 70° 03' 38" E for a distance of 14.62 feet to a concrete monument found.

Thence, s 25° 57' 36" E for a distance of 124.64 feet to a 1/2" iron pin set.

Thence, S 59° 03' 47" W for a distance of 161.53 feet to a 5/8" iron pin found.

Thence, S 58° 59' 19" W for a distance of 267.62 feet to a 1/2" iron pin found.

Thence, S 18° 34' 41" E for a distance of 85.08 feet to a 1/2" iron pin found.

Thence, S 23° 24' 32" E for a distance of 250.49 feet to a 1" iron pipe found.

Thence, S 44° 55' 16" W for a distance of 551.50 feet to a 5/8" iron pin found.

Thence, S 44° 54' 10" W for a distance of 316.85 feet to a concrete monument found at the right-of way of Georgia State Route #22, which is the Point of Beginning.

Said Tract 2 having an area of 31.704 Acres.

AS-SURVEYED DESCRIPTION (TRACT 3)

All that tract or parcel of land lying in the 318th G. M. District of Baldwin County, Georgia, more particularly described as followed:

From the Point of Beginning which is a 5/8" iron pin found at the south westerly corner of property

Thence N 19° 40' 03" W a distance of 696.21 feet to a computed point in center of creek.

Thence, S 58° 20' 28" E for a distance of 22.33 feet to a 5/8" iron pin found.

Thence, S 53° 37' 17" E for a distance of 86.48 feet to a 5/8" iron pin found.

Thence, S 51° 06' 29" E for a distance of 113.74 feet to a 5/8" iron pin found.

Thence, S 42° 09' 23" E for a distance of 111.85 feet to a 5/8" iron pin found.

Thence, S 46° 20' 35" E for a distance of 101.81 feet to a 5/8" iron pin found.

Thence, S 35° 57' 01" E for a distance of 205.22 feet to a 5/8" iron pin found.

Thence, S 22° 51' 57" E for a distance of 97.60 feet to a 5/8" iron pin found.

Thence, S 65° 52' 56" W for a distance of 273.88 feet to a 5/8" iron pin found

Which is the Point of Beginning.

Said Tract 3 having an area of 2.752 Acres.

EXHIBIT "B"

PERMITTED EXCEPTIONS

1. All applicable, city, state and county real and personal property taxes for the year 2018 and subsequent years, a lien not yet due and payable.
2. Sewer Easement in favor of Old Capital Investment Group, LLC dated January 26, 2005, recorded in Deed Book 754, Pages 66-67, said records.
3. Sewer Easement in favor of G. Goldstein & Sons, Inc. dated January 26, 2005, recorded in Deed Book 754, Pages 64-65, said records.
4. Indemnity Agreement between C. Goldstein and Sons, Inc. and Georgia Department of Transportation dated May 19, 1992, recorded in Deed Book 312, Page 437-438, said records.
5. Department of Transportation Construction & Maintenance Agreement dated May 19, 1992, recorded in Deed Book 312, Pages 435-436, said records.
6. Permit for Anchors, Guy Poles and Wires in favor of Georgia Power Company recorded in Deed Book 253, Pages 746-747, said records.
7. Right of Way Deed in favor of Department of Transportation dated November 10, 1987, recorded in Deed Book 237, Pages 390-394, said records.
8. Right of Way Deed in favor of Department of Transportation dated November 10, 1987, recorded in Deed Book 237, Pages 385-389, said records.
9. Right of Way Deed in favor of Department of Transportation dated April 11, 1986, recorded in Deed Book 211, Pages 142-145, said records.
10. Easement in favor of The May and Aldermen of The City of Milledgeville dated July 19, 1974, recorded in Deed Book 119, Pages 257-259, said records.
11. Right of Way Deed in favor of Baldwin County, Georgia dated February 28, 1973, recorded in Deed Book 64, Pages 492-493, said records.
12. Right of Way Deed in favor of Baldwin County, Georgia dated January 15, 1968, recorded in Deed Book 81, Pages 455-456, said records.
13. Right of Way Deed in favor of The County of Baldwin dated June 26, 1954, recorded in Deed Book 46, Page 269, said records.
14. Easement in favor of Georgia Power Company dated October 24, 1955, recorded in Deed Book 40, Page 566, said records.

15. Easement in favor of Georgia Power Company dated June 28, 1954, recorded in Deed Book 40, Page 366, said records.
16. Easement in favor of Georgia Power Company dated June 16, 1953, recorded in Deed Book 40, Page 286, said records.
17. Right of Way Deed in favor of Baldwin County, Georgia dated September 7, 1946, recorded in Deed Book 36, Pages 408-409, said records.

APPENDIX B
Professional Geologist Summary of Hours

12:56 PM
05/01/18

Environmental Planning Specialists, Inc.
Rheem Manufacturing PG Hours (Justin Vickery)
November 2017 through April 2018

	<u>Nov 17</u>	<u>Dec 17</u>	<u>Jan 18</u>	<u>Feb 18</u>	<u>Mar 18</u>	<u>Apr 18</u>	<u>TOTAL</u>
Total Hours Per Month	<u>110.00</u>	<u>55.00</u>	<u>86.00</u>	<u>39.75</u>	<u>116.50</u>	<u>67.75</u>	<u>475.00</u>

APPENDIX C
Milestone Schedule

PROJECTED MILESTONE SCHEDULE
Rheem Manufacturing Company
Milledgeville, GA

ID	Task Name	2013	2014				2015				2016				2017				2018		
		Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
1	VRP Enrollment																				
2	Cost Estimate																				
3	Financial Assurance																				
4	Updated Financial Assurance																				
5	Soil Delineation (completed prior to VRP enrollment)*																				
6	On-site Horizontal Groundwater Delineation (completed prior to VRP enrollment)*																				
7	Off-site Horizontal Groundwater Delineation																				
8	Vertical Groundwater Delineation (if necessary)																				
9	Semi-Annual Progress Reports																				
10	Updated CSM, Final Remediation Plan, and Preliminary Cost Estimate																				
11	Remedial Activities																				
12	Compliance Status Report																				

Notes: Dark gray shading indicates portion of schedule that has passed.
 Planned activity
 Activity completed/conducted to date

* Documented in the Voluntary Remediation Program Application Update 1, October 2012

APPENDIX D
Draft Environmental Covenant

After Recording Return to:
Andrea Rimer
Troutman Sanders LLP
600 Peachtree Street, Suite 3000
Atlanta, Georgia 30308

CROSS-REFERENCE:
County: Baldwin
Deed Book: 1044
Page(s): 396-399

Environmental Covenant

This instrument is an Environmental Covenant executed pursuant to the Georgia Uniform Environmental Covenants Act, O.C.G.A. § 44-16-1 *et seq.*, as may be amended from time to time (hereinafter “Act”). This Environmental Covenant is entered into by the entities executing this Environmental Covenant and subjects the property identified below to the activity and/or use limitations and other requirements. This Environmental Covenant further grants such other rights in favor of EPD and Rheem Manufacturing Company as set forth herein.

Fee Simple Owner(s)/Grantor(s): Rheem Manufacturing Company
1100 Abernathy Road NE, Suite 1700
Atlanta, Georgia 30328

Grantee/Holder with the power to enforce: Rheem Manufacturing Company
1100 Abernathy Road NE, Suite 1700
Atlanta, Georgia 30328

Grantee/Entity with express power to enforce: State of Georgia
Department of Natural Resources
Environmental Protection Division
2 Martin Luther King Jr. Drive, SE
Suite 1456 East Tower
Atlanta, GA 30334

Persons with Interests other than Fee Simple: *[Pending]*

Property Subject

The property subject to this Environmental Covenant is a tract of approximately 41.13 acres of real property located at 138 Roberson Mill Road in Milledgeville, Baldwin County, Georgia, which is further identified by the tax parcel ID number below (hereinafter “Property”). The Property was conveyed on December 22, 2010 to Rheem Manufacturing Company; such conveyance is recorded in Deed Book 1044, Pages 396-399, of the Baldwin County, Georgia

deed records. The Property is located in Land Lot 296 and 297 of the 1st Land District, 318th G.M.D. of Baldwin County, Georgia.

The tax parcel of the Property: M52 001 of Baldwin County, Georgia.

A legal description of the Property is attached as Exhibit A and a map of the Property is attached as Exhibit B.

Environmental Covenant Runs with the Land and is Perpetual

Pursuant to the Act, this Environmental Covenant shall run with the land and shall be perpetual unless terminated or amended pursuant to terms herein or in accordance with provisions of the Act. This Environmental Covenant shall be binding upon Rheem Manufacturing Company, and all successors, assigns and transferees of any interest in the Property or any portion thereof.

Administrative Records

This Environmental Covenant imposes activity and/or use limitations and other requirements on the Property that arise under corrective action performed and/or being performed at the Rheem Manufacturing Company facility/site. Records pertaining to this corrective action are available at the following EPD location:

Georgia Environmental Protection Division
Response and Remediation Program
2 MLK Jr. Drive, SE, Suite 1054 East Tower
Atlanta, GA 30334
M-F 8:00 AM to 4:30 PM excluding state holidays

Activity and Use Limitations. The Property is subject to the following activity and/or use limitations:

- A. Real Property. The Property shall be used only as non-residential property as defined in Rule 391-3-19-.02(2)(r). Use of the Property as residential property, as defined in Rule 391-3-19-.02(2)(r), is prohibited.
- B. Groundwater. The use or extraction of groundwater beneath the Property for drinking water or any other non-remedial purpose is prohibited.
- C. Vapor Mitigation. A vapor mitigation system or barrier shall be installed with the future construction of any enclosed structure on the Property, unless and until either: (a) the HSRA regulated substances in groundwater reach HSRA Risk Reduction Standards, or (b) a vapor intrusion exposure pathway evaluation is performed and EPD provides written concurrence that that no vapor mitigation system or barrier is required with respect to the structure. A maintenance and monitoring plan, approved by EPD, shall be maintained with respect to any sub-slab depressurization (SSD) system currently present or required to be installed at the Property.

Other Requirements. The Property is subject to the following additional requirements.

- A. Notice of Limitations and Requirements in Future Conveyances. Each instrument hereafter conveying any interest in the Property or any portion thereof that may

affect the activity and use limitations described herein shall include a statement that the Property is subject to this Environmental Covenant (and any amendments thereto), the location (County, Deed Book and Page) in the deed records where this Environmental Covenant (and any amendments thereto) is recorded and a copy of this Environmental Covenant (and any amendments thereto).

- B. Notice to EPD of Future Conveyances. Within thirty (30) days after each conveyance of a fee simple interest in the Property or any portion thereof, a notice shall be sent to EPD and Rheem Manufacturing Company. The notice shall include the new owner's name, address, telephone number and other pertinent contact information, the date of the conveyance and the location (County, Deed Book and Page) where the conveyance is recorded, and, if the conveyance is a portion of the Property, a survey map showing the boundaries of the real property conveyed.
- C. Notice of Change of Use. If such activity will materially affect any required monitoring or maintenance of any institutional or engineering controls described herein, the owner of the Property must provide to EPD thirty (30) days' advance written notice of the owner's intent to change the use of the Property, to apply for a building permit for construction at the Property, or to perform any site work.

Environmental Covenant Does Not Authorize Use Otherwise Prohibited

Pursuant to the Act, this Environmental Covenant shall not be construed to authorize a use of the Property that is otherwise prohibited by zoning, ordinance, local law or general law or by a recorded instrument that has priority over this Environmental Covenant.

Rights of Access and Enforcement

Authorized representatives of EPD and Rheem Manufacturing Company shall have the right to enter the Property at reasonable times in connection with implementation, compliance, or enforcement of this Environmental Covenant, including but not limited to the right to conduct inspections, examine related records, or to take samples.

This Environmental Covenant shall be enforceable by EPD, Rheem Manufacturing Company and other parties as provided in the Act. Such rights of access and enforcement herein shall not limit EPD's authority under other applicable law.

No Interest in Real Property in EPD

EPD's rights under this Environmental Covenant and the Act shall not be considered an interest in real property.

Recording of Environmental Covenant and Service on Other Persons

Within thirty (30) days after execution of this Environmental Covenant by the Director of EPD, Rheem Manufacturing Company shall record the Environmental Covenant in every county in which any portion of the Property is located in accordance with the law governing the recording

and priority of interests in real property. Upon recording of the Environmental Covenant, Rheem Manufacturing Company shall provide in a manner deemed acceptable by EPD a copy of the executed, recorded Environmental Covenant to each of the persons or entities identified in O.C.G.A. § 44-16-7.

Representations and Warranties by Grantor(s). Rheem Manufacturing Company represents and warrants that all of the following are true and correct:

- A. Rheem Manufacturing Company holds fee simple title to the Property.
- B. Rheem Manufacturing Company has the authority to enter into this Environmental Covenant, has the authority to grant any rights granted by it within, has the ability to carry out the obligations described within and, based upon information and belief after reasonable inquiry, does not know of any anticipated material change in the practices, ownership, or authority of Rheem Manufacturing Company that will alter this representation and warranty.
- C. The execution and delivery of this Environmental Covenant and carrying out the obligations described within will not conflict with any of the provisions of the organizational documents, operating agreement of Rheem Manufacturing Company nor will it violate, contravene and/or constitute a breach or default under any agreement, contract, order or instrument to which Rheem Manufacturing is a party or by which Rheem Manufacturing Company may be bound.
- D. There are no persons with existing interests other than fee simple in the Property.
- E. This Environmental Covenant does not authorize a use of the Property that is otherwise prohibited by zoning, ordinance, local law or general law or by a recorded instrument that has priority over this Environmental Covenant.
- F. At least thirty (30) days prior to presenting this Environmental Covenant to EPD for execution, Rheem Manufacturing Company served a copy of the proposed final text of this Environmental Covenant on all persons or entities required to be noticed in accordance with O.C.G.A. § 44-16-7.

Submission of Required Documents and Communications

Documents and communications required by this Environmental Covenant shall be submitted to:

Georgia Environmental Protection Division
Branch Chief
Land Protection Branch
2 Martin Luther King Jr. Drive SE
Suite 1054 East Tower
Atlanta, GA 30334

With a copy to:

Rheem Manufacturing Company
c/o Mr. Gregory Henry
1100 Abernathy Road NE, Suite 1700

Atlanta, Georgia 30328

EPD's Environmental Covenants Registry

This Environmental Covenant and any amendment thereto or termination thereof may be included in EPD's registry for environmental covenants.

Severability

Should any provision of this Environmental Covenant be found by a court of competent jurisdiction to be invalid and/or unenforceable in any respect, the remaining provisions shall continue in full force and effect.

Effective Date

This Environmental Covenant shall be effective on the date the fully executed Environmental Covenant is recorded in accordance with O.C.G.A. § 44-16-8(a).

Signed, sealed, and delivered in the presence of:

For the Grantor:

Unofficial Witness (*Signature*)

Rheem Manufacturing Company
Name of Grantor (*Print*)

Unofficial Witness Name (*Print*)

Grantor's Authorized Representative
(*Signature*)

Authorized Representative Name (*Print*)

Title of Authorized Representative (*Print*)

Notary Public (*Signature*)

Dated: _____

My Commission Expires: _____

(NOTARY SEAL)

Signed, sealed, and delivered in the presence of:

For the Grantee:

Unofficial Witness (*Signature*)

Rheem Manufacturing Company
Name of Grantee (*Print*)

Unofficial Witness Name (*Print*)

Grantee's Authorized Representative
(*Signature*)

Authorized Representative Name (*Print*)

Title of Authorized Representative (*Print*)

Notary Public (*Signature*)

Dated: _____

My Commission Expires:

(NOTARY SEAL)

For the Environmental Protection Division, Department of Natural Resources, State of Georgia,
this _____ day of _____, 20_____:

Signed, sealed, and delivered in the presence
of:

**For the State of Georgia
Environmental Protection Division:**

Unofficial Witness (*Signature*)

(*Signature*)

(Seal)

Unofficial Witness Name (*Print*)

Richard E. Dunn
Director

Notary Public (*Signature*)

Dated: _____

My Commission Expires: _____

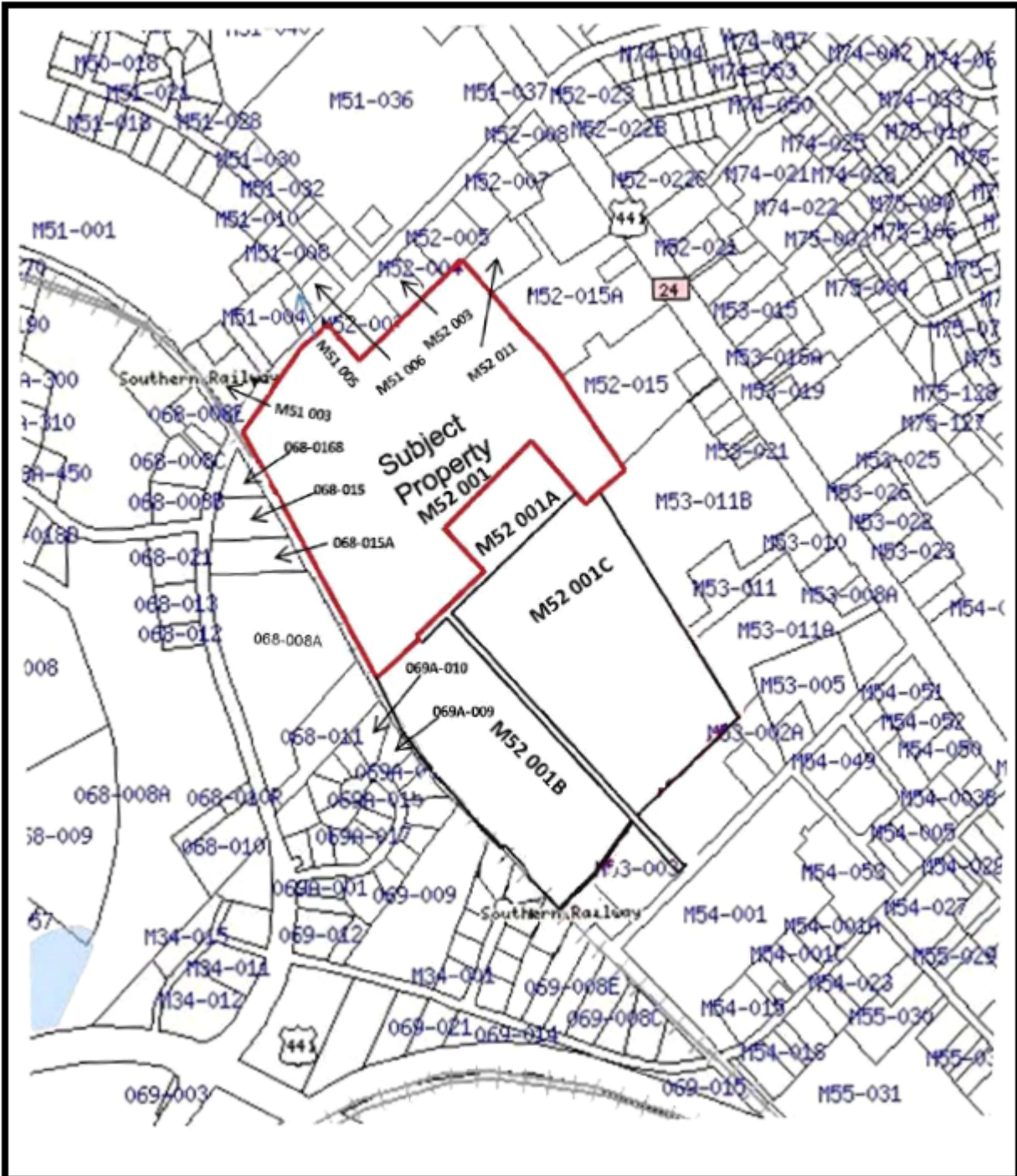
(NOTARY SEAL)

Exhibit A
Legal Description of Property

All of Tract 1, as depicted on Survey of Property for Rheem Manufacturing Company, a plat of which is of record in Plat Book 37, Pages 50-51, recorded with the Clerk of Superior Court of Baldwin County, Georgia, Tract 1 being more particularly described as follows:

All that tract or parcel of land lying and being in Land Lots 296 and 297, First Land District, 3181 G.M.D. in Baldwin County, Georgia and being more particularly described as follows: Beginning at the P.O.B. of Tract 1; thence S 45°49'00" E a distance of 250.00' to a 1/2" rebar found; thence N 44°09'58" E a distance of 710.01' to a computed point; thence S 46°15'34" E a distance of 226.81' to a 1/2" rebar found; thence S 45°59'15" E a distance of 486.62" to a 1/2" rebar found; thence S 38°01'04" E a distance of 608.66' to a 1/2" rebar found; thence S 53°24'40" W a distance of 145.78' to a 5/8" rebar found; thence S 45°09'21" W a distance of 94.54' to a 1/2" rebar set; thence N 45°41'09" W a distance of 121.59' to a nail set in washer; thence N 45°36'40" W a distance of 88.99' to a fence post; thence N 45°43'11" W a distance of 196.06' to a fence post; thence S 44°11'14" W a distance of 613.36' to a fence post; thence S 45°21'01" E a distance of 266.17' to a fence post; thence S 45°17'46" E a distance of 17.46' to a chiseled "X"; thence S 44°18'53" W a distance of 254.37' to a computed point; thence S 44°19'29" W a distance of 192.10' to a computed point; thence S 44°19'09" W a distance of 296.00' to a 1/2" rebar set; thence N 32°45'36" W a distance of 460.26' to a 1" iron pipe; thence N 32°45'36" W a distance of 894.28' to a 1/2" rebar set; thence N 31°35'12" E a distance of 125.98' to a computed point; thence with a curve turning to the right with an arc length of 542.43', with a radius of 1869.86', with a chord bearing of N 36°48'05" E, with a chord length of 540.53' to a 1/2" rebar found, which is the point of beginning, having an area of 41.13 acres.

Exhibit B
Map of Property



APPENDIX E
Risk Reduction Standards

Table E1. Georgia Specific Values

Parameter	CAS #	NC (mg/kg)	Table 2 Soil (mg/kg)	Table 1 GW (mg/L)	GA MCL (mg/L)
1,1,1-Trichloroethane	71-55-6	5.44		0.2	0.2
1,1,2,2-Tetrachloroethane	79-34-5	0.13		0.0002	
1,1,2-Trichloroethane	79-00-5	0.5		0.005	0.005
1,1-Dichloroethane	75-34-3	0.03		4	
1,1-Dichloroethene	75-35-4	0.36		0.007	0.007
1,2-Dichloroethane	107-06-2	0.02		0.005	0.005
1,2-Dichloropropane	78-87-5	0.02		0.005	0.005
2-Butanone (MEK)	78-93-3	0.79		2	
4-Methyl-2-pentanone	108-10-1	3.3		2	
Acetone	67-64-1	2.74		4	
Benzene	71-43-2	0.02		0.005	0.005
Bromoform	75-25-2	1		0.08	
Carbon disulfide	75-15-0			4	
Carbon tetrachloride	56-23-5	0.17		0.005	0.005
Chloroform	67-66-3	0.68		0.08	
Chloromethane	74-87-3	0.04		0.003	
cis-1,2-Dichloroethene	156-59-2	0.53		0.07	0.07
Dibromochloromethane	124-48-1	1.63		0.08	
Dichlorobromomethane	75-27-4	1.18		0.08	
Dichloromethane	75-09-2	0.08		0.005	0.005
Ethyl benzene	100-41-4	20		0.7	0.7
Freon-12	75-71-8	1.49		1	
Isopropylbenzene	98-82-8	21.88			
m-Xylene	108-38-3	20			
o-Xylene	95-47-6	20			
p-Xylene	106-42-3	20			
Tetrachloroethene	127-18-4	0.18		0.005	0.005
Toluene	108-88-3	14.4		1	1
trans-1,2-Dichloroethene	156-60-5	0.53		0.1	0.1
Trichloroethene	79-01-6	0.13		0.005	0.005
Vinyl chloride	75-01-4	0.04		0.002	0.002
Xylenes	1330-20-7	20			10

HSRA: Hazardous Site Response Act's Hazardous Site Response Rules ("Rules")

NC: Notification Concentration - Appendix I of the Rules

Table 2 Soil: Appendix III Table 2 of the Rules

Table 1 GW: Appendix III Table 1 of the Rules

GA MCL: Georgia Maximum Contaminant Level (Rules for Safe Drinking Water)

Table E2. Physical-Chemical Parameters

Analyte	CAS	Organic Carbon Partition Coefficient (K _{oc}) (cm ³ /g)	Diffusivity in air (D _a) (cm ² /s)	Henry's Law Constant (H') (unitless)	Henry's Law Constant at reference temperature of 25C (H) (atm-m ³ /mol)	Volatile	Dei = Da x E ^{0.33}	Kd* = Koc x OC	Kas =(H/Kd) x 41	α cm ² /s	VF m ³ /kg
1,1,1-Trichloroethane	71-55-6	4.4E+01	EPI 6.5E-02	WATER9 7.0E-01	1.7E-02	PHYSPROP	V 0.045838887	0.8778	0.803372067	0.00643	1546
1,1,2,2-Tetrachloroethane	79-34-5	9.5E+01	EPI 4.9E-02	WATER9 1.5E-02	3.7E-04	PHYSPROP	V 0.034596664	1.8988	0.007924479	0.00006	19307
1,1,2-Trichloroethane	79-00-5	6.1E+01	EPI 6.7E-02	WATER9 3.4E-02	8.2E-04	PHYSPROP	V 0.047304913	1.214	0.027828666	0.00027	8793
1,1-Dichloroethane	75-34-3	3.2E+01	EPI 8.4E-02	WATER9 2.3E-01	5.6E-03	PHYSPROP	V 0.059153489	0.6364	0.362067882	0.00405	2110
1,1-Dichloroethene	75-35-4	3.2E+01	EPI 8.6E-02	WATER9 1.1E+00	2.6E-02	PHYSPROP	V 0.061038956	0.6364	1.681489629	0.01554	862
1,2-Dichloroethane	107-06-2	4.0E+01	EPI 8.6E-02	WATER9 4.8E-02	1.2E-03	PHYSPROP	V 0.060622697	0.792	0.061085859	0.00074	5225
1,2-Dichloropropane	78-87-5	6.1E+01	EPI 7.3E-02	WATER9 1.2E-01	2.8E-03	PHYSPROP	V 0.051866214	1.214	0.09523888	0.00098	4509
2-Butanone (MEK)	78-93-3	4.5E+00	EPI 9.1E-02	WATER9 2.3E-03	5.7E-05	PHYSPROP	V 0.064670783	0.0902	0.025863636	0.00034	7802
4-Methyl-2-pentanone	108-10-1	1.3E+01	EPI 7.0E-02	WATER9 5.6E-03	1.4E-04	EPI	V 0.049348227	0.252	0.022452381	0.00022	9590
Acetone	67-64-1	2.4E+00	EPI 1.1E-01	WATER9 1.4E-03	3.5E-05	PHYSPROP	V 0.07490772	0.04728	0.0303511	0.00046	6689
Benzene	71-43-2	1.5E+02	EPI 9.0E-02	WATER9 2.3E-01	5.6E-03	PHYSPROP	V 0.063318474	2.916	0.078034979	0.00099	4516
Bromoform	75-25-2	3.2E+01	EPI 3.6E-02	WATER9 2.2E-02	5.4E-04	PHYSPROP	V 0.025269965	0.6364	0.034467316	0.00018	10803
Carbon disulfide	75-15-0	2.2E+01	EPI 1.1E-01	WATER9 5.9E-01	1.4E-02	PHYSPROP	V 0.075272494	0.4346	1.358490566	0.01628	886
Carbon tetrachloride	56-23-5	4.4E+01	EPI 5.7E-02	WATER9 1.1E+00	2.8E-02	PHYSPROP	V 0.040411902	0.8778	1.289131921	0.00839	1248
Chloroform	67-66-3	3.2E+01	EPI 7.7E-02	WATER9 1.5E-01	3.7E-03	PHYSPROP	V 0.054397637	0.6364	0.236439346	0.00249	2756
Chloromethane	74-87-3	1.3E+01	EPI 1.2E-01	WATER9 3.6E-01	8.8E-03	PHYSPROP	V 0.08766816	0.2644	1.367700454	0.01907	817
cis-1,2-Dichloroethene	156-59-2	4.0E+01	EPI 8.8E-02	WATER9 1.7E-01	4.1E-03	PHYSPROP	V 0.062520469	0.792	0.211212121	0.00257	2726
Dibromochloromethane	124-48-1	3.2E+01	EPI 3.7E-02	WATER9 3.2E-02	7.8E-04	PHYSPROP	V 0.025908708	0.6364	0.050444689	0.00026	8805
Dichlorobromomethane	75-27-4	3.2E+01	EPI 5.6E-02	WATER9 8.7E-02	2.1E-03	PHYSPROP	V 0.039789141	0.6364	0.136580767	0.00107	4281
Dichloromethane	75-09-2	2.2E+01	EPI 1.0E-01	WATER9 1.3E-01	3.3E-03	PHYSPROP	V 0.070674914	0.4346	0.306603774	0.00414	2109
Ethyl benzene	100-41-4	4.5E+02	EPI 6.8E-02	WATER9 3.2E-01	7.9E-03	PHYSPROP	V 0.048418612	8.922	0.036211612	0.00035	7613
Freon-12	75-71-8	4.4E+01	EPI 7.6E-02	WATER9 1.4E+01	3.4E-01	PHYSPROP	V 0.053767946	0.8778	16.02073365	0.04113	167
Isopropylbenzene	98-82-8	7.0E+02	EPI 6.0E-02	WATER9 4.7E-01	1.2E-02	PHYSPROP	V 0.042647292	13.956	0.033784752	0.00029	8400
m-Xylene	108-38-3	3.8E+02	EPI 6.8E-02	WATER9 2.9E-01	7.2E-03	PHYSPROP	V 0.048348387	7.506	0.039219291	0.00038	7318
o-Xylene	95-47-6	3.8E+02	EPI 6.9E-02	WATER9 2.1E-01	5.2E-03	PHYSPROP	V 0.048740317	7.658	0.02773309	0.00027	8678
p-Xylene	106-42-3	3.8E+02	EPI 6.8E-02	WATER9 2.8E-01	6.9E-03	PHYSPROP	V 0.048265362	7.506	0.037689848	0.00037	7473
Tetrachloroethene	127-18-4	9.5E+01	EPI 5.0E-02	WATER9 7.2E-01	1.8E-02	PHYSPROP	V 0.035689855	1.8988	0.382188751	0.00257	2639
Toluene	108-88-3	2.3E+02	EPI 7.8E-02	WATER9 2.7E-01	6.6E-03	PHYSPROP	V 0.055022944	4.678	0.05819581	0.00064	5621
trans-1,2-Dichloroethene	156-60-5	4.0E+01	EPI 8.8E-02	WATER9 3.8E-01	9.4E-03	PHYSPROP	V 0.061957397	0.792	0.485580808	0.00556	1760
Trichloroethene	79-01-6	6.1E+01	EPI 6.9E-02	WATER9 4.0E-01	9.9E-03	PHYSPROP	V 0.048557648	1.214	0.332660626	0.00307	2436
Vinyl chloride	75-01-4	2.2E+01	EPI 1.1E-01	WATER9 1.1E+00	2.8E-02	PHYSPROP	V 0.075755441	0.4346	2.622641509	0.02634	580
Xylenes	1330-20-7	3.8E+02	EPI 6.9E-02	WATER9 2.7E-01	6.6E-03	PHYSPROP	V 0.048453689	7.658	0.035496213	0.00035	7687

EPI: EPA's Estimation Programs Interface Suite

WATER9: EPA's WATER9 Program

PHYSPROP: Syracuse Research Corporation PHYSPROP Database. 2005

$$VF (m^3/kg) = \frac{(LS \times V \times DH)}{A} \times \frac{(\pi \times \alpha \times T)^{1/2}}{(2 \times D_{ei} \times E \times K_{oc} \times 10^{-3} \text{ kg/g})}$$

LS = 45 m length of side of contaminated area
 V = 2.25 m/s wind speed in mixing zone
 DH = 2 m diffusion height
 A = 20300000 cm² area of contamination
 π = 3.14
 $D_{ei} = D_a \times E^{0.33}$ cm²/s effective diffusivity
 D_a = Chemical specific molecular diffusivity (cm²/s)
 E = 0.35 total soil porosity
 ρ_s = 2.65 g/m³ density of soil solids
 Kas = (H/Kd) x 41 soil/air partition coefficient (g soil/cm³ air)
 H = Chemical specific Henry's law constant (atm-m³/mol)
 Kd = Koc x OC soil-water partition coefficient
 Koc = Chemical specific organic carbon partition coefficient
 OC = 0.02 soil organic carbon content fraction
 T = 790000000 s exposure interval

Table E3. Toxicity Factors

Analyte	CAS	NonCancer Toxicity Values			Cancer Toxicity Values			Cancer Class	VOC
		Oral RfD	Inhalation RFC	Inhalation RfD	Oral CSF	Inhalation Unit Risk	Inhalation CSF		
		mg/kg-day	mg/m3	mg/kg-day	per mg/kg-day	per ug/m3	per mg/kg-day		
1,1,1-Trichloroethane	71-55-6	2	5	1.4				D	V
1,1,2,2-Tetrachloroethane	79-34-5	0.02			0.2	0.000058	0.203	C	V
1,1,2-Trichloroethane	79-00-5	0.004	0.0002	5.714E-05	0.057	0.000016	0.056	C	V
1,1-Dichloroethane	75-34-3	0.2			0.0057	0.0000016	0.0056	C	V
1,1-Dichloroethene	75-35-4	0.05	0.2	0.057				C	V
1,2-Dichloroethane	107-06-2	0.006	0.007	0.002	0.091	0.000026	0.091	B2	V
1,2-Dichloropropane	78-87-5	0.04	0.004	0.0011	0.037	0.000037	0.1295		V
2-Butanone (MEK)	78-93-3	0.6	5	1.4					V
4-Methyl-2-pentanone	108-10-1		3	0.86					V
Acetone	67-64-1	0.9	31	8.9					V
Benzene	71-43-2	0.004	0.03	0.0086	0.055	0.0000078	0.0273	A	V
Bromoform	75-25-2	0.02			0.0079	0.0000011	0.00385	B2	V
Carbon disulfide	75-15-0	0.1	0.7	0.2					V
Carbon tetrachloride	56-23-5	0.004	0.1	0.029	0.07	0.000006	0.021	B2	V
Chloroform	67-66-3	0.01	0.098	0.028	0.031	0.000023	0.0805	B2	V
Chloromethane	74-87-3		0.09	0.026					V
cis-1,2-Dichloroethene	156-59-2	0.002							V
Dibromochloromethane	124-48-1	0.02			0.084			C	V
Dichlorobromomethane	75-27-4	0.02			0.062	0.000037	0.1295		V
Dichloromethane	75-09-2	0.006	0.6	0.17	0.002	1E-08	0.000035	B2	V
Ethyl benzene	100-41-4	0.1	1	0.29	0.011	0.0000025	0.00875		V
Freon-12	75-71-8	0.2	0.1	0.029					V
Isopropylbenzene	98-82-8	0.1	0.4	0.11					V
m-Xylene	108-38-3	0.2	0.1	0.029					V
o-Xylene	95-47-6	0.2	0.1	0.029					V
p-Xylene	106-42-3	0.2	0.1	0.029					V
Tetrachloroethene	127-18-4	0.006	0.04	0.011	0.0021	2.6E-07	0.00091	B	V
Toluene	108-88-3	0.08	5	1.4					V
trans-1,2-Dichloroethene	156-60-5	0.02							V
Trichloroethene	79-01-6	0.0005	0.002	0.00057	0.046	0.0000041	0.014	A	V
Vinyl chloride	75-01-4	0.003	0.1	0.029	0.72	0.0000044	0.015	A	V
Xylenes	1330-20-7	0.2	0.1	0.029					V

Values are from the EPA Regional Screening Level Summary Table (June 2017), except where noted

IRIS: Integrated Risk Information System (www.epa.gov/IRIS/)

Table E4. Groundwater Risk Calculations

Analyte	CAS	Volatile?	Oral CSF per mg/kg-day	Inhalation CSF per mg/kg-day	RAGS Eqn. 1								
					Adult			Child			Worker		
					Ingestion	Inhalation	Total	Ingestion	Inhalation	Total	Ingestion	Inhalation	Total
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
1,1,1-Trichloroethane	71-55-6	V											
1,1,2,2-Tetrachloroethane	79-34-5	V	0.2	0.20	0.0043	0.0011	0.00089	0.0091	0.0012	0.0011	0.014	0.0014	0.0013
1,1,2-Trichloroethane	79-00-5	V	0.057	0.056	0.015	0.0041	0.0032	0.032	0.0043	0.0038	0.050	0.0051	0.0046
1,1-Dichloroethane	75-34-3	V	0.0057	0.0056	0.15	0.041	0.032	0.32	0.043	0.038	0.50	0.051	0.046
1,1-Dichloroethene	75-35-4	V											
1,2-Dichloroethane	107-06-2	V	0.091	0.091	0.0094	0.0025	0.0020	0.020	0.0027	0.0024	0.031	0.0031	0.0029
1,2-Dichloropropane	78-87-5	V	0.037	0.1295	0.023	0.0018	0.0016	0.049	0.0019	0.0018	0.077	0.0022	0.0021
2-Butanone (MEK)	78-93-3	V											
4-Methyl-2-pentanone	108-10-1	V											
Acetone	67-64-1	V											
Benzene	71-43-2	V	0.055	0.027	0.015	0.0083	0.0054	0.033	0.0089	0.0070	0.052	0.010	0.0087
Bromoform	75-25-2	V	0.0079	0.0039	0.11	0.059	0.038	0.23	0.063	0.050	0.36	0.074	0.062
Carbon disulfide	75-15-0	V											
Carbon tetrachloride	56-23-5	V	0.07	0.021	0.012	0.011	0.0057	0.026	0.012	0.0080	0.041	0.014	0.010
Chloroform	67-66-3	V	0.031	0.0805	0.027	0.0028	0.0026	0.059	0.0030	0.0029	0.092	0.0036	0.0034
Chloromethane	74-87-3	V											
cis-1,2-Dichloroethene	156-59-2	V											
Dibromochloromethane	124-48-1	V	0.084		0.010		0.010	0.022		0.022	0.034		0.034
Dichlorobromomethane	75-27-4	V	0.062	0.13	0.014	0.0018	0.0016	0.029	0.0019	0.0018	0.046	0.0022	0.0021
Dichloromethane	75-09-2	V	0.002	0.000035	0.43	6.5	0.40	0.91	7.0	0.81	1.4	8.2	1.2
Ethyl benzene	100-41-4	V	0.011	0.0088	0.077	0.026	0.019	0.17	0.028	0.024	0.26	0.033	0.029
Freon-12	75-71-8	V											
Isopropylbenzene	98-82-8	V											
m-Xylene	108-38-3	V											
o-Xylene	95-47-6	V											
p-Xylene	106-42-3	V											
Tetrachloroethene	127-18-4	V	0.0021	0.00091	0.41	0.25	0.15	0.87	0.27	0.20	1.4	0.31	0.26
Toluene	108-88-3	V											
trans-1,2-Dichloroethene	156-60-5	V											
Trichloroethene	79-01-6	V	0.046	0.014	0.019	0.016	0.0085	0.040	0.017	0.012	0.062	0.020	0.015
Vinyl chloride	75-01-4	V	0.72	0.015	0.0012	0.015	0.0011	0.0025347	0.016	0.0022	0.0040	0.0185818	0.0032741
Xylenes	1330-20-7	V											

Table E4. Groundwater Risk Calculations

$$\text{Ingestion/Oral C (mg/kg)} = \frac{\text{TR} \times \text{BW} \times \text{AT}}{\text{EF} \times \text{ED} \times (\text{SFo} \times \text{IRw})}$$

$$\text{Inhalation C (mg/kg)} = \frac{\text{TR} \times \text{BW} \times \text{AT}}{\text{EF} \times \text{ED} \times (\text{SFi} \times \text{K} \times \text{IRa})}$$

Note: Inhalation pathway not calculated if not volatile

$$\text{RAGS Eqn 1} = \frac{\text{TR} \times \text{BW} \times \text{AT}}{\text{EF} \times \text{ED} \times [(\text{SFo} \times \text{IRw}) + (\text{SFi} \times \text{K} \times \text{IRa})]}$$

Parameter		Adult		Child		Worker	
		Value	Source	Value	Source	Value	Source
Body Weight, Adult (kg)	BW	70	1	15	2	70	1
Exposure Frequency, Resident Adult (d/yr)	EF	350	1	350	1	250	1
Exposure Duration, Resident Adult (yr)	ED	30	1	6	2	25	1
Soil Ingestion, Resident Adult (mg/d)	IRs	114	1	200	2	50	1
Water ingestion, Resident Adult (L/d)	IRw	2	1	1	1	1	1
Inhalation Rate, Resident Adult (m ³ /d)	IRa	15	1	15	2	20	1
Averaging Time, Cancer, Adult (d)	AT	25550	1	25550	1	25550	1
Target Risk	TR	1E-05	1	1E-05	1	1E-05	1
Water-to-air volatilization factor (L/m ³)	K	0.5	1	0.5	1	0.5	1
Particulate Emission Factor (m ³ /kg)	PEF	4630000000	1	4630000000	1	4630000000	1

Notes:

Source 1 - GaEPD Reg 391-3-19 Appendix III, Table 3

Source 2 - HSRA Guidance <http://www.georgiaepd.org/Documents/hsraguideCSRRRS.html>

Table E5. Groundwater Hazard Calculations

Analyte	CAS	Volatile?	Oral RfD	Inhalation RfD	RAGS Eqn. 2								
					Adult			Child			Worker		
					Ingestion	Inhalation	Total	Ingestion	Inhalation	Total	Ingestion	Inhalation	Total
					mg/kg-day	mg/kg-day	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
1,1,1-Trichloroethane	71-55-6	V	2	1.4	73	14	12	31	3.0	2.7	204	15	14
1,1,2,2-Tetrachloroethane	79-34-5	V	0.02		0.73		0.73	0.31		0.31	2.0		2.0
1,1,2-Trichloroethane	79-00-5	V	0.004	0.0	0.146	0.00056	0.00055	0.063	0.00012	0.00012	0.41	0.00058	0.00058
1,1-Dichloroethane	75-34-3	V	0.2		7.3		7.3	3.1		3.1	20.44		20.44
1,1-Dichloroethene	75-35-4	V	0.05	0.057	1.8	0.56	0.43	0.78	0.12	0.10	5.1	0.58	0.52
1,2-Dichloroethane	107-06-2	V	0.006	0.002	0.219	0.019	0.018	0.094	0.0042	0.0040	0.6132	0.020	0.020
1,2-Dichloropropane	78-87-5	V	0.04	0.0011	1.5	0.011	0.011	0.6	0.0024	0.0024	4.1	0.012	0.012
2-Butanone (MEK)	78-93-3	V	0.6	1.4	21.9	14	8.5	9.4	3.0	2.3	61.32	14.6	12
4-Methyl-2-pentanone	108-10-1	V		0.86			8.3	8.3	1.8	1.8		8.8	8.8
Acetone	67-64-1	V	0.9	8.9	32.85	86	24	14	18	8.0	92	91	46
Benzene	71-43-2	V	0.004	0.0086	0.146	0.083	0.053	0.063	0.018	0.014	0.4088	0.088	0.072
Bromoform	75-25-2	V	0.02		0.73		0.73	0.31		0.31	2.0		2.0
Carbon disulfide	75-15-0	V	0.1	0.2	3.7	1.9	1.3	1.6	0.42	0.33	10.22	2.0	1.7
Carbon tetrachloride	56-23-5	V	0.004	0.029	0.146	0.28	0.0957377	0.063	0.060	0.031	0.4088	0.29	0.17
Chloroform	67-66-3	V	0.01	0.028	0.365	0.27	0.16	0.16	0.058	0.043	1.0	0.29	0.22
Chloromethane	74-87-3	V		0.026		0.25	0.25		0.054	0.054		0.26	0.26
cis-1,2-Dichloroethene	156-59-2	V	0.002		0.073		0.073	0.031		0.031	0.2044		0.20
Dibromochloromethane	124-48-1	V	0.02		0.73		0.73	0.31		0.31	2.0		2.0
Dichlorobromomethane	75-27-4	V	0.02		0.73		0.73	0.31		0.31	2.0		2.0
Dichloromethane	75-09-2	V	0.006	0.17	0.219	1.7	0.19	0.094	0.36	0.074	0.6132	1.8	0.45
Ethyl benzene	100-41-4	V	0.1	0.29	3.7	2.8	1.6	1.6	0.60	0.43	10.22	2.9	2.3
Freon-12	75-71-8	V	0.2	0.029	7.3	0.28	0.27	3.1	0.060	0.058	20.44	0.29	0.29
Isopropylbenzene	98-82-8	V	0.1	0.11	3.7	1.1	0.85	1.6	0.24	0.21	10.22	1.2	1.0
m-Xylene	108-38-3	V	0.2	0.029	7.3	0.28	0.27	3.1	0.060	0.058	20.44	0.29	0.29
o-Xylene	95-47-6	V	0.2	0.029	7.3	0.28	0.27	3.1	0.060	0.058	20.44	0.29	0.29
p-Xylene	106-42-3	V	0.2	0.029	7.3	0.28	0.27	3.1	0.060	0.058	20.44	0.29	0.29
Tetrachloroethene	127-18-4	V	0.006	0.011	0.219	0.11	0.074	0.094	0.024	0.019	0.6132	0.12	0.098
Toluene	108-88-3	V	0.08	1.4	2.92	14	2.4	1.3	3.0	0.88	8.2	15	5.2
trans-1,2-Dichloroethene	156-60-5	V	0.02		0.73		0.73	0.31		0.31	2.044		2.0
Trichloroethene	79-01-6	V	0.0005	0.00057	0.018	0.0056	0.0043	0.0078	0.0012	0.0010	0.051	0.0058	0.0052
Vinyl chloride	75-01-4	V	0.003	0.029	0.1095	0.28	0.079	0.047	0.060	0.026	0.31	0.29	0.15
Xylenes	1330-20-7	V	0.2	0.029	7.3	0.28	0.27	3.128571	0.060	0.058	20.44	0.29	0.29

Table E5. Groundwater Hazard Calculations

$$\text{Ingestion/Oral C (mg/kg)} = \frac{\text{THI} \times \text{BW} \times \text{AT}}{\text{EF} \times \text{ED} \times (1/\text{RfDo} \times \text{IRw})}$$

$$\text{Inhalation C (mg/kg)} = \frac{\text{THI} \times \text{BW} \times \text{AT}}{\text{EF} \times \text{ED} \times (1/\text{RfDi} \times \text{K} \times \text{IRa})}$$

Note: Inhalation pathway not calculated if not volatile

$$\text{RAGS Eqn 2} = \frac{\text{THI} \times \text{BW} \times \text{AT}}{\text{EF} \times \text{ED} \times [(1/\text{RfDo} \times \text{IRw}) + (1/\text{RfDi} \times \text{K} \times \text{IRa})]}$$

Parameter		Adult		Child		Worker	
		Value	Source	Value	Source	Value	Source
Body Weight, Adult (kg)	BW	70	1	15	2	70	1
Exposure Frequency, Resident Adult (d/yr)	EF	350	1	350	1	250	1
Exposure Duration, Resident Adult (yr)	ED	30	1	6	2	25	1
Soil Ingestion, Resident Adult (mg/d)	IRs	114	1	200	2	50	1
Water ingestion, Resident Adult (L/d)	IRw	2	1	1	1	1	1
Inhalation Rate, Resident Adult (m ³ /d)	IRa	15	1	15	2	20	1
Averaging Time, Noncancer, Adult (d)	AT	10950	1	2190	1	9125	1
Target hazard quotient	THQ	1	1	1	1	1	1
Water-to-air volatilization factor (L/m ³)	K	0.5	1	0.5	1	0.5	1
Particulate Emission Factor (m ³ /kg)	PEF	4630000000	1	4630000000	1	4630000000	1

Exposure Duration x 365 days

Notes:

Source 1 - GaEPD Reg 391-3-19 Appendix III, Table 3

Source 2 - HSRA Guidance <http://www.georgiaepd.org/Documents/hsraguideCSRERS.html>

Table E6. Soil Risk Calculations

Analyte	CAS	Volatile?	VF	Oral CSF per mg/kg-day	Inhalation CSF per mg/kg-day	RAGS Eqn. 6											
						Adult			Child			Industrial Worker			Construction Worker		
						Ingestion	Inhalation	Total	Ingestion	Inhalation	Total	Ingestion	Inhalation	Total	Ingestion	Inhalation	Total
						mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
1,1,1-Trichloroethane	71-55-6	V	1546														
1,1,2-Trichloroethane	79-00-5	V	8793	0.057	0.056	262	18	17	160	19	17	1004	67	63			
1,1-Dichloroethene	75-35-4	V	862														
2-Butanone (MEK)	78-93-3	V	7802														
Acetone	67-64-1	V	6689														
Carbon tetrachloride	56-23-5	V	1248	0.07	0.021	213	6.7	6.5	130	7.2	6.8	818	25.5	24.7			
Chloroform	67-66-3	V	2756	0.031	0.081	482	3.9	3.9	294	4.2	4.1	1846	14.7	14.6			
cis-1,2-Dichloroethene	156-59-2	V	2726														
Dichlorobromomethane	75-27-4	V	4281	0.062	0.13	241	3.8	3.7	147	4.0	3.9	923	14.2	14.0			
Dichloromethane	75-09-2	V	2109	0.002	0.000035	7471	6842	3571	4563	7330	2812	28616	25861	13585			
Ethyl benzene	100-41-4	V	7613	0.011	0.00875	1358	99	92	830	106	94	5203	373	348			
Freon-12	75-71-8	V	167														
m-Xylene	108-38-3	V	7318														
o-Xylene	95-47-6	V	8678														
p-Xylene	106-42-3	V	7473														
Tetrachloroethene	127-18-4	V	2639	0.0021	0.00091	7115	329	315	4345	353	326	27253	1245	1190			
Toluene	108-88-3	V	5621														
trans-1,2-Dichloroethene	156-60-5	V	1760														
Trichloroethene	79-01-6	V	2436	0.046	0.01435	325	19	18	198	21	19	1244	73	69	9426	3644	2628

$$\text{Ingestion/Oral C (mg/kg)} = \frac{\text{TR} \times \text{BW} \times \text{AT}}{\text{EF} \times \text{ED} \times (\text{SFo} \times 10^{-6} \times \text{IRs})}$$

$$\text{Inhalation C (mg/kg)} = \frac{\text{TR} \times \text{BW} \times \text{AT}}{\text{EF} \times \text{ED} \times \text{ET} \times 1/24 \times (\text{SFi} \times \text{IRa} \times (1/\text{VF} + 1/\text{PE}))}$$

Note: VF not used if constituent is not volatile

$$\text{RAGS Eqn 7} = \frac{\text{TR} \times \text{BW} \times \text{AT} \times 24}{\text{EF} \times \text{ED} \times \text{ET} \times ((\text{SFo} \times 10^{-6} \times \text{IRs}) + (\text{SFi} \times \text{IRa} \times (1/\text{VF} + 1/\text{PEF}))}$$

Parameter		Adult		Child		Industrial Worker		Construction Worker	
		Value	Source	Value	Source	Value	Source	Value	Source
Body Weight, Adult (kg)	BW	70	1	15	2	70	1	70	1
Exposure Frequency, Resident Adult (d/yr)	EF	350	1	350	1	250	1	125	4
Exposure Duration, Resident Adult (yr)	ED	30	1	6	2	25	1	1	3
Exposure Time (hr/d)	ET	24	3	24	3	8	3	8	3
Soil Ingestion, Resident Adult (mg/d)	IRs	114	1	200	2	50	1	330	3
Water ingestion, Resident Adult (L/d)	IRw	2	1	1	1	1	1	1	1
Inhalation Rate, Resident Adult (m ³ /d)	IRa	15	1	15	2	20	1	20	1
Averaging Time, Cancer, Adult (d)	AT	25550	1	25550	1	25550	1	25550	1
Target Risk	TR	1.00E-05	1	1.00E-05	1	1.00E-05	1	1.00E-05	1
Water-to-air volatilization factor (L/m3)	K	0.5	1	0.5	1	0.5	1	0.5	1
Particulate Emission Factor (m3/kg)	PEF	4630000000	1	4630000000	1	4630000000	1	4630000000	1

Notes:

Source 1 - GaEPD Reg 391-3-19 Appendix III, Table 3

Source 3 - EPA RSL equations

Source 2 - HSRA Guidance <http://www.georgiaepd.org/Documents/hsraguideCSR.html>

Source 4 - Professional judgement and Virginia's VRP Risk Assessment Guidance

Table E7. Soil Hazard Calculations

Analyte	CAS	Volatile?	VF	Oral RfD	Inhalation RfD	RAGS Eqn. 7											
						Adult			Child			Industrial Worker			Construction Worker		
						Ingestion	Inhalation	Total	Ingestion	Inhalation	Total	Ingestion	Inhalation	Total	Ingestion	Inhalation	Total
						mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
1,1,1-Trichloroethane	71-55-6	V	1546	2	1.4	1280702	10747	10658	156429	2303	2270	4088000	33853	33575			
1,1,2-Trichloroethane	79-00-5	V	8793	0.004	5.714E-05	2561	2.4	2.4	313	0.5	0.5	8176	7.7	7.7			
1,1-Dichloroethene	75-35-4	V	862	0.05	0.057	32018	240	238	3911	51	51	102200	755	750			
2-Butanone (MEK)	78-93-3	V	7802	0.6	1.4	384211	54245	47534	46929	11624	9316	1226400	170872	149976			
Acetone	67-64-1	V	6689	0.9	8.9	576316	288339	192186	70393	61787	32905	1839600	908267	608053			
Carbon tetrachloride	56-23-5	V	1248	0.004	0.029	2561	174	162	313	37	33	8176	547	512			
Chloroform	67-66-3	V	2756	0.01	0.028	6404	376	355	782	80	73	20440	1183	1118			
cis-1,2-Dichloroethene	156-59-2	V	2726	0.002		1281		1281	156		156	4088		4088			
Dichlorobromomethane	75-27-4	V	4281	0.02		12807		12807	1564		1564	40880		40880			
Dichloromethane	75-09-2	V	2109	0.006	0.17	3842	1759	1207	469	377	209	12264	5542	3817			
Ethyl benzene	100-41-4	V	7613	0.1	0.29	64035	10585	9084	7821	2268	1758	204400	33344	28667			
Freon-12	75-71-8	V	167	0.2	0.029	128070	23	23	15643	5.0	5.0	408800	73	73			
m-Xylene	108-38-3	V	7318	0.2	0.029	128070	1018	1010	15643	218	215	408800	3205	3180			
o-Xylene	95-47-6	V	8678	0.2	0.029	128070	1207	1195	15643	259	254	408800	3801	3766			
p-Xylene	106-42-3	V	7473	0.2	0.029	128070	1039	1031	15643	223	220	408800	3273	3247			
Tetrachloroethene	127-18-4	V	2639	0.006	0.011	3842	147	141	469	31	29	12264	462	446			
Toluene	108-88-3	V	5621	0.08	1.4	51228	39077	22168	6257	8374	3581	163520	123094	70228			
trans-1,2-Dichloroethene	156-60-5	V	1760	0.02		12807		12807	1564		1564	40880		40880			
Trichloroethene	79-01-6	V	2436	0.0005	0.00057	320	6.8	6.6	39	1.5	1.4	1022	21.3	20.9	310	42.7	37.5

$$\text{Ingestion/Oral C (mg/kg)} = \frac{\text{THI} \times \text{BW} \times \text{AT}}{\text{EF} \times \text{ED} \times (1/\text{RfDo} \times 10^{-6} \times \text{IRs})}$$

$$\text{Inhalation C (mg/kg)} = \frac{\text{THI} \times \text{BW} \times \text{AT}}{\text{EF} \times \text{ED} \times \text{ET} \times 1/24 \times (1/\text{RfDi} \times \text{IRa} \times (1/\text{VF} + 1/\text{P}))}$$

Note: VF not used if constituent is not volatile

$$\text{RAGS Eqn 7} = \frac{\text{THI} \times \text{BW} \times \text{AT}}{\text{EF} \times \text{ED} \times [(1/\text{RfDo} \times 10^{-6} \times \text{IRs}) + (1/\text{RfDi} \times \text{IRa} \times (1/\text{VF} + 1/\text{PEF}))]}$$

Parameter		Adult		Child		Industrial Worker		Construction Worker	
		Value	Source	Value	Source	Value	Source	Value	Source
Body Weight, Adult (kg)	BW	70	1	15	2	70	1	70	1
Exposure Frequency, Resident Adult (d/yr)	EF	350	1	350	1	250	1	125	4
Exposure Duration, Resident Adult (yr)	ED	30	1	6	2	25	1	1	3
Exposure Time (hr/d)	ET	24	3	24	3	8	3	8	3
Soil Ingestion, Resident Adult (mg/d)	IRs	114	1	200	2	50	1	330	3
Water ingestion, Resident Adult (L/d)	IRw	2	1	1	1	1	1	1	1
Inhalation Rate, Resident Adult (m³/d)	IRa	15	1	15	2	20	1	20	1
Averaging Time, Noncancer, Adult (d)	AT	10950	1	2190	1	9125	1	365	1
Target hazard quotient	THQ	1	1	1	1	1	1	1	1
Water-to-air volatilization factor (L/m3)	K	0.5	1	0.5	1	0.5	1	0.5	1
Particulate Emission Factor (m3/kg)	PEF	463000000	1	463000000	1	463000000	1	463000000	1

Exposure Duration x 365 days

Notes:

Source 1 - GaEPD Reg 391-3-19 Appendix III, Table 3

Source 3 - EPA RSL equations

Source 2 - HSRA Guidance <http://www.georgiaepd.org/Documents/hsraguideCSRRRS.html>

Source 4 - Professional judgement and Virginia's VRP Risk Assessment Guidance

Table E8. Groundwater Residential Risk Reduction Standards

Analyte	CAS	TYPE 1 GW RRS				TYPE 2 GW RRS								Residential GW RRS - higher of Type 1 and 2 mg/L
		Rule 391-3-19-.07(6)(b) and Guidance: The lesser of Table 1 App III and GA MCL (or where NA, the higher of DL or Bkg)				Rule 391-3-19-.07(7)(b): The lesser of Items 1 and 2 (or where NA, the higher of Table 1 App III, background or DL)								
		Table 1, App III mg/L	GA MCL mg/L	Bkg* mg/L	Type 1 GW RRS mg/L	Item 1: RAGS Eqn 2 (NC)		Item 2: RAGS Eqn 1 (C)		Lesser of Items 1 and 2	Alternate, if NA		Type 2 GW RRS mg/L	
				Adult mg/L	Child mg/L	Adult mg/L	Child mg/L	Table 1, App III mg/L	Bkg* mg/L					
1,1,1-Trichloroethane	71-55-6	0.2	0.2		0.2	12	2.7			2.7	0.2		2.7	2.7
1,1,2,2-Tetrachloroethane	79-34-5	0.0002			0.0002	0.73	0.31	0.00089	0.00106	0.00089	0.0002		0.00089	0.00089
1,1,2-Trichloroethane	79-00-5	0.005	0.005		0.005	0.00055	0.00012	0.0032	0.0038	0.0001	0.005		0.0001	0.0050
1,1-Dichloroethane	75-34-3	4			4	7.3	3.1	0.032	0.038	0.032	4		0.032	4.0
1,1-Dichloroethene	75-35-4	0.007	0.007		0.007	0.43	0.10			0.10	0.007		0.10	0.10
1,2-Dichloroethane	107-06-2	0.005	0.005		0.005	0.018	0.003994	0.0020	0.0024	0.0020	0.005		0.0020	0.005
1,2-Dichloropropane	78-87-5	0.005	0.005		0.005	0.011	0.002375	0.0016	0.0018	0.0016	0.005		0.0016	0.005
2-Butanone (MEK)	78-93-3	2			2	8.5	2.3			2.3	2		2.3	2.3
4-Methyl-2-pentanone	108-10-1	2			2	8.3	1.8			1.8	2		1.8	2.0
Acetone	67-64-1	4			4	24	8.0			8.0	4		8.0	8.0
Benzene	71-43-2	0.005	0.005		0.005	0.053	0.014	0.0054	0.0070	0.0054	0.005		0.0054	0.0054
Bromoform	75-25-2	0.08			0.08	0.73	0.31	0.038	0.050	0.038	0.08		0.038	0.08
Carbon disulfide	75-15-0	4			4	1.3	0.33			0.33	4		0.33	4.0
Carbon tetrachloride	56-23-5	0.005	0.005		0.005	0.096	0.031	0.0057	0.0080	0.0057	0.005		0.0057	0.0057
Chloroform	67-66-3	0.08			0.08	0.16	0.043	0.0026	0.0029	0.0026	0.08		0.0026	0.08
Chloromethane	74-87-3	0.003			0.003	0.25	0.054			0.054	0.003		0.054	0.054
cis-1,2-Dichloroethene	156-59-2	0.07	0.07		0.07	0.073	0.031			0.031	0.07		0.031	0.07
Dibromochloromethane	124-48-1	0.08			0.08	0.73	0.31	0.010	0.022	0.010	0.08		0.010	0.08
Dichlorobromomethane	75-27-4	0.08			0.08	0.73	0.31	0.0016	0.0018	0.0016	0.08		0.0016	0.08
Dichloromethane	75-09-2	0.005	0.005		0.005	0.19	0.074	0.40	0.81	0.074	0.005		0.074	0.074
Ethyl benzene	100-41-4	0.7	0.7		0.7	1.6	0.43	0.019	0.024	0.019	0.7		0.019	0.7
Freon-12	75-71-8	1			1	0.27	0.058			0.058	1		0.058	1
Isopropylbenzene	98-82-8				Bkg/DL	0.85	0.21			0.21			0.21	0.21
m-Xylene	108-38-3				Bkg/DL	0.27	0.058			0.058			0.058	0.058
o-Xylene	95-47-6				Bkg/DL	0.27	0.058			0.058			0.058	0.058
p-Xylene	106-42-3				Bkg/DL	0.27	0.058			0.058			0.058	0.058
Tetrachloroethene	127-18-4	0.005	0.005		0.005	0.074	0.019	0.15	0.20	0.019	0.005		0.019	0.019
Toluene	108-88-3	1	1		1	2.4	0.88			0.88	1		0.88	1
trans-1,2-Dichloroethene	156-60-5	0.1	0.1		0.1	0.73	0.31			0.31	0.1		0.31	0.31
Trichloroethene	79-01-6	0.005	0.005		0.005	0.0043	0.0010	0.0085	0.012	0.0010	0.005		0.0010	0.005
Vinyl chloride	75-01-4	0.002	0.002		0.002	0.079	0.026	0.0011	0.0022	0.0011	0.002		0.0011	0.002
Xylenes	1330-20-7		10		10	0.27	0.058			0.058			0.058	10

Table E9. Groundwater Industrial Risk Reduction Standards

Analyte	CAS	TYPE 3 GW RRS	TYPE 4 GW RRS					Non-Residential RRS - higher of Type 3 and 4 mg/L	
		Rule 391-3-19-.07(8)(c) Same as Type 1 GW RRS mg/L	Rule 391-3-19-.07(9)(c): The lesser of Items 1 and 2 (or where NA, the higher of Table 1 App III, background and DL)						
			Item 1 RAGS Eqn 2 (NC) mg/L	Item 2 RAGS Eqn 1 (C) mg/L	Lesser of Items 1 and 2 mg/L	Alternate			Type 4 GW RRS mg/L
Table 1 App III mg/L	Bkg*								
1,1,1-Trichloroethane	71-55-6	0.2	14		14	0.2		14	14
1,1,2,2-Tetrachloroethane	79-34-5	0.0002	2.0	0.0013	0.0013	0.0002		0.0013	0.0013
1,1,2-Trichloroethane	79-00-5	0.005	0.00058	0.0046	0.00058	0.005		0.00058	0.005
1,1-Dichloroethane	75-34-3	4	20	0.046	0.046	4.0		0.046	4.0
1,1-Dichloroethene	75-35-4	0.007	0.52		0.52	0.007		0.52	0.52
1,2-Dichloroethane	107-06-2	0.005	0.020	0.0029	0.0029	0.005		0.0029	0.005
1,2-Dichloropropane	78-87-5	0.005	0.012	0.0021	0.0021	0.005		0.0021	0.0050
2-Butanone (MEK)	78-93-3	2	12		12	2.0		12	12
4-Methyl-2-pentanone	108-10-1	2	8.8		8.8	2.0		8.8	8.8
Acetone	67-64-1	4	46		46	4.0		46	46
Benzene	71-43-2	0.005	0.072	0.0087	0.0087	0.005		0.0087	0.0087
Bromoform	75-25-2	0.08	2.0	0.062	0.062	0.08		0.062	0.08
Carbon disulfide	75-15-0	4	1.7		1.7	4.0		1.7	4.0
Carbon tetrachloride	56-23-5	0.005	0.17	0.010	0.010	0.005		0.010	0.010
Chloroform	67-66-3	0.08	0.22	0.0034	0.0034	0.08		0.0034	0.08
Chloromethane	74-87-3	0.003	0.26		0.26	0.003		0.26	0.26
cis-1,2-Dichloroethene	156-59-2	0.07	0.20		0.20	0.07		0.20	0.20
Dibromochloromethane	124-48-1	0.08	2.0	0.034	0.034	0.08		0.034	0.08
Dichlorobromomethane	75-27-4	0.08	2.0	0.0021	0.0021	0.08		0.0021	0.08
Dichloromethane	75-09-2	0.005	0.45	1.2	0.45	0.005		0.45	0.45
Ethyl benzene	100-41-4	0.7	2.3	0.029	0.029	0.7		0.029	0.7
Freon-12	75-71-8	1	0.29		0.29	1.0		0.29	1.0
Isopropylbenzene	98-82-8	Bkg/DL	1.0		1.0			1.0	1.0
m-Xylene	108-38-3	Bkg/DL	0.29		0.29			0.29	0.29
o-Xylene	95-47-6	Bkg/DL	0.29		0.29			0.29	0.29
p-Xylene	106-42-3	Bkg/DL	0.29		0.29			0.29	0.29
Tetrachloroethene	127-18-4	0.005	0.098	0.26	0.098	0.005		0.098	0.098
Toluene	108-88-3	1	5.2		5.2	1.0		5.2	5.2
trans-1,2-Dichloroethene	156-60-5	0.1	2.0		2.0	0.1		2.0	2.0
Trichloroethene	79-01-6	0.005	0.005	0.015	0.005	0.005		0.005	0.005
Vinyl chloride	75-01-4	0.002	0.15	0.003	0.003	0.002		0.003	0.003
Xylenes	1330-20-7	10	0.29		0.29			0.29	10

Table E10. Protection of Groundwater Soil Screening Level Calculations

Analyte	CAS	Physical/Chemical Properties			Type 1/2 SSL			Type 4 SSL		
		Unitless Henry's Law (H') ^a	Organic Carbon Partitioning Coefficient (Koc) (L/kg)	Soil-Water Partition Coefficient (Kd = Koc * OC) (L/kg)	Residential GW RRS (Higher of Type 1 and 2) (mg/L)	Target Soil Leachate Concentration (Cw = GW RRS * DAF) (mg/L)	Type 1/2 SSL ^b (mg/kg)	Nonresidential GW RRS (Higher of Type 3 and 4) (mg/L)	Target Soil Leachate Concentration (Cw = GW RRS * DAF) (mg/L)	Type 4 SSL ^b (mg/kg)
1,1,1-Trichloroethane	71-55-6	0.70	44	0.088	2.7	54	19	14	273	96
1,1,2-Trichloroethane	79-00-5	0.034	61	0.12	0.005	0.1	0.032	0.005	0.1	0.032
1,1-Dichloroethene	75-35-4	1.1	32	0.064	0.10	2.1	0.74	0.52	10	3.8
2-Butanone (MEK)	78-93-3	0.0023	4.5	0.0090	2.3	45	9.5	12	236	49
Acetone	67-64-1	0.0014	2	0.0047	8.0	160	33	46	912	187
Carbon tetrachloride	56-23-5	1.1	44	0.088	0.0057	0.11	0.04	0.010	0.2044	0.079
Chloroform	67-66-3	0.15	32	0.064	0.08	1.6	0.44	0.08	1.6	0.44
cis-1,2-Dichloroethene	156-59-2	0.17	40	0.079	0.07	1.4	0.41	0.20	4.1	1.2
Dichlorobromomethane	75-27-4	0.087	32	0.064	0.08	1.6	0.43	0.08	1.6	0.43
Dichloromethane	75-09-2	0.13	22	0.043	0.074	1.5	0.38	0.45	9.1	2.3
Ethyl benzene	100-41-4	0.32	446	0.89	0.7	14	16	0.7	14	16
Freon-12	75-71-8	14	44	0.088	1.0	20	31	1	20	31
m-Xylene	108-38-3	0.29	375	0.75	0.058	1.2	1.1	0.29	5.8	5.6
o-Xylene	95-47-6	0.21	383	0.77	0.058	1.2	1.2	0.29	5.8	5.7
p-Xylene	106-42-3	0.28	375	0.75	0.058	1.2	1.1	0.29	5.8	5.6
Tetrachloroethene	127-18-4	0.72	95	0.19	0.019	0.38	0.17	0.098	2.0	0.89
Toluene	108-88-3	0.27	234	0.47	1.0	20	14	5.2	105	73
trans-1,2-Dichloroethene	156-60-5	0.38	40	0.079	0.31	6.3	2.0	2.044	41	13
Trichloroethene	79-01-6	0.40	61	0.12	0.005	0.1	0.036	0.0052	0.10	0.037

Notes:

DAF	20.00
OC (site specific organic carbon)=	0.2%
n (porosity) ^c =	0.43
ps (soil particle den. kg/L) ^c =	2.65
ow (water-filled soil por) ^c =	0.3
oa (air-filled soil por) ^c = n - ow	0.13
pb (dry soil bulk den. kg/L) ^c =	1.5

^aH is set to zero for metals, with the exception of mercury

^bequation 4-10, Supplemental SSG (USEPA 2002) (p. 4-28), $SSL = Cw * (Kd + ((ow + oa * H') / pb))$

^cDefault Soil Screening Guidance Values

NA = No Appendix III Groundwater Concentration available; SSL cannot be calculated.

Table E11. Soil Residential Risk Reduction Standards

		TYPE 1 - SOIL											
		Rule 391-3-19-.07(6)(c): Table 2 Appendix III, or if not listed, the the least of Items 1-3 (and if not calculable the higher of background and DL)											
Analyte	CAS	Table 2 - Appendix III mg/kg	Item 1 of Rule 391-3-19-.07(6)(c): Higher of (i), (ii), (iii)				Item 2 RAGS Eqn. 7 (NC)	Item 3 RAGS Eqn. 6 (C)			Least of Items 1 - 3 mg/kg	Bkg** mg/kg	Type 1 Soil RRS mg/kg
			(i): Appendix I (NC) - exclude [] mg/kg	(ii): Table 1 GW x 100 factor mg/kg	(iii): TCLP* mg/kg	Higher of i mg/kg	Adult mg/kg	Adult mg/kg	Carcin. Class	Adjusted Adult mg/kg			
1,1,1-Trichloroethane	71-55-6		5.44	20		20	10658		D		20		20
1,1,2-Trichloroethane	79-00-5		0.5	0.5		0.5	2	17	C	167	0.5		0.5
1,1-Dichloroethene	75-35-4		0.36	0.7		0.7	238		C		0.7		0.7
2-Butanone (MEK)	78-93-3		0.79	200		200	47534				200		200
Acetone	67-64-1		2.74	400		400	192186				400		400
Carbon tetrachloride	56-23-5		0.17	0.5		0.5	162	6.5	B2	6.5	0.5		0.5
Chloroform	67-66-3		0.68	8		8	355	3.9	B2	3.9	3.9		3.9
cis-1,2-Dichloroethene	156-59-2		0.53	7		7	1281				7		7
Dichlorobromomethane	75-27-4		1.18	8		8	12807	3.7		3.7	3.7		3.7
Dichloromethane	75-09-2		0.08	0.5		0.5	1207	3571	B2	3571	0.5		0.5
Ethyl benzene	100-41-4		20	70		70	9084	92		92	70		70
Freon-12	75-71-8		1.49	100		100	23				23		23
m-Xylene	108-38-3		20			20	1010				20		20
o-Xylene	95-47-6		20			20	1195				20		20
p-Xylene	106-42-3		20			20	1031				20		20
Tetrachloroethene	127-18-4		0.18	0.5		0.5	141	315	B	315	0.5		0.5
Toluene	108-88-3		14.4	100		100	22168				100		100
trans-1,2-Dichloroethene	156-60-5		0.53	10		10	12807				10		10
Trichloroethene	79-01-6		0.13	0.5		0.5	7	18	A	18	0.5		0.5
Trichloroethene Direct Contact													

* NA - TCLP results not available for this Site

** NA - Background not determined for this Site

*** NA - Lead not a COPC

Table E11. Soil Residential Risk Reduction Standards

Analyte	CAS	TYPE 2 - SOIL										Residential Soil RRS - higher of Type 1 and 2 mg/kg
		Rule 391-3-19-.07(7)(c): Least of Items 1-4 (and if not calculable, the higher of Table 2 Appendix III, background and DL)										
		Item 1 Type 1/2 SSL Protective of Groundwater mg/kg	Item 2 RAGS Eqn 7 (NC)		Item 3 RAGS Eqn 6 (C)		Item 4 IEUBK*** mg/kg	Least of Items 1 - 4 mg/kg	Alternate, if NA		Type 2 RRS mg/kg	
			Adult mg/kg	Child mg/kg	Adult mg/kg	Child mg/kg			Table 2, Appendix III mg/kg	Bkg ** mg/kg		
1,1,1-Trichloroethane	71-55-6	19	10658	2270				19			19	20
1,1,2-Trichloroethane	79-00-5	0.032	2.4	0.5231174	17	17		0.032			0.032	0.5
1,1-Dichloroethene	75-35-4	0.7	238	51				0.74			0.74	0.74
2-Butanone (MEK)	78-93-3	9.5	47534	9316				9.5			9.5	200
Acetone	67-64-1	33	192186	32905				33			33	400
Carbon tetrachloride	56-23-5	0.044	162	33	6.5	6.8		0.044			0.044	0.5
Chloroform	67-66-3	0.44	355	73	3.9	4.1		0.44			0.44	3.9
cis-1,2-Dichloroethene	156-59-2	0.41	1281	156				0.41			0.41	7
Dichlorobromomethane	75-27-4	0.43	12807	1564	3.7	3.9		0.43			0.43	3.7
Dichloromethane	75-09-2	0.38	1207	209	3571	2812		0.38			0.38	0.5
Ethyl benzene	100-41-4	16	9084	1758	92	94		16			16	70
Freon-12	75-71-8	31	23	5.0				5.0			5.0	23
m-Xylene	108-38-3	1.1	1010	215				1.1			1.1	20
o-Xylene	95-47-6	1.2	1195	254				1.2			1.2	20
p-Xylene	106-42-3	1.1	1031	220				1.1			1.1	20
Tetrachloroethene	127-18-4	0.17	141	29	315	326		0.17			0.17	0.5
Toluene	108-88-3	14	22168	3581				14			14	100
trans-1,2-Dichloroethene	156-60-5	2.0	12807	1564				2.0			2.0	10
Trichloroethene	79-01-6	0.036	6.6	1.4	18	19		0.036			0.036	0.5
Trichloroethene Direct Contact			6.6	1.4	18.2	18.7		1.4			1.4	1.4

* NA - TCLP results not available for thi

** NA - Background not determined fo

*** NA - Lead not a COPC

Table E12. Soil Non-Residential Risk Reduction Standards

Analyte	CAS	TYPE 3 SOIL														
		Item 1: Rule 391-3-19-.07(8)(d)1.						Item 2: Rule 391-3-19-.07(8)(d)2						Alternate if NA	Type 3 SS (<2') RRS:	Type 3 SB (>2') RRS:
		(i): Item 1 of Rule 391-3-19-.07(6)(c)			(ii)	(iii)	Item 1: Highest of (i), (ii) and (iii)	(i)	(ii)			(iii)	Item 2: Lowest of (i), (ii) and (iii)	Bkg **	Lower of Items 1 and 2, if NA then Bkg or DL	Item 1, if NA then Bkg or DL
		Appendix I (NC) - exclude []	Table 1 GW x 100 factor	TCLP*	Table 2 of Appendix III	Lead* **		RAGS Eqn. 7 Worker NC	RAGS Eqn. 6 Worker C	Cancer Class	Adjusted Eqn 6 Worker C	Lead* **				
mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
1,1,1-Trichloroethane	71-55-6	5.44	20			20	33575		D			33575		20	20	
1,1,2-Trichloroethane	79-00-5	0.5	0.5			0.5	7.7	63	C	632		7.7		0.5	0.5	
1,1-Dichloroethene	75-35-4	0.36	0.7			0.7	750		C			750		0.7	0.7	
2-Butanone (MEK)	78-93-3	0.79	200			200	149976					149976		200	200	
Acetone	67-64-1	2.74	400			400	608053					608053		400	400	
Carbon tetrachloride	56-23-5	0.17	0.5			0.5	512	24.7	B2	24.7		24.7		0.5	0.5	
Chloroform	67-66-3	0.68	8			8	1118	14.6	B2	14.6		14.6		8.0	8	
cis-1,2-Dichloroethene	156-59-2	0.53	7			7	4088					4088		7	7	
Dichlorobromomethane	75-27-4	1.18	8			8	40880	14.0		14.0		14.0		8.0	8	
Dichloromethane	75-09-2	0.08	0.5			0.5	3817	13585	B2	13585		3817		0.5	0.5	
Ethyl benzene	100-41-4	20	70			70	28667	348		348		348		70	70	
Freon-12	75-71-8	1.49	100			100	73					73		73	100	
m-Xylene	108-38-3	20				20	3180					3180		20	20	
o-Xylene	95-47-6	20				20	3766					3766		20	20	
p-Xylene	106-42-3	20				20	3247					3247		20	20	
Tetrachloroethene	127-18-4	0.18	0.5			0.5	446	1190	B	1190		446		0.5	0.5	
Toluene	108-88-3	14.4	100			100	70228					70228		100	100	
trans-1,2-Dichloroethene	156-60-5	0.53	10			10	40880					40880		10	10	
Trichloroethene	79-01-6	0.13	0.5			0.5	21	69	A	69		21		0.5	0.5	
TCE - Industrial Wkr Direct Contact																
TCE - Construction Wkr Direct Contact																

* NA - TCLP results not available for this Site

** NA - Background not determined for this Site

*** NA - Lead not a COPC

SS: Surface Soil (0-2 ft) SB: Subsurface Soil (> 2ft)

Table E12. Soil Non-Residential Risk Reduction Standards

Analyte	CAS	Type 4 Soil								
		Item 1: Rule 391-3-19.-07(9)(d) Type 3/4 SSL Protection of Groundwater mg/kg	Item 2: Rule 391-3-19.-07(9)(d)				Alternate, if NA		Type 4 SS RRS: Lesser of Items 1 and 2 mg/kg	Type 4 SB RRS: Item 1 mg/kg
			(i)	(ii)	Item 2: Lowest of (i),(ii) and (iii) mg/kg	Table 2, Appendix III mg/kg	Bkg ** mg/kg			
			RAGS Eqn.7 Worker NC mg/kg	RAGS Eqn. 6 Worker C mg/kg				(iii) Lead *** mg/kg	if NA highest of Table 2 Appendix III, Bkg or DL mg/kg	
1,1,1-Trichloroethane	71-55-6	96	33575			33575			96	96
1,1,2-Trichloroethane	79-00-5	0.032	7.7	63		7.7			0.032	0.032
1,1-Dichloroethene	75-35-4	3.8	750			750			3.8	3.8
2-Butanone (MEK)	78-93-3	49	149976			149976			49	49
Acetone	67-64-1	187	608053			608053			187	187
Carbon tetrachloride	56-23-5	0.079	512	24.7		24.7			0.079	0.079
Chloroform	67-66-3	0.44	1118	14.6		14.6			0.44	0.44
cis-1,2-Dichloroethene	156-59-2	1.2	4088			4088			1.2	1.2
Dichlorobromomethane	75-27-4	0.43	40880	14.0		14.0			0.43	0.43
Dichloromethane	75-09-2	2.3	3817	13585		3817			2.3	2.3
Ethyl benzene	100-41-4	16	28667	348		348			16	16
Freon-12	75-71-8	31	73			73			31	31
m-Xylene	108-38-3	5.6	3180			3180			5.6	5.6
o-Xylene	95-47-6	5.7	3766			3766			5.7	5.7
p-Xylene	106-42-3	5.6	3247			3247			5.6	5.6
Tetrachloroethene	127-18-4	0.89	446	1190		446			0.89	0.89
Toluene	108-88-3	73	70228			70228			73	73
trans-1,2-Dichloroethene	156-60-5	13	40880			40880			13	13
Trichloroethene	79-01-6	0.037	21	69		21			0.037	0.037
TCE - Industrial Wkr Direct Contact			21	69		21			21	
TCE - Construction Wkr Direct Contact			38	2628		38			38	38

Non-Residential SS (higher of Type 3 and 4) mg/kg	Non-Residential SB (higher of Type 3 and 4) mg/kg
96	96
0.5	0.5
3.8	3.8
200	200
400	400
0.5	0.5
8.0	8.0
7.0	7.0
8.0	8.0
2.3	2.3
70	70
73	100
20	20
20	20
20	20
0.89	0.89
100	100
13	13
0.5	0.5
21	
38	38

* NA - TCLP results not available for this
 ** NA - Background not determined for
 *** NA - Lead not a COPC
 SS: Surface Soil (0-2 ft) SB: Subsurf:

Table E13. Summary of Groundwater Risk Reduction Standards

Analyte	Groundwater					
	Type 1 RRS mg/L	Type 2 RRS mg/L	Residential RRS mg/L	Type 3 RRS mg/L	Type 4 RRS mg/L	Non-Residential RRS mg/L
1,1,1-Trichloroethane	0.2	2.7	2.7	0.20	13.6	13.6
1,1,2,2-Tetrachloroethane	0.0002	0.0009	0.0009	0.0002	0.0013	0.0013
1,1,2-Trichloroethane	0.005	0.0001	0.005	0.005	0.0006	0.0050
1,1-Dichloroethane	4.0	0.032	4.0	4.0	0.0464	4.0
1,1-Dichloroethene	0.007	0.10	0.10	0.007	0.52	0.52
1,2-Dichloroethane	0.005	0.0020	0.005	0.005	0.0029	0.005
1,2-Dichloropropane	0.005	0.0016	0.005	0.005	0.0021	0.0050
2-Butanone (MEK)	2.0	2.3	2.3	2.0	12	12
4-Methyl-2-pentanone	2.0	1.8	2.0	2.0	8.8	8.8
Acetone	4.0	8.0	8.0	4.0	46	46
Benzene	0.005	0.0054	0.0054	0.005	0.0087	0.0087
Bromoform	0.08	0.038	0.080	0.080	0.062	0.080
Carbon disulfide	4.0	0.33	4.0	4.0	1.7	4.0
Carbon tetrachloride	0.005	0.0057	0.0057	0.005	0.01022	0.01022
Chloroform	0.08	0.0026	0.080	0.080	0.0034	0.080
Chloromethane	0.003	0.054	0.054	0.003	0.26	0.26
cis-1,2-Dichloroethene	0.07	0.031	0.070	0.070	0.20	0.20
Dibromochloromethane	0.08	0.010	0.080	0.080	0.034	0.080
Dichlorobromomethane	0.08	0.0016	0.080	0.080	0.002	0.080
Dichloromethane	0.005	0.074	0.074	0.005	0.45	0.45
Ethyl benzene	0.70	0.019	0.7	0.7	0.029	0.7
Freon-12	1.0	0.058	1.0	1.0	0.29	1.0
Isopropylbenzene	Bkg/DL	0.21	0.21	Bkg/DL	1.0	1.0
m-Xylene	Bkg/DL	0.058	0.058	Bkg/DL	0.29	0.29
o-Xylene	Bkg/DL	0.058	0.058	Bkg/DL	0.29	0.29
p-Xylene	Bkg/DL	0.058	0.058	Bkg/DL	0.29	0.29
Tetrachloroethene	0.005	0.019	0.019	0.005	0.098	0.098
Toluene	1	0.88	1	1	5.2	5.2
trans-1,2-Dichloroethene	0.1	0.31	0.31	0.1	2.0	2.0
Trichloroethene	0.005	0.0010	0.005	0.005	0.0052	0.0052
Vinyl chloride	0.002	0.0011	0.002	0.002	0.0033	0.0033
Xylenes	10	0.058	10	10	0.29	10

Residential RRS: Higher of Type 1 and Type 2

NonResidential RRS: Higher of Type 3 and Type 4

Table E14. Summary of Soil Risk Reduction Standards

Analyte	Soil								
	Type 1 RRS mg/kg	Type 2 RRS mg/kg	Residential RRS mg/kg	Type 3 RRS		Type 4 RRS		Non-Residential RRS	
				SS mg/kg	SB mg/kg	SS mg/kg	SB mg/kg	SS mg/kg	SB mg/kg
1,1,1-Trichloroethane	20	19	20	20	20	96	96	96	96
1,1,2-Trichloroethane	0.5	0.032	0.5	0.5	0.5	0.032	0.032	0.5	0.5
1,1-Dichloroethene	0.7	0.74	0.74	0.7	0.7	3.8	3.8	3.8	3.8
2-Butanone (MEK)	200	9.5	200	200	200	49	49	200	200
Acetone	400	33	400	400	400	187	187	400	400
Carbon tetrachloride	0.5	0.044	0.5	0.5	0.5	0.079	0.079	0.5	0.5
Chloroform	3.9	0.44	3.9	8.0	8	0.44	0.44	8.0	8.0
cis-1,2-Dichloroethene	7	0.41	7	7	7	1.2	1.2	7.0	7.0
Dichlorobromomethane	3.7	0.43	3.7	8.0	8.0	0.43	0.43	8.0	8.0
Dichloromethane	0.5	0.38	0.5	0.5	0.5	2.3	2.3	2.3	2.3
Ethyl benzene	70	16	70	70	70	16	16	70	70
Freon-12	23	5.0	23	73	100	31	31	73	100
m-Xylene	20	1.1	20	20	20	5.6	5.6	20	20
o-Xylene	20	1.2	20	20	20	5.7	5.7	20	20
p-Xylene	20	1.1	20	20	20	5.6	5.6	20	20
Tetrachloroethene	0.5	0.17	0.5	0.5	0.5	0.89	0.89	0.89	0.89
Toluene	100	14	100	100	100	73	73	100	100
trans-1,2-Dichloroethene	10	2.0	10	10	10	13	13	13	13
Trichloroethene	0.5	0.036	0.5	0.5	0.5	0.037	0.037	0.5	0.5
Direct-Contact		Residential - Type 2		Industrial Worker - Type 4 SS			Construction Worker - Type 4 SS/SB		
Trichloroethene		1.4		21			38		

Residential RRS: Higher of Type 1 and Type 2

Non-Residential RRS: Higher of Type 3 and Type 4

SS: Surface Soil (<= 2ft)

SB: Subsurface Soil (> 2ft)

**Pro-UCL Attachment for
Soil Risk Reduction Standards**

TCE - Surface Soil (< 2ft) - using post-SVE data

Matrix	Parameter	Location	D2	val	D_val
Soil	Trichloroethene	SB-68	1	0.01	1
Soil	Trichloroethene	SCS-17	1.5	0.670000017	1
Soil	Trichloroethene	SCS-17	0.5	0.094000004	1
Soil	Trichloroethene	SB-62	1	0.0033	0
Soil	Trichloroethene	SB-66	2	0.005	0
Soil	Trichloroethene	SB-67	1	0.0043	0
Soil	Trichloroethene	SB-68	2	1.299999952	1
Soil	Trichloroethene	SB-78	2	0.0031	0
Soil	Trichloroethene	SCS-14	0.5	0.034000002	1
Soil	Trichloroethene	SCS-19	0.5	0.570000052	1
Soil	Trichloroethene	SB-70	2	0.0042	0
Soil	Trichloroethene	HA-1	0.5	0	0
Soil	Trichloroethene	SB-71	1	0.0052	0
Soil	Trichloroethene	SB-71	2	0.0047	1
Soil	Trichloroethene	SB-72	2	0.0041	0
Soil	Trichloroethene	SB-75	2	0.0077	1
Soil	Trichloroethene	SB-77	2	0.0051	0
Soil	Trichloroethene	SCS-14	1.5	0.050000001	1
Soil	Trichloroethene	SB-55	2	0.140000001	1
Soil	Trichloroethene	HA-2	0.5	0.00426	0
Soil	Trichloroethene	SCS-8	1.5	0.0025	0
Soil	Trichloroethene	SCS-8	0.5	0.0039	0
Soil	Trichloroethene	HA-3	0.5	0.00359	0
Soil	Trichloroethene	S-2	1	0.24000001	1
Soil	Trichloroethene	SCS-6	1.5	0.015000001	1
Soil	Trichloroethene	SCS-6	0.5	0.0032	0
Soil	Trichloroethene	SCS-18	0.5	0.950000048	1
Soil	Trichloroethene	SB-52	2	3.400000095	1
Soil	Trichloroethene	SCS-18	1.5	0.056000002	1
Soil	Trichloroethene	SB-56	2	0.50999999	1
Soil	Trichloroethene	SB-61	2	1.899999976	1
Soil	Trichloroethene	SB-61	1	0.0098	1
Soil	Trichloroethene	SCS-2	1.5	0.0077	1
Soil	Trichloroethene	SCS-2	0.5	0.0035	0
Soil	Trichloroethene	SCS-19	1.5	0.016000001	1
Soil	Trichloroethene	S-5	1	0.430000007	1
Soil	Trichloroethene	SCS-12	1.5	0.049000002	1
Soil	Trichloroethene	SCS-16	0.5	1.300000072	1
Soil	Trichloroethene	SCS-9	0.5	0.0038	0
Soil	Trichloroethene	SCS-7	1.5	0.037	1
Soil	Trichloroethene	SCS-7	0.5	0.210000008	0
Soil	Trichloroethene	SCS-5	1.5	0.034000002	1
Soil	Trichloroethene	SCS-5	0.5	0.005	1
Soil	Trichloroethene	SCS-4	1	0.0047	0
Soil	Trichloroethene	SCS-4	0.5	0.0034	0
Soil	Trichloroethene	SCS-3	1.5	0.0039	0
Soil	Trichloroethene	SCS-11	1.5	0.045000002	1

Soil	Trichloroethene	SCS-16	1.5	0.0048	1
Soil	Trichloroethene	SCS-1	0.5	0.015000001	1
Soil	Trichloroethene	SCS-15	1.5	0.170000002	1
Soil	Trichloroethene	SCS-15	0.5	0.150000006	1
Soil	Trichloroethene	SCS-9	1.5	0.0045	0
Soil	Trichloroethene	SCS-12	0.5	0.011000001	1
Soil	Trichloroethene	SCS-11	0.5	0.008800001	1
Soil	Trichloroethene	SCS-10	1.5	0.081	1
Soil	Trichloroethene	SCS-10	0.5	0.014	1
Soil	Trichloroethene	SCS-1	1.5	0.0034	0
Soil	Trichloroethene	SCS-3	0.5	0.0038	0

UCL Statistics for Data Sets with Non-Detects

User Selected Options

Date/Time of Computation	ProUCL 5.15/11/2018 11:14:58 AM
From File	WorkSheet.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

TCE SS

General Statistics

Total Number of Observations	58	Number of Distinct Observations	50
Number of Detects	35	Number of Non-Detects	23
Number of Distinct Detects	32	Number of Distinct Non-Detects	20
Minimum Detect	0	Minimum Non-Detect	0
Maximum Detect	3.4	Maximum Non-Detect	0.21
Variance Detects	0.49	Percent Non-Detects	39.66%
Mean Detects	0.35	SD Detects	0.696
Median Detects	0.05	CV Detects	1.975
Skewness Detects	3.07	Kurtosis Detects	10.76

Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic	0.57	Shapiro Wilk GOF Test
5% Shapiro Wilk Critical Value	0.93	Detected Data Not Normal at 5% Significance Level
Lilliefors Test Statistic	0.32	Lilliefors GOF Test
5% Lilliefors Critical Value	0.15	Detected Data Not Normal at 5% Significance Level
Detected Data Not Normal at 5% Significance Level		

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

KM Mean	0.21	KM Standard Error of Mean	0.0746
KM SD	0.56	95% KM (BCA) UCL	0.344
95% KM (t) UCL	0.34	95% KM (Percentile Bootstrap) UCL	0.351
95% KM (z) UCL	0.34	95% KM Bootstrap t UCL	0.436
90% KM Chebyshev UCL	0.44	95% KM Chebyshev UCL	0.538
97.5% KM Chebyshev UCL	0.68	99% KM Chebyshev UCL	0.956

Gamma GOF Tests on Detected Observations Only

A-D Test Statistic	1.77	Anderson-Darling GOF Test	
5% A-D Critical Value	0.84	Detected Data Not Gamma Distributed at 5% Significance Level	
K-S Test Statistic	0.2	Kolmogorov-Smirnov GOF	
5% K-S Critical Value	0.16	Detected Data Not Gamma Distributed at 5% Significance Level	

Gamma Statistics on Detected Data Only

k hat (MLE)	0.39	k star (bias corrected MLE)	0.379
Theta hat (MLE)	0.9	Theta star (bias corrected MLE)	0.93
nu hat (MLE)	27.6	nu star (bias corrected)	26.53
Mean (detects)	0.35		

Estimates of Gamma Parameters using KM Estimates

Mean (KM)	0.21	SD (KM)	0.56
Variance (KM)	0.31	SE of Mean (KM)	0.0746
k hat (KM)	0.15	k star (KM)	0.149
nu hat (KM)	16.8	nu star (KM)	17.27
theta hat (KM)	1.47	theta star (KM)	1.432
80% gamma percentile (KM)	0.23	90% gamma percentile (KM)	0.631
95% gamma percentile (KM)	1.18	99% gamma percentile (KM)	2.755

Gamma Kaplan-Meier (KM) Statistics

		Adjusted Level of Significance (β)	0.0459
Approximate Chi Square Value (17.27, α)	8.86	Adjusted Chi Square Value (17.27, β)	8.709
95% Gamma Approximate KM-UCL (use when $n \geq 50$)	0.42	95% Gamma Adjusted KM-UCL (use when $n \geq 50$)	0.423

Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution

KM Mean (logged)	N/A	KM Geo Mean	N/A
KM SD (logged)	N/A	95% Critical H Value (KM-Log)	N/A
KM Standard Error of Mean (logged)	N/A	95% H-UCL (KM -Log)	N/A
KM SD (logged)	N/A	95% Critical H Value (KM-Log)	N/A
KM Standard Error of Mean (logged)	N/A		

DL/2 Statistics

Mean in Original Scale	0.22	SD in Original Scale	0.564
95% t UCL (Assumes normality)	0.34		

DL/2 is not a recommended method, provided for comparisons and historical reasons

Nonparametric Distribution Free UCL Statistics

Data do not follow a Discernible Distribution at 5% Significance Level

Suggested UCL to Use

99% KM (Chebyshev) UCL	0.96
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Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.

Recommendations are based upon data size, data distribution, and skewness.

These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).

However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

TCE - Sub Surface Soil (0-10 ft) - using post-SVE data

Matrix	Parameter	Location	D2	val	D_val
Soil	Trichloroethene	SB-33	4	29	1
Soil	Trichloroethene	SB-53	8	2.299999952	1
Soil	Trichloroethene	SB-53	4	6	1
Soil	Trichloroethene	SB-52	8	11	1
Soil	Trichloroethene	SB-52	2	3.400000095	1
Soil	Trichloroethene	SB-51	4	0.0046	0
Soil	Trichloroethene	SB-51	10	0.0059	0
Soil	Trichloroethene	SB-5	4	0.0107	1
Soil	Trichloroethene	SB-5	10	0.00441	0
Soil	Trichloroethene	SB-4	4	0.023	1
Soil	Trichloroethene	SB-4	10	0.00936	1
Soil	Trichloroethene	SB-23	4	0.263999999	1
Soil	Trichloroethene	SB-34	10	41	1
Soil	Trichloroethene	SB-55	2	0.140000001	1
Soil	Trichloroethene	SB-33	10	21	1
Soil	Trichloroethene	SB-30	4	2.599999905	1
Soil	Trichloroethene	SB-30	10	55	1
Soil	Trichloroethene	SB-3	8	0.016000001	1
Soil	Trichloroethene	SB-3	4	0.0197	1
Soil	Trichloroethene	SB-29	8	0.243000001	1
Soil	Trichloroethene	SB-29	4	0.0288	1
Soil	Trichloroethene	SB-28	8	0.0113	1
Soil	Trichloroethene	SB-24	8	0.0352	1
Soil	Trichloroethene	SB-24	4	0.00295	0
Soil	Trichloroethene	SB-67	1	0.0043	0
Soil	Trichloroethene	SB-34	4	20	1
Soil	Trichloroethene	SB-61	2	1.899999976	1
Soil	Trichloroethene	HA-1	0.5	0	0
Soil	Trichloroethene	SB-67	4	0.0041	0
Soil	Trichloroethene	SB-66	6	0.0047	0
Soil	Trichloroethene	SB-66	2	0.005	0
Soil	Trichloroethene	SB-64	8	0.0045	0
Soil	Trichloroethene	SB-64	4	0.0039	0
Soil	Trichloroethene	SB-63	4	0.011	1
Soil	Trichloroethene	SB-63	10	0.100000001	1
Soil	Trichloroethene	SB-62	1	0.0033	0
Soil	Trichloroethene	SB-62	8	0.0054	0
Soil	Trichloroethene	SB-62	4	0.015	1
Soil	Trichloroethene	SB-54	10	0.50999999	1
Soil	Trichloroethene	SB-61	10	16	1
Soil	Trichloroethene	SB-54	4	9.600000381	1
Soil	Trichloroethene	SB-6	8	0.326000005	1
Soil	Trichloroethene	SB-6	4	0.82099998	1
Soil	Trichloroethene	SB-59	10	8.899999619	1
Soil	Trichloroethene	SB-58	6	1.5	1
Soil	Trichloroethene	SB-58	4	1.700000048	1
Soil	Trichloroethene	SB-57	8	0.400000006	1

Soil	Trichloroethene	SB-57	4	0.061000001	1
Soil	Trichloroethene	SB-56	2	0.50999999	1
Soil	Trichloroethene	SB-56	10	0.082999997	1
Soil	Trichloroethene	SB-55	8	0.170000002	0
Soil	Trichloroethene	SB-2	8	0.065800004	1
Soil	Trichloroethene	SB-61	1	0.0098	1
Soil	Trichloroethene	S-13	7.5	0.330000013	1
Soil	Trichloroethene	SA-4	4	7.5	1
Soil	Trichloroethene	SA-4	10	7.599999905	1
Soil	Trichloroethene	SA-3	5	14	1
Soil	Trichloroethene	SA-3	10	27	1
Soil	Trichloroethene	S-5	1	0.430000007	1
Soil	Trichloroethene	S-3	8	0.550000012	1
Soil	Trichloroethene	S-3	6	4	1
Soil	Trichloroethene	S-20	2.5	0.052000001	1
Soil	Trichloroethene	S-2	1	0.24000001	1
Soil	Trichloroethene	S-18	2.5		0
Soil	Trichloroethene	SB-23	8	0.00322	0
Soil	Trichloroethene	S-16	5	2.900000095	1
Soil	Trichloroethene	SA-8	5	0.0038	0
Soil	Trichloroethene	S-13	5	0.210000008	1
Soil	Trichloroethene	S-13	2.5	2.60000143	1
Soil	Trichloroethene	S-13	10	0.092000008	1
Soil	Trichloroethene	S-12	5		0
Soil	Trichloroethene	S-12	2.5		0
Soil	Trichloroethene	S-11	2.5	0.870000064	1
Soil	Trichloroethene	HA-3	4	0.00336	0
Soil	Trichloroethene	HA-3	0.5	0.00359	0
Soil	Trichloroethene	HA-2	4	0.00587	0
Soil	Trichloroethene	HA-2	0.5	0.00426	0
Soil	Trichloroethene	HA-1	4	0.016100001	1
Soil	Trichloroethene	S-17	2.5	2.200000048	1
Soil	Trichloroethene	SB-12	6	0.0046	0
Soil	Trichloroethene	SB-2	4	0.063299999	1
Soil	Trichloroethene	SB-18	6	0.815999985	1
Soil	Trichloroethene	SB-18	4	0	0
Soil	Trichloroethene	SB-17	8	0.0041	0
Soil	Trichloroethene	SB-17	4	0.0167	1
Soil	Trichloroethene	SB-16	8	0.00443	0
Soil	Trichloroethene	SB-16	4	0.0032	0
Soil	Trichloroethene	SB-15	8	6.559999943	1
Soil	Trichloroethene	SB-15	4	3.589999914	1
Soil	Trichloroethene	SB-14	4	0.007	1
Soil	Trichloroethene	SB-14	10	0.00664	1
Soil	Trichloroethene	SA-5	10	0.150000006	1
Soil	Trichloroethene	SB-13	4	0	0
Soil	Trichloroethene	SA-5	5	0.068000004	1
Soil	Trichloroethene	SB-12	4	0.0039	0
Soil	Trichloroethene	SB-11	8	0.052999999	1
Soil	Trichloroethene	SB-11	4	0.011	1

Soil	Trichloroethene	SB-10	6	0.00325	0
Soil	Trichloroethene	SB-10	4	0.00335	0
Soil	Trichloroethene	SB-1	9	0.00977	1
Soil	Trichloroethene	SB-1	5	0	0
Soil	Trichloroethene	SA-9	9	5	1
Soil	Trichloroethene	SA-9	5	0.689999998	1
Soil	Trichloroethene	SA-8	8	0.0031	1
Soil	Trichloroethene	SB-68	2	1.299999952	1
Soil	Trichloroethene	SB-13	8	0.00363	0
Soil	Trichloroethene	SCS-19	4	0.004	0
Soil	Trichloroethene	SCS-13	8	0.005	0
Soil	Trichloroethene	SCS-14	0.5	0.034000002	1
Soil	Trichloroethene	SCS-14	1.5	0.050000001	1
Soil	Trichloroethene	SCS-14	7	0.0039	0
Soil	Trichloroethene	SB-67	6	0.0047	0
Soil	Trichloroethene	SCS-17	0.5	0.094000004	1
Soil	Trichloroethene	SCS-17	1.5	0.670000017	1
Soil	Trichloroethene	SCS-17	4	0.019000001	1
Soil	Trichloroethene	SCS-17	8	0.0042	1
Soil	Trichloroethene	SCS-18	0.5	0.950000048	1
Soil	Trichloroethene	SCS-18	1.5	0.056000002	1
Soil	Trichloroethene	SCS-18	4	0.004	0
Soil	Trichloroethene	SCS-18	8	0.0053	0
Soil	Trichloroethene	SCS-13	4	0.0087	1
Soil	Trichloroethene	SCS-6	0.5	0.0032	0
Soil	Trichloroethene	SCS-8	8	0.0038	0
Soil	Trichloroethene	SCS-8	4	0.0035	0
Soil	Trichloroethene	SCS-8	1.5	0.0025	0
Soil	Trichloroethene	SCS-8	0.5	0.0039	0
Soil	Trichloroethene	SCS-6	8	0.0066	1
Soil	Trichloroethene	SCS-19	0.5	0.570000052	1
Soil	Trichloroethene	SCS-6	1.5	0.015000001	1
Soil	Trichloroethene	SCS-19	1.5	0.016000001	1
Soil	Trichloroethene	SCS-2	8	0.0037	0
Soil	Trichloroethene	SCS-2	4	0.0041	0
Soil	Trichloroethene	SCS-2	1.5	0.0077	1
Soil	Trichloroethene	SCS-2	0.5	0.0035	0
Soil	Trichloroethene	SCS-19	8	0.0038	1
Soil	Trichloroethene	SCS-14	5	0.0034	0
Soil	Trichloroethene	SCS-6	4	0.0035	0
Soil	Trichloroethene	SB-73	4	0.028000001	1
Soil	Trichloroethene	SB-78	2	0.0031	0
Soil	Trichloroethene	SB-78	10	0.0042	0
Soil	Trichloroethene	SB-77	8	0.0041	0
Soil	Trichloroethene	SB-77	2	0.0051	0
Soil	Trichloroethene	SB-9	4	0.00417	1
Soil	Trichloroethene	SB-76	10	0.0036	0
Soil	Trichloroethene	SB-75	2	0.0077	1
Soil	Trichloroethene	SB-74	6	9.5	1
Soil	Trichloroethene	SB-74	4	0.170000002	1

Soil	Trichloroethene	SB-79	9	0.004	0
Soil	Trichloroethene	SB-73	10	0.015	1
Soil	Trichloroethene	SB-76	4	0.0052	0
Soil	Trichloroethene	SB-72	2	0.0041	0
Soil	Trichloroethene	SB-72	10	0.024	1
Soil	Trichloroethene	SB-71	8	0.209999993	0
Soil	Trichloroethene	SB-71	2	0.0047	1
Soil	Trichloroethene	SB-71	1	0.0052	0
Soil	Trichloroethene	SB-70	8	0.0036	0
Soil	Trichloroethene	SB-70	2	0.0042	0
Soil	Trichloroethene	SB-69	6	2.400000095	1
Soil	Trichloroethene	SB-68	1	0.01	1
Soil	Trichloroethene	SB-68	10	0.050999999	1
Soil	Trichloroethene	SB-73	6	0.02	1
Soil	Trichloroethene	SB-79	3	0.0049	0
Soil	Trichloroethene	SB-80	6	0.0048	0
Soil	Trichloroethene	SB-80	3	0.0047	0
Soil	Trichloroethene	SB-8	8	3.839999914	1
Soil	Trichloroethene	SB-8	4	5.519999981	1
Soil	Trichloroethene	SB-9	10	0	0
Soil	Trichloroethene	SB-75	8	0.0092	1
Soil	Trichloroethene	SCS-5	8	0.0037	0
Soil	Trichloroethene	SCS-5	4	0.0075	1
Soil	Trichloroethene	SCS-5	1.5	0.034000002	1
Soil	Trichloroethene	SCS-7	0.5	0.210000008	0
Soil	Trichloroethene	SCS-5	0.5	0.005	1
Soil	Trichloroethene	SCS-4	8	0.0037	0
Soil	Trichloroethene	SCS-10	4	0.0092	1
Soil	Trichloroethene	SCS-10	1.5	0.081	1
Soil	Trichloroethene	SCS-10	0.5	0.014	1
Soil	Trichloroethene	SCS-10	8	0.015000001	1
Soil	Trichloroethene	SCS-7	1.5	0.037	1
Soil	Trichloroethene	SCS-4	4	0.0038	0
Soil	Trichloroethene	SCS-7	8	3.100000143	1
Soil	Trichloroethene	SCS-3	1.5	0.0039	0
Soil	Trichloroethene	SCS-1	8	0.0034	0
Soil	Trichloroethene	SCS-1	4	0.0069	1
Soil	Trichloroethene	SCS-1	1.5	0.0034	0
Soil	Trichloroethene	SCS-1	0.5	0.015000001	1
Soil	Trichloroethene	SCS-9	0.5	0.0038	0
Soil	Trichloroethene	SCS-9	1.5	0.0045	0
Soil	Trichloroethene	SCS-9	4	0.0038	0
Soil	Trichloroethene	SCS-7	4	0.170000002	1
Soil	Trichloroethene	SCS-12	1.5	0.049000002	1
Soil	Trichloroethene	SCS-15	10	0.004	0
Soil	Trichloroethene	SCS-15	4	0.0055	1
Soil	Trichloroethene	SCS-16	0.5	1.300000072	1
Soil	Trichloroethene	SCS-16	1.5	0.0048	1
Soil	Trichloroethene	SCS-16	4	0.004900001	1
Soil	Trichloroethene	SCS-16	8	0.0035	0

Soil	Trichloroethene	SCS-9	8	0.0034	0
Soil	Trichloroethene	SCS-15	0.5	0.150000006	1
Soil	Trichloroethene	SCS-3	8	0.0037	0
Soil	Trichloroethene	SCS-12	4	0.0042	0
Soil	Trichloroethene	SCS-4	1	0.0047	0
Soil	Trichloroethene	SCS-12	0.5	0.011000001	1
Soil	Trichloroethene	SCS-11	8	0.015000001	1
Soil	Trichloroethene	SCS-11	4	0.007	1
Soil	Trichloroethene	SCS-11	1.5	0.045000002	1
Soil	Trichloroethene	SCS-11	0.5	0.008800001	1
Soil	Trichloroethene	SCS-3	0.5	0.0038	0
Soil	Trichloroethene	SCS-15	1.5	0.170000002	1
Soil	Trichloroethene	SCS-3	4	0.0042	0
Soil	Trichloroethene	SCS-4	0.5	0.0034	0
Soil	Trichloroethene	SCS-12	8	0.011000001	1

UCL Statistics for Data Sets with Non-Detects

User Selected Options

Date/Time of Computation ProUCL 5.15/11/2018 11:35:36 AM
From File WorkSheet.xls
Full Precision OFF
Confidence Coefficient 95%
Number of Bootstrap Operations 2000

TCE 0-10ft

General Statistics

Total Number of Observations	209	Number of Distinct Observations	144
		Number of Missing Observations	3
Number of Detects	127	Number of Non-Detects	82
Number of Distinct Detects	112	Number of Distinct Non-Detects	40
Minimum Detect	0	Minimum Non-Detect	0
Maximum Detect	55	Maximum Non-Detect	0.21
Variance Detects	58.3	Percent Non-Detects	39.23%
Mean Detects	2.78	SD Detects	7.633
Median Detects	0.07	CV Detects	2.746
Skewness Detects	4.45	Kurtosis Detects	23.04

Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic	0.43	Normal GOF Test on Detected Observations Only	
5% Shapiro Wilk P Value	0	Detected Data Not Normal at 5% Significance Level	
Lilliefors Test Statistic	0.36	Lilliefors GOF Test	
5% Lilliefors Critical Value	0.08	Detected Data Not Normal at 5% Significance Level	
Detected Data Not Normal at 5% Significance Level			

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

KM Mean	1.69	KM Standard Error of Mean	0.422
KM SD	6.08	95% KM (BCA) UCL	2.446
95% KM (t) UCL	2.39	95% KM (Percentile Bootstrap) UCL	2.369

95% KM (z) UCL	2.38	95% KM Bootstrap t UCL	2.743
90% KM Chebyshev UCL	2.96	95% KM Chebyshev UCL	3.529
97.5% KM Chebyshev UCL	4.33	99% KM Chebyshev UCL	5.89

Gamma GOF Tests on Detected Observations Only

A-D Test Statistic	8.14	Anderson-Darling GOF Test	
5% A-D Critical Value	0.9	Detected Data Not Gamma Distributed at 5% Significance Level	
K-S Test Statistic	0.19	Kolmogorov-Smirnov GOF	
5% K-S Critical Value	0.09	Detected Data Not Gamma Distributed at 5% Significance Level	
Detected Data Not Gamma Distributed at 5% Significance Level			

Gamma Statistics on Detected Data Only

k hat (MLE)	0.24	k star (bias corrected MLE)	0.24
Theta hat (MLE)	11.6	Theta star (bias corrected MLE)	11.57
nu hat (MLE)	61.1	nu star (bias corrected)	61.03
Mean (detects)	2.78		

Estimates of Gamma Parameters using KM Estimates

Mean (KM)	1.69	SD (KM)	6.08
Variance (KM)	37	SE of Mean (KM)	0.422
k hat (KM)	0.08	k star (KM)	0.0793
nu hat (KM)	32.3	nu star (KM)	33.14
theta hat (KM)	21.9	theta star (KM)	21.31
80% gamma percentile (KM)	0.79	90% gamma percentile (KM)	3.982
95% gamma percentile (KM)	9.82	99% gamma percentile (KM)	30.04

Gamma Kaplan-Meier (KM) Statistics

		Adjusted Level of Significance (β)	0.0489
Approximate Chi Square Value (33.14, α)	21	Adjusted Chi Square Value (33.14, β)	20.91
95% Gamma Approximate KM-UCL (use when $n \geq 50$)	2.67	95% Gamma Adjusted KM-UCL (use when	2.677

Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution

KM Mean (logged)	N/A	KM Geo Mean	N/A
KM SD (logged)	N/A	95% Critical H Value (KM-Log)	N/A
KM Standard Error of Mean (logged)	N/A	95% H-UCL (KM -Log)	N/A
KM SD (logged)	N/A	95% Critical H Value (KM-Log)	N/A
KM Standard Error of Mean (logged)	N/A		

DL/2 Statistics

Mean in Original Scale	1.69	SD in Original Scale	6.094
95% t UCL (Assumes normality)	2.39		

DL/2 is not a recommended method, provided for comparisons and historical reasons

Nonparametric Distribution Free UCL Statistics

Data do not follow a Discernible Distribution at 5% Significance Level

Suggested UCL to Use

99% KM (Chebyshev) UCL	5.89
------------------------	------

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.

Recommendations are based upon data size, data distribution, and skewness.

These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).

However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

APPENDIX F
SESOIL Model

SESOIL Pollutant Cycle Report

Scenario Description: Rheem Manufacturing

SESOIL Output File: C:\SEV7 WIN7\SO1.OUT

SESOIL Process	Pollutant Mass (µg)	Percent of Total
Volatilized	1.221E+11	6.32
In Soil Air	2.422E+09	0.13
Sur. Runoff	0.000E+00	0.00
In Washld	0.000E+00	0.00
Ads On Soil	1.082E+12	55.98
Hydrol Soil	0.000E+00	0.00
Degrad Soil	0.000E+00	0.00
Pure Phase	0.000E+00	0.00
Complexed	0.000E+00	0.00
Immobile CEC	0.000E+00	0.00
Hydrol CEC	0.000E+00	0.00
In Soil Moi	1.435E+10	0.74
Hydrol Mois	0.000E+00	0.00
Degrad Mois	0.000E+00	0.00
Other Trans	0.000E+00	0.00
Other Sinks	0.000E+00	0.00
Gwr. Runoff	6.996E+11	36.18
Total Output	1.921E+12	99.34
Total Input	1.934E+12	
Input - Output	1.278E+10	

Maximum leachate concentration: 2.654E+00 mg/l

Climate File: MILLEDGEVILLE
C:\SEV7 WIN7\MILLEDGEVILLE.CLM

Chemical File: Trichloroethylene (TCE) MA DEP
c:\sev7 win7\TRICHLOROETHYLENE (TCE) MA DEP.CHM

Soil File: Clay (fine to medium)
C:\SEV7 WIN7\CLAY (FINE TO MEDIUM).SOI

Application File: SEVIEW Default Application Parameters
C:\SEV7 WIN7\RHEEM 1.APL

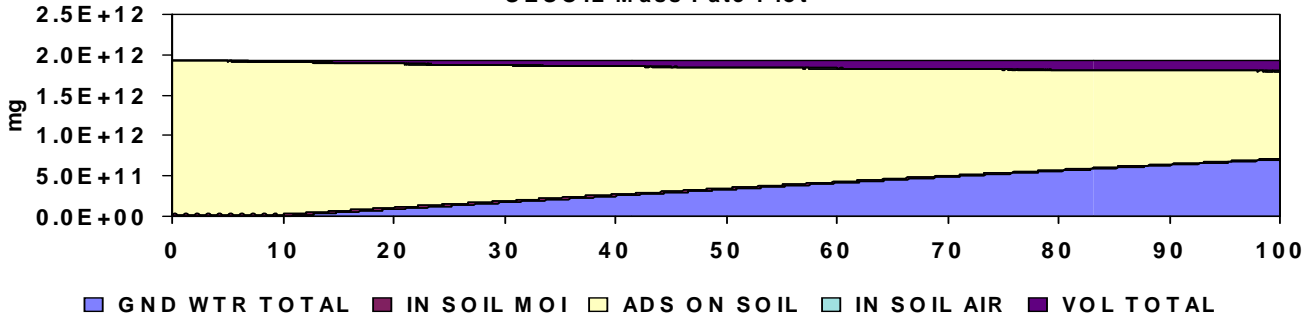
Time to Groundwater: 8.60 years

Starting Depth: 442.00 cm

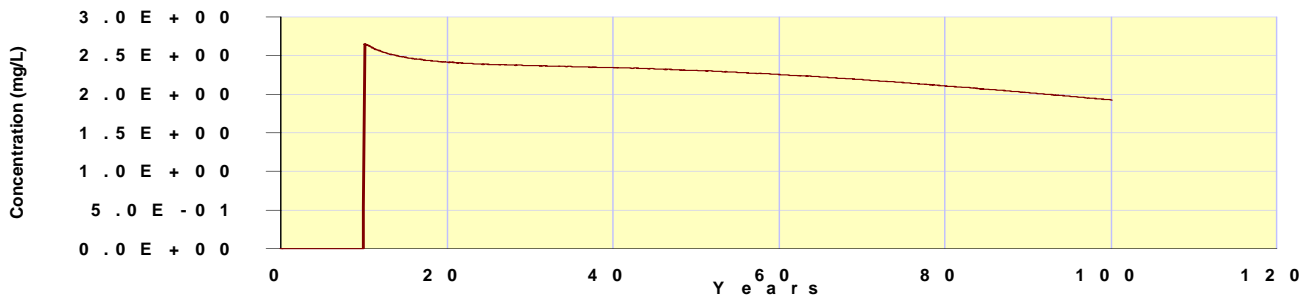
Ending Depth: 457.20 cm

Total Depth: 456.40 cm

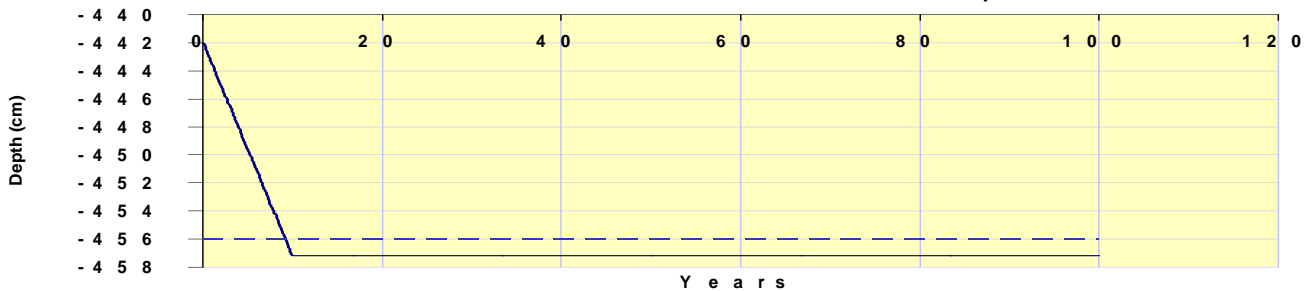
SESOIL Mass Fate Plot



Leachate Concentration



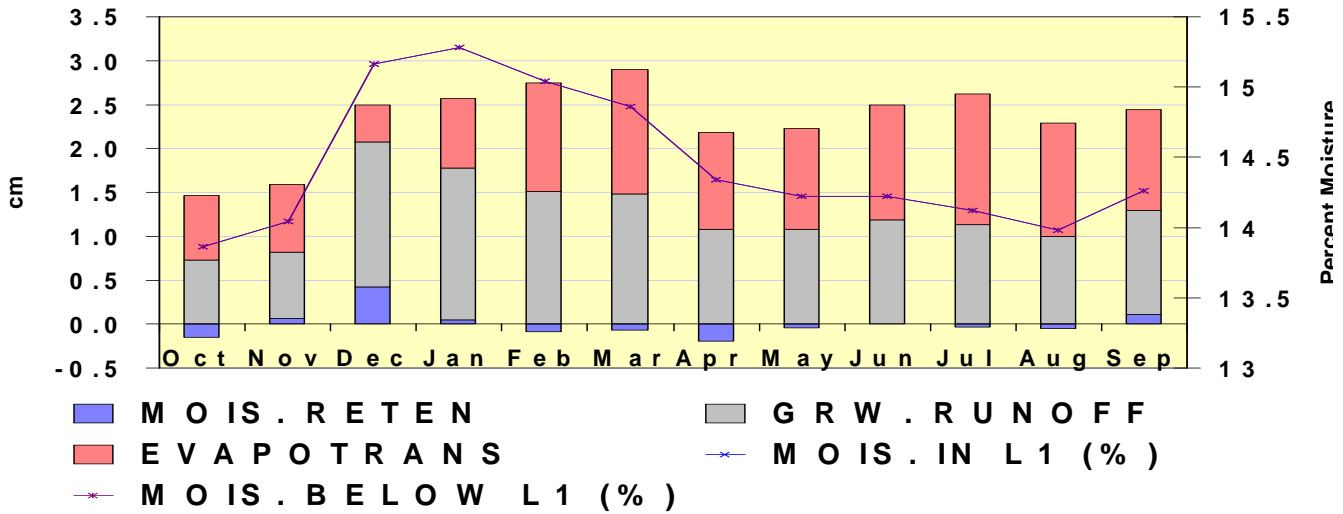
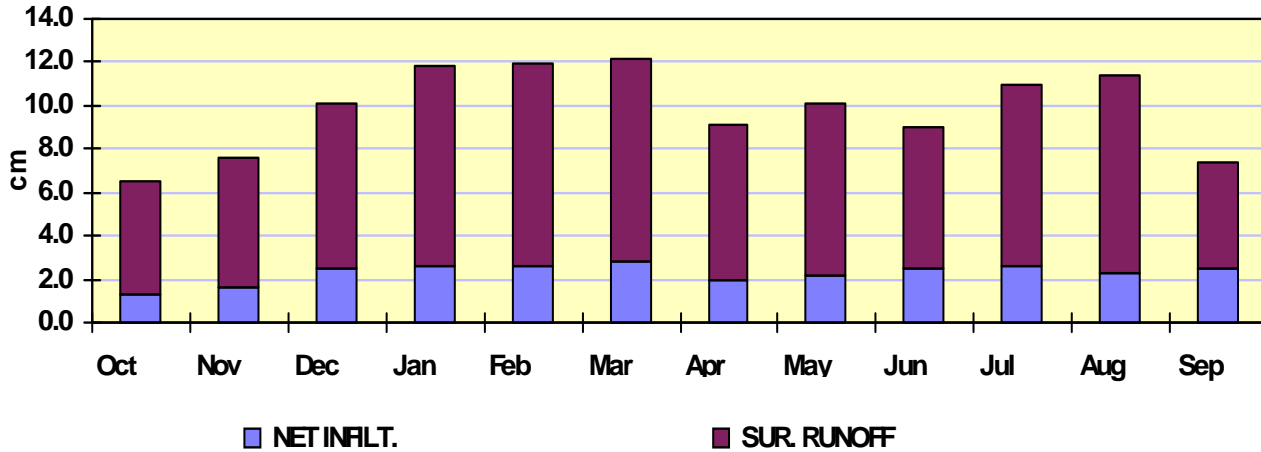
Contaminant Depth Plot



SESOIL Hydrologic Cycle Report

Scenario Description: Rheem Manufacturing

SESOIL Output File: C:\SEV7 WIN7\S01.OUT



	Surface Water Runoff		Net Infiltration		Evapotranspiration		Soil Moisture Retention		Groundwater Runoff (Recharge)		Soil Moisture	
	cm	Inches	cm	Inches	cm	Inches	cm	Inches	cm	Inches	Layer 1 Percent	Below Layer 1 Percent
Units	cm	Inches	cm	Inches	cm	Inches	cm	Inches	cm	Inches	Percent	Percent
October	5.16	2.03	1.32	0.52	0.74	0.29	-0.15	-0.06	0.73	0.29	13.86	13.86
November	6.04	2.38	1.59	0.63	0.78	0.31	0.07	0.03	0.75	0.30	14.04	14.04
December	7.64	3.01	2.49	0.98	0.42	0.17	0.43	0.17	1.65	0.65	15.16	15.16
January	9.24	3.64	2.57	1.01	0.79	0.31	0.05	0.02	1.73	0.68	15.28	15.28
February	9.30	3.66	2.66	1.05	1.24	0.49	-0.09	-0.04	1.51	0.59	15.04	15.04
March	9.37	3.69	2.83	1.11	1.42	0.56	-0.07	-0.03	1.48	0.58	14.86	14.86
April	7.12	2.80	1.98	0.78	1.10	0.43	-0.20	-0.08	1.08	0.43	14.34	14.34
May	7.96	3.13	2.18	0.86	1.14	0.45	-0.05	-0.02	1.08	0.43	14.22	14.22
June	6.56	2.58	2.50	0.98	1.31	0.52	0.00	0.00	1.19	0.47	14.22	14.22
July	8.34	3.28	2.59	1.02	1.49	0.59	-0.04	-0.02	1.14	0.45	14.12	14.12
August	9.18	3.61	2.24	0.88	1.29	0.51	-0.05	-0.02	1.00	0.39	13.98	13.98
September	4.98	1.96	2.44	0.96	1.15	0.45	0.11	0.04	1.19	0.47	14.26	14.26
Total	90.89	35.78	27.38	10.78	12.86	5.06	0.00	0.00	14.51	5.71	--	--

SESOIL Profile and Load Report

Layer No.	Number of Sub-Layers	Thickness		Intrinsic Permeability cm ²	Organic Carbon Content percent	Adsorption Coefficient $\frac{\mu\text{g/g}}{\mu\text{g/mL}}$	Cation Exchange Capacity $\frac{\text{mEq}}{100 \text{ g soil}}$	Freundlich Exponent unitless	Solid Phase Degradation Rate 1/day	Liquid Phase Degradation Rate 1/day	Soil pH pH
		cm	feet								
1	2	61.0	2.00	2.50E-10	3.60	0.00	0.00	1.00	0.00E+00	0.00E+00	7.00
2	3	91.4	3.00	2.50E-10	3.60	0.00	0.00	1.00	0.00E+00	0.00E+00	7.00
3	5	152.0	4.99	2.50E-10	3.60	0.00	0.00	1.00	0.00E+00	0.00E+00	7.00
4	5	152.0	4.99	2.50E-10	3.60	0.00	0.00	1.00	0.00E+00	0.00E+00	7.00

Soil Parameters

Bulk Density (g/cm ³)	1.80
Effective Porosity (fraction)	0.20
Soil Pore Disconnectedness	12.00

Chemical Parameters

Water Solubility (μg/mL)	1.10E+3	Moles Ligand / Moles Chemical	0.00
Henry's Law (M ³ atm/mol)	1.03E-2	Ligand Molecular Weight (g/mol)	0.00
K_{OC} Adsorp (μg/g)/(μg/mL)	166.00		
K_d Adsorp (μg/g)/(μg/mL)	0.00		
Valence (g/mole)	0.00	Ligand Dissociation Constant	0.00
Air Diffusion (cm ² /sec)	7.90E-2	Base Hydrolysis Rate (L/mol/day)	0.00
Water Diffusion (cm ² /sec)	9.10E-6	Neutral Hydrolysis (L/mol/day)	0.00
Molecular Weight (g/mol)	131.00	Acid Hydrolysis (L/mol/day)	0.00

Application Parameters

Area	cm ²	2.38E+8
	ft ²	2.56E+5
Latitude	degrees	43.0
Spill Index		1

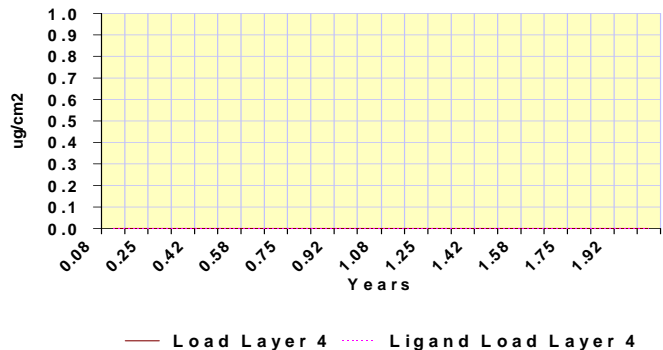
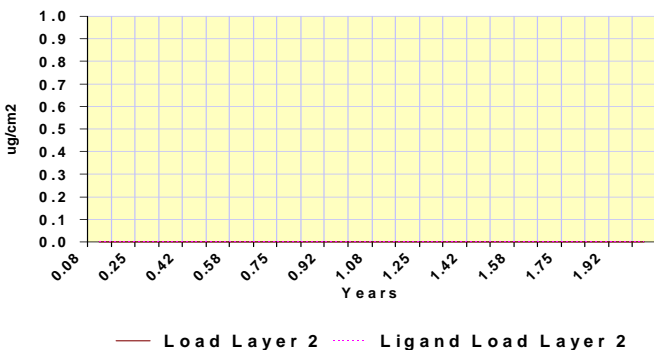
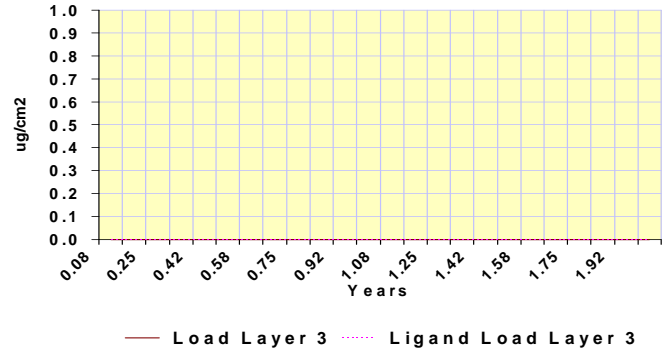
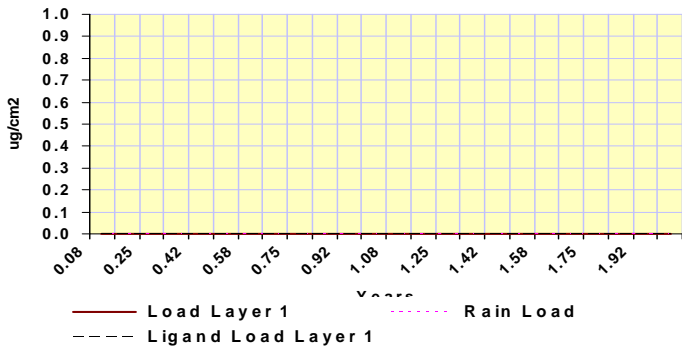
Output File: Rheem Manufacturing
C:\SEV7 WIN7\SO1.OUT

Chemical File: Trichloroethylene (TCE) MA DEP
c:\sev7 win7\TRICHLOROETHYLENE (TCE) MA DEP.CHM

Soil File: Clay (fine to medium)
C:\SEV7 WIN7\CLAY (FINE TO MEDIUM).SOI

Application File: SEVIEW Default Application Parameters
C:\SEV7 WIN7\RHEEM 1.APL

Sublayer Loads	1	2	3	4	5	6	7	8	9	10
Layer 1 (ug/g)	9.70E-01	9.70E-01								
Layer 2 (ug/g)	7.40E+00	7.40E+00	7.40E+00							
Layer 3 (ug/g)	1.24E+01	1.24E+01	1.24E+01	1.24E+01	1.24E+01					
Layer 4 (ug/g)	1.24E+01	1.24E+01	1.24E+01	1.24E+01	1.24E+01					

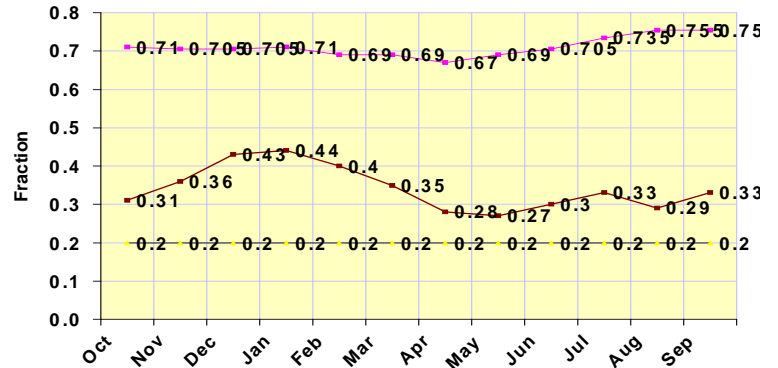


Climate Report

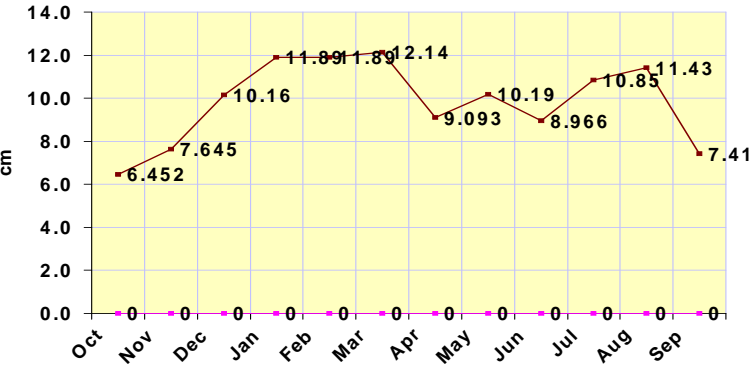
Location Description: MILLEDGEVILLE

Climatic Input File: C:\SEV7 WIN7\MILLEDGEVILLE.CLM

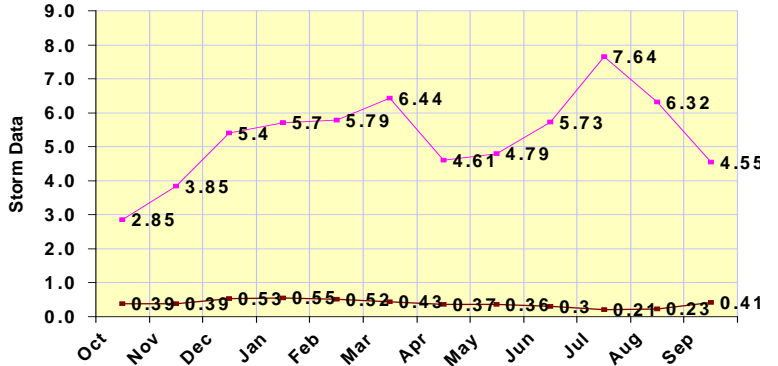
Month	Temperature		Precipitation		Evapotranspiration Rate		Storms		Cloud Cover	Albedo	Humidity
	°C	°F	cm	Inches	cm	Inches	# per Month	Length Days	Fraction	Fraction	Fraction
October	17.22	63.00	6.452	2.54	0.00	0.00	2.85	0.390	0.310	0.200	0.710
November	12.33	54.19	7.645	3.01	0.00	0.00	3.85	0.390	0.360	0.200	0.705
December	7.722	45.90	10.16	4.00	0.00	0.00	5.40	0.530	0.430	0.200	0.705
January	6.056	42.90	11.89	4.68	0.00	0.00	5.70	0.550	0.440	0.200	0.710
February	7.833	46.10	11.89	4.68	0.00	0.00	5.79	0.520	0.400	0.200	0.690
March	12.28	54.10	12.14	4.78	0.00	0.00	6.44	0.430	0.350	0.200	0.690
April	16.50	61.70	9.093	3.58	0.00	0.00	4.61	0.370	0.280	0.200	0.670
May	20.61	69.10	10.19	4.01	0.00	0.00	4.79	0.360	0.270	0.200	0.690
June	24.61	76.30	8.966	3.53	0.00	0.00	5.73	0.300	0.300	0.200	0.705
July	26.44	79.59	10.85	4.27	0.00	0.00	7.64	0.210	0.330	0.200	0.735
August	26.06	78.91	11.43	4.50	0.00	0.00	6.32	0.230	0.290	0.200	0.755
September	23.17	73.71	7.417	2.92	0.00	0.00	4.55	0.410	0.330	0.200	0.755
Total			118.12	46.51	0.00	0.00					



— Cloud Cover — Humidity — Albedo



— Monthly Precip — Evapotrans



— Length — Number of Storms

**Pro-UCL Attachment for
SESOIL Model**

TCE- Soil 0-2 ft bgs using post-SVE data

LOCATION	Parameter	val	D2	Matrix	D_val
SB-52	Trichloroethene	3.400000095	2	Soil	1
SB-55	Trichloroethene	0.140000001	2	Soil	1
SB-56	Trichloroethene	0.509999999	2	Soil	1
SB-61	Trichloroethene	1.899999976	2	Soil	1
SB-68	Trichloroethene	1.299999952	2	Soil	1
SB-66	Trichloroethene	0.005	2	Soil	0
SB-61	Trichloroethene	0.0098	1	Soil	1
SB-62	Trichloroethene	0.0033	1	Soil	0
SB-67	Trichloroethene	0.0043	1	Soil	0
SB-68	Trichloroethene	0.01	1	Soil	1
SB-70	Trichloroethene	0.0042	2	Soil	0
SB-71	Trichloroethene	0.0052	1	Soil	0
SB-71	Trichloroethene	0.0047	2	Soil	1
SB-72	Trichloroethene	0.0041	2	Soil	0
SB-75	Trichloroethene	0.0077	2	Soil	1
SB-77	Trichloroethene	0.0051	2	Soil	0
SB-78	Trichloroethene	0.0031	2	Soil	0
SCS-1	Trichloroethene	0.015000001	1	Soil	1
SCS-1	Trichloroethene	0.0034	2	Soil	0
SCS-14	Trichloroethene	0.034000002	1	Soil	1
SCS-14	Trichloroethene	0.050000001	2	Soil	1
SCS-15	Trichloroethene	0.150000006	1	Soil	1
SCS-15	Trichloroethene	0.170000002	2	Soil	1
SCS-16	Trichloroethene	1.300000072	1	Soil	1
SCS-16	Trichloroethene	0.0048	2	Soil	1
SCS-17	Trichloroethene	0.094000004	1	Soil	1
SCS-17	Trichloroethene	0.670000017	2	Soil	1
SCS-18	Trichloroethene	0.950000048	1	Soil	1
SCS-18	Trichloroethene	0.056000002	2	Soil	1
SCS-19	Trichloroethene	0.570000052	1	Soil	1
SCS-19	Trichloroethene	0.016000001	2	Soil	1
SCS-3	Trichloroethene	0.0038	1	Soil	0
SCS-3	Trichloroethene	0.0039	2	Soil	0
SCS-6	Trichloroethene	0.0032	1	Soil	0
SCS-6	Trichloroethene	0.015000001	2	Soil	1
SCS-8	Trichloroethene	0.0039	1	Soil	0
SCS-8	Trichloroethene	0.0025	2	Soil	0
SCS-9	Trichloroethene	0.0038	1	Soil	0
SCS-9	Trichloroethene	0.0045	2	Soil	0
SCS-10	Trichloroethene	0.014	1	Soil	1
SCS-10	Trichloroethene	0.081	2	Soil	1
SCS-11	Trichloroethene	0.008800001	1	Soil	1
SCS-11	Trichloroethene	0.045000002	2	Soil	1
SCS-12	Trichloroethene	0.011000001	1	Soil	1
SCS-12	Trichloroethene	0.049000002	2	Soil	1
SCS-2	Trichloroethene	0.0035	1	Soil	0
SCS-2	Trichloroethene	0.0077	2	Soil	1
SCS-4	Trichloroethene	0.0034	1	Soil	0

SCS-4	Trichloroethene	0.0047	1	Soil	0
SCS-5	Trichloroethene	0.005	1	Soil	1
SCS-5	Trichloroethene	0.034000002	2	Soil	1
SCS-7	Trichloroethene	0.210000008	1	Soil	0
SCS-7	Trichloroethene	0.037	2	Soil	1
HA-1	Trichloroethene	0	1	Soil	0
HA-2	Trichloroethene	0.00426	1	Soil	0
S-2	Trichloroethene	0.24000001	1	Soil	1
S-5	Trichloroethene	0.430000007	1	Soil	1

UCL Statistics for Data Sets with Non-Detects

User Selected Options

Date/Time of Computation ProUCL 5.15/18/2018 1:56:26 PM
 From File Soil_TCE_0-2.xls
 Full Precision OFF
 Confidence Coefficient 95%
 Number of Bootstrap Operations 2000

val

General Statistics

Total Number of Observations	57	Number of Distinct Observations	50
Number of Detects	35	Number of Non-Detects	22
Number of Distinct Detects	32	Number of Distinct Non-Detects	19
Minimum Detect	0.0047	Minimum Non-Detect	0
Maximum Detect	3.4	Maximum Non-Detect	0.21
Variance Detects	0.485	Percent Non-Detects	38.6%
Mean Detects	0.353	SD Detects	0.696
Median Detects	0.049	CV Detects	1.975
Skewness Detects	3.067	Kurtosis Detects	10.76

Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic 0.569 **Shapiro Wilk GOF Test**
 5% Shapiro Wilk Critical Value 0.934 Detected Data Not Normal at 5% Significance Level
 Lilliefors Test Statistic 0.318 **Lilliefors GOF Test**
 5% Lilliefors Critical Value 0.148 Detected Data Not Normal at 5% Significance Level

Detected Data Not Normal at 5% Significance Level

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

KM Mean	0.217	KM Standard Error of Mean	0.0758
KM SD	0.564	95% KM (BCA) UCL	0.346
95% KM (t) UCL	0.344	95% KM (Percentile Bootstrap) UCL	0.346
95% KM (z) UCL	0.342	95% KM Bootstrap t UCL	0.441
90% KM Chebyshev UCL	0.444	95% KM Chebyshev UCL	0.547
97.5% KM Chebyshev UCL	0.691	99% KM Chebyshev UCL	0.971

Gamma GOF Tests on Detected Observations Only

A-D Test Statistic	1.773	Anderson-Darling GOF Test
5% A-D Critical Value	0.836	Detected Data Not Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.2	Kolmogorov-Smirnov GOF

5% K-S Critical Value 0.159 Detected Data Not Gamma Distributed at 5% Significance Level

Detected Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics on Detected Data Only

k hat (MLE)	0.394	k star (bias corrected MLE)	0.379
Theta hat (MLE)	0.896	Theta star (bias corrected MLE)	0.93
nu hat (MLE)	27.56	nu star (bias corrected)	26.53
Mean (detects)	0.353		

Estimates of Gamma Parameters using KM Estimates

Mean (KM)	0.217	SD (KM)	0.564
Variance (KM)	0.318	SE of Mean (KM)	0.0758
k hat (KM)	0.148	k star (KM)	0.152
nu hat (KM)	16.85	nu star (KM)	17.29
theta hat (KM)	1.468	theta star (KM)	1.43
80% gamma percentile (KM)	0.238	90% gamma percentile (KM)	0.644
95% gamma percentile (KM)	1.191	99% gamma percentile (KM)	2.775

Gamma Kaplan-Meier (KM) Statistics

		Adjusted Level of Significance (β)	0.0458
Approximate Chi Square Value (17.29, α)	8.882	Adjusted Chi Square Value (17.29, β)	8.725
95% Gamma Approximate KM-UCL (use when $n \geq 50$)	0.422	95% Gamma Adjusted KM-UCL (use when $n < 50$)	0.43

Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution

KM Mean (logged)	N/A	KM Geo Mean	N/A
KM SD (logged)	N/A	95% Critical H Value (KM-Log)	N/A
KM Standard Error of Mean (logged)	N/A	95% H-UCL (KM -Log)	N/A
KM SD (logged)	N/A	95% Critical H Value (KM-Log)	N/A
KM Standard Error of Mean (logged)	N/A		

DL/2 Statistics

Mean in Original Scale	0.219	SD in Original Scale	0.569
95% t UCL (Assumes normality)	0.345		

DL/2 is not a recommended method, provided for comparisons and historical reasons

Nonparametric Distribution Free UCL Statistics

Data do not follow a Discernible Distribution at 5% Significance Level

Suggested UCL to Use

99% KM (Chebyshev) UCL 0.971

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.

Recommendations are based upon data size, data distribution, and skewness.

These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).

However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

TCE- Soil 2-5 ft bgs using post-SVE data

LOCATION	Parameter	val	D2	Matrix	D_val
SB-30	Trichloroethene	2.599999905	4	Soil	1
SB-33	Trichloroethene	29	4	Soil	1
SB-34	Trichloroethene	20	4	Soil	1
SB-51	Trichloroethene	0.0046	4	Soil	0
SB-53	Trichloroethene	6	4	Soil	1
SB-54	Trichloroethene	9.600000381	4	Soil	1
SB-57	Trichloroethene	0.061000001	4	Soil	1
SB-62	Trichloroethene	0.015	4	Soil	1
SB-58	Trichloroethene	1.700000048	4	Soil	1
SB-63	Trichloroethene	0.011	4	Soil	1
SB-64	Trichloroethene	0.0039	4	Soil	0
SB-67	Trichloroethene	0.0041	4	Soil	0
SB-74	Trichloroethene	0.170000002	4	Soil	1
SB-76	Trichloroethene	0.0052	4	Soil	0
SB-79	Trichloroethene	0.0049	3	Soil	0
SB-80	Trichloroethene	0.0047	3	Soil	0
SA-3	Trichloroethene	14	5	Soil	1
SA-4	Trichloroethene	7.5	4	Soil	1
SA-5	Trichloroethene	0.068000004	5	Soil	1
SA-8	Trichloroethene	0.0038	5	Soil	0
SA-9	Trichloroethene	0.689999998	5	Soil	1
SCS-13	Trichloroethene	0.0087	4	Soil	1
SCS-1	Trichloroethene	0.0069	4	Soil	1
SCS-14	Trichloroethene	0.0034	5	Soil	0
SCS-15	Trichloroethene	0.0055	4	Soil	1
SCS-16	Trichloroethene	0.004900001	4	Soil	1
SCS-17	Trichloroethene	0.019000001	4	Soil	1
SCS-18	Trichloroethene	0.004	4	Soil	0
SCS-19	Trichloroethene	0.004	4	Soil	0
SCS-3	Trichloroethene	0.0042	4	Soil	0
SCS-6	Trichloroethene	0.0035	4	Soil	0
SCS-8	Trichloroethene	0.0035	4	Soil	0
SCS-9	Trichloroethene	0.0038	4	Soil	0
SCS-10	Trichloroethene	0.0092	4	Soil	1
SCS-11	Trichloroethene	0.007	4	Soil	1
SCS-12	Trichloroethene	0.0042	4	Soil	0
SCS-2	Trichloroethene	0.0041	4	Soil	0
SCS-4	Trichloroethene	0.0038	4	Soil	0
SCS-5	Trichloroethene	0.0075	4	Soil	1
SCS-7	Trichloroethene	0.170000002	4	Soil	1
HA-1	Trichloroethene	0.016100001	4	Soil	1
HA-2	Trichloroethene	0.00587	4	Soil	0
S-11	Trichloroethene	0.870000064	2.5	Soil	1
S-12	Trichloroethene		2.5	Soil	0
S-12	Trichloroethene		5	Soil	0
S-13	Trichloroethene	2.600000143	2.5	Soil	1
S-13	Trichloroethene	0.210000008	5	Soil	1
S-16	Trichloroethene	2.900000095	5	Soil	1
S-17	Trichloroethene	2.200000048	2.5	Soil	1

S-18	Trichloroethene		2.5	Soil	0
S-20	Trichloroethene	0.052000001	2.5	Soil	1
SB-10	Trichloroethene	0.00335	4	Soil	0
SB-11	Trichloroethene	0.011	4	Soil	1
SB-12	Trichloroethene	0.0039	4	Soil	0
SB-13	Trichloroethene	0	4	Soil	0
SB-14	Trichloroethene	0.007	4	Soil	1
SB-1	Trichloroethene	0	5	Soil	0
SB-15	Trichloroethene	3.589999914	4	Soil	1
SB-16	Trichloroethene	0.0032	4	Soil	0
SB-17	Trichloroethene	0.0167	4	Soil	1
SB-18	Trichloroethene	0	4	Soil	0
SB-23	Trichloroethene	0.263999999	4	Soil	1
SB-2	Trichloroethene	0.063299999	4	Soil	1
SB-24	Trichloroethene	0.00295	4	Soil	0
SB-29	Trichloroethene	0.0288	4	Soil	1
SB-3	Trichloroethene	0.0197	4	Soil	1
SB-4	Trichloroethene	0.023	4	Soil	1
SB-5	Trichloroethene	0.0107	4	Soil	1
SB-6	Trichloroethene	0.82099998	4	Soil	1
SB-8	Trichloroethene	5.519999981	4	Soil	1
SB-9	Trichloroethene	0.00417	4	Soil	1

UCL Statistics for Data Sets with Non-Detects

User Selected Options

Date/Time of Computation ProUCL 5.15/18/2018 3:16:40 PM
From File Soil_TCE_2-5.xls
Full Precision OFF
Confidence Coefficient 95%
Number of Bootstrap Operations 2000

val

General Statistics

Total Number of Observations	68	Number of Distinct Observations	56
		Number of Missing Observations	3
Number of Detects	43	Number of Non-Detects	25
Number of Distinct Detects	40	Number of Distinct Non-Detects	16
Minimum Detect	0.00417	Minimum Non-Detect	0
Maximum Detect	29	Maximum Non-Detect	0.00587
Variance Detects	33.59	Percent Non-Detects	36.76%
Mean Detects	2.579	SD Detects	5.795
Median Detects	0.0633	CV Detects	2.247
Skewness Detects	3.245	Kurtosis Detects	11.4

Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic 0.522
5% Shapiro Wilk Critical Value 0.943
Lilliefors Test Statistic 0.328
5% Lilliefors Critical Value 0.134

Shapiro Wilk GOF Test

Detected Data Not Normal at 5% Significance Level

Lilliefors GOF Test

Detected Data Not Normal at 5% Significance Level

Detected Data Not Normal at 5% Significance Level

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

KM Mean	1.631	KM Standard Error of Mean	0.579
KM SD	4.721	95% KM (BCA) UCL	2.903
95% KM (t) UCL	2.597	95% KM (Percentile Bootstrap) UCL	2.607
95% KM (z) UCL	2.584	95% KM Bootstrap t UCL	3.388
90% KM Chebyshev UCL	3.369	95% KM Chebyshev UCL	4.156
97.5% KM Chebyshev UCL	5.248	99% KM Chebyshev UCL	7.395

Gamma GOF Tests on Detected Observations Only

A-D Test Statistic	2.561	Anderson-Darling GOF Test
5% A-D Critical Value	0.886	Detected Data Not Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.219	Kolmogorov-Smirnov GOF
5% K-S Critical Value	0.148	Detected Data Not Gamma Distributed at 5% Significance Level

Detected Data Not Gamma Distributed at 5% Significance Level**Gamma Statistics on Detected Data Only**

k hat (MLE)	0.248	k star (bias corrected MLE)	0.246
Theta hat (MLE)	10.39	Theta star (bias corrected MLE)	10.46
nu hat (MLE)	21.35	nu star (bias corrected)	21.2
Mean (detects)	2.579		

Estimates of Gamma Parameters using KM Estimates

Mean (KM)	1.631	SD (KM)	4.721
Variance (KM)	22.29	SE of Mean (KM)	0.579
k hat (KM)	0.119	k star (KM)	0.124
nu hat (KM)	16.22	nu star (KM)	16.84
theta hat (KM)	13.67	theta star (KM)	13.17
80% gamma percentile (KM)	1.481	90% gamma percentile (KM)	4.659
95% gamma percentile (KM)	9.266	99% gamma percentile (KM)	23.22

Gamma Kaplan-Meier (KM) Statistics

		Adjusted Level of Significance (β)	0.0465
Approximate Chi Square Value (16.84, α)	8.559	Adjusted Chi Square Value (16.84, β)	8.431
95% Gamma Approximate KM-UCL (use when $n \geq 50$)	3.209	95% Gamma Adjusted KM-UCL (use when $n < 50$)	3.257

Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution

KM Mean (logged)	N/A	KM Geo Mean	N/A
KM SD (logged)	N/A	95% Critical H Value (KM-Log)	N/A
KM Standard Error of Mean (logged)	N/A	95% H-UCL (KM -Log)	N/A
KM SD (logged)	N/A	95% Critical H Value (KM-Log)	N/A
KM Standard Error of Mean (logged)	N/A		

DL/2 Statistics

Mean in Original Scale	1.631	SD in Original Scale	4.756
95% t UCL (Assumes normality)	2.593		

DL/2 is not a recommended method, provided for comparisons and historical reasons**Nonparametric Distribution Free UCL Statistics****Data do not follow a Discernible Distribution at 5% Significance Level****Suggested UCL to Use**

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. Recommendations are based upon data size, data distribution, and skewness.

These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).

However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

TCE- Soil 5-10 ft bgs using post-SVE data

LOCATION	Parameter	val	D2	Matrix	D_val
SB-30	Trichloroethene	55	10	Soil	1
SB-33	Trichloroethene	21	10	Soil	1
SB-34	Trichloroethene	41	10	Soil	1
SB-51	Trichloroethene	0.0059	10	Soil	0
SB-52	Trichloroethene	11	8	Soil	1
SB-53	Trichloroethene	2.3	8	Soil	1
SB-54	Trichloroethene	0.51	10	Soil	1
SB-55	Trichloroethene	0.17	8	Soil	0
SB-56	Trichloroethene	0.083	10	Soil	1
SB-57	Trichloroethene	0.4	8	Soil	1
SB-58	Trichloroethene	1.5	6	Soil	1
SB-59	Trichloroethene	8.9	10	Soil	1
SB-61	Trichloroethene	16	10	Soil	1
SB-62	Trichloroethene	0.0054	8	Soil	0
SB-63	Trichloroethene	0.1	10	Soil	1
SB-64	Trichloroethene	0.0045	8	Soil	0
SB-66	Trichloroethene	0.0047	6	Soil	0
SB-67	Trichloroethene	0.0047	6	Soil	0
SB-68	Trichloroethene	0.051	10	Soil	1
SB-69	Trichloroethene	2.4	6	Soil	1
SB-70	Trichloroethene	0.0036	8	Soil	0
SB-71	Trichloroethene	0.21	8	Soil	0
SB-72	Trichloroethene	0.024	10	Soil	1
SB-73	Trichloroethene	0.015	10	Soil	1
SB-73	Trichloroethene	0.02	6	Soil	1
SB-74	Trichloroethene	9.5	6	Soil	1
SB-75	Trichloroethene	0.0092	8	Soil	1
SB-76	Trichloroethene	0.0036	10	Soil	0
SB-77	Trichloroethene	0.0041	8	Soil	0
SB-78	Trichloroethene	0.0042	10	Soil	0
SB-79	Trichloroethene	0.004	9	Soil	0
SB-80	Trichloroethene	0.0048	6	Soil	0
SA-3	Trichloroethene	27	10	Soil	1
SA-4	Trichloroethene	7.6	10	Soil	1
SA-5	Trichloroethene	0.15	10	Soil	1
SA-8	Trichloroethene	0.0031	8	Soil	1
SA-9	Trichloroethene	5	9	Soil	1
SCS-13	Trichloroethene	0.005	8	Soil	0
SCS-14	Trichloroethene	0.0039	7	Soil	0
SCS-15	Trichloroethene	0.004	10	Soil	0
SCS-16	Trichloroethene	0.0035	8	Soil	0
SCS-17	Trichloroethene	0.0042	8	Soil	1
SCS-1	Trichloroethene	0.0034	8	Soil	0
SCS-18	Trichloroethene	0.0053	8	Soil	0
SCS-19	Trichloroethene	0.0038	8	Soil	1
SCS-3	Trichloroethene	0.0037	8	Soil	0
SCS-6	Trichloroethene	0.0066	8	Soil	1
SCS-8	Trichloroethene	0.0038	8	Soil	0
SCS-9	Trichloroethene	0.0034	8	Soil	0
SCS-10	Trichloroethene	0.015	8	Soil	1
SCS-11	Trichloroethene	0.015	8	Soil	1

SCS-12	Trichloroethene	0.011	8	Soil	1
SCS-2	Trichloroethene	0.0037	8	Soil	0
SCS-4	Trichloroethene	0.0037	8	Soil	0
SCS-5	Trichloroethene	0.0037	8	Soil	0
SCS-7	Trichloroethene	3.1	8	Soil	1
S-13	Trichloroethene	0.092	10	Soil	1
S-13	Trichloroethene	0.33	7.5	Soil	1
S-3	Trichloroethene	4	6	Soil	1
S-3	Trichloroethene	0.55	8	Soil	1
SB-10	Trichloroethene	0.00325	6	Soil	0
SB-11	Trichloroethene	0.053	8	Soil	1
SB-12	Trichloroethene	0.0046	6	Soil	0
SB-13	Trichloroethene	0.00363	8	Soil	0
SB-14	Trichloroethene	0.00664	10	Soil	1
SB-15	Trichloroethene	6.56	8	Soil	1
SB-16	Trichloroethene	0.00443	8	Soil	0
SB-17	Trichloroethene	0.0041	8	Soil	0
SB-18	Trichloroethene	0.816	6	Soil	1
SB-1	Trichloroethene	0.00977	9	Soil	1
SB-23	Trichloroethene	0.00322	8	Soil	0
SB-24	Trichloroethene	0.0352	8	Soil	1
SB-2	Trichloroethene	0.0658	8	Soil	1
SB-28	Trichloroethene	0.0113	8	Soil	1
SB-29	Trichloroethene	0.243	8	Soil	1
SB-3	Trichloroethene	0.016	8	Soil	1
SB-4	Trichloroethene	0.00936	10	Soil	1
SB-5	Trichloroethene	0.00441	10	Soil	0
SB-6	Trichloroethene	0.326	8	Soil	1
SB-8	Trichloroethene	3.84	8	Soil	1
SB-9	Trichloroethene	0	10	Soil	0

UCL Statistics for Data Sets with Non-Detects

User Selected Options

Date/Time of Computation ProUCL 5.15/18/2018 3:35:55 PM
From File Soil_TCE_5-10.xls
Full Precision OFF
Confidence Coefficient 95%
Number of Bootstrap Operations 2000

val

General Statistics

Total Number of Observations	81	Number of Distinct Observations	70
Number of Detects	48	Number of Non-Detects	33
Number of Distinct Detects	47	Number of Distinct Non-Detects	25
Minimum Detect	0.0031	Minimum Non-Detect	0
Maximum Detect	55	Maximum Non-Detect	0.21
Variance Detects	117.1	Percent Non-Detects	40.74%
Mean Detects	4.785	SD Detects	10.82
Median Detects	0.197	CV Detects	2.262
Skewness Detects	3.293	Kurtosis Detects	11.65

Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic	0.517
5% Shapiro Wilk Critical Value	0.947
Lilliefors Test Statistic	0.329
5% Lilliefors Critical Value	0.127

Shapiro Wilk GOF Test

Detected Data Not Normal at 5% Significance Level

Lilliefors GOF Test

Detected Data Not Normal at 5% Significance Level

Detected Data Not Normal at 5% Significance Level

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

KM Mean	2.837	KM Standard Error of Mean	0.963
KM SD	8.572	95% KM (BCA) UCL	4.485
95% KM (t) UCL	4.438	95% KM (Percentile Bootstrap) UCL	4.572
95% KM (z) UCL	4.42	95% KM Bootstrap t UCL	5.503
90% KM Chebyshev UCL	5.724	95% KM Chebyshev UCL	7.032
97.5% KM Chebyshev UCL	8.848	99% KM Chebyshev UCL	12.41

Gamma GOF Tests on Detected Observations Only

A-D Test Statistic	2.092
5% A-D Critical Value	0.891
K-S Test Statistic	0.174
5% K-S Critical Value	0.141

Anderson-Darling GOF Test

Detected Data Not Gamma Distributed at 5% Significance Level

Kolmogorov-Smirnov GOF

Detected Data Not Gamma Distributed at 5% Significance Level

Detected Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics on Detected Data Only

k hat (MLE)	0.242	k star (bias corrected MLE)	0.241
Theta hat (MLE)	19.73	Theta star (bias corrected MLE)	19.84
nu hat (MLE)	23.28	nu star (bias corrected)	23.16
Mean (detects)	4.785		

Estimates of Gamma Parameters using KM Estimates

Mean (KM)	2.837	SD (KM)	8.572
Variance (KM)	73.48	SE of Mean (KM)	0.963
k hat (KM)	0.11	k star (KM)	0.114
nu hat (KM)	17.74	nu star (KM)	18.42
theta hat (KM)	25.9	theta star (KM)	24.95
80% gamma percentile (KM)	2.335	90% gamma percentile (KM)	7.91
95% gamma percentile (KM)	16.29	99% gamma percentile (KM)	42.22

Gamma Kaplan-Meier (KM) Statistics

		Adjusted Level of Significance (β)	0.047
Approximate Chi Square Value (18.42, α)	9.692	Adjusted Chi Square Value (18.42, β)	9.577
95% Gamma Approximate KM-UCL (use when $n \geq 50$)	5.39	95% Gamma Adjusted KM-UCL (use when $n < 50$)	5.454

Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution

KM Mean (logged)	N/A	KM Geo Mean	N/A
KM SD (logged)	N/A	95% Critical H Value (KM-Log)	N/A
KM Standard Error of Mean (logged)	N/A	95% H-UCL (KM -Log)	N/A
KM SD (logged)	N/A	95% Critical H Value (KM-Log)	N/A
KM Standard Error of Mean (logged)	N/A		

DL/2 Statistics

Mean in Original Scale	2.839	SD in Original Scale	8.625
95% t UCL (Assumes normality)	4.433		

DL/2 is not a recommended method, provided for comparisons and historical reasons

Nonparametric Distribution Free UCL Statistics

Data do not follow a Discernible Distribution at 5% Significance Level

Suggested UCL to Use

99% KM (Chebyshev) UCL

12.41

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.

Recommendations are based upon data size, data distribution, and skewness.

These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).

However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

TCE- Soil 10-15 ft bgs using post-SVE data

LOCATION	Parameter	val	D2	Matrix	D_val
SB-30	Trichloroethene	88	14	Soil	1
SB-33	Trichloroethene	52	14	Soil	1
SB-34	Trichloroethene	62	14	Soil	1
SB-51	Trichloroethene	0.0054	15	Soil	0
SB-52	Trichloroethene	7.199999809	14	Soil	1
SB-53	Trichloroethene	1.799999952	12	Soil	1
SB-54	Trichloroethene	0.939999998	12	Soil	1
SB-55	Trichloroethene	0.150000006	14	Soil	1
SB-56	Trichloroethene	0.360000014	14	Soil	1
SB-58	Trichloroethene	0.819999993	12	Soil	1
SB-61	Trichloroethene	26	14	Soil	1
SB-62	Trichloroethene	0.024	12	Soil	1
SB-63	Trichloroethene	0.49000001	14	Soil	1
SB-64	Trichloroethene	0.0037	14	Soil	0
SB-66	Trichloroethene	0.0041	12	Soil	0
SB-67	Trichloroethene	0.0034	12	Soil	0
SB-68	Trichloroethene	0.310000002	14	Soil	1
SB-70	Trichloroethene	0.0039	14	Soil	0
SB-71	Trichloroethene	0.150000006	12	Soil	1
SB-72	Trichloroethene	0.0049	14	Soil	0
SB-74	Trichloroethene	1.700000048	14	Soil	1
SB-75	Trichloroethene	0.0068	12	Soil	1
SB-76	Trichloroethene	0.0039	14	Soil	0
SB-77	Trichloroethene	0.0037	14	Soil	0
SB-78	Trichloroethene	0.0096	14	Soil	1
SB-80	Trichloroethene	0.0045	12	Soil	0
SA-3	Trichloroethene	21	15	Soil	1
SA-4	Trichloroethene	5.599999905	15	Soil	1
SA-5	Trichloroethene	0.170000002	12	Soil	1
SA-8	Trichloroethene	0.086999997	14	Soil	1
SA-9	Trichloroethene	4.699999809	12	Soil	1
SCS-14	Trichloroethene	0.007800001	12	Soil	1
SCS-15	Trichloroethene	0.009300001	14	Soil	1
SCS-16	Trichloroethene	0.012	12	Soil	1
SCS-17	Trichloroethene	0.045000002	13	Soil	1
SCS-18	Trichloroethene	0.0031	13	Soil	0
SCS-19	Trichloroethene	0.0037	13	Soil	0
SCS-3	Trichloroethene	0.0035	13	Soil	0
SCS-6	Trichloroethene	0.007800001	13	Soil	1
SCS-8	Trichloroethene	0.0037	13	Soil	0
SCS-9	Trichloroethene	0.0037	13	Soil	0
SCS-10	Trichloroethene	0.0036	13	Soil	0
SCS-11	Trichloroethene	0.017000001	13	Soil	1
SCS-1	Trichloroethene	0.0037	13	Soil	0
SCS-12	Trichloroethene	0.0044	13	Soil	0
SCS-2	Trichloroethene	0.0033	13	Soil	0
SCS-4	Trichloroethene	0.0032	13	Soil	0
SCS-5	Trichloroethene	0.0037	13	Soil	0
SCS-7	Trichloroethene	0.0064	13	Soil	0

S-16	Trichloroethene	0.690000057	15	Soil	1
SB-10	Trichloroethene	0.00422	12	Soil	0
SB-11	Trichloroethene	0.071900003	14	Soil	1
SB-1	Trichloroethene	0.838999987	12	Soil	1
SB-12	Trichloroethene	0.00426	14	Soil	0
SB-13	Trichloroethene	0.00399	12	Soil	0
SB-14	Trichloroethene	2.5	14	Soil	1
SB-15	Trichloroethene	37	12	Soil	1
SB-16	Trichloroethene	0.00593	12	Soil	1
SB-17	Trichloroethene	0.00403	12	Soil	0
SB-2	Trichloroethene	0.083700001	12	Soil	1
SB-23	Trichloroethene	1.169999957	13	Soil	1
SB-24	Trichloroethene	0.252999991	14	Soil	1
SB-28	Trichloroethene	0.00874	14	Soil	1
SB-29	Trichloroethene	1.980000019	14	Soil	1
SB-3	Trichloroethene	0.324999988	14	Soil	1
SB-4	Trichloroethene	0.00953	14	Soil	1
SB-5	Trichloroethene	0.00471	14	Soil	0
SB-6	Trichloroethene	0.166999996	12	Soil	1
SB-8	Trichloroethene	1.649999976	14	Soil	1
SB-9	Trichloroethene	0.00351	12	Soil	0

UCL Statistics for Data Sets with Non-Detects

User Selected Options

Date/Time of Computation ProUCL 5.15/18/2018 3:15:43 PM
From File Soil_TCE_10-15.xls
Full Precision OFF
Confidence Coefficient 95%
Number of Bootstrap Operations 2000

val

General Statistics

Total Number of Observations	70	Number of Distinct Observations	62
Number of Detects	43	Number of Non-Detects	27
Number of Distinct Detects	41	Number of Distinct Non-Detects	21
Minimum Detect	0.00593	Minimum Non-Detect	0.0031
Maximum Detect	88	Maximum Non-Detect	0.0064
Variance Detects	345.7	Percent Non-Detects	38.57%
Mean Detects	7.45	SD Detects	18.59
Median Detects	0.325	CV Detects	2.496
Skewness Detects	3.093	Kurtosis Detects	9.617
Mean of Logged Detects	-1.021	SD of Logged Detects	2.831

Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic 0.471
5% Shapiro Wilk Critical Value 0.943
Lilliefors Test Statistic 0.396
5% Lilliefors Critical Value 0.134

Shapiro Wilk GOF Test

Detected Data Not Normal at 5% Significance Level

Lilliefors GOF Test

Detected Data Not Normal at 5% Significance Level

Detected Data Not Normal at 5% Significance Level

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

KM Mean	4.578	KM Standard Error of Mean	1.796
KM SD	14.85	95% KM (BCA) UCL	7.492
95% KM (t) UCL	7.572	95% KM (Percentile Bootstrap) UCL	7.712
95% KM (z) UCL	7.532	95% KM Bootstrap t UCL	9.171
90% KM Chebyshev UCL	9.966	95% KM Chebyshev UCL	12.41
97.5% KM Chebyshev UCL	15.79	99% KM Chebyshev UCL	22.45

Gamma GOF Tests on Detected Observations Only

A-D Test Statistic	2.452
5% A-D Critical Value	0.892
K-S Test Statistic	0.203
5% K-S Critical Value	0.149

Anderson-Darling GOF Test

Detected Data Not Gamma Distributed at 5% Significance Level

Kolmogorov-Smirnov GOF

Detected Data Not Gamma Distributed at 5% Significance Level

Detected Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics on Detected Data Only

k hat (MLE)	0.237	k star (bias corrected MLE)	0.236
Theta hat (MLE)	31.49	Theta star (bias corrected MLE)	31.63
nu hat (MLE)	20.34	nu star (bias corrected)	20.26
Mean (detects)	7.45		

Gamma ROS Statistics using Imputed Non-Detects

GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs

GROS may not be used when kstar of detects is small such as <1.0, especially when the sample size is small (e.g., <15-20)

For such situations, GROS method may yield incorrect values of UCLs and BTVs

This is especially true when the sample size is small.

For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates

Minimum	0.00593	Mean	4.581
Maximum	88	Median	0.011
SD	14.96	CV	3.266
k hat (MLE)	0.189	k star (bias corrected MLE)	0.191
Theta hat (MLE)	24.22	Theta star (bias corrected MLE)	24.04
nu hat (MLE)	26.48	nu star (bias corrected)	26.67
Adjusted Level of Significance (β)	0.0466		
Approximate Chi Square Value (26.67, α)	15.9	Adjusted Chi Square Value (26.67, β)	15.72
95% Gamma Approximate UCL (use when $n \geq 50$)	7.685	95% Gamma Adjusted UCL (use when $n < 50$)	7.77

Estimates of Gamma Parameters using KM Estimates

Mean (KM)	4.578	SD (KM)	14.85
Variance (KM)	220.6	SE of Mean (KM)	1.796
k hat (KM)	0.095	k star (KM)	0.1
nu hat (KM)	13.3	nu star (KM)	14.07
theta hat (KM)	48.18	theta star (KM)	45.57
80% gamma percentile (KM)	3.198	90% gamma percentile (KM)	12.21
95% gamma percentile (KM)	26.56	99% gamma percentile (KM)	72.55

Gamma Kaplan-Meier (KM) Statistics

Approximate Chi Square Value (14.07, α)	6.616	Adjusted Chi Square Value (14.07, β)	6.508
95% Gamma Approximate KM-UCL (use when $n \geq 50$)	9.732	95% Gamma Adjusted KM-UCL (use when $n < 50$)	9.893

Lognormal GOF Test on Detected Observations Only

Shapiro Wilk Test Statistic	0.939
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Shapiro Wilk GOF Test

5% Shapiro Wilk Critical Value	0.943
Lilliefors Test Statistic	0.0945
5% Lilliefors Critical Value	0.134

Detected Data Not Lognormal at 5% Significance Level

Lilliefors GOF Test

Detected Data appear Lognormal at 5% Significance Level

Detected Data appear Approximate Lognormal at 5% Significance Level

Lognormal ROS Statistics Using Imputed Non-Detects

Mean in Original Scale	4.577	Mean in Log Scale	-3.607
SD in Original Scale	14.96	SD in Log Scale	3.995
95% t UCL (assumes normality of ROS data)	7.558	95% Percentile Bootstrap UCL	7.853
95% BCA Bootstrap UCL	8.951	95% Bootstrap t UCL	9.986
95% H-UCL (Log ROS)	875.5		

Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution

KM Mean (logged)	-2.855	KM Geo Mean	0.0576
KM SD (logged)	3.189	95% Critical H Value (KM-Log)	3.842
KM Standard Error of Mean (logged)	0.386	95% H-UCL (KM -Log)	40.58
KM SD (logged)	3.189	95% Critical H Value (KM-Log)	3.842
KM Standard Error of Mean (logged)	0.386		

DL/2 Statistics

DL/2 Normal

Mean in Original Scale	4.577
SD in Original Scale	14.96
95% t UCL (Assumes normality)	7.558

DL/2 Log-Transformed

Mean in Log Scale	-3.029
SD in Log Scale	3.377
95% H-Stat UCL	76.81

DL/2 is not a recommended method, provided for comparisons and historical reasons

Nonparametric Distribution Free UCL Statistics

Detected Data appear Approximate Lognormal Distributed at 5% Significance Level

Suggested UCL to Use

95% KM (Chebyshev) UCL 12.41

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.

Recommendations are based upon data size, data distribution, and skewness.

These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).

However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

APPENDIX G
Vapor Intrusion Evaluation

G1 VAPOR INTRUSION EVALUATION

G1.1 Overview

Vapor intrusion involves the migration of vapors from the subsurface (soil or groundwater), through the soil and into an overlying building. EPA's guidance¹ regarding vapor intrusion recommends collecting and weighing multiple lines of evidence when evaluating the potential risk due to vapor intrusion. EPA endorses the use of the Vapor Intrusion Screening Level (VISL) calculator for vapor intrusion evaluation. VISL is an online tool that provides generally recommended screening-level concentrations for groundwater, soil gas (exterior to buildings and sub-slab) and indoor air for specified target risk levels and exposure scenarios. The VISL online tool will also calculate excess lifetime cancer risk (ELCR) and hazard quotient (HQ) values due to concentrations observed in groundwater, soil gas, or indoor air. According to the EPA, the allowable risk range (ELCR) is 10^{-6} to 10^{-4} , and the allowable range for hazard is 0.1 - 3. This risk evaluation ultimately uses an allowable risk of 10^{-5} and a hazard quotient of 1 in accordance with EPD practices.

Elevated concentrations of VOCs are present in groundwater at the Site, which leads to the potential for vapor intrusion. Once vapors leave the groundwater, they migrate through the vadose zone. In this zone the soil gas can be sampled to determine if vapors are present. The vapors may then migrate through building foundations into a building. Indoor air samples can be taken to determine if vapors are present at potentially unsafe levels. Groundwater and soil gas samples have been collected at both the Facility and downgradient from the Facility. The downgradient area can be divided into the East area (east of Roberson Mill Road) and the West area (west of Roberson Mill Road), since impacted groundwater in the area west of Roberson Mill Road is beneath a substantial (> 40 ft) lens of clean water; thus, vapor intrusion is an incomplete pathway in this area.

The vapor intrusion screening process below compares maximum groundwater and soil gas concentrations to applicable VISL screening levels to determine chemicals-of-concern (COC). For each COC, the 95% upper confidence limit on the mean (95% UCL)² of the constituent concentration within a given area, is used as the representative soil gas concentration for final VISL comparison.

¹ USEPA. 2015. OSWER Technical Guide for Assessing and Mitigating the Vapor Intrusion Pathway from Subsurface Vapor Sources to Indoor Air. June.

² Determined using EPA's ProUCL software

G1.1.1 Groundwater

Maximum groundwater concentrations in the three areas of the Site were compared to VISL Target Groundwater Concentrations (TGCs) based on an ELCR of 10^{-5} and an HQ of 1 (Table G-1, attached). Constituents exceeding the TGCs are considered COC_{GW}. Based on this screening, the following constituents are COC_{GW}:

Facility: 1,1,2-trichloroethane, 1,1-dichloroethene, benzene, chlorobenzene, Freon-12, trichloroethene (TCE), and vinyl chloride
Downgradient East: TCE, vinyl chloride
Downgradient West: TCE

G1.1.2 Soil Gas

Maximum soil gas concentrations in the three areas of the Site were compared to VISL Target Exterior Soil Gas Concentrations (TESGCs) based on an ELCR of 10^{-5} and an HQ of 1 (Table G-2). Constituents exceeding the TESGCs are considered COC_{SG}. Based on this screening, the following constituents are COC_{SG}:

Facility: 1,1-dichloroethene, chloroform, PCE, and TCE
Downgradient East: benzene
Downgradient West: none

G1.2 Risk Evaluation

G1.2.1 Facility

Groundwater and soil gas concentrations exceed the VISL screening values for several constituents at the Facility. Since soil gas data is more indicative of a potential risk as it is closer to the potential area of exposure than groundwater, the risk evaluation was conducted using the soil gas data only. The VISL online calculator was used to determine the ELCR and HQ for each COC_{SG}. The 95% UCL was used as the representative soil gas concentration. The UCL output is presented in Attachment G-1, and a summary of the results is shown in Table G3. The 95% UCLs for TCE and chloroform exceed the 10^{-5} ELCR, and the 95% UCLs for TCE and 1,1-dichloroethene exceed the HQ of 1. Subsequently, the sums of the ELCRs and HQs for the Facility COC_{SG} also exceeded 10^{-5} and 1, respectively. The ELCR and HQ at the Facility exceed the EPA's allowable risk range; however, based on indoor air sampling (EPS May 2016), the sub-slab depressurization system appears to be mitigating the vapor intrusion risk.

G1.2.2 Downgradient East and West

Groundwater concentrations exceed the VISL screening values for TCE and vinyl chloride in the downgradient East area and for TCE in the downgradient West area. However, these groundwater impacts are beneath 20 to >40 feet of clean groundwater.

Since soil gas data is more indicative of a potential risk as it is closer to the ground surface where vapor intrusion would hypothetically occur, the risk evaluation was conducted using the soil gas data only. Benzene to the East, was the only COC_{SG} in either downgradient area. The VISL online calculator was used to determine the ELCR and HQ for benzene using the 95% UCL as its representative concentration. The benzene 95% UCL does not exceed a 10^{-5} ELCR or an HQ of 1. For the downgradient West area, no constituents exceeded the VISLs, and therefore, there does not appear to be a vapor intrusion risk.

G1.3 Summary

Facility soil gas concentrations exceed EPD's established ELCR and HQ. However, based on indoor air sampling (EPS May 2016), the sub-slab depressurization system appears to be mitigating the vapor intrusion risk. Furthermore, release area soil concentrations have decreased significantly since the soil gas samples have been collected and ongoing groundwater remediation is expected to significantly decrease groundwater concentrations moving forward, both of which will reduce the potential for further vapor intrusion.

Vapor intrusion risk downgradient from the Facility does not exceed EPD's established ELCR or HQ, and therefore, there does not appear to be a vapor intrusion risk. It is of note that the constituents with elevated soil gas concentrations at the Facility are mostly chlorinated ethenes and those with elevated soil concentrations downgradient from the Facility are mostly petroleum hydrocarbons. The presence of these petroleum hydrocarbons is unrelated to the Site and appears to instead be related to petroleum hydrocarbon releases at two nearby leaking underground storage tank (LUST) sites.

Table G1. Screening of recent groundwater data

Parameter	Max GW 2016-2017 (µg/L)	VISL Target Groundwater Concentration 10-5; HQ 1	
		Residential (µg/L)	Commercial (µg/L)
On-Site			
1,1,2-Trichloroethane	61	6.19	26
1,1-Dichloroethene	4200	195	821
1,2-Dichloroethane	5	22.4	97.8
Acetone	1100	22500000	94500000
Benzene	4600	15.9	69.3
Chlorobenzene	4500	410	1720
Chloroform	25	8.14	35.5
cis-1,2-Dichloroethene	24000	-	-
Dichloromethane (Methylene chloride)	12	4710	19800
Freon-12	150	7.44	31.2
Tetrachloroethene	240	57.6	242
Toluene	4600	19200	80700
trans-1,2-Dichloroethene	73	-	-
Trichloroethene	260000	5.18	21.8
Vinyl chloride	150	1.47	24.5
Off-Site East			
cis-1,2-Dichloroethene	64	-	-
Dichloromethane (Methylene chloride)	8	4710	19800
Trichloroethene	170	5.18	21.8
Vinyl chloride	41	1.47	24.5
Off-Site West			
Trichloroethene	66	5.18	21.8


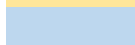
 On-Site above Commercial value
 Off-Site above Residential value

Table G2. Screening of recent soil gas data

Parameter	2016-2017 Max Soil Gas ($\mu\text{g}/\text{m}^3$)	VISL Target Soil Gas Concentration 10-5; HQ 1	
		Residential ($\mu\text{g}/\text{m}^3$)	Commercial ($\mu\text{g}/\text{m}^3$)
On-Site			
1,1,1-Trichloroethane	110	174000	730000
1,1-Dichloroethene	290000	6950	29200
1,2,4-Trimethylbenzene	15	2090	8760
1,3,5-Trimethylbenzene	8	2090	8760
2-Butanone (MEK)	3	174000	730000
Benzene	280	120	524
Carbon disulfide	7	24300	102000
Carbon tetrachloride	130	156	681
Chloroform	2200	40.7	178
Chloromethane	2	3130	13100
cis-1,2-Dichloroethene	46000	--	--
Dichloromethane (Methylene chloride)	1	20900	87600
Ethyl benzene	270	374	1640
Freon-11	2	-	-
Freon-12	6	3480	14600
m&p-Xylene	530	3480	14600
o-Xylene	150	3480	14600
Tetrachloroethene	13000	1390	5840
Toluene	2100	174000	730000
trans-1,2-Dichloroethene	10000	--	--
Trichloroethene	1700000	69.5	292
Off-Site East of Road			
1,2,4-Trimethylbenzene	150	2090	8760
1,2-Dichloroethane	12	36	157
1,3,5-Trimethylbenzene	62	2090	8760
2-Butanone (MEK)	150	174000	730000
2-Hexanone	14	1040	4380
4-Methyl-2-pentanone	250	104000	438000
Acetone	580	1070000	4510000
Benzene	140	120	524
Carbon disulfide	5.1	24300	102000
Ethyl acetate	48	2430	10200
Ethylbenzene	77	374	1640
m&p-Xylene	59	3480	14600
o-Xylene	21	3480	14600
Tetrahydrofuran	16	69500	292000
Toluene	500	174000	730000
Trichloroethene	12	69.5	292
Xylenes (unspecified)	260	3480	14600

Table G2. Screening of recent soil gas data


Parameter	2016-2017 Max Soil Gas ($\mu\text{g}/\text{m}^3$)	VISL Target Soil Gas Concentration 10-5; HQ 1	
		Residential ($\mu\text{g}/\text{m}^3$)	Commercial ($\mu\text{g}/\text{m}^3$)
Off-Site West of Road			
1,2,4-Trimethylbenzene	280	2090	8760
1,3,5-Trimethylbenzene	180	2090	8760
2-Butanone (MEK)	59	174000	730000
4-Methyl-2-pentanone	170	104000	438000
Acetone	47	1070000	4510000
Benzene	51	120	524
Carbon disulfide	26	24300	102000
Chloroform	15	40.7	178
Chloromethane	2.4	3130	13100
cis-1,2-Dichloroethene	4.2	-	-
Ethyl acetate	7.9	2430	10200
Ethylbenzene	91	374	1640
m&p-Xylene	17	3480	14600
o-Xylene	7.6	3480	14600
Styrene	6.6	34800	146000
Tetrachloroethene	13	1390	5840
Toluene	200	174000	730000
Xylenes (unspecified)	438	3480	14600

On-Site above Commercial value

Off-Site above Residential value

Table G3. Risk and Hazard due to COCs in Soil Gas

Parameter	2016-2017 95% UCL Soil Gas ($\mu\text{g}/\text{m}^3$)	Residential			Commercial		
		Site Sub-Slab and Exterior Soil Gas Concentration C_{sg} ($\mu\text{g}/\text{m}^3$)	VI Carcinogeni c Risk CR	VI Hazard HQ	Site Sub-Slab and Exterior Soil Gas Concentration C_{sg} ($\mu\text{g}/\text{m}^3$)	VI Carcinogenic Risk CR	VI Hazard HQ
On-Site							
1,1-Dichloroethene	44,446				44,446		1.52
Chloroform	1,020				1,020	5.7E-05	0.0715
Tetrachloroethene	4,095				4,095	2.6E-06	0.701
Trichloroethene	936,445				936,445	9.4E-03	3210
Total						9.5E-03	3212
Off-Site East of Road							
Benzene	72	72	6.0E-06	0.0686	72	1.4E-06	0.0163
Off-Site West of Road							
None							

 On-Site above Commercial value

**Pro-UCL Attachment for
Vapor Intrusion Evaluation**

On-Site Soil Gas

Location	Date Sampled	1,1-Dichloroethene			Chloroform			Tetrachloroethene			Trichloroethene		
		<4	4	0	<4.9	4.9	0	97	97	1	2600	2600	1
VI-004	12/13/2016	<4	4	0	<4.9	4.9	0	97	97	1	2600	2600	1
VI-005	12/13/2016	<4	4	0	<4.9	4.9	0	190	190	1	3400	3400	1
VI-009	12/13/2016	<4	4	0	<4.9	4.9	0	86	86	1	2500	2500	1
VI-014	12/13/2016	<10000	10000	0	2200	2200	1	<2000	2000	0	90000	90000	1
VI-018	12/13/2016	<20	20	0	<25	25	0	43	43	1	3000	3000	1
VI-021	12/13/2016	<20	20	0	<25	25	0	4100	4100	1	4500	4500	1
VI-022	12/13/2016	<4	4	0	<4.9	4.9	0	<6.9	6.9	0	35	35	1
VI-023	12/13/2016	<500	500	0	2200	2200	1	3200	3200	1	1700000	1700000	1
VI-024	12/13/2016	<100	100	0	<120	120	0	170	170	1	36000	36000	1
VI-025	12/14/2016	<4	4	0	14	14	1	<6.9	6.9	0	1100	1100	1
VI-026	12/14/2016	<4	4	0	<4.9	4.9	0	<6.9	6.9	0	280	280	1
VI-027	12/13/2016	<20	20	0	<25	25	0	37	37	1	8300	8300	1
VI-028	12/14/2016	<4	4	0	20	20	1	<6.9	6.9	0	1500	1500	1
VI-029	12/13/2016	<20	20	0	<25	25	0	51	51	1	12000	12000	1
VI-032	12/14/2016	<4	4	0	<4.9	4.9	0	<6.9	6.9	0	150	150	1
VI-033	12/14/2016	<4	4	0	<4.9	4.9	0	27	27	1	270	270	1
VI-043	12/13/2016	<20	20	0	96	96	1	850	850	1	17000	17000	1
VI-045	12/14/2016	290000	290000	1	<2000	2000	0	13000	13000	1	3800	3800	1
VI-046	12/14/2016	140	140	1	<4.9	4.9	0	370	370	1	150	150	1
VI-047	12/14/2016	120	120	1	<4.9	4.9	0	280	280	1	110	110	1

UCL Statistics for Data Sets with Non-Detects

User Selected Options

Date/Time of Computation ProUCL 5.14/24/2018 5:11:28 PM
 From File WorkSheet.xls
 Full Precision OFF
 Confidence Coefficient 95%
 Number of Bootstrap Operations 2000

11DCE

General Statistics

Total Number of Observations 20 Number of Distinct Observations 8
 Number of Detects 3 Number of Non-Detects 17
 Number of Distinct Detects 3 Number of Distinct Non-Detects 5

Minimum Detect	120 Minimum Non-Detect	4
Maximum Detect	290000 Maximum Non-Detect	10000
Variance Detects	##### Percent Non-Detects	85%
Mean Detects	96753 SD Detects	167357
Median Detects	140 CV Detects	1.73
Skewness Detects	1.732 Kurtosis Detects	N/A
Mean of Logged Detects	7.436 SD of Logged Detects	4.454

Warning: Data set has only 3 Detected Values.
This is not enough to compute meaningful or reliable statistics and estimates.

Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic	0.75 Shapiro Wilk GOF Test	
5% Shapiro Wilk Critical Value	0.767 Detected Data Not Normal at 5% Significance Level	
Lilliefors Test Statistic	0.385 Lilliefors GOF Test	
5% Lilliefors Critical Value	0.425 Detected Data appear Normal at 5% Significance Level	
Detected Data appear Approximate Normal at 5% Significance Level		

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

KM Mean	14518 KM Standard Error of Mean	17308
KM SD	63200 95% KM (BCA) UCL	N/A
95% KM (t) UCL	44446 95% KM (Percentile Bootstrap) UCL	N/A
95% KM (z) UCL	42987 95% KM Bootstrap t UCL	N/A
90% KM Chebyshev UCL	66442 95% KM Chebyshev UCL	89962
97.5% KM Chebyshev UCL	122606 99% KM Chebyshev UCL	186730

Gamma GOF Tests on Detected Observations Only

Not Enough Data to Perform GOF Test

Gamma Statistics on Detected Data Only

k hat (MLE)	0.184 k star (bias corrected MLE)	N/A
Theta hat (MLE)	525029 Theta star (bias corrected MLE)	N/A
nu hat (MLE)	1.106 nu star (bias corrected)	N/A
Mean (detects)	96753	

Gamma ROS Statistics using Imputed Non-Detects

GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs

GROS may not be used when kstar of detects is small such as <1.0, especially when the sample size is small (e.g., <15-20)

For such situations, GROS method may yield incorrect values of UCLs and BTVs

This is especially true when the sample size is small.

For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates

Minimum	0.01 Mean	14513
Maximum	290000 Median	0.01
SD	64843 CV	4.468
k hat (MLE)	0.0685 k star (bias corrected MLE)	0.0916
Theta hat (MLE)	211782 Theta star (bias corrected MLE)	158470
nu hat (MLE)	2.741 nu star (bias corrected)	3.663
Adjusted Level of Significance (β)	0.038	
Approximate Chi Square Value (3.66, α)	0.593 Adjusted Chi Square Value (3.66, β)	0.508
95% Gamma Approximate UCL (use when $n \geq 50$)	89598 95% Gamma Adjusted UCL (use when $n < 50$)	N/A

Estimates of Gamma Parameters using KM Estimates

Mean (KM)	14518 SD (KM)	63200
Variance (KM)	##### SE of Mean (KM)	17308
k hat (KM)	0.0528 k star (KM)	0.0782
nu hat (KM)	2.111 nu star (KM)	3.127
theta hat (KM)	275125 theta star (KM)	185683
80% gamma percentile (KM)	6603 90% gamma percentile (KM)	33920
95% gamma percentile (KM)	84322 99% gamma percentile (KM)	259920

Gamma Kaplan-Meier (KM) Statistics

Approximate Chi Square Value (3.13, α)	0.411 Adjusted Chi Square Value (3.13, β)	0.348
95% Gamma Approximate KM-UCL (use when $n \geq 50$)	110430 95% Gamma Adjusted KM-UCL (use when $n < 5$)	130622
95% Gamma Adjusted KM-UCL (use when $k \leq 1$ and $15 < n < 50$)		

Lognormal GOF Test on Detected Observations Only

Shapiro Wilk Test Statistic	0.765 Shapiro Wilk GOF Test	
5% Shapiro Wilk Critical Value	0.767 Detected Data Not Lognormal at 5% Significance Level	
Lilliefors Test Statistic	0.379 Lilliefors GOF Test	
5% Lilliefors Critical Value	0.425 Detected Data appear Lognormal at 5% Significance Level	
Detected Data appear Approximate Lognormal at 5% Significance Level		

Lognormal ROS Statistics Using Imputed Non-Detects

Mean in Original Scale	14513 Mean in Log Scale	-7.63
SD in Original Scale	64843 SD in Log Scale	8.592
95% t UCL (assumes normality of ROS data)	39584 95% Percentile Bootstrap UCL	43506
95% BCA Bootstrap UCL	58014 95% Bootstrap t UCL	3.5E+07

95% H-UCL (Log ROS)

#####

Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution

KM Mean (logged)	2.335	KM Geo Mean	10.33
KM SD (logged)	2.591	95% Critical H Value (KM-Log)	5.393
KM Standard Error of Mean (logged)	0.717	95% H-UCL (KM -Log)	7325
KM SD (logged)	2.591	95% Critical H Value (KM-Log)	5.393
KM Standard Error of Mean (logged)	0.717		

DL/2 Statistics

DL/2 Normal		DL/2 Log-Transformed	
Mean in Original Scale	14781	Mean in Log Scale	2.9
SD in Original Scale	64789	SD in Log Scale	3.133
95% t UCL (Assumes normality)	39832	95% H-Stat UCL	247068

DL/2 is not a recommended method, provided for comparisons and historical reasons

Nonparametric Distribution Free UCL Statistics

Detected Data appear Approximate Normal Distributed at 5% Significance Level

Suggested UCL to Use

95% KM (t) UCL 44446

When a data set follows an approximate (e.g., normal) distribution passing one of the GOF test

When applicable, it is suggested to use a UCL based upon a distribution (e.g., gamma) passing both GOF tests in ProUCL

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.

Recommendations are based upon data size, data distribution, and skewness.

These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).

However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Chloroform

General Statistics

Total Number of Observations	20	Number of Distinct Observations	8
Number of Detects	5	Number of Non-Detects	15
Number of Distinct Detects	4	Number of Distinct Non-Detects	4
Minimum Detect	14	Minimum Non-Detect	4.9
Maximum Detect	2200	Maximum Non-Detect	2000
Variance Detects	1396408	Percent Non-Detects	75%

Mean Detects	906 SD Detects	1182
Median Detects	96 CV Detects	1.304
Skewness Detects	0.605 Kurtosis Detects	-3.329
Mean of Logged Detects	5.118 SD of Logged Detects	2.462

Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic	0.701 Shapiro Wilk GOF Test
5% Shapiro Wilk Critical Value	0.762 Detected Data Not Normal at 5% Significance Level
Lilliefors Test Statistic	0.353 Lilliefors GOF Test
5% Lilliefors Critical Value	0.343 Detected Data Not Normal at 5% Significance Level
Detected Data Not Normal at 5% Significance Level	

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

KM Mean	231.4 KM Standard Error of Mean	164.1
KM SD	656.5 95% KM (BCA) UCL	N/A
95% KM (t) UCL	515.2 95% KM (Percentile Bootstrap) UCL	N/A
95% KM (z) UCL	501.4 95% KM Bootstrap t UCL	N/A
90% KM Chebyshev UCL	723.8 95% KM Chebyshev UCL	946.9
97.5% KM Chebyshev UCL	1256 99% KM Chebyshev UCL	1865

Gamma GOF Tests on Detected Observations Only

A-D Test Statistic	0.604 Anderson-Darling GOF Test
5% A-D Critical Value	0.726 Detected data appear Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.279 Kolmogorov-Smirnov GOF
5% K-S Critical Value	0.376 Detected data appear Gamma Distributed at 5% Significance Level
Detected data appear Gamma Distributed at 5% Significance Level	

Gamma Statistics on Detected Data Only

k hat (MLE)	0.391 k star (bias corrected MLE)	0.29
Theta hat (MLE)	2319 Theta star (bias corrected MLE)	3128
nu hat (MLE)	3.907 nu star (bias corrected)	2.896
Mean (detects)	906	

Gamma ROS Statistics using Imputed Non-Detects

GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs

GROS may not be used when kstar of detects is small such as <1.0, especially when the sample size is small (e.g., <15-20)

For such situations, GROS method may yield incorrect values of UCLs and BTVs

This is especially true when the sample size is small.

For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates

Minimum	0.01 Mean	226.5
Maximum	2200 Median	0.01
SD	675.3 CV	2.981
k hat (MLE)	0.106 k star (bias corrected MLE)	0.124
Theta hat (MLE)	2135 Theta star (bias corrected MLE)	1834
nu hat (MLE)	4.244 nu star (bias corrected)	4.941
Adjusted Level of Significance (β)	0.038	
Approximate Chi Square Value (4.94, α)	1.125 Adjusted Chi Square Value (4.94, β)	0.99
95% Gamma Approximate UCL (use when $n \geq 50$)	994.9 95% Gamma Adjusted UCL (use when $n < 50$)	1130

Estimates of Gamma Parameters using KM Estimates

Mean (KM)	231.4 SD (KM)	656.5
Variance (KM)	431039 SE of Mean (KM)	164.1
k hat (KM)	0.124 k star (KM)	0.139
nu hat (KM)	4.969 nu star (KM)	5.557
theta hat (KM)	1863 theta star (KM)	1666
80% gamma percentile (KM)	235.6 90% gamma percentile (KM)	677.8
95% gamma percentile (KM)	1292 99% gamma percentile (KM)	3102

Gamma Kaplan-Meier (KM) Statistics

Approximate Chi Square Value (5.56, α)	1.418 Adjusted Chi Square Value (5.56, β)	1.261
95% Gamma Approximate KM-UCL (use when $n \geq 50$)	907 95% Gamma Adjusted KM-UCL (use when $n < 50$)	1020

Lognormal GOF Test on Detected Observations Only

Shapiro Wilk Test Statistic	0.833 Shapiro Wilk GOF Test	
5% Shapiro Wilk Critical Value	0.762 Detected Data appear Lognormal at 5% Significance Level	
Lilliefors Test Statistic	0.252 Lilliefors GOF Test	
5% Lilliefors Critical Value	0.343 Detected Data appear Lognormal at 5% Significance Level	
Detected Data appear Lognormal at 5% Significance Level		

Lognormal ROS Statistics Using Imputed Non-Detects

Mean in Original Scale	227 Mean in Log Scale	-0.536
SD in Original Scale	675.1 SD in Log Scale	4.207
95% t UCL (assumes normality of ROS data)	488 95% Percentile Bootstrap UCL	455.5
95% BCA Bootstrap UCL	565.3 95% Bootstrap t UCL	7131
95% H-UCL (Log ROS)	1.1E+07	

Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution

KM Mean (logged)	2.556 KM Geo Mean	12.88
------------------	-------------------	-------

KM SD (logged)	1.879	95% Critical H Value (KM-Log)	4.087
KM Standard Error of Mean (logged)	0.48	95% H-UCL (KM -Log)	437.9
KM SD (logged)	1.879	95% Critical H Value (KM-Log)	4.087
KM Standard Error of Mean (logged)	0.48		

DL/2 Statistics

DL/2 Normal		DL/2 Log-Transformed	
Mean in Original Scale	283.1	Mean in Log Scale	2.738
SD in Original Scale	691.7	SD in Log Scale	2.323
95% t UCL (Assumes normality)	550.6	95% H-Stat UCL	3116

DL/2 is not a recommended method, provided for comparisons and historical reasons

Nonparametric Distribution Free UCL Statistics

Detected Data appear Gamma Distributed at 5% Significance Level

Suggested UCL to Use

Gamma Adjusted KM-UCL (use when $k \leq 1$ and $15 < n < 50$ but $k \leq 1$) 1020

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.

Recommendations are based upon data size, data distribution, and skewness.

These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).

However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

PCE

General Statistics

Total Number of Observations	20	Number of Distinct Observations	16
Number of Detects	14	Number of Non-Detects	6
Number of Distinct Detects	14	Number of Distinct Non-Detects	2
Minimum Detect	27	Minimum Non-Detect	6.9
Maximum Detect	13000	Maximum Non-Detect	2000
Variance Detects	1.2E+07	Percent Non-Detects	30%
Mean Detects	1607	SD Detects	3518
Median Detects	180	CV Detects	2.189
Skewness Detects	3.02	Kurtosis Detects	9.69
Mean of Logged Detects	5.583	SD of Logged Detects	1.922

Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic 0.518 Shapiro Wilk GOF Test

5% Shapiro Wilk Critical Value	0.874	Detected Data Not Normal at 5% Significance Level
Lilliefors Test Statistic	0.371	Lilliefors GOF Test
5% Lilliefors Critical Value	0.226	Detected Data Not Normal at 5% Significance Level
Detected Data Not Normal at 5% Significance Level		

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

KM Mean	1134	KM Standard Error of Mean	679.5
KM SD	2928	95% KM (BCA) UCL	2455
95% KM (t) UCL	2309	95% KM (Percentile Bootstrap) UCL	2401
95% KM (z) UCL	2251	95% KM Bootstrap t UCL	4944
90% KM Chebyshev UCL	3172	95% KM Chebyshev UCL	4095
97.5% KM Chebyshev UCL	5377	99% KM Chebyshev UCL	7894

Gamma GOF Tests on Detected Observations Only

A-D Test Statistic	1.175	Anderson-Darling GOF Test
5% A-D Critical Value	0.818	Detected Data Not Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.273	Kolmogorov-Smirnov GOF
5% K-S Critical Value	0.246	Detected Data Not Gamma Distributed at 5% Significance Level
Detected Data Not Gamma Distributed at 5% Significance Level		

Gamma Statistics on Detected Data Only

k hat (MLE)	0.37	k star (bias corrected MLE)	0.339
Theta hat (MLE)	4339	Theta star (bias corrected MLE)	4746
nu hat (MLE)	10.37	nu star (bias corrected)	9.482
Mean (detects)	1607		

Gamma ROS Statistics using Imputed Non-Detects

GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs

GROS may not be used when kstar of detects is small such as <1.0, especially when the sample size is small (e.g., <15-20)

For such situations, GROS method may yield incorrect values of UCLs and BTVs

This is especially true when the sample size is small.

For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates

Minimum	0.01	Mean	1125
Maximum	13000	Median	68.5
SD	3007	CV	2.672
k hat (MLE)	0.168	k star (bias corrected MLE)	0.176
Theta hat (MLE)	6696	Theta star (bias corrected MLE)	6387
nu hat (MLE)	6.72	nu star (bias corrected)	7.046
Adjusted Level of Significance (β)	0.038		

Approximate Chi Square Value (7.05, α)	2.196 Adjusted Chi Square Value (7.05, β)	1.988
95% Gamma Approximate UCL (use when $n \geq 50$)	3610 95% Gamma Adjusted UCL (use when $n < 50$)	3987

Estimates of Gamma Parameters using KM Estimates

Mean (KM)	1134 SD (KM)	2928
Variance (KM)	8571613 SE of Mean (KM)	679.5
k hat (KM)	0.15 k star (KM)	0.161
nu hat (KM)	5.998 nu star (KM)	6.432
theta hat (KM)	7560 theta star (KM)	7051
80% gamma percentile (KM)	1303 90% gamma percentile (KM)	3390
95% gamma percentile (KM)	6152 99% gamma percentile (KM)	14058

Gamma Kaplan-Meier (KM) Statistics

Approximate Chi Square Value (6.43, α)	1.864 Adjusted Chi Square Value (6.43, β)	1.677
95% Gamma Approximate KM-UCL (use when $n \geq 50$)	3911 95% Gamma Adjusted KM-UCL (use when $n < 5$)	4348

Lognormal GOF Test on Detected Observations Only

Shapiro Wilk Test Statistic	0.916 Shapiro Wilk GOF Test
5% Shapiro Wilk Critical Value	0.874 Detected Data appear Lognormal at 5% Significance Level
Lilliefors Test Statistic	0.146 Lilliefors GOF Test
5% Lilliefors Critical Value	0.226 Detected Data appear Lognormal at 5% Significance Level
Detected Data appear Lognormal at 5% Significance Level	

Lognormal ROS Statistics Using Imputed Non-Detects

Mean in Original Scale	1128 Mean in Log Scale	4.373
SD in Original Scale	3005 SD in Log Scale	2.584
95% t UCL (assumes normality of ROS data)	2290 95% Percentile Bootstrap UCL	2346
95% BCA Bootstrap UCL	3089 95% Bootstrap t UCL	4713
95% H-UCL (Log ROS)	54215	

Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution

KM Mean (logged)	4.585 KM Geo Mean	97.99
KM SD (logged)	2.238 95% Critical H Value (KM-Log)	4.738
KM Standard Error of Mean (logged)	0.526 95% H-UCL (KM -Log)	13643
KM SD (logged)	2.238 95% Critical H Value (KM-Log)	4.738
KM Standard Error of Mean (logged)	0.526	

DL/2 Statistics

DL/2 Normal

DL/2 Log-Transformed

Mean in Original Scale	1176	Mean in Log Scale	4.563
SD in Original Scale	2995	SD in Log Scale	2.548
95% t UCL (Assumes normality)	2334	95% H-Stat UCL	55045

DL/2 is not a recommended method, provided for comparisons and historical reasons

Nonparametric Distribution Free UCL Statistics

Detected Data appear Lognormal Distributed at 5% Significance Level

Suggested UCL to Use

95% KM (Chebyshev) UCL 4095

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.

Recommendations are based upon data size, data distribution, and skewness.

These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).

However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

TCE

General Statistics

Total Number of Observations	20	Number of Distinct Observations	19
		Number of Missing Observations	0
Minimum	35	Mean	94335
Maximum	1700000	Median	2800
SD	378500	Std. Error of Mean	84635
Coefficient of Variation	4.012	Skewness	4.45

Normal GOF Test

Shapiro Wilk Test Statistic	0.265	Shapiro Wilk GOF Test	
5% Shapiro Wilk Critical Value	0.905	Data Not Normal at 5% Significance Level	
Lilliefors Test Statistic	0.461	Lilliefors GOF Test	
5% Lilliefors Critical Value	0.192	Data Not Normal at 5% Significance Level	

Assuming Normal Distribution

95% Normal UCL		95% UCLs (Adjusted for Skewness)	
95% Student's-t UCL	240680	95% Adjusted-CLT UCL (Chen-1995)	323543
		95% Modified-t UCL (Johnson-1978)	254718

Gamma GOF Test			
A-D Test Statistic	2.544	Anderson-Darling Gamma GOF Test	
5% A-D Critical Value	0.891	Data Not Gamma Distributed at 5% Significance Level	
K-S Test Statistic	0.296	Kolmogorov-Smirnov Gamma GOF Test	
5% K-S Critical Value	0.215	Data Not Gamma Distributed at 5% Significance Level	
Data Not Gamma Distributed at 5% Significance Level			
Gamma Statistics			
k hat (MLE)	0.203	k star (bias corrected MLE)	0.206
Theta hat (MLE)	464964	Theta star (bias corrected MLE)	458411
nu hat (MLE)	8.115	nu star (bias corrected)	8.231
MLE Mean (bias corrected)	94335	MLE Sd (bias corrected)	207952
		Approximate Chi Square Value (0.05)	2.87
Adjusted Level of Significance	0.038	Adjusted Chi Square Value	2.625
Assuming Gamma Distribution			
95% Approximate Gamma UCL (use when n>=50))	270583	95% Adjusted Gamma UCL (use when n<50)	295825
Lognormal GOF Test			
Shapiro Wilk Test Statistic	0.961	Shapiro Wilk Lognormal GOF Test	
5% Shapiro Wilk Critical Value	0.905	Data appear Lognormal at 5% Significance Level	
Lilliefors Test Statistic	0.111	Lilliefors Lognormal GOF Test	
5% Lilliefors Critical Value	0.192	Data appear Lognormal at 5% Significance Level	
Data appear Lognormal at 5% Significance Level			
Lognormal Statistics			
Minimum of Logged Data	3.555	Mean of logged Data	7.835
Maximum of Logged Data	14.35	SD of logged Data	2.567
Assuming Lognormal Distribution			
95% H-UCL	1590861	90% Chebyshev (MVUE) UCL	126548
95% Chebyshev (MVUE) UCL	165409	97.5% Chebyshev (MVUE) UCL	219347
99% Chebyshev (MVUE) UCL	325296		
Nonparametric Distribution Free UCL Statistics			
Data appear to follow a Discernible Distribution at 5% Significance Level			
Nonparametric Distribution Free UCLs			
95% CLT UCL	233547	95% Jackknife UCL	240680

95% Standard Bootstrap UCL	230360	95% Bootstrap-t UCL	4291305
95% Hall's Bootstrap UCL	2914911	95% Percentile Bootstrap UCL	259391
95% BCA Bootstrap UCL	359107		
90% Chebyshev(Mean, Sd) UCL	348241	95% Chebyshev(Mean, Sd) UCL	463251
97.5% Chebyshev(Mean, Sd) UCL	622882	99% Chebyshev(Mean, Sd) UCL	936445
Suggested UCL to Use			
99% Chebyshev (Mean, Sd) UCL	936445		

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. Recommendations are based upon data size, data distribution, and skewness. These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006). However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Off-Site West of Road Soil Gas

Benzene			
GP-SG-1	<3.2	3.2	0
GP-SG-2	140	140	1
GP-SG-6	<3.2	3.2	0
OFFSG-1	<3.2	3.2	0
OFFSG-2	<3.2	3.2	0
OFFSG-3	5.6	5.6	1

with 1/2 DL

1.6
140
1.6
1.6
1.6
5.6

Avg 25.33333

UCL Statistics for Data Sets with Non-Detects

User Selected Options

Date/Time of Computation ProUCL 5.14/24/2018 5:19:55 PM
 From File WorkSheet.xls
 Full Precision OFF
 Confidence Coefficient 95%
 Number of Bootstrap Operations 2000

Benzene

General Statistics

Total Number of Observations	6	Number of Distinct Observations	3
Number of Detects	2	Number of Non-Detects	4
Number of Distinct Detects	2	Number of Distinct Non-Detects	1
Minimum Detect	5.6	Minimum Non-Detect	3.2
Maximum Detect	140	Maximum Non-Detect	3.2
Variance Detects	9032	Percent Non-Detects	66.67%
Mean Detects	72.8	SD Detects	95.04
Median Detects	72.8	CV Detects	1.305
Skewness Detects	N/A	Kurtosis Detects	N/A
Mean of Logged Detects	3.332	SD of Logged Detects	2.276

Warning: Data set has only 2 Detected Values.

This is not enough to compute meaningful or reliable statistics and estimates.

Note: Sample size is small (e.g., <10), if data are collected using ISM approach, you should use guidance provided in ITRC Tech Reg Guide on ISM (ITRC, 2012) to compute statistics of interest. For example, you may want to use Chebyshev UCL to estimate EPC (ITRC, 2012).

Chebyshev UCL can be computed using the Nonparametric and All UCL Options of ProUCL 5.1

Normal GOF Test on Detects Only

Not Enough Data to Perform GOF Test

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

KM Mean	26.4	KM Standard Error of Mean	29.34
KM SD	50.81	95% KM (BCA) UCL	N/A
95% KM (t) UCL	85.51	95% KM (Percentile Bootstrap) UCL	N/A
95% KM (z) UCL	74.65	95% KM Bootstrap t UCL	N/A
90% KM Chebyshev UCL	114.4	95% KM Chebyshev UCL	154.3
97.5% KM Chebyshev UCL	209.6	99% KM Chebyshev UCL	318.3

Gamma GOF Tests on Detected Observations Only

Not Enough Data to Perform GOF Test

Gamma Statistics on Detected Data Only

k hat (MLE)	0.641	k star (bias corrected MLE)	N/A
Theta hat (MLE)	113.7	Theta star (bias corrected MLE)	N/A
nu hat (MLE)	2.562	nu star (bias corrected)	N/A
Mean (detects)	72.8		

Estimates of Gamma Parameters using KM Estimates

Mean (KM)	26.4	SD (KM)	50.81
Variance (KM)	2582	SE of Mean (KM)	29.34
k hat (KM)	0.27	k star (KM)	0.246
nu hat (KM)	3.239	nu star (KM)	2.953
theta hat (KM)	97.79	theta star (KM)	107.3
80% gamma percentile (KM)	38.12	90% gamma percentile (KM)	79.33
95% gamma percentile (KM)	128.4	99% gamma percentile (KM)	259.3

Gamma Kaplan-Meier (KM) Statistics

		Adjusted Level of Significance (β)	0.0122
Approximate Chi Square Value (2.95, α)	0.359	Adjusted Chi Square Value (2.95, β)	0.161
95% Gamma Approximate KM-UCL (use when $n \geq 50$)	217.4	95% Gamma Adjusted KM-UCL (use when $n < 50$)	484.3

Lognormal GOF Test on Detected Observations Only

Not Enough Data to Perform GOF Test

Lognormal ROS Statistics Using Imputed Non-Detects

Mean in Original Scale	24.28	Mean in Log Scale	-3.58
SD in Original Scale	56.74	SD in Log Scale	6.128
95% t UCL (assumes normality of ROS data)	70.95	95% Percentile Bootstrap UCL	70
95% BCA Bootstrap UCL	70.95	95% Bootstrap t UCL	61081
95% H-UCL (Log ROS)	1.27E+34		

Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution

KM Mean (logged)	1.886	KM Geo Mean	6.594
KM SD (logged)	1.382	95% Critical H Value (KM-Log)	5.455
KM Standard Error of Mean (logged)	0.798	95% H-UCL (KM -Log)	498.4
KM SD (logged)	1.382	95% Critical H Value (KM-Log)	5.455
KM Standard Error of Mean (logged)	0.798		

DL/2 Statistics

DL/2 Normal		DL/2 Log-Transformed	
Mean in Original Scale	25.33	Mean in Log Scale	1.424
SD in Original Scale	56.2	SD in Log Scale	1.795
95% t UCL (Assumes normality)	71.56	95% H-Stat UCL	5494

DL/2 is not a recommended method, provided for comparisons and historical reasons

Nonparametric Distribution Free UCL Statistics

Data do not follow a Discernible Distribution at 5% Significance Level

Suggested UCL to Use

KM Bootstrap t UCL N/A

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.

Recommendations are based upon data size, data distribution, and skewness.

These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).

However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

APPENDIX H
Boring Logs

PROJECT: Rheem Manufacturing Company	Log of Boring No. IW-1 (A-C)		
SITE LOCATION: Milledgeville, GA	TOP OF CASING ELEVATION (ft.): N/A		
DRILLING CONTRACTOR: Cascade Drilling	DATE STARTED: 10/3/2016	DATE FINISHED: 10/4/2016	
DRILLING METHOD: Rotasonic	TOTAL DEPTH (ft.): 88	SCREEN INTERVAL (ft.): See Below	
DRILLING EQUIPMENT: Sonic 10-00288	DEPTH TO WATER AT TIME OF BORING (ft.): NM	CASING (ft.): See Below	
SAMPLING METHOD: Sample Sleeves	BOREHOLE DIAMETER (In.): See Below	WELL DIAMETER (In.): 1	

LOGGED BY: **Alex Testoff**

DEPTH (feet)	PID Reading	DESCRIPTION		WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
		Ground Surface Elevation (ft): N/A		
0			Topsoil	Flush mount well vault
5	2		Red, orange, tan micaceous clay	IW-1 (A-C) constructed with 3 separate 1-inch PVC wells within one borehole.
10	6			
15	8.9			
20	10.3		Tan, orange micaceous clay w/ white, green, black sand lenses	6" borehole from 0-68 ft-bgs
25	9.5			
30	15.7			
35	29		Tan, brown micaceous sand	IW-1C screened from 38-48 ft-bgs
40	87.8		Light brown, tan clay	
45	140.2		Green, gray, white, tan clayey sand	
50	159.7		Tan, brown micaceous clay	
55	859.6		Gray, tan, white sandy weathered rock	
60	872.6		Brown, tan, gray clayey weathered rock	IW-1B screened from 53-68 ft-bgs
65	1009			
70	1057		White, gray gravelly weathered rock	4" borehole from 68-88 ft-bgs
75	5		Gray, white gneiss	
80				
85	2.2			
90				IW-1A screened from 73-88 ft-bgs
95				
100	2.7			
105				
110				
115				
120				



PROJECT: Rheem Manufacturing Company	Log of Boring No. IW-2 (A-D)		
SITE LOCATION: Milledgeville, GA	TOP OF CASING ELEVATION (ft.): N/A		
DRILLING CONTRACTOR: Cascade Drilling	DATE STARTED: 10/4/2016	DATE FINISHED: 10/6/2016	
DRILLING METHOD: Rotasonic	TOTAL DEPTH (ft.): 106	SCREEN INTERVAL (ft.): See Below	
DRILLING EQUIPMENT: Sonic 10-00289	DEPTH TO WATER AT TIME OF BORING (ft.): NM	CASING (ft.): See Below	
SAMPLING METHOD: Sample Sleeves	BOREHOLE DIAMETER (In.): See Below	WELL DIAMETER (In.): 1	

LOGGED BY: **Alex Testoff**

DEPTH (feet)	PID Reading	DESCRIPTION		WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
		Ground Surface Elevation (ft): N/A		
0		Asphalt		Flush mount well vault
5	7.7	Tan, red clay		IW-2 (A-D) constructed with 4 separate 1-inch PVC wells within one borehole. 8" borehole from 0-85.5 ft bgs.
	2	Tan, orange clay w/ white sand lenses		
10	9.6	Orange, tan clay		
15	8.7	Orange clay w/ white, black sand lenses		
20	7.9	White, black sand w/ tan clay		
25	10.1	Orange clay w/ white sand lenses		
30	8.8	Light brown, white, black clayey sand		
35	300.2	Light brown, white black clayey weathered rock		
40	412.1	Tan, white black clayey weathered rock		
45	600.2	Orange, tan clayey weathered rock		
50	890.5	Gray, white clayey weathered rock		IW-2C screened from 51-66 ft-bgs
55	699.1	Tan, white clayey weathered rock		
60	870.3	Tan, gray clayey weathered rock		IW-2B screened from 71-86 ft-bgs
65	681.4	White, gray gneiss		
70	665.5	Gray, pink gneiss		4" borehole from 85.5-106 ft bgs.
75	701.6	Gray, white gneiss		
80	3			IW-2A screened from 91-106 ft-bgs
85	0.7			
90	0.1			
95				
100				
105				
110				
115				
120				



PROJECT: Rheem Manufacturing Company	Log of Boring No. IW-3 (A-E)		
SITE LOCATION: Milledgeville, GA	TOP OF CASING ELEVATION (ft.): N/A		
DRILLING CONTRACTOR: Cascade Drilling	DATE STARTED: 10/6/2016	DATE FINISHED: 10/8/2016	
DRILLING METHOD: Rotasonic	TOTAL DEPTH (ft.): 116	SCREEN INTERVAL (ft.): See Below	
DRILLING EQUIPMENT: Sonic 10-00290	DEPTH TO WATER AT TIME OF BORING (ft.): NM	CASING (ft.): See Below	
SAMPLING METHOD: Sample Sleeves	BOREHOLE DIAMETER (In.): See Below	WELL DIAMETER (In.): 1	

LOGGED BY: **Alex Testoff**

DEPTH (feet)	PID Reading	DESCRIPTION		WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
		Ground Surface Elevation (ft): N/A		
0		Asphalt		Flush mount well vault
5	9.6	Red, tan clay		
10	36.1	Red, tan micaceous clay		IW-3 (A-E) constructed with 5 separate 1-inch PVC wells within one borehole.
15	42.2	Orange, tan clay w/ black mottling		
20	45.5	Tan micaceous clay w/ sand		IW-3E screened from 29-39 ft-bgs
25	50	Tan, orange, white clayey sand		8" borehole from 0-56 ft bgs.
30	39.6	Tan, white clayey weathered rock w/ mica flakes		IW-3D screened from 44-54 ft-bgs
35	47.9	Tan, white sandy weathered rock		
40	>15,000	Tan, white clayey weathered rock		6" borehole from 56-116 ft bgs.
45	369.3	Tan, gray, white micaceous weathered rock		IW-3C screened from 59-74 ft-bgs
50	570	Gray, tan clayey weathered rock		
55	445.9	Gray, white gneiss (<10% recovery)		IW-3B screened from 79-94 ft-bgs
60	3224	Gray, white micaceous gneiss		
65	>15,000	White, gray gneiss		IW-3A screened from 100-115 ft-bgs
70	860.4			
75				
80	9.1			
85				
90	0.9			
95				
100	1.1			
105	0.8			
110				
115				
120				



PROJECT: Rheem Manufacturing Company		Log of Boring No. IW-4 (A-E)	
SITE LOCATION: Milledgeville, GA		TOP OF CASING ELEVATION (ft): N/A	
DRILLING CONTRACTOR: Cascade Drilling		DATE STARTED: 10/8/2016	DATE FINISHED: 10/9/2016
DRILLING METHOD: Rotasonic		TOTAL DEPTH (ft.): 116	SCREEN INTERVAL (ft.): See Below
DRILLING EQUIPMENT: Sonic 10-00291		DEPTH TO WATER AT TIME OF BORING (ft.): NM	CASING (ft.): See Below
SAMPLING METHOD: Sample Sleeves		BOREHOLE DIAMETER (In.): See Below	WELL DIAMETER (In.): 1

LOGGED BY: **Alex Testoff**

DEPTH (feet)	PID Reading	DESCRIPTION		WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
		Ground Surface Elevation (ft): N/A		
0		Topsoil and gravel		Flush mount well vault
5	9.8	Orange, tan clay		
10	520.2	Orange, tan micaceous clay		IW-4 (A-E) constructed with 5 separate 1-inch PVC wells within one borehole.
15	831.1	Orange micaceous clay w/ tan sand		
20	>15,000	Tan, brown clay with gravel, weathered rock lense at 20-24 ft-bgs		IW-4E screened from 20-35 ft-bgs
25	>15,000	Tan sandy with clay and gravel		
30	1032 2023	Brown to tan clayey sand with gravel		8" borehole from 0-56 ft bgs.
35	>15,000			
40	>15,000			
45	>15,000			
50	>15,000			
55	8950			IW-4D screened from 40-55 ft-bgs
60				
65	8062			6" borehole from 56-116 ft bgs.
70	>15,000	Tan, gray clayey weathered rock		
75		Gray, brown clayey weathered rock		IW-4C screened from 60-75 ft-bgs
80	10.2			
85	2.1	Gray, white gneiss		IW-4B screened from 80-95 ft-bgs
90				
95	0.1			
100	0			
105				IW-4A screened from 100-115 ft-bgs
110	6.7			
115				
120				



PROJECT: Rheem Manufacturing Company	Log of Boring No. IW-5 (A-E)		
SITE LOCATION: Milledgeville, GA	TOP OF CASING ELEVATION (ft.): N/A		
DRILLING CONTRACTOR: Cascade Drilling	DATE STARTED: 10/10/2016	DATE FINISHED: 10/11/2016	
DRILLING METHOD: Rotasonic	TOTAL DEPTH (ft.): 118	SCREEN INTERVAL (ft.): See Below	
DRILLING EQUIPMENT: Sonic 10-00292	DEPTH TO WATER AT TIME OF BORING (ft.): NM	CASING (ft.): See Below	
SAMPLING METHOD: Sample Sleeves	BOREHOLE DIAMETER (In.): See Below	WELL DIAMETER (In.): 1	

LOGGED BY: **Justin Vickery**

DEPTH (feet)	PID Reading	DESCRIPTION		WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
		Ground Surface Elevation (ft): N/A		
0	30	Concrete		Flush mount well vault
5	100	Red to tan to white clay		IW-5 (A-E) constructed with 5 separate 1-inch PVC wells within one borehole.
10	53	Reddish brown clay w/ sandy streaks and gravel		
15	63	Gray to tan sand w/ gravel		IW-5E screened from 23-38 ft-bgs
20	900	Reddish brown sandy clay		
25	1200	Red to brown sand w/ clay		8" borehole from 0-58 ft bgs.
30	3000	Gray sandy clay with coarse sand lenses		
35	>15,000	Tan to gray fine sand w/ silt		IW-5D screened from 43-58 ft-bgs
40	>15,000	Gray sandy clay w/ gravel		
45	>15,000	Tan/white/gray/brown sandy clay		6" borehole from 58-118 ft bgs.
50	>15,000	Tan silt and fine sand		
55	4000	Tan and gray clay w/ fine sand and gravel		IW-5C screened from 63-78 ft-bgs
60	1500	Brown to gray fine to coarse sand w/ gravel and clay		
65	375	Dark gray gneiss, void at 103-104 ft-bgs		IW-5B screened from 83-98 ft-bgs
70	150			
75	175			IW-5A screened from 103-118 ft-bgs
80	250			
85	120			
90	170			
95	240			
100	95			
105	20			
110	9			
115	30			
120	25			
	42			



PROJECT: Rheem Manufacturing Company		Log of Boring No. IW-6	
SITE LOCATION: Milledgeville, GA		TOP OF CASING ELEVATION (ft): N/A	
DRILLING CONTRACTOR: GSE Inc.		DATE STARTED: 10/10/2017	DATE FINISHED: 10/10/2017
DRILLING METHOD: Rotasonic		TOTAL DEPTH (ft.): 70	SCREEN INTERVAL (ft.): See Below
DRILLING EQUIPMENT: TSI 150CC		DEPTH TO WATER AT TIME OF BORING (ft.): NM	CASING (ft.): See Below
SAMPLING METHOD: Sample Sleeves		BOREHOLE DIAMETER (In.): 6.25	WELL DIAMETER (In.): 2

LOGGED BY: **Alex Testoff**

DEPTH (feet)	PID Reading	DESCRIPTION		WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
		Ground Surface Elevation (ft):	N/A	
0			Asphalt	Flush mount well vault
5	15.7		Topsoil	
10	17.9		Red, tan clay w/ dark layers ~10 to 11 ft-bgs	IW-6 constructed with a single 2-inch PVC well with two distinct screened intervals within one borehole
15	20		Tan, gray sandy clay w/ black mottling	
20	11.7		White, pink clayey sand	
25	12.2		Tan, orange sandy clay w/ dark gray and white clay ~24 ft-bgs	
30	7.9		Tan, orange micaceous sandy clay	
35			Brown, green micaceous clay	
40	52.8		Brown, gray, white micaceous sandy clay	
45	17		Tan, orange micaceous sandy clay w/ black mottling	
50	40.1		Orange, tan, green sandy clay	
55	16.9		Brown, gray, white micaceous clay	
60	52.2		Gray, tan, white clayey PWR	IW-6 screened from 30-45 ft-bgs
65	62.8		Gray, white clayey PWR	
70	61		Dark brown sand	
75	2.2		Tan, orange clayey PWR	
80			Tan, orange sandy PWR	
85			Tan, gray clayey PWR	IW-6 screened from 55-70 ft-bgs
90			Tan gray PWR w/ gravel	
95			Gray, white gneiss	



PROJECT: Rheem Manufacturing Company	Log of Boring No. IW-7	
SITE LOCATION: Milledgeville, GA	TOP OF CASING ELEVATION (ft): N/A	
DRILLING CONTRACTOR: GSE Inc.	DATE STARTED: 10/11/2017	DATE FINISHED: 10/12/2017
DRILLING METHOD: Rotasonic	TOTAL DEPTH (ft.): 80	SCREEN INTERVAL (ft.): See Below
DRILLING EQUIPMENT: TSI 150CC	DEPTH TO WATER AT TIME OF BORING (ft.): NM	CASING (ft.): See Below
SAMPLING METHOD: Sample Sleeves	BOREHOLE DIAMETER (In.): 6.25	WELL DIAMETER (In.): 2

LOGGED BY: **Justin Vickery**

DEPTH (feet)	PID Reading	DESCRIPTION		WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
		Ground Surface Elevation (ft):	N/A	
0	18		Asphalt	Flush mount well vault
5	42		Tan, orange clay w/ sand	
10	23		Red, tan clay (low plasticity)	
12	25		Same (high plasticity) w/ chunks of asphalt	
14	21		Tan, white clay w/ sand (high plasticity)	
16	16		Tan clay w/ sand	
18	14		Brown sandy clay (high plasticity)	
20	20		Tan, white sandy clay (high plasticity)	
25	17		Brown sandy clay (high plasticity)	
30	14		Brown sandy clay (high plasticity)	
35	18		Brown, tan, green sandy clay/clayey sand	
40	16		Brown clay w/ sand (high plasticity)	
45	16		Brown, orange clayey coarse sand	
50	20		Gray fine to medium sand w/ clay	
52	21		Tan sandy clay (high plasticity)	
55	14		Fine to medium sand w/ clay	
60	28		Gray clayey sand	
62	53		Brown sandy clay (high plasticity)	
65	110		Gray and brown silty sand	
68	260		Fine to medium gray, brown sand w/ layers of coarse sand and gravel	
70	110		Gray, brown sandy clay w/ chunks of competent rock	
72	480		Gray pulverized rock	
75	12		Gneiss	
78	231		Gray sand and gravel fines	
80	203		Gray clayey sand w/ chunks of competent rock	
82	74		Brown, gray coarse (unconsolidated) sand w/ clay	
85			Gray gneiss pieces w/ gray sand	
90				
95				
100				
105				
110				
115				
120				
125				
130				
135				

IW-7 screened from 50-80 ft-bgs



PROJECT: Rheem Manufacturing Company		Log of Boring No. IW-8	
SITE LOCATION: Milledgeville, GA		TOP OF CASING ELEVATION (ft.): N/A	
DRILLING CONTRACTOR: GSE Inc.		DATE STARTED: 10/10/2017	DATE FINISHED: 10/11/2017
DRILLING METHOD: Rotasonic		TOTAL DEPTH (ft.): 104	SCREEN INTERVAL (ft.): See Below
DRILLING EQUIPMENT: TSI 150CC		DEPTH TO WATER AT TIME OF BORING (ft.): NM	CASING (ft.): See Below
SAMPLING METHOD: Sample Sleeves		BOREHOLE DIAMETER (In.): 6.25	WELL DIAMETER (In.): 2

LOGGED BY: **Justin Vickery**

DEPTH (feet)	PID Reading	DESCRIPTION		WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
		Ground Surface Elevation (ft):	N/A	
0	0		Asphalt	Flush mount well vault
5	0		Red clay w/ sand	
10	0		Gray coarse sand	IW-8 constructed with a single 2-inch PVC well with two distinct screened intervals within one borehole
15	0		Red, brown clay w/ sand	
20	0		Brown medium sand	
25	0		Orange, tan clay (low plasticity)	
30	3.3		Orange, white clayey sand/sandy clay	
35	3.4		Tan, white coarse sand w/ clay	
40	3.6		Brown clay	
45	3		Tan, white clayey fine sand	
50	6.4		Brown clay w/ sand (high plasticity)	
55	13.2		Brown clay w/ white coarse sand (grading to more sand)	
60	4.2		White coarse sand w/ tan clay	IW-8 screened from 29-74 ft-bgs
65	4.2		Brown clay w/ white coarse sand	
70	4.4		Tan, pink, white coarse sand w/ clay	
75	4.4		Tan, white coarse sand w/ clay	
80	7.2		Tan, white clayey sand/sandy clay	
85	9.1		Tan, white coarse sand w/ clay	
90	19		Orange, brown sandy clay	
95	28		Brown clay (high plasticity)	
100	22		Tan, white sandy clay, clayey sand from 49.5 to 50 ft-bgs	
105	42		Tan, white sandy clay, grading to fine to medium sand	
110	7		Tan, red, white sandy clay	IW-8 screened from 84-104 ft-bgs
115	130		Tan, white clayey coarse sand	
120	170		Brown clayey sand	
125	6.5		Tan, red, white sandy clay (PWR) grading to coarse sand	
130	22		Tan clayey sand	
135	44		Dry sandy clay w/ gravel	
140	106		Tan clayey sand	
145	233		Tan sandy clay	
150	74		Tan clay w/ coarse sand	
155	61		Brown sandy clay (high plasticity)	
160	3.2		Brown hard clay and powder, dry	
165			Brown silty clay	
170			Dark brown, brown silty sand w/ gravel	
175			Dark brown silty sand	
180			White sand and gravel, PWR	
185			Tan sand and gravel, PWR	
190			Tan gravel and pulverized competent rock	
195			Gray gravel and pulverized competent rock	
200			Gneiss rock cores	



PROJECT: Rheem Manufacturing Company	Log of Boring No. IW-9	
SITE LOCATION: Milledgeville, GA	TOP OF CASING ELEVATION (ft): N/A	
DRILLING CONTRACTOR: GSE Inc.	DATE STARTED: 10/12/2017	DATE FINISHED: 10/14/2017
DRILLING METHOD: Rotosonic	TOTAL DEPTH (ft.): 120	SCREEN INTERVAL (ft.): See Below
DRILLING EQUIPMENT: TSI 150CC	DEPTH TO WATER AT TIME OF BORING (ft.): NM	CASING (ft.): See Below
SAMPLING METHOD: Sample Sleeves	BOREHOLE DIAMETER (In.): 6.25	WELL DIAMETER (In.): 2

LOGGED BY: **Justin Vickery**

DEPTH (feet)	PID Reading	DESCRIPTION		WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS	
		Ground Surface Elevation (ft):	N/A		
0		Concrete		Flush mount well vault IW-9 constructed with a single 2-inch PVC well with two distinct screened intervals within one borehole	
5	3	Red clay			
10	2	Dark gray sandy layer w/ organic odors			
15	17	Brown clay			
20	16	White, tan clayey sand saprolite			
25	3	Brown clay w/ sand			
30	2				
35	6				
40	4				
45	5		Tan coarse sand		
50	4.2	Tan sandy clay			IW-9 screened from 50-75 ft-bgs
55	2.1	Brown sand w/ clay			
60	33	Brown sandy clay/ clayey sand			
65	26	Brown sandy clay w/ coarse sand layers			
70	38	Brown sandy clay/ clayey sand			
75	40	Brown, tan, white clayey sand w/ layers of coarse sand			
80	22	Brown clay w/ sand			
85	31	Brown, white sandy clay			
90	80	Brown coarse clayey sand/sandy clay			
95	106	Tan fine to coarse sand w/ clay			
100	184	Brown, tan clayey sand		IW-9 screened from 85-120 ft-bgs	
105	106	Brown, tan, white clay w/ sand			
110	140	Brown coarse sand w/ clay			
115	175	Brown tan sandy clay/clayey sand			
120	40	Coarse sand and gravel w/ clay (some pink)			
125	40	Tan powder/crumble weathered rock, clay w/ coarse sand			
130	40	Gray sand, clayey sand w/ gravel			
135	34	Gray pulverized competent rock w/ some sand and gravel			
	28	Gray pulverized competent rock w/ some sandy clay, gravel			



PROJECT: Rheem Manufacturing Company	Log of Boring No. IW-10		
SITE LOCATION: Milledgeville, GA	TOP OF CASING ELEVATION (ft): N/A		
DRILLING CONTRACTOR: GSE Inc.	DATE STARTED: 10/16/2017	DATE FINISHED: 10/16/2017	
DRILLING METHOD: Rotasonic	TOTAL DEPTH (ft.): 115	SCREEN INTERVAL (ft.): See Below	
DRILLING EQUIPMENT: TSI 150CC	DEPTH TO WATER AT TIME OF BORING (ft.): NM	CASING (ft.): See Below	
SAMPLING METHOD: Sample Sleeves	BOREHOLE DIAMETER (In.): 6.25	WELL DIAMETER (In.): 2	

LOGGED BY: **Joe Terry**

DEPTH (feet)	PID Reading	DESCRIPTION		WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
		Ground Surface Elevation (ft): N/A		
0		Concrete		Flush mount well vault IW-10 constructed with a single 2-inch PVC well with two distinct screened intervals within one borehole
5	8.7	Red micaceous clay		
10	30.5 20.4	Orange, white micaceous clay (soft)		
15		Orange, white micaceous clay (lean)		
20	17.4	Red micaceous clay (lean)		
25	18.3	Light reddish brown micaceous clay (medium plasticity)		
30	20.3	Brown, red, white, gray micaceous clay (fat) w/ coarse sand		
35	4.1	Tan, white micaceous clay (fat) w/ coarse sand		
40		Tan, white, red micaceous clay (fat) w/ sand		
45	15.8	Reddish, brown micaceous clay (lean) w/ coarse sand		
50	23.8	Light brown micaceous clay (stiff) w/ coarse sand		
55	22.3 26.8	Tan, red, white, brown micaceous clay (stiff) w/ coarse sand		
60	1375	Brown, gray, green micaceous clay (lean, hard) w/ fine sand		
65	75.2	Brown, gray sand w/ some clay and appreciable fines		
70	32.8	Brown sand w/ appreciable fines		
75	56	Tan clay (stiff) w/ appreciable sand		
80	132 76 67	Light brown clay w/ appreciable sand		
85	56	Reddish, brown sand w/ appreciable fines		
90	162	Reddish brown micaceous clay (lean, stiff)		
95		Gray clay w/ appreciable coarse sand and rock fragments		
100	58 161	Gray, white PWR		
105		No recovery (wet core technique used)		
110		Gray, gneiss and pink feldspar (~10% recovery)		
115				
120				



PROJECT: Rheem Manufacturing Company		Log of Boring No. IW-11	
SITE LOCATION: Milledgeville, GA		TOP OF CASING ELEVATION (ft.): N/A	
DRILLING CONTRACTOR: GSE Inc.		DATE STARTED: 10/14/2017	DATE FINISHED: 10/15/2017
DRILLING METHOD: Rotasonic		TOTAL DEPTH (ft.): 125	SCREEN INTERVAL (ft.): See Below
DRILLING EQUIPMENT: TSI 150CC		DEPTH TO WATER AT TIME OF BORING (ft.): NM	CASING (ft.): See Below
SAMPLING METHOD: Sample Sleeves		BOREHOLE DIAMETER (In.): 6.25	WELL DIAMETER (In.): 2

LOGGED BY: **Alex Testoff**

DEPTH (feet)	PID Reading	DESCRIPTION		WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
		Ground Surface Elevation (ft):		
0	5.5	N/A	Concrete	Flush mount well vault IW-11 constructed with a single 2-inch PVC well with two distinct screened intervals within one borehole
5			Sand	
10	4.6		Dark gray, tan clay	
15			Tan clay	
20	12.2		Orange, tan clay	
25			Tan, orange, white, black micaceous clay	
30	9.2		Brown coarse sand	
35	8.3		Tan, white, black micaceous sandy clay	
40	4.9		Orange, tan micaceous sandy clay	
45	4.3		Tan, orange sandy PWR	
50	5		Tan, white clayey PWR w/ black mottling	
55	3.3		Tan, white, black clayey PWR	
60	9.1		Tan, white clayey PWR	
65	11.2		Tan, white sandy PWR	
70	92.6		White, tan sandy PWR	
75	329		Tan white clayey PWR	
80	123		Tan, white sandy PWR	
85	303		White, tan sandy PWR	
90			No recovery (void)	
95	396		Tan, brown, white clayey PWR	
100			Tan clayey PWR	
105	371		Tan, brown sandy PWR	
110			Sandy PWR (< 5% recovery)	
115			No recovery (wet core technique used)	
120				
125			Gray, white gneiss	
130				
135				



PROJECT: Rheem Manufacturing Company	Log of Boring No. IW-12		
SITE LOCATION: Milledgeville, GA	TOP OF CASING ELEVATION (ft): N/A		
DRILLING CONTRACTOR: GSE Inc.	DATE STARTED: 10/14/2017	DATE FINISHED: 10/15/2017	
DRILLING METHOD: Rotasonic	TOTAL DEPTH (ft.): 120	SCREEN INTERVAL (ft.): See Below	
DRILLING EQUIPMENT: TSI 150CC	DEPTH TO WATER AT TIME OF BORING (ft.): NM	CASING (ft.): See Below	
SAMPLING METHOD: Sample Sleeves	BOREHOLE DIAMETER (In.): 6.25	WELL DIAMETER (In.): 2	

LOGGED BY: **Joe Terry**

DEPTH (feet)	PID Reading	DESCRIPTION		WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
		Ground Surface Elevation (ft): N/A		
0		Concrete		Flush mount well vault IW-12 constructed with a single 2-inch PVC well with two distinct screened intervals within one borehole
5		Tan, orange clay		
10	2	Tan, orange micaceous clay		
15				
20	5.6			
25	4.4	Orange, tan, white sandy clay		
30	4.7	Tan, white micaceous clay		
35	26.9	Tan, white, orange micaceous clay		
40	24.2	Tan micaceous clay		
45	23.3	Tan, white, orange micaceous clay		
50	8.2	Tan, white micaceous clay (soft)		
55	3.3	Tan, gray micaceous clay (soft)		
60	17.4	Tan, white, orange micaceous clay (soft)		
65	27.1	Tan, gray micaceous clay (soft)		
70	19.9	Tan micaceous clay (soft)		
75		Tan micaceous clay (stiff) w/ white coarse sand		
80	30.2	Tan, brown micaceous clay (stiff) w/ coarse sand		
85	29.3	Brown micaceous clay w/ coarse sand		
90	10.9	Brown, tan micaceous clay		
95	11.8	Brown micaceous clay (stiff)		
100	46	Brown, tan pink micaceous clay (stiff) w/ sand		
105	53.8	Brown, white micaceous clay (stiff) w/ sand		
110	65	Brown, tan, white micaceous clay (stiff)		
115	93.6	Brown, tan, white micaceous clay (stiff) w/ coarse sand		
120	96.3	Brown micaceous clay (stiff) w/ coarse sand		
125	281	Brown micaceous clay (stiff)		
130	222	Brown micaceous clay w/ sand		
135	2567	Light brown PWR w/ clay and sand		
	3450	Tan PWR		
	949	Gray, blue PWR		
	346	Gray, blue PWR, competent rock core at ~120 ft-bgs (~10 % recovery)		
	74			
	415			



PROJECT: Rheem Manufacturing Company		Log of Boring No. IW-13	
SITE LOCATION: Milledgeville, GA		TOP OF CASING ELEVATION (ft): N/A	
DRILLING CONTRACTOR: GSE Inc.		DATE STARTED: 11/11/2017	DATE FINISHED: 11/11/2017
DRILLING METHOD: Rotasonic		TOTAL DEPTH (ft.): 98	SCREEN INTERVAL (ft.): See Below
DRILLING EQUIPMENT: TSI 150CC		DEPTH TO WATER AT TIME OF BORING (ft.): NM	CASING (ft.): See Below
SAMPLING METHOD: Sample Sleeves		BOREHOLE DIAMETER (In.): 6.25	WELL DIAMETER (In.): 2

LOGGED BY: Chris Forehand

DEPTH (feet)	PID Reading	DESCRIPTION		WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
		Ground Surface Elevation (ft): N/A		
0		Asphalt		Flush mount well vault
5	0.4	Red clay (lean)		
10	0.5	Tan, gray sandy clay (lean)		IW-13 constructed with a single 2-inch PVC well with two distinct screened intervals within one borehole
15	1.4	Tan, brown sandy clay (medium plasticity)		
20	5.5	Red, brown sandy clay (lean)		
25	0.8	Tan, brown sandy clay (fat)		
30	0.9	Brown, white clayey sand (medium to coarse)		
35	1.4	Red brown clayey sand (medium to coarse)		
40	3.8	Gray, white sandy micaceous clay (fat)		
45	3.3	Gray, white clayey micaceous sand (medium to coarse)		
50	23.8	Tan, white sand (medium to coarse)		
55	14.6	Brown, tan micaceous clay (fat)		
60	22.4	Brown, tan sand (medium to coarse)		IW-13 screened from 48-68 ft-bgs
65	110.2	Brown, tan sandy micaceous clay (lean)		
70	18.6	Tan, gray sandy micaceous clay (medium plasticity)		
75	8.3	Brown, tan micaceous clay (lean)		
80	8.3	Brown, tan clay (lean)		IW-13 screened from 78-98 ft-bgs
85	23.2	Brown, clayey micaceous sand (medium to coarse)		
90	11	Brown, tan sandy micaceous clay (lean)		
95	58.6	Brown, gray clayey sand (fine to medium)		
100	58.6	Brown, tan clayey sand (medium to coarse)		
105	11.1	Brown, gray clay (lean)		
110		Brown, gray PWR		
115		No recovery (wet core technique used)		
120		Gneiss		



PROJECT: Rheem Manufacturing Company		Log of Boring No. IW-14	
SITE LOCATION: Milledgeville, GA		TOP OF CASING ELEVATION (ft): N/A	
DRILLING CONTRACTOR: GSE Inc.		DATE STARTED: 11/8/2017	DATE FINISHED: 11/9/2017
DRILLING METHOD: Rotasonic		TOTAL DEPTH (ft.): 105	SCREEN INTERVAL (ft.): See Below
DRILLING EQUIPMENT: TSI 150CC		DEPTH TO WATER AT TIME OF BORING (ft.): NM	CASING (ft.): See Below
SAMPLING METHOD: Sample Sleeves		BOREHOLE DIAMETER (In.): 6.25	WELL DIAMETER (In.): 2

LOGGED BY: Alex Testoff

DEPTH (feet)	PID Reading	DESCRIPTION		WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
		Ground Surface Elevation (ft): N/A		
0		Asphalt		Flush mount well vault IW-14 constructed with a single 2-inch PVC well with two distinct screened intervals within one borehole
5	8.8	Red, tan clay (lean, stiff)		
10	6.7	Tan, brown clay (lean, stiff)		
15	10.4	Tan, brown sandy clay (lean, stiff)		
20	4.1	Tan, brown micaceous sandy clay w/ gravel (lean, soft)		
25	3.1	Brown, white micaceous clay (lean, stiff)		
30		White, gray highly micaceous clay (lean, soft)		
35	4.4	Tan, white micaceous clay (very stiff, lean)		
40		Tan, brown micaceous clay (lean, stiff)		
45	97.5	Gray, brown sandy PWR		
50	124	Gray, white, tan sandy PWR		
55	367	Tan, brown, white sandy PWR		
60	362	Tan, white, gray sandy PWR		
65	105	No recovery (wet core technique used)		
70		White, pink, gray gneiss		
75				
80				
85				
90				
95				
100				
105				
110				
115				
120				
125				
130				
135				



PROJECT: Rheem Manufacturing Company	Log of Boring No. IW-15		
SITE LOCATION: Milledgeville, GA	TOP OF CASING ELEVATION (ft): N/A		
DRILLING CONTRACTOR: GSE Inc.	DATE STARTED: 11/11/2017	DATE FINISHED: 11/11/2017	
DRILLING METHOD: Rotasonic	TOTAL DEPTH (ft.): 99	SCREEN INTERVAL (ft.): See Below	
DRILLING EQUIPMENT: TSI 150CC	DEPTH TO WATER AT TIME OF BORING (ft.): NM	CASING (ft.): See Below	
SAMPLING METHOD: Sample Sleeves	BOREHOLE DIAMETER (In.): 6.25	WELL DIAMETER (In.): 2	
LOGGED BY: Justin Vickery			

DEPTH (feet)	PID Reading	DESCRIPTION		WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
		Ground Surface Elevation (ft): N/A		
0		Asphalt		Flush mount well vault
5	10	Red clay, fine sand layer @ ~2 ft-bgs		
10	13	Tan, brown sandy clay		IW-15 constructed with a single 2-inch PVC well with two distinct screened intervals within one borehole
15	8	Brown sandy clay (medium plasticity)		
20	12	Brown clay (fat)		
25	4	Tan, brown, white clay w/ coarse sand		
30	6	Tan coarse sandy clay/clayey sand		
35	6	Tan, brown coarse sandy clay		
40	7	Tan coarse sandy clay (fat)		
45	4	Tan, brown silty clay/sandy silt (lean)		
50	22	Brown silty sand w/ clay		
55	108	Brown sandy clay (lean)		
60	81	Brown sandy clay (fat)		
65	44	Gray clay w/ sand		
70	62	Brown sand (fine to coarse)		
75	822	Gray clay w/ fine sand layers		IW-15 screened from 69-99 ft-bgs
80	449	Tan sandy PWR		
85	382	Rock lens- large gravel w/ clayey coarse sand		
90	42	Gray sandy clay (lean)		
95	16	Gray sandy clay and sandy clay		
100		Brown silty sand (fine to medium)		No recovery (wet core technique used)
105		Gray clayey silt w/ sand seams		
110		Gneiss, weathered layer @ ~89.5 ft-bgs		
115		Gneiss w/ soft layer ~90 to 93 ft-bgs		



PROJECT: Rheem Manufacturing Company		Log of Boring No. IW-16	
SITE LOCATION: Milledgeville, GA		TOP OF CASING ELEVATION (ft.): N/A	
DRILLING CONTRACTOR: GSE Inc.		DATE STARTED: 11/11/2017	DATE FINISHED: 11/12/2017
DRILLING METHOD: Rotasonic		TOTAL DEPTH (ft.): 108	SCREEN INTERVAL (ft.): See Below
DRILLING EQUIPMENT: TSI 150CC		DEPTH TO WATER AT TIME OF BORING (ft.): NM	CASING (ft.): See Below
SAMPLING METHOD: Sample Sleeves		BOREHOLE DIAMETER (In.): 6.25	WELL DIAMETER (In.): 2

LOGGED BY: Chris Forehand

DEPTH (feet)	PID Reading	DESCRIPTION		WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
		Ground Surface Elevation (ft): N/A		
0		Asphalt		Flush mount well vault IW-16 constructed with a single 2-inch PVC well with two distinct screened intervals within one borehole
5	19.8	Red, orange clay (lean, stiff)		
10	8.8	Tan, brown sandy clay (lean, stiff)		
15	6.4	Tan, brown sandy clay (lean, soft)		
20	12.6	Tan, brown sandy clay (medium plasticity)		
25	12.4	Orange, tan clay (medium plasticity)		
30		No recovery		
35	8	Tan, yellow clay (fat, saturated)		
40	7.8	Tan, gray sandy clay (medium plasticity)		
45		Tan, brown micaceous sandy clay (medium plasticity)		
50	88.6	Tan, brown micaceous sandy clay (stiff)		IW-16 screened from 53-83 ft-bgs
55	542	Tan, brown clayey sand (medium to coarse)		
60	782	Tan, brown micaceous sandy clay (lean, stiff)		
65	4081	Tan, brown micaceous clayey sand (medium to coarse)		
70	1904	Tan, brown sandy clay (medium plasticity)		
75	>15,000	Tan, brown clayey sand (fine to medium) w/ chunks of PWR		
80	>15,000	Brown, tan sand (medium to coarse)		
85	1401	Dark brown sandy micaceous clay (soft)		
90	682	Brown, white micaceous clay (lean, stiff)		
95	64	Dark brown clay (fat, soft)		
100	32	Dark brown clayey sand (medium to coarse)		IW-16 screened from 93-108 ft-bgs
105		Gray, white chunks of pulverized rocks (stiff)		
110		Gray, tan pulverized rock		
115		No recovery (wet core technique used)		
120				
125				
130				
135				



PROJECT: Rheem Manufacturing Company		Log of Boring No. IW-17	
SITE LOCATION: Milledgeville, GA		TOP OF CASING ELEVATION (ft): N/A	
DRILLING CONTRACTOR: GSE Inc.		DATE STARTED: 11/8/2017	DATE FINISHED: 11/9/2017
DRILLING METHOD: Rotosonic		TOTAL DEPTH (ft.): 90	SCREEN INTERVAL (ft.): See Below
DRILLING EQUIPMENT: TSI 150CC		DEPTH TO WATER AT TIME OF BORING (ft.): NM	CASING (ft.): See Below
SAMPLING METHOD: Sample Sleeves		BOREHOLE DIAMETER (In.): 6.25	WELL DIAMETER (In.): 2

LOGGED BY: Cameron Lee

DEPTH (feet)	PID Reading	DESCRIPTION		WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
		Ground Surface Elevation (ft): N/A		
0		Asphalt		Flush mount well vault
5	70.7	Red, tan clay (lean, stiff)		
10	69.7	Brown, tan clay (lean, stiff)		
15		Tan, brown silty clay (lean, stiff)		
20	56.6	Tan, orange slightly micaceous clay (fat, soft)		
25				
30	42	Gray, brown micaceous sandy clay w/ black mottling (lean, stiff)		
35				
40	45.8	Gray, white highly micaceous clay (fat, stiff)		
45				
50	45.9			IW-17 screened from 50-90 ft-bgs
55		Gray, white micaceous PWR		
60	630			
65				
70		No recovery (wet core technique used)		
75				
80				
85				
90		Gray, white gneiss		
95				
100				
105				
110				
115				
120				
125				
130				
135				



PROJECT: Rheem Manufacturing Company		Log of Boring No. IW-18	
SITE LOCATION: Milledgeville, GA		TOP OF CASING ELEVATION (ft): N/A	
DRILLING CONTRACTOR: GSE Inc.		DATE STARTED: 10/10/2017	DATE FINISHED: 10/11/2017
DRILLING METHOD: Rotasonic		TOTAL DEPTH (ft.): 83	SCREEN INTERVAL (ft.): See Below
DRILLING EQUIPMENT: TSI 150CC		DEPTH TO WATER AT TIME OF BORING (ft.): NM	CASING (ft.): See Below
SAMPLING METHOD: Sample Sleeves		BOREHOLE DIAMETER (In.): 6.25	WELL DIAMETER (In.): 2

LOGGED BY: **Alex Testoff**

DEPTH (feet)	PID Reading	DESCRIPTION		WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
		Ground Surface Elevation (ft): N/A		
0		Asphalt		Flush mount well vault
5		Red, tan clay		
10	10.2	Tan, gray sandy clay		
15	15.5	Tan, gray, red sandy clay		
20	9.7	Tan, gray sandy clay		
25	12	Gray micaceous sandy clay (white mica)		
30	5.2	Tan, orange micaceous clay		
35	0.9	Gray, tan micaceous sandy clay		
40	7.7	Gray, tan micaceous clayey sand		
45		Dark brown, gray sand		
48	60	Gray, tan clayey sand w/ PWR		
50	65.4	White, gray sandy PWR		
60	70.7	Gray, white, tan sandy PWR		
65	59.4			
70		Pulverized competent rock w/ some Gray, white, tan sandy PWR		
75	50.9	Tan, white sandy PWR w/ competent rock		
80	5	Gray, white gneiss w/ gray, pink gravel		
85				IW-18 screened from 48-83 ft-bgs
90				
95				
100				
105				
110				
115				
120				
125				
130				
135				



PROJECT: Rheem Manufacturing Company	Log of Boring No. IW-19		
SITE LOCATION: Milledgeville, GA	TOP OF CASING ELEVATION (ft.): N/A		
DRILLING CONTRACTOR: GSE Inc.	DATE STARTED: 10/25/2017	DATE FINISHED: 10/25/2017	
DRILLING METHOD: Rotasonic	TOTAL DEPTH (ft.): 80	SCREEN INTERVAL (ft.): See Below	
DRILLING EQUIPMENT: TSI 150CC	DEPTH TO WATER AT TIME OF BORING (ft.): NM	CASING (ft.): See Below	
SAMPLING METHOD: Sample Sleeves	BOREHOLE DIAMETER (In.): 6.25	WELL DIAMETER (In.): 2	

LOGGED BY: **Joe Terry**

DEPTH (feet)	PID Reading	DESCRIPTION		WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
		Ground Surface Elevation (ft): N/A		
0		Asphalt		Flush mount well vault
5	15.5	Red micaceous clay (lean, stiff)		
	14.6	Red, tan micaceous clay (lean, stiff)		
10	9.3	Orange micaceous clay (lean, stiff)		
		Red micaceous clay (lean, stiff)		
15	20.3	Red, tan micaceous clay (lean, stiff)		
	17.3	Tan micaceous clay w/ small to medium gravel		
20	12.5			
25	4.7			
30	13.5	Tan sandy micaceous clay (fat, soft)		
35				
40	5.2			
45	182	Tan sandy micaceous clay (lean, stiff)		
50	162 201	Tan micaceous clay (fat, soft)		
55		Reddish brown silty sand		
60	182 62	Tan sandy PWR		
65	250	Light brown fine sand w/ gravel-sized rock chunks		
70				
75				
80	280	No recovery (wet core technique used) White, pink granitic gneiss		
85				
90				
95				
100				
105				
110				
115				
120				
125				
130				
135				



PROJECT: Rheem Manufacturing Company	Log of Boring No. IW-20		
SITE LOCATION: Milledgeville, GA	TOP OF CASING ELEVATION (ft): N/A		
DRILLING CONTRACTOR: GSE Inc.	DATE STARTED: 10/25/2017	DATE FINISHED: 10/25/2017	
DRILLING METHOD: Rotosonic	TOTAL DEPTH (ft.): 85	SCREEN INTERVAL (ft.): See Below	
DRILLING EQUIPMENT: TSI 150CC	DEPTH TO WATER AT TIME OF BORING (ft.): NM	CASING (ft.): See Below	
SAMPLING METHOD: Sample Sleeves	BOREHOLE DIAMETER (In.): 6.25	WELL DIAMETER (In.): 2	

LOGGED BY: **Alex Testoff**

DEPTH (feet)	PID Reading	DESCRIPTION		WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
		Ground Surface Elevation (ft):		
0		N/A	Topsoil	Flush mount well vault
5			Red, tan clay (lean)	
10	5.5		Orange, tan micaceous sandy clay	
15			Brown, tan clay (fat)	
20	10.4		Tan, white micaceous clay	
25	33.6		Tan, brown, white micaceous clay (fat)	
30	22.2		Tan, white micaceous clay (medium plasticity)	
35			Tan sandy clay	
40	8.4		Tan, white micaceous clay	
45	10		Brown, tan sand (medium to coarse)	
50	32.2		Brown, tan sandy clay	
55	124		Tan, white micaceous clay	
60	320		Brown sand (medium to coarse)	
65	350		Tan, white sandy PWR	
70	1433		Brown, tan clayey sand	
75	520		Tan, white sandy PWR	
80	923		PWR w/ feldspar chunks	
85	305		No recovery (wet core technique used)	
90			Tan, white gneiss	
95				IW-20 screened from 50-85 ft-bgs
100				
105				
110				
115				



PROJECT: Rheem Manufacturing Company		Log of Boring No. IW-21	
SITE LOCATION: Milledgeville, GA		TOP OF CASING ELEVATION (ft): N/A	
DRILLING CONTRACTOR: GSE Inc.		DATE STARTED: 11/6/2017	DATE FINISHED: 11/6/2017
DRILLING METHOD: Rotosonic		TOTAL DEPTH (ft.): 80	SCREEN INTERVAL (ft.): See Below
DRILLING EQUIPMENT: TSI 150CC		DEPTH TO WATER AT TIME OF BORING (ft.): NM	CASING (ft.): See Below
SAMPLING METHOD: Sample Sleeves		BOREHOLE DIAMETER (In.): 6.25	WELL DIAMETER (In.): 2

LOGGED BY: **Cameron Lee**

DEPTH (feet)	PID Reading	DESCRIPTION		WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
		Ground Surface Elevation (ft): N/A		
0			Topsoil	Flush mount well vault
5	16.6		Brown, tan clay (lean, stiff)	
10	30.5		Red, gray clay (lean, stiff)	
15	29.8			
20	18.5		Tan, gray clay (fat, stiff)	
25				
30	23.2		Gray, tan micaceous clay (fat, soft)	
35	27.4		Tan, gray highly micaceous clay (fat, soft)	
40	28.4			
45			Gray, white highly micaceous clay (lean, stiff)	
50	56.8			
55			Gray, brown slightly micaceous clay (lean, stiff)	
60	307			
65			Gray sandy micaceous clay (lean, stiff)	
70	318			
75			No recovery (wet core technique used)	
80			Gray, white gneiss	
85				IW-21 screened from 50-80 ft-bgs
90				
95				
100				
105				
110				
115				
120				
125				
130				
135				



PROJECT: Rheem Manufacturing Company	Log of Boring No. IW-22		
SITE LOCATION: Milledgeville, GA	TOP OF CASING ELEVATION (ft): N/A		
DRILLING CONTRACTOR: GSE Inc.	DATE STARTED: 10/12/2017	DATE FINISHED: 10/13/2017	
DRILLING METHOD: Rotasonic	TOTAL DEPTH (ft.): 120	SCREEN INTERVAL (ft.): See Below	
DRILLING EQUIPMENT: TSI 150CC	DEPTH TO WATER AT TIME OF BORING (ft.): NM	CASING (ft.): See Below	
SAMPLING METHOD: Sample Sleeves	BOREHOLE DIAMETER (In.): 6.25	WELL DIAMETER (In.): 2	

LOGGED BY: **Alex Testoff**

DEPTH (feet)	PID Reading	DESCRIPTION		WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
		Ground Surface Elevation (ft): N/A		
0		Concrete		Flush mount well vault IW-22 constructed with a single 2-inch PVC well with two distinct screened intervals within one borehole
5	31	Red, tan clay		
10		Tan, orange clay		
15	16.6	Orange, tan clay		
19.2		Orange, tan sandy clay		
20	19.2	Gravel w/ tan clay		
25		Brown, tan coarse sand		
30	20.8	Orange, tan sandy clay		
35	24.8	Tan, white, black micaceous clay		
40	28.6	Gravel w/ brown, tan clay		
45	12.2	White, tan micaceous clay		
50	24.6	Tan, orange sandy clay		
55	29.6	White, tan micaceous clay		
60	16.6	Tan, brown sandy clay		
65	20.1	Tan, orange sandy clay		
70		White, tan, orange micaceous sandy clay		
75	120	White tan clayey PWR		
80	129	Brown, tan, white sandy PWR		
85	271	Orange, tan sandy PWR		
90	319	Tan, white pulverized PWR		
95	397	Brown coarse sand		
100		Tan, white sandy PWR		
105	400	Gray, tan coarse clayey sand, strong organic odor		
110	140	Tan, gray PWR		
115	142	Gray, tan clayey sand		
120	157	Coarse gray clayey sand		
125		Tan, gray sandy PWR		
130		Gray, white PWR		
135	52.8	Gray, white gneiss, partially pulverized		
	4.7	Gray, white PWR		
		Gray, white gneiss		



PROJECT: Rheem Manufacturing Company	Log of Boring No. IW-23		
SITE LOCATION: Milledgeville, GA	TOP OF CASING ELEVATION (ft): N/A		
DRILLING CONTRACTOR: GSE Inc.	DATE STARTED: 10/15/2017	DATE FINISHED: 10/16/2017	
DRILLING METHOD: Rotasonic	TOTAL DEPTH (ft.): 105	SCREEN INTERVAL (ft.): See Below	
DRILLING EQUIPMENT: TSI 150CC	DEPTH TO WATER AT TIME OF BORING (ft.): NM	CASING (ft.): See Below	
SAMPLING METHOD: Sample Sleeves	BOREHOLE DIAMETER (In.): 6.25	WELL DIAMETER (In.): 2	

LOGGED BY: **Alex Testoff**

DEPTH (feet)	PID Reading	DESCRIPTION		WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
		Ground Surface Elevation (ft): N/A		
0		Concrete		Flush mount well vault
5		Red, tan, gray clay		
10	5.5	Orange, tan clay		IW-23 constructed with a single 2-inch PVC well with two distinct screened intervals within one borehole
15		Orange clay		
20	5.8	Orange clay w/ coarse black sand		
25	8.2	Orange, tan clay		
30	7.7	Tan, orange sandy clay w/ black gravel		
35	12.1	Tan, white micaceous clay		
40	10.3	Tan sandy clay		
45	64	Tan, gray micaceous sandy clay		
45	74.5	Gray, tan, white micaceous clay		
50	178	Tan, brown clay		
55	74	Tan, white, brown clayey PWR		IW-23 screened from 50-65 ft-bgs
60	42.8	Gray, white, tan micaceous clay		
60	104	White, tan clayey PWR		
65		Tan, brown, white clayey PWR		
70	173	Brown, tan micaceous clay		
70		Brown, tan micaceous clay		
75		White, tan clayey PWR		
75	390	Tan, brown micaceous clay		
80	717	Gravel w/ coarse brown sandy PWR		
80		Tan, brown sandy PWR		
85	273	Tan, gray sandy PWR		IW-23 screened from 75-105 ft-bgs
90	793	Brown, tan sandy PWR		
90		Tan, brown sandy PWR		
95	373	Brown, gray sandy PWR		
95	193	Gray, tan sandy PWR		
100		Tan, gray sandy PWR		
105	0.7	Gray, white pulverized competent rock		
105		Gray, green gneiss w/ some pink feldspar		
110				
115				
120				
125				
130				
135				



PROJECT: Rheem Manufacturing Company		Log of Boring No. IW-24	
SITE LOCATION: Milledgeville, GA		TOP OF CASING ELEVATION (ft.): N/A	
DRILLING CONTRACTOR: GSE Inc.		DATE STARTED: 11/6/2017	DATE FINISHED: 11/7/2017
DRILLING METHOD: Rotosonic		TOTAL DEPTH (ft.): 80	SCREEN INTERVAL (ft.): See Below
DRILLING EQUIPMENT: TSI 150CC		DEPTH TO WATER AT TIME OF BORING (ft.): NM	CASING (ft.): See Below
SAMPLING METHOD: Sample Sleeves		BOREHOLE DIAMETER (In.): 6.25	WELL DIAMETER (In.): 2
LOGGED BY: Cameron Lee			

DEPTH (feet)	PID Reading	DESCRIPTION		WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
		Ground Surface Elevation (ft): N/A		
0		Topsoil		Flush mount well vault
5	27.9	Brown, red clay (lean, stiff)		
10	29.9	Red, gray clay (lean, stiff)		
15	25.5	Brown, red clay (lean, stiff)		
20	22.8	Brown, tan clay (fat, stiff)		
25		Tan, brown clay (fat, stiff)		
30	16.5			
35		Gray, brown clay (fat, soft)		
40	26.2			
45	30.2	Brown, tan micaceous clay (fat, soft)		
50	24.9	Tan, white sandy PWR, mostly pulverized		
55		Tan, gray sandy PWR, mostly pulverized		
60	459			
65		Gray, white sandy PWR		
70	2777			
75		No recovery (wet core technique used)		
80		Gray, tan granitic gneiss		
85				IW-24 screened from 50-80 ft-bgs
90				
95				
100				
105				
110				
115				
120				
125				
130				
135				



PROJECT: Rheem Manufacturing Company		Log of Boring No. IW-25	
SITE LOCATION: Milledgeville, GA		TOP OF CASING ELEVATION (ft): N/A	
DRILLING CONTRACTOR: GSE Inc.	DATE STARTED: 11/7/2017	DATE FINISHED: 11/7/2017	
DRILLING METHOD: Rotasonic	TOTAL DEPTH (ft.): 80	SCREEN INTERVAL (ft.): See Below	
DRILLING EQUIPMENT: TSI 150CC	DEPTH TO WATER AT TIME OF BORING (ft.): NM	CASING (ft.): See Below	
SAMPLING METHOD: Sample Sleeves	BOREHOLE DIAMETER (In.): 6.25	WELL DIAMETER (In.): 2	

LOGGED BY: Cameron Lee

DEPTH (feet)	PID Reading	DESCRIPTION		WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
		Ground Surface Elevation (ft):		
0		N/A	Topsoil	Flush mount well vault
5	42.2		Red, brown silty clay (lean, stiff)	
10	12.2		Brown, red silty clay (lean, stiff)	
15	29.4		Tan, gray silty clay (fat, stiff)	
20	49.9		Brown, tan silty clay (fat, soft)	
25				
30	52.8		Orange, white clay (fat, stiff)	
35				
40	69.4		Tan, brown sand (fine to medium)	
45	117			
50	6884		Gray, brown micaceous silty clay (fat, stiff)	
55				
60	1782		Brown, tan sand (fine to medium)	
65				
70			Gray, black sandy PWR, mostly pulverized	
75			Gray, white gneiss	
80				IW-25 screened from 50-80 ft-bgs
85				
90				
95				
100				
105				
110				
115				
120				
125				
130				
135				



PROJECT: Rheem Manufacturing Company	Log of Boring No. IW-26		
SITE LOCATION: Milledgeville, GA	TOP OF CASING ELEVATION (ft.): N/A		
DRILLING CONTRACTOR: GSE Inc.	DATE STARTED: 10/31/2017	DATE FINISHED: 11/6/2017	
DRILLING METHOD: Rotosonic	TOTAL DEPTH (ft.): 82	SCREEN INTERVAL (ft.): See Below	
DRILLING EQUIPMENT: TSI 150CC	DEPTH TO WATER AT TIME OF BORING (ft.): NM	CASING (ft.): See Below	
SAMPLING METHOD: Sample Sleeves	BOREHOLE DIAMETER (In.): 6.25	WELL DIAMETER (In.): 2	

LOGGED BY: **Alex Testoff**

DEPTH (feet)	PID Reading	DESCRIPTION		WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
		Ground Surface Elevation (ft):		
0		N/A	Topsoil	Flush mount well vault
5	71.8		Red, tan clay (lean, stiff)	
10	55.8		Tan, orange clay (lean, soft)	
15			Brown, orange sandy clay (lean, stiff)	
20	62.1		Tan, white micaceous sandy clay (fat, soft)	
25	49.9		Light brown, tan micaceous sandy clay (lean, soft)	
30	66.1		Gray, brown, white micaceous clay (fat, soft)	
35	45.3		Tan, brown micaceous clay (lean, soft)	
40	60.1		Brown sand (medium to coarse)	
45			Tan, brown sandy clay (lean, stiff)	
50	652		Tan, brown clayey PWR	
55	668		Tan, brown sandy PWR	
60	684		Tan, gray, white sandy PWR	
65			Brown, gray sandy PWR	
70	358		Gray, tan granitic gneiss	
75				
80	200			
85				
90				
95				
100				
105				
110				
115				
120				
125				
130				
135				



PROJECT: Rheem Manufacturing Company	Log of Boring No. IW-27		
SITE LOCATION: Milledgeville, GA	TOP OF CASING ELEVATION (ft): N/A		
DRILLING CONTRACTOR: GSE Inc.	DATE STARTED: 10/25/2017	DATE FINISHED: 10/26/2017	
DRILLING METHOD: Rotasonic	TOTAL DEPTH (ft.): 77	SCREEN INTERVAL (ft.): See Below	
DRILLING EQUIPMENT: TSI 150CC	DEPTH TO WATER AT TIME OF BORING (ft.): NM	CASING (ft.): See Below	
SAMPLING METHOD: Sample Sleeves	BOREHOLE DIAMETER (In.): 6.25	WELL DIAMETER (In.): 2	

LOGGED BY: **Joe Terry**

DEPTH (feet)	PID Reading	DESCRIPTION		WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
		Ground Surface Elevation (ft): N/A		
0		Asphalt		Flush mount well vault
5		Red micaceous clay (lean, stiff)		
10	35	Reddish tan micaceous clay (lean, soft) w/ some gravel		
15				
20	44			
25	48	Brown micaceous clay (lean, soft)		
30				
35	66	Brown sandy micaceous clay (lean, soft)		
40	150	Brown sandy micaceous clay (lean, stiff)		
45				
50	151	Brown clayey sand		
55	150			
60	356			
65	172	Light brown silty sand w/ some clay		IW-27 screened from 42-77 ft-bgs
70	110			
75	1552			
80	340	No recovery (wet core technique used)		
85	16.5	Reddish granite		



PROJECT: Rheem Manufacturing Company	Log of Boring No. IW-28		
SITE LOCATION: Milledgeville, GA	TOP OF CASING ELEVATION (ft.): N/A		
DRILLING CONTRACTOR: GSE Inc.	DATE STARTED: 11/8/2017	DATE FINISHED: 11/8/2017	
DRILLING METHOD: Rotosonic	TOTAL DEPTH (ft.):	SCREEN INTERVAL (ft.): See Below	
DRILLING EQUIPMENT: TSI 150CC	DEPTH TO WATER AT TIME OF BORING (ft.): NM	CASING (ft.): See Below	
SAMPLING METHOD: Sample Sleeves	BOREHOLE DIAMETER (In.): 6.25	WELL DIAMETER (In.): 2	

LOGGED BY: **Cameron Lee**

DEPTH (feet)	PID Reading	DESCRIPTION		WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
		Ground Surface Elevation (ft): N/A		
0		Concrete		Flush mount well vault
5	99.7	Red, gray clay (lean, stiff)		
10	103	Tan, gray clay (lean, stiff)		
15	64.2	Brown, gray silty clay (lean, stiff)		
20	79.7	Tan, brown micaceous clay w/ black mottling (lean, stiff)		
25		Brown, tan micaceous clay w/ black mottling (lean, stiff)		
30	146			
35		Tan, gray micaceous silty clay (lean, stiff)		
40	83.3			
45	923	Brown, tan sandy clay (lean, stiff)		
50	223	Brown, black micaceous clay w/ black mottling (lean, stiff)		IW-28 screened from 40-80 ft-bgs
55				
60	1351	Brown, white micaceous clay (lean, stiff)		
65				
70	>15,000			
75		Gray, white granitic gneiss		
80				
85				
90				
95				
100				
105				
110				
115				
120				
125				
130				
135				



PROJECT: Rheem Manufacturing Company	Log of Boring No. IW-29		
SITE LOCATION: Milledgeville, GA	TOP OF CASING ELEVATION (ft.): N/A		
DRILLING CONTRACTOR: GSE Inc.	DATE STARTED: 10/31/2017	DATE FINISHED: 11/1/2017	
DRILLING METHOD: Rotasonic	TOTAL DEPTH (ft.): 90	SCREEN INTERVAL (ft.): See Below	
DRILLING EQUIPMENT: TSI 150CC	DEPTH TO WATER AT TIME OF BORING (ft.): NM	CASING (ft.): See Below	
SAMPLING METHOD: Sample Sleeves	BOREHOLE DIAMETER (In.): 6.25	WELL DIAMETER (In.): 2	

LOGGED BY: **Joe Terry**

DEPTH (feet)	PID Reading	DESCRIPTION		WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
		Ground Surface Elevation (ft): N/A		
0		Concrete		Flush mount well vault
5		Red, gray sandy micaceous clay (lean, stiff)		IW-29 constructed with a single 2-inch PVC well with two distinct screened intervals within one borehole
10	32			
15		Brown sandy micaceous clay (fat, soft)		IW-29 screened from 40-60 ft-bgs
20	17			
25		Brown clayey sand		IW-29 screened from 70-90 ft-bgs
30	17.2			
35	14.7			
40	17			
45	83			
50	1829			
55				
60	> 15,000			
65		Gray clayey sand		
70				
75		No recovery (wet core technique used)		
80				
85				
90		Gray granitic gneiss		
95				
100				
105				
110				
115				
120				
125				
130				
135				



PROJECT:	Rheem Manufacturing Company	Log of Boring No.	IW-30
SITE LOCATION:	Milledgeville, GA	TOP OF CASING ELEVATION (ft):	N/A
DRILLING CONTRACTOR:	GSE Inc.	DATE STARTED:	10/13/2017
		DATE FINISHED:	10/14/2017
DRILLING METHOD:	Rotosonic	TOTAL DEPTH (ft.):	90
		SCREEN INTERVAL (ft.):	See Below
DRILLING EQUIPMENT:	TSI 150CC	DEPTH TO WATER AT TIME OF BORING (ft.):	NM
		CASING (ft.):	See Below
SAMPLING METHOD:	Sample Sleeves	BOREHOLE DIAMETER (In.):	6.25
		WELL DIAMETER (In.):	2

LOGGED BY: **Alex Testoff**

DEPTH (feet)	PID Reading	DESCRIPTION		WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS	
		Ground Surface Elevation (ft): N/A			
0		Concrete		Flush mount well vault	
5	21.2	Brown, red clayey sand		IW-30 constructed with a single 2-inch PVC well with two distinct screened intervals within one borehole	
10	27.7	Orange, tan clay			
15		Tan, brown coarse sand			
20	20	Tan, orange clay			
25	12.2	Tan, brown clay (high plasticity)			
30	23	Tan, brown, orange sandy clay			
35		Tan, orange, black micaceous clay			
40	111	Tan, white, black micaceous clay			
45	130	Tan coarse sand			
50	363	Tan, white, black micaceous sandy clay			
55	545	Orange, brown, tan micaceous clay			
60	270	Tan, white, orange micaceous clay			
65	473	Tan, brown, gray, micaceous sandy clay			
70	1343	Gray, tan micaceous sandy clay			
75	727	Tan, white, gray micaceous sandy clay, strong odor			
80	2592	Tan, white pulverized PWR			
85		Coarse brown sand w/ PWR 79 ft-bgs			
90	346.1	Tan, brown clayey PWR			
95	0.9	Gray, white gneiss			
100					IW-30 screened from 40-55 ft-bgs
105					
110					
115					
120					
125				IW-30 screened from 65-90 ft-bgs	
130					
135					



PROJECT: Rheem Manufacturing Company		Log of Boring No. IW-31	
SITE LOCATION: Milledgeville, GA		TOP OF CASING ELEVATION (ft): N/A	
DRILLING CONTRACTOR: GSE Inc.		DATE STARTED: 10/16/2017	DATE FINISHED: 10/16/2017
DRILLING METHOD: Rotasonic		TOTAL DEPTH (ft.): 100	SCREEN INTERVAL (ft.): See Below
DRILLING EQUIPMENT: TSI 150CC		DEPTH TO WATER AT TIME OF BORING (ft.): NM	CASING (ft.): See Below
SAMPLING METHOD: Sample Sleeves		BOREHOLE DIAMETER (In.): 6.25	WELL DIAMETER (In.): 2

LOGGED BY: Alex Testoff

DEPTH (feet)	PID Reading	DESCRIPTION		WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
		Ground Surface Elevation (ft): N/A		
0		Concrete		Flush mount well vault IW-31 constructed with a single 2-inch PVC well with two distinct screened intervals within one borehole
5	19.2	Red, orange sandy clay		
10	30.5	Dark gray, orange sandy clay		
15	119	Tan, orange clay (lean)		
20	118	Tan, orange sandy clay (lean)		
25	174	Tan sandy clay (lean) w/ black mottling		
30	152			
35	67.5	Tan, orange micaceous clay (stiff)		
40	30.1	Tan, orange micaceous sandy clay (stiff)		
45	445	Tan, dark gray micaceous sandy clay		
50	417	Tan clayey sand (appreciable sand, high plasticity)		
55	175	Tan, gray, white micaceous clay		
60	297	Tan, brown micaceous sandy clay		
65	515	Tan gray PWR w/ coarse sand and clay		
70				
75	125	Tan clayey PWR		
80	553	Gray, tan sandy PWR		
85	404	Gray sandy PWR		
90	313	Brown, gray clayey PWR		
95	0	No recovery (wet core technique used)		
100		Gray, white gneiss		

PROJECT: Rheem Manufacturing Company	Log of Boring No. IW-32		
SITE LOCATION: Milledgeville, GA	TOP OF CASING ELEVATION (ft.): N/A		
DRILLING CONTRACTOR: GSE Inc.	DATE STARTED: 10/30/2017	DATE FINISHED: 10/30/2017	
DRILLING METHOD: Rotosonic	TOTAL DEPTH (ft.): 90	SCREEN INTERVAL (ft.): See Below	
DRILLING EQUIPMENT: TSI 150CC	DEPTH TO WATER AT TIME OF BORING (ft.): NM	CASING (ft.): See Below	
SAMPLING METHOD: Sample Sleeves	BOREHOLE DIAMETER (In.): 6.25	WELL DIAMETER (In.): 2	

LOGGED BY: **Joe Terry**

DEPTH (feet)	PID Reading	DESCRIPTION		WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
		Ground Surface Elevation (ft): N/A		
0		Topsoil		Flush mount well vault IW-32 constructed with a single 2-inch PVC well with two distinct screened intervals within one borehole
5		Red, orange clay (lean, stiff)		
10	28			
15	6.2	Light brown, orange sandy micaceous clay (fat, soft)		
20	13.2			
25		Light brown sandy clay (fat, soft)		
30	16.9			
35		Tan sandy clay (fat, soft)		
40	951			
45				
50	642 8815	Brown silty sand w/ some clay		IW-32 screened from 40-60 ft-bgs
55	> 15,000			
60		Brown, gray, white silty sand		
65	> 15,000			
70	> 15,000	Brown, gray silty sand		IW-32 screened from 70-90 ft-bgs
75				
80	> 15,000	No recovery (wet core technique used)		
85		Feldspar and gneiss		
90				
95				
100				
105				
110				
115				
120				
125				
130				
135				



PROJECT: Rheem Manufacturing Company		Log of Boring No. IW-33	
SITE LOCATION: Milledgeville, GA		TOP OF CASING ELEVATION (ft): N/A	
DRILLING CONTRACTOR: GSE Inc.		DATE STARTED: 11/6/2017	DATE FINISHED: 11/7/2017
DRILLING METHOD: Rotasonic		TOTAL DEPTH (ft.): 80	SCREEN INTERVAL (ft.): See Below
DRILLING EQUIPMENT: TSI 150CC		DEPTH TO WATER AT TIME OF BORING (ft.): NM	CASING (ft.): See Below
SAMPLING METHOD: Sample Sleeves		BOREHOLE DIAMETER (In.): 6.25	WELL DIAMETER (In.): 2
LOGGED BY: Alex Testoff			

DEPTH (feet)	PID Reading	DESCRIPTION		WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
		Ground Surface Elevation (ft):		
0		N/A	Topsoil	Flush mount well vault IW-33 constructed with a single 2-inch PVC well with two distinct screened intervals within one borehole IW-33 screened from 25-40 ft-bgs IW-33 screened from 50-80 ft-bgs
5	8.4		Orange, tan clay (lean, stiff)	
10	12.2		Orange, brown clay w/ gravel (lean, stiff)	
15			Tan, brown micaceous sandy clay (lean, soft)	
20	18.6		Tan, gray micaceous sandy clay (fat, soft)	
25	26.7		Tan, white clayey sand (medium to coarse)	
30	50.2		Tan, brown sandy clay (soft, fat)	
35			Tan, brown sandy micaceous clay (lean)	
40	105		Tan, white micaceous clay (lean, stiff)	
45	126		Tan, brown clayey sand (fine to medium)	
50			Tan, white clayey sand (medium to coarse)	
55	677		Gray, white sandy PWR	
60	1255		No recovery (wet core technique used)	
65			Gray, tan granitic gneiss	
70	1711			
75				
80				
85				
90				
95				
100				
105				
110				
115				
120				
125				
130				
135				



PROJECT: Rheem Manufacturing Company	Log of Boring No. IW-34		
SITE LOCATION: Milledgeville, GA	TOP OF CASING ELEVATION (ft): N/A		
DRILLING CONTRACTOR: GSE Inc.	DATE STARTED: 10/30/2017	DATE FINISHED: 10/31/2017	
DRILLING METHOD: Rotasonic	TOTAL DEPTH (ft.): 70	SCREEN INTERVAL (ft.): See Below	
DRILLING EQUIPMENT: TSI 150CC	DEPTH TO WATER AT TIME OF BORING (ft.): NM	CASING (ft.): See Below	
SAMPLING METHOD: Sample Sleeves	BOREHOLE DIAMETER (In.): 6.25	WELL DIAMETER (In.): 2	

LOGGED BY: **Alex Testoff**

DEPTH (feet)	PID Reading	DESCRIPTION		WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
		Ground Surface Elevation (ft): N/A		
0		Concrete		Flush mount well vault
5	121	Red, tan clay (lean, stiff)		
10	186	Tan, orange clay (lean, stiff)		
15		Tan micaceous clay (fat, soft)		
20	111	Tan, white, orange micaceous sandy clay (lean, soft)		
25	22.7	Tan sandy micaceous clay (fat, soft)		
30	143	Brown sand (medium to coarse)		
35	556	Tan, brown micaceous clay (lean, very stiff)		
40	872	Tan, brown sand (fine to medium) w/ some micaceous clay		
45	888	Pulverized tan, white sandy PWR		
50	1849	No recovery (wet core technique used)		
55	771	Tan, white granitic gneiss		
60	655			
65				IW-34 screened from 40-70 ft-bgs
70				
75				
80				
85				
90				
95				
100				
105				
110				
115				
120				
125				
130				
135				



PROJECT: Rheem Manufacturing Company	Log of Boring No. IW-35		
SITE LOCATION: Milledgeville, GA	TOP OF CASING ELEVATION (ft): N/A		
DRILLING CONTRACTOR: GSE Inc.	DATE STARTED: 10/26/2017	DATE FINISHED: 10/26/2017	
DRILLING METHOD: Rotasonic	TOTAL DEPTH (ft.): 73.5	SCREEN INTERVAL (ft.): See Below	
DRILLING EQUIPMENT: TSI 150CC	DEPTH TO WATER AT TIME OF BORING (ft.): NM	CASING (ft.): See Below	
SAMPLING METHOD: Sample Sleeves	BOREHOLE DIAMETER (In.): 6.25	WELL DIAMETER (In.): 2	

LOGGED BY: **Joe Terry**

DEPTH (feet)	PID Reading	DESCRIPTION		WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
		Ground Surface Elevation (ft):		
0		N/A	Asphalt	Flush mount well vault IW-35 constructed with a single 2-inch PVC well with two distinct screened intervals within one borehole IW-35 screened from 23-43 ft-bgs IW-35 screened from 53-73 ft-bgs
5	35		Red micaceous clay (fat, stiff)	
10	27		Orange, gray sandy micaceous clay (lean)	
15	17		Brown sandy micaceous clay (lean, soft)	
20	8.7		Tan sandy micaceous clay (lean, soft)	
25	8.2		Tan, brown micaceous sandy clay (lean, soft)	
30	10.1		Gray, brown micaceous clay (lean, soft) w/ coarse sand	
35	7.1		Brown sandy micaceous clay (lean, soft)	
40	4.6		Gray sandy micaceous clay (lean, stiff)	
45	163		Tan silty sand (fine) w/ some clay	
50	320		Gray silty sand (fine) w/ some clay	
55	280		Tan silty sand (fine) w/ some clay	
60	162			
65	390		Brown sandy clay (lean, stiff)	
70			Gray, pink granitic gneiss	
75				
80				
85				
90				
95				
100				
105				
110				
115				
120				
125				
130				
135				



PROJECT: Rheem Manufacturing Company	Log of Boring No. IW-36		
SITE LOCATION: Milledgeville, GA	TOP OF CASING ELEVATION (ft): N/A		
DRILLING CONTRACTOR: GSE Inc.	DATE STARTED: 10/27/2017	DATE FINISHED: 10/28/2017	
DRILLING METHOD: Rotosonic	TOTAL DEPTH (ft.): 75	SCREEN INTERVAL (ft.): See Below	
DRILLING EQUIPMENT: TSI 150CC	DEPTH TO WATER AT TIME OF BORING (ft.): NM	CASING (ft.): See Below	
SAMPLING METHOD: Sample Sleeves	BOREHOLE DIAMETER (In.): 6.25	WELL DIAMETER (In.): 2	

LOGGED BY: **Joe Terry**

DEPTH (feet)	PID Reading	DESCRIPTION		WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
		Ground Surface Elevation (ft): N/A		
0		Topsoil		Flush mount well vault
5	8.2	Red sandy micaceous clay (lean, stiff)		
10	3.7	Red, tan sandy micaceous clay (lean, stiff)		
15	12	Orange, tan sandy micaceous clay (lean, stiff)		
25	6.5	Orange, tan sandy micaceous clay (fat, soft)		
35	6.3	Brown sandy micaceous clay (fat, soft)		
40	7.1	Brown clayey sand		
50	498			
55	2567			
60	618			
65	802			
70	506	Brown sandy clay		IW-36 screened from 36-71 ft-bgs
70	895	No recovery (wet core technique used)		
75	795	Gray granitic gneiss		
80				
85				
90				
95				
100				
105				
110				
115				
120				
125				
130				
135				



PROJECT: Rheem Manufacturing Company		Log of Boring No. IW-37	
SITE LOCATION: Milledgeville, GA		TOP OF CASING ELEVATION (ft): N/A	
DRILLING CONTRACTOR: GSE Inc.		DATE STARTED: 10/26/2017	DATE FINISHED: 10/27/2017
DRILLING METHOD: Rotasonic		TOTAL DEPTH (ft.): 90	SCREEN INTERVAL (ft.): See Below
DRILLING EQUIPMENT: TSI 150CC		DEPTH TO WATER AT TIME OF BORING (ft.): NM	CASING (ft.): See Below
SAMPLING METHOD: Sample Sleeves		BOREHOLE DIAMETER (In.): 6.25	WELL DIAMETER (In.): 2

LOGGED BY: Alex Testoff

DEPTH (feet)	PID Reading	DESCRIPTION		WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
		Ground Surface Elevation (ft): N/A		
0		Topsoil		Flush mount well vault IW-37 constructed with a single 2-inch PVC well with two distinct screened intervals within one borehole
5	8.8	Red, tan clay (lean, stiff)		
10	14.7	Red, tan clay (lean, stiff) w/ some fine sand		
15	14.9	Tan, orange micaceous clay (lean)		
20	15.3	Tan, brown micaceous clay (lean, stiff)		
25		No recovery		
30	150	Tan, white micaceous clay (lean, soft)		
35		Tan, white highly micaceous clay (lean, soft)		
40	1196	Tan, orange, white micaceous clay (lean)		
45	2790	Tan, white, brown highly micaceous sandy clay (lean)		
50	3556	Tan, brown, white micaceous silty clay (lean)		
55	3540	Tan, orange sandy PWR		
60		Tan, borwn clayey sand (medium to coarse)		
65	1222			IW-37 screened from 30-55 ft-bgs
70	853			
75		No recovery (wet core technique used)		IW-37 screened from 65-90 ft-bgs
90		Gray, white, tan granitic gneiss		



PROJECT: Rheem Manufacturing Company	Log of Boring No. IW-38		
SITE LOCATION: Milledgeville, GA	TOP OF CASING ELEVATION (ft): N/A		
DRILLING CONTRACTOR: GSE Inc.	DATE STARTED: 10/17/2017	DATE FINISHED: 10/17/2017	
DRILLING METHOD: Rotosonic	TOTAL DEPTH (ft.): 100	SCREEN INTERVAL (ft.): See Below	
DRILLING EQUIPMENT: TSI 150CC	DEPTH TO WATER AT TIME OF BORING (ft.): NM	CASING (ft.): See Below	
SAMPLING METHOD: Sample Sleeves	BOREHOLE DIAMETER (In.): 6.25	WELL DIAMETER (In.): 2	

LOGGED BY: **Joe Terry**

DEPTH (feet)	PID Reading	DESCRIPTION		WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
		Ground Surface Elevation (ft): N/A		
0		Concrete		Flush mount well vault
5	35	Red micaceous clay (fat, stiff)		
10	37	Red, white micaceous clay (lean, stiff)		
15	35	Red micaceous clay w/ some sand		
20	49.5	Reddish brown micaceous clay (lean, soft) w/ sand		
25	45	Reddish brown micaceous clay (fat, soft) w/ sand		
30	22	Tan, red micaceous clay (soft, fat)		
35	25			
40	16			
45	5226	Red, gray micaceous clay (lean, medium stiff)		
50	>15,000	Gray, red micaceous clay (lean, medium stiff)		
55	>15,000	Gray, red micaceous clay (lean, medium stiff)		
60	>15,000	Gray, red micaceous clay (lean, medium stiff) w/ some sand		
65		Gray, reddish brown micaceous clay (lean, stiff) w/ appreciable coarse sand		
70	>15,000			
75	>15,000	Brown, gray PWR		
80	>15,000	Brown to gray PWR w/ large rock fragments near 80 ft-bgs		
85	>15,000	Gray micaceous clay (lean, stiff) w/ coarse sand		
90	>15,000	Gray, white PWR		IW-38 screened from 70-100 ft-bgs
95	>15,000	Light brown PWR, strong odor		
100	>15,000	Gray granitic gneiss		
105				
110				
115				
120				
125				
130				
135				



PROJECT: Rheem Manufacturing Company		Log of Boring No. IW-39	
SITE LOCATION: Milledgeville, GA		TOP OF CASING ELEVATION (ft): N/A	
DRILLING CONTRACTOR: GSE Inc.		DATE STARTED: 10/17/2017	DATE FINISHED: 10/17/2017
DRILLING METHOD: Rotasonic		TOTAL DEPTH (ft.): 100	SCREEN INTERVAL (ft.): See Below
DRILLING EQUIPMENT: TSI 150CC		DEPTH TO WATER AT TIME OF BORING (ft.): NM	CASING (ft.): See Below
SAMPLING METHOD: Sample Sleeves		BOREHOLE DIAMETER (In.): 6.25	WELL DIAMETER (In.): 2

LOGGED BY: **Alex Testoff**

DEPTH (feet)	PID Reading	DESCRIPTION		WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
		Ground Surface Elevation (ft): N/A		
0		Concrete		Flush mount well vault
5	134	Dark brown, tan clay (medium plasticity)		
10	102	Tan, orange clay (low plasticity)		IW-39 constructed with a single 2-inch PVC well with two distinct screened intervals within one borehole
15	132	Tan, white micaceous clay (low plasticity)		
20	225	Dark tan, gray micaceous clay (low plasticity)		
25	76.5	Tan, light brown sandy clay		
30		Tan, orange, white micaceous sandy clay		
35	33.8	Tan, brown sandy clay		
40	27.4	Tan, brown sandy clay w/ black mottling		
45	108	Tan, white micaceous sandy clay		
50	193	Tan sandy clay (high plasticity)		
55	1093	Gray, tan clayey PWR, strong odor		
60	1326	Tan, gray sandy PWR		
65	1412	Tan, sandy clay		
70	770	Brown coarse sand		
75		Tan, brown, gray sandy PWR		
80	12350 > 15,000	Tan, orange sandy PWR		
85		No recovery (wet core technique used)		IW-39 screened from 70-100 ft-bgs
90				
95				
100	4	Gray, tan, white gneiss		



PROJECT: Rheem Manufacturing Company	Log of Boring No. IW-40		
SITE LOCATION: Milledgeville, GA	TOP OF CASING ELEVATION (ft): N/A		
DRILLING CONTRACTOR: GSE Inc.	DATE STARTED: 10/11/2017	DATE FINISHED: 10/12/2017	
DRILLING METHOD: Rotasonic	TOTAL DEPTH (ft.): 90	SCREEN INTERVAL (ft.): See Below	
DRILLING EQUIPMENT: TSI 150CC	DEPTH TO WATER AT TIME OF BORING (ft.): NM	CASING (ft.): See Below	
SAMPLING METHOD: Sample Sleeves	BOREHOLE DIAMETER (In.): 6.25	WELL DIAMETER (In.): 2	

LOGGED BY: **Alex Testoff**

DEPTH (feet)	PID Reading	DESCRIPTION		WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
		Ground Surface Elevation (ft): N/A		
0		Topsoil		Flush mount well vault IW-40 constructed with a single 2-inch PVC well with two distinct screened intervals within one borehole
5	10	Red, tan sandy clay		
10	22.1	Tan, orange, white sandy clay		
15	14.9	Tan, orange micaceous clay		
20	16	Tan, brown, white micaceous sandy clay		
25		Tan, orange, white micaceous sandy clay		
30	21.6	Orange, tan sandy clay		
35	399	Brown, tan, white micaceous clay		
40				
45				
50	> 15,000	Brown, tan, white sandy PWR, strong odor		
55	> 15,000			
60	> 15,000	White, brown sandy PWR, strong odor		
65	> 15,000	Brown, white sandy PWR, strong odor		
70	> 15,000	Brown, white clayey PWR		
75	192.7	Brown, orange clay		
80	4977	Tan, white clayey PWR, sand lense at ~69.5 ft-bgs		
85	> 15,000	Brown, tan sandy clay		
90	> 15,000	White, tan sandy PWR, rock lense at ~83 ft-bgs, strong odor		
95		White, tan PWR		
100		Gray, white gneiss, mostly pulverized		
105				
110				
115				
120				
125				
130				
135				



PROJECT: Rheem Manufacturing Company	Log of Boring No. IW-41		
SITE LOCATION: Milledgeville, GA	TOP OF CASING ELEVATION (ft): N/A		
DRILLING CONTRACTOR: GSE Inc.	DATE STARTED: 10/27/2017	DATE FINISHED: 10/27/2017	
DRILLING METHOD: Rotosonic	TOTAL DEPTH (ft.): 90	SCREEN INTERVAL (ft.): See Below	
DRILLING EQUIPMENT: TSI 150CC	DEPTH TO WATER AT TIME OF BORING (ft.): NM	CASING (ft.): See Below	
SAMPLING METHOD: Sample Sleeves	BOREHOLE DIAMETER (In.): 6.25	WELL DIAMETER (In.): 2	

LOGGED BY: **Alex Testoff**

DEPTH (feet)	PID Reading	DESCRIPTION		WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
		Ground Surface Elevation (ft): N/A		
0			Topsoil	Flush mount well vault
5	35.2		Reddish brown clay (lean, stiff)	
10	30.8		Red, tan clay (lean, stiff)	IW-41 constructed with a single 2-inch PVC well with two distinct screened intervals within one borehole
15	8.8		Brown, tan micaceous clay (fat, soft)	
20	10.2		Tan, orange micaceous clay (fat, soft)	
25			Tan, orange, white micaceous clay (fat, soft)	
30	27.9		Tan, white micaceous sandy clay (fat, soft)	
35	278			
40	256		Brown, orange clayey sand (medium to coarse) w/ mica	
45	537		Tan, orange, white highly micaceous clay (lean, stiff)	
50	555		Tan, white highly micaceous clay (lean, stiff)	
55	4500		Tan, white clayey sand	
60	3671		Tan, brown sandy clay (lean, soft)	IW-41 screened from 30-60 ft-bgs
65	1035		Tan, white, gray sandy PWR	
70	2044		Tan, gray sandy PWR	
75			Tan, gray sandy clay (fat, soft)	
80	2330		Pulverized tan, gray sandy PWR	
85			No recovery (wet core technique used)	
90			Tan granitic gneiss transitioning to gray, white gneiss	
95				
100				
105				
110				
115				
120				
125				
130				
135				



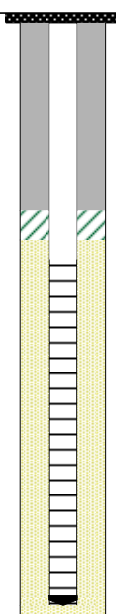
PROJECT: Rheem Manufacturing Company	Log of Boring No. IW-42		
SITE LOCATION: Milledgeville, GA	TOP OF CASING ELEVATION (ft): N/A		
DRILLING CONTRACTOR: GSE Inc.	DATE STARTED: 10/27/2017	DATE FINISHED: 10/27/2017	
DRILLING METHOD: Rotasonic	TOTAL DEPTH (ft.): 70	SCREEN INTERVAL (ft.): See Below	
DRILLING EQUIPMENT: TSI 150CC	DEPTH TO WATER AT TIME OF BORING (ft.): NM	CASING (ft.): See Below	
SAMPLING METHOD: Sample Sleeves	BOREHOLE DIAMETER (In.): 6.25	WELL DIAMETER (In.): 2	

LOGGED BY: **Joe Terry**

DEPTH (feet)	PID Reading	DESCRIPTION		WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
		Ground Surface Elevation (ft): N/A		
0		Concrete		Flush mount well vault IW-42 constructed with a single 2-inch PVC well with two distinct screened intervals within one borehole IW-42 screened from 25-40 ft-bgs IW-42 screened from 50-70 ft-bgs
5		Red, gray micaceous clay (lean, stiff)		
10	252	Gray, red micaceous clay (lean, very stiff)		
15		Gray micaceous clay (fat, soft)		
20	234	Gray micaceous clay (lean, very stiff) w/ some fine sand		
25	78			
30	320	Gray sandy micaceous clay (lean, stiff)		
35	1978	Brown, white silty sand (fine) w/ some clay		
40	2318	Gray silty sand (fine) w/ some clay		
45	211	Gray, brown silty sand		
50	147	Tan silty sand (fine)		
55	175	Brown, white, gray PWR		
60	418	No recovery (wet core technique used)		
65	1350	Gray, white granitic gneiss		
70	394			
75	658			
80	594			
85				
90				
95				
100				
105				
110				
115				
120				
125				
130				
135				



PROJECT: Rheem Manufacturing Company		Log of Boring No. IW-43	
SITE LOCATION: Milledgeville, GA		TOP OF CASING ELEVATION (ft): N/A	
DRILLING CONTRACTOR: GSE Inc.		DATE STARTED: 11/6/2017	DATE FINISHED: 11/6/2017
DRILLING METHOD: Rotosonic		TOTAL DEPTH (ft.): 60	SCREEN INTERVAL (ft.): See Below
DRILLING EQUIPMENT: TSI 150CC		DEPTH TO WATER AT TIME OF BORING (ft.): NM	CASING (ft.): See Below
SAMPLING METHOD: Sample Sleeves		BOREHOLE DIAMETER (In.): 6.25	WELL DIAMETER (In.): 2
LOGGED BY: Alex Testoff			

DEPTH (feet)	PID Reading	DESCRIPTION		WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
		Ground Surface Elevation (ft): N/A		
0		Topsoil		 <p>Flush mount well vault</p> <p>IW-43 screened from 25-60 ft-bgs</p>
5	8.6	Red, tan clay (lean, stiff)		
10	18.4	Tan, white micaceous clay (medium plasticity)		
15		Tan sandy clay (fat, soft)		
20	4	Gray, white micaceous clay (fat, soft)		
25	75.9	Orange, white micaceous sandy clay (fat, soft)		
30	117	Tan, brown clayey sand (medium to coarse)		
35	248	Brown sand (fine to medium)		
40		Brown, gray clayey sand (medium to coarse)		
45	571	Gray, tan sandy PWR		
50		Tan, gray sandy PWR, mostly pulverized		
55	336	Gray, white sandy PWR, mostly pulverized		
60	301	Gray, white gneiss		
65				
70				
75				
80				
85				
90				
95				
100				
105				
110				
115				
120				
125				
130				
135				



PROJECT: Rheem Manufacturing Company		Log of Boring No. IW-44	
SITE LOCATION: Milledgeville, GA		TOP OF CASING ELEVATION (ft): N/A	
DRILLING CONTRACTOR: GSE Inc.		DATE STARTED: 11/10/2017	DATE FINISHED: 11/10/2017
DRILLING METHOD: Rotasonic		TOTAL DEPTH (ft.): 80	SCREEN INTERVAL (ft.): See Below
DRILLING EQUIPMENT: TSI 150CC		DEPTH TO WATER AT TIME OF BORING (ft.): NM	CASING (ft.): See Below
SAMPLING METHOD: Sample Sleeves		BOREHOLE DIAMETER (In.): 6.25	WELL DIAMETER (In.): 2
LOGGED BY: Alex Testoff			

DEPTH (feet)	PID Reading	DESCRIPTION		WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
		Ground Surface Elevation (ft): N/A		
0		Concrete		Flush mount well vault IW-44 constructed with a single 2-inch PVC well with two distinct screened intervals within one borehole IW-44 screened from 25-45 ft-bgs IW-44 screened from 55-80 ft-bgs
0 - 5	8.3	Red, orange clay (lean, stiff)		
5 - 10	13	Gray, tan silty clay (lean, stiff)		
10 - 15		Tan, orange, brown sandy clay (fat, soft)		
15 - 20	237	Light brown clayey sand (medium to coarse)		
20 - 25	92.6	Tan, light brown sandy clay (very stiff, lean)		
25 - 30		Tan, brown sand (medium to coarse)		
30 - 35	105	Tan, brown sand (medium to coarse) w/ large chunks of gravel		
35 - 40	>15,000	Tan, brown clayey sand (fine to medium)		
40 - 45	>15,000	Tan sandy PWR		
45 - 50	>15,000			
50 - 55	>15,000			
55 - 60	>15,000			
60 - 65		No recovery (wet core technique used)		
65 - 70				
70 - 75				
75 - 80		Gray, white gneiss, mostly pulverized, large competent rock chunks present		
80 - 85				
85 - 90				
90 - 95				
95 - 100				
100 - 105				
105 - 110				
110 - 115				
115 - 120				
120 - 125				
125 - 130				
130 - 135				



PROJECT: Rheem Manufacturing Company	Log of Boring No. IW-45	
SITE LOCATION: Milledgeville, GA	TOP OF CASING ELEVATION (ft): N/A	
DRILLING CONTRACTOR: GSE Inc.	DATE STARTED: 10/26/2017	DATE FINISHED: 10/26/2017
DRILLING METHOD: Rotasonic	TOTAL DEPTH (ft.): 85	SCREEN INTERVAL (ft.): See Below
DRILLING EQUIPMENT: TSI 150CC	DEPTH TO WATER AT TIME OF BORING (ft.): NM	CASING (ft.): See Below
SAMPLING METHOD: Sample Sleeves	BOREHOLE DIAMETER (In.): 6.25	WELL DIAMETER (In.): 2

LOGGED BY: **Alex Testoff**

DEPTH (feet)	PID Reading	DESCRIPTION		WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
		Ground Surface Elevation (ft):		
0		N/A	Topsoil	Flush mount well vault IW-45 constructed with a single 2-inch PVC well with two distinct screened intervals within one borehole IW-45 screened from 27-42 ft-bgs IW-45 screened from 52-82 ft-bgs
5	0.9		Red, tan clay (lean, stiff)	
10	4.5		Red, tan sandy clay (lean, soft)	
15	555		Tan, orange, white micaceous clay (medium plasticity, soft)	
20	1350		Tan micaceous clay (fat, soft)	
25	> 15,000		Tan, brown micaceous clay (medium plasticity, soft)	
30	> 15,000		Tan, brown, white micaceous clay (fat, soft)	
35	> 15,000		Tan, gray clayey sand (fine to medium)	
40	> 15,000		Tan, gray sandy clay (medium plasticity)	
45	> 15,000		Tan, white highly micaceous clay (lean, stiff)	
50	> 15,000		Tan micaceous clay (fat, soft)	
55	> 15,000		Tan brown sand (medium to coarse)	
60	> 15,000		Tan, brown sandy clay (medium plasticity)	
65	> 15,000		Gravel with some fine sand	
70	> 15,000		Tan, brown sand	
75	> 15,000		Tan, brown sandy PWR	
80	50.4		Tan sandy PWR w/ gravel & chunks of feldspar	
85			No recovery (wet core technique used)	
90			Gray, white gneiss	



PROJECT: Rheem Manufacturing Company	Log of Boring No. IW-46		
SITE LOCATION: Milledgeville, GA	TOP OF CASING ELEVATION (ft.): N/A		
DRILLING CONTRACTOR: GSE Inc.	DATE STARTED: 10/17/2017	DATE FINISHED: 10/23/2017	
DRILLING METHOD: Rotasonic	TOTAL DEPTH (ft.): 105	SCREEN INTERVAL (ft.): See Below	
DRILLING EQUIPMENT: TSI 150CC	DEPTH TO WATER AT TIME OF BORING (ft.): NM	CASING (ft.): See Below	
SAMPLING METHOD: Sample Sleeves	BOREHOLE DIAMETER (In.): 6.25	WELL DIAMETER (In.): 2	

LOGGED BY: **Joe Terry**

DEPTH (feet)	PID Reading	DESCRIPTION		WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
		Ground Surface Elevation (ft):		
0		N/A	Concrete	Flush mount well vault IW-46 constructed with a single 2-inch PVC well with two distinct screened intervals within one borehole IW-46 screened from 25-65 ft-bgs IW-46 screened from 75-105 ft-bgs
5	17		Reddish brown micaceous clay (lean, stiff)	
10	35		Tan micaceous clay (fat, soft)	
15	23.7		Tan sandy micaceous clay (fat, soft)	
20	39.4		Tan gray sandy micaceous clay (lean, very stiff)	
25			Brown micaceous clay (lean, stiff)	
30	11		Brown silty sand (fine)	
35			Tan silty sand (fan)	
40	32		Gray PWR, strong odor	
45	2124		Gray PWR	
50	> 15,000		Brown sand (coarse) w/ competent rock chunks	
55			Gray, white gneiss	
60	> 15,000			
65	> 15,000			
70	3200			
75	1190			
80	> 15,000			
85				
90	> 15,000			
95	550			
100	457			
105	0.55			
110				
115				
120				
125				
130				
135				



PROJECT: Rheem Manufacturing Company		Log of Boring No. IW-47	
SITE LOCATION: Milledgeville, GA		TOP OF CASING ELEVATION (ft): N/A	
DRILLING CONTRACTOR: GSE Inc.		DATE STARTED: 10/23/2017	DATE FINISHED: 10/24/2017
DRILLING METHOD: Rotasonic		TOTAL DEPTH (ft.): 115	SCREEN INTERVAL (ft.): See Below
DRILLING EQUIPMENT: TSI 150CC		DEPTH TO WATER AT TIME OF BORING (ft.): NM	CASING (ft.): See Below
SAMPLING METHOD: Sample Sleeves		BOREHOLE DIAMETER (In.): 6.25	WELL DIAMETER (In.): 2

LOGGED BY: **Sofie Weber-Snapp**

DEPTH (feet)	PID Reading	DESCRIPTION		WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
		Ground Surface Elevation (ft): N/A		
0	46.4	Concrete		Flush mount well vault IW-47 constructed with a single 2-inch PVC well with two distinct screened intervals within one borehole
5	25.4			
10	36.3	Reddish brown micaceous clay (lean)		
15	149.3			
20	99.8	Tan sandy micaceous clay (fat, soft)		
25	69.7			
30	110	Tan sandy micaceous clay (fat, stiff)		
35	38.7			
40	88.3	Tan micaceous clay (stiff)		
45	27.9			
50	160	Tan, brown sandy clay		
55	29.3			
60	159	Tan silty sand (fine)		
65	205			
70	66.3	Tan sand (coarse)		
75		Brown sand (coarse) w/ chunks of competent rock		
80	375			
85	12.4	No recovery (wet core technique used)		
90	281			
95		Brown sand (coarse) w/ chunks of competent rock		
100	189			
105		Gray, white gneiss		
110	12.8			
115				
120				
125				
130				
135				



PROJECT: Rheem Manufacturing Company		Log of Boring No. IW-48	
SITE LOCATION: Milledgeville, GA		TOP OF CASING ELEVATION (ft): N/A	
DRILLING CONTRACTOR: GSE Inc.		DATE STARTED: 10/30/2017	DATE FINISHED: 10/30/2017
DRILLING METHOD: Rotasonic		TOTAL DEPTH (ft.): 90	SCREEN INTERVAL (ft.): See Below
DRILLING EQUIPMENT: TSI 150CC		DEPTH TO WATER AT TIME OF BORING (ft.): NM	CASING (ft.): See Below
SAMPLING METHOD: Sample Sleeves		BOREHOLE DIAMETER (In.): 6.25	WELL DIAMETER (In.): 2

LOGGED BY: **Joe Terry**

DEPTH (feet)	PID Reading	DESCRIPTION		WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
		Ground Surface Elevation (ft): N/A		
0		Concrete		Flush mount well vault IW-48 constructed with a single 2-inch PVC well with two distinct screened intervals within one borehole
5	7.2	Brown sandy clay (lean, stiff)		
10	14.2	Tan, red sandy clay (lean, stiff)		
15		Brown micaceous sandy clay (lean, soft)		
20	160			
25				
30	403	Brown micaceous sandy clay (fat, soft)		
35				
40	210			
45				
50	150			IW-48 screened from 25-45 ft-bgs
55		Brown clayey sand		
60	4094			
65		Brown sand (fine)		
70	6810			
75		Brown silty sand (fine)		IW-48 screened from 55-90 ft-bgs
80	5200			
85		No recovery		
90		Gray, white granitic gneiss		
95				
100				
105				
110				
115				
120				
125				
130				
135				



PROJECT: Rheem Manufacturing Company		Log of Boring No. IW-49	
SITE LOCATION: Milledgeville, GA		TOP OF CASING ELEVATION (ft): N/A	
DRILLING CONTRACTOR: GSE Inc.		DATE STARTED: 10/28/2017	DATE FINISHED: 10/28/2017
DRILLING METHOD: Rotosonic		TOTAL DEPTH (ft.): 100	SCREEN INTERVAL (ft.): See Below
DRILLING EQUIPMENT: TSI 150CC		DEPTH TO WATER AT TIME OF BORING (ft.): NM	CASING (ft.): See Below
SAMPLING METHOD: Sample Sleeves		BOREHOLE DIAMETER (In.): 6.25	WELL DIAMETER (In.): 2

LOGGED BY: **Joe Terry**

DEPTH (feet)	PID Reading	DESCRIPTION		WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
		Ground Surface Elevation (ft): N/A		
0		Concrete		Flush mount well vault IW-49 constructed with a single 2-inch PVC well with two distinct screened intervals within one borehole
5	9.5	Red micaceous clay (lean, stiff)		
10	97	Brown sandy micaceous clay (lean, stiff)		
15	162	Orange, tan micaceous sandy clay (fat, soft)		
20	148	Brown micaceous sandy clay (lean, soft)		
25	192	Gray micaceous sandy clay (fat, soft)		
30	643	Tan micaceous sandy clay (fat, soft)		
35	522	Brown micaceous sandy clay (fat, soft)		
40	518	Brown micaceous sandy clay (fat, soft)		
45	3024	Brown micaceous sandy clay (fat, soft)		
50	1906	Tan sandy micaceous clay (fat, soft)		
55	4580	Gray micaceous sandy clay (fat, soft)		
60	1527	Brown silty sand		
65	6831	Brown silty sand		
70	1931	Brown silty sand		
75	5877	Brown silty sand		
80		No recovery (wet core technique used)		IW-49 screened from 65-100 ft-bgs
85		Gray granitic gneiss		
90		Gray granitic gneiss		
95				
100				
105				
110				
115				
120				
125				
130				
135				



PROJECT: Rheem Manufacturing Company	Log of Boring No. IW-50		
SITE LOCATION: Milledgeville, GA	TOP OF CASING ELEVATION (ft): N/A		
DRILLING CONTRACTOR: GSE Inc.	DATE STARTED: 10/29/2017	DATE FINISHED: 10/29/2017	
DRILLING METHOD: Rotosonic	TOTAL DEPTH (ft.): 89	SCREEN INTERVAL (ft.): See Below	
DRILLING EQUIPMENT: TSI 150CC	DEPTH TO WATER AT TIME OF BORING (ft.): NM	CASING (ft.): See Below	
SAMPLING METHOD: Sample Sleeves	BOREHOLE DIAMETER (In.): 6.25	WELL DIAMETER (In.): 2	

LOGGED BY: **Joe Terry**

DEPTH (feet)	PID Reading	DESCRIPTION		WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
		Ground Surface Elevation (ft): N/A		
0		Concrete		Flush mount well vault IW-50 constructed with a single 2-inch PVC well with two distinct screened intervals within one borehole IW-50 screened from 24-44 ft-bgs IW-50 screened from 54-89 ft-bgs
5	133	Red sandy micaceous clay (lean, soft)		
10	400	Tan silty sand		
15	387			
20	736	Brown micaceous sandy clay (fat, soft)		
25	2275			
30	> 15,000			
35		Brown sandy micaceous clay (fat, soft)		
40	> 15,000			
45				
50	7500	Brown micaceous sandy clay (fat, soft)		
55	> 15,000			
60	> 15,000	Brown clayey sand		
65	> 15,000	Gray micaceous sandy clay (fat, soft)		
70	> 15,000			
75	1548	Gray clayey sand		
80	3500	Tan silty sand		
85		No recovery (wet core technique used)		
90		Gray, white granitic gneiss		
95				
100				
105				
110				
115				
120				
125				
130				
135				



PROJECT: Rheem Manufacturing Company		Log of Boring No. IW-51	
SITE LOCATION: Milledgeville, GA		TOP OF CASING ELEVATION (ft): N/A	
DRILLING CONTRACTOR: GSE Inc.		DATE STARTED: 11/9/2017	DATE FINISHED: 11/10/2017
DRILLING METHOD: Rotosonic		TOTAL DEPTH (ft.): 90	SCREEN INTERVAL (ft.): See Below
DRILLING EQUIPMENT: TSI 150CC		DEPTH TO WATER AT TIME OF BORING (ft.): NM	CASING (ft.): See Below
SAMPLING METHOD: Sample Sleeves		BOREHOLE DIAMETER (In.): 6.25	WELL DIAMETER (In.): 2

LOGGED BY: Cameron Lee

DEPTH (feet)	PID Reading	DESCRIPTION		WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
		Ground Surface Elevation (ft): N/A		
0		Concrete		<p>Flush mount well vault</p> <p>IW-51 constructed with a single 2-inch PVC well with two distinct screened intervals within one borehole</p> <p>IW-51 screened from 25-55 ft-bgs</p> <p>IW-51 screened from 65-90 ft-bgs</p>
5	71.9	Brown, orange clay (lean, stiff)		
10	106	Gray, orange silty clay (lean, stiff)		
15	46.1	Orange, gray silty clay (lean, stiff)		
20	109	Gray, white micaceous clay (lean, stiff)		
25		Tan, gray clay (fat, soft)		
30	>15,000			
35		Tan, gray micaceous clay (fat, soft)		
40	>15,000			
45		Gray, tan sand (medium to coarse)		
50	>15,000			
55		Tan, brown sand (fine to medium)		
60	>15,000			
65		Tan, gray sand (medium to coarse)		
70	1384			
75		Gray, tan sandy PWR		
80	5950			
85		No recovery (wet core technique used)		
90		Graym, white, tan gneiss		
95				
100				
105				
110				
115				
120				
125				
130				
135				



PROJECT: Rheem Manufacturing Company		Log of Boring No. IW-52	
SITE LOCATION: Milledgeville, GA		TOP OF CASING ELEVATION (ft): N/A	
DRILLING CONTRACTOR: GSE Inc.		DATE STARTED: 11/9/2017	DATE FINISHED: 11/10/2017
DRILLING METHOD: Rotasonic		TOTAL DEPTH (ft.): 90	SCREEN INTERVAL (ft.): See Below
DRILLING EQUIPMENT: TSI 150CC		DEPTH TO WATER AT TIME OF BORING (ft.): NM	CASING (ft.): See Below
SAMPLING METHOD: Sample Sleeves		BOREHOLE DIAMETER (In.): 6.25	WELL DIAMETER (In.): 2

LOGGED BY: Alex Testoff

DEPTH (feet)	PID Reading	DESCRIPTION		WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
		Ground Surface Elevation (ft): N/A		
0		Concrete		Flush mount well vault IW-52 constructed with a single 2-inch PVC well with two distinct screened intervals within one borehole
5		Orange, tan micaceous clay (lean, stiff)		
10	15.4	Orange, tan sandy clay (lean, soft)		
15	7.6	Brown, tan micaceous clay (fat, soft)		
20	586	Orange, tan clay w/ black mottling (fat, soft)		
25	375	Brown, gray micaceous clay (fat, soft)		
30	6.8	Brown micaceous clay (fat, soft)		
35		Gray, brown, white micaceous clay w/ gravel		
40	361	Orange, tan sandy PWR		
45	>15,000	Tan clayey sand (medium to coarse)		
50	>15,000	Brown clayey sand (medium to coarse) w/ gravel		
55		Tan sandy PWR		
60	>15,000	No recovery (wet core technique used)		
65	>15,000	Gray, white gneiss		
70	>15,000			IW-52 screened from 25-55 ft-bgs
75				
80				
85				
90				
95				
100				
105				
110				
115				
120				
125				
130				
135				



PROJECT: Rheem Manufacturing Company		Log of Boring No. IW-53	
SITE LOCATION: Milledgeville, GA		TOP OF CASING ELEVATION (ft): N/A	
DRILLING CONTRACTOR: GSE Inc.		DATE STARTED: 11/10/2017	DATE FINISHED: 11/10/2017
DRILLING METHOD: Rotosonic		TOTAL DEPTH (ft.): 70	SCREEN INTERVAL (ft.): See Below
DRILLING EQUIPMENT: TSI 150CC		DEPTH TO WATER AT TIME OF BORING (ft.): NM	CASING (ft.): See Below
SAMPLING METHOD: Sample Sleeves		BOREHOLE DIAMETER (In.): 6.25	WELL DIAMETER (In.): 2

LOGGED BY: Cameron Lee

DEPTH (feet)	PID Reading	DESCRIPTION		WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
		Ground Surface Elevation (ft): N/A		
0		Concrete		Flush mount well vault IW-53 constructed with a single 2-inch PVC well with two distinct screened intervals within one borehole IW-53 screened from 25-40 ft-bgs IW-53 screened from 50-70 ft-bgs
5		Tan, orange sandy clay (lean, stiff)		
10	53.3	Brown, tan micaceous clay (lean, soft)		
15	27.9	Black, brown micaceous clay (fat, soft)		
20	95.5	Brown, gray silty clay (fat, soft)		
25				
30	1178	Tan, orange silty sand (medium to coarse)		
35				
40	445	Tan, orange sandy clay (lean, stiff)		
45	376	Tan, orange micaceous sand (medium to coarse)		
50	4779	Orange, tan sand (medium to coarse)		
55				
60	8488	Gray PWR		
65		Gray, white gneiss, mostly pulverized, significant competent rock chunks present		
70				
75				
80				
85				
90				
95				
100				
105				
110				
115				
120				
125				
130				
135				



PROJECT: Rheem Manufacturing Company	Log of Boring No. IW-54		
SITE LOCATION: Milledgeville, GA	TOP OF CASING ELEVATION (ft): N/A		
DRILLING CONTRACTOR: GSE Inc.	DATE STARTED: 10/29/2017	DATE FINISHED: 10/29/2017	
DRILLING METHOD: Rotasonic	TOTAL DEPTH (ft.): 100	SCREEN INTERVAL (ft.): See Below	
DRILLING EQUIPMENT: TSI 150CC	DEPTH TO WATER AT TIME OF BORING (ft.): NM	CASING (ft.): See Below	
SAMPLING METHOD: Sample Sleeves	BOREHOLE DIAMETER (In.): 6.25	WELL DIAMETER (In.): 2	

LOGGED BY: Marie Weber-Goeke

DEPTH (feet)	PID Reading	DESCRIPTION		WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
		Ground Surface Elevation (ft):		
0		N/A	Concrete	Flush mount well vault
0-5	24.2		Red clay	
5-10	12.1		Tan, red clay	IW-54 constructed with a single 2-inch PVC well with two distinct screened intervals within one borehole
10-15	33.3		Red, tan clay	
15-25	118		Tan micaceous clay (fat, soft)	
25-35	1489		Tan micaceous clay (fat, soft) w/ black mottling	IW-54 screened from 25-55 ft-bgs
35-40	1823		Tan, gray sandy micaceous clay (soft)	
40-45	> 15,000		Tan, orange sandy PWR, mostly pulverized	IW-54 screened from 65-100 ft-bgs
45-50	392		Brown, tan sandy PWR, mostly pulverized	
50-55	520		Tan, brown sandy PWR, mostly pulverized	
55-60	101		Dark gray PWR w/ chunks of competent rock	
60-80	155		No recovery (wet core technique used)	
80-95	86		Gray granitic gneiss	



PROJECT: Rheem Manufacturing Company		Log of Boring No. IW-55	
SITE LOCATION: Milledgeville, GA		TOP OF CASING ELEVATION (ft): N/A	
DRILLING CONTRACTOR: GSE Inc.		DATE STARTED: 10/30/2017	DATE FINISHED: 10/30/2017
DRILLING METHOD: Rotosonic		TOTAL DEPTH (ft.): 89	SCREEN INTERVAL (ft.): See Below
DRILLING EQUIPMENT: TSI 150CC		DEPTH TO WATER AT TIME OF BORING (ft.): NM	CASING (ft.): See Below
SAMPLING METHOD: Sample Sleeves		BOREHOLE DIAMETER (In.): 6.25	WELL DIAMETER (In.): 2

LOGGED BY: Alex Testoff

DEPTH (feet)	PID Reading	DESCRIPTION		WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
		Ground Surface Elevation (ft): N/A		
0		Concrete		Flush mount well vault IW-55 constructed with a single 2-inch PVC well with two distinct screened intervals within one borehole
5	105	Red, brown clay (lean, stiff)		
10	123	Tan, white clayey sand (fine to medium)		
15	124	Brown micaceous clay (lean, soft)		
20		Brown micaceous clay (fat, soft)		
25	6557	Brown micaceous clay (fat, soft)		
30	> 15,000	Brown, tan micaceous clay (lean, soft)		
35		Brown micaceous sandy clay (fat, soft)		
40	> 15,000	Tan, white, orange micaceous clay (fat, soft)		
45	> 15,000	Tan clayey sand (fine)		
50		Tan, orange clayey sand (fine to medium)		
55	> 15,000	Tan pulverized sandy PWR		
60	386	Brown sand (medium to coarse)		
65		Tan pulverized sandy PWR		
70	444	Brown, tan pulverized sandy PWR		
75	523	Tan pulverized sandy PWR		
80	86	No recovery (wet core technique used)		
85		Gray, white gneiss		
90	10.2			IW-55 screened from 63-88 ft-bgs
95				
100				
105				
110				
115				
120				
125				
130				
135				



PROJECT: Rheem Manufacturing Company	Log of Boring No. IW-56		
SITE LOCATION: Milledgeville, GA	TOP OF CASING ELEVATION (ft.): N/A		
DRILLING CONTRACTOR: GSE Inc.	DATE STARTED: 10/29/2017	DATE FINISHED: 10/30/2017	
DRILLING METHOD: Rotasonic	TOTAL DEPTH (ft.): 88	SCREEN INTERVAL (ft.): See Below	
DRILLING EQUIPMENT: TSI 150CC	DEPTH TO WATER AT TIME OF BORING (ft.): NM	CASING (ft.): See Below	
SAMPLING METHOD: Sample Sleeves	BOREHOLE DIAMETER (In.): 6.25	WELL DIAMETER (In.): 2	

LOGGED BY: **Joe Terry**

DEPTH (feet)	PID Reading	DESCRIPTION		WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
		Ground Surface Elevation (ft): N/A		
0		Concrete		Flush mount well vault
5		Red sandy micaceous clay (lean, soft)		
10	55			IW-56 constructed with a single 2-inch PVC well with two distinct screened intervals within one borehole
15		Brown sandy clay		
20	57			IW-56 screened from 26-46 ft-bgs
25		No recovery		
30				IW-56 screened from 56-86 ft-bgs
35	10866			
40		Brown sandy clay (fat, soft)		
45				
50	2201			
55				
60	> 15,000			
65		Brown, gray clayey sand		
70	6782			
75		Brown sand (fine)		
80	345			
85		No recovery (wet core technique used)		
90		Gray, white granitic gneiss		
95				
100				
105				
110				
115				
120				
125				
130				
135				



PROJECT: Rheem Manufacturing Company		Log of Boring No. IW-57	
SITE LOCATION: Milledgeville, GA		TOP OF CASING ELEVATION (ft): N/A	
DRILLING CONTRACTOR: GSE Inc.		DATE STARTED: 10/17/2017	DATE FINISHED: 10/17/2017
DRILLING METHOD: Rotosonic		TOTAL DEPTH (ft.): 90	SCREEN INTERVAL (ft.): See Below
DRILLING EQUIPMENT: TSI 150CC		DEPTH TO WATER AT TIME OF BORING (ft.): NM	CASING (ft.): See Below
SAMPLING METHOD: Sample Sleeves		BOREHOLE DIAMETER (In.): 6.25	WELL DIAMETER (In.): 2

LOGGED BY: **Alex Testoff**

DEPTH (feet)	PID Reading	DESCRIPTION		WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
		Ground Surface Elevation (ft): N/A		
0		Concrete		Flush mount well vault IW-57 constructed with a single 2-inch PVC well with two distinct screened intervals within one borehole IW-57 screened from 25-50 ft-bgs IW-57 screened from 60-90 ft-bgs
5	40.3	Orange, tan sandy clay		
10		Tan, orange, brown sandy clay		
15				
20	24.4	Tan, brown, white micaceous sandy clay (high plasticity)		
25	52.6	Tan, white micaceous sandy clay (high plasticity)		
30	41.8	Tan, brown micaceous sandy clay		
35	28.4	Tan, gray micaceous sandy clay		
40	71.2	Tan, brown, white micaceous clay		
45	123	Tan, gray sandy clay		
50	62.4	Tan, orange sandy clay		
55	64.1	Brown, tan, white micaceous clay (~50 % recovery)		
60	10.9	Gray, tan micaceous sandy clay		
65	50.2	Tan, white sandy PWR		
70	64.7	Gray, tan clayey PWR		
75	66.6	Gray, tan, white sandy PWR		
80	90.4	Gray clayey sand w/ large gravel		
85	110	Gray, white, tan gneiss		
90				
95				
100				
105				
110				
115				
120				
125				
130				
135				



PROJECT: Rheem Manufacturing Company	Log of Boring No. IW-58		
SITE LOCATION: Milledgeville, GA	TOP OF CASING ELEVATION (ft): N/A		
DRILLING CONTRACTOR: GSE Inc.	DATE STARTED: 10/23/2017	DATE FINISHED: 10/24/2017	
DRILLING METHOD: Rotasonic	TOTAL DEPTH (ft.): 90	SCREEN INTERVAL (ft.): See Below	
DRILLING EQUIPMENT: TSI 150CC	DEPTH TO WATER AT TIME OF BORING (ft.): NM	CASING (ft.): See Below	
SAMPLING METHOD: Sample Sleeves	BOREHOLE DIAMETER (In.): 6.25	WELL DIAMETER (In.): 2	

LOGGED BY: **Alex Testoff**

DEPTH (feet)	PID Reading	DESCRIPTION		WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
		Ground Surface Elevation (ft):		
0		N/A	Concrete	Flush mount well vault
5	0.8		Red clay	
10	1.2		Tan, red clay	IW-58 constructed with a single 2-inch PVC well with two distinct screened intervals within one borehole
15	4.8		Tan silty clay (low plasticity)	
20	62.1		Orange clay w/ black mottling	
25	48.2		Tan, orange sandy clay	
30			Tan, white, brown micaceous clay	
35	100		Orange, tan clayey sand (coarse)	
40	7		Tan, white micaceous clay	
45	23		Orange, tan micaceous clay	
50	31.7		Tan, white micaceous clay	
55	37		Orange, tan sandy clay	
60	37.9		Tan, white sandy PWR, mostly pulverized	IW-58 screened from 25-50 ft-bgs
65	54.4		Tan, brown sandy PWR	
70	46.8		Gray, tan sandy PWR, slight odor	
75	57		Gray, tan PWR	IW-58 screened from 60-90 ft-bgs
80	121		No recovery (wet core technique used)	
85	23.8		Granitic gneiss	



PROJECT: Rheem Manufacturing Company	Log of Boring No. IW-59		
SITE LOCATION: Milledgeville, GA	TOP OF CASING ELEVATION (ft): N/A		
DRILLING CONTRACTOR: GSE Inc.	DATE STARTED: 10/28/2017	DATE FINISHED: 10/29/2017	
DRILLING METHOD: Rotasonic	TOTAL DEPTH (ft.): 90	SCREEN INTERVAL (ft.): See Below	
DRILLING EQUIPMENT: TSI 150CC	DEPTH TO WATER AT TIME OF BORING (ft.): NM	CASING (ft.): See Below	
SAMPLING METHOD: Sample Sleeves	BOREHOLE DIAMETER (In.): 6.25	WELL DIAMETER (In.): 2	

LOGGED BY: Marie Weber-Goeke

DEPTH (feet)	PID Reading	DESCRIPTION		WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
		Ground Surface Elevation (ft): N/A		
0	28.7	Concrete		Flush mount well vault
5		Red clay		
10	4.7	Tan, red clay		IW-59 constructed with a single 2-inch PVC well with two distinct screened intervals within one borehole
15	24.7	Red clay w/ black mottling		
20	31	Tan, orange sandy clay		
25	33.6	Brown micaceous clay		
30	506	Tan micaceous clay		
35	532	Orange, tan micaceous clay		
40	74.3	Tan micaceous clay (fat, soft)		
45	3442	Coarse sand w/ tan, white micaceous clay		
50	182	Orange tan sandy clay		
55	201	Tan, brown sand		
60	170	Tan brown sandy PWR, mostly pulverized		IW-59 screened from 25-50 ft-bgs
65	142	Tan, gray sandy PWR		
70	91	Tan, brown sandy PWR		
75	87	Gray, tan sandy PWR		
80	64	No recovery (wet core technique used)		IW-59 screened from 60-90 ft-bgs
90		Granitic gneiss at ~90 ft-bgs		



PROJECT: Rheem Manufacturing Company		Log of Boring No. IW-60	
SITE LOCATION: Milledgeville, GA		TOP OF CASING ELEVATION (ft): N/A	
DRILLING CONTRACTOR: GSE Inc.		DATE STARTED: 10/24/2017	DATE FINISHED: 10/25/2017
DRILLING METHOD: Rotosonic		TOTAL DEPTH (ft.): 100	SCREEN INTERVAL (ft.): See Below
DRILLING EQUIPMENT: TSI 150CC		DEPTH TO WATER AT TIME OF BORING (ft.): NM	CASING (ft.): See Below
SAMPLING METHOD: Sample Sleeves		BOREHOLE DIAMETER (In.): 6.25	WELL DIAMETER (In.): 2

LOGGED BY: Alex Testoff

DEPTH (feet)	PID Reading	DESCRIPTION		WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
		Ground Surface Elevation (ft): N/A		
0	8.1	Concrete		Flush mount well vault IW-60 constructed with a single 2-inch PVC well with two distinct screened intervals within one borehole
5		Brown, orange clay w/ gravel		
10	22.2	Orange, tan clay (lean)		
15	24.6	White, tan clay (lean)		
20		Tan orange clayey sand (fine to medium)		
25	30.9	Tan orange clayey sand (medium to coarse)		
30	102	Tan, brown clayey sand (medium to coarse)		
35		Tan, brown sandy clay (fat)		
40	48.2	Brown, orange sandy clay		
45	0.9	Brown clayey sand (medium to coarse)		
50	33.3	Tan, brown micaceous sandy clay (stiff)		
55		Tan, brown clayey sand (medium to coarse)		
60	52	Tan, gray sandy PWR		
65	28.3	Tan sandy PWR w/ gravel-sized feldspar		
70	38.7	No recovery (wet core technique used)		
75	8.4	Gray, brown granitic gneiss		
80	6.9			IW-60 screened from 20-50 ft-bgs
85				
90				
95				
100	8.4			IW-60 screened from 60-95 ft-bgs
105				
110				
115				
120				
125				
130				
135				

PROJECT: Rheem Manufacturing Company		Log of Boring No. IW-61	
SITE LOCATION: Milledgeville, GA		TOP OF CASING ELEVATION (ft): N/A	
DRILLING CONTRACTOR: GSE Inc.		DATE STARTED: 10/27/2017	DATE FINISHED: 10/28/2017
DRILLING METHOD: Rotasonic		TOTAL DEPTH (ft.): 100	SCREEN INTERVAL (ft.): See Below
DRILLING EQUIPMENT: TSI 150CC		DEPTH TO WATER AT TIME OF BORING (ft.): NM	CASING (ft.): See Below
SAMPLING METHOD: Sample Sleeves		BOREHOLE DIAMETER (In.): 6.25	WELL DIAMETER (In.): 2

LOGGED BY: Marie Weber-Goeke

DEPTH (feet)	PID Reading	DESCRIPTION		WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
		Ground Surface Elevation (ft):	N/A	
0			Topsoil	Flush mount well vault IW-61 constructed with a single 2-inch PVC well with two distinct screened intervals within one borehole IW-61 screened from 27-57 ft-bgs IW-61 screened from 67-97 ft-bgs
5	125		Tan, white clayey (lean, stiff) sand (fine to medium)	
10	230		Tan, white micaceous clay (lean, stiff)	
15	347		Tan, brown micaceous clay (lean, soft)	
20	247 207		Brown, gray sandy micaceous clay (lean, soft)	
25			Gray micaceous clay (lean, soft)	
30	374 194		Brown, gray, tan micaceous clay (lean, soft)	
35			Gray silty sand (fine)	
40	127		Tan silty sand (fine)	
45	78 75 63		Gray silty sand (fine) w/ some clay (lean, soft)	
50			Tan silty sand (fine)	
55	67		Gray micaceous clay (lean, soft)	
60	38 36		Gray sandy clay (lean, stiff)	
65			Brown clayey sand w/ some mica	
70	9 14.9 47.6 67		Gray sandy clay (lean, soft)	
75			Tan sandy PWR	
80			No recovery (wet core technique used)	
100	6.3		Granitic bedrock at ~100 ft-bgs	



PROJECT: Rheem Manufacturing Company		Log of Boring No. IW-62	
SITE LOCATION:	Milledgeville, GA	TOP OF CASING ELEVATION (ft): N/A	
DRILLING CONTRACTOR:	GSE Inc.	DATE STARTED: 11/7/2017	DATE FINISHED: 11/8/2017
DRILLING METHOD:	Rotosonic	TOTAL DEPTH (ft.): 95	SCREEN INTERVAL (ft.): See Below
DRILLING EQUIPMENT:	TSI 150CC	DEPTH TO WATER AT TIME OF BORING (ft.): NM	CASING (ft.): See Below
SAMPLING METHOD:	Sample Sleeves	BOREHOLE DIAMETER (In.): 6.25	WELL DIAMETER (In.): 2
LOGGED BY: Alex Testoff			

DEPTH (feet)	PID Reading	DESCRIPTION		WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
		Ground Surface Elevation (ft):	N/A	
0			Topsoil	<p>Flush mount well vault</p> <p>IW-62 constructed with a single 2-inch PVC well with two distinct screened intervals within one borehole</p> <p>IW-62 screened from 25-55 ft-bgs</p> <p>IW-62 screened from 65-95 ft-bgs</p>
5			Red, tan sandy clay (lean, stiff)	
10	20.2		Brown, tan sandy clay (lean, soft)	
15	12.8		Tan, white orange highly micaceous clay w/ coarse sand	
20	17.6		Brown, tan micaceous clay (soft, tan)	
25	1280		Gray, tan micaceous clay (fat, soft)	
30	440		Brown, tan sandy clay (fat, soft)	
35	4568		Tan, orange sandy clay (lean, soft)	
40	5051		Brown, tan micaceous sandy clay (lean, stiff)	
45	4800		Gray, white highly micaceous clay (lean, stiff)	
50	3767		Gray, tan sandy micaceous clay (lean, stiff)	
55			Gray sandy clay (fat, soft)	
60	1084		Gray, tan sandy PWR, mostly pulverized	
65	767		Tan, white PWR w/ clayey sand (coarse)	
70	804		No recovery (wet core technique used)	
75			Gray, white gneiss w/ pink feldspar	
80				
85				
90				
95				
100				
105				
110				
115				
120				
125				
130				
135				



PROJECT: Rheem Manufacturing Company	Log of Boring No. IW-63	
SITE LOCATION: Milledgeville, GA	TOP OF CASING ELEVATION (ft): N/A	
DRILLING CONTRACTOR: GSE Inc.	DATE STARTED: 11/8/2017	DATE FINISHED: 11/8/2017
DRILLING METHOD: Rotasonic	TOTAL DEPTH (ft.): 80	SCREEN INTERVAL (ft.): See Below
DRILLING EQUIPMENT: TSI 150CC	DEPTH TO WATER AT TIME OF BORING (ft.): NM	CASING (ft.): See Below
SAMPLING METHOD: Sample Sleeves	BOREHOLE DIAMETER (In.): 6.25	WELL DIAMETER (In.): 2
LOGGED BY: Alex Testoff		

DEPTH (feet)	PID Reading	DESCRIPTION		WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
		Ground Surface Elevation (ft): N/A		
0		Concrete		Flush mount well vault IW-63 constructed with a single 2-inch PVC well with two distinct screened intervals within one borehole IW-63 screened from 25-50 ft-bgs IW-63 screened from 60-80 ft-bgs
5		Red, tan clay (lean, stiff)		
10	15.6	Brown, tan micaceous clay (lean, soft)		
15	0	Tan, brown micaceous clay (lean, soft)		
20	0.4	Orange, tan micaceous clay (fat, soft)		
25	0.8	Brown micaceous clay (sat, soft)		
30				
35	6	Tan clayey sand (fine to medium)		
40				
45	8072	Tan, brown sandy PWR, mostly pulverized		
50	>15,000	Light tan sandy PWR		
55				
60	1084	Tan, pink sandy PWR, mostly pulverized		
65				
70	3557	No recovery (wet core technique used)		
75				
80		Gray, tan granitic gneiss		
85				
90				
95				
100				
105				
110				
115				
120				
125				
130				
135				



APPENDIX I
Laboratory Analytical Report



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

April 30, 2018

Justin Vickery
Environmental Planning Specialists, Inc.

400 Northridge Rd
Sandy Springs GA 30350

RE: Rheem

Dear Justin Vickery:

Order No: 1804H65

Analytical Environmental Services, Inc. received 94 samples on April 18, 2018 4:30 pm
for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated
Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the
analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical
Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective
07/01/17-06/30/18.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective
07/01/17-06/30/18 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.

-NELAP/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical
Materials, effective 07/01/17-06/30/18.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos,
Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal)
Direct Examination, effective until 11/01/19.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Chris Pafford
Project Manager



CHAIN OF CUSTODY

COMPANY: EPS Inc		ADDRESS: 400 Northridge Rd., Ste. 400 Sandy Springs, GA 30350			ANALYSIS REQUESTED										Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.		Number of Containers																																									
PHONE: 404 315 9113		EMAIL:			<table border="1"> <tr> <td>VOCs</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>Soil Moisture</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>										VOCs																						Soil Moisture																					REMARKS
VOCs																																																										
Soil Moisture																																																										
SAMPLED BY: Alex Testuff, Joe Terry		SIGNATURE: [Signature]			PRESERVATION (see codes)																																																					
#	SAMPLE ID	SAMPLED:		GRAB	COMPOSITE	MATRIX (see codes)											REMARKS	Number of Containers																																								
		DATE	TIME																																																							
1	18107-SCS-14-0.5	4/17/18	1015	X		So	X	X																																																		
2	18107-SCS-14-1.5		1020	X			X	X																																																		
3	18107-SCS-14-5		1025	X			X	X																																																		
4	18107-SCS-14-7		1030	X			X	X																																																		
5	18107-SCS-14-12		1035	X			X	X																																																		
6	18107-SCS-15-0.5		1055	X			X	X																																																		
7	18107-SCS-15-1.5		1100	X			X	X																																																		
8	18107-SCS-15-4		1105	X			X	X																																																		
9	18107-SCS-15-10		1110	X			X	X																																																		
10	18107-SCS-15-14		1115	X			X	X																																																		
11	18107-SCS-16-0.5		1125	X			X	X																																																		
12	18107-SCS-16-1.5		1130	X			X	X																																																		
13	18107-SCS-16-4		1135	X			X	X																																																		
14	18107-SCS-16-8	4/17/18	1150	X		So	X	X																																																		
RELINQUISHED BY: [Signature]		DATE/TIME: 4/17/18 1630		RECEIVED BY: MONWELL ALONZO		DATE/TIME: 4/18/18 4:30pm		PROJECT INFORMATION										RECEIPT																																								
1. [Signature]		2.		3.		PROJECT NAME: Rheem										Total # of Containers: 56																																										
3.						PROJECT #: [Blank]										Turnaround Time (TAT) Request																																										
						SITE ADDRESS: Milledgeville, GA										<input checked="" type="checkbox"/> Standard 5 Business Days <input type="checkbox"/> 2 Business Day Rush <input type="checkbox"/> Next Business Day Rush <input type="checkbox"/> Same-Day Rush (auth req.) <input type="checkbox"/> Other _____																																										
						SEND REPORT TO: jwickery@envplaning.com										STATE PROGRAM (if any): _____																																										
						INVOICE TO: (IF DIFFERENT FROM ABOVE)										E-mail? <input type="checkbox"/> Fax? <input type="checkbox"/>																																										
SPECIAL INSTRUCTIONS/COMMENTS:				SHIPMENT METHOD		QUOTE #: _____ PO#: _____										DATA PACKAGE: I <input type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/> IV <input type="checkbox"/>																																										
				OUT: / / VIA: client FedEx UPS US mail courier Greyhound																																																						
				IN: / / VIA: other: _____																																																						

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arrangements are made.

Matrix Codes: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water WW = Waste Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)
 Preservative Codes: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client



CHAIN OF CUSTODY

COMPANY: EPS		ADDRESS: 400 Northridge Road, Ste 400 Sandy Springs, GA 30350					ANALYSIS REQUESTED										Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.		Number of Containers	
PHONE: 404 315 9113		EMAIL:					PRESERVATION (see codes)										REMARKS			
SAMPLED BY: Alex Terloff, Joe Terry		SIGNATURE: <i>[Signature]</i>					VOCs Soil Moisture													
#	SAMPLE ID	DATE	TIME	GRAB	COMPOSITE	MATRIX (see codes)	PRESERVATION (see codes)										REMARKS			
1	18107-SCS-16-12	4/17/18	1155	X		So	X	X												
2	18107-SCS-17-0.5		1310	X			X	X												
3	18107-SCS-17-1.5		1315	X			X	X												
4	18107-SCS-17-4		1320	X			X	X												
5	18107-SCS-17-8		1325	X			X	X												
6	18107-SCS-17-13		1330	X			X	X												
7	18107-SCS-19-0.5		1335	X			X	X												
8	18107-SCS-19-1.5		1340	X			X	X												
9	18107-SCS-19-4		1345	X			X	X												
10	18107-SCS-19-8		1350	X			X	X												
11	18107-SCS-19-13		1355	X			X	X												
12	18107-SCS-18-0.5		1400	X			X	X												
13	18107-SCS-18-1.5		1405	X			X	X												
14	18107-SCS-18-4	4/17/18	1410	X		So	X	X												
RELINQUISHED BY: <i>[Signature]</i>		DATE/TIME: 4/17/18 1630		RECEIVED BY: <i>[Signature]</i>		DATE/TIME: 4/18/18 4:30pm		PROJECT INFORMATION										RECEIPT		
1.				1. Monique Alonzo				PROJECT NAME: Rheem										Total # of Containers: 56		
2.				2.				PROJECT #: _____										Turnaround Time (TAT) Request		
3.				3.				SITE ADDRESS: Milledgeville, GA										<input checked="" type="checkbox"/> Standard 5 Business Days <input type="checkbox"/> 2 Business Day Rush <input type="checkbox"/> Next Business Day Rush <input type="checkbox"/> Same-Day Rush (auth req.) <input type="checkbox"/> Other _____		
SPECIAL INSTRUCTIONS/COMMENTS:				SHIPMENT METHOD				INVOICE TO: (IF DIFFERENT FROM ABOVE)										STATE PROGRAM (if any): _____		
				OUT: / / VIA: IN: / / VIA: <input checked="" type="radio"/> client FedEx UPS US mail courier Greyhound other: _____				E-mail? <input type="checkbox"/> Fax? <input type="checkbox"/>										DATA PACKAGE: I <input type="radio"/> II <input type="radio"/> III <input type="radio"/> IV <input type="radio"/>		
Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arrangements are made.																				

Matrix Codes: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water WW = Waste Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)

Preservative Codes: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client



CHAIN OF CUSTODY

COMPANY: EPS Inc.		ADDRESS: 400 Northridge Rd., Ste 400 Sandy Springs, GA 30350			ANALYSIS REQUESTED						Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.		Number of Containers		
PHONE: 404 315 9113		EMAIL:			VOCs Soil Moisture	PRESERVATION (see codes)						REMARKS			
SAMPLED BY: <i>Alf Terry</i>		SIGNATURE: <i>Alf Terry</i>													
#	SAMPLE ID	SAMPLED:		GRAB	COMPOSITE	MATRIX (see codes)	PRESERVATION (see codes)						REMARKS		
		DATE	TIME												
1	18107-SCS-18-8	4/17/18	1415	X		So	X	X						4	
2	18107-SCS-18-13	4/17/18	1420	X		So	X	X						4	
3	18107-SCS-13-4	4/17/18	1445	X		So	X	X						4	
4	18107-SCS-13-8	4/17/18	1450	X		So	X	X						4	
5	18107-SCS-8-0.5		1505	X		So	X	X						4	
6	18107-SCS-8-1.5		1510	X		So	X	X						4	
7	18107-SCS-8-4		1515	X		So	X	X						4	
8	18107-SCS-8-8		1520	X		So	X	X						4	
9	18107-SCS-8-13		1525	X		So	X	X						4	
10	18107-SCS-3-0.5		1535	X		So	X	X						4	
11	18107-SCS-3-1.5		1540	X		So	X	X						4	
12	18107-SCS-3-4		1550	X		So	X	X						4	
13	18107-SCS-3-8		1555	X		So	X	X						4	
14	18107-SCS-3-13	4/17/18	1600	X		So	X	X						4	
RELINQUISHED BY: <i>Alf Terry</i>		DATE/TIME: 4/17/18 1630		RECEIVED BY: <i>Munroe Abouon</i>		DATE/TIME: 4/18/18 4:30pm		PROJECT INFORMATION						RECEIPT	
1.				1.				PROJECT NAME: Rheem						Total # of Containers: 50	
2.				2.				PROJECT #:						Turnaround Time (TAT) Request	
3.				3.				SITE ADDRESS: Milledgeville, GA						<input checked="" type="checkbox"/> Standard 5 Business Days <input type="checkbox"/> 2 Business Day Rush <input type="checkbox"/> Next Business Day Rush <input type="checkbox"/> Same-Day Rush (auth req.) <input type="checkbox"/> Other _____	
SPECIAL INSTRUCTIONS/COMMENTS:				SHIPMENT METHOD				SEND REPORT TO: <i>juicy@enuplanning.com</i>				INVOICE TO: (IF DIFFERENT FROM ABOVE)			
				OUT: / / VIA: IN: <u>client</u> / / VIA: client FedEx UPS US mail courier Greyhound other: _____				QUOTE #: _____ PO#: _____				STATE PROGRAM (if any): _____ E-mail? <input type="checkbox"/> Fax? <input type="checkbox"/> DATA PACKAGE: <input type="checkbox"/> I <input type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/> IV <input type="checkbox"/>			
Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arrangements are made.															

Matrix Codes: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water WW = Waste Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)

Preservative Codes: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None



CHAIN OF CUSTODY

COMPANY: <u>EPS Inc.</u>		ADDRESS: <u>400 Northridge Rd., Ste 400</u> <u>Sandy Springs, GA 30350</u>			ANALYSIS REQUESTED										Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.			Number of Containers			
PHONE: <u>404 315 9113</u>		EMAIL:			PRESERVATION (see codes)										REMARKS						
SAMPLED BY: <u>Alex Terrell Joe Terry</u>		SIGNATURE: <u>[Signature]</u>																			
#	SAMPLE ID	SAMPLED:		GRAB	COMPOSITE	MATRIX (see codes)											REMARKS				
		DATE	TIME																		
1	<u>18107-SCS-9-0.5</u>	<u>4/17/18</u>	<u>1615</u>	X		<u>SO</u>	X	X													
2	<u>18107-SCS-9-1.5</u>		<u>1620</u>	X			X	X													
3	<u>18107-SCS-9-4</u>		<u>1625</u>	X			X	X													
4	<u>18107-SCS-9-8</u>		<u>1630</u>	X			X	X													
5	<u>18107-SCS-9-13</u>		<u>1635</u>	X			X	X													
6	<u>18107-SCS-6-0.5</u>		<u>1650</u>	X			X	X													
7	<u>18107-SCS-6-1.5</u>		<u>1655</u>	X			X	X													
8	<u>18107-SCS-6-4</u>		<u>1700</u>	X			X	X													
9	<u>18107-SCS-6-8</u>	<u>↓</u>	<u>1705</u>	X			X	X													
10	<u>18107-SCS-6-13</u>	<u>4/17/18</u>	<u>1710</u>	X			X	X													
11	<u>18107-SCS-1-0.5</u>	<u>4/18/18</u>	<u>0755</u>	X			X	X													
12	<u>18107-SCS-1-1.5</u>	<u>↓</u>	<u>0800</u>	X			X	X													
13	<u>18107-SCS-1-4</u>	<u>↓</u>	<u>0805</u>	X			X	X													
14	<u>18107-SCS-1-8</u>	<u>4/18/18</u>	<u>0810</u>	X		<u>SO</u>	X	X													

RELINQUISHED BY: <u>[Signature]</u>		DATE/TIME: <u>4/18/18</u> <u>1630</u>	RECEIVED BY: <u>MONIQUE ALONSO</u>	DATE/TIME: <u>4/18/18</u> <u>4:30pm</u>	PROJECT INFORMATION			RECEIPT	
1.			1.		PROJECT NAME: <u>Rheem</u>	Total # of Containers <u>56</u>			
2.			2.		PROJECT #:	Turnaround Time (TAT) Request			
3.			3.		SITE ADDRESS: <u>Milledgeville, GA</u>	<input checked="" type="checkbox"/> Standard 5 Business Days <input type="checkbox"/> 2 Business Day Rush <input type="checkbox"/> Next Business Day Rush <input type="checkbox"/> Same-Day Rush (auth req.) <input type="checkbox"/> Other _____			
SPECIAL INSTRUCTIONS/COMMENTS:			SHIPMENT METHOD		SEND REPORT TO: <u>jvickery@envplanmg.com</u>	STATE PROGRAM (if any): _____			
			OUT: / / VIA:		INVOICE TO:	E-mail? <input type="checkbox"/> Fax? <input type="checkbox"/>			
			IN: / / VIA:		(IF DIFFERENT FROM ABOVE)	DATA PACKAGE: I <input type="radio"/> II <input type="radio"/> III <input type="radio"/> IV <input type="radio"/>			
			client FedEx UPS US mail courier Greyhound		QUOTE #:	PO#:			
			other: _____						

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CHAIN OF CUSTODY

COMPANY: EPS Inc.		ADDRESS: 400 Northridge Rd. Ste. 400 Sandy Springs, GA 30350		ANALYSIS REQUESTED						Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.		Number of Containers																																																																																																				
PHONE: 404 315 9113		EMAIL:		<div style="display: flex; flex-direction: column;"> <div style="margin-bottom: 5px;">VOCs</div> <div style="margin-bottom: 5px;">Soil Moisture</div> </div> <table border="1" style="width:100%; height: 100px; border-collapse: collapse;"> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>																																																																																																											REMARKS	
SAMPLED BY: Alex Testoff Joe Terry		SIGNATURE: <i>[Signature]</i>		PRESERVATION (see codes)																																																																																																												
#	SAMPLE ID	DATE	TIME	GRAB	COMPOSITE	MATRIX (see codes)																																																																																																										
1	18108-SCS-1-13	4/18/18		X		SO	X	X					56																																																																																																			
2	18108-SCS-4-0.5		0850	X			X	X					56																																																																																																			
3	18108-SCS-4-1		0855	X			X	X					56																																																																																																			
4	18108-SCS-4-4		0900	X			X	X					56																																																																																																			
5	18108-SCS-4-8		0910	X			X	X					56																																																																																																			
6	18108-SCS-4-13		0915	X			X	X					56																																																																																																			
7	18108-SCS-5-0.5		0925	X			X	X					56																																																																																																			
8	18108-SCS-5-1.5		0930	X			X	X					56																																																																																																			
9	18108-SCS-5-4		0935	X			X	X					56																																																																																																			
10	18108-SCS-5-8		0940	X			X	X					56																																																																																																			
11	18108-SCS-5-13		0945	X			X	X					56																																																																																																			
12	18108-SCS-2-0.5		1010	X			X	X					56																																																																																																			
13	18108-SCS-2-1.5		1015	X			X	X					56																																																																																																			
14	18108-SCS-2-4	4/18/18	1020	X		SO	X	X					56																																																																																																			
RELINQUISHED BY: <i>[Signature]</i>		DATE/TIME: 4/18/18 1630		RECEIVED BY: M. DAVENPORT		DATE/TIME: 4/18/18 4:30pm		PROJECT INFORMATION				RECEIPT																																																																																																				
1.				1.				PROJECT NAME: Rheem				Total # of Containers: 56																																																																																																				
2.				2.				PROJECT #: _____				Turnaround Time (TAT) Request																																																																																																				
3.				3.				SITE ADDRESS: Milledgeville, GA				<input checked="" type="checkbox"/> Standard 5 Business Days <input type="checkbox"/> 2 Business Day Rush <input type="checkbox"/> Next Business Day Rush <input type="checkbox"/> Same-Day Rush (auth req.) <input type="checkbox"/> Other _____																																																																																																				
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD		OUT: / / VIA:		IN: / / VIA:		SEND REPORT TO: jvickers@envplanning.com				STATE PROGRAM (if any): _____																																																																																																				
		client FedEx UPS US mail courier Greyhound		other: _____				INVOICE TO: (IF DIFFERENT FROM ABOVE)				E-mail? <input type="checkbox"/> Fax? <input type="checkbox"/>																																																																																																				
								QUOTE #: _____ PO#: _____				DATA PACKAGE: I <input type="radio"/> II <input type="radio"/> III <input type="radio"/> IV <input type="radio"/>																																																																																																				

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CHAIN OF CUSTODY

COMPANY: <u>Alex Testoff EPS Inc.</u>		ADDRESS: <u>400 Northridge Rd, Ste. 400</u> <u>Sandy Springs, GA 30350</u>			ANALYSIS REQUESTED										Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.		Number of Containers																																						
PHONE: <u>404 315 9113</u>		EMAIL:			<table border="1" style="width:100%; height:100%; border-collapse: collapse;"> <tr> <td style="width:5%; text-align:center;">VOCs</td> <td style="width:5%; text-align:center;">Soil Moisture</td> <td style="width:5%;"></td><td style="width:5%;"></td><td style="width:5%;"></td><td style="width:5%;"></td><td style="width:5%;"></td><td style="width:5%;"></td><td style="width:5%;"></td><td style="width:5%;"></td><td style="width:5%;"></td><td style="width:5%;"></td><td style="width:5%;"></td><td style="width:5%;"></td><td style="width:5%;"></td><td style="width:5%;"></td><td style="width:5%;"></td><td style="width:5%;"></td><td style="width:5%;"></td><td style="width:5%;"></td><td style="width:5%;"></td> </tr> <tr> <td colspan="20" style="text-align:center;">PRESERVATION (see codes)</td> </tr> </table>													VOCs	Soil Moisture																				PRESERVATION (see codes)																
VOCs	Soil Moisture																																																						
PRESERVATION (see codes)																																																							
SAMPLED BY: <u>Alex Testoff Joe Terry</u>		SIGNATURE: <u>Alex Testoff</u>			REMARKS																																																		
#	SAMPLE ID	SAMPLED:		GRAB	COMPOSITE	MATRIX (see codes)	PRESERVATION (see codes)										REMARKS	Number of Containers																																					
		DATE	TIME																																																				
1	<u>18108-SCS-2-8</u>	<u>4/18/18</u>	<u>1025</u>	<u>X</u>		<u>SO</u>	<u>X</u>	<u>X</u>																																															
2	<u>18108-SCS-2-13</u>		<u>1030</u>	<u>X</u>			<u>X</u>	<u>X</u>																																															
3	<u>18108-SCS-10-0.5</u>		<u>1045</u>	<u>X</u>			<u>X</u>	<u>X</u>																																															
4	<u>18108-SCS-10-1.5</u>		<u>1050</u>	<u>X</u>			<u>X</u>	<u>X</u>																																															
5	<u>18108-SCS-10-4</u>		<u>1055</u>	<u>X</u>			<u>X</u>	<u>X</u>																																															
6	<u>18108-SCS-10-8</u>		<u>1100</u>	<u>X</u>			<u>X</u>	<u>X</u>																																															
7	<u>18108-SCS-10-13</u>		<u>1115</u>	<u>X</u>			<u>X</u>	<u>X</u>																																															
8	<u>18108-SCS-7-0.5</u>		<u>1130</u>	<u>X</u>			<u>X</u>	<u>X</u>																																															
9	<u>18108-SCS-7-1.5</u>		<u>1135</u>	<u>X</u>			<u>X</u>	<u>X</u>																																															
10	<u>18108-SCS-7-4</u>		<u>1140</u>	<u>X</u>			<u>X</u>	<u>X</u>																																															
11	<u>18108-SCS-7-8</u>		<u>1145</u>	<u>X</u>			<u>X</u>	<u>X</u>																																															
12	<u>18108-SCS-7-13</u>		<u>1150</u>	<u>X</u>			<u>X</u>	<u>X</u>																																															
13	<u>18108-SCS-11-0.5</u>		<u>1315</u>	<u>X</u>			<u>X</u>	<u>X</u>																																															
14	<u>18108-SCS-11-1.5</u>	<u>4/18/18</u>	<u>1320</u>	<u>X</u>		<u>SO</u>	<u>X</u>	<u>X</u>																																															
RELINQUISHED BY: <u>Alex Testoff</u>		DATE/TIME: <u>4/18/18 1630</u>		RECEIVED BY: <u>MUNWILLE</u>		DATE/TIME: <u>4/18/18 4:30pm</u>		PROJECT INFORMATION										RECEIPT																																					
1.				1.				PROJECT NAME: <u>Rheem</u>										Total # of Containers: <u>56</u>																																					
2.				2.				PROJECT #: _____										Turnaround Time (TAT) Request																																					
3.				3.				SITE ADDRESS: <u>Milledgeville, GA</u>										<input checked="" type="checkbox"/> Standard 5 Business Days <input type="checkbox"/> 2 Business Day Rush <input type="checkbox"/> Next Business Day Rush <input type="checkbox"/> Same-Day Rush (auth req.) <input type="checkbox"/> Other _____																																					
SPECIAL INSTRUCTIONS/COMMENTS:				SHIPMENT METHOD				SEND REPORT TO: <u>juice@bepxplanning.com</u>										STATE PROGRAM (if any): _____																																					
				OUT: / / VIA:				INVOICE TO: _____										E-mail? <input type="checkbox"/> Fax? <input type="checkbox"/>																																					
				IN: <u>G</u> / / VIA:				(IF DIFFERENT FROM ABOVE)										DATA PACKAGE: I <input type="radio"/> II <input type="radio"/> III <input type="radio"/> IV <input type="radio"/>																																					
				client FedEx UPS US mail courier Greyhound				QUOTE #: _____ PO#: _____																																															
				other: _____																																																			

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CHAIN OF CUSTODY

COMPANY: EPS Inc		ADDRESS: 400 Northridge Rd, Ste 400 Sandy Springs, GA 30350					ANALYSIS REQUESTED VOCs (Soil) Soil Moisture VOCs (H₂O)										Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.		Number of Containers					
PHONE: 404 215 9412		EMAIL:					PRESERVATION (see codes)										REMARKS							
SAMPLED BY: Alex Testoff Joe Terry		SIGNATURE: <i>[Signature]</i>					SAMPLED:		GRAB	COMPOSITE	MATRIX (see codes)													
#	SAMPLE ID	DATE	TIME																					
1	18108-SCS-11-4	7/18/18	1325	X		So				X	X													4
2	18108-SCS-11-8		1330	X						X	X													4
3	18108-SCS-11-13		1335	X						X	X													4
4	18108-SCS-12-0.5		1350	X						X	X													4
5	18108-SCS-12-1.5		1355	X						X	X													4
6	18108-SCS-12-4		1400	X						X	X													4
7	18108-SCS-12-8		1405	X						X	X													4
8	18108-SCS-12-13		1410	X						X	X													4
9	18108-SCS-DUP	7/18/18	1200	X		So				X	X													4
10	Trip Blank					W							X											2
11																								
12																								
13																								
14																								
RELINQUISHED BY: <i>[Signature]</i>		DATE/TIME: 7/18/18 1630		RECEIVED BY: Monique Abrudan		DATE/TIME: 7/18/18 4:30pm		PROJECT INFORMATION										RECEIPT						
1.				2.		3.		PROJECT NAME: Bheem										Total # of Containers 88						
2.				3.				PROJECT #:										Turnaround Time (TAT) Request						
3.								SITE ADDRESS: Milledgeville, GA										<input checked="" type="checkbox"/> Standard 5 Business Days <input type="checkbox"/> 2 Business Day Rush <input type="checkbox"/> Next Business Day Rush <input type="checkbox"/> Same-Day Rush (auth req.) <input type="checkbox"/> Other _____						
SPECIAL INSTRUCTIONS/COMMENTS:				SHIPMENT METHOD				SEND REPORT TO: juickery@envplanning.com										STATE PROGRAM (if any): _____						
				OUT: / /		VIA:		INVOICE TO:										E-mail? <input type="checkbox"/> Fax? <input type="checkbox"/>						
				IN: / /		VIA:		(IF DIFFERENT FROM ABOVE)										DATA PACKAGE: I <input type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/> IV <input type="checkbox"/>						
				client FedEx UPS US mail courier Greyhound		other: _____		QUOTE #:										PO#:						

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Client: Environmental Planning Specialists, Inc.
Project: Rheem
Lab ID: 1804H65

Case Narrative

Volatile Organic Compounds Analysis by Method 8260B:

Due to sample matrix, sample 1804H65-078A required dilution during preparation and/or analysis resulting in elevated reporting limits. Sample was ran twice and poorly purged both times.

cis-1,2-Dichloroethene value for sample 1804H65-079A is "E" qualified indicating an estimated value over linear calibration range. Sample was diluted and reanalyzed using the supplied methanol preserved sample at the minimum dilution allowed resulting in analytes being below reporting limits.

Trichloroethene value for sample 1804H65-080A is "E" qualified indicating an estimated value over linear calibration range. Sample was diluted and reanalyzed using the supplied methanol preserved sample at the minimum dilution allowed resulting in analytes being below reporting limits.

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-14-0.5
Project Name: Rheem	Collection Date: 4/17/2018 10:15:00 AM
Lab ID: 1804H65-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	3.3		ug/Kg-dry	259619	1	04/22/2018 19:47	AR
1,1,2,2-Tetrachloroethane	BRL	3.3		ug/Kg-dry	259619	1	04/22/2018 19:47	AR
1,1,2-Trichloroethane	BRL	3.3		ug/Kg-dry	259619	1	04/22/2018 19:47	AR
1,1-Dichloroethane	BRL	3.3		ug/Kg-dry	259619	1	04/22/2018 19:47	AR
1,1-Dichloroethene	BRL	3.3		ug/Kg-dry	259619	1	04/22/2018 19:47	AR
1,2,4-Trichlorobenzene	BRL	3.3		ug/Kg-dry	259619	1	04/22/2018 19:47	AR
1,2-Dibromo-3-chloropropane	BRL	3.3		ug/Kg-dry	259619	1	04/22/2018 19:47	AR
1,2-Dibromoethane	BRL	3.3		ug/Kg-dry	259619	1	04/22/2018 19:47	AR
1,2-Dichlorobenzene	BRL	3.3		ug/Kg-dry	259619	1	04/22/2018 19:47	AR
1,2-Dichloroethane	BRL	3.3		ug/Kg-dry	259619	1	04/22/2018 19:47	AR
1,2-Dichloropropane	BRL	3.3		ug/Kg-dry	259619	1	04/22/2018 19:47	AR
1,3-Dichlorobenzene	BRL	3.3		ug/Kg-dry	259619	1	04/22/2018 19:47	AR
1,4-Dichlorobenzene	BRL	3.3		ug/Kg-dry	259619	1	04/22/2018 19:47	AR
2-Butanone	BRL	33		ug/Kg-dry	259619	1	04/22/2018 19:47	AR
2-Hexanone	BRL	6.6		ug/Kg-dry	259619	1	04/22/2018 19:47	AR
4-Methyl-2-pentanone	BRL	6.6		ug/Kg-dry	259619	1	04/22/2018 19:47	AR
Acetone	BRL	66		ug/Kg-dry	259619	1	04/22/2018 19:47	AR
Benzene	BRL	3.3		ug/Kg-dry	259619	1	04/22/2018 19:47	AR
Bromodichloromethane	BRL	3.3		ug/Kg-dry	259619	1	04/22/2018 19:47	AR
Bromoform	BRL	3.3		ug/Kg-dry	259619	1	04/22/2018 19:47	AR
Bromomethane	BRL	3.3		ug/Kg-dry	259619	1	04/22/2018 19:47	AR
Carbon disulfide	BRL	6.6		ug/Kg-dry	259619	1	04/22/2018 19:47	AR
Carbon tetrachloride	BRL	3.3		ug/Kg-dry	259619	1	04/22/2018 19:47	AR
Chlorobenzene	BRL	3.3		ug/Kg-dry	259619	1	04/22/2018 19:47	AR
Chloroethane	BRL	6.6		ug/Kg-dry	259619	1	04/22/2018 19:47	AR
Chloroform	BRL	3.3		ug/Kg-dry	259619	1	04/22/2018 19:47	AR
Chloromethane	BRL	6.6		ug/Kg-dry	259619	1	04/22/2018 19:47	AR
cis-1,2-Dichloroethene	BRL	3.3		ug/Kg-dry	259619	1	04/22/2018 19:47	AR
cis-1,3-Dichloropropene	BRL	3.3		ug/Kg-dry	259619	1	04/22/2018 19:47	AR
Cyclohexane	BRL	3.3		ug/Kg-dry	259619	1	04/22/2018 19:47	AR
Dibromochloromethane	BRL	3.3		ug/Kg-dry	259619	1	04/22/2018 19:47	AR
Dichlorodifluoromethane	BRL	6.6		ug/Kg-dry	259619	1	04/22/2018 19:47	AR
Ethylbenzene	BRL	3.3		ug/Kg-dry	259619	1	04/22/2018 19:47	AR
Freon-113	BRL	6.6		ug/Kg-dry	259619	1	04/22/2018 19:47	AR
Isopropylbenzene	BRL	3.3		ug/Kg-dry	259619	1	04/22/2018 19:47	AR
m,p-Xylene	BRL	3.3		ug/Kg-dry	259619	1	04/22/2018 19:47	AR
Methyl acetate	BRL	3.3		ug/Kg-dry	259619	1	04/22/2018 19:47	AR
Methyl tert-butyl ether	BRL	3.3		ug/Kg-dry	259619	1	04/22/2018 19:47	AR
Methylcyclohexane	BRL	3.3		ug/Kg-dry	259619	1	04/22/2018 19:47	AR
Methylene chloride	BRL	13		ug/Kg-dry	259619	1	04/22/2018 19:47	AR
o-Xylene	BRL	3.3		ug/Kg-dry	259619	1	04/22/2018 19:47	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-14-0.5
Project Name: Rheem	Collection Date: 4/17/2018 10:15:00 AM
Lab ID: 1804H65-001	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5035)			
Styrene	BRL	3.3		ug/Kg-dry	259619	1	04/22/2018 19:47	AR
Tetrachloroethene	BRL	3.3		ug/Kg-dry	259619	1	04/22/2018 19:47	AR
Toluene	BRL	3.3		ug/Kg-dry	259619	1	04/22/2018 19:47	AR
trans-1,2-Dichloroethene	BRL	3.3		ug/Kg-dry	259619	1	04/22/2018 19:47	AR
trans-1,3-Dichloropropene	BRL	3.3		ug/Kg-dry	259619	1	04/22/2018 19:47	AR
Trichloroethene	34	3.3		ug/Kg-dry	259619	1	04/22/2018 19:47	AR
Trichlorofluoromethane	BRL	3.3		ug/Kg-dry	259619	1	04/22/2018 19:47	AR
Vinyl chloride	BRL	6.6		ug/Kg-dry	259619	1	04/22/2018 19:47	AR
Surr: 4-Bromofluorobenzene	97.4	65-133		%REC	259619	1	04/22/2018 19:47	AR
Surr: Dibromofluoromethane	133	75.8-119	S	%REC	259619	1	04/22/2018 19:47	AR
Surr: Toluene-d8	99.1	78.3-120		%REC	259619	1	04/22/2018 19:47	AR
PERCENT MOISTURE D2216								
Percent Moisture	19.9	0		wt%	R368387	1	04/20/2018 17:00	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-14-1.5
Project Name: Rheem	Collection Date: 4/17/2018 10:20:00 AM
Lab ID: 1804H65-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 10:20	AR
1,1,2,2-Tetrachloroethane	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 10:20	AR
1,1,2-Trichloroethane	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 10:20	AR
1,1-Dichloroethane	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 10:20	AR
1,1-Dichloroethene	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 10:20	AR
1,2,4-Trichlorobenzene	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 10:20	AR
1,2-Dibromo-3-chloropropane	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 10:20	AR
1,2-Dibromoethane	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 10:20	AR
1,2-Dichlorobenzene	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 10:20	AR
1,2-Dichloroethane	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 10:20	AR
1,2-Dichloropropane	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 10:20	AR
1,3-Dichlorobenzene	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 10:20	AR
1,4-Dichlorobenzene	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 10:20	AR
2-Butanone	BRL	37		ug/Kg-dry	259681	1	04/23/2018 10:20	AR
2-Hexanone	BRL	7.5		ug/Kg-dry	259681	1	04/23/2018 10:20	AR
4-Methyl-2-pentanone	BRL	7.5		ug/Kg-dry	259681	1	04/23/2018 10:20	AR
Acetone	BRL	75		ug/Kg-dry	259681	1	04/23/2018 10:20	AR
Benzene	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 10:20	AR
Bromodichloromethane	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 10:20	AR
Bromoform	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 10:20	AR
Bromomethane	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 10:20	AR
Carbon disulfide	BRL	7.5		ug/Kg-dry	259681	1	04/23/2018 10:20	AR
Carbon tetrachloride	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 10:20	AR
Chlorobenzene	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 10:20	AR
Chloroethane	BRL	7.5		ug/Kg-dry	259681	1	04/23/2018 10:20	AR
Chloroform	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 10:20	AR
Chloromethane	BRL	7.5		ug/Kg-dry	259681	1	04/23/2018 10:20	AR
cis-1,2-Dichloroethene	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 10:20	AR
cis-1,3-Dichloropropene	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 10:20	AR
Cyclohexane	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 10:20	AR
Dibromochloromethane	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 10:20	AR
Dichlorodifluoromethane	BRL	7.5		ug/Kg-dry	259681	1	04/23/2018 10:20	AR
Ethylbenzene	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 10:20	AR
Freon-113	BRL	7.5		ug/Kg-dry	259681	1	04/23/2018 10:20	AR
Isopropylbenzene	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 10:20	AR
m,p-Xylene	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 10:20	AR
Methyl acetate	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 10:20	AR
Methyl tert-butyl ether	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 10:20	AR
Methylcyclohexane	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 10:20	AR
Methylene chloride	BRL	15		ug/Kg-dry	259681	1	04/23/2018 10:20	AR
o-Xylene	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 10:20	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-14-1.5
Project Name: Rheem	Collection Date: 4/17/2018 10:20:00 AM
Lab ID: 1804H65-002	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B			(SW5035)					
Styrene	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 10:20	AR
Tetrachloroethene	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 10:20	AR
Toluene	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 10:20	AR
trans-1,2-Dichloroethene	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 10:20	AR
trans-1,3-Dichloropropene	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 10:20	AR
Trichloroethene	50	3.7		ug/Kg-dry	259681	1	04/23/2018 10:20	AR
Trichlorofluoromethane	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 10:20	AR
Vinyl chloride	BRL	7.5		ug/Kg-dry	259681	1	04/23/2018 10:20	AR
Surr: 4-Bromofluorobenzene	99.3	65-133		%REC	259681	1	04/23/2018 10:20	AR
Surr: Dibromofluoromethane	88.4	75.8-119		%REC	259681	1	04/23/2018 10:20	AR
Surr: Toluene-d8	100	78.3-120		%REC	259681	1	04/23/2018 10:20	AR
PERCENT MOISTURE D2216								
Percent Moisture	21.7	0		wt%	R368387	1	04/20/2018 17:00	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-14-5
Project Name: Rheem	Collection Date: 4/17/2018 10:25:00 AM
Lab ID: 1804H65-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	3.4		ug/Kg-dry	259681	1	04/23/2018 11:34	AR
1,1,2,2-Tetrachloroethane	BRL	3.4		ug/Kg-dry	259681	1	04/23/2018 11:34	AR
1,1,2-Trichloroethane	BRL	3.4		ug/Kg-dry	259681	1	04/23/2018 11:34	AR
1,1-Dichloroethane	BRL	3.4		ug/Kg-dry	259681	1	04/23/2018 11:34	AR
1,1-Dichloroethene	BRL	3.4		ug/Kg-dry	259681	1	04/23/2018 11:34	AR
1,2,4-Trichlorobenzene	BRL	3.4		ug/Kg-dry	259681	1	04/23/2018 11:34	AR
1,2-Dibromo-3-chloropropane	BRL	3.4		ug/Kg-dry	259681	1	04/23/2018 11:34	AR
1,2-Dibromoethane	BRL	3.4		ug/Kg-dry	259681	1	04/23/2018 11:34	AR
1,2-Dichlorobenzene	BRL	3.4		ug/Kg-dry	259681	1	04/23/2018 11:34	AR
1,2-Dichloroethane	BRL	3.4		ug/Kg-dry	259681	1	04/23/2018 11:34	AR
1,2-Dichloropropane	BRL	3.4		ug/Kg-dry	259681	1	04/23/2018 11:34	AR
1,3-Dichlorobenzene	BRL	3.4		ug/Kg-dry	259681	1	04/23/2018 11:34	AR
1,4-Dichlorobenzene	BRL	3.4		ug/Kg-dry	259681	1	04/23/2018 11:34	AR
2-Butanone	BRL	34		ug/Kg-dry	259681	1	04/23/2018 11:34	AR
2-Hexanone	BRL	6.9		ug/Kg-dry	259681	1	04/23/2018 11:34	AR
4-Methyl-2-pentanone	BRL	6.9		ug/Kg-dry	259681	1	04/23/2018 11:34	AR
Acetone	BRL	69		ug/Kg-dry	259681	1	04/23/2018 11:34	AR
Benzene	BRL	3.4		ug/Kg-dry	259681	1	04/23/2018 11:34	AR
Bromodichloromethane	BRL	3.4		ug/Kg-dry	259681	1	04/23/2018 11:34	AR
Bromoform	BRL	3.4		ug/Kg-dry	259681	1	04/23/2018 11:34	AR
Bromomethane	BRL	3.4		ug/Kg-dry	259681	1	04/23/2018 11:34	AR
Carbon disulfide	BRL	6.9		ug/Kg-dry	259681	1	04/23/2018 11:34	AR
Carbon tetrachloride	BRL	3.4		ug/Kg-dry	259681	1	04/23/2018 11:34	AR
Chlorobenzene	BRL	3.4		ug/Kg-dry	259681	1	04/23/2018 11:34	AR
Chloroethane	BRL	6.9		ug/Kg-dry	259681	1	04/23/2018 11:34	AR
Chloroform	BRL	3.4		ug/Kg-dry	259681	1	04/23/2018 11:34	AR
Chloromethane	BRL	6.9		ug/Kg-dry	259681	1	04/23/2018 11:34	AR
cis-1,2-Dichloroethene	BRL	3.4		ug/Kg-dry	259681	1	04/23/2018 11:34	AR
cis-1,3-Dichloropropene	BRL	3.4		ug/Kg-dry	259681	1	04/23/2018 11:34	AR
Cyclohexane	BRL	3.4		ug/Kg-dry	259681	1	04/23/2018 11:34	AR
Dibromochloromethane	BRL	3.4		ug/Kg-dry	259681	1	04/23/2018 11:34	AR
Dichlorodifluoromethane	BRL	6.9		ug/Kg-dry	259681	1	04/23/2018 11:34	AR
Ethylbenzene	BRL	3.4		ug/Kg-dry	259681	1	04/23/2018 11:34	AR
Freon-113	BRL	6.9		ug/Kg-dry	259681	1	04/23/2018 11:34	AR
Isopropylbenzene	BRL	3.4		ug/Kg-dry	259681	1	04/23/2018 11:34	AR
m,p-Xylene	BRL	3.4		ug/Kg-dry	259681	1	04/23/2018 11:34	AR
Methyl acetate	BRL	3.4		ug/Kg-dry	259681	1	04/23/2018 11:34	AR
Methyl tert-butyl ether	BRL	3.4		ug/Kg-dry	259681	1	04/23/2018 11:34	AR
Methylcyclohexane	BRL	3.4		ug/Kg-dry	259681	1	04/23/2018 11:34	AR
Methylene chloride	BRL	14		ug/Kg-dry	259681	1	04/23/2018 11:34	AR
o-Xylene	BRL	3.4		ug/Kg-dry	259681	1	04/23/2018 11:34	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-14-5
Project Name: Rheem	Collection Date: 4/17/2018 10:25:00 AM
Lab ID: 1804H65-003	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5035)			
Styrene	BRL	3.4		ug/Kg-dry	259681	1	04/23/2018 11:34	AR
Tetrachloroethene	BRL	3.4		ug/Kg-dry	259681	1	04/23/2018 11:34	AR
Toluene	BRL	3.4		ug/Kg-dry	259681	1	04/23/2018 11:34	AR
trans-1,2-Dichloroethene	BRL	3.4		ug/Kg-dry	259681	1	04/23/2018 11:34	AR
trans-1,3-Dichloropropene	BRL	3.4		ug/Kg-dry	259681	1	04/23/2018 11:34	AR
Trichloroethene	BRL	3.4		ug/Kg-dry	259681	1	04/23/2018 11:34	AR
Trichlorofluoromethane	BRL	3.4		ug/Kg-dry	259681	1	04/23/2018 11:34	AR
Vinyl chloride	BRL	6.9		ug/Kg-dry	259681	1	04/23/2018 11:34	AR
Surr: 4-Bromofluorobenzene	98.1	65-133		%REC	259681	1	04/23/2018 11:34	AR
Surr: Dibromofluoromethane	90.2	75.8-119		%REC	259681	1	04/23/2018 11:34	AR
Surr: Toluene-d8	100	78.3-120		%REC	259681	1	04/23/2018 11:34	AR
PERCENT MOISTURE D2216								
Percent Moisture	25.8	0		wt%	R368387	1	04/20/2018 17:00	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-14-7
Project Name: Rheem	Collection Date: 4/17/2018 10:30:00 AM
Lab ID: 1804H65-004	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	3.9		ug/Kg-dry	259681	1	04/23/2018 12:48	AR
1,1,2,2-Tetrachloroethane	BRL	3.9		ug/Kg-dry	259681	1	04/23/2018 12:48	AR
1,1,2-Trichloroethane	BRL	3.9		ug/Kg-dry	259681	1	04/23/2018 12:48	AR
1,1-Dichloroethane	BRL	3.9		ug/Kg-dry	259681	1	04/23/2018 12:48	AR
1,1-Dichloroethene	BRL	3.9		ug/Kg-dry	259681	1	04/23/2018 12:48	AR
1,2,4-Trichlorobenzene	BRL	3.9		ug/Kg-dry	259681	1	04/23/2018 12:48	AR
1,2-Dibromo-3-chloropropane	BRL	3.9		ug/Kg-dry	259681	1	04/23/2018 12:48	AR
1,2-Dibromoethane	BRL	3.9		ug/Kg-dry	259681	1	04/23/2018 12:48	AR
1,2-Dichlorobenzene	BRL	3.9		ug/Kg-dry	259681	1	04/23/2018 12:48	AR
1,2-Dichloroethane	BRL	3.9		ug/Kg-dry	259681	1	04/23/2018 12:48	AR
1,2-Dichloropropane	BRL	3.9		ug/Kg-dry	259681	1	04/23/2018 12:48	AR
1,3-Dichlorobenzene	BRL	3.9		ug/Kg-dry	259681	1	04/23/2018 12:48	AR
1,4-Dichlorobenzene	BRL	3.9		ug/Kg-dry	259681	1	04/23/2018 12:48	AR
2-Butanone	BRL	39		ug/Kg-dry	259681	1	04/23/2018 12:48	AR
2-Hexanone	BRL	7.8		ug/Kg-dry	259681	1	04/23/2018 12:48	AR
4-Methyl-2-pentanone	BRL	7.8		ug/Kg-dry	259681	1	04/23/2018 12:48	AR
Acetone	BRL	78		ug/Kg-dry	259681	1	04/23/2018 12:48	AR
Benzene	BRL	3.9		ug/Kg-dry	259681	1	04/23/2018 12:48	AR
Bromodichloromethane	BRL	3.9		ug/Kg-dry	259681	1	04/23/2018 12:48	AR
Bromoform	BRL	3.9		ug/Kg-dry	259681	1	04/23/2018 12:48	AR
Bromomethane	BRL	3.9		ug/Kg-dry	259681	1	04/23/2018 12:48	AR
Carbon disulfide	BRL	7.8		ug/Kg-dry	259681	1	04/23/2018 12:48	AR
Carbon tetrachloride	BRL	3.9		ug/Kg-dry	259681	1	04/23/2018 12:48	AR
Chlorobenzene	BRL	3.9		ug/Kg-dry	259681	1	04/23/2018 12:48	AR
Chloroethane	BRL	7.8		ug/Kg-dry	259681	1	04/23/2018 12:48	AR
Chloroform	BRL	3.9		ug/Kg-dry	259681	1	04/23/2018 12:48	AR
Chloromethane	BRL	7.8		ug/Kg-dry	259681	1	04/23/2018 12:48	AR
cis-1,2-Dichloroethene	BRL	3.9		ug/Kg-dry	259681	1	04/23/2018 12:48	AR
cis-1,3-Dichloropropene	BRL	3.9		ug/Kg-dry	259681	1	04/23/2018 12:48	AR
Cyclohexane	BRL	3.9		ug/Kg-dry	259681	1	04/23/2018 12:48	AR
Dibromochloromethane	BRL	3.9		ug/Kg-dry	259681	1	04/23/2018 12:48	AR
Dichlorodifluoromethane	BRL	7.8		ug/Kg-dry	259681	1	04/23/2018 12:48	AR
Ethylbenzene	BRL	3.9		ug/Kg-dry	259681	1	04/23/2018 12:48	AR
Freon-113	BRL	7.8		ug/Kg-dry	259681	1	04/23/2018 12:48	AR
Isopropylbenzene	BRL	3.9		ug/Kg-dry	259681	1	04/23/2018 12:48	AR
m,p-Xylene	BRL	3.9		ug/Kg-dry	259681	1	04/23/2018 12:48	AR
Methyl acetate	BRL	3.9		ug/Kg-dry	259681	1	04/23/2018 12:48	AR
Methyl tert-butyl ether	BRL	3.9		ug/Kg-dry	259681	1	04/23/2018 12:48	AR
Methylcyclohexane	BRL	3.9		ug/Kg-dry	259681	1	04/23/2018 12:48	AR
Methylene chloride	BRL	16		ug/Kg-dry	259681	1	04/23/2018 12:48	AR
o-Xylene	BRL	3.9		ug/Kg-dry	259681	1	04/23/2018 12:48	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-14-7
Project Name: Rheem	Collection Date: 4/17/2018 10:30:00 AM
Lab ID: 1804H65-004	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5035)			
Styrene	BRL	3.9		ug/Kg-dry	259681	1	04/23/2018 12:48	AR
Tetrachloroethene	BRL	3.9		ug/Kg-dry	259681	1	04/23/2018 12:48	AR
Toluene	BRL	3.9		ug/Kg-dry	259681	1	04/23/2018 12:48	AR
trans-1,2-Dichloroethene	BRL	3.9		ug/Kg-dry	259681	1	04/23/2018 12:48	AR
trans-1,3-Dichloropropene	BRL	3.9		ug/Kg-dry	259681	1	04/23/2018 12:48	AR
Trichloroethene	BRL	3.9		ug/Kg-dry	259681	1	04/23/2018 12:48	AR
Trichlorofluoromethane	BRL	3.9		ug/Kg-dry	259681	1	04/23/2018 12:48	AR
Vinyl chloride	BRL	7.8		ug/Kg-dry	259681	1	04/23/2018 12:48	AR
Surr: 4-Bromofluorobenzene	96.2	65-133		%REC	259681	1	04/23/2018 12:48	AR
Surr: Dibromofluoromethane	91.3	75.8-119		%REC	259681	1	04/23/2018 12:48	AR
Surr: Toluene-d8	99.6	78.3-120		%REC	259681	1	04/23/2018 12:48	AR
PERCENT MOISTURE D2216								
Percent Moisture	24.0	0		wt%	R368387	1	04/20/2018 17:00	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-14-12
Project Name: Rheem	Collection Date: 4/17/2018 10:35:00 AM
Lab ID: 1804H65-005	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	4.1		ug/Kg-dry	259681	1	04/23/2018 13:13	AR
1,1,2,2-Tetrachloroethane	BRL	4.1		ug/Kg-dry	259681	1	04/23/2018 13:13	AR
1,1,2-Trichloroethane	BRL	4.1		ug/Kg-dry	259681	1	04/23/2018 13:13	AR
1,1-Dichloroethane	BRL	4.1		ug/Kg-dry	259681	1	04/23/2018 13:13	AR
1,1-Dichloroethene	BRL	4.1		ug/Kg-dry	259681	1	04/23/2018 13:13	AR
1,2,4-Trichlorobenzene	BRL	4.1		ug/Kg-dry	259681	1	04/23/2018 13:13	AR
1,2-Dibromo-3-chloropropane	BRL	4.1		ug/Kg-dry	259681	1	04/23/2018 13:13	AR
1,2-Dibromoethane	BRL	4.1		ug/Kg-dry	259681	1	04/23/2018 13:13	AR
1,2-Dichlorobenzene	BRL	4.1		ug/Kg-dry	259681	1	04/23/2018 13:13	AR
1,2-Dichloroethane	BRL	4.1		ug/Kg-dry	259681	1	04/23/2018 13:13	AR
1,2-Dichloropropane	BRL	4.1		ug/Kg-dry	259681	1	04/23/2018 13:13	AR
1,3-Dichlorobenzene	BRL	4.1		ug/Kg-dry	259681	1	04/23/2018 13:13	AR
1,4-Dichlorobenzene	BRL	4.1		ug/Kg-dry	259681	1	04/23/2018 13:13	AR
2-Butanone	BRL	41		ug/Kg-dry	259681	1	04/23/2018 13:13	AR
2-Hexanone	BRL	8.3		ug/Kg-dry	259681	1	04/23/2018 13:13	AR
4-Methyl-2-pentanone	BRL	8.3		ug/Kg-dry	259681	1	04/23/2018 13:13	AR
Acetone	BRL	83		ug/Kg-dry	259681	1	04/23/2018 13:13	AR
Benzene	BRL	4.1		ug/Kg-dry	259681	1	04/23/2018 13:13	AR
Bromodichloromethane	BRL	4.1		ug/Kg-dry	259681	1	04/23/2018 13:13	AR
Bromoform	BRL	4.1		ug/Kg-dry	259681	1	04/23/2018 13:13	AR
Bromomethane	BRL	4.1		ug/Kg-dry	259681	1	04/23/2018 13:13	AR
Carbon disulfide	BRL	8.3		ug/Kg-dry	259681	1	04/23/2018 13:13	AR
Carbon tetrachloride	BRL	4.1		ug/Kg-dry	259681	1	04/23/2018 13:13	AR
Chlorobenzene	BRL	4.1		ug/Kg-dry	259681	1	04/23/2018 13:13	AR
Chloroethane	BRL	8.3		ug/Kg-dry	259681	1	04/23/2018 13:13	AR
Chloroform	BRL	4.1		ug/Kg-dry	259681	1	04/23/2018 13:13	AR
Chloromethane	BRL	8.3		ug/Kg-dry	259681	1	04/23/2018 13:13	AR
cis-1,2-Dichloroethene	BRL	4.1		ug/Kg-dry	259681	1	04/23/2018 13:13	AR
cis-1,3-Dichloropropene	BRL	4.1		ug/Kg-dry	259681	1	04/23/2018 13:13	AR
Cyclohexane	BRL	4.1		ug/Kg-dry	259681	1	04/23/2018 13:13	AR
Dibromochloromethane	BRL	4.1		ug/Kg-dry	259681	1	04/23/2018 13:13	AR
Dichlorodifluoromethane	BRL	8.3		ug/Kg-dry	259681	1	04/23/2018 13:13	AR
Ethylbenzene	BRL	4.1		ug/Kg-dry	259681	1	04/23/2018 13:13	AR
Freon-113	BRL	8.3		ug/Kg-dry	259681	1	04/23/2018 13:13	AR
Isopropylbenzene	BRL	4.1		ug/Kg-dry	259681	1	04/23/2018 13:13	AR
m,p-Xylene	BRL	4.1		ug/Kg-dry	259681	1	04/23/2018 13:13	AR
Methyl acetate	BRL	4.1		ug/Kg-dry	259681	1	04/23/2018 13:13	AR
Methyl tert-butyl ether	BRL	4.1		ug/Kg-dry	259681	1	04/23/2018 13:13	AR
Methylcyclohexane	BRL	4.1		ug/Kg-dry	259681	1	04/23/2018 13:13	AR
Methylene chloride	BRL	17		ug/Kg-dry	259681	1	04/23/2018 13:13	AR
o-Xylene	BRL	4.1		ug/Kg-dry	259681	1	04/23/2018 13:13	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-14-12
Project Name: Rheem	Collection Date: 4/17/2018 10:35:00 AM
Lab ID: 1804H65-005	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5035)			
Styrene	BRL	4.1		ug/Kg-dry	259681	1	04/23/2018 13:13	AR
Tetrachloroethene	BRL	4.1		ug/Kg-dry	259681	1	04/23/2018 13:13	AR
Toluene	BRL	4.1		ug/Kg-dry	259681	1	04/23/2018 13:13	AR
trans-1,2-Dichloroethene	BRL	4.1		ug/Kg-dry	259681	1	04/23/2018 13:13	AR
trans-1,3-Dichloropropene	BRL	4.1		ug/Kg-dry	259681	1	04/23/2018 13:13	AR
Trichloroethene	7.8	4.1		ug/Kg-dry	259681	1	04/23/2018 13:13	AR
Trichlorofluoromethane	BRL	4.1		ug/Kg-dry	259681	1	04/23/2018 13:13	AR
Vinyl chloride	BRL	8.3		ug/Kg-dry	259681	1	04/23/2018 13:13	AR
Surr: 4-Bromofluorobenzene	98	65-133		%REC	259681	1	04/23/2018 13:13	AR
Surr: Dibromofluoromethane	91.5	75.8-119		%REC	259681	1	04/23/2018 13:13	AR
Surr: Toluene-d8	101	78.3-120		%REC	259681	1	04/23/2018 13:13	AR
PERCENT MOISTURE D2216								
Percent Moisture	37.7	0		wt%	R368387	1	04/20/2018 17:00	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-15-0.5
Project Name: Rheem	Collection Date: 4/17/2018 10:55:00 AM
Lab ID: 1804H65-006	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	4.4		ug/Kg-dry	259681	1	04/23/2018 13:38	AR
1,1,2,2-Tetrachloroethane	BRL	4.4		ug/Kg-dry	259681	1	04/23/2018 13:38	AR
1,1,2-Trichloroethane	BRL	4.4		ug/Kg-dry	259681	1	04/23/2018 13:38	AR
1,1-Dichloroethane	BRL	4.4		ug/Kg-dry	259681	1	04/23/2018 13:38	AR
1,1-Dichloroethene	BRL	4.4		ug/Kg-dry	259681	1	04/23/2018 13:38	AR
1,2,4-Trichlorobenzene	BRL	4.4		ug/Kg-dry	259681	1	04/23/2018 13:38	AR
1,2-Dibromo-3-chloropropane	BRL	4.4		ug/Kg-dry	259681	1	04/23/2018 13:38	AR
1,2-Dibromoethane	BRL	4.4		ug/Kg-dry	259681	1	04/23/2018 13:38	AR
1,2-Dichlorobenzene	BRL	4.4		ug/Kg-dry	259681	1	04/23/2018 13:38	AR
1,2-Dichloroethane	BRL	4.4		ug/Kg-dry	259681	1	04/23/2018 13:38	AR
1,2-Dichloropropane	BRL	4.4		ug/Kg-dry	259681	1	04/23/2018 13:38	AR
1,3-Dichlorobenzene	BRL	4.4		ug/Kg-dry	259681	1	04/23/2018 13:38	AR
1,4-Dichlorobenzene	BRL	4.4		ug/Kg-dry	259681	1	04/23/2018 13:38	AR
2-Butanone	BRL	44		ug/Kg-dry	259681	1	04/23/2018 13:38	AR
2-Hexanone	BRL	8.7		ug/Kg-dry	259681	1	04/23/2018 13:38	AR
4-Methyl-2-pentanone	BRL	8.7		ug/Kg-dry	259681	1	04/23/2018 13:38	AR
Acetone	BRL	87		ug/Kg-dry	259681	1	04/23/2018 13:38	AR
Benzene	BRL	4.4		ug/Kg-dry	259681	1	04/23/2018 13:38	AR
Bromodichloromethane	BRL	4.4		ug/Kg-dry	259681	1	04/23/2018 13:38	AR
Bromoform	BRL	4.4		ug/Kg-dry	259681	1	04/23/2018 13:38	AR
Bromomethane	BRL	4.4		ug/Kg-dry	259681	1	04/23/2018 13:38	AR
Carbon disulfide	BRL	8.7		ug/Kg-dry	259681	1	04/23/2018 13:38	AR
Carbon tetrachloride	BRL	4.4		ug/Kg-dry	259681	1	04/23/2018 13:38	AR
Chlorobenzene	BRL	4.4		ug/Kg-dry	259681	1	04/23/2018 13:38	AR
Chloroethane	BRL	8.7		ug/Kg-dry	259681	1	04/23/2018 13:38	AR
Chloroform	BRL	4.4		ug/Kg-dry	259681	1	04/23/2018 13:38	AR
Chloromethane	BRL	8.7		ug/Kg-dry	259681	1	04/23/2018 13:38	AR
cis-1,2-Dichloroethene	BRL	4.4		ug/Kg-dry	259681	1	04/23/2018 13:38	AR
cis-1,3-Dichloropropene	BRL	4.4		ug/Kg-dry	259681	1	04/23/2018 13:38	AR
Cyclohexane	BRL	4.4		ug/Kg-dry	259681	1	04/23/2018 13:38	AR
Dibromochloromethane	BRL	4.4		ug/Kg-dry	259681	1	04/23/2018 13:38	AR
Dichlorodifluoromethane	BRL	8.7		ug/Kg-dry	259681	1	04/23/2018 13:38	AR
Ethylbenzene	BRL	4.4		ug/Kg-dry	259681	1	04/23/2018 13:38	AR
Freon-113	BRL	8.7		ug/Kg-dry	259681	1	04/23/2018 13:38	AR
Isopropylbenzene	BRL	4.4		ug/Kg-dry	259681	1	04/23/2018 13:38	AR
m,p-Xylene	BRL	4.4		ug/Kg-dry	259681	1	04/23/2018 13:38	AR
Methyl acetate	BRL	4.4		ug/Kg-dry	259681	1	04/23/2018 13:38	AR
Methyl tert-butyl ether	BRL	4.4		ug/Kg-dry	259681	1	04/23/2018 13:38	AR
Methylcyclohexane	BRL	4.4		ug/Kg-dry	259681	1	04/23/2018 13:38	AR
Methylene chloride	BRL	17		ug/Kg-dry	259681	1	04/23/2018 13:38	AR
o-Xylene	BRL	4.4		ug/Kg-dry	259681	1	04/23/2018 13:38	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-15-0.5
Project Name: Rheem	Collection Date: 4/17/2018 10:55:00 AM
Lab ID: 1804H65-006	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5035)			
Styrene	BRL	4.4		ug/Kg-dry	259681	1	04/23/2018 13:38	AR
Tetrachloroethene	BRL	4.4		ug/Kg-dry	259681	1	04/23/2018 13:38	AR
Toluene	BRL	4.4		ug/Kg-dry	259681	1	04/23/2018 13:38	AR
trans-1,2-Dichloroethene	BRL	4.4		ug/Kg-dry	259681	1	04/23/2018 13:38	AR
trans-1,3-Dichloropropene	BRL	4.4		ug/Kg-dry	259681	1	04/23/2018 13:38	AR
Trichloroethene	150	4.4		ug/Kg-dry	259681	1	04/23/2018 13:38	AR
Trichlorofluoromethane	BRL	4.4		ug/Kg-dry	259681	1	04/23/2018 13:38	AR
Vinyl chloride	BRL	8.7		ug/Kg-dry	259681	1	04/23/2018 13:38	AR
Surr: 4-Bromofluorobenzene	94.5	65-133		%REC	259681	1	04/23/2018 13:38	AR
Surr: Dibromofluoromethane	90.3	75.8-119		%REC	259681	1	04/23/2018 13:38	AR
Surr: Toluene-d8	99.6	78.3-120		%REC	259681	1	04/23/2018 13:38	AR
PERCENT MOISTURE D2216								
Percent Moisture	19.0	0		wt%	R368387	1	04/20/2018 17:00	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-15-1.5
Project Name: Rheem	Collection Date: 4/17/2018 11:00:00 AM
Lab ID: 1804H65-007	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 14:53	AR
1,1,2,2-Tetrachloroethane	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 14:53	AR
1,1,2-Trichloroethane	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 14:53	AR
1,1-Dichloroethane	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 14:53	AR
1,1-Dichloroethene	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 14:53	AR
1,2,4-Trichlorobenzene	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 14:53	AR
1,2-Dibromo-3-chloropropane	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 14:53	AR
1,2-Dibromoethane	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 14:53	AR
1,2-Dichlorobenzene	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 14:53	AR
1,2-Dichloroethane	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 14:53	AR
1,2-Dichloropropane	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 14:53	AR
1,3-Dichlorobenzene	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 14:53	AR
1,4-Dichlorobenzene	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 14:53	AR
2-Butanone	BRL	37		ug/Kg-dry	259681	1	04/23/2018 14:53	AR
2-Hexanone	BRL	7.4		ug/Kg-dry	259681	1	04/23/2018 14:53	AR
4-Methyl-2-pentanone	BRL	7.4		ug/Kg-dry	259681	1	04/23/2018 14:53	AR
Acetone	200	74		ug/Kg-dry	259681	1	04/23/2018 14:53	AR
Benzene	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 14:53	AR
Bromodichloromethane	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 14:53	AR
Bromoform	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 14:53	AR
Bromomethane	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 14:53	AR
Carbon disulfide	BRL	7.4		ug/Kg-dry	259681	1	04/23/2018 14:53	AR
Carbon tetrachloride	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 14:53	AR
Chlorobenzene	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 14:53	AR
Chloroethane	BRL	7.4		ug/Kg-dry	259681	1	04/23/2018 14:53	AR
Chloroform	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 14:53	AR
Chloromethane	BRL	7.4		ug/Kg-dry	259681	1	04/23/2018 14:53	AR
cis-1,2-Dichloroethene	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 14:53	AR
cis-1,3-Dichloropropene	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 14:53	AR
Cyclohexane	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 14:53	AR
Dibromochloromethane	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 14:53	AR
Dichlorodifluoromethane	BRL	7.4		ug/Kg-dry	259681	1	04/23/2018 14:53	AR
Ethylbenzene	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 14:53	AR
Freon-113	BRL	7.4		ug/Kg-dry	259681	1	04/23/2018 14:53	AR
Isopropylbenzene	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 14:53	AR
m,p-Xylene	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 14:53	AR
Methyl acetate	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 14:53	AR
Methyl tert-butyl ether	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 14:53	AR
Methylcyclohexane	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 14:53	AR
Methylene chloride	BRL	15		ug/Kg-dry	259681	1	04/23/2018 14:53	AR
o-Xylene	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 14:53	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-15-1.5
Project Name: Rheem	Collection Date: 4/17/2018 11:00:00 AM
Lab ID: 1804H65-007	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
Styrene	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 14:53	AR
Tetrachloroethene	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 14:53	AR
Toluene	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 14:53	AR
trans-1,2-Dichloroethene	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 14:53	AR
trans-1,3-Dichloropropene	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 14:53	AR
Trichloroethene	170	73		ug/Kg-dry	259788	50	04/25/2018 14:10	AR
Trichlorofluoromethane	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 14:53	AR
Vinyl chloride	BRL	7.4		ug/Kg-dry	259681	1	04/23/2018 14:53	AR
Surr: 4-Bromofluorobenzene	87.4	65-133		%REC	259788	50	04/25/2018 14:10	AR
Surr: 4-Bromofluorobenzene	95.5	65-133		%REC	259681	1	04/23/2018 14:53	AR
Surr: Dibromofluoromethane	105	75.8-119		%REC	259788	50	04/25/2018 14:10	AR
Surr: Dibromofluoromethane	92	75.8-119		%REC	259681	1	04/23/2018 14:53	AR
Surr: Toluene-d8	94.8	78.3-120		%REC	259788	50	04/25/2018 14:10	AR
Surr: Toluene-d8	99.7	78.3-120		%REC	259681	1	04/23/2018 14:53	AR
PERCENT MOISTURE D2216								
Percent Moisture	14.7	0		wt%	R368387	1	04/20/2018 17:00	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-15-4
Project Name: Rheem	Collection Date: 4/17/2018 11:05:00 AM
Lab ID: 1804H65-008	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 15:18	AR
1,1,2,2-Tetrachloroethane	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 15:18	AR
1,1,2-Trichloroethane	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 15:18	AR
1,1-Dichloroethane	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 15:18	AR
1,1-Dichloroethene	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 15:18	AR
1,2,4-Trichlorobenzene	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 15:18	AR
1,2-Dibromo-3-chloropropane	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 15:18	AR
1,2-Dibromoethane	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 15:18	AR
1,2-Dichlorobenzene	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 15:18	AR
1,2-Dichloroethane	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 15:18	AR
1,2-Dichloropropane	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 15:18	AR
1,3-Dichlorobenzene	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 15:18	AR
1,4-Dichlorobenzene	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 15:18	AR
2-Butanone	BRL	37		ug/Kg-dry	259681	1	04/23/2018 15:18	AR
2-Hexanone	BRL	7.4		ug/Kg-dry	259681	1	04/23/2018 15:18	AR
4-Methyl-2-pentanone	BRL	7.4		ug/Kg-dry	259681	1	04/23/2018 15:18	AR
Acetone	BRL	74		ug/Kg-dry	259681	1	04/23/2018 15:18	AR
Benzene	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 15:18	AR
Bromodichloromethane	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 15:18	AR
Bromoform	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 15:18	AR
Bromomethane	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 15:18	AR
Carbon disulfide	BRL	7.4		ug/Kg-dry	259681	1	04/23/2018 15:18	AR
Carbon tetrachloride	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 15:18	AR
Chlorobenzene	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 15:18	AR
Chloroethane	BRL	7.4		ug/Kg-dry	259681	1	04/23/2018 15:18	AR
Chloroform	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 15:18	AR
Chloromethane	BRL	7.4		ug/Kg-dry	259681	1	04/23/2018 15:18	AR
cis-1,2-Dichloroethene	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 15:18	AR
cis-1,3-Dichloropropene	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 15:18	AR
Cyclohexane	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 15:18	AR
Dibromochloromethane	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 15:18	AR
Dichlorodifluoromethane	BRL	7.4		ug/Kg-dry	259681	1	04/23/2018 15:18	AR
Ethylbenzene	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 15:18	AR
Freon-113	BRL	7.4		ug/Kg-dry	259681	1	04/23/2018 15:18	AR
Isopropylbenzene	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 15:18	AR
m,p-Xylene	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 15:18	AR
Methyl acetate	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 15:18	AR
Methyl tert-butyl ether	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 15:18	AR
Methylcyclohexane	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 15:18	AR
Methylene chloride	BRL	15		ug/Kg-dry	259681	1	04/23/2018 15:18	AR
o-Xylene	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 15:18	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-15-4
Project Name: Rheem	Collection Date: 4/17/2018 11:05:00 AM
Lab ID: 1804H65-008	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5035)			
Styrene	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 15:18	AR
Tetrachloroethene	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 15:18	AR
Toluene	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 15:18	AR
trans-1,2-Dichloroethene	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 15:18	AR
trans-1,3-Dichloropropene	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 15:18	AR
Trichloroethene	5.5	3.7		ug/Kg-dry	259681	1	04/23/2018 15:18	AR
Trichlorofluoromethane	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 15:18	AR
Vinyl chloride	BRL	7.4		ug/Kg-dry	259681	1	04/23/2018 15:18	AR
Surr: 4-Bromofluorobenzene	96.5	65-133		%REC	259681	1	04/23/2018 15:18	AR
Surr: Dibromofluoromethane	89.5	75.8-119		%REC	259681	1	04/23/2018 15:18	AR
Surr: Toluene-d8	99.7	78.3-120		%REC	259681	1	04/23/2018 15:18	AR
PERCENT MOISTURE D2216								
Percent Moisture	29.8	0		wt%	R368387	1	04/20/2018 17:00	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-15-10
Project Name: Rheem	Collection Date: 4/17/2018 11:10:00 AM
Lab ID: 1804H65-009	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	4.0		ug/Kg-dry	259681	1	04/23/2018 15:43	AR
1,1,2,2-Tetrachloroethane	BRL	4.0		ug/Kg-dry	259681	1	04/23/2018 15:43	AR
1,1,2-Trichloroethane	BRL	4.0		ug/Kg-dry	259681	1	04/23/2018 15:43	AR
1,1-Dichloroethane	BRL	4.0		ug/Kg-dry	259681	1	04/23/2018 15:43	AR
1,1-Dichloroethene	BRL	4.0		ug/Kg-dry	259681	1	04/23/2018 15:43	AR
1,2,4-Trichlorobenzene	BRL	4.0		ug/Kg-dry	259681	1	04/23/2018 15:43	AR
1,2-Dibromo-3-chloropropane	BRL	4.0		ug/Kg-dry	259681	1	04/23/2018 15:43	AR
1,2-Dibromoethane	BRL	4.0		ug/Kg-dry	259681	1	04/23/2018 15:43	AR
1,2-Dichlorobenzene	BRL	4.0		ug/Kg-dry	259681	1	04/23/2018 15:43	AR
1,2-Dichloroethane	BRL	4.0		ug/Kg-dry	259681	1	04/23/2018 15:43	AR
1,2-Dichloropropane	BRL	4.0		ug/Kg-dry	259681	1	04/23/2018 15:43	AR
1,3-Dichlorobenzene	BRL	4.0		ug/Kg-dry	259681	1	04/23/2018 15:43	AR
1,4-Dichlorobenzene	BRL	4.0		ug/Kg-dry	259681	1	04/23/2018 15:43	AR
2-Butanone	220	40		ug/Kg-dry	259681	1	04/23/2018 15:43	AR
2-Hexanone	BRL	7.9		ug/Kg-dry	259681	1	04/23/2018 15:43	AR
4-Methyl-2-pentanone	BRL	7.9		ug/Kg-dry	259681	1	04/23/2018 15:43	AR
Acetone	310	79		ug/Kg-dry	259681	1	04/23/2018 15:43	AR
Benzene	BRL	4.0		ug/Kg-dry	259681	1	04/23/2018 15:43	AR
Bromodichloromethane	BRL	4.0		ug/Kg-dry	259681	1	04/23/2018 15:43	AR
Bromoform	BRL	4.0		ug/Kg-dry	259681	1	04/23/2018 15:43	AR
Bromomethane	BRL	4.0		ug/Kg-dry	259681	1	04/23/2018 15:43	AR
Carbon disulfide	BRL	7.9		ug/Kg-dry	259681	1	04/23/2018 15:43	AR
Carbon tetrachloride	BRL	4.0		ug/Kg-dry	259681	1	04/23/2018 15:43	AR
Chlorobenzene	BRL	4.0		ug/Kg-dry	259681	1	04/23/2018 15:43	AR
Chloroethane	BRL	7.9		ug/Kg-dry	259681	1	04/23/2018 15:43	AR
Chloroform	BRL	4.0		ug/Kg-dry	259681	1	04/23/2018 15:43	AR
Chloromethane	BRL	7.9		ug/Kg-dry	259681	1	04/23/2018 15:43	AR
cis-1,2-Dichloroethene	BRL	4.0		ug/Kg-dry	259681	1	04/23/2018 15:43	AR
cis-1,3-Dichloropropene	BRL	4.0		ug/Kg-dry	259681	1	04/23/2018 15:43	AR
Cyclohexane	BRL	4.0		ug/Kg-dry	259681	1	04/23/2018 15:43	AR
Dibromochloromethane	BRL	4.0		ug/Kg-dry	259681	1	04/23/2018 15:43	AR
Dichlorodifluoromethane	BRL	7.9		ug/Kg-dry	259681	1	04/23/2018 15:43	AR
Ethylbenzene	BRL	4.0		ug/Kg-dry	259681	1	04/23/2018 15:43	AR
Freon-113	BRL	7.9		ug/Kg-dry	259681	1	04/23/2018 15:43	AR
Isopropylbenzene	BRL	4.0		ug/Kg-dry	259681	1	04/23/2018 15:43	AR
m,p-Xylene	BRL	4.0		ug/Kg-dry	259681	1	04/23/2018 15:43	AR
Methyl acetate	BRL	4.0		ug/Kg-dry	259681	1	04/23/2018 15:43	AR
Methyl tert-butyl ether	BRL	4.0		ug/Kg-dry	259681	1	04/23/2018 15:43	AR
Methylcyclohexane	BRL	4.0		ug/Kg-dry	259681	1	04/23/2018 15:43	AR
Methylene chloride	BRL	16		ug/Kg-dry	259681	1	04/23/2018 15:43	AR
o-Xylene	BRL	4.0		ug/Kg-dry	259681	1	04/23/2018 15:43	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-15-10
Project Name: Rheem	Collection Date: 4/17/2018 11:10:00 AM
Lab ID: 1804H65-009	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5035)			
Styrene	BRL	4.0		ug/Kg-dry	259681	1	04/23/2018 15:43	AR
Tetrachloroethene	BRL	4.0		ug/Kg-dry	259681	1	04/23/2018 15:43	AR
Toluene	BRL	4.0		ug/Kg-dry	259681	1	04/23/2018 15:43	AR
trans-1,2-Dichloroethene	BRL	4.0		ug/Kg-dry	259681	1	04/23/2018 15:43	AR
trans-1,3-Dichloropropene	BRL	4.0		ug/Kg-dry	259681	1	04/23/2018 15:43	AR
Trichloroethene	BRL	4.0		ug/Kg-dry	259681	1	04/23/2018 15:43	AR
Trichlorofluoromethane	BRL	4.0		ug/Kg-dry	259681	1	04/23/2018 15:43	AR
Vinyl chloride	BRL	7.9		ug/Kg-dry	259681	1	04/23/2018 15:43	AR
Surr: 4-Bromofluorobenzene	97.2	65-133		%REC	259681	1	04/23/2018 15:43	AR
Surr: Dibromofluoromethane	92.5	75.8-119		%REC	259681	1	04/23/2018 15:43	AR
Surr: Toluene-d8	102	78.3-120		%REC	259681	1	04/23/2018 15:43	AR
PERCENT MOISTURE D2216								
Percent Moisture	19.8	0		wt%	R368387	1	04/20/2018 17:00	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-15-14
Project Name: Rheem	Collection Date: 4/17/2018 11:15:00 AM
Lab ID: 1804H65-010	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	3.2		ug/Kg-dry	259681	1	04/23/2018 16:08	AR
1,1,2,2-Tetrachloroethane	BRL	3.2		ug/Kg-dry	259681	1	04/23/2018 16:08	AR
1,1,2-Trichloroethane	BRL	3.2		ug/Kg-dry	259681	1	04/23/2018 16:08	AR
1,1-Dichloroethane	BRL	3.2		ug/Kg-dry	259681	1	04/23/2018 16:08	AR
1,1-Dichloroethene	BRL	3.2		ug/Kg-dry	259681	1	04/23/2018 16:08	AR
1,2,4-Trichlorobenzene	BRL	3.2		ug/Kg-dry	259681	1	04/23/2018 16:08	AR
1,2-Dibromo-3-chloropropane	BRL	3.2		ug/Kg-dry	259681	1	04/23/2018 16:08	AR
1,2-Dibromoethane	BRL	3.2		ug/Kg-dry	259681	1	04/23/2018 16:08	AR
1,2-Dichlorobenzene	BRL	3.2		ug/Kg-dry	259681	1	04/23/2018 16:08	AR
1,2-Dichloroethane	BRL	3.2		ug/Kg-dry	259681	1	04/23/2018 16:08	AR
1,2-Dichloropropane	BRL	3.2		ug/Kg-dry	259681	1	04/23/2018 16:08	AR
1,3-Dichlorobenzene	BRL	3.2		ug/Kg-dry	259681	1	04/23/2018 16:08	AR
1,4-Dichlorobenzene	BRL	3.2		ug/Kg-dry	259681	1	04/23/2018 16:08	AR
2-Butanone	BRL	32		ug/Kg-dry	259681	1	04/23/2018 16:08	AR
2-Hexanone	BRL	6.3		ug/Kg-dry	259681	1	04/23/2018 16:08	AR
4-Methyl-2-pentanone	BRL	6.3		ug/Kg-dry	259681	1	04/23/2018 16:08	AR
Acetone	BRL	63		ug/Kg-dry	259681	1	04/23/2018 16:08	AR
Benzene	BRL	3.2		ug/Kg-dry	259681	1	04/23/2018 16:08	AR
Bromodichloromethane	BRL	3.2		ug/Kg-dry	259681	1	04/23/2018 16:08	AR
Bromoform	BRL	3.2		ug/Kg-dry	259681	1	04/23/2018 16:08	AR
Bromomethane	BRL	3.2		ug/Kg-dry	259681	1	04/23/2018 16:08	AR
Carbon disulfide	BRL	6.3		ug/Kg-dry	259681	1	04/23/2018 16:08	AR
Carbon tetrachloride	BRL	3.2		ug/Kg-dry	259681	1	04/23/2018 16:08	AR
Chlorobenzene	BRL	3.2		ug/Kg-dry	259681	1	04/23/2018 16:08	AR
Chloroethane	BRL	6.3		ug/Kg-dry	259681	1	04/23/2018 16:08	AR
Chloroform	BRL	3.2		ug/Kg-dry	259681	1	04/23/2018 16:08	AR
Chloromethane	BRL	6.3		ug/Kg-dry	259681	1	04/23/2018 16:08	AR
cis-1,2-Dichloroethene	BRL	3.2		ug/Kg-dry	259681	1	04/23/2018 16:08	AR
cis-1,3-Dichloropropene	BRL	3.2		ug/Kg-dry	259681	1	04/23/2018 16:08	AR
Cyclohexane	BRL	3.2		ug/Kg-dry	259681	1	04/23/2018 16:08	AR
Dibromochloromethane	BRL	3.2		ug/Kg-dry	259681	1	04/23/2018 16:08	AR
Dichlorodifluoromethane	BRL	6.3		ug/Kg-dry	259681	1	04/23/2018 16:08	AR
Ethylbenzene	BRL	3.2		ug/Kg-dry	259681	1	04/23/2018 16:08	AR
Freon-113	BRL	6.3		ug/Kg-dry	259681	1	04/23/2018 16:08	AR
Isopropylbenzene	BRL	3.2		ug/Kg-dry	259681	1	04/23/2018 16:08	AR
m,p-Xylene	BRL	3.2		ug/Kg-dry	259681	1	04/23/2018 16:08	AR
Methyl acetate	BRL	3.2		ug/Kg-dry	259681	1	04/23/2018 16:08	AR
Methyl tert-butyl ether	BRL	3.2		ug/Kg-dry	259681	1	04/23/2018 16:08	AR
Methylcyclohexane	BRL	3.2		ug/Kg-dry	259681	1	04/23/2018 16:08	AR
Methylene chloride	BRL	13		ug/Kg-dry	259681	1	04/23/2018 16:08	AR
o-Xylene	BRL	3.2		ug/Kg-dry	259681	1	04/23/2018 16:08	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-15-14
Project Name: Rheem	Collection Date: 4/17/2018 11:15:00 AM
Lab ID: 1804H65-010	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B			(SW5035)					
Styrene	BRL	3.2		ug/Kg-dry	259681	1	04/23/2018 16:08	AR
Tetrachloroethene	BRL	3.2		ug/Kg-dry	259681	1	04/23/2018 16:08	AR
Toluene	BRL	3.2		ug/Kg-dry	259681	1	04/23/2018 16:08	AR
trans-1,2-Dichloroethene	BRL	3.2		ug/Kg-dry	259681	1	04/23/2018 16:08	AR
trans-1,3-Dichloropropene	BRL	3.2		ug/Kg-dry	259681	1	04/23/2018 16:08	AR
Trichloroethene	9.3	3.2		ug/Kg-dry	259681	1	04/23/2018 16:08	AR
Trichlorofluoromethane	BRL	3.2		ug/Kg-dry	259681	1	04/23/2018 16:08	AR
Vinyl chloride	BRL	6.3		ug/Kg-dry	259681	1	04/23/2018 16:08	AR
Surr: 4-Bromofluorobenzene	102	65-133		%REC	259681	1	04/23/2018 16:08	AR
Surr: Dibromofluoromethane	92.1	75.8-119		%REC	259681	1	04/23/2018 16:08	AR
Surr: Toluene-d8	102	78.3-120		%REC	259681	1	04/23/2018 16:08	AR
PERCENT MOISTURE D2216								
Percent Moisture	26.2	0		wt%	R368387	1	04/20/2018 17:00	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-16-0.5
Project Name: Rheem	Collection Date: 4/17/2018 11:25:00 AM
Lab ID: 1804H65-011	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	3.9		ug/Kg-dry	259681	1	04/23/2018 16:32	AR
1,1,2,2-Tetrachloroethane	BRL	3.9		ug/Kg-dry	259681	1	04/23/2018 16:32	AR
1,1,2-Trichloroethane	BRL	3.9		ug/Kg-dry	259681	1	04/23/2018 16:32	AR
1,1-Dichloroethane	BRL	3.9		ug/Kg-dry	259681	1	04/23/2018 16:32	AR
1,1-Dichloroethene	BRL	3.9		ug/Kg-dry	259681	1	04/23/2018 16:32	AR
1,2,4-Trichlorobenzene	BRL	3.9		ug/Kg-dry	259681	1	04/23/2018 16:32	AR
1,2-Dibromo-3-chloropropane	BRL	3.9		ug/Kg-dry	259681	1	04/23/2018 16:32	AR
1,2-Dibromoethane	BRL	3.9		ug/Kg-dry	259681	1	04/23/2018 16:32	AR
1,2-Dichlorobenzene	BRL	3.9		ug/Kg-dry	259681	1	04/23/2018 16:32	AR
1,2-Dichloroethane	BRL	3.9		ug/Kg-dry	259681	1	04/23/2018 16:32	AR
1,2-Dichloropropane	BRL	3.9		ug/Kg-dry	259681	1	04/23/2018 16:32	AR
1,3-Dichlorobenzene	BRL	3.9		ug/Kg-dry	259681	1	04/23/2018 16:32	AR
1,4-Dichlorobenzene	BRL	3.9		ug/Kg-dry	259681	1	04/23/2018 16:32	AR
2-Butanone	BRL	39		ug/Kg-dry	259681	1	04/23/2018 16:32	AR
2-Hexanone	BRL	7.8		ug/Kg-dry	259681	1	04/23/2018 16:32	AR
4-Methyl-2-pentanone	BRL	7.8		ug/Kg-dry	259681	1	04/23/2018 16:32	AR
Acetone	BRL	78		ug/Kg-dry	259681	1	04/23/2018 16:32	AR
Benzene	BRL	3.9		ug/Kg-dry	259681	1	04/23/2018 16:32	AR
Bromodichloromethane	BRL	3.9		ug/Kg-dry	259681	1	04/23/2018 16:32	AR
Bromoform	BRL	3.9		ug/Kg-dry	259681	1	04/23/2018 16:32	AR
Bromomethane	BRL	3.9		ug/Kg-dry	259681	1	04/23/2018 16:32	AR
Carbon disulfide	BRL	7.8		ug/Kg-dry	259681	1	04/23/2018 16:32	AR
Carbon tetrachloride	BRL	3.9		ug/Kg-dry	259681	1	04/23/2018 16:32	AR
Chlorobenzene	BRL	3.9		ug/Kg-dry	259681	1	04/23/2018 16:32	AR
Chloroethane	BRL	7.8		ug/Kg-dry	259681	1	04/23/2018 16:32	AR
Chloroform	BRL	3.9		ug/Kg-dry	259681	1	04/23/2018 16:32	AR
Chloromethane	BRL	7.8		ug/Kg-dry	259681	1	04/23/2018 16:32	AR
cis-1,2-Dichloroethene	BRL	3.9		ug/Kg-dry	259681	1	04/23/2018 16:32	AR
cis-1,3-Dichloropropene	BRL	3.9		ug/Kg-dry	259681	1	04/23/2018 16:32	AR
Cyclohexane	BRL	3.9		ug/Kg-dry	259681	1	04/23/2018 16:32	AR
Dibromochloromethane	BRL	3.9		ug/Kg-dry	259681	1	04/23/2018 16:32	AR
Dichlorodifluoromethane	BRL	7.8		ug/Kg-dry	259681	1	04/23/2018 16:32	AR
Ethylbenzene	BRL	3.9		ug/Kg-dry	259681	1	04/23/2018 16:32	AR
Freon-113	BRL	7.8		ug/Kg-dry	259681	1	04/23/2018 16:32	AR
Isopropylbenzene	BRL	3.9		ug/Kg-dry	259681	1	04/23/2018 16:32	AR
m,p-Xylene	BRL	3.9		ug/Kg-dry	259681	1	04/23/2018 16:32	AR
Methyl acetate	BRL	3.9		ug/Kg-dry	259681	1	04/23/2018 16:32	AR
Methyl tert-butyl ether	BRL	3.9		ug/Kg-dry	259681	1	04/23/2018 16:32	AR
Methylcyclohexane	BRL	3.9		ug/Kg-dry	259681	1	04/23/2018 16:32	AR
Methylene chloride	BRL	16		ug/Kg-dry	259681	1	04/23/2018 16:32	AR
o-Xylene	BRL	3.9		ug/Kg-dry	259681	1	04/23/2018 16:32	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-16-0.5
Project Name: Rheem	Collection Date: 4/17/2018 11:25:00 AM
Lab ID: 1804H65-011	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
Styrene	BRL	3.9		ug/Kg-dry	259681	1	04/23/2018 16:32	AR
Tetrachloroethene	BRL	3.9		ug/Kg-dry	259681	1	04/23/2018 16:32	AR
Toluene	BRL	3.9		ug/Kg-dry	259681	1	04/23/2018 16:32	AR
trans-1,2-Dichloroethene	BRL	3.9		ug/Kg-dry	259681	1	04/23/2018 16:32	AR
trans-1,3-Dichloropropene	BRL	3.9		ug/Kg-dry	259681	1	04/23/2018 16:32	AR
Trichloroethene	1300	160		ug/Kg-dry	259788	50	04/25/2018 15:50	AR
Trichlorofluoromethane	BRL	3.9		ug/Kg-dry	259681	1	04/23/2018 16:32	AR
Vinyl chloride	BRL	7.8		ug/Kg-dry	259681	1	04/23/2018 16:32	AR
Surr: 4-Bromofluorobenzene	85.6	65-133		%REC	259788	50	04/25/2018 15:50	AR
Surr: 4-Bromofluorobenzene	90.3	65-133		%REC	259681	1	04/23/2018 16:32	AR
Surr: Dibromofluoromethane	104	75.8-119		%REC	259788	50	04/25/2018 15:50	AR
Surr: Dibromofluoromethane	94	75.8-119		%REC	259681	1	04/23/2018 16:32	AR
Surr: Toluene-d8	93.9	78.3-120		%REC	259788	50	04/25/2018 15:50	AR
Surr: Toluene-d8	99.7	78.3-120		%REC	259681	1	04/23/2018 16:32	AR
PERCENT MOISTURE D2216								
Percent Moisture	10.6	0		wt%	R368387	1	04/20/2018 17:00	NS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-16-1.5
Project Name: Rheem	Collection Date: 4/17/2018 11:30:00 AM
Lab ID: 1804H65-012	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	2.8		ug/Kg-dry	259681	1	04/23/2018 16:57	AR
1,1,2,2-Tetrachloroethane	BRL	2.8		ug/Kg-dry	259681	1	04/23/2018 16:57	AR
1,1,2-Trichloroethane	BRL	2.8		ug/Kg-dry	259681	1	04/23/2018 16:57	AR
1,1-Dichloroethane	BRL	2.8		ug/Kg-dry	259681	1	04/23/2018 16:57	AR
1,1-Dichloroethene	BRL	2.8		ug/Kg-dry	259681	1	04/23/2018 16:57	AR
1,2,4-Trichlorobenzene	BRL	2.8		ug/Kg-dry	259681	1	04/23/2018 16:57	AR
1,2-Dibromo-3-chloropropane	BRL	2.8		ug/Kg-dry	259681	1	04/23/2018 16:57	AR
1,2-Dibromoethane	BRL	2.8		ug/Kg-dry	259681	1	04/23/2018 16:57	AR
1,2-Dichlorobenzene	BRL	2.8		ug/Kg-dry	259681	1	04/23/2018 16:57	AR
1,2-Dichloroethane	BRL	2.8		ug/Kg-dry	259681	1	04/23/2018 16:57	AR
1,2-Dichloropropane	BRL	2.8		ug/Kg-dry	259681	1	04/23/2018 16:57	AR
1,3-Dichlorobenzene	BRL	2.8		ug/Kg-dry	259681	1	04/23/2018 16:57	AR
1,4-Dichlorobenzene	BRL	2.8		ug/Kg-dry	259681	1	04/23/2018 16:57	AR
2-Butanone	BRL	28		ug/Kg-dry	259681	1	04/23/2018 16:57	AR
2-Hexanone	BRL	5.6		ug/Kg-dry	259681	1	04/23/2018 16:57	AR
4-Methyl-2-pentanone	BRL	5.6		ug/Kg-dry	259681	1	04/23/2018 16:57	AR
Acetone	BRL	56		ug/Kg-dry	259681	1	04/23/2018 16:57	AR
Benzene	BRL	2.8		ug/Kg-dry	259681	1	04/23/2018 16:57	AR
Bromodichloromethane	BRL	2.8		ug/Kg-dry	259681	1	04/23/2018 16:57	AR
Bromoform	BRL	2.8		ug/Kg-dry	259681	1	04/23/2018 16:57	AR
Bromomethane	BRL	2.8		ug/Kg-dry	259681	1	04/23/2018 16:57	AR
Carbon disulfide	BRL	5.6		ug/Kg-dry	259681	1	04/23/2018 16:57	AR
Carbon tetrachloride	BRL	2.8		ug/Kg-dry	259681	1	04/23/2018 16:57	AR
Chlorobenzene	BRL	2.8		ug/Kg-dry	259681	1	04/23/2018 16:57	AR
Chloroethane	BRL	5.6		ug/Kg-dry	259681	1	04/23/2018 16:57	AR
Chloroform	BRL	2.8		ug/Kg-dry	259681	1	04/23/2018 16:57	AR
Chloromethane	BRL	5.6		ug/Kg-dry	259681	1	04/23/2018 16:57	AR
cis-1,2-Dichloroethene	BRL	2.8		ug/Kg-dry	259681	1	04/23/2018 16:57	AR
cis-1,3-Dichloropropene	BRL	2.8		ug/Kg-dry	259681	1	04/23/2018 16:57	AR
Cyclohexane	BRL	2.8		ug/Kg-dry	259681	1	04/23/2018 16:57	AR
Dibromochloromethane	BRL	2.8		ug/Kg-dry	259681	1	04/23/2018 16:57	AR
Dichlorodifluoromethane	BRL	5.6		ug/Kg-dry	259681	1	04/23/2018 16:57	AR
Ethylbenzene	BRL	2.8		ug/Kg-dry	259681	1	04/23/2018 16:57	AR
Freon-113	BRL	5.6		ug/Kg-dry	259681	1	04/23/2018 16:57	AR
Isopropylbenzene	BRL	2.8		ug/Kg-dry	259681	1	04/23/2018 16:57	AR
m,p-Xylene	BRL	2.8		ug/Kg-dry	259681	1	04/23/2018 16:57	AR
Methyl acetate	BRL	2.8		ug/Kg-dry	259681	1	04/23/2018 16:57	AR
Methyl tert-butyl ether	BRL	2.8		ug/Kg-dry	259681	1	04/23/2018 16:57	AR
Methylcyclohexane	BRL	2.8		ug/Kg-dry	259681	1	04/23/2018 16:57	AR
Methylene chloride	BRL	11		ug/Kg-dry	259681	1	04/23/2018 16:57	AR
o-Xylene	BRL	2.8		ug/Kg-dry	259681	1	04/23/2018 16:57	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-16-1.5
Project Name: Rheem	Collection Date: 4/17/2018 11:30:00 AM
Lab ID: 1804H65-012	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5035)			
Styrene	BRL	2.8		ug/Kg-dry	259681	1	04/23/2018 16:57	AR
Tetrachloroethene	BRL	2.8		ug/Kg-dry	259681	1	04/23/2018 16:57	AR
Toluene	BRL	2.8		ug/Kg-dry	259681	1	04/23/2018 16:57	AR
trans-1,2-Dichloroethene	BRL	2.8		ug/Kg-dry	259681	1	04/23/2018 16:57	AR
trans-1,3-Dichloropropene	BRL	2.8		ug/Kg-dry	259681	1	04/23/2018 16:57	AR
Trichloroethene	4.8	2.8		ug/Kg-dry	259681	1	04/23/2018 16:57	AR
Trichlorofluoromethane	BRL	2.8		ug/Kg-dry	259681	1	04/23/2018 16:57	AR
Vinyl chloride	BRL	5.6		ug/Kg-dry	259681	1	04/23/2018 16:57	AR
Surr: 4-Bromofluorobenzene	98.3	65-133		%REC	259681	1	04/23/2018 16:57	AR
Surr: Dibromofluoromethane	90.4	75.8-119		%REC	259681	1	04/23/2018 16:57	AR
Surr: Toluene-d8	101	78.3-120		%REC	259681	1	04/23/2018 16:57	AR
PERCENT MOISTURE D2216								
Percent Moisture	13.2	0		wt%	R368387	1	04/20/2018 17:00	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-16-4
Project Name: Rheem	Collection Date: 4/17/2018 11:45:00 AM
Lab ID: 1804H65-013	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	3.5		ug/Kg-dry	259681	1	04/23/2018 17:22	AR
1,1,2,2-Tetrachloroethane	BRL	3.5		ug/Kg-dry	259681	1	04/23/2018 17:22	AR
1,1,2-Trichloroethane	BRL	3.5		ug/Kg-dry	259681	1	04/23/2018 17:22	AR
1,1-Dichloroethane	BRL	3.5		ug/Kg-dry	259681	1	04/23/2018 17:22	AR
1,1-Dichloroethene	BRL	3.5		ug/Kg-dry	259681	1	04/23/2018 17:22	AR
1,2,4-Trichlorobenzene	BRL	3.5		ug/Kg-dry	259681	1	04/23/2018 17:22	AR
1,2-Dibromo-3-chloropropane	BRL	3.5		ug/Kg-dry	259681	1	04/23/2018 17:22	AR
1,2-Dibromoethane	BRL	3.5		ug/Kg-dry	259681	1	04/23/2018 17:22	AR
1,2-Dichlorobenzene	BRL	3.5		ug/Kg-dry	259681	1	04/23/2018 17:22	AR
1,2-Dichloroethane	BRL	3.5		ug/Kg-dry	259681	1	04/23/2018 17:22	AR
1,2-Dichloropropane	BRL	3.5		ug/Kg-dry	259681	1	04/23/2018 17:22	AR
1,3-Dichlorobenzene	BRL	3.5		ug/Kg-dry	259681	1	04/23/2018 17:22	AR
1,4-Dichlorobenzene	BRL	3.5		ug/Kg-dry	259681	1	04/23/2018 17:22	AR
2-Butanone	BRL	35		ug/Kg-dry	259681	1	04/23/2018 17:22	AR
2-Hexanone	BRL	6.9		ug/Kg-dry	259681	1	04/23/2018 17:22	AR
4-Methyl-2-pentanone	BRL	6.9		ug/Kg-dry	259681	1	04/23/2018 17:22	AR
Acetone	BRL	69		ug/Kg-dry	259681	1	04/23/2018 17:22	AR
Benzene	BRL	3.5		ug/Kg-dry	259681	1	04/23/2018 17:22	AR
Bromodichloromethane	BRL	3.5		ug/Kg-dry	259681	1	04/23/2018 17:22	AR
Bromoform	BRL	3.5		ug/Kg-dry	259681	1	04/23/2018 17:22	AR
Bromomethane	BRL	3.5		ug/Kg-dry	259681	1	04/23/2018 17:22	AR
Carbon disulfide	BRL	6.9		ug/Kg-dry	259681	1	04/23/2018 17:22	AR
Carbon tetrachloride	BRL	3.5		ug/Kg-dry	259681	1	04/23/2018 17:22	AR
Chlorobenzene	BRL	3.5		ug/Kg-dry	259681	1	04/23/2018 17:22	AR
Chloroethane	BRL	6.9		ug/Kg-dry	259681	1	04/23/2018 17:22	AR
Chloroform	BRL	3.5		ug/Kg-dry	259681	1	04/23/2018 17:22	AR
Chloromethane	BRL	6.9		ug/Kg-dry	259681	1	04/23/2018 17:22	AR
cis-1,2-Dichloroethene	BRL	3.5		ug/Kg-dry	259681	1	04/23/2018 17:22	AR
cis-1,3-Dichloropropene	BRL	3.5		ug/Kg-dry	259681	1	04/23/2018 17:22	AR
Cyclohexane	BRL	3.5		ug/Kg-dry	259681	1	04/23/2018 17:22	AR
Dibromochloromethane	BRL	3.5		ug/Kg-dry	259681	1	04/23/2018 17:22	AR
Dichlorodifluoromethane	BRL	6.9		ug/Kg-dry	259681	1	04/23/2018 17:22	AR
Ethylbenzene	BRL	3.5		ug/Kg-dry	259681	1	04/23/2018 17:22	AR
Freon-113	BRL	6.9		ug/Kg-dry	259681	1	04/23/2018 17:22	AR
Isopropylbenzene	BRL	3.5		ug/Kg-dry	259681	1	04/23/2018 17:22	AR
m,p-Xylene	BRL	3.5		ug/Kg-dry	259681	1	04/23/2018 17:22	AR
Methyl acetate	BRL	3.5		ug/Kg-dry	259681	1	04/23/2018 17:22	AR
Methyl tert-butyl ether	BRL	3.5		ug/Kg-dry	259681	1	04/23/2018 17:22	AR
Methylcyclohexane	BRL	3.5		ug/Kg-dry	259681	1	04/23/2018 17:22	AR
Methylene chloride	BRL	14		ug/Kg-dry	259681	1	04/23/2018 17:22	AR
o-Xylene	BRL	3.5		ug/Kg-dry	259681	1	04/23/2018 17:22	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-16-4
Project Name: Rheem	Collection Date: 4/17/2018 11:45:00 AM
Lab ID: 1804H65-013	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B			(SW5035)					
Styrene	BRL	3.5		ug/Kg-dry	259681	1	04/23/2018 17:22	AR
Tetrachloroethene	BRL	3.5		ug/Kg-dry	259681	1	04/23/2018 17:22	AR
Toluene	BRL	3.5		ug/Kg-dry	259681	1	04/23/2018 17:22	AR
trans-1,2-Dichloroethene	BRL	3.5		ug/Kg-dry	259681	1	04/23/2018 17:22	AR
trans-1,3-Dichloropropene	BRL	3.5		ug/Kg-dry	259681	1	04/23/2018 17:22	AR
Trichloroethene	4.9	3.5		ug/Kg-dry	259681	1	04/23/2018 17:22	AR
Trichlorofluoromethane	BRL	3.5		ug/Kg-dry	259681	1	04/23/2018 17:22	AR
Vinyl chloride	BRL	6.9		ug/Kg-dry	259681	1	04/23/2018 17:22	AR
Surr: 4-Bromofluorobenzene	98.4	65-133		%REC	259681	1	04/23/2018 17:22	AR
Surr: Dibromofluoromethane	89.4	75.8-119		%REC	259681	1	04/23/2018 17:22	AR
Surr: Toluene-d8	101	78.3-120		%REC	259681	1	04/23/2018 17:22	AR
PERCENT MOISTURE D2216								
Percent Moisture	16.7	0		wt%	R368387	1	04/20/2018 17:00	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-16-8
Project Name: Rheem	Collection Date: 4/17/2018 11:50:00 AM
Lab ID: 1804H65-014	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	3.5		ug/Kg-dry	259681	1	04/24/2018 15:38	AR
1,1,2,2-Tetrachloroethane	BRL	3.5		ug/Kg-dry	259681	1	04/24/2018 15:38	AR
1,1,2-Trichloroethane	BRL	3.5		ug/Kg-dry	259681	1	04/24/2018 15:38	AR
1,1-Dichloroethane	BRL	3.5		ug/Kg-dry	259681	1	04/24/2018 15:38	AR
1,1-Dichloroethene	BRL	3.5		ug/Kg-dry	259681	1	04/24/2018 15:38	AR
1,2,4-Trichlorobenzene	BRL	3.5		ug/Kg-dry	259681	1	04/24/2018 15:38	AR
1,2-Dibromo-3-chloropropane	BRL	3.5		ug/Kg-dry	259681	1	04/24/2018 15:38	AR
1,2-Dibromoethane	BRL	3.5		ug/Kg-dry	259681	1	04/24/2018 15:38	AR
1,2-Dichlorobenzene	BRL	3.5		ug/Kg-dry	259681	1	04/24/2018 15:38	AR
1,2-Dichloroethane	BRL	3.5		ug/Kg-dry	259681	1	04/24/2018 15:38	AR
1,2-Dichloropropane	BRL	3.5		ug/Kg-dry	259681	1	04/24/2018 15:38	AR
1,3-Dichlorobenzene	BRL	3.5		ug/Kg-dry	259681	1	04/24/2018 15:38	AR
1,4-Dichlorobenzene	BRL	3.5		ug/Kg-dry	259681	1	04/24/2018 15:38	AR
2-Butanone	BRL	35		ug/Kg-dry	259681	1	04/24/2018 15:38	AR
2-Hexanone	BRL	7.1		ug/Kg-dry	259681	1	04/24/2018 15:38	AR
4-Methyl-2-pentanone	BRL	7.1		ug/Kg-dry	259681	1	04/24/2018 15:38	AR
Acetone	BRL	71		ug/Kg-dry	259681	1	04/24/2018 15:38	AR
Benzene	BRL	3.5		ug/Kg-dry	259681	1	04/24/2018 15:38	AR
Bromodichloromethane	BRL	3.5		ug/Kg-dry	259681	1	04/24/2018 15:38	AR
Bromoform	BRL	3.5		ug/Kg-dry	259681	1	04/24/2018 15:38	AR
Bromomethane	BRL	3.5		ug/Kg-dry	259681	1	04/24/2018 15:38	AR
Carbon disulfide	BRL	7.1		ug/Kg-dry	259681	1	04/24/2018 15:38	AR
Carbon tetrachloride	BRL	3.5		ug/Kg-dry	259681	1	04/24/2018 15:38	AR
Chlorobenzene	BRL	3.5		ug/Kg-dry	259681	1	04/24/2018 15:38	AR
Chloroethane	BRL	7.1		ug/Kg-dry	259681	1	04/24/2018 15:38	AR
Chloroform	BRL	3.5		ug/Kg-dry	259681	1	04/24/2018 15:38	AR
Chloromethane	BRL	7.1		ug/Kg-dry	259681	1	04/24/2018 15:38	AR
cis-1,2-Dichloroethene	BRL	3.5		ug/Kg-dry	259681	1	04/24/2018 15:38	AR
cis-1,3-Dichloropropene	BRL	3.5		ug/Kg-dry	259681	1	04/24/2018 15:38	AR
Cyclohexane	BRL	3.5		ug/Kg-dry	259681	1	04/24/2018 15:38	AR
Dibromochloromethane	BRL	3.5		ug/Kg-dry	259681	1	04/24/2018 15:38	AR
Dichlorodifluoromethane	BRL	7.1		ug/Kg-dry	259681	1	04/24/2018 15:38	AR
Ethylbenzene	BRL	3.5		ug/Kg-dry	259681	1	04/24/2018 15:38	AR
Freon-113	BRL	7.1		ug/Kg-dry	259681	1	04/24/2018 15:38	AR
Isopropylbenzene	BRL	3.5		ug/Kg-dry	259681	1	04/24/2018 15:38	AR
m,p-Xylene	BRL	3.5		ug/Kg-dry	259681	1	04/24/2018 15:38	AR
Methyl acetate	BRL	3.5		ug/Kg-dry	259681	1	04/24/2018 15:38	AR
Methyl tert-butyl ether	BRL	3.5		ug/Kg-dry	259681	1	04/24/2018 15:38	AR
Methylcyclohexane	BRL	3.5		ug/Kg-dry	259681	1	04/24/2018 15:38	AR
Methylene chloride	BRL	14		ug/Kg-dry	259681	1	04/24/2018 15:38	AR
o-Xylene	BRL	3.5		ug/Kg-dry	259681	1	04/24/2018 15:38	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-16-8
Project Name: Rheem	Collection Date: 4/17/2018 11:50:00 AM
Lab ID: 1804H65-014	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
Styrene	BRL	3.5		ug/Kg-dry	259681	1	04/24/2018 15:38	AR
Tetrachloroethene	BRL	3.5		ug/Kg-dry	259681	1	04/24/2018 15:38	AR
Toluene	BRL	3.5		ug/Kg-dry	259681	1	04/24/2018 15:38	AR
trans-1,2-Dichloroethene	BRL	3.5		ug/Kg-dry	259681	1	04/24/2018 15:38	AR
trans-1,3-Dichloropropene	BRL	3.5		ug/Kg-dry	259681	1	04/24/2018 15:38	AR
Trichloroethene	BRL	3.5		ug/Kg-dry	259681	1	04/24/2018 15:38	AR
Trichlorofluoromethane	BRL	3.5		ug/Kg-dry	259681	1	04/24/2018 15:38	AR
Vinyl chloride	BRL	7.1		ug/Kg-dry	259681	1	04/24/2018 15:38	AR
Surr: 4-Bromofluorobenzene	95.8	65-133		%REC	259681	1	04/24/2018 15:38	AR
Surr: Dibromofluoromethane	91.3	75.8-119		%REC	259681	1	04/24/2018 15:38	AR
Surr: Toluene-d8	101	78.3-120		%REC	259681	1	04/24/2018 15:38	AR
PERCENT MOISTURE D2216								
Percent Moisture	19.8	0		wt%	R368387	1	04/20/2018 17:00	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-16-12
Project Name: Rheem	Collection Date: 4/17/2018 11:55:00 AM
Lab ID: 1804H65-015	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	3.6		ug/Kg-dry	259681	1	04/24/2018 16:03	AR
1,1,2,2-Tetrachloroethane	BRL	3.6		ug/Kg-dry	259681	1	04/24/2018 16:03	AR
1,1,2-Trichloroethane	BRL	3.6		ug/Kg-dry	259681	1	04/24/2018 16:03	AR
1,1-Dichloroethane	BRL	3.6		ug/Kg-dry	259681	1	04/24/2018 16:03	AR
1,1-Dichloroethene	BRL	3.6		ug/Kg-dry	259681	1	04/24/2018 16:03	AR
1,2,4-Trichlorobenzene	BRL	3.6		ug/Kg-dry	259681	1	04/24/2018 16:03	AR
1,2-Dibromo-3-chloropropane	BRL	3.6		ug/Kg-dry	259681	1	04/24/2018 16:03	AR
1,2-Dibromoethane	BRL	3.6		ug/Kg-dry	259681	1	04/24/2018 16:03	AR
1,2-Dichlorobenzene	BRL	3.6		ug/Kg-dry	259681	1	04/24/2018 16:03	AR
1,2-Dichloroethane	BRL	3.6		ug/Kg-dry	259681	1	04/24/2018 16:03	AR
1,2-Dichloropropane	BRL	3.6		ug/Kg-dry	259681	1	04/24/2018 16:03	AR
1,3-Dichlorobenzene	BRL	3.6		ug/Kg-dry	259681	1	04/24/2018 16:03	AR
1,4-Dichlorobenzene	BRL	3.6		ug/Kg-dry	259681	1	04/24/2018 16:03	AR
2-Butanone	BRL	36		ug/Kg-dry	259681	1	04/24/2018 16:03	AR
2-Hexanone	BRL	7.1		ug/Kg-dry	259681	1	04/24/2018 16:03	AR
4-Methyl-2-pentanone	BRL	7.1		ug/Kg-dry	259681	1	04/24/2018 16:03	AR
Acetone	BRL	71		ug/Kg-dry	259681	1	04/24/2018 16:03	AR
Benzene	BRL	3.6		ug/Kg-dry	259681	1	04/24/2018 16:03	AR
Bromodichloromethane	BRL	3.6		ug/Kg-dry	259681	1	04/24/2018 16:03	AR
Bromoform	BRL	3.6		ug/Kg-dry	259681	1	04/24/2018 16:03	AR
Bromomethane	BRL	3.6		ug/Kg-dry	259681	1	04/24/2018 16:03	AR
Carbon disulfide	BRL	7.1		ug/Kg-dry	259681	1	04/24/2018 16:03	AR
Carbon tetrachloride	BRL	3.6		ug/Kg-dry	259681	1	04/24/2018 16:03	AR
Chlorobenzene	BRL	3.6		ug/Kg-dry	259681	1	04/24/2018 16:03	AR
Chloroethane	BRL	7.1		ug/Kg-dry	259681	1	04/24/2018 16:03	AR
Chloroform	BRL	3.6		ug/Kg-dry	259681	1	04/24/2018 16:03	AR
Chloromethane	BRL	7.1		ug/Kg-dry	259681	1	04/24/2018 16:03	AR
cis-1,2-Dichloroethene	BRL	3.6		ug/Kg-dry	259681	1	04/24/2018 16:03	AR
cis-1,3-Dichloropropene	BRL	3.6		ug/Kg-dry	259681	1	04/24/2018 16:03	AR
Cyclohexane	BRL	3.6		ug/Kg-dry	259681	1	04/24/2018 16:03	AR
Dibromochloromethane	BRL	3.6		ug/Kg-dry	259681	1	04/24/2018 16:03	AR
Dichlorodifluoromethane	BRL	7.1		ug/Kg-dry	259681	1	04/24/2018 16:03	AR
Ethylbenzene	BRL	3.6		ug/Kg-dry	259681	1	04/24/2018 16:03	AR
Freon-113	BRL	7.1		ug/Kg-dry	259681	1	04/24/2018 16:03	AR
Isopropylbenzene	BRL	3.6		ug/Kg-dry	259681	1	04/24/2018 16:03	AR
m,p-Xylene	BRL	3.6		ug/Kg-dry	259681	1	04/24/2018 16:03	AR
Methyl acetate	BRL	3.6		ug/Kg-dry	259681	1	04/24/2018 16:03	AR
Methyl tert-butyl ether	BRL	3.6		ug/Kg-dry	259681	1	04/24/2018 16:03	AR
Methylcyclohexane	BRL	3.6		ug/Kg-dry	259681	1	04/24/2018 16:03	AR
Methylene chloride	BRL	14		ug/Kg-dry	259681	1	04/24/2018 16:03	AR
o-Xylene	BRL	3.6		ug/Kg-dry	259681	1	04/24/2018 16:03	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-16-12
Project Name: Rheem	Collection Date: 4/17/2018 11:55:00 AM
Lab ID: 1804H65-015	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5035)			
Styrene	BRL	3.6		ug/Kg-dry	259681	1	04/24/2018 16:03	AR
Tetrachloroethene	BRL	3.6		ug/Kg-dry	259681	1	04/24/2018 16:03	AR
Toluene	BRL	3.6		ug/Kg-dry	259681	1	04/24/2018 16:03	AR
trans-1,2-Dichloroethene	BRL	3.6		ug/Kg-dry	259681	1	04/24/2018 16:03	AR
trans-1,3-Dichloropropene	BRL	3.6		ug/Kg-dry	259681	1	04/24/2018 16:03	AR
Trichloroethene	12	3.6		ug/Kg-dry	259681	1	04/24/2018 16:03	AR
Trichlorofluoromethane	BRL	3.6		ug/Kg-dry	259681	1	04/24/2018 16:03	AR
Vinyl chloride	BRL	7.1		ug/Kg-dry	259681	1	04/24/2018 16:03	AR
Surr: 4-Bromofluorobenzene	96.3	65-133		%REC	259681	1	04/24/2018 16:03	AR
Surr: Dibromofluoromethane	91.3	75.8-119		%REC	259681	1	04/24/2018 16:03	AR
Surr: Toluene-d8	100	78.3-120		%REC	259681	1	04/24/2018 16:03	AR
PERCENT MOISTURE D2216								
Percent Moisture	26.7	0		wt%	R368387	1	04/20/2018 17:00	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-17-0.5
Project Name: Rheem	Collection Date: 4/17/2018 1:10:00 PM
Lab ID: 1804H65-016	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	3.9		ug/Kg-dry	259681	1	04/24/2018 16:28	AR
1,1,2,2-Tetrachloroethane	BRL	3.9		ug/Kg-dry	259681	1	04/24/2018 16:28	AR
1,1,2-Trichloroethane	BRL	3.9		ug/Kg-dry	259681	1	04/24/2018 16:28	AR
1,1-Dichloroethane	BRL	3.9		ug/Kg-dry	259681	1	04/24/2018 16:28	AR
1,1-Dichloroethene	BRL	3.9		ug/Kg-dry	259681	1	04/24/2018 16:28	AR
1,2,4-Trichlorobenzene	BRL	3.9		ug/Kg-dry	259681	1	04/24/2018 16:28	AR
1,2-Dibromo-3-chloropropane	BRL	3.9		ug/Kg-dry	259681	1	04/24/2018 16:28	AR
1,2-Dibromoethane	BRL	3.9		ug/Kg-dry	259681	1	04/24/2018 16:28	AR
1,2-Dichlorobenzene	BRL	3.9		ug/Kg-dry	259681	1	04/24/2018 16:28	AR
1,2-Dichloroethane	BRL	3.9		ug/Kg-dry	259681	1	04/24/2018 16:28	AR
1,2-Dichloropropane	BRL	3.9		ug/Kg-dry	259681	1	04/24/2018 16:28	AR
1,3-Dichlorobenzene	BRL	3.9		ug/Kg-dry	259681	1	04/24/2018 16:28	AR
1,4-Dichlorobenzene	BRL	3.9		ug/Kg-dry	259681	1	04/24/2018 16:28	AR
2-Butanone	BRL	39		ug/Kg-dry	259681	1	04/24/2018 16:28	AR
2-Hexanone	BRL	7.9		ug/Kg-dry	259681	1	04/24/2018 16:28	AR
4-Methyl-2-pentanone	BRL	7.9		ug/Kg-dry	259681	1	04/24/2018 16:28	AR
Acetone	BRL	79		ug/Kg-dry	259681	1	04/24/2018 16:28	AR
Benzene	BRL	3.9		ug/Kg-dry	259681	1	04/24/2018 16:28	AR
Bromodichloromethane	BRL	3.9		ug/Kg-dry	259681	1	04/24/2018 16:28	AR
Bromoform	BRL	3.9		ug/Kg-dry	259681	1	04/24/2018 16:28	AR
Bromomethane	BRL	3.9		ug/Kg-dry	259681	1	04/24/2018 16:28	AR
Carbon disulfide	BRL	7.9		ug/Kg-dry	259681	1	04/24/2018 16:28	AR
Carbon tetrachloride	BRL	3.9		ug/Kg-dry	259681	1	04/24/2018 16:28	AR
Chlorobenzene	BRL	3.9		ug/Kg-dry	259681	1	04/24/2018 16:28	AR
Chloroethane	BRL	7.9		ug/Kg-dry	259681	1	04/24/2018 16:28	AR
Chloroform	BRL	3.9		ug/Kg-dry	259681	1	04/24/2018 16:28	AR
Chloromethane	BRL	7.9		ug/Kg-dry	259681	1	04/24/2018 16:28	AR
cis-1,2-Dichloroethene	BRL	3.9		ug/Kg-dry	259681	1	04/24/2018 16:28	AR
cis-1,3-Dichloropropene	BRL	3.9		ug/Kg-dry	259681	1	04/24/2018 16:28	AR
Cyclohexane	BRL	3.9		ug/Kg-dry	259681	1	04/24/2018 16:28	AR
Dibromochloromethane	BRL	3.9		ug/Kg-dry	259681	1	04/24/2018 16:28	AR
Dichlorodifluoromethane	BRL	7.9		ug/Kg-dry	259681	1	04/24/2018 16:28	AR
Ethylbenzene	BRL	3.9		ug/Kg-dry	259681	1	04/24/2018 16:28	AR
Freon-113	BRL	7.9		ug/Kg-dry	259681	1	04/24/2018 16:28	AR
Isopropylbenzene	BRL	3.9		ug/Kg-dry	259681	1	04/24/2018 16:28	AR
m,p-Xylene	BRL	3.9		ug/Kg-dry	259681	1	04/24/2018 16:28	AR
Methyl acetate	BRL	3.9		ug/Kg-dry	259681	1	04/24/2018 16:28	AR
Methyl tert-butyl ether	BRL	3.9		ug/Kg-dry	259681	1	04/24/2018 16:28	AR
Methylcyclohexane	BRL	3.9		ug/Kg-dry	259681	1	04/24/2018 16:28	AR
Methylene chloride	BRL	16		ug/Kg-dry	259681	1	04/24/2018 16:28	AR
o-Xylene	BRL	3.9		ug/Kg-dry	259681	1	04/24/2018 16:28	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-17-0.5
Project Name: Rheem	Collection Date: 4/17/2018 1:10:00 PM
Lab ID: 1804H65-016	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5035)			
Styrene	BRL	3.9		ug/Kg-dry	259681	1	04/24/2018 16:28	AR
Tetrachloroethene	BRL	3.9		ug/Kg-dry	259681	1	04/24/2018 16:28	AR
Toluene	BRL	3.9		ug/Kg-dry	259681	1	04/24/2018 16:28	AR
trans-1,2-Dichloroethene	BRL	3.9		ug/Kg-dry	259681	1	04/24/2018 16:28	AR
trans-1,3-Dichloropropene	BRL	3.9		ug/Kg-dry	259681	1	04/24/2018 16:28	AR
Trichloroethene	94	3.9		ug/Kg-dry	259681	1	04/24/2018 16:28	AR
Trichlorofluoromethane	BRL	3.9		ug/Kg-dry	259681	1	04/24/2018 16:28	AR
Vinyl chloride	BRL	7.9		ug/Kg-dry	259681	1	04/24/2018 16:28	AR
Surr: 4-Bromofluorobenzene	95.4	65-133		%REC	259681	1	04/24/2018 16:28	AR
Surr: Dibromofluoromethane	91.5	75.8-119		%REC	259681	1	04/24/2018 16:28	AR
Surr: Toluene-d8	101	78.3-120		%REC	259681	1	04/24/2018 16:28	AR
PERCENT MOISTURE D2216								
Percent Moisture	20.4	0		wt%	R368387	1	04/20/2018 17:00	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-17-1.5
Project Name: Rheem	Collection Date: 4/17/2018 1:15:00 PM
Lab ID: 1804H65-017	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	3.8		ug/Kg-dry	259681	1	04/25/2018 14:11	AR
1,1,2,2-Tetrachloroethane	BRL	3.8		ug/Kg-dry	259681	1	04/25/2018 14:11	AR
1,1,2-Trichloroethane	22	3.8		ug/Kg-dry	259681	1	04/25/2018 14:11	AR
1,1-Dichloroethane	BRL	3.8		ug/Kg-dry	259681	1	04/25/2018 14:11	AR
1,1-Dichloroethene	BRL	3.8		ug/Kg-dry	259681	1	04/25/2018 14:11	AR
1,2,4-Trichlorobenzene	BRL	3.8		ug/Kg-dry	259681	1	04/25/2018 14:11	AR
1,2-Dibromo-3-chloropropane	BRL	3.8		ug/Kg-dry	259681	1	04/25/2018 14:11	AR
1,2-Dibromoethane	BRL	3.8		ug/Kg-dry	259681	1	04/25/2018 14:11	AR
1,2-Dichlorobenzene	BRL	3.8		ug/Kg-dry	259681	1	04/25/2018 14:11	AR
1,2-Dichloroethane	BRL	3.8		ug/Kg-dry	259681	1	04/25/2018 14:11	AR
1,2-Dichloropropane	BRL	3.8		ug/Kg-dry	259681	1	04/25/2018 14:11	AR
1,3-Dichlorobenzene	BRL	3.8		ug/Kg-dry	259681	1	04/25/2018 14:11	AR
1,4-Dichlorobenzene	BRL	3.8		ug/Kg-dry	259681	1	04/25/2018 14:11	AR
2-Butanone	BRL	38		ug/Kg-dry	259681	1	04/25/2018 14:11	AR
2-Hexanone	BRL	7.7		ug/Kg-dry	259681	1	04/25/2018 14:11	AR
4-Methyl-2-pentanone	BRL	7.7		ug/Kg-dry	259681	1	04/25/2018 14:11	AR
Acetone	210	77		ug/Kg-dry	259681	1	04/25/2018 14:11	AR
Benzene	BRL	3.8		ug/Kg-dry	259681	1	04/25/2018 14:11	AR
Bromodichloromethane	BRL	3.8		ug/Kg-dry	259681	1	04/25/2018 14:11	AR
Bromoform	BRL	3.8		ug/Kg-dry	259681	1	04/25/2018 14:11	AR
Bromomethane	BRL	3.8		ug/Kg-dry	259681	1	04/25/2018 14:11	AR
Carbon disulfide	BRL	7.7		ug/Kg-dry	259681	1	04/25/2018 14:11	AR
Carbon tetrachloride	BRL	3.8		ug/Kg-dry	259681	1	04/25/2018 14:11	AR
Chlorobenzene	BRL	3.8		ug/Kg-dry	259681	1	04/25/2018 14:11	AR
Chloroethane	BRL	7.7		ug/Kg-dry	259681	1	04/25/2018 14:11	AR
Chloroform	BRL	3.8		ug/Kg-dry	259681	1	04/25/2018 14:11	AR
Chloromethane	BRL	7.7		ug/Kg-dry	259681	1	04/25/2018 14:11	AR
cis-1,2-Dichloroethene	4.9	3.8		ug/Kg-dry	259681	1	04/25/2018 14:11	AR
cis-1,3-Dichloropropene	BRL	3.8		ug/Kg-dry	259681	1	04/25/2018 14:11	AR
Cyclohexane	BRL	3.8		ug/Kg-dry	259681	1	04/25/2018 14:11	AR
Dibromochloromethane	BRL	3.8		ug/Kg-dry	259681	1	04/25/2018 14:11	AR
Dichlorodifluoromethane	BRL	7.7		ug/Kg-dry	259681	1	04/25/2018 14:11	AR
Ethylbenzene	BRL	3.8		ug/Kg-dry	259681	1	04/25/2018 14:11	AR
Freon-113	BRL	7.7		ug/Kg-dry	259681	1	04/25/2018 14:11	AR
Isopropylbenzene	BRL	3.8		ug/Kg-dry	259681	1	04/25/2018 14:11	AR
m,p-Xylene	BRL	3.8		ug/Kg-dry	259681	1	04/25/2018 14:11	AR
Methyl acetate	BRL	3.8		ug/Kg-dry	259681	1	04/25/2018 14:11	AR
Methyl tert-butyl ether	BRL	3.8		ug/Kg-dry	259681	1	04/25/2018 14:11	AR
Methylcyclohexane	BRL	3.8		ug/Kg-dry	259681	1	04/25/2018 14:11	AR
Methylene chloride	BRL	15		ug/Kg-dry	259681	1	04/25/2018 14:11	AR
o-Xylene	BRL	3.8		ug/Kg-dry	259681	1	04/25/2018 14:11	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-17-1.5
Project Name: Rheem	Collection Date: 4/17/2018 1:15:00 PM
Lab ID: 1804H65-017	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5035)			
Styrene	BRL	3.8		ug/Kg-dry	259681	1	04/25/2018 14:11	AR
Tetrachloroethene	7.7	3.8		ug/Kg-dry	259681	1	04/25/2018 14:11	AR
Toluene	BRL	3.8		ug/Kg-dry	259681	1	04/25/2018 14:11	AR
trans-1,2-Dichloroethene	BRL	3.8		ug/Kg-dry	259681	1	04/25/2018 14:11	AR
trans-1,3-Dichloropropene	BRL	3.8		ug/Kg-dry	259681	1	04/25/2018 14:11	AR
Trichloroethene	670	270		ug/Kg-dry	259788	50	04/25/2018 16:40	AR
Trichlorofluoromethane	BRL	3.8		ug/Kg-dry	259681	1	04/25/2018 14:11	AR
Vinyl chloride	BRL	7.7		ug/Kg-dry	259681	1	04/25/2018 14:11	AR
Surr: 4-Bromofluorobenzene	84.7	65-133		%REC	259788	50	04/25/2018 16:40	AR
Surr: 4-Bromofluorobenzene	86.3	65-133		%REC	259681	1	04/25/2018 14:11	AR
Surr: Dibromofluoromethane	102	75.8-119		%REC	259788	50	04/25/2018 16:40	AR
Surr: Dibromofluoromethane	93.1	75.8-119		%REC	259681	1	04/25/2018 14:11	AR
Surr: Toluene-d8	93.5	78.3-120		%REC	259788	50	04/25/2018 16:40	AR
Surr: Toluene-d8	97.7	78.3-120		%REC	259681	1	04/25/2018 14:11	AR
PERCENT MOISTURE D2216								
Percent Moisture	18.5	0		wt%	R368387	1	04/20/2018 17:00	NS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-17-4
Project Name: Rheem	Collection Date: 4/17/2018 1:20:00 PM
Lab ID: 1804H65-018	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	3.7		ug/Kg-dry	259681	1	04/24/2018 17:18	AR
1,1,2,2-Tetrachloroethane	BRL	3.7		ug/Kg-dry	259681	1	04/24/2018 17:18	AR
1,1,2-Trichloroethane	BRL	3.7		ug/Kg-dry	259681	1	04/24/2018 17:18	AR
1,1-Dichloroethane	BRL	3.7		ug/Kg-dry	259681	1	04/24/2018 17:18	AR
1,1-Dichloroethene	BRL	3.7		ug/Kg-dry	259681	1	04/24/2018 17:18	AR
1,2,4-Trichlorobenzene	BRL	3.7		ug/Kg-dry	259681	1	04/24/2018 17:18	AR
1,2-Dibromo-3-chloropropane	BRL	3.7		ug/Kg-dry	259681	1	04/24/2018 17:18	AR
1,2-Dibromoethane	BRL	3.7		ug/Kg-dry	259681	1	04/24/2018 17:18	AR
1,2-Dichlorobenzene	BRL	3.7		ug/Kg-dry	259681	1	04/24/2018 17:18	AR
1,2-Dichloroethane	BRL	3.7		ug/Kg-dry	259681	1	04/24/2018 17:18	AR
1,2-Dichloropropane	BRL	3.7		ug/Kg-dry	259681	1	04/24/2018 17:18	AR
1,3-Dichlorobenzene	BRL	3.7		ug/Kg-dry	259681	1	04/24/2018 17:18	AR
1,4-Dichlorobenzene	BRL	3.7		ug/Kg-dry	259681	1	04/24/2018 17:18	AR
2-Butanone	BRL	37		ug/Kg-dry	259681	1	04/24/2018 17:18	AR
2-Hexanone	BRL	7.4		ug/Kg-dry	259681	1	04/24/2018 17:18	AR
4-Methyl-2-pentanone	BRL	7.4		ug/Kg-dry	259681	1	04/24/2018 17:18	AR
Acetone	BRL	74		ug/Kg-dry	259681	1	04/24/2018 17:18	AR
Benzene	BRL	3.7		ug/Kg-dry	259681	1	04/24/2018 17:18	AR
Bromodichloromethane	BRL	3.7		ug/Kg-dry	259681	1	04/24/2018 17:18	AR
Bromoform	BRL	3.7		ug/Kg-dry	259681	1	04/24/2018 17:18	AR
Bromomethane	BRL	3.7		ug/Kg-dry	259681	1	04/24/2018 17:18	AR
Carbon disulfide	BRL	7.4		ug/Kg-dry	259681	1	04/24/2018 17:18	AR
Carbon tetrachloride	BRL	3.7		ug/Kg-dry	259681	1	04/24/2018 17:18	AR
Chlorobenzene	BRL	3.7		ug/Kg-dry	259681	1	04/24/2018 17:18	AR
Chloroethane	BRL	7.4		ug/Kg-dry	259681	1	04/24/2018 17:18	AR
Chloroform	BRL	3.7		ug/Kg-dry	259681	1	04/24/2018 17:18	AR
Chloromethane	BRL	7.4		ug/Kg-dry	259681	1	04/24/2018 17:18	AR
cis-1,2-Dichloroethene	BRL	3.7		ug/Kg-dry	259681	1	04/24/2018 17:18	AR
cis-1,3-Dichloropropene	BRL	3.7		ug/Kg-dry	259681	1	04/24/2018 17:18	AR
Cyclohexane	BRL	3.7		ug/Kg-dry	259681	1	04/24/2018 17:18	AR
Dibromochloromethane	BRL	3.7		ug/Kg-dry	259681	1	04/24/2018 17:18	AR
Dichlorodifluoromethane	BRL	7.4		ug/Kg-dry	259681	1	04/24/2018 17:18	AR
Ethylbenzene	BRL	3.7		ug/Kg-dry	259681	1	04/24/2018 17:18	AR
Freon-113	BRL	7.4		ug/Kg-dry	259681	1	04/24/2018 17:18	AR
Isopropylbenzene	BRL	3.7		ug/Kg-dry	259681	1	04/24/2018 17:18	AR
m,p-Xylene	BRL	3.7		ug/Kg-dry	259681	1	04/24/2018 17:18	AR
Methyl acetate	BRL	3.7		ug/Kg-dry	259681	1	04/24/2018 17:18	AR
Methyl tert-butyl ether	BRL	3.7		ug/Kg-dry	259681	1	04/24/2018 17:18	AR
Methylcyclohexane	BRL	3.7		ug/Kg-dry	259681	1	04/24/2018 17:18	AR
Methylene chloride	BRL	15		ug/Kg-dry	259681	1	04/24/2018 17:18	AR
o-Xylene	BRL	3.7		ug/Kg-dry	259681	1	04/24/2018 17:18	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-17-4
Project Name: Rheem	Collection Date: 4/17/2018 1:20:00 PM
Lab ID: 1804H65-018	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B			(SW5035)					
Styrene	BRL	3.7		ug/Kg-dry	259681	1	04/24/2018 17:18	AR
Tetrachloroethene	BRL	3.7		ug/Kg-dry	259681	1	04/24/2018 17:18	AR
Toluene	BRL	3.7		ug/Kg-dry	259681	1	04/24/2018 17:18	AR
trans-1,2-Dichloroethene	BRL	3.7		ug/Kg-dry	259681	1	04/24/2018 17:18	AR
trans-1,3-Dichloropropene	BRL	3.7		ug/Kg-dry	259681	1	04/24/2018 17:18	AR
Trichloroethene	19	3.7		ug/Kg-dry	259681	1	04/24/2018 17:18	AR
Trichlorofluoromethane	BRL	3.7		ug/Kg-dry	259681	1	04/24/2018 17:18	AR
Vinyl chloride	BRL	7.4		ug/Kg-dry	259681	1	04/24/2018 17:18	AR
Surr: 4-Bromofluorobenzene	94.4	65-133		%REC	259681	1	04/24/2018 17:18	AR
Surr: Dibromofluoromethane	92.3	75.8-119		%REC	259681	1	04/24/2018 17:18	AR
Surr: Toluene-d8	99.7	78.3-120		%REC	259681	1	04/24/2018 17:18	AR
PERCENT MOISTURE D2216								
Percent Moisture	23.0	0		wt%	R368387	1	04/20/2018 17:00	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-17-8
Project Name: Rheem	Collection Date: 4/17/2018 1:25:00 PM
Lab ID: 1804H65-019	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	4.0		ug/Kg-dry	259681	1	04/23/2018 19:52	AR
1,1,2,2-Tetrachloroethane	BRL	4.0		ug/Kg-dry	259681	1	04/23/2018 19:52	AR
1,1,2-Trichloroethane	BRL	4.0		ug/Kg-dry	259681	1	04/23/2018 19:52	AR
1,1-Dichloroethane	BRL	4.0		ug/Kg-dry	259681	1	04/23/2018 19:52	AR
1,1-Dichloroethene	BRL	4.0		ug/Kg-dry	259681	1	04/23/2018 19:52	AR
1,2,4-Trichlorobenzene	BRL	4.0		ug/Kg-dry	259681	1	04/23/2018 19:52	AR
1,2-Dibromo-3-chloropropane	BRL	4.0		ug/Kg-dry	259681	1	04/23/2018 19:52	AR
1,2-Dibromoethane	BRL	4.0		ug/Kg-dry	259681	1	04/23/2018 19:52	AR
1,2-Dichlorobenzene	BRL	4.0		ug/Kg-dry	259681	1	04/23/2018 19:52	AR
1,2-Dichloroethane	BRL	4.0		ug/Kg-dry	259681	1	04/23/2018 19:52	AR
1,2-Dichloropropane	BRL	4.0		ug/Kg-dry	259681	1	04/23/2018 19:52	AR
1,3-Dichlorobenzene	BRL	4.0		ug/Kg-dry	259681	1	04/23/2018 19:52	AR
1,4-Dichlorobenzene	BRL	4.0		ug/Kg-dry	259681	1	04/23/2018 19:52	AR
2-Butanone	BRL	40		ug/Kg-dry	259681	1	04/23/2018 19:52	AR
2-Hexanone	BRL	8.0		ug/Kg-dry	259681	1	04/23/2018 19:52	AR
4-Methyl-2-pentanone	BRL	8.0		ug/Kg-dry	259681	1	04/23/2018 19:52	AR
Acetone	BRL	80		ug/Kg-dry	259681	1	04/23/2018 19:52	AR
Benzene	BRL	4.0		ug/Kg-dry	259681	1	04/23/2018 19:52	AR
Bromodichloromethane	BRL	4.0		ug/Kg-dry	259681	1	04/23/2018 19:52	AR
Bromoform	BRL	4.0		ug/Kg-dry	259681	1	04/23/2018 19:52	AR
Bromomethane	BRL	4.0		ug/Kg-dry	259681	1	04/23/2018 19:52	AR
Carbon disulfide	BRL	8.0		ug/Kg-dry	259681	1	04/23/2018 19:52	AR
Carbon tetrachloride	BRL	4.0		ug/Kg-dry	259681	1	04/23/2018 19:52	AR
Chlorobenzene	BRL	4.0		ug/Kg-dry	259681	1	04/23/2018 19:52	AR
Chloroethane	BRL	8.0		ug/Kg-dry	259681	1	04/23/2018 19:52	AR
Chloroform	BRL	4.0		ug/Kg-dry	259681	1	04/23/2018 19:52	AR
Chloromethane	BRL	8.0		ug/Kg-dry	259681	1	04/23/2018 19:52	AR
cis-1,2-Dichloroethene	BRL	4.0		ug/Kg-dry	259681	1	04/23/2018 19:52	AR
cis-1,3-Dichloropropene	BRL	4.0		ug/Kg-dry	259681	1	04/23/2018 19:52	AR
Cyclohexane	BRL	4.0		ug/Kg-dry	259681	1	04/23/2018 19:52	AR
Dibromochloromethane	BRL	4.0		ug/Kg-dry	259681	1	04/23/2018 19:52	AR
Dichlorodifluoromethane	BRL	8.0		ug/Kg-dry	259681	1	04/23/2018 19:52	AR
Ethylbenzene	BRL	4.0		ug/Kg-dry	259681	1	04/23/2018 19:52	AR
Freon-113	BRL	8.0		ug/Kg-dry	259681	1	04/23/2018 19:52	AR
Isopropylbenzene	BRL	4.0		ug/Kg-dry	259681	1	04/23/2018 19:52	AR
m,p-Xylene	BRL	4.0		ug/Kg-dry	259681	1	04/23/2018 19:52	AR
Methyl acetate	BRL	4.0		ug/Kg-dry	259681	1	04/23/2018 19:52	AR
Methyl tert-butyl ether	BRL	4.0		ug/Kg-dry	259681	1	04/23/2018 19:52	AR
Methylcyclohexane	BRL	4.0		ug/Kg-dry	259681	1	04/23/2018 19:52	AR
Methylene chloride	BRL	16		ug/Kg-dry	259681	1	04/23/2018 19:52	AR
o-Xylene	BRL	4.0		ug/Kg-dry	259681	1	04/23/2018 19:52	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-17-8
Project Name: Rheem	Collection Date: 4/17/2018 1:25:00 PM
Lab ID: 1804H65-019	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5035)			
Styrene	BRL	4.0		ug/Kg-dry	259681	1	04/23/2018 19:52	AR
Tetrachloroethene	BRL	4.0		ug/Kg-dry	259681	1	04/23/2018 19:52	AR
Toluene	BRL	4.0		ug/Kg-dry	259681	1	04/23/2018 19:52	AR
trans-1,2-Dichloroethene	BRL	4.0		ug/Kg-dry	259681	1	04/23/2018 19:52	AR
trans-1,3-Dichloropropene	BRL	4.0		ug/Kg-dry	259681	1	04/23/2018 19:52	AR
Trichloroethene	4.2	4.0		ug/Kg-dry	259681	1	04/23/2018 19:52	AR
Trichlorofluoromethane	BRL	4.0		ug/Kg-dry	259681	1	04/23/2018 19:52	AR
Vinyl chloride	BRL	8.0		ug/Kg-dry	259681	1	04/23/2018 19:52	AR
Surr: 4-Bromofluorobenzene	95.3	65-133		%REC	259681	1	04/23/2018 19:52	AR
Surr: Dibromofluoromethane	89.8	75.8-119		%REC	259681	1	04/23/2018 19:52	AR
Surr: Toluene-d8	100	78.3-120		%REC	259681	1	04/23/2018 19:52	AR
PERCENT MOISTURE D2216								
Percent Moisture	17.1	0		wt%	R368387	1	04/20/2018 17:00	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-17-13
Project Name: Rheem	Collection Date: 4/17/2018 1:30:00 PM
Lab ID: 1804H65-020	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	3.6		ug/Kg-dry	259681	1	04/23/2018 20:17	AR
1,1,2,2-Tetrachloroethane	BRL	3.6		ug/Kg-dry	259681	1	04/23/2018 20:17	AR
1,1,2-Trichloroethane	10	3.6		ug/Kg-dry	259681	1	04/23/2018 20:17	AR
1,1-Dichloroethane	BRL	3.6		ug/Kg-dry	259681	1	04/23/2018 20:17	AR
1,1-Dichloroethene	BRL	3.6		ug/Kg-dry	259681	1	04/23/2018 20:17	AR
1,2,4-Trichlorobenzene	BRL	3.6		ug/Kg-dry	259681	1	04/23/2018 20:17	AR
1,2-Dibromo-3-chloropropane	BRL	3.6		ug/Kg-dry	259681	1	04/23/2018 20:17	AR
1,2-Dibromoethane	BRL	3.6		ug/Kg-dry	259681	1	04/23/2018 20:17	AR
1,2-Dichlorobenzene	BRL	3.6		ug/Kg-dry	259681	1	04/23/2018 20:17	AR
1,2-Dichloroethane	BRL	3.6		ug/Kg-dry	259681	1	04/23/2018 20:17	AR
1,2-Dichloropropane	BRL	3.6		ug/Kg-dry	259681	1	04/23/2018 20:17	AR
1,3-Dichlorobenzene	BRL	3.6		ug/Kg-dry	259681	1	04/23/2018 20:17	AR
1,4-Dichlorobenzene	BRL	3.6		ug/Kg-dry	259681	1	04/23/2018 20:17	AR
2-Butanone	BRL	36		ug/Kg-dry	259681	1	04/23/2018 20:17	AR
2-Hexanone	BRL	7.2		ug/Kg-dry	259681	1	04/23/2018 20:17	AR
4-Methyl-2-pentanone	BRL	7.2		ug/Kg-dry	259681	1	04/23/2018 20:17	AR
Acetone	BRL	72		ug/Kg-dry	259681	1	04/23/2018 20:17	AR
Benzene	BRL	3.6		ug/Kg-dry	259681	1	04/23/2018 20:17	AR
Bromodichloromethane	BRL	3.6		ug/Kg-dry	259681	1	04/23/2018 20:17	AR
Bromoform	BRL	3.6		ug/Kg-dry	259681	1	04/23/2018 20:17	AR
Bromomethane	BRL	3.6		ug/Kg-dry	259681	1	04/23/2018 20:17	AR
Carbon disulfide	BRL	7.2		ug/Kg-dry	259681	1	04/23/2018 20:17	AR
Carbon tetrachloride	BRL	3.6		ug/Kg-dry	259681	1	04/23/2018 20:17	AR
Chlorobenzene	BRL	3.6		ug/Kg-dry	259681	1	04/23/2018 20:17	AR
Chloroethane	BRL	7.2		ug/Kg-dry	259681	1	04/23/2018 20:17	AR
Chloroform	BRL	3.6		ug/Kg-dry	259681	1	04/23/2018 20:17	AR
Chloromethane	BRL	7.2		ug/Kg-dry	259681	1	04/23/2018 20:17	AR
cis-1,2-Dichloroethene	3.6	3.6		ug/Kg-dry	259681	1	04/23/2018 20:17	AR
cis-1,3-Dichloropropene	BRL	3.6		ug/Kg-dry	259681	1	04/23/2018 20:17	AR
Cyclohexane	BRL	3.6		ug/Kg-dry	259681	1	04/23/2018 20:17	AR
Dibromochloromethane	BRL	3.6		ug/Kg-dry	259681	1	04/23/2018 20:17	AR
Dichlorodifluoromethane	BRL	7.2		ug/Kg-dry	259681	1	04/23/2018 20:17	AR
Ethylbenzene	BRL	3.6		ug/Kg-dry	259681	1	04/23/2018 20:17	AR
Freon-113	BRL	7.2		ug/Kg-dry	259681	1	04/23/2018 20:17	AR
Isopropylbenzene	BRL	3.6		ug/Kg-dry	259681	1	04/23/2018 20:17	AR
m,p-Xylene	BRL	3.6		ug/Kg-dry	259681	1	04/23/2018 20:17	AR
Methyl acetate	BRL	3.6		ug/Kg-dry	259681	1	04/23/2018 20:17	AR
Methyl tert-butyl ether	BRL	3.6		ug/Kg-dry	259681	1	04/23/2018 20:17	AR
Methylcyclohexane	BRL	3.6		ug/Kg-dry	259681	1	04/23/2018 20:17	AR
Methylene chloride	BRL	14		ug/Kg-dry	259681	1	04/23/2018 20:17	AR
o-Xylene	BRL	3.6		ug/Kg-dry	259681	1	04/23/2018 20:17	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-17-13
Project Name: Rheem	Collection Date: 4/17/2018 1:30:00 PM
Lab ID: 1804H65-020	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5035)			
Styrene	BRL	3.6		ug/Kg-dry	259681	1	04/23/2018 20:17	AR
Tetrachloroethene	BRL	3.6		ug/Kg-dry	259681	1	04/23/2018 20:17	AR
Toluene	BRL	3.6		ug/Kg-dry	259681	1	04/23/2018 20:17	AR
trans-1,2-Dichloroethene	BRL	3.6		ug/Kg-dry	259681	1	04/23/2018 20:17	AR
trans-1,3-Dichloropropene	BRL	3.6		ug/Kg-dry	259681	1	04/23/2018 20:17	AR
Trichloroethene	45	3.6		ug/Kg-dry	259681	1	04/23/2018 20:17	AR
Trichlorofluoromethane	BRL	3.6		ug/Kg-dry	259681	1	04/23/2018 20:17	AR
Vinyl chloride	BRL	7.2		ug/Kg-dry	259681	1	04/23/2018 20:17	AR
Surr: 4-Bromofluorobenzene	97	65-133		%REC	259681	1	04/23/2018 20:17	AR
Surr: Dibromofluoromethane	92.2	75.8-119		%REC	259681	1	04/23/2018 20:17	AR
Surr: Toluene-d8	102	78.3-120		%REC	259681	1	04/23/2018 20:17	AR
PERCENT MOISTURE D2216								
Percent Moisture	22.8	0		wt%	R368387	1	04/20/2018 17:00	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-19-0.5
Project Name: Rheem	Collection Date: 4/17/2018 1:35:00 PM
Lab ID: 1804H65-021	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 20:42	AR
1,1,2,2-Tetrachloroethane	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 20:42	AR
1,1,2-Trichloroethane	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 20:42	AR
1,1-Dichloroethane	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 20:42	AR
1,1-Dichloroethene	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 20:42	AR
1,2,4-Trichlorobenzene	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 20:42	AR
1,2-Dibromo-3-chloropropane	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 20:42	AR
1,2-Dibromoethane	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 20:42	AR
1,2-Dichlorobenzene	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 20:42	AR
1,2-Dichloroethane	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 20:42	AR
1,2-Dichloropropane	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 20:42	AR
1,3-Dichlorobenzene	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 20:42	AR
1,4-Dichlorobenzene	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 20:42	AR
2-Butanone	BRL	37		ug/Kg-dry	259681	1	04/23/2018 20:42	AR
2-Hexanone	BRL	7.4		ug/Kg-dry	259681	1	04/23/2018 20:42	AR
4-Methyl-2-pentanone	BRL	7.4		ug/Kg-dry	259681	1	04/23/2018 20:42	AR
Acetone	90	74		ug/Kg-dry	259681	1	04/23/2018 20:42	AR
Benzene	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 20:42	AR
Bromodichloromethane	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 20:42	AR
Bromoform	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 20:42	AR
Bromomethane	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 20:42	AR
Carbon disulfide	BRL	7.4		ug/Kg-dry	259681	1	04/23/2018 20:42	AR
Carbon tetrachloride	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 20:42	AR
Chlorobenzene	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 20:42	AR
Chloroethane	BRL	7.4		ug/Kg-dry	259681	1	04/23/2018 20:42	AR
Chloroform	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 20:42	AR
Chloromethane	BRL	7.4		ug/Kg-dry	259681	1	04/23/2018 20:42	AR
cis-1,2-Dichloroethene	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 20:42	AR
cis-1,3-Dichloropropene	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 20:42	AR
Cyclohexane	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 20:42	AR
Dibromochloromethane	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 20:42	AR
Dichlorodifluoromethane	BRL	7.4		ug/Kg-dry	259681	1	04/23/2018 20:42	AR
Ethylbenzene	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 20:42	AR
Freon-113	BRL	7.4		ug/Kg-dry	259681	1	04/23/2018 20:42	AR
Isopropylbenzene	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 20:42	AR
m,p-Xylene	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 20:42	AR
Methyl acetate	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 20:42	AR
Methyl tert-butyl ether	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 20:42	AR
Methylcyclohexane	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 20:42	AR
Methylene chloride	BRL	15		ug/Kg-dry	259681	1	04/23/2018 20:42	AR
o-Xylene	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 20:42	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-19-0.5
Project Name: Rheem	Collection Date: 4/17/2018 1:35:00 PM
Lab ID: 1804H65-021	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
Styrene	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 20:42	AR
Tetrachloroethene	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 20:42	AR
Toluene	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 20:42	AR
trans-1,2-Dichloroethene	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 20:42	AR
trans-1,3-Dichloropropene	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 20:42	AR
Trichloroethene	570	180		ug/Kg-dry	259788	50	04/25/2018 17:05	AR
Trichlorofluoromethane	BRL	3.7		ug/Kg-dry	259681	1	04/23/2018 20:42	AR
Vinyl chloride	BRL	7.4		ug/Kg-dry	259681	1	04/23/2018 20:42	AR
Surr: 4-Bromofluorobenzene	84.5	65-133		%REC	259788	50	04/25/2018 17:05	AR
Surr: 4-Bromofluorobenzene	96.1	65-133		%REC	259681	1	04/23/2018 20:42	AR
Surr: Dibromofluoromethane	99.6	75.8-119		%REC	259788	50	04/25/2018 17:05	AR
Surr: Dibromofluoromethane	87.6	75.8-119		%REC	259681	1	04/23/2018 20:42	AR
Surr: Toluene-d8	93	78.3-120		%REC	259788	50	04/25/2018 17:05	AR
Surr: Toluene-d8	99.9	78.3-120		%REC	259681	1	04/23/2018 20:42	AR
PERCENT MOISTURE D2216								
Percent Moisture	12.0	0		wt%	R368387	1	04/20/2018 17:00	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-19-1.5
Project Name: Rheem	Collection Date: 4/17/2018 1:40:00 PM
Lab ID: 1804H65-022	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	3.4		ug/Kg-dry	259657	1	04/23/2018 10:57	AR
1,1,2,2-Tetrachloroethane	BRL	3.4		ug/Kg-dry	259657	1	04/23/2018 10:57	AR
1,1,2-Trichloroethane	BRL	3.4		ug/Kg-dry	259657	1	04/23/2018 10:57	AR
1,1-Dichloroethane	BRL	3.4		ug/Kg-dry	259657	1	04/23/2018 10:57	AR
1,1-Dichloroethene	BRL	3.4		ug/Kg-dry	259657	1	04/23/2018 10:57	AR
1,2,4-Trichlorobenzene	BRL	3.4		ug/Kg-dry	259657	1	04/23/2018 10:57	AR
1,2-Dibromo-3-chloropropane	BRL	3.4		ug/Kg-dry	259657	1	04/23/2018 10:57	AR
1,2-Dibromoethane	BRL	3.4		ug/Kg-dry	259657	1	04/23/2018 10:57	AR
1,2-Dichlorobenzene	BRL	3.4		ug/Kg-dry	259657	1	04/23/2018 10:57	AR
1,2-Dichloroethane	BRL	3.4		ug/Kg-dry	259657	1	04/23/2018 10:57	AR
1,2-Dichloropropane	BRL	3.4		ug/Kg-dry	259657	1	04/23/2018 10:57	AR
1,3-Dichlorobenzene	BRL	3.4		ug/Kg-dry	259657	1	04/23/2018 10:57	AR
1,4-Dichlorobenzene	BRL	3.4		ug/Kg-dry	259657	1	04/23/2018 10:57	AR
2-Butanone	BRL	34		ug/Kg-dry	259657	1	04/23/2018 10:57	AR
2-Hexanone	BRL	6.8		ug/Kg-dry	259657	1	04/23/2018 10:57	AR
4-Methyl-2-pentanone	BRL	6.8		ug/Kg-dry	259657	1	04/23/2018 10:57	AR
Acetone	BRL	68		ug/Kg-dry	259657	1	04/23/2018 10:57	AR
Benzene	BRL	3.4		ug/Kg-dry	259657	1	04/23/2018 10:57	AR
Bromodichloromethane	BRL	3.4		ug/Kg-dry	259657	1	04/23/2018 10:57	AR
Bromoform	BRL	3.4		ug/Kg-dry	259657	1	04/23/2018 10:57	AR
Bromomethane	BRL	3.4		ug/Kg-dry	259657	1	04/23/2018 10:57	AR
Carbon disulfide	BRL	6.8		ug/Kg-dry	259657	1	04/23/2018 10:57	AR
Carbon tetrachloride	BRL	3.4		ug/Kg-dry	259657	1	04/23/2018 10:57	AR
Chlorobenzene	BRL	3.4		ug/Kg-dry	259657	1	04/23/2018 10:57	AR
Chloroethane	BRL	6.8		ug/Kg-dry	259657	1	04/23/2018 10:57	AR
Chloroform	BRL	3.4		ug/Kg-dry	259657	1	04/23/2018 10:57	AR
Chloromethane	BRL	6.8		ug/Kg-dry	259657	1	04/23/2018 10:57	AR
cis-1,2-Dichloroethene	BRL	3.4		ug/Kg-dry	259657	1	04/23/2018 10:57	AR
cis-1,3-Dichloropropene	BRL	3.4		ug/Kg-dry	259657	1	04/23/2018 10:57	AR
Cyclohexane	BRL	3.4		ug/Kg-dry	259657	1	04/23/2018 10:57	AR
Dibromochloromethane	BRL	3.4		ug/Kg-dry	259657	1	04/23/2018 10:57	AR
Dichlorodifluoromethane	BRL	6.8		ug/Kg-dry	259657	1	04/23/2018 10:57	AR
Ethylbenzene	BRL	3.4		ug/Kg-dry	259657	1	04/23/2018 10:57	AR
Freon-113	BRL	6.8		ug/Kg-dry	259657	1	04/23/2018 10:57	AR
Isopropylbenzene	BRL	3.4		ug/Kg-dry	259657	1	04/23/2018 10:57	AR
m,p-Xylene	BRL	3.4		ug/Kg-dry	259657	1	04/23/2018 10:57	AR
Methyl acetate	BRL	3.4		ug/Kg-dry	259657	1	04/23/2018 10:57	AR
Methyl tert-butyl ether	BRL	3.4		ug/Kg-dry	259657	1	04/23/2018 10:57	AR
Methylcyclohexane	BRL	3.4		ug/Kg-dry	259657	1	04/23/2018 10:57	AR
Methylene chloride	BRL	14		ug/Kg-dry	259657	1	04/23/2018 10:57	AR
o-Xylene	BRL	3.4		ug/Kg-dry	259657	1	04/23/2018 10:57	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-19-1.5
Project Name: Rheem	Collection Date: 4/17/2018 1:40:00 PM
Lab ID: 1804H65-022	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5035)			
Styrene	BRL	3.4		ug/Kg-dry	259657	1	04/23/2018 10:57	AR
Tetrachloroethene	BRL	3.4		ug/Kg-dry	259657	1	04/23/2018 10:57	AR
Toluene	BRL	3.4		ug/Kg-dry	259657	1	04/23/2018 10:57	AR
trans-1,2-Dichloroethene	BRL	3.4		ug/Kg-dry	259657	1	04/23/2018 10:57	AR
trans-1,3-Dichloropropene	BRL	3.4		ug/Kg-dry	259657	1	04/23/2018 10:57	AR
Trichloroethene	16	3.4		ug/Kg-dry	259657	1	04/23/2018 10:57	AR
Trichlorofluoromethane	BRL	3.4		ug/Kg-dry	259657	1	04/23/2018 10:57	AR
Vinyl chloride	BRL	6.8		ug/Kg-dry	259657	1	04/23/2018 10:57	AR
Surr: 4-Bromofluorobenzene	92.9	65-133		%REC	259657	1	04/23/2018 10:57	AR
Surr: Dibromofluoromethane	108	75.8-119		%REC	259657	1	04/23/2018 10:57	AR
Surr: Toluene-d8	105	78.3-120		%REC	259657	1	04/23/2018 10:57	AR
PERCENT MOISTURE D2216								
Percent Moisture	15.6	0		wt%	R368387	1	04/20/2018 17:00	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-19-4
Project Name: Rheem	Collection Date: 4/17/2018 1:45:00 PM
Lab ID: 1804H65-023	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	4.0		ug/Kg-dry	259657	1	04/23/2018 13:09	AR
1,1,2,2-Tetrachloroethane	BRL	4.0		ug/Kg-dry	259657	1	04/23/2018 13:09	AR
1,1,2-Trichloroethane	BRL	4.0		ug/Kg-dry	259657	1	04/23/2018 13:09	AR
1,1-Dichloroethane	BRL	4.0		ug/Kg-dry	259657	1	04/23/2018 13:09	AR
1,1-Dichloroethene	BRL	4.0		ug/Kg-dry	259657	1	04/23/2018 13:09	AR
1,2,4-Trichlorobenzene	BRL	4.0		ug/Kg-dry	259657	1	04/23/2018 13:09	AR
1,2-Dibromo-3-chloropropane	BRL	4.0		ug/Kg-dry	259657	1	04/23/2018 13:09	AR
1,2-Dibromoethane	BRL	4.0		ug/Kg-dry	259657	1	04/23/2018 13:09	AR
1,2-Dichlorobenzene	BRL	4.0		ug/Kg-dry	259657	1	04/23/2018 13:09	AR
1,2-Dichloroethane	BRL	4.0		ug/Kg-dry	259657	1	04/23/2018 13:09	AR
1,2-Dichloropropane	BRL	4.0		ug/Kg-dry	259657	1	04/23/2018 13:09	AR
1,3-Dichlorobenzene	BRL	4.0		ug/Kg-dry	259657	1	04/23/2018 13:09	AR
1,4-Dichlorobenzene	BRL	4.0		ug/Kg-dry	259657	1	04/23/2018 13:09	AR
2-Butanone	BRL	40		ug/Kg-dry	259657	1	04/23/2018 13:09	AR
2-Hexanone	BRL	8.0		ug/Kg-dry	259657	1	04/23/2018 13:09	AR
4-Methyl-2-pentanone	BRL	8.0		ug/Kg-dry	259657	1	04/23/2018 13:09	AR
Acetone	BRL	80		ug/Kg-dry	259657	1	04/23/2018 13:09	AR
Benzene	BRL	4.0		ug/Kg-dry	259657	1	04/23/2018 13:09	AR
Bromodichloromethane	BRL	4.0		ug/Kg-dry	259657	1	04/23/2018 13:09	AR
Bromoform	BRL	4.0		ug/Kg-dry	259657	1	04/23/2018 13:09	AR
Bromomethane	BRL	4.0		ug/Kg-dry	259657	1	04/23/2018 13:09	AR
Carbon disulfide	BRL	8.0		ug/Kg-dry	259657	1	04/23/2018 13:09	AR
Carbon tetrachloride	BRL	4.0		ug/Kg-dry	259657	1	04/23/2018 13:09	AR
Chlorobenzene	BRL	4.0		ug/Kg-dry	259657	1	04/23/2018 13:09	AR
Chloroethane	BRL	8.0		ug/Kg-dry	259657	1	04/23/2018 13:09	AR
Chloroform	BRL	4.0		ug/Kg-dry	259657	1	04/23/2018 13:09	AR
Chloromethane	BRL	8.0		ug/Kg-dry	259657	1	04/23/2018 13:09	AR
cis-1,2-Dichloroethene	BRL	4.0		ug/Kg-dry	259657	1	04/23/2018 13:09	AR
cis-1,3-Dichloropropene	BRL	4.0		ug/Kg-dry	259657	1	04/23/2018 13:09	AR
Cyclohexane	BRL	4.0		ug/Kg-dry	259657	1	04/23/2018 13:09	AR
Dibromochloromethane	BRL	4.0		ug/Kg-dry	259657	1	04/23/2018 13:09	AR
Dichlorodifluoromethane	BRL	8.0		ug/Kg-dry	259657	1	04/23/2018 13:09	AR
Ethylbenzene	BRL	4.0		ug/Kg-dry	259657	1	04/23/2018 13:09	AR
Freon-113	BRL	8.0		ug/Kg-dry	259657	1	04/23/2018 13:09	AR
Isopropylbenzene	BRL	4.0		ug/Kg-dry	259657	1	04/23/2018 13:09	AR
m,p-Xylene	BRL	4.0		ug/Kg-dry	259657	1	04/23/2018 13:09	AR
Methyl acetate	BRL	4.0		ug/Kg-dry	259657	1	04/23/2018 13:09	AR
Methyl tert-butyl ether	BRL	4.0		ug/Kg-dry	259657	1	04/23/2018 13:09	AR
Methylcyclohexane	BRL	4.0		ug/Kg-dry	259657	1	04/23/2018 13:09	AR
Methylene chloride	BRL	16		ug/Kg-dry	259657	1	04/23/2018 13:09	AR
o-Xylene	BRL	4.0		ug/Kg-dry	259657	1	04/23/2018 13:09	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-19-4
Project Name: Rheem	Collection Date: 4/17/2018 1:45:00 PM
Lab ID: 1804H65-023	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
Styrene	BRL	4.0		ug/Kg-dry	259657	1	04/23/2018 13:09	AR
Tetrachloroethene	BRL	4.0		ug/Kg-dry	259657	1	04/23/2018 13:09	AR
Toluene	BRL	4.0		ug/Kg-dry	259657	1	04/23/2018 13:09	AR
trans-1,2-Dichloroethene	BRL	4.0		ug/Kg-dry	259657	1	04/23/2018 13:09	AR
trans-1,3-Dichloropropene	BRL	4.0		ug/Kg-dry	259657	1	04/23/2018 13:09	AR
Trichloroethene	BRL	4.0		ug/Kg-dry	259657	1	04/23/2018 13:09	AR
Trichlorofluoromethane	BRL	4.0		ug/Kg-dry	259657	1	04/23/2018 13:09	AR
Vinyl chloride	BRL	8.0		ug/Kg-dry	259657	1	04/23/2018 13:09	AR
Surr: 4-Bromofluorobenzene	94.8	65-133		%REC	259657	1	04/23/2018 13:09	AR
Surr: Dibromofluoromethane	110	75.8-119		%REC	259657	1	04/23/2018 13:09	AR
Surr: Toluene-d8	109	78.3-120		%REC	259657	1	04/23/2018 13:09	AR
PERCENT MOISTURE D2216								
Percent Moisture	22.0	0		wt%	R368387	1	04/20/2018 17:00	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-19-8
Project Name: Rheem	Collection Date: 4/17/2018 1:50:00 PM
Lab ID: 1804H65-024	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	2.8		ug/Kg-dry	259657	1	04/23/2018 14:02	AR
1,1,2,2-Tetrachloroethane	BRL	2.8		ug/Kg-dry	259657	1	04/23/2018 14:02	AR
1,1,2-Trichloroethane	BRL	2.8		ug/Kg-dry	259657	1	04/23/2018 14:02	AR
1,1-Dichloroethane	BRL	2.8		ug/Kg-dry	259657	1	04/23/2018 14:02	AR
1,1-Dichloroethene	BRL	2.8		ug/Kg-dry	259657	1	04/23/2018 14:02	AR
1,2,4-Trichlorobenzene	BRL	2.8		ug/Kg-dry	259657	1	04/23/2018 14:02	AR
1,2-Dibromo-3-chloropropane	BRL	2.8		ug/Kg-dry	259657	1	04/23/2018 14:02	AR
1,2-Dibromoethane	BRL	2.8		ug/Kg-dry	259657	1	04/23/2018 14:02	AR
1,2-Dichlorobenzene	BRL	2.8		ug/Kg-dry	259657	1	04/23/2018 14:02	AR
1,2-Dichloroethane	BRL	2.8		ug/Kg-dry	259657	1	04/23/2018 14:02	AR
1,2-Dichloropropane	BRL	2.8		ug/Kg-dry	259657	1	04/23/2018 14:02	AR
1,3-Dichlorobenzene	BRL	2.8		ug/Kg-dry	259657	1	04/23/2018 14:02	AR
1,4-Dichlorobenzene	BRL	2.8		ug/Kg-dry	259657	1	04/23/2018 14:02	AR
2-Butanone	BRL	28		ug/Kg-dry	259657	1	04/23/2018 14:02	AR
2-Hexanone	BRL	5.6		ug/Kg-dry	259657	1	04/23/2018 14:02	AR
4-Methyl-2-pentanone	BRL	5.6		ug/Kg-dry	259657	1	04/23/2018 14:02	AR
Acetone	BRL	56		ug/Kg-dry	259657	1	04/23/2018 14:02	AR
Benzene	BRL	2.8		ug/Kg-dry	259657	1	04/23/2018 14:02	AR
Bromodichloromethane	BRL	2.8		ug/Kg-dry	259657	1	04/23/2018 14:02	AR
Bromoform	BRL	2.8		ug/Kg-dry	259657	1	04/23/2018 14:02	AR
Bromomethane	BRL	2.8		ug/Kg-dry	259657	1	04/23/2018 14:02	AR
Carbon disulfide	BRL	5.6		ug/Kg-dry	259657	1	04/23/2018 14:02	AR
Carbon tetrachloride	BRL	2.8		ug/Kg-dry	259657	1	04/23/2018 14:02	AR
Chlorobenzene	BRL	2.8		ug/Kg-dry	259657	1	04/23/2018 14:02	AR
Chloroethane	BRL	5.6		ug/Kg-dry	259657	1	04/23/2018 14:02	AR
Chloroform	BRL	2.8		ug/Kg-dry	259657	1	04/23/2018 14:02	AR
Chloromethane	BRL	5.6		ug/Kg-dry	259657	1	04/23/2018 14:02	AR
cis-1,2-Dichloroethene	BRL	2.8		ug/Kg-dry	259657	1	04/23/2018 14:02	AR
cis-1,3-Dichloropropene	BRL	2.8		ug/Kg-dry	259657	1	04/23/2018 14:02	AR
Cyclohexane	BRL	2.8		ug/Kg-dry	259657	1	04/23/2018 14:02	AR
Dibromochloromethane	BRL	2.8		ug/Kg-dry	259657	1	04/23/2018 14:02	AR
Dichlorodifluoromethane	BRL	5.6		ug/Kg-dry	259657	1	04/23/2018 14:02	AR
Ethylbenzene	BRL	2.8		ug/Kg-dry	259657	1	04/23/2018 14:02	AR
Freon-113	BRL	5.6		ug/Kg-dry	259657	1	04/23/2018 14:02	AR
Isopropylbenzene	BRL	2.8		ug/Kg-dry	259657	1	04/23/2018 14:02	AR
m,p-Xylene	BRL	2.8		ug/Kg-dry	259657	1	04/23/2018 14:02	AR
Methyl acetate	BRL	2.8		ug/Kg-dry	259657	1	04/23/2018 14:02	AR
Methyl tert-butyl ether	BRL	2.8		ug/Kg-dry	259657	1	04/23/2018 14:02	AR
Methylcyclohexane	BRL	2.8		ug/Kg-dry	259657	1	04/23/2018 14:02	AR
Methylene chloride	BRL	11		ug/Kg-dry	259657	1	04/23/2018 14:02	AR
o-Xylene	BRL	2.8		ug/Kg-dry	259657	1	04/23/2018 14:02	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-19-8
Project Name: Rheem	Collection Date: 4/17/2018 1:50:00 PM
Lab ID: 1804H65-024	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B			(SW5035)					
Styrene	BRL	2.8		ug/Kg-dry	259657	1	04/23/2018 14:02	AR
Tetrachloroethene	BRL	2.8		ug/Kg-dry	259657	1	04/23/2018 14:02	AR
Toluene	BRL	2.8		ug/Kg-dry	259657	1	04/23/2018 14:02	AR
trans-1,2-Dichloroethene	BRL	2.8		ug/Kg-dry	259657	1	04/23/2018 14:02	AR
trans-1,3-Dichloropropene	BRL	2.8		ug/Kg-dry	259657	1	04/23/2018 14:02	AR
Trichloroethene	3.8	2.8		ug/Kg-dry	259657	1	04/23/2018 14:02	AR
Trichlorofluoromethane	BRL	2.8		ug/Kg-dry	259657	1	04/23/2018 14:02	AR
Vinyl chloride	BRL	5.6		ug/Kg-dry	259657	1	04/23/2018 14:02	AR
Surr: 4-Bromofluorobenzene	92.7	65-133		%REC	259657	1	04/23/2018 14:02	AR
Surr: Dibromofluoromethane	109	75.8-119		%REC	259657	1	04/23/2018 14:02	AR
Surr: Toluene-d8	109	78.3-120		%REC	259657	1	04/23/2018 14:02	AR
PERCENT MOISTURE D2216								
Percent Moisture	23.4	0		wt%	R368387	1	04/20/2018 17:00	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-19-13
Project Name: Rheem	Collection Date: 4/17/2018 1:55:00 PM
Lab ID: 1804H65-025	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 14:28	AR
1,1,2,2-Tetrachloroethane	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 14:28	AR
1,1,2-Trichloroethane	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 14:28	AR
1,1-Dichloroethane	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 14:28	AR
1,1-Dichloroethene	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 14:28	AR
1,2,4-Trichlorobenzene	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 14:28	AR
1,2-Dibromo-3-chloropropane	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 14:28	AR
1,2-Dibromoethane	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 14:28	AR
1,2-Dichlorobenzene	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 14:28	AR
1,2-Dichloroethane	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 14:28	AR
1,2-Dichloropropane	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 14:28	AR
1,3-Dichlorobenzene	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 14:28	AR
1,4-Dichlorobenzene	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 14:28	AR
2-Butanone	BRL	37		ug/Kg-dry	259657	1	04/23/2018 14:28	AR
2-Hexanone	BRL	7.4		ug/Kg-dry	259657	1	04/23/2018 14:28	AR
4-Methyl-2-pentanone	BRL	7.4		ug/Kg-dry	259657	1	04/23/2018 14:28	AR
Acetone	BRL	74		ug/Kg-dry	259657	1	04/23/2018 14:28	AR
Benzene	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 14:28	AR
Bromodichloromethane	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 14:28	AR
Bromoform	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 14:28	AR
Bromomethane	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 14:28	AR
Carbon disulfide	BRL	7.4		ug/Kg-dry	259657	1	04/23/2018 14:28	AR
Carbon tetrachloride	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 14:28	AR
Chlorobenzene	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 14:28	AR
Chloroethane	BRL	7.4		ug/Kg-dry	259657	1	04/23/2018 14:28	AR
Chloroform	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 14:28	AR
Chloromethane	BRL	7.4		ug/Kg-dry	259657	1	04/23/2018 14:28	AR
cis-1,2-Dichloroethene	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 14:28	AR
cis-1,3-Dichloropropene	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 14:28	AR
Cyclohexane	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 14:28	AR
Dibromochloromethane	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 14:28	AR
Dichlorodifluoromethane	BRL	7.4		ug/Kg-dry	259657	1	04/23/2018 14:28	AR
Ethylbenzene	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 14:28	AR
Freon-113	BRL	7.4		ug/Kg-dry	259657	1	04/23/2018 14:28	AR
Isopropylbenzene	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 14:28	AR
m,p-Xylene	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 14:28	AR
Methyl acetate	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 14:28	AR
Methyl tert-butyl ether	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 14:28	AR
Methylcyclohexane	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 14:28	AR
Methylene chloride	BRL	15		ug/Kg-dry	259657	1	04/23/2018 14:28	AR
o-Xylene	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 14:28	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-19-13
Project Name: Rheem	Collection Date: 4/17/2018 1:55:00 PM
Lab ID: 1804H65-025	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5035)			
Styrene	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 14:28	AR
Tetrachloroethene	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 14:28	AR
Toluene	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 14:28	AR
trans-1,2-Dichloroethene	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 14:28	AR
trans-1,3-Dichloropropene	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 14:28	AR
Trichloroethene	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 14:28	AR
Trichlorofluoromethane	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 14:28	AR
Vinyl chloride	BRL	7.4		ug/Kg-dry	259657	1	04/23/2018 14:28	AR
Surr: 4-Bromofluorobenzene	90.6	65-133		%REC	259657	1	04/23/2018 14:28	AR
Surr: Dibromofluoromethane	120	75.8-119	S	%REC	259657	1	04/23/2018 14:28	AR
Surr: Toluene-d8	102	78.3-120		%REC	259657	1	04/23/2018 14:28	AR
PERCENT MOISTURE D2216								
Percent Moisture	18.3	0		wt%	R368387	1	04/20/2018 17:00	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-18-0.5
Project Name: Rheem	Collection Date: 4/17/2018 2:00:00 PM
Lab ID: 1804H65-026	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 14:54	AR
1,1,2,2-Tetrachloroethane	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 14:54	AR
1,1,2-Trichloroethane	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 14:54	AR
1,1-Dichloroethane	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 14:54	AR
1,1-Dichloroethene	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 14:54	AR
1,2,4-Trichlorobenzene	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 14:54	AR
1,2-Dibromo-3-chloropropane	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 14:54	AR
1,2-Dibromoethane	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 14:54	AR
1,2-Dichlorobenzene	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 14:54	AR
1,2-Dichloroethane	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 14:54	AR
1,2-Dichloropropane	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 14:54	AR
1,3-Dichlorobenzene	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 14:54	AR
1,4-Dichlorobenzene	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 14:54	AR
2-Butanone	BRL	37		ug/Kg-dry	259657	1	04/23/2018 14:54	AR
2-Hexanone	BRL	7.3		ug/Kg-dry	259657	1	04/23/2018 14:54	AR
4-Methyl-2-pentanone	BRL	7.3		ug/Kg-dry	259657	1	04/23/2018 14:54	AR
Acetone	120	73		ug/Kg-dry	259657	1	04/23/2018 14:54	AR
Benzene	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 14:54	AR
Bromodichloromethane	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 14:54	AR
Bromoform	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 14:54	AR
Bromomethane	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 14:54	AR
Carbon disulfide	BRL	7.3		ug/Kg-dry	259657	1	04/23/2018 14:54	AR
Carbon tetrachloride	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 14:54	AR
Chlorobenzene	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 14:54	AR
Chloroethane	BRL	7.3		ug/Kg-dry	259657	1	04/23/2018 14:54	AR
Chloroform	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 14:54	AR
Chloromethane	BRL	7.3		ug/Kg-dry	259657	1	04/23/2018 14:54	AR
cis-1,2-Dichloroethene	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 14:54	AR
cis-1,3-Dichloropropene	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 14:54	AR
Cyclohexane	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 14:54	AR
Dibromochloromethane	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 14:54	AR
Dichlorodifluoromethane	BRL	7.3		ug/Kg-dry	259657	1	04/23/2018 14:54	AR
Ethylbenzene	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 14:54	AR
Freon-113	BRL	7.3		ug/Kg-dry	259657	1	04/23/2018 14:54	AR
Isopropylbenzene	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 14:54	AR
m,p-Xylene	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 14:54	AR
Methyl acetate	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 14:54	AR
Methyl tert-butyl ether	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 14:54	AR
Methylcyclohexane	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 14:54	AR
Methylene chloride	BRL	15		ug/Kg-dry	259657	1	04/23/2018 14:54	AR
o-Xylene	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 14:54	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-18-0.5
Project Name: Rheem	Collection Date: 4/17/2018 2:00:00 PM
Lab ID: 1804H65-026	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B			(SW5035)					
Styrene	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 14:54	AR
Tetrachloroethene	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 14:54	AR
Toluene	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 14:54	AR
trans-1,2-Dichloroethene	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 14:54	AR
trans-1,3-Dichloropropene	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 14:54	AR
Trichloroethene	950	160		ug/Kg-dry	259788	50	04/25/2018 17:31	AR
Trichlorofluoromethane	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 14:54	AR
Vinyl chloride	BRL	7.3		ug/Kg-dry	259657	1	04/23/2018 14:54	AR
Surr: 4-Bromofluorobenzene	82.3	65-133		%REC	259788	50	04/25/2018 17:31	AR
Surr: 4-Bromofluorobenzene	88.7	65-133		%REC	259657	1	04/23/2018 14:54	AR
Surr: Dibromofluoromethane	102	75.8-119		%REC	259788	50	04/25/2018 17:31	AR
Surr: Dibromofluoromethane	113	75.8-119		%REC	259657	1	04/23/2018 14:54	AR
Surr: Toluene-d8	95.4	78.3-120		%REC	259788	50	04/25/2018 17:31	AR
Surr: Toluene-d8	107	78.3-120		%REC	259657	1	04/23/2018 14:54	AR
PERCENT MOISTURE D2216								
Percent Moisture	10.8	0		wt%	R368387	1	04/20/2018 17:00	NS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-18-1.5
Project Name: Rheem	Collection Date: 4/17/2018 2:05:00 PM
Lab ID: 1804H65-027	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	3.1		ug/Kg-dry	259657	1	04/23/2018 15:21	AR
1,1,2,2-Tetrachloroethane	BRL	3.1		ug/Kg-dry	259657	1	04/23/2018 15:21	AR
1,1,2-Trichloroethane	BRL	3.1		ug/Kg-dry	259657	1	04/23/2018 15:21	AR
1,1-Dichloroethane	BRL	3.1		ug/Kg-dry	259657	1	04/23/2018 15:21	AR
1,1-Dichloroethene	BRL	3.1		ug/Kg-dry	259657	1	04/23/2018 15:21	AR
1,2,4-Trichlorobenzene	BRL	3.1		ug/Kg-dry	259657	1	04/23/2018 15:21	AR
1,2-Dibromo-3-chloropropane	BRL	3.1		ug/Kg-dry	259657	1	04/23/2018 15:21	AR
1,2-Dibromoethane	BRL	3.1		ug/Kg-dry	259657	1	04/23/2018 15:21	AR
1,2-Dichlorobenzene	BRL	3.1		ug/Kg-dry	259657	1	04/23/2018 15:21	AR
1,2-Dichloroethane	BRL	3.1		ug/Kg-dry	259657	1	04/23/2018 15:21	AR
1,2-Dichloropropane	BRL	3.1		ug/Kg-dry	259657	1	04/23/2018 15:21	AR
1,3-Dichlorobenzene	BRL	3.1		ug/Kg-dry	259657	1	04/23/2018 15:21	AR
1,4-Dichlorobenzene	BRL	3.1		ug/Kg-dry	259657	1	04/23/2018 15:21	AR
2-Butanone	BRL	31		ug/Kg-dry	259657	1	04/23/2018 15:21	AR
2-Hexanone	BRL	6.1		ug/Kg-dry	259657	1	04/23/2018 15:21	AR
4-Methyl-2-pentanone	BRL	6.1		ug/Kg-dry	259657	1	04/23/2018 15:21	AR
Acetone	71	61		ug/Kg-dry	259657	1	04/23/2018 15:21	AR
Benzene	BRL	3.1		ug/Kg-dry	259657	1	04/23/2018 15:21	AR
Bromodichloromethane	BRL	3.1		ug/Kg-dry	259657	1	04/23/2018 15:21	AR
Bromoform	BRL	3.1		ug/Kg-dry	259657	1	04/23/2018 15:21	AR
Bromomethane	BRL	3.1		ug/Kg-dry	259657	1	04/23/2018 15:21	AR
Carbon disulfide	BRL	6.1		ug/Kg-dry	259657	1	04/23/2018 15:21	AR
Carbon tetrachloride	BRL	3.1		ug/Kg-dry	259657	1	04/23/2018 15:21	AR
Chlorobenzene	BRL	3.1		ug/Kg-dry	259657	1	04/23/2018 15:21	AR
Chloroethane	BRL	6.1		ug/Kg-dry	259657	1	04/23/2018 15:21	AR
Chloroform	BRL	3.1		ug/Kg-dry	259657	1	04/23/2018 15:21	AR
Chloromethane	BRL	6.1		ug/Kg-dry	259657	1	04/23/2018 15:21	AR
cis-1,2-Dichloroethene	BRL	3.1		ug/Kg-dry	259657	1	04/23/2018 15:21	AR
cis-1,3-Dichloropropene	BRL	3.1		ug/Kg-dry	259657	1	04/23/2018 15:21	AR
Cyclohexane	BRL	3.1		ug/Kg-dry	259657	1	04/23/2018 15:21	AR
Dibromochloromethane	BRL	3.1		ug/Kg-dry	259657	1	04/23/2018 15:21	AR
Dichlorodifluoromethane	BRL	6.1		ug/Kg-dry	259657	1	04/23/2018 15:21	AR
Ethylbenzene	BRL	3.1		ug/Kg-dry	259657	1	04/23/2018 15:21	AR
Freon-113	BRL	6.1		ug/Kg-dry	259657	1	04/23/2018 15:21	AR
Isopropylbenzene	BRL	3.1		ug/Kg-dry	259657	1	04/23/2018 15:21	AR
m,p-Xylene	BRL	3.1		ug/Kg-dry	259657	1	04/23/2018 15:21	AR
Methyl acetate	BRL	3.1		ug/Kg-dry	259657	1	04/23/2018 15:21	AR
Methyl tert-butyl ether	BRL	3.1		ug/Kg-dry	259657	1	04/23/2018 15:21	AR
Methylcyclohexane	BRL	3.1		ug/Kg-dry	259657	1	04/23/2018 15:21	AR
Methylene chloride	BRL	12		ug/Kg-dry	259657	1	04/23/2018 15:21	AR
o-Xylene	BRL	3.1		ug/Kg-dry	259657	1	04/23/2018 15:21	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-18-1.5
Project Name: Rheem	Collection Date: 4/17/2018 2:05:00 PM
Lab ID: 1804H65-027	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5035)			
Styrene	BRL	3.1		ug/Kg-dry	259657	1	04/23/2018 15:21	AR
Tetrachloroethene	BRL	3.1		ug/Kg-dry	259657	1	04/23/2018 15:21	AR
Toluene	BRL	3.1		ug/Kg-dry	259657	1	04/23/2018 15:21	AR
trans-1,2-Dichloroethene	BRL	3.1		ug/Kg-dry	259657	1	04/23/2018 15:21	AR
trans-1,3-Dichloropropene	BRL	3.1		ug/Kg-dry	259657	1	04/23/2018 15:21	AR
Trichloroethene	56	3.1		ug/Kg-dry	259657	1	04/23/2018 15:21	AR
Trichlorofluoromethane	BRL	3.1		ug/Kg-dry	259657	1	04/23/2018 15:21	AR
Vinyl chloride	BRL	6.1		ug/Kg-dry	259657	1	04/23/2018 15:21	AR
Surr: 4-Bromofluorobenzene	88.6	65-133		%REC	259657	1	04/23/2018 15:21	AR
Surr: Dibromofluoromethane	109	75.8-119		%REC	259657	1	04/23/2018 15:21	AR
Surr: Toluene-d8	108	78.3-120		%REC	259657	1	04/23/2018 15:21	AR
PERCENT MOISTURE D2216								
Percent Moisture	12.8	0		wt%	R368387	1	04/20/2018 17:00	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-18-4
Project Name: Rheem	Collection Date: 4/17/2018 2:10:00 PM
Lab ID: 1804H65-028	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	4.0		ug/Kg-dry	259657	1	04/23/2018 15:48	AR
1,1,2,2-Tetrachloroethane	BRL	4.0		ug/Kg-dry	259657	1	04/23/2018 15:48	AR
1,1,2-Trichloroethane	BRL	4.0		ug/Kg-dry	259657	1	04/23/2018 15:48	AR
1,1-Dichloroethane	BRL	4.0		ug/Kg-dry	259657	1	04/23/2018 15:48	AR
1,1-Dichloroethene	BRL	4.0		ug/Kg-dry	259657	1	04/23/2018 15:48	AR
1,2,4-Trichlorobenzene	BRL	4.0		ug/Kg-dry	259657	1	04/23/2018 15:48	AR
1,2-Dibromo-3-chloropropane	BRL	4.0		ug/Kg-dry	259657	1	04/23/2018 15:48	AR
1,2-Dibromoethane	BRL	4.0		ug/Kg-dry	259657	1	04/23/2018 15:48	AR
1,2-Dichlorobenzene	BRL	4.0		ug/Kg-dry	259657	1	04/23/2018 15:48	AR
1,2-Dichloroethane	BRL	4.0		ug/Kg-dry	259657	1	04/23/2018 15:48	AR
1,2-Dichloropropane	BRL	4.0		ug/Kg-dry	259657	1	04/23/2018 15:48	AR
1,3-Dichlorobenzene	BRL	4.0		ug/Kg-dry	259657	1	04/23/2018 15:48	AR
1,4-Dichlorobenzene	BRL	4.0		ug/Kg-dry	259657	1	04/23/2018 15:48	AR
2-Butanone	BRL	40		ug/Kg-dry	259657	1	04/23/2018 15:48	AR
2-Hexanone	BRL	8.1		ug/Kg-dry	259657	1	04/23/2018 15:48	AR
4-Methyl-2-pentanone	BRL	8.1		ug/Kg-dry	259657	1	04/23/2018 15:48	AR
Acetone	BRL	81		ug/Kg-dry	259657	1	04/23/2018 15:48	AR
Benzene	BRL	4.0		ug/Kg-dry	259657	1	04/23/2018 15:48	AR
Bromodichloromethane	BRL	4.0		ug/Kg-dry	259657	1	04/23/2018 15:48	AR
Bromoform	BRL	4.0		ug/Kg-dry	259657	1	04/23/2018 15:48	AR
Bromomethane	BRL	4.0		ug/Kg-dry	259657	1	04/23/2018 15:48	AR
Carbon disulfide	BRL	8.1		ug/Kg-dry	259657	1	04/23/2018 15:48	AR
Carbon tetrachloride	BRL	4.0		ug/Kg-dry	259657	1	04/23/2018 15:48	AR
Chlorobenzene	BRL	4.0		ug/Kg-dry	259657	1	04/23/2018 15:48	AR
Chloroethane	BRL	8.1		ug/Kg-dry	259657	1	04/23/2018 15:48	AR
Chloroform	BRL	4.0		ug/Kg-dry	259657	1	04/23/2018 15:48	AR
Chloromethane	BRL	8.1		ug/Kg-dry	259657	1	04/23/2018 15:48	AR
cis-1,2-Dichloroethene	BRL	4.0		ug/Kg-dry	259657	1	04/23/2018 15:48	AR
cis-1,3-Dichloropropene	BRL	4.0		ug/Kg-dry	259657	1	04/23/2018 15:48	AR
Cyclohexane	BRL	4.0		ug/Kg-dry	259657	1	04/23/2018 15:48	AR
Dibromochloromethane	BRL	4.0		ug/Kg-dry	259657	1	04/23/2018 15:48	AR
Dichlorodifluoromethane	BRL	8.1		ug/Kg-dry	259657	1	04/23/2018 15:48	AR
Ethylbenzene	BRL	4.0		ug/Kg-dry	259657	1	04/23/2018 15:48	AR
Freon-113	BRL	8.1		ug/Kg-dry	259657	1	04/23/2018 15:48	AR
Isopropylbenzene	BRL	4.0		ug/Kg-dry	259657	1	04/23/2018 15:48	AR
m,p-Xylene	BRL	4.0		ug/Kg-dry	259657	1	04/23/2018 15:48	AR
Methyl acetate	BRL	4.0		ug/Kg-dry	259657	1	04/23/2018 15:48	AR
Methyl tert-butyl ether	BRL	4.0		ug/Kg-dry	259657	1	04/23/2018 15:48	AR
Methylcyclohexane	BRL	4.0		ug/Kg-dry	259657	1	04/23/2018 15:48	AR
Methylene chloride	BRL	16		ug/Kg-dry	259657	1	04/23/2018 15:48	AR
o-Xylene	BRL	4.0		ug/Kg-dry	259657	1	04/23/2018 15:48	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-18-4
Project Name: Rheem	Collection Date: 4/17/2018 2:10:00 PM
Lab ID: 1804H65-028	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5035)			
Styrene	BRL	4.0		ug/Kg-dry	259657	1	04/23/2018 15:48	AR
Tetrachloroethene	BRL	4.0		ug/Kg-dry	259657	1	04/23/2018 15:48	AR
Toluene	BRL	4.0		ug/Kg-dry	259657	1	04/23/2018 15:48	AR
trans-1,2-Dichloroethene	BRL	4.0		ug/Kg-dry	259657	1	04/23/2018 15:48	AR
trans-1,3-Dichloropropene	BRL	4.0		ug/Kg-dry	259657	1	04/23/2018 15:48	AR
Trichloroethene	BRL	4.0		ug/Kg-dry	259657	1	04/23/2018 15:48	AR
Trichlorofluoromethane	BRL	4.0		ug/Kg-dry	259657	1	04/23/2018 15:48	AR
Vinyl chloride	BRL	8.1		ug/Kg-dry	259657	1	04/23/2018 15:48	AR
Surr: 4-Bromofluorobenzene	88.3	65-133		%REC	259657	1	04/23/2018 15:48	AR
Surr: Dibromofluoromethane	112	75.8-119		%REC	259657	1	04/23/2018 15:48	AR
Surr: Toluene-d8	111	78.3-120		%REC	259657	1	04/23/2018 15:48	AR
PERCENT MOISTURE D2216								
Percent Moisture	19.3	0		wt%	R368387	1	04/20/2018 17:00	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-18-8
Project Name: Rheem	Collection Date: 4/17/2018 2:15:00 PM
Lab ID: 1804H65-029	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	5.3		ug/Kg-dry	259657	1	04/23/2018 16:14	AR
1,1,2,2-Tetrachloroethane	BRL	5.3		ug/Kg-dry	259657	1	04/23/2018 16:14	AR
1,1,2-Trichloroethane	BRL	5.3		ug/Kg-dry	259657	1	04/23/2018 16:14	AR
1,1-Dichloroethane	BRL	5.3		ug/Kg-dry	259657	1	04/23/2018 16:14	AR
1,1-Dichloroethene	BRL	5.3		ug/Kg-dry	259657	1	04/23/2018 16:14	AR
1,2,4-Trichlorobenzene	BRL	5.3		ug/Kg-dry	259657	1	04/23/2018 16:14	AR
1,2-Dibromo-3-chloropropane	BRL	5.3		ug/Kg-dry	259657	1	04/23/2018 16:14	AR
1,2-Dibromoethane	BRL	5.3		ug/Kg-dry	259657	1	04/23/2018 16:14	AR
1,2-Dichlorobenzene	BRL	5.3		ug/Kg-dry	259657	1	04/23/2018 16:14	AR
1,2-Dichloroethane	BRL	5.3		ug/Kg-dry	259657	1	04/23/2018 16:14	AR
1,2-Dichloropropane	BRL	5.3		ug/Kg-dry	259657	1	04/23/2018 16:14	AR
1,3-Dichlorobenzene	BRL	5.3		ug/Kg-dry	259657	1	04/23/2018 16:14	AR
1,4-Dichlorobenzene	BRL	5.3		ug/Kg-dry	259657	1	04/23/2018 16:14	AR
2-Butanone	BRL	53		ug/Kg-dry	259657	1	04/23/2018 16:14	AR
2-Hexanone	BRL	11		ug/Kg-dry	259657	1	04/23/2018 16:14	AR
4-Methyl-2-pentanone	BRL	11		ug/Kg-dry	259657	1	04/23/2018 16:14	AR
Acetone	BRL	110		ug/Kg-dry	259657	1	04/23/2018 16:14	AR
Benzene	BRL	5.3		ug/Kg-dry	259657	1	04/23/2018 16:14	AR
Bromodichloromethane	BRL	5.3		ug/Kg-dry	259657	1	04/23/2018 16:14	AR
Bromoform	BRL	5.3		ug/Kg-dry	259657	1	04/23/2018 16:14	AR
Bromomethane	BRL	5.3		ug/Kg-dry	259657	1	04/23/2018 16:14	AR
Carbon disulfide	BRL	11		ug/Kg-dry	259657	1	04/23/2018 16:14	AR
Carbon tetrachloride	BRL	5.3		ug/Kg-dry	259657	1	04/23/2018 16:14	AR
Chlorobenzene	BRL	5.3		ug/Kg-dry	259657	1	04/23/2018 16:14	AR
Chloroethane	BRL	11		ug/Kg-dry	259657	1	04/23/2018 16:14	AR
Chloroform	BRL	5.3		ug/Kg-dry	259657	1	04/23/2018 16:14	AR
Chloromethane	BRL	11		ug/Kg-dry	259657	1	04/23/2018 16:14	AR
cis-1,2-Dichloroethene	BRL	5.3		ug/Kg-dry	259657	1	04/23/2018 16:14	AR
cis-1,3-Dichloropropene	BRL	5.3		ug/Kg-dry	259657	1	04/23/2018 16:14	AR
Cyclohexane	BRL	5.3		ug/Kg-dry	259657	1	04/23/2018 16:14	AR
Dibromochloromethane	BRL	5.3		ug/Kg-dry	259657	1	04/23/2018 16:14	AR
Dichlorodifluoromethane	BRL	11		ug/Kg-dry	259657	1	04/23/2018 16:14	AR
Ethylbenzene	BRL	5.3		ug/Kg-dry	259657	1	04/23/2018 16:14	AR
Freon-113	BRL	11		ug/Kg-dry	259657	1	04/23/2018 16:14	AR
Isopropylbenzene	BRL	5.3		ug/Kg-dry	259657	1	04/23/2018 16:14	AR
m,p-Xylene	BRL	5.3		ug/Kg-dry	259657	1	04/23/2018 16:14	AR
Methyl acetate	BRL	5.3		ug/Kg-dry	259657	1	04/23/2018 16:14	AR
Methyl tert-butyl ether	BRL	5.3		ug/Kg-dry	259657	1	04/23/2018 16:14	AR
Methylcyclohexane	BRL	5.3		ug/Kg-dry	259657	1	04/23/2018 16:14	AR
Methylene chloride	BRL	21		ug/Kg-dry	259657	1	04/23/2018 16:14	AR
o-Xylene	BRL	5.3		ug/Kg-dry	259657	1	04/23/2018 16:14	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-18-8
Project Name: Rheem	Collection Date: 4/17/2018 2:15:00 PM
Lab ID: 1804H65-029	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B			(SW5035)					
Styrene	BRL	5.3		ug/Kg-dry	259657	1	04/23/2018 16:14	AR
Tetrachloroethene	BRL	5.3		ug/Kg-dry	259657	1	04/23/2018 16:14	AR
Toluene	BRL	5.3		ug/Kg-dry	259657	1	04/23/2018 16:14	AR
trans-1,2-Dichloroethene	BRL	5.3		ug/Kg-dry	259657	1	04/23/2018 16:14	AR
trans-1,3-Dichloropropene	BRL	5.3		ug/Kg-dry	259657	1	04/23/2018 16:14	AR
Trichloroethene	BRL	5.3		ug/Kg-dry	259657	1	04/23/2018 16:14	AR
Trichlorofluoromethane	BRL	5.3		ug/Kg-dry	259657	1	04/23/2018 16:14	AR
Vinyl chloride	BRL	11		ug/Kg-dry	259657	1	04/23/2018 16:14	AR
Surr: 4-Bromofluorobenzene	87.9	65-133		%REC	259657	1	04/23/2018 16:14	AR
Surr: Dibromofluoromethane	114	75.8-119		%REC	259657	1	04/23/2018 16:14	AR
Surr: Toluene-d8	110	78.3-120		%REC	259657	1	04/23/2018 16:14	AR
PERCENT MOISTURE D2216								
Percent Moisture	26.5	0		wt%	R368387	1	04/20/2018 17:00	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-18-13
Project Name: Rheem	Collection Date: 4/17/2018 2:20:00 PM
Lab ID: 1804H65-030	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	3.1		ug/Kg-dry	259657	1	04/23/2018 16:43	AR
1,1,2,2-Tetrachloroethane	BRL	3.1		ug/Kg-dry	259657	1	04/23/2018 16:43	AR
1,1,2-Trichloroethane	BRL	3.1		ug/Kg-dry	259657	1	04/23/2018 16:43	AR
1,1-Dichloroethane	BRL	3.1		ug/Kg-dry	259657	1	04/23/2018 16:43	AR
1,1-Dichloroethene	BRL	3.1		ug/Kg-dry	259657	1	04/23/2018 16:43	AR
1,2,4-Trichlorobenzene	BRL	3.1		ug/Kg-dry	259657	1	04/23/2018 16:43	AR
1,2-Dibromo-3-chloropropane	BRL	3.1		ug/Kg-dry	259657	1	04/23/2018 16:43	AR
1,2-Dibromoethane	BRL	3.1		ug/Kg-dry	259657	1	04/23/2018 16:43	AR
1,2-Dichlorobenzene	BRL	3.1		ug/Kg-dry	259657	1	04/23/2018 16:43	AR
1,2-Dichloroethane	BRL	3.1		ug/Kg-dry	259657	1	04/23/2018 16:43	AR
1,2-Dichloropropane	BRL	3.1		ug/Kg-dry	259657	1	04/23/2018 16:43	AR
1,3-Dichlorobenzene	BRL	3.1		ug/Kg-dry	259657	1	04/23/2018 16:43	AR
1,4-Dichlorobenzene	BRL	3.1		ug/Kg-dry	259657	1	04/23/2018 16:43	AR
2-Butanone	BRL	31		ug/Kg-dry	259657	1	04/23/2018 16:43	AR
2-Hexanone	BRL	6.3		ug/Kg-dry	259657	1	04/23/2018 16:43	AR
4-Methyl-2-pentanone	BRL	6.3		ug/Kg-dry	259657	1	04/23/2018 16:43	AR
Acetone	BRL	63		ug/Kg-dry	259657	1	04/23/2018 16:43	AR
Benzene	BRL	3.1		ug/Kg-dry	259657	1	04/23/2018 16:43	AR
Bromodichloromethane	BRL	3.1		ug/Kg-dry	259657	1	04/23/2018 16:43	AR
Bromoform	BRL	3.1		ug/Kg-dry	259657	1	04/23/2018 16:43	AR
Bromomethane	BRL	3.1		ug/Kg-dry	259657	1	04/23/2018 16:43	AR
Carbon disulfide	BRL	6.3		ug/Kg-dry	259657	1	04/23/2018 16:43	AR
Carbon tetrachloride	BRL	3.1		ug/Kg-dry	259657	1	04/23/2018 16:43	AR
Chlorobenzene	BRL	3.1		ug/Kg-dry	259657	1	04/23/2018 16:43	AR
Chloroethane	BRL	6.3		ug/Kg-dry	259657	1	04/23/2018 16:43	AR
Chloroform	BRL	3.1		ug/Kg-dry	259657	1	04/23/2018 16:43	AR
Chloromethane	BRL	6.3		ug/Kg-dry	259657	1	04/23/2018 16:43	AR
cis-1,2-Dichloroethene	BRL	3.1		ug/Kg-dry	259657	1	04/23/2018 16:43	AR
cis-1,3-Dichloropropene	BRL	3.1		ug/Kg-dry	259657	1	04/23/2018 16:43	AR
Cyclohexane	BRL	3.1		ug/Kg-dry	259657	1	04/23/2018 16:43	AR
Dibromochloromethane	BRL	3.1		ug/Kg-dry	259657	1	04/23/2018 16:43	AR
Dichlorodifluoromethane	BRL	6.3		ug/Kg-dry	259657	1	04/23/2018 16:43	AR
Ethylbenzene	BRL	3.1		ug/Kg-dry	259657	1	04/23/2018 16:43	AR
Freon-113	BRL	6.3		ug/Kg-dry	259657	1	04/23/2018 16:43	AR
Isopropylbenzene	BRL	3.1		ug/Kg-dry	259657	1	04/23/2018 16:43	AR
m,p-Xylene	BRL	3.1		ug/Kg-dry	259657	1	04/23/2018 16:43	AR
Methyl acetate	BRL	3.1		ug/Kg-dry	259657	1	04/23/2018 16:43	AR
Methyl tert-butyl ether	BRL	3.1		ug/Kg-dry	259657	1	04/23/2018 16:43	AR
Methylcyclohexane	BRL	3.1		ug/Kg-dry	259657	1	04/23/2018 16:43	AR
Methylene chloride	BRL	13		ug/Kg-dry	259657	1	04/23/2018 16:43	AR
o-Xylene	BRL	3.1		ug/Kg-dry	259657	1	04/23/2018 16:43	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-18-13
Project Name: Rheem	Collection Date: 4/17/2018 2:20:00 PM
Lab ID: 1804H65-030	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5035)			
Styrene	BRL	3.1		ug/Kg-dry	259657	1	04/23/2018 16:43	AR
Tetrachloroethene	BRL	3.1		ug/Kg-dry	259657	1	04/23/2018 16:43	AR
Toluene	BRL	3.1		ug/Kg-dry	259657	1	04/23/2018 16:43	AR
trans-1,2-Dichloroethene	BRL	3.1		ug/Kg-dry	259657	1	04/23/2018 16:43	AR
trans-1,3-Dichloropropene	BRL	3.1		ug/Kg-dry	259657	1	04/23/2018 16:43	AR
Trichloroethene	BRL	3.1		ug/Kg-dry	259657	1	04/23/2018 16:43	AR
Trichlorofluoromethane	BRL	3.1		ug/Kg-dry	259657	1	04/23/2018 16:43	AR
Vinyl chloride	BRL	6.3		ug/Kg-dry	259657	1	04/23/2018 16:43	AR
Surr: 4-Bromofluorobenzene	91.5	65-133		%REC	259657	1	04/23/2018 16:43	AR
Surr: Dibromofluoromethane	99.7	75.8-119		%REC	259657	1	04/23/2018 16:43	AR
Surr: Toluene-d8	108	78.3-120		%REC	259657	1	04/23/2018 16:43	AR
PERCENT MOISTURE D2216								
Percent Moisture	23.6	0		wt%	R368387	1	04/20/2018 17:00	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-13-4
Project Name: Rheem	Collection Date: 4/17/2018 2:45:00 PM
Lab ID: 1804H65-031	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	6.0		ug/Kg-dry	259657	1	04/23/2018 17:10	AR
1,1,2,2-Tetrachloroethane	BRL	6.0		ug/Kg-dry	259657	1	04/23/2018 17:10	AR
1,1,2-Trichloroethane	BRL	6.0		ug/Kg-dry	259657	1	04/23/2018 17:10	AR
1,1-Dichloroethane	BRL	6.0		ug/Kg-dry	259657	1	04/23/2018 17:10	AR
1,1-Dichloroethene	BRL	6.0		ug/Kg-dry	259657	1	04/23/2018 17:10	AR
1,2,4-Trichlorobenzene	BRL	6.0		ug/Kg-dry	259657	1	04/23/2018 17:10	AR
1,2-Dibromo-3-chloropropane	BRL	6.0		ug/Kg-dry	259657	1	04/23/2018 17:10	AR
1,2-Dibromoethane	BRL	6.0		ug/Kg-dry	259657	1	04/23/2018 17:10	AR
1,2-Dichlorobenzene	BRL	6.0		ug/Kg-dry	259657	1	04/23/2018 17:10	AR
1,2-Dichloroethane	BRL	6.0		ug/Kg-dry	259657	1	04/23/2018 17:10	AR
1,2-Dichloropropane	BRL	6.0		ug/Kg-dry	259657	1	04/23/2018 17:10	AR
1,3-Dichlorobenzene	BRL	6.0		ug/Kg-dry	259657	1	04/23/2018 17:10	AR
1,4-Dichlorobenzene	BRL	6.0		ug/Kg-dry	259657	1	04/23/2018 17:10	AR
2-Butanone	BRL	60		ug/Kg-dry	259657	1	04/23/2018 17:10	AR
2-Hexanone	BRL	12		ug/Kg-dry	259657	1	04/23/2018 17:10	AR
4-Methyl-2-pentanone	BRL	12		ug/Kg-dry	259657	1	04/23/2018 17:10	AR
Acetone	BRL	120		ug/Kg-dry	259657	1	04/23/2018 17:10	AR
Benzene	BRL	6.0		ug/Kg-dry	259657	1	04/23/2018 17:10	AR
Bromodichloromethane	BRL	6.0		ug/Kg-dry	259657	1	04/23/2018 17:10	AR
Bromoform	BRL	6.0		ug/Kg-dry	259657	1	04/23/2018 17:10	AR
Bromomethane	BRL	6.0		ug/Kg-dry	259657	1	04/23/2018 17:10	AR
Carbon disulfide	BRL	12		ug/Kg-dry	259657	1	04/23/2018 17:10	AR
Carbon tetrachloride	BRL	6.0		ug/Kg-dry	259657	1	04/23/2018 17:10	AR
Chlorobenzene	BRL	6.0		ug/Kg-dry	259657	1	04/23/2018 17:10	AR
Chloroethane	BRL	12		ug/Kg-dry	259657	1	04/23/2018 17:10	AR
Chloroform	BRL	6.0		ug/Kg-dry	259657	1	04/23/2018 17:10	AR
Chloromethane	BRL	12		ug/Kg-dry	259657	1	04/23/2018 17:10	AR
cis-1,2-Dichloroethene	BRL	6.0		ug/Kg-dry	259657	1	04/23/2018 17:10	AR
cis-1,3-Dichloropropene	BRL	6.0		ug/Kg-dry	259657	1	04/23/2018 17:10	AR
Cyclohexane	BRL	6.0		ug/Kg-dry	259657	1	04/23/2018 17:10	AR
Dibromochloromethane	BRL	6.0		ug/Kg-dry	259657	1	04/23/2018 17:10	AR
Dichlorodifluoromethane	BRL	12		ug/Kg-dry	259657	1	04/23/2018 17:10	AR
Ethylbenzene	BRL	6.0		ug/Kg-dry	259657	1	04/23/2018 17:10	AR
Freon-113	BRL	12		ug/Kg-dry	259657	1	04/23/2018 17:10	AR
Isopropylbenzene	BRL	6.0		ug/Kg-dry	259657	1	04/23/2018 17:10	AR
m,p-Xylene	BRL	6.0		ug/Kg-dry	259657	1	04/23/2018 17:10	AR
Methyl acetate	BRL	6.0		ug/Kg-dry	259657	1	04/23/2018 17:10	AR
Methyl tert-butyl ether	BRL	6.0		ug/Kg-dry	259657	1	04/23/2018 17:10	AR
Methylcyclohexane	BRL	6.0		ug/Kg-dry	259657	1	04/23/2018 17:10	AR
Methylene chloride	BRL	24		ug/Kg-dry	259657	1	04/23/2018 17:10	AR
o-Xylene	BRL	6.0		ug/Kg-dry	259657	1	04/23/2018 17:10	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-13-4
Project Name: Rheem	Collection Date: 4/17/2018 2:45:00 PM
Lab ID: 1804H65-031	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5035)			
Styrene	BRL	6.0		ug/Kg-dry	259657	1	04/23/2018 17:10	AR
Tetrachloroethene	BRL	6.0		ug/Kg-dry	259657	1	04/23/2018 17:10	AR
Toluene	BRL	6.0		ug/Kg-dry	259657	1	04/23/2018 17:10	AR
trans-1,2-Dichloroethene	BRL	6.0		ug/Kg-dry	259657	1	04/23/2018 17:10	AR
trans-1,3-Dichloropropene	BRL	6.0		ug/Kg-dry	259657	1	04/23/2018 17:10	AR
Trichloroethene	8.7	6.0		ug/Kg-dry	259657	1	04/23/2018 17:10	AR
Trichlorofluoromethane	BRL	6.0		ug/Kg-dry	259657	1	04/23/2018 17:10	AR
Vinyl chloride	BRL	12		ug/Kg-dry	259657	1	04/23/2018 17:10	AR
Surr: 4-Bromofluorobenzene	89.3	65-133		%REC	259657	1	04/23/2018 17:10	AR
Surr: Dibromofluoromethane	110	75.8-119		%REC	259657	1	04/23/2018 17:10	AR
Surr: Toluene-d8	109	78.3-120		%REC	259657	1	04/23/2018 17:10	AR
PERCENT MOISTURE D2216								
Percent Moisture	14.7	0		wt%	R368387	1	04/20/2018 17:00	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-13-8
Project Name: Rheem	Collection Date: 4/17/2018 2:50:00 PM
Lab ID: 1804H65-032	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	5.0		ug/Kg-dry	259657	1	04/23/2018 17:36	AR
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/Kg-dry	259657	1	04/23/2018 17:36	AR
1,1,2-Trichloroethane	BRL	5.0		ug/Kg-dry	259657	1	04/23/2018 17:36	AR
1,1-Dichloroethane	BRL	5.0		ug/Kg-dry	259657	1	04/23/2018 17:36	AR
1,1-Dichloroethene	BRL	5.0		ug/Kg-dry	259657	1	04/23/2018 17:36	AR
1,2,4-Trichlorobenzene	BRL	5.0		ug/Kg-dry	259657	1	04/23/2018 17:36	AR
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/Kg-dry	259657	1	04/23/2018 17:36	AR
1,2-Dibromoethane	BRL	5.0		ug/Kg-dry	259657	1	04/23/2018 17:36	AR
1,2-Dichlorobenzene	BRL	5.0		ug/Kg-dry	259657	1	04/23/2018 17:36	AR
1,2-Dichloroethane	BRL	5.0		ug/Kg-dry	259657	1	04/23/2018 17:36	AR
1,2-Dichloropropane	BRL	5.0		ug/Kg-dry	259657	1	04/23/2018 17:36	AR
1,3-Dichlorobenzene	BRL	5.0		ug/Kg-dry	259657	1	04/23/2018 17:36	AR
1,4-Dichlorobenzene	BRL	5.0		ug/Kg-dry	259657	1	04/23/2018 17:36	AR
2-Butanone	BRL	50		ug/Kg-dry	259657	1	04/23/2018 17:36	AR
2-Hexanone	BRL	10		ug/Kg-dry	259657	1	04/23/2018 17:36	AR
4-Methyl-2-pentanone	BRL	10		ug/Kg-dry	259657	1	04/23/2018 17:36	AR
Acetone	BRL	100		ug/Kg-dry	259657	1	04/23/2018 17:36	AR
Benzene	BRL	5.0		ug/Kg-dry	259657	1	04/23/2018 17:36	AR
Bromodichloromethane	BRL	5.0		ug/Kg-dry	259657	1	04/23/2018 17:36	AR
Bromoform	BRL	5.0		ug/Kg-dry	259657	1	04/23/2018 17:36	AR
Bromomethane	BRL	5.0		ug/Kg-dry	259657	1	04/23/2018 17:36	AR
Carbon disulfide	BRL	10		ug/Kg-dry	259657	1	04/23/2018 17:36	AR
Carbon tetrachloride	BRL	5.0		ug/Kg-dry	259657	1	04/23/2018 17:36	AR
Chlorobenzene	BRL	5.0		ug/Kg-dry	259657	1	04/23/2018 17:36	AR
Chloroethane	BRL	10		ug/Kg-dry	259657	1	04/23/2018 17:36	AR
Chloroform	BRL	5.0		ug/Kg-dry	259657	1	04/23/2018 17:36	AR
Chloromethane	BRL	10		ug/Kg-dry	259657	1	04/23/2018 17:36	AR
cis-1,2-Dichloroethene	BRL	5.0		ug/Kg-dry	259657	1	04/23/2018 17:36	AR
cis-1,3-Dichloropropene	BRL	5.0		ug/Kg-dry	259657	1	04/23/2018 17:36	AR
Cyclohexane	BRL	5.0		ug/Kg-dry	259657	1	04/23/2018 17:36	AR
Dibromochloromethane	BRL	5.0		ug/Kg-dry	259657	1	04/23/2018 17:36	AR
Dichlorodifluoromethane	BRL	10		ug/Kg-dry	259657	1	04/23/2018 17:36	AR
Ethylbenzene	BRL	5.0		ug/Kg-dry	259657	1	04/23/2018 17:36	AR
Freon-113	BRL	10		ug/Kg-dry	259657	1	04/23/2018 17:36	AR
Isopropylbenzene	BRL	5.0		ug/Kg-dry	259657	1	04/23/2018 17:36	AR
m,p-Xylene	BRL	5.0		ug/Kg-dry	259657	1	04/23/2018 17:36	AR
Methyl acetate	BRL	5.0		ug/Kg-dry	259657	1	04/23/2018 17:36	AR
Methyl tert-butyl ether	BRL	5.0		ug/Kg-dry	259657	1	04/23/2018 17:36	AR
Methylcyclohexane	BRL	5.0		ug/Kg-dry	259657	1	04/23/2018 17:36	AR
Methylene chloride	BRL	20		ug/Kg-dry	259657	1	04/23/2018 17:36	AR
o-Xylene	BRL	5.0		ug/Kg-dry	259657	1	04/23/2018 17:36	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-13-8
Project Name: Rheem	Collection Date: 4/17/2018 2:50:00 PM
Lab ID: 1804H65-032	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5035)			
Styrene	BRL	5.0		ug/Kg-dry	259657	1	04/23/2018 17:36	AR
Tetrachloroethene	BRL	5.0		ug/Kg-dry	259657	1	04/23/2018 17:36	AR
Toluene	BRL	5.0		ug/Kg-dry	259657	1	04/23/2018 17:36	AR
trans-1,2-Dichloroethene	BRL	5.0		ug/Kg-dry	259657	1	04/23/2018 17:36	AR
trans-1,3-Dichloropropene	BRL	5.0		ug/Kg-dry	259657	1	04/23/2018 17:36	AR
Trichloroethene	BRL	5.0		ug/Kg-dry	259657	1	04/23/2018 17:36	AR
Trichlorofluoromethane	BRL	5.0		ug/Kg-dry	259657	1	04/23/2018 17:36	AR
Vinyl chloride	BRL	10		ug/Kg-dry	259657	1	04/23/2018 17:36	AR
Surr: 4-Bromofluorobenzene	87.5	65-133		%REC	259657	1	04/23/2018 17:36	AR
Surr: Dibromofluoromethane	109	75.8-119		%REC	259657	1	04/23/2018 17:36	AR
Surr: Toluene-d8	107	78.3-120		%REC	259657	1	04/23/2018 17:36	AR
PERCENT MOISTURE D2216								
Percent Moisture	19.0	0		wt%	R368387	1	04/20/2018 17:00	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-8-0.5
Project Name: Rheem	Collection Date: 4/17/2018 3:05:00 PM
Lab ID: 1804H65-033	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	3.9		ug/Kg-dry	259657	1	04/23/2018 19:23	AR
1,1,2,2-Tetrachloroethane	BRL	3.9		ug/Kg-dry	259657	1	04/23/2018 19:23	AR
1,1,2-Trichloroethane	BRL	3.9		ug/Kg-dry	259657	1	04/23/2018 19:23	AR
1,1-Dichloroethane	BRL	3.9		ug/Kg-dry	259657	1	04/23/2018 19:23	AR
1,1-Dichloroethene	BRL	3.9		ug/Kg-dry	259657	1	04/23/2018 19:23	AR
1,2,4-Trichlorobenzene	BRL	3.9		ug/Kg-dry	259657	1	04/23/2018 19:23	AR
1,2-Dibromo-3-chloropropane	BRL	3.9		ug/Kg-dry	259657	1	04/23/2018 19:23	AR
1,2-Dibromoethane	BRL	3.9		ug/Kg-dry	259657	1	04/23/2018 19:23	AR
1,2-Dichlorobenzene	BRL	3.9		ug/Kg-dry	259657	1	04/23/2018 19:23	AR
1,2-Dichloroethane	BRL	3.9		ug/Kg-dry	259657	1	04/23/2018 19:23	AR
1,2-Dichloropropane	BRL	3.9		ug/Kg-dry	259657	1	04/23/2018 19:23	AR
1,3-Dichlorobenzene	BRL	3.9		ug/Kg-dry	259657	1	04/23/2018 19:23	AR
1,4-Dichlorobenzene	BRL	3.9		ug/Kg-dry	259657	1	04/23/2018 19:23	AR
2-Butanone	BRL	39		ug/Kg-dry	259657	1	04/23/2018 19:23	AR
2-Hexanone	BRL	7.9		ug/Kg-dry	259657	1	04/23/2018 19:23	AR
4-Methyl-2-pentanone	BRL	7.9		ug/Kg-dry	259657	1	04/23/2018 19:23	AR
Acetone	BRL	79		ug/Kg-dry	259657	1	04/23/2018 19:23	AR
Benzene	BRL	3.9		ug/Kg-dry	259657	1	04/23/2018 19:23	AR
Bromodichloromethane	BRL	3.9		ug/Kg-dry	259657	1	04/23/2018 19:23	AR
Bromoform	BRL	3.9		ug/Kg-dry	259657	1	04/23/2018 19:23	AR
Bromomethane	BRL	3.9		ug/Kg-dry	259657	1	04/23/2018 19:23	AR
Carbon disulfide	BRL	7.9		ug/Kg-dry	259657	1	04/23/2018 19:23	AR
Carbon tetrachloride	BRL	3.9		ug/Kg-dry	259657	1	04/23/2018 19:23	AR
Chlorobenzene	BRL	3.9		ug/Kg-dry	259657	1	04/23/2018 19:23	AR
Chloroethane	BRL	7.9		ug/Kg-dry	259657	1	04/23/2018 19:23	AR
Chloroform	BRL	3.9		ug/Kg-dry	259657	1	04/23/2018 19:23	AR
Chloromethane	BRL	7.9		ug/Kg-dry	259657	1	04/23/2018 19:23	AR
cis-1,2-Dichloroethene	BRL	3.9		ug/Kg-dry	259657	1	04/23/2018 19:23	AR
cis-1,3-Dichloropropene	BRL	3.9		ug/Kg-dry	259657	1	04/23/2018 19:23	AR
Cyclohexane	BRL	3.9		ug/Kg-dry	259657	1	04/23/2018 19:23	AR
Dibromochloromethane	BRL	3.9		ug/Kg-dry	259657	1	04/23/2018 19:23	AR
Dichlorodifluoromethane	BRL	7.9		ug/Kg-dry	259657	1	04/23/2018 19:23	AR
Ethylbenzene	BRL	3.9		ug/Kg-dry	259657	1	04/23/2018 19:23	AR
Freon-113	BRL	7.9		ug/Kg-dry	259657	1	04/23/2018 19:23	AR
Isopropylbenzene	BRL	3.9		ug/Kg-dry	259657	1	04/23/2018 19:23	AR
m,p-Xylene	BRL	3.9		ug/Kg-dry	259657	1	04/23/2018 19:23	AR
Methyl acetate	BRL	3.9		ug/Kg-dry	259657	1	04/23/2018 19:23	AR
Methyl tert-butyl ether	BRL	3.9		ug/Kg-dry	259657	1	04/23/2018 19:23	AR
Methylcyclohexane	BRL	3.9		ug/Kg-dry	259657	1	04/23/2018 19:23	AR
Methylene chloride	BRL	16		ug/Kg-dry	259657	1	04/23/2018 19:23	AR
o-Xylene	BRL	3.9		ug/Kg-dry	259657	1	04/23/2018 19:23	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-8-0.5
Project Name: Rheem	Collection Date: 4/17/2018 3:05:00 PM
Lab ID: 1804H65-033	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5035)			
Styrene	BRL	3.9		ug/Kg-dry	259657	1	04/23/2018 19:23	AR
Tetrachloroethene	BRL	3.9		ug/Kg-dry	259657	1	04/23/2018 19:23	AR
Toluene	BRL	3.9		ug/Kg-dry	259657	1	04/23/2018 19:23	AR
trans-1,2-Dichloroethene	BRL	3.9		ug/Kg-dry	259657	1	04/23/2018 19:23	AR
trans-1,3-Dichloropropene	BRL	3.9		ug/Kg-dry	259657	1	04/23/2018 19:23	AR
Trichloroethene	BRL	3.9		ug/Kg-dry	259657	1	04/23/2018 19:23	AR
Trichlorofluoromethane	BRL	3.9		ug/Kg-dry	259657	1	04/23/2018 19:23	AR
Vinyl chloride	BRL	7.9		ug/Kg-dry	259657	1	04/23/2018 19:23	AR
Surr: 4-Bromofluorobenzene	91	65-133		%REC	259657	1	04/23/2018 19:23	AR
Surr: Dibromofluoromethane	111	75.8-119		%REC	259657	1	04/23/2018 19:23	AR
Surr: Toluene-d8	108	78.3-120		%REC	259657	1	04/23/2018 19:23	AR
PERCENT MOISTURE D2216								
Percent Moisture	19.9	0		wt%	R368387	1	04/20/2018 17:00	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-8-1.5
Project Name: Rheem	Collection Date: 4/17/2018 3:10:00 PM
Lab ID: 1804H65-034	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	2.5		ug/Kg-dry	259657	1	04/23/2018 19:50	AR
1,1,2,2-Tetrachloroethane	BRL	2.5		ug/Kg-dry	259657	1	04/23/2018 19:50	AR
1,1,2-Trichloroethane	BRL	2.5		ug/Kg-dry	259657	1	04/23/2018 19:50	AR
1,1-Dichloroethane	BRL	2.5		ug/Kg-dry	259657	1	04/23/2018 19:50	AR
1,1-Dichloroethene	BRL	2.5		ug/Kg-dry	259657	1	04/23/2018 19:50	AR
1,2,4-Trichlorobenzene	BRL	2.5		ug/Kg-dry	259657	1	04/23/2018 19:50	AR
1,2-Dibromo-3-chloropropane	BRL	2.5		ug/Kg-dry	259657	1	04/23/2018 19:50	AR
1,2-Dibromoethane	BRL	2.5		ug/Kg-dry	259657	1	04/23/2018 19:50	AR
1,2-Dichlorobenzene	BRL	2.5		ug/Kg-dry	259657	1	04/23/2018 19:50	AR
1,2-Dichloroethane	BRL	2.5		ug/Kg-dry	259657	1	04/23/2018 19:50	AR
1,2-Dichloropropane	BRL	2.5		ug/Kg-dry	259657	1	04/23/2018 19:50	AR
1,3-Dichlorobenzene	BRL	2.5		ug/Kg-dry	259657	1	04/23/2018 19:50	AR
1,4-Dichlorobenzene	BRL	2.5		ug/Kg-dry	259657	1	04/23/2018 19:50	AR
2-Butanone	BRL	25		ug/Kg-dry	259657	1	04/23/2018 19:50	AR
2-Hexanone	BRL	4.9		ug/Kg-dry	259657	1	04/23/2018 19:50	AR
4-Methyl-2-pentanone	BRL	4.9		ug/Kg-dry	259657	1	04/23/2018 19:50	AR
Acetone	BRL	49		ug/Kg-dry	259657	1	04/23/2018 19:50	AR
Benzene	BRL	2.5		ug/Kg-dry	259657	1	04/23/2018 19:50	AR
Bromodichloromethane	BRL	2.5		ug/Kg-dry	259657	1	04/23/2018 19:50	AR
Bromoform	BRL	2.5		ug/Kg-dry	259657	1	04/23/2018 19:50	AR
Bromomethane	BRL	2.5		ug/Kg-dry	259657	1	04/23/2018 19:50	AR
Carbon disulfide	BRL	4.9		ug/Kg-dry	259657	1	04/23/2018 19:50	AR
Carbon tetrachloride	BRL	2.5		ug/Kg-dry	259657	1	04/23/2018 19:50	AR
Chlorobenzene	BRL	2.5		ug/Kg-dry	259657	1	04/23/2018 19:50	AR
Chloroethane	BRL	4.9		ug/Kg-dry	259657	1	04/23/2018 19:50	AR
Chloroform	BRL	2.5		ug/Kg-dry	259657	1	04/23/2018 19:50	AR
Chloromethane	BRL	4.9		ug/Kg-dry	259657	1	04/23/2018 19:50	AR
cis-1,2-Dichloroethene	BRL	2.5		ug/Kg-dry	259657	1	04/23/2018 19:50	AR
cis-1,3-Dichloropropene	BRL	2.5		ug/Kg-dry	259657	1	04/23/2018 19:50	AR
Cyclohexane	BRL	2.5		ug/Kg-dry	259657	1	04/23/2018 19:50	AR
Dibromochloromethane	BRL	2.5		ug/Kg-dry	259657	1	04/23/2018 19:50	AR
Dichlorodifluoromethane	BRL	4.9		ug/Kg-dry	259657	1	04/23/2018 19:50	AR
Ethylbenzene	BRL	2.5		ug/Kg-dry	259657	1	04/23/2018 19:50	AR
Freon-113	BRL	4.9		ug/Kg-dry	259657	1	04/23/2018 19:50	AR
Isopropylbenzene	BRL	2.5		ug/Kg-dry	259657	1	04/23/2018 19:50	AR
m,p-Xylene	BRL	2.5		ug/Kg-dry	259657	1	04/23/2018 19:50	AR
Methyl acetate	BRL	2.5		ug/Kg-dry	259657	1	04/23/2018 19:50	AR
Methyl tert-butyl ether	BRL	2.5		ug/Kg-dry	259657	1	04/23/2018 19:50	AR
Methylcyclohexane	BRL	2.5		ug/Kg-dry	259657	1	04/23/2018 19:50	AR
Methylene chloride	BRL	9.9		ug/Kg-dry	259657	1	04/23/2018 19:50	AR
o-Xylene	BRL	2.5		ug/Kg-dry	259657	1	04/23/2018 19:50	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-8-1.5
Project Name: Rheem	Collection Date: 4/17/2018 3:10:00 PM
Lab ID: 1804H65-034	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
Styrene	BRL	2.5		ug/Kg-dry	259657	1	04/23/2018 19:50	AR
Tetrachloroethene	BRL	2.5		ug/Kg-dry	259657	1	04/23/2018 19:50	AR
Toluene	BRL	2.5		ug/Kg-dry	259657	1	04/23/2018 19:50	AR
trans-1,2-Dichloroethene	BRL	2.5		ug/Kg-dry	259657	1	04/23/2018 19:50	AR
trans-1,3-Dichloropropene	BRL	2.5		ug/Kg-dry	259657	1	04/23/2018 19:50	AR
Trichloroethene	BRL	2.5		ug/Kg-dry	259657	1	04/23/2018 19:50	AR
Trichlorofluoromethane	BRL	2.5		ug/Kg-dry	259657	1	04/23/2018 19:50	AR
Vinyl chloride	BRL	4.9		ug/Kg-dry	259657	1	04/23/2018 19:50	AR
Surr: 4-Bromofluorobenzene	89.1	65-133		%REC	259657	1	04/23/2018 19:50	AR
Surr: Dibromofluoromethane	112	75.8-119		%REC	259657	1	04/23/2018 19:50	AR
Surr: Toluene-d8	106	78.3-120		%REC	259657	1	04/23/2018 19:50	AR
PERCENT MOISTURE D2216								
Percent Moisture	20.1	0		wt%	R368387	1	04/20/2018 17:00	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-8-4
Project Name: Rheem	Collection Date: 4/17/2018 3:15:00 PM
Lab ID: 1804H65-035	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	3.5		ug/Kg-dry	259657	1	04/23/2018 20:16	AR
1,1,2,2-Tetrachloroethane	BRL	3.5		ug/Kg-dry	259657	1	04/23/2018 20:16	AR
1,1,2-Trichloroethane	BRL	3.5		ug/Kg-dry	259657	1	04/23/2018 20:16	AR
1,1-Dichloroethane	BRL	3.5		ug/Kg-dry	259657	1	04/23/2018 20:16	AR
1,1-Dichloroethene	BRL	3.5		ug/Kg-dry	259657	1	04/23/2018 20:16	AR
1,2,4-Trichlorobenzene	BRL	3.5		ug/Kg-dry	259657	1	04/23/2018 20:16	AR
1,2-Dibromo-3-chloropropane	BRL	3.5		ug/Kg-dry	259657	1	04/23/2018 20:16	AR
1,2-Dibromoethane	BRL	3.5		ug/Kg-dry	259657	1	04/23/2018 20:16	AR
1,2-Dichlorobenzene	BRL	3.5		ug/Kg-dry	259657	1	04/23/2018 20:16	AR
1,2-Dichloroethane	BRL	3.5		ug/Kg-dry	259657	1	04/23/2018 20:16	AR
1,2-Dichloropropane	BRL	3.5		ug/Kg-dry	259657	1	04/23/2018 20:16	AR
1,3-Dichlorobenzene	BRL	3.5		ug/Kg-dry	259657	1	04/23/2018 20:16	AR
1,4-Dichlorobenzene	BRL	3.5		ug/Kg-dry	259657	1	04/23/2018 20:16	AR
2-Butanone	BRL	35		ug/Kg-dry	259657	1	04/23/2018 20:16	AR
2-Hexanone	BRL	7.0		ug/Kg-dry	259657	1	04/23/2018 20:16	AR
4-Methyl-2-pentanone	BRL	7.0		ug/Kg-dry	259657	1	04/23/2018 20:16	AR
Acetone	BRL	70		ug/Kg-dry	259657	1	04/23/2018 20:16	AR
Benzene	BRL	3.5		ug/Kg-dry	259657	1	04/23/2018 20:16	AR
Bromodichloromethane	BRL	3.5		ug/Kg-dry	259657	1	04/23/2018 20:16	AR
Bromoform	BRL	3.5		ug/Kg-dry	259657	1	04/23/2018 20:16	AR
Bromomethane	BRL	3.5		ug/Kg-dry	259657	1	04/23/2018 20:16	AR
Carbon disulfide	BRL	7.0		ug/Kg-dry	259657	1	04/23/2018 20:16	AR
Carbon tetrachloride	BRL	3.5		ug/Kg-dry	259657	1	04/23/2018 20:16	AR
Chlorobenzene	BRL	3.5		ug/Kg-dry	259657	1	04/23/2018 20:16	AR
Chloroethane	BRL	7.0		ug/Kg-dry	259657	1	04/23/2018 20:16	AR
Chloroform	BRL	3.5		ug/Kg-dry	259657	1	04/23/2018 20:16	AR
Chloromethane	BRL	7.0		ug/Kg-dry	259657	1	04/23/2018 20:16	AR
cis-1,2-Dichloroethene	BRL	3.5		ug/Kg-dry	259657	1	04/23/2018 20:16	AR
cis-1,3-Dichloropropene	BRL	3.5		ug/Kg-dry	259657	1	04/23/2018 20:16	AR
Cyclohexane	BRL	3.5		ug/Kg-dry	259657	1	04/23/2018 20:16	AR
Dibromochloromethane	BRL	3.5		ug/Kg-dry	259657	1	04/23/2018 20:16	AR
Dichlorodifluoromethane	BRL	7.0		ug/Kg-dry	259657	1	04/23/2018 20:16	AR
Ethylbenzene	BRL	3.5		ug/Kg-dry	259657	1	04/23/2018 20:16	AR
Freon-113	BRL	7.0		ug/Kg-dry	259657	1	04/23/2018 20:16	AR
Isopropylbenzene	BRL	3.5		ug/Kg-dry	259657	1	04/23/2018 20:16	AR
m,p-Xylene	BRL	3.5		ug/Kg-dry	259657	1	04/23/2018 20:16	AR
Methyl acetate	BRL	3.5		ug/Kg-dry	259657	1	04/23/2018 20:16	AR
Methyl tert-butyl ether	BRL	3.5		ug/Kg-dry	259657	1	04/23/2018 20:16	AR
Methylcyclohexane	BRL	3.5		ug/Kg-dry	259657	1	04/23/2018 20:16	AR
Methylene chloride	BRL	14		ug/Kg-dry	259657	1	04/23/2018 20:16	AR
o-Xylene	BRL	3.5		ug/Kg-dry	259657	1	04/23/2018 20:16	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-8-4
Project Name: Rheem	Collection Date: 4/17/2018 3:15:00 PM
Lab ID: 1804H65-035	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
Styrene	BRL	3.5		ug/Kg-dry	259657	1	04/23/2018 20:16	AR
Tetrachloroethene	BRL	3.5		ug/Kg-dry	259657	1	04/23/2018 20:16	AR
Toluene	BRL	3.5		ug/Kg-dry	259657	1	04/23/2018 20:16	AR
trans-1,2-Dichloroethene	BRL	3.5		ug/Kg-dry	259657	1	04/23/2018 20:16	AR
trans-1,3-Dichloropropene	BRL	3.5		ug/Kg-dry	259657	1	04/23/2018 20:16	AR
Trichloroethene	BRL	3.5		ug/Kg-dry	259657	1	04/23/2018 20:16	AR
Trichlorofluoromethane	BRL	3.5		ug/Kg-dry	259657	1	04/23/2018 20:16	AR
Vinyl chloride	BRL	7.0		ug/Kg-dry	259657	1	04/23/2018 20:16	AR
Surr: 4-Bromofluorobenzene	88.8	65-133		%REC	259657	1	04/23/2018 20:16	AR
Surr: Dibromofluoromethane	108	75.8-119		%REC	259657	1	04/23/2018 20:16	AR
Surr: Toluene-d8	107	78.3-120		%REC	259657	1	04/23/2018 20:16	AR
PERCENT MOISTURE D2216								
Percent Moisture	20.3	0		wt%	R368387	1	04/20/2018 17:00	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-8-8
Project Name: Rheem	Collection Date: 4/17/2018 3:20:00 PM
Lab ID: 1804H65-036	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	3.8		ug/Kg-dry	259657	1	04/23/2018 20:42	AR
1,1,2,2-Tetrachloroethane	BRL	3.8		ug/Kg-dry	259657	1	04/23/2018 20:42	AR
1,1,2-Trichloroethane	BRL	3.8		ug/Kg-dry	259657	1	04/23/2018 20:42	AR
1,1-Dichloroethane	BRL	3.8		ug/Kg-dry	259657	1	04/23/2018 20:42	AR
1,1-Dichloroethene	BRL	3.8		ug/Kg-dry	259657	1	04/23/2018 20:42	AR
1,2,4-Trichlorobenzene	BRL	3.8		ug/Kg-dry	259657	1	04/23/2018 20:42	AR
1,2-Dibromo-3-chloropropane	BRL	3.8		ug/Kg-dry	259657	1	04/23/2018 20:42	AR
1,2-Dibromoethane	BRL	3.8		ug/Kg-dry	259657	1	04/23/2018 20:42	AR
1,2-Dichlorobenzene	BRL	3.8		ug/Kg-dry	259657	1	04/23/2018 20:42	AR
1,2-Dichloroethane	BRL	3.8		ug/Kg-dry	259657	1	04/23/2018 20:42	AR
1,2-Dichloropropane	BRL	3.8		ug/Kg-dry	259657	1	04/23/2018 20:42	AR
1,3-Dichlorobenzene	BRL	3.8		ug/Kg-dry	259657	1	04/23/2018 20:42	AR
1,4-Dichlorobenzene	BRL	3.8		ug/Kg-dry	259657	1	04/23/2018 20:42	AR
2-Butanone	BRL	38		ug/Kg-dry	259657	1	04/23/2018 20:42	AR
2-Hexanone	BRL	7.6		ug/Kg-dry	259657	1	04/23/2018 20:42	AR
4-Methyl-2-pentanone	BRL	7.6		ug/Kg-dry	259657	1	04/23/2018 20:42	AR
Acetone	BRL	76		ug/Kg-dry	259657	1	04/23/2018 20:42	AR
Benzene	BRL	3.8		ug/Kg-dry	259657	1	04/23/2018 20:42	AR
Bromodichloromethane	BRL	3.8		ug/Kg-dry	259657	1	04/23/2018 20:42	AR
Bromoform	BRL	3.8		ug/Kg-dry	259657	1	04/23/2018 20:42	AR
Bromomethane	BRL	3.8		ug/Kg-dry	259657	1	04/23/2018 20:42	AR
Carbon disulfide	BRL	7.6		ug/Kg-dry	259657	1	04/23/2018 20:42	AR
Carbon tetrachloride	BRL	3.8		ug/Kg-dry	259657	1	04/23/2018 20:42	AR
Chlorobenzene	BRL	3.8		ug/Kg-dry	259657	1	04/23/2018 20:42	AR
Chloroethane	BRL	7.6		ug/Kg-dry	259657	1	04/23/2018 20:42	AR
Chloroform	BRL	3.8		ug/Kg-dry	259657	1	04/23/2018 20:42	AR
Chloromethane	BRL	7.6		ug/Kg-dry	259657	1	04/23/2018 20:42	AR
cis-1,2-Dichloroethene	BRL	3.8		ug/Kg-dry	259657	1	04/23/2018 20:42	AR
cis-1,3-Dichloropropene	BRL	3.8		ug/Kg-dry	259657	1	04/23/2018 20:42	AR
Cyclohexane	BRL	3.8		ug/Kg-dry	259657	1	04/23/2018 20:42	AR
Dibromochloromethane	BRL	3.8		ug/Kg-dry	259657	1	04/23/2018 20:42	AR
Dichlorodifluoromethane	BRL	7.6		ug/Kg-dry	259657	1	04/23/2018 20:42	AR
Ethylbenzene	BRL	3.8		ug/Kg-dry	259657	1	04/23/2018 20:42	AR
Freon-113	BRL	7.6		ug/Kg-dry	259657	1	04/23/2018 20:42	AR
Isopropylbenzene	BRL	3.8		ug/Kg-dry	259657	1	04/23/2018 20:42	AR
m,p-Xylene	BRL	3.8		ug/Kg-dry	259657	1	04/23/2018 20:42	AR
Methyl acetate	BRL	3.8		ug/Kg-dry	259657	1	04/23/2018 20:42	AR
Methyl tert-butyl ether	BRL	3.8		ug/Kg-dry	259657	1	04/23/2018 20:42	AR
Methylcyclohexane	BRL	3.8		ug/Kg-dry	259657	1	04/23/2018 20:42	AR
Methylene chloride	BRL	15		ug/Kg-dry	259657	1	04/23/2018 20:42	AR
o-Xylene	BRL	3.8		ug/Kg-dry	259657	1	04/23/2018 20:42	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-8-8
Project Name: Rheem	Collection Date: 4/17/2018 3:20:00 PM
Lab ID: 1804H65-036	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
Styrene	BRL	3.8		ug/Kg-dry	259657	1	04/23/2018 20:42	AR
Tetrachloroethene	BRL	3.8		ug/Kg-dry	259657	1	04/23/2018 20:42	AR
Toluene	BRL	3.8		ug/Kg-dry	259657	1	04/23/2018 20:42	AR
trans-1,2-Dichloroethene	BRL	3.8		ug/Kg-dry	259657	1	04/23/2018 20:42	AR
trans-1,3-Dichloropropene	BRL	3.8		ug/Kg-dry	259657	1	04/23/2018 20:42	AR
Trichloroethene	BRL	3.8		ug/Kg-dry	259657	1	04/23/2018 20:42	AR
Trichlorofluoromethane	BRL	3.8		ug/Kg-dry	259657	1	04/23/2018 20:42	AR
Vinyl chloride	BRL	7.6		ug/Kg-dry	259657	1	04/23/2018 20:42	AR
Surr: 4-Bromofluorobenzene	89.6	65-133		%REC	259657	1	04/23/2018 20:42	AR
Surr: Dibromofluoromethane	104	75.8-119		%REC	259657	1	04/23/2018 20:42	AR
Surr: Toluene-d8	107	78.3-120		%REC	259657	1	04/23/2018 20:42	AR
PERCENT MOISTURE D2216								
Percent Moisture	20.0	0		wt%	R368387	1	04/20/2018 17:00	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-8-13
Project Name: Rheem	Collection Date: 4/17/2018 3:25:00 PM
Lab ID: 1804H65-037	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B			(SW5035)					
1,1,1-Trichloroethane	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 21:35	AR
1,1,2,2-Tetrachloroethane	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 21:35	AR
1,1,2-Trichloroethane	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 21:35	AR
1,1-Dichloroethane	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 21:35	AR
1,1-Dichloroethene	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 21:35	AR
1,2,4-Trichlorobenzene	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 21:35	AR
1,2-Dibromo-3-chloropropane	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 21:35	AR
1,2-Dibromoethane	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 21:35	AR
1,2-Dichlorobenzene	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 21:35	AR
1,2-Dichloroethane	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 21:35	AR
1,2-Dichloropropane	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 21:35	AR
1,3-Dichlorobenzene	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 21:35	AR
1,4-Dichlorobenzene	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 21:35	AR
2-Butanone	BRL	37		ug/Kg-dry	259657	1	04/23/2018 21:35	AR
2-Hexanone	BRL	7.4		ug/Kg-dry	259657	1	04/23/2018 21:35	AR
4-Methyl-2-pentanone	BRL	7.4		ug/Kg-dry	259657	1	04/23/2018 21:35	AR
Acetone	BRL	74		ug/Kg-dry	259657	1	04/23/2018 21:35	AR
Benzene	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 21:35	AR
Bromodichloromethane	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 21:35	AR
Bromoform	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 21:35	AR
Bromomethane	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 21:35	AR
Carbon disulfide	BRL	7.4		ug/Kg-dry	259657	1	04/23/2018 21:35	AR
Carbon tetrachloride	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 21:35	AR
Chlorobenzene	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 21:35	AR
Chloroethane	BRL	7.4		ug/Kg-dry	259657	1	04/23/2018 21:35	AR
Chloroform	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 21:35	AR
Chloromethane	BRL	7.4		ug/Kg-dry	259657	1	04/23/2018 21:35	AR
cis-1,2-Dichloroethene	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 21:35	AR
cis-1,3-Dichloropropene	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 21:35	AR
Cyclohexane	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 21:35	AR
Dibromochloromethane	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 21:35	AR
Dichlorodifluoromethane	BRL	7.4		ug/Kg-dry	259657	1	04/23/2018 21:35	AR
Ethylbenzene	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 21:35	AR
Freon-113	BRL	7.4		ug/Kg-dry	259657	1	04/23/2018 21:35	AR
Isopropylbenzene	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 21:35	AR
m,p-Xylene	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 21:35	AR
Methyl acetate	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 21:35	AR
Methyl tert-butyl ether	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 21:35	AR
Methylcyclohexane	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 21:35	AR
Methylene chloride	BRL	15		ug/Kg-dry	259657	1	04/23/2018 21:35	AR
o-Xylene	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 21:35	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-8-13
Project Name: Rheem	Collection Date: 4/17/2018 3:25:00 PM
Lab ID: 1804H65-037	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
Styrene	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 21:35	AR
Tetrachloroethene	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 21:35	AR
Toluene	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 21:35	AR
trans-1,2-Dichloroethene	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 21:35	AR
trans-1,3-Dichloropropene	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 21:35	AR
Trichloroethene	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 21:35	AR
Trichlorofluoromethane	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 21:35	AR
Vinyl chloride	BRL	7.4		ug/Kg-dry	259657	1	04/23/2018 21:35	AR
Surr: 4-Bromofluorobenzene	91.3	65-133		%REC	259657	1	04/23/2018 21:35	AR
Surr: Dibromofluoromethane	113	75.8-119		%REC	259657	1	04/23/2018 21:35	AR
Surr: Toluene-d8	106	78.3-120		%REC	259657	1	04/23/2018 21:35	AR
PERCENT MOISTURE D2216								
Percent Moisture	21.7	0		wt%	R368387	1	04/20/2018 17:00	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-3-0.5
Project Name: Rheem	Collection Date: 4/17/2018 3:35:00 PM
Lab ID: 1804H65-038	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	3.8		ug/Kg-dry	259657	1	04/23/2018 22:02	AR
1,1,2,2-Tetrachloroethane	BRL	3.8		ug/Kg-dry	259657	1	04/23/2018 22:02	AR
1,1,2-Trichloroethane	BRL	3.8		ug/Kg-dry	259657	1	04/23/2018 22:02	AR
1,1-Dichloroethane	BRL	3.8		ug/Kg-dry	259657	1	04/23/2018 22:02	AR
1,1-Dichloroethene	BRL	3.8		ug/Kg-dry	259657	1	04/23/2018 22:02	AR
1,2,4-Trichlorobenzene	BRL	3.8		ug/Kg-dry	259657	1	04/23/2018 22:02	AR
1,2-Dibromo-3-chloropropane	BRL	3.8		ug/Kg-dry	259657	1	04/23/2018 22:02	AR
1,2-Dibromoethane	BRL	3.8		ug/Kg-dry	259657	1	04/23/2018 22:02	AR
1,2-Dichlorobenzene	BRL	3.8		ug/Kg-dry	259657	1	04/23/2018 22:02	AR
1,2-Dichloroethane	BRL	3.8		ug/Kg-dry	259657	1	04/23/2018 22:02	AR
1,2-Dichloropropane	BRL	3.8		ug/Kg-dry	259657	1	04/23/2018 22:02	AR
1,3-Dichlorobenzene	BRL	3.8		ug/Kg-dry	259657	1	04/23/2018 22:02	AR
1,4-Dichlorobenzene	BRL	3.8		ug/Kg-dry	259657	1	04/23/2018 22:02	AR
2-Butanone	BRL	38		ug/Kg-dry	259657	1	04/23/2018 22:02	AR
2-Hexanone	BRL	7.6		ug/Kg-dry	259657	1	04/23/2018 22:02	AR
4-Methyl-2-pentanone	BRL	7.6		ug/Kg-dry	259657	1	04/23/2018 22:02	AR
Acetone	BRL	76		ug/Kg-dry	259657	1	04/23/2018 22:02	AR
Benzene	BRL	3.8		ug/Kg-dry	259657	1	04/23/2018 22:02	AR
Bromodichloromethane	BRL	3.8		ug/Kg-dry	259657	1	04/23/2018 22:02	AR
Bromoform	BRL	3.8		ug/Kg-dry	259657	1	04/23/2018 22:02	AR
Bromomethane	BRL	3.8		ug/Kg-dry	259657	1	04/23/2018 22:02	AR
Carbon disulfide	BRL	7.6		ug/Kg-dry	259657	1	04/23/2018 22:02	AR
Carbon tetrachloride	BRL	3.8		ug/Kg-dry	259657	1	04/23/2018 22:02	AR
Chlorobenzene	BRL	3.8		ug/Kg-dry	259657	1	04/23/2018 22:02	AR
Chloroethane	BRL	7.6		ug/Kg-dry	259657	1	04/23/2018 22:02	AR
Chloroform	BRL	3.8		ug/Kg-dry	259657	1	04/23/2018 22:02	AR
Chloromethane	BRL	7.6		ug/Kg-dry	259657	1	04/23/2018 22:02	AR
cis-1,2-Dichloroethene	BRL	3.8		ug/Kg-dry	259657	1	04/23/2018 22:02	AR
cis-1,3-Dichloropropene	BRL	3.8		ug/Kg-dry	259657	1	04/23/2018 22:02	AR
Cyclohexane	BRL	3.8		ug/Kg-dry	259657	1	04/23/2018 22:02	AR
Dibromochloromethane	BRL	3.8		ug/Kg-dry	259657	1	04/23/2018 22:02	AR
Dichlorodifluoromethane	BRL	7.6		ug/Kg-dry	259657	1	04/23/2018 22:02	AR
Ethylbenzene	BRL	3.8		ug/Kg-dry	259657	1	04/23/2018 22:02	AR
Freon-113	BRL	7.6		ug/Kg-dry	259657	1	04/23/2018 22:02	AR
Isopropylbenzene	BRL	3.8		ug/Kg-dry	259657	1	04/23/2018 22:02	AR
m,p-Xylene	BRL	3.8		ug/Kg-dry	259657	1	04/23/2018 22:02	AR
Methyl acetate	BRL	3.8		ug/Kg-dry	259657	1	04/23/2018 22:02	AR
Methyl tert-butyl ether	BRL	3.8		ug/Kg-dry	259657	1	04/23/2018 22:02	AR
Methylcyclohexane	BRL	3.8		ug/Kg-dry	259657	1	04/23/2018 22:02	AR
Methylene chloride	BRL	15		ug/Kg-dry	259657	1	04/23/2018 22:02	AR
o-Xylene	BRL	3.8		ug/Kg-dry	259657	1	04/23/2018 22:02	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-3-0.5
Project Name: Rheem	Collection Date: 4/17/2018 3:35:00 PM
Lab ID: 1804H65-038	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
Styrene	BRL	3.8		ug/Kg-dry	259657	1	04/23/2018 22:02	AR
Tetrachloroethene	BRL	3.8		ug/Kg-dry	259657	1	04/23/2018 22:02	AR
Toluene	BRL	3.8		ug/Kg-dry	259657	1	04/23/2018 22:02	AR
trans-1,2-Dichloroethene	BRL	3.8		ug/Kg-dry	259657	1	04/23/2018 22:02	AR
trans-1,3-Dichloropropene	BRL	3.8		ug/Kg-dry	259657	1	04/23/2018 22:02	AR
Trichloroethene	BRL	3.8		ug/Kg-dry	259657	1	04/23/2018 22:02	AR
Trichlorofluoromethane	BRL	3.8		ug/Kg-dry	259657	1	04/23/2018 22:02	AR
Vinyl chloride	BRL	7.6		ug/Kg-dry	259657	1	04/23/2018 22:02	AR
Surr: 4-Bromofluorobenzene	91.5	65-133		%REC	259657	1	04/23/2018 22:02	AR
Surr: Dibromofluoromethane	104	75.8-119		%REC	259657	1	04/23/2018 22:02	AR
Surr: Toluene-d8	107	78.3-120		%REC	259657	1	04/23/2018 22:02	AR
PERCENT MOISTURE D2216								
Percent Moisture	23.8	0		wt%	R368387	1	04/20/2018 17:00	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-3-1.5
Project Name: Rheem	Collection Date: 4/17/2018 3:40:00 PM
Lab ID: 1804H65-039	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	3.9		ug/Kg-dry	259657	1	04/23/2018 22:28	AR
1,1,2,2-Tetrachloroethane	BRL	3.9		ug/Kg-dry	259657	1	04/23/2018 22:28	AR
1,1,2-Trichloroethane	BRL	3.9		ug/Kg-dry	259657	1	04/23/2018 22:28	AR
1,1-Dichloroethane	BRL	3.9		ug/Kg-dry	259657	1	04/23/2018 22:28	AR
1,1-Dichloroethene	BRL	3.9		ug/Kg-dry	259657	1	04/23/2018 22:28	AR
1,2,4-Trichlorobenzene	BRL	3.9		ug/Kg-dry	259657	1	04/23/2018 22:28	AR
1,2-Dibromo-3-chloropropane	BRL	3.9		ug/Kg-dry	259657	1	04/23/2018 22:28	AR
1,2-Dibromoethane	BRL	3.9		ug/Kg-dry	259657	1	04/23/2018 22:28	AR
1,2-Dichlorobenzene	BRL	3.9		ug/Kg-dry	259657	1	04/23/2018 22:28	AR
1,2-Dichloroethane	BRL	3.9		ug/Kg-dry	259657	1	04/23/2018 22:28	AR
1,2-Dichloropropane	BRL	3.9		ug/Kg-dry	259657	1	04/23/2018 22:28	AR
1,3-Dichlorobenzene	BRL	3.9		ug/Kg-dry	259657	1	04/23/2018 22:28	AR
1,4-Dichlorobenzene	BRL	3.9		ug/Kg-dry	259657	1	04/23/2018 22:28	AR
2-Butanone	BRL	39		ug/Kg-dry	259657	1	04/23/2018 22:28	AR
2-Hexanone	BRL	7.8		ug/Kg-dry	259657	1	04/23/2018 22:28	AR
4-Methyl-2-pentanone	BRL	7.8		ug/Kg-dry	259657	1	04/23/2018 22:28	AR
Acetone	BRL	78		ug/Kg-dry	259657	1	04/23/2018 22:28	AR
Benzene	BRL	3.9		ug/Kg-dry	259657	1	04/23/2018 22:28	AR
Bromodichloromethane	BRL	3.9		ug/Kg-dry	259657	1	04/23/2018 22:28	AR
Bromoform	BRL	3.9		ug/Kg-dry	259657	1	04/23/2018 22:28	AR
Bromomethane	BRL	3.9		ug/Kg-dry	259657	1	04/23/2018 22:28	AR
Carbon disulfide	BRL	7.8		ug/Kg-dry	259657	1	04/23/2018 22:28	AR
Carbon tetrachloride	BRL	3.9		ug/Kg-dry	259657	1	04/23/2018 22:28	AR
Chlorobenzene	BRL	3.9		ug/Kg-dry	259657	1	04/23/2018 22:28	AR
Chloroethane	BRL	7.8		ug/Kg-dry	259657	1	04/23/2018 22:28	AR
Chloroform	BRL	3.9		ug/Kg-dry	259657	1	04/23/2018 22:28	AR
Chloromethane	BRL	7.8		ug/Kg-dry	259657	1	04/23/2018 22:28	AR
cis-1,2-Dichloroethene	BRL	3.9		ug/Kg-dry	259657	1	04/23/2018 22:28	AR
cis-1,3-Dichloropropene	BRL	3.9		ug/Kg-dry	259657	1	04/23/2018 22:28	AR
Cyclohexane	BRL	3.9		ug/Kg-dry	259657	1	04/23/2018 22:28	AR
Dibromochloromethane	BRL	3.9		ug/Kg-dry	259657	1	04/23/2018 22:28	AR
Dichlorodifluoromethane	BRL	7.8		ug/Kg-dry	259657	1	04/23/2018 22:28	AR
Ethylbenzene	BRL	3.9		ug/Kg-dry	259657	1	04/23/2018 22:28	AR
Freon-113	BRL	7.8		ug/Kg-dry	259657	1	04/23/2018 22:28	AR
Isopropylbenzene	BRL	3.9		ug/Kg-dry	259657	1	04/23/2018 22:28	AR
m,p-Xylene	BRL	3.9		ug/Kg-dry	259657	1	04/23/2018 22:28	AR
Methyl acetate	BRL	3.9		ug/Kg-dry	259657	1	04/23/2018 22:28	AR
Methyl tert-butyl ether	BRL	3.9		ug/Kg-dry	259657	1	04/23/2018 22:28	AR
Methylcyclohexane	BRL	3.9		ug/Kg-dry	259657	1	04/23/2018 22:28	AR
Methylene chloride	BRL	16		ug/Kg-dry	259657	1	04/23/2018 22:28	AR
o-Xylene	BRL	3.9		ug/Kg-dry	259657	1	04/23/2018 22:28	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-3-1.5
Project Name: Rheem	Collection Date: 4/17/2018 3:40:00 PM
Lab ID: 1804H65-039	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
Styrene	BRL	3.9		ug/Kg-dry	259657	1	04/23/2018 22:28	AR
Tetrachloroethene	BRL	3.9		ug/Kg-dry	259657	1	04/23/2018 22:28	AR
Toluene	BRL	3.9		ug/Kg-dry	259657	1	04/23/2018 22:28	AR
trans-1,2-Dichloroethene	BRL	3.9		ug/Kg-dry	259657	1	04/23/2018 22:28	AR
trans-1,3-Dichloropropene	BRL	3.9		ug/Kg-dry	259657	1	04/23/2018 22:28	AR
Trichloroethene	BRL	3.9		ug/Kg-dry	259657	1	04/23/2018 22:28	AR
Trichlorofluoromethane	BRL	3.9		ug/Kg-dry	259657	1	04/23/2018 22:28	AR
Vinyl chloride	BRL	7.8		ug/Kg-dry	259657	1	04/23/2018 22:28	AR
Surr: 4-Bromofluorobenzene	91.4	65-133		%REC	259657	1	04/23/2018 22:28	AR
Surr: Dibromofluoromethane	110	75.8-119		%REC	259657	1	04/23/2018 22:28	AR
Surr: Toluene-d8	109	78.3-120		%REC	259657	1	04/23/2018 22:28	AR
PERCENT MOISTURE D2216								
Percent Moisture	24.8	0		wt%	R368387	1	04/20/2018 17:00	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-3-4
Project Name: Rheem	Collection Date: 4/17/2018 3:50:00 PM
Lab ID: 1804H65-040	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	4.2		ug/Kg-dry	259657	1	04/23/2018 22:54	AR
1,1,2,2-Tetrachloroethane	BRL	4.2		ug/Kg-dry	259657	1	04/23/2018 22:54	AR
1,1,2-Trichloroethane	BRL	4.2		ug/Kg-dry	259657	1	04/23/2018 22:54	AR
1,1-Dichloroethane	BRL	4.2		ug/Kg-dry	259657	1	04/23/2018 22:54	AR
1,1-Dichloroethene	BRL	4.2		ug/Kg-dry	259657	1	04/23/2018 22:54	AR
1,2,4-Trichlorobenzene	BRL	4.2		ug/Kg-dry	259657	1	04/23/2018 22:54	AR
1,2-Dibromo-3-chloropropane	BRL	4.2		ug/Kg-dry	259657	1	04/23/2018 22:54	AR
1,2-Dibromoethane	BRL	4.2		ug/Kg-dry	259657	1	04/23/2018 22:54	AR
1,2-Dichlorobenzene	BRL	4.2		ug/Kg-dry	259657	1	04/23/2018 22:54	AR
1,2-Dichloroethane	BRL	4.2		ug/Kg-dry	259657	1	04/23/2018 22:54	AR
1,2-Dichloropropane	BRL	4.2		ug/Kg-dry	259657	1	04/23/2018 22:54	AR
1,3-Dichlorobenzene	BRL	4.2		ug/Kg-dry	259657	1	04/23/2018 22:54	AR
1,4-Dichlorobenzene	BRL	4.2		ug/Kg-dry	259657	1	04/23/2018 22:54	AR
2-Butanone	BRL	42		ug/Kg-dry	259657	1	04/23/2018 22:54	AR
2-Hexanone	BRL	8.3		ug/Kg-dry	259657	1	04/23/2018 22:54	AR
4-Methyl-2-pentanone	BRL	8.3		ug/Kg-dry	259657	1	04/23/2018 22:54	AR
Acetone	BRL	83		ug/Kg-dry	259657	1	04/23/2018 22:54	AR
Benzene	BRL	4.2		ug/Kg-dry	259657	1	04/23/2018 22:54	AR
Bromodichloromethane	BRL	4.2		ug/Kg-dry	259657	1	04/23/2018 22:54	AR
Bromoform	BRL	4.2		ug/Kg-dry	259657	1	04/23/2018 22:54	AR
Bromomethane	BRL	4.2		ug/Kg-dry	259657	1	04/23/2018 22:54	AR
Carbon disulfide	BRL	8.3		ug/Kg-dry	259657	1	04/23/2018 22:54	AR
Carbon tetrachloride	BRL	4.2		ug/Kg-dry	259657	1	04/23/2018 22:54	AR
Chlorobenzene	BRL	4.2		ug/Kg-dry	259657	1	04/23/2018 22:54	AR
Chloroethane	BRL	8.3		ug/Kg-dry	259657	1	04/23/2018 22:54	AR
Chloroform	BRL	4.2		ug/Kg-dry	259657	1	04/23/2018 22:54	AR
Chloromethane	BRL	8.3		ug/Kg-dry	259657	1	04/23/2018 22:54	AR
cis-1,2-Dichloroethene	BRL	4.2		ug/Kg-dry	259657	1	04/23/2018 22:54	AR
cis-1,3-Dichloropropene	BRL	4.2		ug/Kg-dry	259657	1	04/23/2018 22:54	AR
Cyclohexane	BRL	4.2		ug/Kg-dry	259657	1	04/23/2018 22:54	AR
Dibromochloromethane	BRL	4.2		ug/Kg-dry	259657	1	04/23/2018 22:54	AR
Dichlorodifluoromethane	BRL	8.3		ug/Kg-dry	259657	1	04/23/2018 22:54	AR
Ethylbenzene	BRL	4.2		ug/Kg-dry	259657	1	04/23/2018 22:54	AR
Freon-113	BRL	8.3		ug/Kg-dry	259657	1	04/23/2018 22:54	AR
Isopropylbenzene	BRL	4.2		ug/Kg-dry	259657	1	04/23/2018 22:54	AR
m,p-Xylene	BRL	4.2		ug/Kg-dry	259657	1	04/23/2018 22:54	AR
Methyl acetate	BRL	4.2		ug/Kg-dry	259657	1	04/23/2018 22:54	AR
Methyl tert-butyl ether	BRL	4.2		ug/Kg-dry	259657	1	04/23/2018 22:54	AR
Methylcyclohexane	BRL	4.2		ug/Kg-dry	259657	1	04/23/2018 22:54	AR
Methylene chloride	BRL	17		ug/Kg-dry	259657	1	04/23/2018 22:54	AR
o-Xylene	BRL	4.2		ug/Kg-dry	259657	1	04/23/2018 22:54	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-3-4
Project Name: Rheem	Collection Date: 4/17/2018 3:50:00 PM
Lab ID: 1804H65-040	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B			(SW5035)					
Styrene	BRL	4.2		ug/Kg-dry	259657	1	04/23/2018 22:54	AR
Tetrachloroethene	BRL	4.2		ug/Kg-dry	259657	1	04/23/2018 22:54	AR
Toluene	BRL	4.2		ug/Kg-dry	259657	1	04/23/2018 22:54	AR
trans-1,2-Dichloroethene	BRL	4.2		ug/Kg-dry	259657	1	04/23/2018 22:54	AR
trans-1,3-Dichloropropene	BRL	4.2		ug/Kg-dry	259657	1	04/23/2018 22:54	AR
Trichloroethene	BRL	4.2		ug/Kg-dry	259657	1	04/23/2018 22:54	AR
Trichlorofluoromethane	BRL	4.2		ug/Kg-dry	259657	1	04/23/2018 22:54	AR
Vinyl chloride	BRL	8.3		ug/Kg-dry	259657	1	04/23/2018 22:54	AR
Surr: 4-Bromofluorobenzene	90.9	65-133		%REC	259657	1	04/23/2018 22:54	AR
Surr: Dibromofluoromethane	108	75.8-119		%REC	259657	1	04/23/2018 22:54	AR
Surr: Toluene-d8	109	78.3-120		%REC	259657	1	04/23/2018 22:54	AR
PERCENT MOISTURE D2216								
Percent Moisture	22.8	0		wt%	R368387	1	04/20/2018 17:00	NS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-3-8
Project Name: Rheem	Collection Date: 4/17/2018 3:55:00 PM
Lab ID: 1804H65-041	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 23:21	AR
1,1,2,2-Tetrachloroethane	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 23:21	AR
1,1,2-Trichloroethane	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 23:21	AR
1,1-Dichloroethane	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 23:21	AR
1,1-Dichloroethene	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 23:21	AR
1,2,4-Trichlorobenzene	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 23:21	AR
1,2-Dibromo-3-chloropropane	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 23:21	AR
1,2-Dibromoethane	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 23:21	AR
1,2-Dichlorobenzene	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 23:21	AR
1,2-Dichloroethane	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 23:21	AR
1,2-Dichloropropane	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 23:21	AR
1,3-Dichlorobenzene	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 23:21	AR
1,4-Dichlorobenzene	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 23:21	AR
2-Butanone	BRL	37		ug/Kg-dry	259657	1	04/23/2018 23:21	AR
2-Hexanone	BRL	7.3		ug/Kg-dry	259657	1	04/23/2018 23:21	AR
4-Methyl-2-pentanone	BRL	7.3		ug/Kg-dry	259657	1	04/23/2018 23:21	AR
Acetone	BRL	73		ug/Kg-dry	259657	1	04/23/2018 23:21	AR
Benzene	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 23:21	AR
Bromodichloromethane	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 23:21	AR
Bromoform	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 23:21	AR
Bromomethane	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 23:21	AR
Carbon disulfide	BRL	7.3		ug/Kg-dry	259657	1	04/23/2018 23:21	AR
Carbon tetrachloride	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 23:21	AR
Chlorobenzene	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 23:21	AR
Chloroethane	BRL	7.3		ug/Kg-dry	259657	1	04/23/2018 23:21	AR
Chloroform	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 23:21	AR
Chloromethane	BRL	7.3		ug/Kg-dry	259657	1	04/23/2018 23:21	AR
cis-1,2-Dichloroethene	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 23:21	AR
cis-1,3-Dichloropropene	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 23:21	AR
Cyclohexane	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 23:21	AR
Dibromochloromethane	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 23:21	AR
Dichlorodifluoromethane	BRL	7.3		ug/Kg-dry	259657	1	04/23/2018 23:21	AR
Ethylbenzene	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 23:21	AR
Freon-113	BRL	7.3		ug/Kg-dry	259657	1	04/23/2018 23:21	AR
Isopropylbenzene	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 23:21	AR
m,p-Xylene	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 23:21	AR
Methyl acetate	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 23:21	AR
Methyl tert-butyl ether	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 23:21	AR
Methylcyclohexane	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 23:21	AR
Methylene chloride	BRL	15		ug/Kg-dry	259657	1	04/23/2018 23:21	AR
o-Xylene	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 23:21	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-3-8
Project Name: Rheem	Collection Date: 4/17/2018 3:55:00 PM
Lab ID: 1804H65-041	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5035)			
Styrene	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 23:21	AR
Tetrachloroethene	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 23:21	AR
Toluene	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 23:21	AR
trans-1,2-Dichloroethene	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 23:21	AR
trans-1,3-Dichloropropene	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 23:21	AR
Trichloroethene	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 23:21	AR
Trichlorofluoromethane	BRL	3.7		ug/Kg-dry	259657	1	04/23/2018 23:21	AR
Vinyl chloride	BRL	7.3		ug/Kg-dry	259657	1	04/23/2018 23:21	AR
Surr: 4-Bromofluorobenzene	91.8	65-133		%REC	259657	1	04/23/2018 23:21	AR
Surr: Dibromofluoromethane	108	75.8-119		%REC	259657	1	04/23/2018 23:21	AR
Surr: Toluene-d8	105	78.3-120		%REC	259657	1	04/23/2018 23:21	AR
PERCENT MOISTURE D2216								
Percent Moisture	23.7	0		wt%	R368387	1	04/20/2018 17:00	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-3-13
Project Name: Rheem	Collection Date: 4/17/2018 4:00:00 PM
Lab ID: 1804H65-042	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	3.5		ug/Kg-dry	259663	1	04/24/2018 01:06	AR
1,1,2,2-Tetrachloroethane	BRL	3.5		ug/Kg-dry	259663	1	04/24/2018 01:06	AR
1,1,2-Trichloroethane	BRL	3.5		ug/Kg-dry	259663	1	04/24/2018 01:06	AR
1,1-Dichloroethane	BRL	3.5		ug/Kg-dry	259663	1	04/24/2018 01:06	AR
1,1-Dichloroethene	BRL	3.5		ug/Kg-dry	259663	1	04/24/2018 01:06	AR
1,2,4-Trichlorobenzene	BRL	3.5		ug/Kg-dry	259663	1	04/24/2018 01:06	AR
1,2-Dibromo-3-chloropropane	BRL	3.5		ug/Kg-dry	259663	1	04/24/2018 01:06	AR
1,2-Dibromoethane	BRL	3.5		ug/Kg-dry	259663	1	04/24/2018 01:06	AR
1,2-Dichlorobenzene	BRL	3.5		ug/Kg-dry	259663	1	04/24/2018 01:06	AR
1,2-Dichloroethane	BRL	3.5		ug/Kg-dry	259663	1	04/24/2018 01:06	AR
1,2-Dichloropropane	BRL	3.5		ug/Kg-dry	259663	1	04/24/2018 01:06	AR
1,3-Dichlorobenzene	BRL	3.5		ug/Kg-dry	259663	1	04/24/2018 01:06	AR
1,4-Dichlorobenzene	BRL	3.5		ug/Kg-dry	259663	1	04/24/2018 01:06	AR
2-Butanone	BRL	35		ug/Kg-dry	259663	1	04/24/2018 01:06	AR
2-Hexanone	BRL	7.0		ug/Kg-dry	259663	1	04/24/2018 01:06	AR
4-Methyl-2-pentanone	BRL	7.0		ug/Kg-dry	259663	1	04/24/2018 01:06	AR
Acetone	BRL	70		ug/Kg-dry	259663	1	04/24/2018 01:06	AR
Benzene	BRL	3.5		ug/Kg-dry	259663	1	04/24/2018 01:06	AR
Bromodichloromethane	BRL	3.5		ug/Kg-dry	259663	1	04/24/2018 01:06	AR
Bromoform	BRL	3.5		ug/Kg-dry	259663	1	04/24/2018 01:06	AR
Bromomethane	BRL	3.5		ug/Kg-dry	259663	1	04/24/2018 01:06	AR
Carbon disulfide	BRL	7.0		ug/Kg-dry	259663	1	04/24/2018 01:06	AR
Carbon tetrachloride	BRL	3.5		ug/Kg-dry	259663	1	04/24/2018 01:06	AR
Chlorobenzene	BRL	3.5		ug/Kg-dry	259663	1	04/24/2018 01:06	AR
Chloroethane	BRL	7.0		ug/Kg-dry	259663	1	04/24/2018 01:06	AR
Chloroform	BRL	3.5		ug/Kg-dry	259663	1	04/24/2018 01:06	AR
Chloromethane	BRL	7.0		ug/Kg-dry	259663	1	04/24/2018 01:06	AR
cis-1,2-Dichloroethene	BRL	3.5		ug/Kg-dry	259663	1	04/24/2018 01:06	AR
cis-1,3-Dichloropropene	BRL	3.5		ug/Kg-dry	259663	1	04/24/2018 01:06	AR
Cyclohexane	BRL	3.5		ug/Kg-dry	259663	1	04/24/2018 01:06	AR
Dibromochloromethane	BRL	3.5		ug/Kg-dry	259663	1	04/24/2018 01:06	AR
Dichlorodifluoromethane	BRL	7.0		ug/Kg-dry	259663	1	04/24/2018 01:06	AR
Ethylbenzene	BRL	3.5		ug/Kg-dry	259663	1	04/24/2018 01:06	AR
Freon-113	BRL	7.0		ug/Kg-dry	259663	1	04/24/2018 01:06	AR
Isopropylbenzene	BRL	3.5		ug/Kg-dry	259663	1	04/24/2018 01:06	AR
m,p-Xylene	BRL	3.5		ug/Kg-dry	259663	1	04/24/2018 01:06	AR
Methyl acetate	BRL	3.5		ug/Kg-dry	259663	1	04/24/2018 01:06	AR
Methyl tert-butyl ether	BRL	3.5		ug/Kg-dry	259663	1	04/24/2018 01:06	AR
Methylcyclohexane	BRL	3.5		ug/Kg-dry	259663	1	04/24/2018 01:06	AR
Methylene chloride	BRL	14		ug/Kg-dry	259663	1	04/24/2018 01:06	AR
o-Xylene	BRL	3.5		ug/Kg-dry	259663	1	04/24/2018 01:06	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-3-13
Project Name: Rheem	Collection Date: 4/17/2018 4:00:00 PM
Lab ID: 1804H65-042	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B			(SW5035)					
Styrene	BRL	3.5		ug/Kg-dry	259663	1	04/24/2018 01:06	AR
Tetrachloroethene	BRL	3.5		ug/Kg-dry	259663	1	04/24/2018 01:06	AR
Toluene	BRL	3.5		ug/Kg-dry	259663	1	04/24/2018 01:06	AR
trans-1,2-Dichloroethene	BRL	3.5		ug/Kg-dry	259663	1	04/24/2018 01:06	AR
trans-1,3-Dichloropropene	BRL	3.5		ug/Kg-dry	259663	1	04/24/2018 01:06	AR
Trichloroethene	BRL	3.5		ug/Kg-dry	259663	1	04/24/2018 01:06	AR
Trichlorofluoromethane	BRL	3.5		ug/Kg-dry	259663	1	04/24/2018 01:06	AR
Vinyl chloride	BRL	7.0		ug/Kg-dry	259663	1	04/24/2018 01:06	AR
Surr: 4-Bromofluorobenzene	93.6	65-133		%REC	259663	1	04/24/2018 01:06	AR
Surr: Dibromofluoromethane	112	75.8-119		%REC	259663	1	04/24/2018 01:06	AR
Surr: Toluene-d8	105	78.3-120		%REC	259663	1	04/24/2018 01:06	AR
PERCENT MOISTURE D2216								
Percent Moisture	22.0	0		wt%	R368387	1	04/20/2018 17:00	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-9-0.5
Project Name: Rheem	Collection Date: 4/17/2018 4:15:00 PM
Lab ID: 1804H65-043	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	3.8		ug/Kg-dry	259663	1	04/24/2018 01:32	AR
1,1,2,2-Tetrachloroethane	BRL	3.8		ug/Kg-dry	259663	1	04/24/2018 01:32	AR
1,1,2-Trichloroethane	BRL	3.8		ug/Kg-dry	259663	1	04/24/2018 01:32	AR
1,1-Dichloroethane	BRL	3.8		ug/Kg-dry	259663	1	04/24/2018 01:32	AR
1,1-Dichloroethene	BRL	3.8		ug/Kg-dry	259663	1	04/24/2018 01:32	AR
1,2,4-Trichlorobenzene	BRL	3.8		ug/Kg-dry	259663	1	04/24/2018 01:32	AR
1,2-Dibromo-3-chloropropane	BRL	3.8		ug/Kg-dry	259663	1	04/24/2018 01:32	AR
1,2-Dibromoethane	BRL	3.8		ug/Kg-dry	259663	1	04/24/2018 01:32	AR
1,2-Dichlorobenzene	BRL	3.8		ug/Kg-dry	259663	1	04/24/2018 01:32	AR
1,2-Dichloroethane	BRL	3.8		ug/Kg-dry	259663	1	04/24/2018 01:32	AR
1,2-Dichloropropane	BRL	3.8		ug/Kg-dry	259663	1	04/24/2018 01:32	AR
1,3-Dichlorobenzene	BRL	3.8		ug/Kg-dry	259663	1	04/24/2018 01:32	AR
1,4-Dichlorobenzene	BRL	3.8		ug/Kg-dry	259663	1	04/24/2018 01:32	AR
2-Butanone	BRL	38		ug/Kg-dry	259663	1	04/24/2018 01:32	AR
2-Hexanone	BRL	7.7		ug/Kg-dry	259663	1	04/24/2018 01:32	AR
4-Methyl-2-pentanone	BRL	7.7		ug/Kg-dry	259663	1	04/24/2018 01:32	AR
Acetone	BRL	77		ug/Kg-dry	259663	1	04/24/2018 01:32	AR
Benzene	BRL	3.8		ug/Kg-dry	259663	1	04/24/2018 01:32	AR
Bromodichloromethane	BRL	3.8		ug/Kg-dry	259663	1	04/24/2018 01:32	AR
Bromoform	BRL	3.8		ug/Kg-dry	259663	1	04/24/2018 01:32	AR
Bromomethane	BRL	3.8		ug/Kg-dry	259663	1	04/24/2018 01:32	AR
Carbon disulfide	BRL	7.7		ug/Kg-dry	259663	1	04/24/2018 01:32	AR
Carbon tetrachloride	BRL	3.8		ug/Kg-dry	259663	1	04/24/2018 01:32	AR
Chlorobenzene	BRL	3.8		ug/Kg-dry	259663	1	04/24/2018 01:32	AR
Chloroethane	BRL	7.7		ug/Kg-dry	259663	1	04/24/2018 01:32	AR
Chloroform	BRL	3.8		ug/Kg-dry	259663	1	04/24/2018 01:32	AR
Chloromethane	BRL	7.7		ug/Kg-dry	259663	1	04/24/2018 01:32	AR
cis-1,2-Dichloroethene	BRL	3.8		ug/Kg-dry	259663	1	04/24/2018 01:32	AR
cis-1,3-Dichloropropene	BRL	3.8		ug/Kg-dry	259663	1	04/24/2018 01:32	AR
Cyclohexane	BRL	3.8		ug/Kg-dry	259663	1	04/24/2018 01:32	AR
Dibromochloromethane	BRL	3.8		ug/Kg-dry	259663	1	04/24/2018 01:32	AR
Dichlorodifluoromethane	BRL	7.7		ug/Kg-dry	259663	1	04/24/2018 01:32	AR
Ethylbenzene	BRL	3.8		ug/Kg-dry	259663	1	04/24/2018 01:32	AR
Freon-113	BRL	7.7		ug/Kg-dry	259663	1	04/24/2018 01:32	AR
Isopropylbenzene	BRL	3.8		ug/Kg-dry	259663	1	04/24/2018 01:32	AR
m,p-Xylene	BRL	3.8		ug/Kg-dry	259663	1	04/24/2018 01:32	AR
Methyl acetate	BRL	3.8		ug/Kg-dry	259663	1	04/24/2018 01:32	AR
Methyl tert-butyl ether	BRL	3.8		ug/Kg-dry	259663	1	04/24/2018 01:32	AR
Methylcyclohexane	BRL	3.8		ug/Kg-dry	259663	1	04/24/2018 01:32	AR
Methylene chloride	BRL	15		ug/Kg-dry	259663	1	04/24/2018 01:32	AR
o-Xylene	BRL	3.8		ug/Kg-dry	259663	1	04/24/2018 01:32	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-9-0.5
Project Name: Rheem	Collection Date: 4/17/2018 4:15:00 PM
Lab ID: 1804H65-043	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5035)			
Styrene	BRL	3.8		ug/Kg-dry	259663	1	04/24/2018 01:32	AR
Tetrachloroethene	BRL	3.8		ug/Kg-dry	259663	1	04/24/2018 01:32	AR
Toluene	BRL	3.8		ug/Kg-dry	259663	1	04/24/2018 01:32	AR
trans-1,2-Dichloroethene	BRL	3.8		ug/Kg-dry	259663	1	04/24/2018 01:32	AR
trans-1,3-Dichloropropene	BRL	3.8		ug/Kg-dry	259663	1	04/24/2018 01:32	AR
Trichloroethene	BRL	3.8		ug/Kg-dry	259663	1	04/24/2018 01:32	AR
Trichlorofluoromethane	BRL	3.8		ug/Kg-dry	259663	1	04/24/2018 01:32	AR
Vinyl chloride	BRL	7.7		ug/Kg-dry	259663	1	04/24/2018 01:32	AR
Surr: 4-Bromofluorobenzene	91.2	65-133		%REC	259663	1	04/24/2018 01:32	AR
Surr: Dibromofluoromethane	104	75.8-119		%REC	259663	1	04/24/2018 01:32	AR
Surr: Toluene-d8	105	78.3-120		%REC	259663	1	04/24/2018 01:32	AR
PERCENT MOISTURE D2216								
Percent Moisture	29.2	0		wt%	R368387	1	04/20/2018 17:00	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-9-1.5
Project Name: Rheem	Collection Date: 4/17/2018 4:20:00 PM
Lab ID: 1804H65-044	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	4.5		ug/Kg-dry	259663	1	04/24/2018 01:58	AR
1,1,2,2-Tetrachloroethane	BRL	4.5		ug/Kg-dry	259663	1	04/24/2018 01:58	AR
1,1,2-Trichloroethane	BRL	4.5		ug/Kg-dry	259663	1	04/24/2018 01:58	AR
1,1-Dichloroethane	BRL	4.5		ug/Kg-dry	259663	1	04/24/2018 01:58	AR
1,1-Dichloroethene	BRL	4.5		ug/Kg-dry	259663	1	04/24/2018 01:58	AR
1,2,4-Trichlorobenzene	BRL	4.5		ug/Kg-dry	259663	1	04/24/2018 01:58	AR
1,2-Dibromo-3-chloropropane	BRL	4.5		ug/Kg-dry	259663	1	04/24/2018 01:58	AR
1,2-Dibromoethane	BRL	4.5		ug/Kg-dry	259663	1	04/24/2018 01:58	AR
1,2-Dichlorobenzene	BRL	4.5		ug/Kg-dry	259663	1	04/24/2018 01:58	AR
1,2-Dichloroethane	BRL	4.5		ug/Kg-dry	259663	1	04/24/2018 01:58	AR
1,2-Dichloropropane	BRL	4.5		ug/Kg-dry	259663	1	04/24/2018 01:58	AR
1,3-Dichlorobenzene	BRL	4.5		ug/Kg-dry	259663	1	04/24/2018 01:58	AR
1,4-Dichlorobenzene	BRL	4.5		ug/Kg-dry	259663	1	04/24/2018 01:58	AR
2-Butanone	BRL	45		ug/Kg-dry	259663	1	04/24/2018 01:58	AR
2-Hexanone	BRL	8.9		ug/Kg-dry	259663	1	04/24/2018 01:58	AR
4-Methyl-2-pentanone	BRL	8.9		ug/Kg-dry	259663	1	04/24/2018 01:58	AR
Acetone	BRL	89		ug/Kg-dry	259663	1	04/24/2018 01:58	AR
Benzene	BRL	4.5		ug/Kg-dry	259663	1	04/24/2018 01:58	AR
Bromodichloromethane	BRL	4.5		ug/Kg-dry	259663	1	04/24/2018 01:58	AR
Bromoform	BRL	4.5		ug/Kg-dry	259663	1	04/24/2018 01:58	AR
Bromomethane	BRL	4.5		ug/Kg-dry	259663	1	04/24/2018 01:58	AR
Carbon disulfide	BRL	8.9		ug/Kg-dry	259663	1	04/24/2018 01:58	AR
Carbon tetrachloride	BRL	4.5		ug/Kg-dry	259663	1	04/24/2018 01:58	AR
Chlorobenzene	BRL	4.5		ug/Kg-dry	259663	1	04/24/2018 01:58	AR
Chloroethane	BRL	8.9		ug/Kg-dry	259663	1	04/24/2018 01:58	AR
Chloroform	BRL	4.5		ug/Kg-dry	259663	1	04/24/2018 01:58	AR
Chloromethane	BRL	8.9		ug/Kg-dry	259663	1	04/24/2018 01:58	AR
cis-1,2-Dichloroethene	BRL	4.5		ug/Kg-dry	259663	1	04/24/2018 01:58	AR
cis-1,3-Dichloropropene	BRL	4.5		ug/Kg-dry	259663	1	04/24/2018 01:58	AR
Cyclohexane	BRL	4.5		ug/Kg-dry	259663	1	04/24/2018 01:58	AR
Dibromochloromethane	BRL	4.5		ug/Kg-dry	259663	1	04/24/2018 01:58	AR
Dichlorodifluoromethane	BRL	8.9		ug/Kg-dry	259663	1	04/24/2018 01:58	AR
Ethylbenzene	BRL	4.5		ug/Kg-dry	259663	1	04/24/2018 01:58	AR
Freon-113	BRL	8.9		ug/Kg-dry	259663	1	04/24/2018 01:58	AR
Isopropylbenzene	BRL	4.5		ug/Kg-dry	259663	1	04/24/2018 01:58	AR
m,p-Xylene	BRL	4.5		ug/Kg-dry	259663	1	04/24/2018 01:58	AR
Methyl acetate	BRL	4.5		ug/Kg-dry	259663	1	04/24/2018 01:58	AR
Methyl tert-butyl ether	BRL	4.5		ug/Kg-dry	259663	1	04/24/2018 01:58	AR
Methylcyclohexane	BRL	4.5		ug/Kg-dry	259663	1	04/24/2018 01:58	AR
Methylene chloride	BRL	18		ug/Kg-dry	259663	1	04/24/2018 01:58	AR
o-Xylene	BRL	4.5		ug/Kg-dry	259663	1	04/24/2018 01:58	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-9-1.5
Project Name: Rheem	Collection Date: 4/17/2018 4:20:00 PM
Lab ID: 1804H65-044	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
Styrene	BRL	4.5		ug/Kg-dry	259663	1	04/24/2018 01:58	AR
Tetrachloroethene	BRL	4.5		ug/Kg-dry	259663	1	04/24/2018 01:58	AR
Toluene	BRL	4.5		ug/Kg-dry	259663	1	04/24/2018 01:58	AR
trans-1,2-Dichloroethene	BRL	4.5		ug/Kg-dry	259663	1	04/24/2018 01:58	AR
trans-1,3-Dichloropropene	BRL	4.5		ug/Kg-dry	259663	1	04/24/2018 01:58	AR
Trichloroethene	BRL	4.5		ug/Kg-dry	259663	1	04/24/2018 01:58	AR
Trichlorofluoromethane	BRL	4.5		ug/Kg-dry	259663	1	04/24/2018 01:58	AR
Vinyl chloride	BRL	8.9		ug/Kg-dry	259663	1	04/24/2018 01:58	AR
Surr: 4-Bromofluorobenzene	97.3	65-133		%REC	259663	1	04/24/2018 01:58	AR
Surr: Dibromofluoromethane	120	75.8-119	S	%REC	259663	1	04/24/2018 01:58	AR
Surr: Toluene-d8	103	78.3-120		%REC	259663	1	04/24/2018 01:58	AR
PERCENT MOISTURE D2216								
Percent Moisture	32.9	0		wt%	R368387	1	04/20/2018 17:00	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-9-4
Project Name: Rheem	Collection Date: 4/17/2018 4:25:00 PM
Lab ID: 1804H65-045	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	3.8		ug/Kg-dry	259663	1	04/24/2018 02:24	AR
1,1,2,2-Tetrachloroethane	BRL	3.8		ug/Kg-dry	259663	1	04/24/2018 02:24	AR
1,1,2-Trichloroethane	BRL	3.8		ug/Kg-dry	259663	1	04/24/2018 02:24	AR
1,1-Dichloroethane	BRL	3.8		ug/Kg-dry	259663	1	04/24/2018 02:24	AR
1,1-Dichloroethene	BRL	3.8		ug/Kg-dry	259663	1	04/24/2018 02:24	AR
1,2,4-Trichlorobenzene	BRL	3.8		ug/Kg-dry	259663	1	04/24/2018 02:24	AR
1,2-Dibromo-3-chloropropane	BRL	3.8		ug/Kg-dry	259663	1	04/24/2018 02:24	AR
1,2-Dibromoethane	BRL	3.8		ug/Kg-dry	259663	1	04/24/2018 02:24	AR
1,2-Dichlorobenzene	BRL	3.8		ug/Kg-dry	259663	1	04/24/2018 02:24	AR
1,2-Dichloroethane	BRL	3.8		ug/Kg-dry	259663	1	04/24/2018 02:24	AR
1,2-Dichloropropane	BRL	3.8		ug/Kg-dry	259663	1	04/24/2018 02:24	AR
1,3-Dichlorobenzene	BRL	3.8		ug/Kg-dry	259663	1	04/24/2018 02:24	AR
1,4-Dichlorobenzene	BRL	3.8		ug/Kg-dry	259663	1	04/24/2018 02:24	AR
2-Butanone	BRL	38		ug/Kg-dry	259663	1	04/24/2018 02:24	AR
2-Hexanone	BRL	7.7		ug/Kg-dry	259663	1	04/24/2018 02:24	AR
4-Methyl-2-pentanone	BRL	7.7		ug/Kg-dry	259663	1	04/24/2018 02:24	AR
Acetone	BRL	77		ug/Kg-dry	259663	1	04/24/2018 02:24	AR
Benzene	BRL	3.8		ug/Kg-dry	259663	1	04/24/2018 02:24	AR
Bromodichloromethane	BRL	3.8		ug/Kg-dry	259663	1	04/24/2018 02:24	AR
Bromoform	BRL	3.8		ug/Kg-dry	259663	1	04/24/2018 02:24	AR
Bromomethane	BRL	3.8		ug/Kg-dry	259663	1	04/24/2018 02:24	AR
Carbon disulfide	BRL	7.7		ug/Kg-dry	259663	1	04/24/2018 02:24	AR
Carbon tetrachloride	BRL	3.8		ug/Kg-dry	259663	1	04/24/2018 02:24	AR
Chlorobenzene	BRL	3.8		ug/Kg-dry	259663	1	04/24/2018 02:24	AR
Chloroethane	BRL	7.7		ug/Kg-dry	259663	1	04/24/2018 02:24	AR
Chloroform	BRL	3.8		ug/Kg-dry	259663	1	04/24/2018 02:24	AR
Chloromethane	BRL	7.7		ug/Kg-dry	259663	1	04/24/2018 02:24	AR
cis-1,2-Dichloroethene	BRL	3.8		ug/Kg-dry	259663	1	04/24/2018 02:24	AR
cis-1,3-Dichloropropene	BRL	3.8		ug/Kg-dry	259663	1	04/24/2018 02:24	AR
Cyclohexane	BRL	3.8		ug/Kg-dry	259663	1	04/24/2018 02:24	AR
Dibromochloromethane	BRL	3.8		ug/Kg-dry	259663	1	04/24/2018 02:24	AR
Dichlorodifluoromethane	BRL	7.7		ug/Kg-dry	259663	1	04/24/2018 02:24	AR
Ethylbenzene	BRL	3.8		ug/Kg-dry	259663	1	04/24/2018 02:24	AR
Freon-113	BRL	7.7		ug/Kg-dry	259663	1	04/24/2018 02:24	AR
Isopropylbenzene	BRL	3.8		ug/Kg-dry	259663	1	04/24/2018 02:24	AR
m,p-Xylene	BRL	3.8		ug/Kg-dry	259663	1	04/24/2018 02:24	AR
Methyl acetate	BRL	3.8		ug/Kg-dry	259663	1	04/24/2018 02:24	AR
Methyl tert-butyl ether	BRL	3.8		ug/Kg-dry	259663	1	04/24/2018 02:24	AR
Methylcyclohexane	BRL	3.8		ug/Kg-dry	259663	1	04/24/2018 02:24	AR
Methylene chloride	BRL	15		ug/Kg-dry	259663	1	04/24/2018 02:24	AR
o-Xylene	BRL	3.8		ug/Kg-dry	259663	1	04/24/2018 02:24	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-9-4
Project Name: Rheem	Collection Date: 4/17/2018 4:25:00 PM
Lab ID: 1804H65-045	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B			(SW5035)					
Styrene	BRL	3.8		ug/Kg-dry	259663	1	04/24/2018 02:24	AR
Tetrachloroethene	BRL	3.8		ug/Kg-dry	259663	1	04/24/2018 02:24	AR
Toluene	BRL	3.8		ug/Kg-dry	259663	1	04/24/2018 02:24	AR
trans-1,2-Dichloroethene	BRL	3.8		ug/Kg-dry	259663	1	04/24/2018 02:24	AR
trans-1,3-Dichloropropene	BRL	3.8		ug/Kg-dry	259663	1	04/24/2018 02:24	AR
Trichloroethene	BRL	3.8		ug/Kg-dry	259663	1	04/24/2018 02:24	AR
Trichlorofluoromethane	BRL	3.8		ug/Kg-dry	259663	1	04/24/2018 02:24	AR
Vinyl chloride	BRL	7.7		ug/Kg-dry	259663	1	04/24/2018 02:24	AR
Surr: 4-Bromofluorobenzene	89.8	65-133		%REC	259663	1	04/24/2018 02:24	AR
Surr: Dibromofluoromethane	110	75.8-119		%REC	259663	1	04/24/2018 02:24	AR
Surr: Toluene-d8	107	78.3-120		%REC	259663	1	04/24/2018 02:24	AR
PERCENT MOISTURE D2216								
Percent Moisture	23.0	0		wt%	R368387	1	04/20/2018 17:00	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-9-8
Project Name: Rheem	Collection Date: 4/17/2018 4:30:00 PM
Lab ID: 1804H65-046	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 02:50	AR
1,1,2,2-Tetrachloroethane	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 02:50	AR
1,1,2-Trichloroethane	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 02:50	AR
1,1-Dichloroethane	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 02:50	AR
1,1-Dichloroethene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 02:50	AR
1,2,4-Trichlorobenzene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 02:50	AR
1,2-Dibromo-3-chloropropane	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 02:50	AR
1,2-Dibromoethane	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 02:50	AR
1,2-Dichlorobenzene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 02:50	AR
1,2-Dichloroethane	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 02:50	AR
1,2-Dichloropropane	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 02:50	AR
1,3-Dichlorobenzene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 02:50	AR
1,4-Dichlorobenzene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 02:50	AR
2-Butanone	BRL	34		ug/Kg-dry	259663	1	04/24/2018 02:50	AR
2-Hexanone	BRL	6.7		ug/Kg-dry	259663	1	04/24/2018 02:50	AR
4-Methyl-2-pentanone	BRL	6.7		ug/Kg-dry	259663	1	04/24/2018 02:50	AR
Acetone	BRL	67		ug/Kg-dry	259663	1	04/24/2018 02:50	AR
Benzene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 02:50	AR
Bromodichloromethane	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 02:50	AR
Bromoform	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 02:50	AR
Bromomethane	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 02:50	AR
Carbon disulfide	BRL	6.7		ug/Kg-dry	259663	1	04/24/2018 02:50	AR
Carbon tetrachloride	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 02:50	AR
Chlorobenzene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 02:50	AR
Chloroethane	BRL	6.7		ug/Kg-dry	259663	1	04/24/2018 02:50	AR
Chloroform	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 02:50	AR
Chloromethane	BRL	6.7		ug/Kg-dry	259663	1	04/24/2018 02:50	AR
cis-1,2-Dichloroethene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 02:50	AR
cis-1,3-Dichloropropene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 02:50	AR
Cyclohexane	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 02:50	AR
Dibromochloromethane	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 02:50	AR
Dichlorodifluoromethane	BRL	6.7		ug/Kg-dry	259663	1	04/24/2018 02:50	AR
Ethylbenzene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 02:50	AR
Freon-113	BRL	6.7		ug/Kg-dry	259663	1	04/24/2018 02:50	AR
Isopropylbenzene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 02:50	AR
m,p-Xylene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 02:50	AR
Methyl acetate	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 02:50	AR
Methyl tert-butyl ether	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 02:50	AR
Methylcyclohexane	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 02:50	AR
Methylene chloride	BRL	13		ug/Kg-dry	259663	1	04/24/2018 02:50	AR
o-Xylene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 02:50	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-9-8
Project Name: Rheem	Collection Date: 4/17/2018 4:30:00 PM
Lab ID: 1804H65-046	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
Styrene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 02:50	AR
Tetrachloroethene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 02:50	AR
Toluene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 02:50	AR
trans-1,2-Dichloroethene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 02:50	AR
trans-1,3-Dichloropropene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 02:50	AR
Trichloroethene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 02:50	AR
Trichlorofluoromethane	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 02:50	AR
Vinyl chloride	BRL	6.7		ug/Kg-dry	259663	1	04/24/2018 02:50	AR
Surr: 4-Bromofluorobenzene	94.5	65-133		%REC	259663	1	04/24/2018 02:50	AR
Surr: Dibromofluoromethane	129	75.8-119	S	%REC	259663	1	04/24/2018 02:50	AR
Surr: Toluene-d8	103	78.3-120		%REC	259663	1	04/24/2018 02:50	AR
PERCENT MOISTURE D2216								
Percent Moisture	20.2	0		wt%	R368387	1	04/20/2018 17:00	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-9-13
Project Name: Rheem	Collection Date: 4/17/2018 4:35:00 PM
Lab ID: 1804H65-047	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	3.7		ug/Kg-dry	259663	1	04/24/2018 03:16	AR
1,1,2,2-Tetrachloroethane	BRL	3.7		ug/Kg-dry	259663	1	04/24/2018 03:16	AR
1,1,2-Trichloroethane	BRL	3.7		ug/Kg-dry	259663	1	04/24/2018 03:16	AR
1,1-Dichloroethane	BRL	3.7		ug/Kg-dry	259663	1	04/24/2018 03:16	AR
1,1-Dichloroethene	BRL	3.7		ug/Kg-dry	259663	1	04/24/2018 03:16	AR
1,2,4-Trichlorobenzene	BRL	3.7		ug/Kg-dry	259663	1	04/24/2018 03:16	AR
1,2-Dibromo-3-chloropropane	BRL	3.7		ug/Kg-dry	259663	1	04/24/2018 03:16	AR
1,2-Dibromoethane	BRL	3.7		ug/Kg-dry	259663	1	04/24/2018 03:16	AR
1,2-Dichlorobenzene	BRL	3.7		ug/Kg-dry	259663	1	04/24/2018 03:16	AR
1,2-Dichloroethane	BRL	3.7		ug/Kg-dry	259663	1	04/24/2018 03:16	AR
1,2-Dichloropropane	BRL	3.7		ug/Kg-dry	259663	1	04/24/2018 03:16	AR
1,3-Dichlorobenzene	BRL	3.7		ug/Kg-dry	259663	1	04/24/2018 03:16	AR
1,4-Dichlorobenzene	BRL	3.7		ug/Kg-dry	259663	1	04/24/2018 03:16	AR
2-Butanone	BRL	37		ug/Kg-dry	259663	1	04/24/2018 03:16	AR
2-Hexanone	BRL	7.5		ug/Kg-dry	259663	1	04/24/2018 03:16	AR
4-Methyl-2-pentanone	BRL	7.5		ug/Kg-dry	259663	1	04/24/2018 03:16	AR
Acetone	BRL	75		ug/Kg-dry	259663	1	04/24/2018 03:16	AR
Benzene	BRL	3.7		ug/Kg-dry	259663	1	04/24/2018 03:16	AR
Bromodichloromethane	BRL	3.7		ug/Kg-dry	259663	1	04/24/2018 03:16	AR
Bromoform	BRL	3.7		ug/Kg-dry	259663	1	04/24/2018 03:16	AR
Bromomethane	BRL	3.7		ug/Kg-dry	259663	1	04/24/2018 03:16	AR
Carbon disulfide	BRL	7.5		ug/Kg-dry	259663	1	04/24/2018 03:16	AR
Carbon tetrachloride	BRL	3.7		ug/Kg-dry	259663	1	04/24/2018 03:16	AR
Chlorobenzene	BRL	3.7		ug/Kg-dry	259663	1	04/24/2018 03:16	AR
Chloroethane	BRL	7.5		ug/Kg-dry	259663	1	04/24/2018 03:16	AR
Chloroform	BRL	3.7		ug/Kg-dry	259663	1	04/24/2018 03:16	AR
Chloromethane	BRL	7.5		ug/Kg-dry	259663	1	04/24/2018 03:16	AR
cis-1,2-Dichloroethene	BRL	3.7		ug/Kg-dry	259663	1	04/24/2018 03:16	AR
cis-1,3-Dichloropropene	BRL	3.7		ug/Kg-dry	259663	1	04/24/2018 03:16	AR
Cyclohexane	BRL	3.7		ug/Kg-dry	259663	1	04/24/2018 03:16	AR
Dibromochloromethane	BRL	3.7		ug/Kg-dry	259663	1	04/24/2018 03:16	AR
Dichlorodifluoromethane	BRL	7.5		ug/Kg-dry	259663	1	04/24/2018 03:16	AR
Ethylbenzene	BRL	3.7		ug/Kg-dry	259663	1	04/24/2018 03:16	AR
Freon-113	BRL	7.5		ug/Kg-dry	259663	1	04/24/2018 03:16	AR
Isopropylbenzene	BRL	3.7		ug/Kg-dry	259663	1	04/24/2018 03:16	AR
m,p-Xylene	BRL	3.7		ug/Kg-dry	259663	1	04/24/2018 03:16	AR
Methyl acetate	BRL	3.7		ug/Kg-dry	259663	1	04/24/2018 03:16	AR
Methyl tert-butyl ether	BRL	3.7		ug/Kg-dry	259663	1	04/24/2018 03:16	AR
Methylcyclohexane	BRL	3.7		ug/Kg-dry	259663	1	04/24/2018 03:16	AR
Methylene chloride	BRL	15		ug/Kg-dry	259663	1	04/24/2018 03:16	AR
o-Xylene	BRL	3.7		ug/Kg-dry	259663	1	04/24/2018 03:16	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-9-13
Project Name: Rheem	Collection Date: 4/17/2018 4:35:00 PM
Lab ID: 1804H65-047	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
Styrene	BRL	3.7		ug/Kg-dry	259663	1	04/24/2018 03:16	AR
Tetrachloroethene	BRL	3.7		ug/Kg-dry	259663	1	04/24/2018 03:16	AR
Toluene	BRL	3.7		ug/Kg-dry	259663	1	04/24/2018 03:16	AR
trans-1,2-Dichloroethene	BRL	3.7		ug/Kg-dry	259663	1	04/24/2018 03:16	AR
trans-1,3-Dichloropropene	BRL	3.7		ug/Kg-dry	259663	1	04/24/2018 03:16	AR
Trichloroethene	BRL	3.7		ug/Kg-dry	259663	1	04/24/2018 03:16	AR
Trichlorofluoromethane	BRL	3.7		ug/Kg-dry	259663	1	04/24/2018 03:16	AR
Vinyl chloride	BRL	7.5		ug/Kg-dry	259663	1	04/24/2018 03:16	AR
Surr: 4-Bromofluorobenzene	89.6	65-133		%REC	259663	1	04/24/2018 03:16	AR
Surr: Dibromofluoromethane	113	75.8-119		%REC	259663	1	04/24/2018 03:16	AR
Surr: Toluene-d8	107	78.3-120		%REC	259663	1	04/24/2018 03:16	AR
PERCENT MOISTURE D2216								
Percent Moisture	21.1	0		wt%	R368387	1	04/20/2018 17:00	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-6-0.5
Project Name: Rheem	Collection Date: 4/17/2018 4:50:00 PM
Lab ID: 1804H65-048	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	3.2		ug/Kg-dry	259663	1	04/24/2018 03:42	AR
1,1,2,2-Tetrachloroethane	BRL	3.2		ug/Kg-dry	259663	1	04/24/2018 03:42	AR
1,1,2-Trichloroethane	BRL	3.2		ug/Kg-dry	259663	1	04/24/2018 03:42	AR
1,1-Dichloroethane	BRL	3.2		ug/Kg-dry	259663	1	04/24/2018 03:42	AR
1,1-Dichloroethene	BRL	3.2		ug/Kg-dry	259663	1	04/24/2018 03:42	AR
1,2,4-Trichlorobenzene	BRL	3.2		ug/Kg-dry	259663	1	04/24/2018 03:42	AR
1,2-Dibromo-3-chloropropane	BRL	3.2		ug/Kg-dry	259663	1	04/24/2018 03:42	AR
1,2-Dibromoethane	BRL	3.2		ug/Kg-dry	259663	1	04/24/2018 03:42	AR
1,2-Dichlorobenzene	BRL	3.2		ug/Kg-dry	259663	1	04/24/2018 03:42	AR
1,2-Dichloroethane	BRL	3.2		ug/Kg-dry	259663	1	04/24/2018 03:42	AR
1,2-Dichloropropane	BRL	3.2		ug/Kg-dry	259663	1	04/24/2018 03:42	AR
1,3-Dichlorobenzene	BRL	3.2		ug/Kg-dry	259663	1	04/24/2018 03:42	AR
1,4-Dichlorobenzene	BRL	3.2		ug/Kg-dry	259663	1	04/24/2018 03:42	AR
2-Butanone	BRL	32		ug/Kg-dry	259663	1	04/24/2018 03:42	AR
2-Hexanone	BRL	6.3		ug/Kg-dry	259663	1	04/24/2018 03:42	AR
4-Methyl-2-pentanone	BRL	6.3		ug/Kg-dry	259663	1	04/24/2018 03:42	AR
Acetone	140	63		ug/Kg-dry	259663	1	04/24/2018 03:42	AR
Benzene	BRL	3.2		ug/Kg-dry	259663	1	04/24/2018 03:42	AR
Bromodichloromethane	BRL	3.2		ug/Kg-dry	259663	1	04/24/2018 03:42	AR
Bromoform	BRL	3.2		ug/Kg-dry	259663	1	04/24/2018 03:42	AR
Bromomethane	BRL	3.2		ug/Kg-dry	259663	1	04/24/2018 03:42	AR
Carbon disulfide	BRL	6.3		ug/Kg-dry	259663	1	04/24/2018 03:42	AR
Carbon tetrachloride	BRL	3.2		ug/Kg-dry	259663	1	04/24/2018 03:42	AR
Chlorobenzene	BRL	3.2		ug/Kg-dry	259663	1	04/24/2018 03:42	AR
Chloroethane	BRL	6.3		ug/Kg-dry	259663	1	04/24/2018 03:42	AR
Chloroform	BRL	3.2		ug/Kg-dry	259663	1	04/24/2018 03:42	AR
Chloromethane	BRL	6.3		ug/Kg-dry	259663	1	04/24/2018 03:42	AR
cis-1,2-Dichloroethene	BRL	3.2		ug/Kg-dry	259663	1	04/24/2018 03:42	AR
cis-1,3-Dichloropropene	BRL	3.2		ug/Kg-dry	259663	1	04/24/2018 03:42	AR
Cyclohexane	BRL	3.2		ug/Kg-dry	259663	1	04/24/2018 03:42	AR
Dibromochloromethane	BRL	3.2		ug/Kg-dry	259663	1	04/24/2018 03:42	AR
Dichlorodifluoromethane	BRL	6.3		ug/Kg-dry	259663	1	04/24/2018 03:42	AR
Ethylbenzene	BRL	3.2		ug/Kg-dry	259663	1	04/24/2018 03:42	AR
Freon-113	BRL	6.3		ug/Kg-dry	259663	1	04/24/2018 03:42	AR
Isopropylbenzene	BRL	3.2		ug/Kg-dry	259663	1	04/24/2018 03:42	AR
m,p-Xylene	BRL	3.2		ug/Kg-dry	259663	1	04/24/2018 03:42	AR
Methyl acetate	BRL	3.2		ug/Kg-dry	259663	1	04/24/2018 03:42	AR
Methyl tert-butyl ether	BRL	3.2		ug/Kg-dry	259663	1	04/24/2018 03:42	AR
Methylcyclohexane	BRL	3.2		ug/Kg-dry	259663	1	04/24/2018 03:42	AR
Methylene chloride	BRL	13		ug/Kg-dry	259663	1	04/24/2018 03:42	AR
o-Xylene	BRL	3.2		ug/Kg-dry	259663	1	04/24/2018 03:42	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-6-0.5
Project Name: Rheem	Collection Date: 4/17/2018 4:50:00 PM
Lab ID: 1804H65-048	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5035)			
Styrene	BRL	3.2		ug/Kg-dry	259663	1	04/24/2018 03:42	AR
Tetrachloroethene	BRL	3.2		ug/Kg-dry	259663	1	04/24/2018 03:42	AR
Toluene	BRL	3.2		ug/Kg-dry	259663	1	04/24/2018 03:42	AR
trans-1,2-Dichloroethene	BRL	3.2		ug/Kg-dry	259663	1	04/24/2018 03:42	AR
trans-1,3-Dichloropropene	BRL	3.2		ug/Kg-dry	259663	1	04/24/2018 03:42	AR
Trichloroethene	BRL	3.2		ug/Kg-dry	259663	1	04/24/2018 03:42	AR
Trichlorofluoromethane	BRL	3.2		ug/Kg-dry	259663	1	04/24/2018 03:42	AR
Vinyl chloride	BRL	6.3		ug/Kg-dry	259663	1	04/24/2018 03:42	AR
Surr: 4-Bromofluorobenzene	83.6	65-133		%REC	259663	1	04/24/2018 03:42	AR
Surr: Dibromofluoromethane	122	75.8-119	S	%REC	259663	1	04/24/2018 03:42	AR
Surr: Toluene-d8	97.9	78.3-120		%REC	259663	1	04/24/2018 03:42	AR
PERCENT MOISTURE D2216								
Percent Moisture	18.5	0		wt%	R368387	1	04/20/2018 17:00	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-6-1.5
Project Name: Rheem	Collection Date: 4/17/2018 4:55:00 PM
Lab ID: 1804H65-049	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 15:56	AR
1,1,2,2-Tetrachloroethane	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 15:56	AR
1,1,2-Trichloroethane	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 15:56	AR
1,1-Dichloroethane	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 15:56	AR
1,1-Dichloroethene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 15:56	AR
1,2,4-Trichlorobenzene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 15:56	AR
1,2-Dibromo-3-chloropropane	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 15:56	AR
1,2-Dibromoethane	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 15:56	AR
1,2-Dichlorobenzene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 15:56	AR
1,2-Dichloroethane	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 15:56	AR
1,2-Dichloropropane	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 15:56	AR
1,3-Dichlorobenzene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 15:56	AR
1,4-Dichlorobenzene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 15:56	AR
2-Butanone	BRL	34		ug/Kg-dry	259663	1	04/24/2018 15:56	AR
2-Hexanone	BRL	6.9		ug/Kg-dry	259663	1	04/24/2018 15:56	AR
4-Methyl-2-pentanone	BRL	6.9		ug/Kg-dry	259663	1	04/24/2018 15:56	AR
Acetone	BRL	69		ug/Kg-dry	259663	1	04/24/2018 15:56	AR
Benzene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 15:56	AR
Bromodichloromethane	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 15:56	AR
Bromoform	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 15:56	AR
Bromomethane	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 15:56	AR
Carbon disulfide	BRL	6.9		ug/Kg-dry	259663	1	04/24/2018 15:56	AR
Carbon tetrachloride	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 15:56	AR
Chlorobenzene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 15:56	AR
Chloroethane	BRL	6.9		ug/Kg-dry	259663	1	04/24/2018 15:56	AR
Chloroform	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 15:56	AR
Chloromethane	BRL	6.9		ug/Kg-dry	259663	1	04/24/2018 15:56	AR
cis-1,2-Dichloroethene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 15:56	AR
cis-1,3-Dichloropropene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 15:56	AR
Cyclohexane	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 15:56	AR
Dibromochloromethane	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 15:56	AR
Dichlorodifluoromethane	BRL	6.9		ug/Kg-dry	259663	1	04/24/2018 15:56	AR
Ethylbenzene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 15:56	AR
Freon-113	BRL	6.9		ug/Kg-dry	259663	1	04/24/2018 15:56	AR
Isopropylbenzene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 15:56	AR
m,p-Xylene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 15:56	AR
Methyl acetate	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 15:56	AR
Methyl tert-butyl ether	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 15:56	AR
Methylcyclohexane	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 15:56	AR
Methylene chloride	BRL	14		ug/Kg-dry	259663	1	04/24/2018 15:56	AR
o-Xylene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 15:56	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-6-1.5
Project Name: Rheem	Collection Date: 4/17/2018 4:55:00 PM
Lab ID: 1804H65-049	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
Styrene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 15:56	AR
Tetrachloroethene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 15:56	AR
Toluene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 15:56	AR
trans-1,2-Dichloroethene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 15:56	AR
trans-1,3-Dichloropropene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 15:56	AR
Trichloroethene	15	3.4		ug/Kg-dry	259663	1	04/24/2018 15:56	AR
Trichlorofluoromethane	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 15:56	AR
Vinyl chloride	BRL	6.9		ug/Kg-dry	259663	1	04/24/2018 15:56	AR
Surr: 4-Bromofluorobenzene	84.6	65-133		%REC	259663	1	04/24/2018 15:56	AR
Surr: Dibromofluoromethane	113	75.8-119		%REC	259663	1	04/24/2018 15:56	AR
Surr: Toluene-d8	109	78.3-120		%REC	259663	1	04/24/2018 15:56	AR
PERCENT MOISTURE D2216								
Percent Moisture	13.6	0		wt%	R368387	1	04/20/2018 17:00	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-6-4
Project Name: Rheem	Collection Date: 4/17/2018 5:00:00 PM
Lab ID: 1804H65-050	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	3.5		ug/Kg-dry	259663	1	04/24/2018 04:34	AR
1,1,2,2-Tetrachloroethane	BRL	3.5		ug/Kg-dry	259663	1	04/24/2018 04:34	AR
1,1,2-Trichloroethane	BRL	3.5		ug/Kg-dry	259663	1	04/24/2018 04:34	AR
1,1-Dichloroethane	BRL	3.5		ug/Kg-dry	259663	1	04/24/2018 04:34	AR
1,1-Dichloroethene	BRL	3.5		ug/Kg-dry	259663	1	04/24/2018 04:34	AR
1,2,4-Trichlorobenzene	BRL	3.5		ug/Kg-dry	259663	1	04/24/2018 04:34	AR
1,2-Dibromo-3-chloropropane	BRL	3.5		ug/Kg-dry	259663	1	04/24/2018 04:34	AR
1,2-Dibromoethane	BRL	3.5		ug/Kg-dry	259663	1	04/24/2018 04:34	AR
1,2-Dichlorobenzene	BRL	3.5		ug/Kg-dry	259663	1	04/24/2018 04:34	AR
1,2-Dichloroethane	BRL	3.5		ug/Kg-dry	259663	1	04/24/2018 04:34	AR
1,2-Dichloropropane	BRL	3.5		ug/Kg-dry	259663	1	04/24/2018 04:34	AR
1,3-Dichlorobenzene	BRL	3.5		ug/Kg-dry	259663	1	04/24/2018 04:34	AR
1,4-Dichlorobenzene	BRL	3.5		ug/Kg-dry	259663	1	04/24/2018 04:34	AR
2-Butanone	BRL	35		ug/Kg-dry	259663	1	04/24/2018 04:34	AR
2-Hexanone	BRL	7.0		ug/Kg-dry	259663	1	04/24/2018 04:34	AR
4-Methyl-2-pentanone	BRL	7.0		ug/Kg-dry	259663	1	04/24/2018 04:34	AR
Acetone	110	70		ug/Kg-dry	259663	1	04/24/2018 04:34	AR
Benzene	BRL	3.5		ug/Kg-dry	259663	1	04/24/2018 04:34	AR
Bromodichloromethane	BRL	3.5		ug/Kg-dry	259663	1	04/24/2018 04:34	AR
Bromoform	BRL	3.5		ug/Kg-dry	259663	1	04/24/2018 04:34	AR
Bromomethane	BRL	3.5		ug/Kg-dry	259663	1	04/24/2018 04:34	AR
Carbon disulfide	BRL	7.0		ug/Kg-dry	259663	1	04/24/2018 04:34	AR
Carbon tetrachloride	BRL	3.5		ug/Kg-dry	259663	1	04/24/2018 04:34	AR
Chlorobenzene	BRL	3.5		ug/Kg-dry	259663	1	04/24/2018 04:34	AR
Chloroethane	BRL	7.0		ug/Kg-dry	259663	1	04/24/2018 04:34	AR
Chloroform	BRL	3.5		ug/Kg-dry	259663	1	04/24/2018 04:34	AR
Chloromethane	BRL	7.0		ug/Kg-dry	259663	1	04/24/2018 04:34	AR
cis-1,2-Dichloroethene	BRL	3.5		ug/Kg-dry	259663	1	04/24/2018 04:34	AR
cis-1,3-Dichloropropene	BRL	3.5		ug/Kg-dry	259663	1	04/24/2018 04:34	AR
Cyclohexane	BRL	3.5		ug/Kg-dry	259663	1	04/24/2018 04:34	AR
Dibromochloromethane	BRL	3.5		ug/Kg-dry	259663	1	04/24/2018 04:34	AR
Dichlorodifluoromethane	BRL	7.0		ug/Kg-dry	259663	1	04/24/2018 04:34	AR
Ethylbenzene	BRL	3.5		ug/Kg-dry	259663	1	04/24/2018 04:34	AR
Freon-113	BRL	7.0		ug/Kg-dry	259663	1	04/24/2018 04:34	AR
Isopropylbenzene	BRL	3.5		ug/Kg-dry	259663	1	04/24/2018 04:34	AR
m,p-Xylene	BRL	3.5		ug/Kg-dry	259663	1	04/24/2018 04:34	AR
Methyl acetate	BRL	3.5		ug/Kg-dry	259663	1	04/24/2018 04:34	AR
Methyl tert-butyl ether	BRL	3.5		ug/Kg-dry	259663	1	04/24/2018 04:34	AR
Methylcyclohexane	BRL	3.5		ug/Kg-dry	259663	1	04/24/2018 04:34	AR
Methylene chloride	BRL	14		ug/Kg-dry	259663	1	04/24/2018 04:34	AR
o-Xylene	BRL	3.5		ug/Kg-dry	259663	1	04/24/2018 04:34	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-6-4
Project Name: Rheem	Collection Date: 4/17/2018 5:00:00 PM
Lab ID: 1804H65-050	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B			(SW5035)					
Styrene	BRL	3.5		ug/Kg-dry	259663	1	04/24/2018 04:34	AR
Tetrachloroethene	BRL	3.5		ug/Kg-dry	259663	1	04/24/2018 04:34	AR
Toluene	BRL	3.5		ug/Kg-dry	259663	1	04/24/2018 04:34	AR
trans-1,2-Dichloroethene	BRL	3.5		ug/Kg-dry	259663	1	04/24/2018 04:34	AR
trans-1,3-Dichloropropene	BRL	3.5		ug/Kg-dry	259663	1	04/24/2018 04:34	AR
Trichloroethene	BRL	3.5		ug/Kg-dry	259663	1	04/24/2018 04:34	AR
Trichlorofluoromethane	BRL	3.5		ug/Kg-dry	259663	1	04/24/2018 04:34	AR
Vinyl chloride	BRL	7.0		ug/Kg-dry	259663	1	04/24/2018 04:34	AR
Surr: 4-Bromofluorobenzene	89.4	65-133		%REC	259663	1	04/24/2018 04:34	AR
Surr: Dibromofluoromethane	107	75.8-119		%REC	259663	1	04/24/2018 04:34	AR
Surr: Toluene-d8	108	78.3-120		%REC	259663	1	04/24/2018 04:34	AR
PERCENT MOISTURE D2216								
Percent Moisture	16.3	0		wt%	R368387	1	04/20/2018 17:00	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-6-8
Project Name: Rheem	Collection Date: 4/17/2018 5:05:00 PM
Lab ID: 1804H65-051	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	3.6		ug/Kg-dry	259663	1	04/24/2018 05:00	AR
1,1,2,2-Tetrachloroethane	BRL	3.6		ug/Kg-dry	259663	1	04/24/2018 05:00	AR
1,1,2-Trichloroethane	BRL	3.6		ug/Kg-dry	259663	1	04/24/2018 05:00	AR
1,1-Dichloroethane	BRL	3.6		ug/Kg-dry	259663	1	04/24/2018 05:00	AR
1,1-Dichloroethene	BRL	3.6		ug/Kg-dry	259663	1	04/24/2018 05:00	AR
1,2,4-Trichlorobenzene	BRL	3.6		ug/Kg-dry	259663	1	04/24/2018 05:00	AR
1,2-Dibromo-3-chloropropane	BRL	3.6		ug/Kg-dry	259663	1	04/24/2018 05:00	AR
1,2-Dibromoethane	BRL	3.6		ug/Kg-dry	259663	1	04/24/2018 05:00	AR
1,2-Dichlorobenzene	BRL	3.6		ug/Kg-dry	259663	1	04/24/2018 05:00	AR
1,2-Dichloroethane	BRL	3.6		ug/Kg-dry	259663	1	04/24/2018 05:00	AR
1,2-Dichloropropane	BRL	3.6		ug/Kg-dry	259663	1	04/24/2018 05:00	AR
1,3-Dichlorobenzene	BRL	3.6		ug/Kg-dry	259663	1	04/24/2018 05:00	AR
1,4-Dichlorobenzene	BRL	3.6		ug/Kg-dry	259663	1	04/24/2018 05:00	AR
2-Butanone	BRL	36		ug/Kg-dry	259663	1	04/24/2018 05:00	AR
2-Hexanone	BRL	7.2		ug/Kg-dry	259663	1	04/24/2018 05:00	AR
4-Methyl-2-pentanone	BRL	7.2		ug/Kg-dry	259663	1	04/24/2018 05:00	AR
Acetone	BRL	72		ug/Kg-dry	259663	1	04/24/2018 05:00	AR
Benzene	BRL	3.6		ug/Kg-dry	259663	1	04/24/2018 05:00	AR
Bromodichloromethane	BRL	3.6		ug/Kg-dry	259663	1	04/24/2018 05:00	AR
Bromoform	BRL	3.6		ug/Kg-dry	259663	1	04/24/2018 05:00	AR
Bromomethane	BRL	3.6		ug/Kg-dry	259663	1	04/24/2018 05:00	AR
Carbon disulfide	BRL	7.2		ug/Kg-dry	259663	1	04/24/2018 05:00	AR
Carbon tetrachloride	BRL	3.6		ug/Kg-dry	259663	1	04/24/2018 05:00	AR
Chlorobenzene	BRL	3.6		ug/Kg-dry	259663	1	04/24/2018 05:00	AR
Chloroethane	BRL	7.2		ug/Kg-dry	259663	1	04/24/2018 05:00	AR
Chloroform	BRL	3.6		ug/Kg-dry	259663	1	04/24/2018 05:00	AR
Chloromethane	BRL	7.2		ug/Kg-dry	259663	1	04/24/2018 05:00	AR
cis-1,2-Dichloroethene	BRL	3.6		ug/Kg-dry	259663	1	04/24/2018 05:00	AR
cis-1,3-Dichloropropene	BRL	3.6		ug/Kg-dry	259663	1	04/24/2018 05:00	AR
Cyclohexane	BRL	3.6		ug/Kg-dry	259663	1	04/24/2018 05:00	AR
Dibromochloromethane	BRL	3.6		ug/Kg-dry	259663	1	04/24/2018 05:00	AR
Dichlorodifluoromethane	BRL	7.2		ug/Kg-dry	259663	1	04/24/2018 05:00	AR
Ethylbenzene	BRL	3.6		ug/Kg-dry	259663	1	04/24/2018 05:00	AR
Freon-113	BRL	7.2		ug/Kg-dry	259663	1	04/24/2018 05:00	AR
Isopropylbenzene	BRL	3.6		ug/Kg-dry	259663	1	04/24/2018 05:00	AR
m,p-Xylene	BRL	3.6		ug/Kg-dry	259663	1	04/24/2018 05:00	AR
Methyl acetate	BRL	3.6		ug/Kg-dry	259663	1	04/24/2018 05:00	AR
Methyl tert-butyl ether	BRL	3.6		ug/Kg-dry	259663	1	04/24/2018 05:00	AR
Methylcyclohexane	BRL	3.6		ug/Kg-dry	259663	1	04/24/2018 05:00	AR
Methylene chloride	BRL	14		ug/Kg-dry	259663	1	04/24/2018 05:00	AR
o-Xylene	BRL	3.6		ug/Kg-dry	259663	1	04/24/2018 05:00	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-6-8
Project Name: Rheem	Collection Date: 4/17/2018 5:05:00 PM
Lab ID: 1804H65-051	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
Styrene	BRL	3.6		ug/Kg-dry	259663	1	04/24/2018 05:00	AR
Tetrachloroethene	BRL	3.6		ug/Kg-dry	259663	1	04/24/2018 05:00	AR
Toluene	BRL	3.6		ug/Kg-dry	259663	1	04/24/2018 05:00	AR
trans-1,2-Dichloroethene	BRL	3.6		ug/Kg-dry	259663	1	04/24/2018 05:00	AR
trans-1,3-Dichloropropene	BRL	3.6		ug/Kg-dry	259663	1	04/24/2018 05:00	AR
Trichloroethene	6.6	3.6		ug/Kg-dry	259663	1	04/24/2018 05:00	AR
Trichlorofluoromethane	BRL	3.6		ug/Kg-dry	259663	1	04/24/2018 05:00	AR
Vinyl chloride	BRL	7.2		ug/Kg-dry	259663	1	04/24/2018 05:00	AR
Surr: 4-Bromofluorobenzene	86.8	65-133		%REC	259663	1	04/24/2018 05:00	AR
Surr: Dibromofluoromethane	118	75.8-119		%REC	259663	1	04/24/2018 05:00	AR
Surr: Toluene-d8	112	78.3-120		%REC	259663	1	04/24/2018 05:00	AR
PERCENT MOISTURE D2216								
Percent Moisture	23.2	0		wt%	R368387	1	04/20/2018 17:00	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-6-13
Project Name: Rheem	Collection Date: 4/17/2018 5:10:00 PM
Lab ID: 1804H65-052	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	4.1		ug/Kg-dry	259663	1	04/24/2018 05:26	AR
1,1,2,2-Tetrachloroethane	BRL	4.1		ug/Kg-dry	259663	1	04/24/2018 05:26	AR
1,1,2-Trichloroethane	BRL	4.1		ug/Kg-dry	259663	1	04/24/2018 05:26	AR
1,1-Dichloroethane	BRL	4.1		ug/Kg-dry	259663	1	04/24/2018 05:26	AR
1,1-Dichloroethene	BRL	4.1		ug/Kg-dry	259663	1	04/24/2018 05:26	AR
1,2,4-Trichlorobenzene	BRL	4.1		ug/Kg-dry	259663	1	04/24/2018 05:26	AR
1,2-Dibromo-3-chloropropane	BRL	4.1		ug/Kg-dry	259663	1	04/24/2018 05:26	AR
1,2-Dibromoethane	BRL	4.1		ug/Kg-dry	259663	1	04/24/2018 05:26	AR
1,2-Dichlorobenzene	BRL	4.1		ug/Kg-dry	259663	1	04/24/2018 05:26	AR
1,2-Dichloroethane	BRL	4.1		ug/Kg-dry	259663	1	04/24/2018 05:26	AR
1,2-Dichloropropane	BRL	4.1		ug/Kg-dry	259663	1	04/24/2018 05:26	AR
1,3-Dichlorobenzene	BRL	4.1		ug/Kg-dry	259663	1	04/24/2018 05:26	AR
1,4-Dichlorobenzene	BRL	4.1		ug/Kg-dry	259663	1	04/24/2018 05:26	AR
2-Butanone	BRL	41		ug/Kg-dry	259663	1	04/24/2018 05:26	AR
2-Hexanone	BRL	8.1		ug/Kg-dry	259663	1	04/24/2018 05:26	AR
4-Methyl-2-pentanone	BRL	8.1		ug/Kg-dry	259663	1	04/24/2018 05:26	AR
Acetone	BRL	81		ug/Kg-dry	259663	1	04/24/2018 05:26	AR
Benzene	BRL	4.1		ug/Kg-dry	259663	1	04/24/2018 05:26	AR
Bromodichloromethane	BRL	4.1		ug/Kg-dry	259663	1	04/24/2018 05:26	AR
Bromoform	BRL	4.1		ug/Kg-dry	259663	1	04/24/2018 05:26	AR
Bromomethane	BRL	4.1		ug/Kg-dry	259663	1	04/24/2018 05:26	AR
Carbon disulfide	BRL	8.1		ug/Kg-dry	259663	1	04/24/2018 05:26	AR
Carbon tetrachloride	BRL	4.1		ug/Kg-dry	259663	1	04/24/2018 05:26	AR
Chlorobenzene	BRL	4.1		ug/Kg-dry	259663	1	04/24/2018 05:26	AR
Chloroethane	BRL	8.1		ug/Kg-dry	259663	1	04/24/2018 05:26	AR
Chloroform	BRL	4.1		ug/Kg-dry	259663	1	04/24/2018 05:26	AR
Chloromethane	BRL	8.1		ug/Kg-dry	259663	1	04/24/2018 05:26	AR
cis-1,2-Dichloroethene	BRL	4.1		ug/Kg-dry	259663	1	04/24/2018 05:26	AR
cis-1,3-Dichloropropene	BRL	4.1		ug/Kg-dry	259663	1	04/24/2018 05:26	AR
Cyclohexane	BRL	4.1		ug/Kg-dry	259663	1	04/24/2018 05:26	AR
Dibromochloromethane	BRL	4.1		ug/Kg-dry	259663	1	04/24/2018 05:26	AR
Dichlorodifluoromethane	BRL	8.1		ug/Kg-dry	259663	1	04/24/2018 05:26	AR
Ethylbenzene	BRL	4.1		ug/Kg-dry	259663	1	04/24/2018 05:26	AR
Freon-113	BRL	8.1		ug/Kg-dry	259663	1	04/24/2018 05:26	AR
Isopropylbenzene	BRL	4.1		ug/Kg-dry	259663	1	04/24/2018 05:26	AR
m,p-Xylene	BRL	4.1		ug/Kg-dry	259663	1	04/24/2018 05:26	AR
Methyl acetate	BRL	4.1		ug/Kg-dry	259663	1	04/24/2018 05:26	AR
Methyl tert-butyl ether	BRL	4.1		ug/Kg-dry	259663	1	04/24/2018 05:26	AR
Methylcyclohexane	BRL	4.1		ug/Kg-dry	259663	1	04/24/2018 05:26	AR
Methylene chloride	BRL	16		ug/Kg-dry	259663	1	04/24/2018 05:26	AR
o-Xylene	BRL	4.1		ug/Kg-dry	259663	1	04/24/2018 05:26	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-6-13
Project Name: Rheem	Collection Date: 4/17/2018 5:10:00 PM
Lab ID: 1804H65-052	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
Styrene	BRL	4.1		ug/Kg-dry	259663	1	04/24/2018 05:26	AR
Tetrachloroethene	BRL	4.1		ug/Kg-dry	259663	1	04/24/2018 05:26	AR
Toluene	BRL	4.1		ug/Kg-dry	259663	1	04/24/2018 05:26	AR
trans-1,2-Dichloroethene	BRL	4.1		ug/Kg-dry	259663	1	04/24/2018 05:26	AR
trans-1,3-Dichloropropene	BRL	4.1		ug/Kg-dry	259663	1	04/24/2018 05:26	AR
Trichloroethene	7.8	4.1		ug/Kg-dry	259663	1	04/24/2018 05:26	AR
Trichlorofluoromethane	BRL	4.1		ug/Kg-dry	259663	1	04/24/2018 05:26	AR
Vinyl chloride	BRL	8.1		ug/Kg-dry	259663	1	04/24/2018 05:26	AR
Surr: 4-Bromofluorobenzene	88	65-133		%REC	259663	1	04/24/2018 05:26	AR
Surr: Dibromofluoromethane	112	75.8-119		%REC	259663	1	04/24/2018 05:26	AR
Surr: Toluene-d8	106	78.3-120		%REC	259663	1	04/24/2018 05:26	AR
PERCENT MOISTURE D2216								
Percent Moisture	23.7	0		wt%	R368387	1	04/20/2018 17:00	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-1-0.5
Project Name: Rheem	Collection Date: 4/18/2018 7:55:00 AM
Lab ID: 1804H65-053	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	3.2		ug/Kg-dry	259663	1	04/24/2018 05:52	AR
1,1,2,2-Tetrachloroethane	BRL	3.2		ug/Kg-dry	259663	1	04/24/2018 05:52	AR
1,1,2-Trichloroethane	BRL	3.2		ug/Kg-dry	259663	1	04/24/2018 05:52	AR
1,1-Dichloroethane	BRL	3.2		ug/Kg-dry	259663	1	04/24/2018 05:52	AR
1,1-Dichloroethene	BRL	3.2		ug/Kg-dry	259663	1	04/24/2018 05:52	AR
1,2,4-Trichlorobenzene	BRL	3.2		ug/Kg-dry	259663	1	04/24/2018 05:52	AR
1,2-Dibromo-3-chloropropane	BRL	3.2		ug/Kg-dry	259663	1	04/24/2018 05:52	AR
1,2-Dibromoethane	BRL	3.2		ug/Kg-dry	259663	1	04/24/2018 05:52	AR
1,2-Dichlorobenzene	BRL	3.2		ug/Kg-dry	259663	1	04/24/2018 05:52	AR
1,2-Dichloroethane	BRL	3.2		ug/Kg-dry	259663	1	04/24/2018 05:52	AR
1,2-Dichloropropane	BRL	3.2		ug/Kg-dry	259663	1	04/24/2018 05:52	AR
1,3-Dichlorobenzene	BRL	3.2		ug/Kg-dry	259663	1	04/24/2018 05:52	AR
1,4-Dichlorobenzene	BRL	3.2		ug/Kg-dry	259663	1	04/24/2018 05:52	AR
2-Butanone	BRL	32		ug/Kg-dry	259663	1	04/24/2018 05:52	AR
2-Hexanone	BRL	6.3		ug/Kg-dry	259663	1	04/24/2018 05:52	AR
4-Methyl-2-pentanone	BRL	6.3		ug/Kg-dry	259663	1	04/24/2018 05:52	AR
Acetone	BRL	63		ug/Kg-dry	259663	1	04/24/2018 05:52	AR
Benzene	BRL	3.2		ug/Kg-dry	259663	1	04/24/2018 05:52	AR
Bromodichloromethane	BRL	3.2		ug/Kg-dry	259663	1	04/24/2018 05:52	AR
Bromoform	BRL	3.2		ug/Kg-dry	259663	1	04/24/2018 05:52	AR
Bromomethane	BRL	3.2		ug/Kg-dry	259663	1	04/24/2018 05:52	AR
Carbon disulfide	BRL	6.3		ug/Kg-dry	259663	1	04/24/2018 05:52	AR
Carbon tetrachloride	BRL	3.2		ug/Kg-dry	259663	1	04/24/2018 05:52	AR
Chlorobenzene	BRL	3.2		ug/Kg-dry	259663	1	04/24/2018 05:52	AR
Chloroethane	BRL	6.3		ug/Kg-dry	259663	1	04/24/2018 05:52	AR
Chloroform	BRL	3.2		ug/Kg-dry	259663	1	04/24/2018 05:52	AR
Chloromethane	BRL	6.3		ug/Kg-dry	259663	1	04/24/2018 05:52	AR
cis-1,2-Dichloroethene	BRL	3.2		ug/Kg-dry	259663	1	04/24/2018 05:52	AR
cis-1,3-Dichloropropene	BRL	3.2		ug/Kg-dry	259663	1	04/24/2018 05:52	AR
Cyclohexane	BRL	3.2		ug/Kg-dry	259663	1	04/24/2018 05:52	AR
Dibromochloromethane	BRL	3.2		ug/Kg-dry	259663	1	04/24/2018 05:52	AR
Dichlorodifluoromethane	BRL	6.3		ug/Kg-dry	259663	1	04/24/2018 05:52	AR
Ethylbenzene	BRL	3.2		ug/Kg-dry	259663	1	04/24/2018 05:52	AR
Freon-113	BRL	6.3		ug/Kg-dry	259663	1	04/24/2018 05:52	AR
Isopropylbenzene	BRL	3.2		ug/Kg-dry	259663	1	04/24/2018 05:52	AR
m,p-Xylene	BRL	3.2		ug/Kg-dry	259663	1	04/24/2018 05:52	AR
Methyl acetate	BRL	3.2		ug/Kg-dry	259663	1	04/24/2018 05:52	AR
Methyl tert-butyl ether	BRL	3.2		ug/Kg-dry	259663	1	04/24/2018 05:52	AR
Methylcyclohexane	BRL	3.2		ug/Kg-dry	259663	1	04/24/2018 05:52	AR
Methylene chloride	BRL	13		ug/Kg-dry	259663	1	04/24/2018 05:52	AR
o-Xylene	BRL	3.2		ug/Kg-dry	259663	1	04/24/2018 05:52	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-1-0.5
Project Name: Rheem	Collection Date: 4/18/2018 7:55:00 AM
Lab ID: 1804H65-053	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B			(SW5035)					
Styrene	BRL	3.2		ug/Kg-dry	259663	1	04/24/2018 05:52	AR
Tetrachloroethene	BRL	3.2		ug/Kg-dry	259663	1	04/24/2018 05:52	AR
Toluene	BRL	3.2		ug/Kg-dry	259663	1	04/24/2018 05:52	AR
trans-1,2-Dichloroethene	BRL	3.2		ug/Kg-dry	259663	1	04/24/2018 05:52	AR
trans-1,3-Dichloropropene	BRL	3.2		ug/Kg-dry	259663	1	04/24/2018 05:52	AR
Trichloroethene	15	3.2		ug/Kg-dry	259663	1	04/24/2018 05:52	AR
Trichlorofluoromethane	BRL	3.2		ug/Kg-dry	259663	1	04/24/2018 05:52	AR
Vinyl chloride	BRL	6.3		ug/Kg-dry	259663	1	04/24/2018 05:52	AR
Surr: 4-Bromofluorobenzene	87.1	65-133		%REC	259663	1	04/24/2018 05:52	AR
Surr: Dibromofluoromethane	118	75.8-119		%REC	259663	1	04/24/2018 05:52	AR
Surr: Toluene-d8	107	78.3-120		%REC	259663	1	04/24/2018 05:52	AR
PERCENT MOISTURE D2216								
Percent Moisture	10.8	0		wt%	R368387	1	04/20/2018 17:00	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-1-1.5
Project Name: Rheem	Collection Date: 4/18/2018 8:00:00 AM
Lab ID: 1804H65-054	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 06:18	AR
1,1,2,2-Tetrachloroethane	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 06:18	AR
1,1,2-Trichloroethane	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 06:18	AR
1,1-Dichloroethane	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 06:18	AR
1,1-Dichloroethene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 06:18	AR
1,2,4-Trichlorobenzene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 06:18	AR
1,2-Dibromo-3-chloropropane	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 06:18	AR
1,2-Dibromoethane	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 06:18	AR
1,2-Dichlorobenzene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 06:18	AR
1,2-Dichloroethane	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 06:18	AR
1,2-Dichloropropane	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 06:18	AR
1,3-Dichlorobenzene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 06:18	AR
1,4-Dichlorobenzene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 06:18	AR
2-Butanone	BRL	34		ug/Kg-dry	259663	1	04/24/2018 06:18	AR
2-Hexanone	BRL	6.8		ug/Kg-dry	259663	1	04/24/2018 06:18	AR
4-Methyl-2-pentanone	BRL	6.8		ug/Kg-dry	259663	1	04/24/2018 06:18	AR
Acetone	BRL	68		ug/Kg-dry	259663	1	04/24/2018 06:18	AR
Benzene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 06:18	AR
Bromodichloromethane	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 06:18	AR
Bromoform	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 06:18	AR
Bromomethane	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 06:18	AR
Carbon disulfide	BRL	6.8		ug/Kg-dry	259663	1	04/24/2018 06:18	AR
Carbon tetrachloride	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 06:18	AR
Chlorobenzene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 06:18	AR
Chloroethane	BRL	6.8		ug/Kg-dry	259663	1	04/24/2018 06:18	AR
Chloroform	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 06:18	AR
Chloromethane	BRL	6.8		ug/Kg-dry	259663	1	04/24/2018 06:18	AR
cis-1,2-Dichloroethene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 06:18	AR
cis-1,3-Dichloropropene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 06:18	AR
Cyclohexane	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 06:18	AR
Dibromochloromethane	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 06:18	AR
Dichlorodifluoromethane	BRL	6.8		ug/Kg-dry	259663	1	04/24/2018 06:18	AR
Ethylbenzene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 06:18	AR
Freon-113	BRL	6.8		ug/Kg-dry	259663	1	04/24/2018 06:18	AR
Isopropylbenzene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 06:18	AR
m,p-Xylene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 06:18	AR
Methyl acetate	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 06:18	AR
Methyl tert-butyl ether	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 06:18	AR
Methylcyclohexane	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 06:18	AR
Methylene chloride	BRL	14		ug/Kg-dry	259663	1	04/24/2018 06:18	AR
o-Xylene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 06:18	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-1-1.5
Project Name: Rheem	Collection Date: 4/18/2018 8:00:00 AM
Lab ID: 1804H65-054	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
Styrene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 06:18	AR
Tetrachloroethene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 06:18	AR
Toluene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 06:18	AR
trans-1,2-Dichloroethene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 06:18	AR
trans-1,3-Dichloropropene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 06:18	AR
Trichloroethene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 06:18	AR
Trichlorofluoromethane	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 06:18	AR
Vinyl chloride	BRL	6.8		ug/Kg-dry	259663	1	04/24/2018 06:18	AR
Surr: 4-Bromofluorobenzene	88.8	65-133		%REC	259663	1	04/24/2018 06:18	AR
Surr: Dibromofluoromethane	111	75.8-119		%REC	259663	1	04/24/2018 06:18	AR
Surr: Toluene-d8	111	78.3-120		%REC	259663	1	04/24/2018 06:18	AR
PERCENT MOISTURE D2216								
Percent Moisture	17.4	0		wt%	R368387	1	04/20/2018 17:00	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-1-4
Project Name: Rheem	Collection Date: 4/18/2018 8:05:00 AM
Lab ID: 1804H65-055	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	3.1		ug/Kg-dry	259663	1	04/25/2018 14:35	AR
1,1,2,2-Tetrachloroethane	BRL	3.1		ug/Kg-dry	259663	1	04/25/2018 14:35	AR
1,1,2-Trichloroethane	BRL	3.1		ug/Kg-dry	259663	1	04/25/2018 14:35	AR
1,1-Dichloroethane	BRL	3.1		ug/Kg-dry	259663	1	04/25/2018 14:35	AR
1,1-Dichloroethene	BRL	3.1		ug/Kg-dry	259663	1	04/25/2018 14:35	AR
1,2,4-Trichlorobenzene	BRL	3.1		ug/Kg-dry	259663	1	04/25/2018 14:35	AR
1,2-Dibromo-3-chloropropane	BRL	3.1		ug/Kg-dry	259663	1	04/25/2018 14:35	AR
1,2-Dibromoethane	BRL	3.1		ug/Kg-dry	259663	1	04/25/2018 14:35	AR
1,2-Dichlorobenzene	BRL	3.1		ug/Kg-dry	259663	1	04/25/2018 14:35	AR
1,2-Dichloroethane	BRL	3.1		ug/Kg-dry	259663	1	04/25/2018 14:35	AR
1,2-Dichloropropane	BRL	3.1		ug/Kg-dry	259663	1	04/25/2018 14:35	AR
1,3-Dichlorobenzene	BRL	3.1		ug/Kg-dry	259663	1	04/25/2018 14:35	AR
1,4-Dichlorobenzene	BRL	3.1		ug/Kg-dry	259663	1	04/25/2018 14:35	AR
2-Butanone	BRL	31		ug/Kg-dry	259663	1	04/25/2018 14:35	AR
2-Hexanone	BRL	6.2		ug/Kg-dry	259663	1	04/25/2018 14:35	AR
4-Methyl-2-pentanone	BRL	6.2		ug/Kg-dry	259663	1	04/25/2018 14:35	AR
Acetone	BRL	62		ug/Kg-dry	259663	1	04/25/2018 14:35	AR
Benzene	BRL	3.1		ug/Kg-dry	259663	1	04/25/2018 14:35	AR
Bromodichloromethane	BRL	3.1		ug/Kg-dry	259663	1	04/25/2018 14:35	AR
Bromoform	BRL	3.1		ug/Kg-dry	259663	1	04/25/2018 14:35	AR
Bromomethane	BRL	3.1		ug/Kg-dry	259663	1	04/25/2018 14:35	AR
Carbon disulfide	BRL	6.2		ug/Kg-dry	259663	1	04/25/2018 14:35	AR
Carbon tetrachloride	BRL	3.1		ug/Kg-dry	259663	1	04/25/2018 14:35	AR
Chlorobenzene	BRL	3.1		ug/Kg-dry	259663	1	04/25/2018 14:35	AR
Chloroethane	BRL	6.2		ug/Kg-dry	259663	1	04/25/2018 14:35	AR
Chloroform	BRL	3.1		ug/Kg-dry	259663	1	04/25/2018 14:35	AR
Chloromethane	BRL	6.2		ug/Kg-dry	259663	1	04/25/2018 14:35	AR
cis-1,2-Dichloroethene	BRL	3.1		ug/Kg-dry	259663	1	04/25/2018 14:35	AR
cis-1,3-Dichloropropene	BRL	3.1		ug/Kg-dry	259663	1	04/25/2018 14:35	AR
Cyclohexane	BRL	3.1		ug/Kg-dry	259663	1	04/25/2018 14:35	AR
Dibromochloromethane	BRL	3.1		ug/Kg-dry	259663	1	04/25/2018 14:35	AR
Dichlorodifluoromethane	BRL	6.2		ug/Kg-dry	259663	1	04/25/2018 14:35	AR
Ethylbenzene	BRL	3.1		ug/Kg-dry	259663	1	04/25/2018 14:35	AR
Freon-113	BRL	6.2		ug/Kg-dry	259663	1	04/25/2018 14:35	AR
Isopropylbenzene	BRL	3.1		ug/Kg-dry	259663	1	04/25/2018 14:35	AR
m,p-Xylene	BRL	3.1		ug/Kg-dry	259663	1	04/25/2018 14:35	AR
Methyl acetate	BRL	3.1		ug/Kg-dry	259663	1	04/25/2018 14:35	AR
Methyl tert-butyl ether	BRL	3.1		ug/Kg-dry	259663	1	04/25/2018 14:35	AR
Methylcyclohexane	BRL	3.1		ug/Kg-dry	259663	1	04/25/2018 14:35	AR
Methylene chloride	BRL	12		ug/Kg-dry	259663	1	04/25/2018 14:35	AR
o-Xylene	BRL	3.1		ug/Kg-dry	259663	1	04/25/2018 14:35	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-1-4
Project Name: Rheem	Collection Date: 4/18/2018 8:05:00 AM
Lab ID: 1804H65-055	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
Styrene	BRL	3.1		ug/Kg-dry	259663	1	04/25/2018 14:35	AR
Tetrachloroethene	BRL	3.1		ug/Kg-dry	259663	1	04/25/2018 14:35	AR
Toluene	BRL	3.1		ug/Kg-dry	259663	1	04/25/2018 14:35	AR
trans-1,2-Dichloroethene	BRL	3.1		ug/Kg-dry	259663	1	04/25/2018 14:35	AR
trans-1,3-Dichloropropene	BRL	3.1		ug/Kg-dry	259663	1	04/25/2018 14:35	AR
Trichloroethene	6.9	3.1		ug/Kg-dry	259663	1	04/25/2018 14:35	AR
Trichlorofluoromethane	BRL	3.1		ug/Kg-dry	259663	1	04/25/2018 14:35	AR
Vinyl chloride	BRL	6.2		ug/Kg-dry	259663	1	04/25/2018 14:35	AR
Surr: 4-Bromofluorobenzene	93.3	65-133		%REC	259663	1	04/25/2018 14:35	AR
Surr: Dibromofluoromethane	90.7	75.8-119		%REC	259663	1	04/25/2018 14:35	AR
Surr: Toluene-d8	100	78.3-120		%REC	259663	1	04/25/2018 14:35	AR
PERCENT MOISTURE D2216								
Percent Moisture	13.3	0		wt%	R368387	1	04/20/2018 17:00	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-1-8
Project Name: Rheem	Collection Date: 4/18/2018 8:10:00 AM
Lab ID: 1804H65-056	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 16:23	AR
1,1,2,2-Tetrachloroethane	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 16:23	AR
1,1,2-Trichloroethane	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 16:23	AR
1,1-Dichloroethane	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 16:23	AR
1,1-Dichloroethene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 16:23	AR
1,2,4-Trichlorobenzene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 16:23	AR
1,2-Dibromo-3-chloropropane	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 16:23	AR
1,2-Dibromoethane	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 16:23	AR
1,2-Dichlorobenzene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 16:23	AR
1,2-Dichloroethane	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 16:23	AR
1,2-Dichloropropane	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 16:23	AR
1,3-Dichlorobenzene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 16:23	AR
1,4-Dichlorobenzene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 16:23	AR
2-Butanone	BRL	34		ug/Kg-dry	259663	1	04/24/2018 16:23	AR
2-Hexanone	BRL	6.8		ug/Kg-dry	259663	1	04/24/2018 16:23	AR
4-Methyl-2-pentanone	BRL	6.8		ug/Kg-dry	259663	1	04/24/2018 16:23	AR
Acetone	BRL	68		ug/Kg-dry	259663	1	04/24/2018 16:23	AR
Benzene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 16:23	AR
Bromodichloromethane	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 16:23	AR
Bromoform	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 16:23	AR
Bromomethane	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 16:23	AR
Carbon disulfide	BRL	6.8		ug/Kg-dry	259663	1	04/24/2018 16:23	AR
Carbon tetrachloride	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 16:23	AR
Chlorobenzene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 16:23	AR
Chloroethane	BRL	6.8		ug/Kg-dry	259663	1	04/24/2018 16:23	AR
Chloroform	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 16:23	AR
Chloromethane	BRL	6.8		ug/Kg-dry	259663	1	04/24/2018 16:23	AR
cis-1,2-Dichloroethene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 16:23	AR
cis-1,3-Dichloropropene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 16:23	AR
Cyclohexane	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 16:23	AR
Dibromochloromethane	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 16:23	AR
Dichlorodifluoromethane	BRL	6.8		ug/Kg-dry	259663	1	04/24/2018 16:23	AR
Ethylbenzene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 16:23	AR
Freon-113	BRL	6.8		ug/Kg-dry	259663	1	04/24/2018 16:23	AR
Isopropylbenzene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 16:23	AR
m,p-Xylene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 16:23	AR
Methyl acetate	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 16:23	AR
Methyl tert-butyl ether	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 16:23	AR
Methylcyclohexane	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 16:23	AR
Methylene chloride	BRL	14		ug/Kg-dry	259663	1	04/24/2018 16:23	AR
o-Xylene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 16:23	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18107-SCS-1-8
Project Name: Rheem	Collection Date: 4/18/2018 8:10:00 AM
Lab ID: 1804H65-056	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
Styrene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 16:23	AR
Tetrachloroethene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 16:23	AR
Toluene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 16:23	AR
trans-1,2-Dichloroethene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 16:23	AR
trans-1,3-Dichloropropene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 16:23	AR
Trichloroethene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 16:23	AR
Trichlorofluoromethane	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 16:23	AR
Vinyl chloride	BRL	6.8		ug/Kg-dry	259663	1	04/24/2018 16:23	AR
Surr: 4-Bromofluorobenzene	87.6	65-133		%REC	259663	1	04/24/2018 16:23	AR
Surr: Dibromofluoromethane	111	75.8-119		%REC	259663	1	04/24/2018 16:23	AR
Surr: Toluene-d8	110	78.3-120		%REC	259663	1	04/24/2018 16:23	AR
PERCENT MOISTURE D2216								
Percent Moisture	17.6	0		wt%	R368387	1	04/20/2018 17:00	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18108-SCS-1-13
Project Name: Rheem	Collection Date: 4/18/2018
Lab ID: 1804H65-057	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B			(SW5035)					
1,1,1-Trichloroethane	BRL	3.7		ug/Kg-dry	259663	1	04/24/2018 17:16	AR
1,1,2,2-Tetrachloroethane	BRL	3.7		ug/Kg-dry	259663	1	04/24/2018 17:16	AR
1,1,2-Trichloroethane	BRL	3.7		ug/Kg-dry	259663	1	04/24/2018 17:16	AR
1,1-Dichloroethane	BRL	3.7		ug/Kg-dry	259663	1	04/24/2018 17:16	AR
1,1-Dichloroethene	BRL	3.7		ug/Kg-dry	259663	1	04/24/2018 17:16	AR
1,2,4-Trichlorobenzene	BRL	3.7		ug/Kg-dry	259663	1	04/24/2018 17:16	AR
1,2-Dibromo-3-chloropropane	BRL	3.7		ug/Kg-dry	259663	1	04/24/2018 17:16	AR
1,2-Dibromoethane	BRL	3.7		ug/Kg-dry	259663	1	04/24/2018 17:16	AR
1,2-Dichlorobenzene	BRL	3.7		ug/Kg-dry	259663	1	04/24/2018 17:16	AR
1,2-Dichloroethane	BRL	3.7		ug/Kg-dry	259663	1	04/24/2018 17:16	AR
1,2-Dichloropropane	BRL	3.7		ug/Kg-dry	259663	1	04/24/2018 17:16	AR
1,3-Dichlorobenzene	BRL	3.7		ug/Kg-dry	259663	1	04/24/2018 17:16	AR
1,4-Dichlorobenzene	BRL	3.7		ug/Kg-dry	259663	1	04/24/2018 17:16	AR
2-Butanone	BRL	37		ug/Kg-dry	259663	1	04/24/2018 17:16	AR
2-Hexanone	BRL	7.3		ug/Kg-dry	259663	1	04/24/2018 17:16	AR
4-Methyl-2-pentanone	BRL	7.3		ug/Kg-dry	259663	1	04/24/2018 17:16	AR
Acetone	BRL	73		ug/Kg-dry	259663	1	04/24/2018 17:16	AR
Benzene	BRL	3.7		ug/Kg-dry	259663	1	04/24/2018 17:16	AR
Bromodichloromethane	BRL	3.7		ug/Kg-dry	259663	1	04/24/2018 17:16	AR
Bromoform	BRL	3.7		ug/Kg-dry	259663	1	04/24/2018 17:16	AR
Bromomethane	BRL	3.7		ug/Kg-dry	259663	1	04/24/2018 17:16	AR
Carbon disulfide	BRL	7.3		ug/Kg-dry	259663	1	04/24/2018 17:16	AR
Carbon tetrachloride	BRL	3.7		ug/Kg-dry	259663	1	04/24/2018 17:16	AR
Chlorobenzene	BRL	3.7		ug/Kg-dry	259663	1	04/24/2018 17:16	AR
Chloroethane	BRL	7.3		ug/Kg-dry	259663	1	04/24/2018 17:16	AR
Chloroform	BRL	3.7		ug/Kg-dry	259663	1	04/24/2018 17:16	AR
Chloromethane	BRL	7.3		ug/Kg-dry	259663	1	04/24/2018 17:16	AR
cis-1,2-Dichloroethene	BRL	3.7		ug/Kg-dry	259663	1	04/24/2018 17:16	AR
cis-1,3-Dichloropropene	BRL	3.7		ug/Kg-dry	259663	1	04/24/2018 17:16	AR
Cyclohexane	BRL	3.7		ug/Kg-dry	259663	1	04/24/2018 17:16	AR
Dibromochloromethane	BRL	3.7		ug/Kg-dry	259663	1	04/24/2018 17:16	AR
Dichlorodifluoromethane	BRL	7.3		ug/Kg-dry	259663	1	04/24/2018 17:16	AR
Ethylbenzene	BRL	3.7		ug/Kg-dry	259663	1	04/24/2018 17:16	AR
Freon-113	BRL	7.3		ug/Kg-dry	259663	1	04/24/2018 17:16	AR
Isopropylbenzene	BRL	3.7		ug/Kg-dry	259663	1	04/24/2018 17:16	AR
m,p-Xylene	BRL	3.7		ug/Kg-dry	259663	1	04/24/2018 17:16	AR
Methyl acetate	BRL	3.7		ug/Kg-dry	259663	1	04/24/2018 17:16	AR
Methyl tert-butyl ether	BRL	3.7		ug/Kg-dry	259663	1	04/24/2018 17:16	AR
Methylcyclohexane	BRL	3.7		ug/Kg-dry	259663	1	04/24/2018 17:16	AR
Methylene chloride	BRL	15		ug/Kg-dry	259663	1	04/24/2018 17:16	AR
o-Xylene	BRL	3.7		ug/Kg-dry	259663	1	04/24/2018 17:16	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18108-SCS-1-13
Project Name: Rheem	Collection Date: 4/18/2018
Lab ID: 1804H65-057	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B		(SW5035)						
Styrene	BRL	3.7		ug/Kg-dry	259663	1	04/24/2018 17:16	AR
Tetrachloroethene	BRL	3.7		ug/Kg-dry	259663	1	04/24/2018 17:16	AR
Toluene	BRL	3.7		ug/Kg-dry	259663	1	04/24/2018 17:16	AR
trans-1,2-Dichloroethene	BRL	3.7		ug/Kg-dry	259663	1	04/24/2018 17:16	AR
trans-1,3-Dichloropropene	BRL	3.7		ug/Kg-dry	259663	1	04/24/2018 17:16	AR
Trichloroethene	BRL	3.7		ug/Kg-dry	259663	1	04/24/2018 17:16	AR
Trichlorofluoromethane	BRL	3.7		ug/Kg-dry	259663	1	04/24/2018 17:16	AR
Vinyl chloride	BRL	7.3		ug/Kg-dry	259663	1	04/24/2018 17:16	AR
Surr: 4-Bromofluorobenzene	87.1	65-133		%REC	259663	1	04/24/2018 17:16	AR
Surr: Dibromofluoromethane	127	75.8-119	S	%REC	259663	1	04/24/2018 17:16	AR
Surr: Toluene-d8	111	78.3-120		%REC	259663	1	04/24/2018 17:16	AR
PERCENT MOISTURE D2216								
Percent Moisture	18.5	0		wt%	R368387	1	04/20/2018 17:00	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18108-SCS-4-0.5
Project Name: Rheem	Collection Date: 4/18/2018 8:50:00 AM
Lab ID: 1804H65-058	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 17:42	AR
1,1,2,2-Tetrachloroethane	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 17:42	AR
1,1,2-Trichloroethane	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 17:42	AR
1,1-Dichloroethane	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 17:42	AR
1,1-Dichloroethene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 17:42	AR
1,2,4-Trichlorobenzene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 17:42	AR
1,2-Dibromo-3-chloropropane	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 17:42	AR
1,2-Dibromoethane	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 17:42	AR
1,2-Dichlorobenzene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 17:42	AR
1,2-Dichloroethane	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 17:42	AR
1,2-Dichloropropane	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 17:42	AR
1,3-Dichlorobenzene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 17:42	AR
1,4-Dichlorobenzene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 17:42	AR
2-Butanone	BRL	34		ug/Kg-dry	259663	1	04/24/2018 17:42	AR
2-Hexanone	BRL	6.8		ug/Kg-dry	259663	1	04/24/2018 17:42	AR
4-Methyl-2-pentanone	BRL	6.8		ug/Kg-dry	259663	1	04/24/2018 17:42	AR
Acetone	BRL	68		ug/Kg-dry	259663	1	04/24/2018 17:42	AR
Benzene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 17:42	AR
Bromodichloromethane	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 17:42	AR
Bromoform	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 17:42	AR
Bromomethane	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 17:42	AR
Carbon disulfide	BRL	6.8		ug/Kg-dry	259663	1	04/24/2018 17:42	AR
Carbon tetrachloride	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 17:42	AR
Chlorobenzene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 17:42	AR
Chloroethane	BRL	6.8		ug/Kg-dry	259663	1	04/24/2018 17:42	AR
Chloroform	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 17:42	AR
Chloromethane	BRL	6.8		ug/Kg-dry	259663	1	04/24/2018 17:42	AR
cis-1,2-Dichloroethene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 17:42	AR
cis-1,3-Dichloropropene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 17:42	AR
Cyclohexane	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 17:42	AR
Dibromochloromethane	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 17:42	AR
Dichlorodifluoromethane	BRL	6.8		ug/Kg-dry	259663	1	04/24/2018 17:42	AR
Ethylbenzene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 17:42	AR
Freon-113	BRL	6.8		ug/Kg-dry	259663	1	04/24/2018 17:42	AR
Isopropylbenzene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 17:42	AR
m,p-Xylene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 17:42	AR
Methyl acetate	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 17:42	AR
Methyl tert-butyl ether	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 17:42	AR
Methylcyclohexane	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 17:42	AR
Methylene chloride	BRL	14		ug/Kg-dry	259663	1	04/24/2018 17:42	AR
o-Xylene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 17:42	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18108-SCS-4-0.5
Project Name: Rheem	Collection Date: 4/18/2018 8:50:00 AM
Lab ID: 1804H65-058	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5035)			
Styrene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 17:42	AR
Tetrachloroethene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 17:42	AR
Toluene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 17:42	AR
trans-1,2-Dichloroethene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 17:42	AR
trans-1,3-Dichloropropene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 17:42	AR
Trichloroethene	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 17:42	AR
Trichlorofluoromethane	BRL	3.4		ug/Kg-dry	259663	1	04/24/2018 17:42	AR
Vinyl chloride	BRL	6.8		ug/Kg-dry	259663	1	04/24/2018 17:42	AR
Surr: 4-Bromofluorobenzene	88.6	65-133		%REC	259663	1	04/24/2018 17:42	AR
Surr: Dibromofluoromethane	114	75.8-119		%REC	259663	1	04/24/2018 17:42	AR
Surr: Toluene-d8	111	78.3-120		%REC	259663	1	04/24/2018 17:42	AR
PERCENT MOISTURE D2216								
Percent Moisture	16.2	0		wt%	R368387	1	04/20/2018 17:00	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18108-SCS-4-1
Project Name: Rheem	Collection Date: 4/18/2018 8:55:00 AM
Lab ID: 1804H65-059	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	4.7		ug/Kg-dry	259663	1	04/24/2018 18:09	AR
1,1,2,2-Tetrachloroethane	BRL	4.7		ug/Kg-dry	259663	1	04/24/2018 18:09	AR
1,1,2-Trichloroethane	BRL	4.7		ug/Kg-dry	259663	1	04/24/2018 18:09	AR
1,1-Dichloroethane	BRL	4.7		ug/Kg-dry	259663	1	04/24/2018 18:09	AR
1,1-Dichloroethene	BRL	4.7		ug/Kg-dry	259663	1	04/24/2018 18:09	AR
1,2,4-Trichlorobenzene	BRL	4.7		ug/Kg-dry	259663	1	04/24/2018 18:09	AR
1,2-Dibromo-3-chloropropane	BRL	4.7		ug/Kg-dry	259663	1	04/24/2018 18:09	AR
1,2-Dibromoethane	BRL	4.7		ug/Kg-dry	259663	1	04/24/2018 18:09	AR
1,2-Dichlorobenzene	BRL	4.7		ug/Kg-dry	259663	1	04/24/2018 18:09	AR
1,2-Dichloroethane	BRL	4.7		ug/Kg-dry	259663	1	04/24/2018 18:09	AR
1,2-Dichloropropane	BRL	4.7		ug/Kg-dry	259663	1	04/24/2018 18:09	AR
1,3-Dichlorobenzene	BRL	4.7		ug/Kg-dry	259663	1	04/24/2018 18:09	AR
1,4-Dichlorobenzene	BRL	4.7		ug/Kg-dry	259663	1	04/24/2018 18:09	AR
2-Butanone	BRL	47		ug/Kg-dry	259663	1	04/24/2018 18:09	AR
2-Hexanone	BRL	9.3		ug/Kg-dry	259663	1	04/24/2018 18:09	AR
4-Methyl-2-pentanone	BRL	9.3		ug/Kg-dry	259663	1	04/24/2018 18:09	AR
Acetone	BRL	93		ug/Kg-dry	259663	1	04/24/2018 18:09	AR
Benzene	BRL	4.7		ug/Kg-dry	259663	1	04/24/2018 18:09	AR
Bromodichloromethane	BRL	4.7		ug/Kg-dry	259663	1	04/24/2018 18:09	AR
Bromoform	BRL	4.7		ug/Kg-dry	259663	1	04/24/2018 18:09	AR
Bromomethane	BRL	4.7		ug/Kg-dry	259663	1	04/24/2018 18:09	AR
Carbon disulfide	BRL	9.3		ug/Kg-dry	259663	1	04/24/2018 18:09	AR
Carbon tetrachloride	BRL	4.7		ug/Kg-dry	259663	1	04/24/2018 18:09	AR
Chlorobenzene	BRL	4.7		ug/Kg-dry	259663	1	04/24/2018 18:09	AR
Chloroethane	BRL	9.3		ug/Kg-dry	259663	1	04/24/2018 18:09	AR
Chloroform	BRL	4.7		ug/Kg-dry	259663	1	04/24/2018 18:09	AR
Chloromethane	BRL	9.3		ug/Kg-dry	259663	1	04/24/2018 18:09	AR
cis-1,2-Dichloroethene	BRL	4.7		ug/Kg-dry	259663	1	04/24/2018 18:09	AR
cis-1,3-Dichloropropene	BRL	4.7		ug/Kg-dry	259663	1	04/24/2018 18:09	AR
Cyclohexane	BRL	4.7		ug/Kg-dry	259663	1	04/24/2018 18:09	AR
Dibromochloromethane	BRL	4.7		ug/Kg-dry	259663	1	04/24/2018 18:09	AR
Dichlorodifluoromethane	BRL	9.3		ug/Kg-dry	259663	1	04/24/2018 18:09	AR
Ethylbenzene	BRL	4.7		ug/Kg-dry	259663	1	04/24/2018 18:09	AR
Freon-113	BRL	9.3		ug/Kg-dry	259663	1	04/24/2018 18:09	AR
Isopropylbenzene	BRL	4.7		ug/Kg-dry	259663	1	04/24/2018 18:09	AR
m,p-Xylene	BRL	4.7		ug/Kg-dry	259663	1	04/24/2018 18:09	AR
Methyl acetate	BRL	4.7		ug/Kg-dry	259663	1	04/24/2018 18:09	AR
Methyl tert-butyl ether	BRL	4.7		ug/Kg-dry	259663	1	04/24/2018 18:09	AR
Methylcyclohexane	BRL	4.7		ug/Kg-dry	259663	1	04/24/2018 18:09	AR
Methylene chloride	BRL	19		ug/Kg-dry	259663	1	04/24/2018 18:09	AR
o-Xylene	BRL	4.7		ug/Kg-dry	259663	1	04/24/2018 18:09	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18108-SCS-4-1
Project Name: Rheem	Collection Date: 4/18/2018 8:55:00 AM
Lab ID: 1804H65-059	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B			(SW5035)					
Styrene	BRL	4.7		ug/Kg-dry	259663	1	04/24/2018 18:09	AR
Tetrachloroethene	BRL	4.7		ug/Kg-dry	259663	1	04/24/2018 18:09	AR
Toluene	BRL	4.7		ug/Kg-dry	259663	1	04/24/2018 18:09	AR
trans-1,2-Dichloroethene	BRL	4.7		ug/Kg-dry	259663	1	04/24/2018 18:09	AR
trans-1,3-Dichloropropene	BRL	4.7		ug/Kg-dry	259663	1	04/24/2018 18:09	AR
Trichloroethene	BRL	4.7		ug/Kg-dry	259663	1	04/24/2018 18:09	AR
Trichlorofluoromethane	BRL	4.7		ug/Kg-dry	259663	1	04/24/2018 18:09	AR
Vinyl chloride	BRL	9.3		ug/Kg-dry	259663	1	04/24/2018 18:09	AR
Surr: 4-Bromofluorobenzene	88	65-133		%REC	259663	1	04/24/2018 18:09	AR
Surr: Dibromofluoromethane	118	75.8-119		%REC	259663	1	04/24/2018 18:09	AR
Surr: Toluene-d8	110	78.3-120		%REC	259663	1	04/24/2018 18:09	AR
PERCENT MOISTURE D2216								
Percent Moisture	23.9	0		wt%	R368387	1	04/20/2018 17:00	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18108-SCS-4-4
Project Name: Rheem	Collection Date: 4/18/2018 9:00:00 AM
Lab ID: 1804H65-060	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	3.8		ug/Kg-dry	259794	1	04/26/2018 14:42	AR
1,1,2,2-Tetrachloroethane	BRL	3.8		ug/Kg-dry	259794	1	04/26/2018 14:42	AR
1,1,2-Trichloroethane	BRL	3.8		ug/Kg-dry	259794	1	04/26/2018 14:42	AR
1,1-Dichloroethane	BRL	3.8		ug/Kg-dry	259794	1	04/26/2018 14:42	AR
1,1-Dichloroethene	BRL	3.8		ug/Kg-dry	259794	1	04/26/2018 14:42	AR
1,2,4-Trichlorobenzene	BRL	3.8		ug/Kg-dry	259794	1	04/26/2018 14:42	AR
1,2-Dibromo-3-chloropropane	BRL	3.8		ug/Kg-dry	259794	1	04/26/2018 14:42	AR
1,2-Dibromoethane	BRL	3.8		ug/Kg-dry	259794	1	04/26/2018 14:42	AR
1,2-Dichlorobenzene	BRL	3.8		ug/Kg-dry	259794	1	04/26/2018 14:42	AR
1,2-Dichloroethane	BRL	3.8		ug/Kg-dry	259794	1	04/26/2018 14:42	AR
1,2-Dichloropropane	BRL	3.8		ug/Kg-dry	259794	1	04/26/2018 14:42	AR
1,3-Dichlorobenzene	BRL	3.8		ug/Kg-dry	259794	1	04/26/2018 14:42	AR
1,4-Dichlorobenzene	BRL	3.8		ug/Kg-dry	259794	1	04/26/2018 14:42	AR
2-Butanone	BRL	38		ug/Kg-dry	259794	1	04/26/2018 14:42	AR
2-Hexanone	BRL	7.6		ug/Kg-dry	259794	1	04/26/2018 14:42	AR
4-Methyl-2-pentanone	BRL	7.6		ug/Kg-dry	259794	1	04/26/2018 14:42	AR
Acetone	BRL	76		ug/Kg-dry	259794	1	04/26/2018 14:42	AR
Benzene	BRL	3.8		ug/Kg-dry	259794	1	04/26/2018 14:42	AR
Bromodichloromethane	BRL	3.8		ug/Kg-dry	259794	1	04/26/2018 14:42	AR
Bromoform	BRL	3.8		ug/Kg-dry	259794	1	04/26/2018 14:42	AR
Bromomethane	BRL	3.8		ug/Kg-dry	259794	1	04/26/2018 14:42	AR
Carbon disulfide	BRL	7.6		ug/Kg-dry	259794	1	04/26/2018 14:42	AR
Carbon tetrachloride	BRL	3.8		ug/Kg-dry	259794	1	04/26/2018 14:42	AR
Chlorobenzene	BRL	3.8		ug/Kg-dry	259794	1	04/26/2018 14:42	AR
Chloroethane	BRL	7.6		ug/Kg-dry	259794	1	04/26/2018 14:42	AR
Chloroform	BRL	3.8		ug/Kg-dry	259794	1	04/26/2018 14:42	AR
Chloromethane	BRL	7.6		ug/Kg-dry	259794	1	04/26/2018 14:42	AR
cis-1,2-Dichloroethene	BRL	3.8		ug/Kg-dry	259794	1	04/26/2018 14:42	AR
cis-1,3-Dichloropropene	BRL	3.8		ug/Kg-dry	259794	1	04/26/2018 14:42	AR
Cyclohexane	BRL	3.8		ug/Kg-dry	259794	1	04/26/2018 14:42	AR
Dibromochloromethane	BRL	3.8		ug/Kg-dry	259794	1	04/26/2018 14:42	AR
Dichlorodifluoromethane	BRL	7.6		ug/Kg-dry	259794	1	04/26/2018 14:42	AR
Ethylbenzene	BRL	3.8		ug/Kg-dry	259794	1	04/26/2018 14:42	AR
Freon-113	BRL	7.6		ug/Kg-dry	259794	1	04/26/2018 14:42	AR
Isopropylbenzene	BRL	3.8		ug/Kg-dry	259794	1	04/26/2018 14:42	AR
m,p-Xylene	BRL	3.8		ug/Kg-dry	259794	1	04/26/2018 14:42	AR
Methyl acetate	BRL	3.8		ug/Kg-dry	259794	1	04/26/2018 14:42	AR
Methyl tert-butyl ether	BRL	3.8		ug/Kg-dry	259794	1	04/26/2018 14:42	AR
Methylcyclohexane	BRL	3.8		ug/Kg-dry	259794	1	04/26/2018 14:42	AR
Methylene chloride	BRL	15		ug/Kg-dry	259794	1	04/26/2018 14:42	AR
o-Xylene	BRL	3.8		ug/Kg-dry	259794	1	04/26/2018 14:42	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18108-SCS-4-4
Project Name: Rheem	Collection Date: 4/18/2018 9:00:00 AM
Lab ID: 1804H65-060	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5035)			
Styrene	BRL	3.8		ug/Kg-dry	259794	1	04/26/2018 14:42	AR
Tetrachloroethene	BRL	3.8		ug/Kg-dry	259794	1	04/26/2018 14:42	AR
Toluene	BRL	3.8		ug/Kg-dry	259794	1	04/26/2018 14:42	AR
trans-1,2-Dichloroethene	BRL	3.8		ug/Kg-dry	259794	1	04/26/2018 14:42	AR
trans-1,3-Dichloropropene	BRL	3.8		ug/Kg-dry	259794	1	04/26/2018 14:42	AR
Trichloroethene	BRL	3.8		ug/Kg-dry	259794	1	04/26/2018 14:42	AR
Trichlorofluoromethane	BRL	3.8		ug/Kg-dry	259794	1	04/26/2018 14:42	AR
Vinyl chloride	BRL	7.6		ug/Kg-dry	259794	1	04/26/2018 14:42	AR
Surr: 4-Bromofluorobenzene	94.3	65-133		%REC	259794	1	04/26/2018 14:42	AR
Surr: Dibromofluoromethane	121	75.8-119	S	%REC	259794	1	04/26/2018 14:42	AR
Surr: Toluene-d8	101	78.3-120		%REC	259794	1	04/26/2018 14:42	AR
PERCENT MOISTURE D2216								
Percent Moisture	20.6	0		wt%	R368387	1	04/20/2018 17:00	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18108-SCS-4-8
Project Name: Rheem	Collection Date: 4/18/2018 9:10:00 AM
Lab ID: 1804H65-061	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 15:08	AR
1,1,2,2-Tetrachloroethane	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 15:08	AR
1,1,2-Trichloroethane	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 15:08	AR
1,1-Dichloroethane	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 15:08	AR
1,1-Dichloroethene	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 15:08	AR
1,2,4-Trichlorobenzene	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 15:08	AR
1,2-Dibromo-3-chloropropane	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 15:08	AR
1,2-Dibromoethane	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 15:08	AR
1,2-Dichlorobenzene	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 15:08	AR
1,2-Dichloroethane	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 15:08	AR
1,2-Dichloropropane	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 15:08	AR
1,3-Dichlorobenzene	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 15:08	AR
1,4-Dichlorobenzene	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 15:08	AR
2-Butanone	BRL	37		ug/Kg-dry	259794	1	04/26/2018 15:08	AR
2-Hexanone	BRL	7.4		ug/Kg-dry	259794	1	04/26/2018 15:08	AR
4-Methyl-2-pentanone	BRL	7.4		ug/Kg-dry	259794	1	04/26/2018 15:08	AR
Acetone	BRL	74		ug/Kg-dry	259794	1	04/26/2018 15:08	AR
Benzene	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 15:08	AR
Bromodichloromethane	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 15:08	AR
Bromoform	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 15:08	AR
Bromomethane	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 15:08	AR
Carbon disulfide	BRL	7.4		ug/Kg-dry	259794	1	04/26/2018 15:08	AR
Carbon tetrachloride	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 15:08	AR
Chlorobenzene	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 15:08	AR
Chloroethane	BRL	7.4		ug/Kg-dry	259794	1	04/26/2018 15:08	AR
Chloroform	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 15:08	AR
Chloromethane	BRL	7.4		ug/Kg-dry	259794	1	04/26/2018 15:08	AR
cis-1,2-Dichloroethene	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 15:08	AR
cis-1,3-Dichloropropene	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 15:08	AR
Cyclohexane	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 15:08	AR
Dibromochloromethane	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 15:08	AR
Dichlorodifluoromethane	BRL	7.4		ug/Kg-dry	259794	1	04/26/2018 15:08	AR
Ethylbenzene	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 15:08	AR
Freon-113	BRL	7.4		ug/Kg-dry	259794	1	04/26/2018 15:08	AR
Isopropylbenzene	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 15:08	AR
m,p-Xylene	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 15:08	AR
Methyl acetate	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 15:08	AR
Methyl tert-butyl ether	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 15:08	AR
Methylcyclohexane	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 15:08	AR
Methylene chloride	BRL	15		ug/Kg-dry	259794	1	04/26/2018 15:08	AR
o-Xylene	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 15:08	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18108-SCS-4-8
Project Name: Rheem	Collection Date: 4/18/2018 9:10:00 AM
Lab ID: 1804H65-061	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5035)			
Styrene	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 15:08	AR
Tetrachloroethene	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 15:08	AR
Toluene	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 15:08	AR
trans-1,2-Dichloroethene	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 15:08	AR
trans-1,3-Dichloropropene	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 15:08	AR
Trichloroethene	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 15:08	AR
Trichlorofluoromethane	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 15:08	AR
Vinyl chloride	BRL	7.4		ug/Kg-dry	259794	1	04/26/2018 15:08	AR
Surr: 4-Bromofluorobenzene	91.5	65-133		%REC	259794	1	04/26/2018 15:08	AR
Surr: Dibromofluoromethane	128	75.8-119	S	%REC	259794	1	04/26/2018 15:08	AR
Surr: Toluene-d8	101	78.3-120		%REC	259794	1	04/26/2018 15:08	AR
PERCENT MOISTURE D2216								
Percent Moisture	20.3	0		wt%	R368387	1	04/20/2018 17:00	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18108-SCS-4-13
Project Name: Rheem	Collection Date: 4/18/2018 9:15:00 AM
Lab ID: 1804H65-062	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	3.2		ug/Kg-dry	259794	1	04/25/2018 21:35	AR
1,1,2,2-Tetrachloroethane	BRL	3.2		ug/Kg-dry	259794	1	04/25/2018 21:35	AR
1,1,2-Trichloroethane	BRL	3.2		ug/Kg-dry	259794	1	04/25/2018 21:35	AR
1,1-Dichloroethane	BRL	3.2		ug/Kg-dry	259794	1	04/25/2018 21:35	AR
1,1-Dichloroethene	BRL	3.2		ug/Kg-dry	259794	1	04/25/2018 21:35	AR
1,2,4-Trichlorobenzene	BRL	3.2		ug/Kg-dry	259794	1	04/25/2018 21:35	AR
1,2-Dibromo-3-chloropropane	BRL	3.2		ug/Kg-dry	259794	1	04/25/2018 21:35	AR
1,2-Dibromoethane	BRL	3.2		ug/Kg-dry	259794	1	04/25/2018 21:35	AR
1,2-Dichlorobenzene	BRL	3.2		ug/Kg-dry	259794	1	04/25/2018 21:35	AR
1,2-Dichloroethane	BRL	3.2		ug/Kg-dry	259794	1	04/25/2018 21:35	AR
1,2-Dichloropropane	BRL	3.2		ug/Kg-dry	259794	1	04/25/2018 21:35	AR
1,3-Dichlorobenzene	BRL	3.2		ug/Kg-dry	259794	1	04/25/2018 21:35	AR
1,4-Dichlorobenzene	BRL	3.2		ug/Kg-dry	259794	1	04/25/2018 21:35	AR
2-Butanone	BRL	32		ug/Kg-dry	259794	1	04/25/2018 21:35	AR
2-Hexanone	BRL	6.5		ug/Kg-dry	259794	1	04/25/2018 21:35	AR
4-Methyl-2-pentanone	BRL	6.5		ug/Kg-dry	259794	1	04/25/2018 21:35	AR
Acetone	BRL	65		ug/Kg-dry	259794	1	04/25/2018 21:35	AR
Benzene	BRL	3.2		ug/Kg-dry	259794	1	04/25/2018 21:35	AR
Bromodichloromethane	BRL	3.2		ug/Kg-dry	259794	1	04/25/2018 21:35	AR
Bromoform	BRL	3.2		ug/Kg-dry	259794	1	04/25/2018 21:35	AR
Bromomethane	BRL	3.2		ug/Kg-dry	259794	1	04/25/2018 21:35	AR
Carbon disulfide	BRL	6.5		ug/Kg-dry	259794	1	04/25/2018 21:35	AR
Carbon tetrachloride	BRL	3.2		ug/Kg-dry	259794	1	04/25/2018 21:35	AR
Chlorobenzene	BRL	3.2		ug/Kg-dry	259794	1	04/25/2018 21:35	AR
Chloroethane	BRL	6.5		ug/Kg-dry	259794	1	04/25/2018 21:35	AR
Chloroform	BRL	3.2		ug/Kg-dry	259794	1	04/25/2018 21:35	AR
Chloromethane	BRL	6.5		ug/Kg-dry	259794	1	04/25/2018 21:35	AR
cis-1,2-Dichloroethene	BRL	3.2		ug/Kg-dry	259794	1	04/25/2018 21:35	AR
cis-1,3-Dichloropropene	BRL	3.2		ug/Kg-dry	259794	1	04/25/2018 21:35	AR
Cyclohexane	BRL	3.2		ug/Kg-dry	259794	1	04/25/2018 21:35	AR
Dibromochloromethane	BRL	3.2		ug/Kg-dry	259794	1	04/25/2018 21:35	AR
Dichlorodifluoromethane	BRL	6.5		ug/Kg-dry	259794	1	04/25/2018 21:35	AR
Ethylbenzene	BRL	3.2		ug/Kg-dry	259794	1	04/25/2018 21:35	AR
Freon-113	BRL	6.5		ug/Kg-dry	259794	1	04/25/2018 21:35	AR
Isopropylbenzene	BRL	3.2		ug/Kg-dry	259794	1	04/25/2018 21:35	AR
m,p-Xylene	BRL	3.2		ug/Kg-dry	259794	1	04/25/2018 21:35	AR
Methyl acetate	BRL	3.2		ug/Kg-dry	259794	1	04/25/2018 21:35	AR
Methyl tert-butyl ether	BRL	3.2		ug/Kg-dry	259794	1	04/25/2018 21:35	AR
Methylcyclohexane	BRL	3.2		ug/Kg-dry	259794	1	04/25/2018 21:35	AR
Methylene chloride	BRL	13		ug/Kg-dry	259794	1	04/25/2018 21:35	AR
o-Xylene	BRL	3.2		ug/Kg-dry	259794	1	04/25/2018 21:35	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18108-SCS-4-13
Project Name: Rheem	Collection Date: 4/18/2018 9:15:00 AM
Lab ID: 1804H65-062	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5035)			
Styrene	BRL	3.2		ug/Kg-dry	259794	1	04/25/2018 21:35	AR
Tetrachloroethene	BRL	3.2		ug/Kg-dry	259794	1	04/25/2018 21:35	AR
Toluene	BRL	3.2		ug/Kg-dry	259794	1	04/25/2018 21:35	AR
trans-1,2-Dichloroethene	BRL	3.2		ug/Kg-dry	259794	1	04/25/2018 21:35	AR
trans-1,3-Dichloropropene	BRL	3.2		ug/Kg-dry	259794	1	04/25/2018 21:35	AR
Trichloroethene	BRL	3.2		ug/Kg-dry	259794	1	04/25/2018 21:35	AR
Trichlorofluoromethane	BRL	3.2		ug/Kg-dry	259794	1	04/25/2018 21:35	AR
Vinyl chloride	BRL	6.5		ug/Kg-dry	259794	1	04/25/2018 21:35	AR
Surr: 4-Bromofluorobenzene	86.6	65-133		%REC	259794	1	04/25/2018 21:35	AR
Surr: Dibromofluoromethane	110	75.8-119		%REC	259794	1	04/25/2018 21:35	AR
Surr: Toluene-d8	109	78.3-120		%REC	259794	1	04/25/2018 21:35	AR
PERCENT MOISTURE D2216								
Percent Moisture	20.5	0		wt%	R368387	1	04/20/2018 17:00	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18108-SCS-5-0.5
Project Name: Rheem	Collection Date: 4/18/2018 9:25:00 AM
Lab ID: 1804H65-063	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	2.8		ug/Kg-dry	259794	1	04/25/2018 22:01	AR
1,1,2,2-Tetrachloroethane	BRL	2.8		ug/Kg-dry	259794	1	04/25/2018 22:01	AR
1,1,2-Trichloroethane	BRL	2.8		ug/Kg-dry	259794	1	04/25/2018 22:01	AR
1,1-Dichloroethane	BRL	2.8		ug/Kg-dry	259794	1	04/25/2018 22:01	AR
1,1-Dichloroethene	BRL	2.8		ug/Kg-dry	259794	1	04/25/2018 22:01	AR
1,2,4-Trichlorobenzene	BRL	2.8		ug/Kg-dry	259794	1	04/25/2018 22:01	AR
1,2-Dibromo-3-chloropropane	BRL	2.8		ug/Kg-dry	259794	1	04/25/2018 22:01	AR
1,2-Dibromoethane	BRL	2.8		ug/Kg-dry	259794	1	04/25/2018 22:01	AR
1,2-Dichlorobenzene	BRL	2.8		ug/Kg-dry	259794	1	04/25/2018 22:01	AR
1,2-Dichloroethane	BRL	2.8		ug/Kg-dry	259794	1	04/25/2018 22:01	AR
1,2-Dichloropropane	BRL	2.8		ug/Kg-dry	259794	1	04/25/2018 22:01	AR
1,3-Dichlorobenzene	BRL	2.8		ug/Kg-dry	259794	1	04/25/2018 22:01	AR
1,4-Dichlorobenzene	BRL	2.8		ug/Kg-dry	259794	1	04/25/2018 22:01	AR
2-Butanone	BRL	28		ug/Kg-dry	259794	1	04/25/2018 22:01	AR
2-Hexanone	BRL	5.5		ug/Kg-dry	259794	1	04/25/2018 22:01	AR
4-Methyl-2-pentanone	BRL	5.5		ug/Kg-dry	259794	1	04/25/2018 22:01	AR
Acetone	72	55		ug/Kg-dry	259794	1	04/25/2018 22:01	AR
Benzene	BRL	2.8		ug/Kg-dry	259794	1	04/25/2018 22:01	AR
Bromodichloromethane	BRL	2.8		ug/Kg-dry	259794	1	04/25/2018 22:01	AR
Bromoform	BRL	2.8		ug/Kg-dry	259794	1	04/25/2018 22:01	AR
Bromomethane	BRL	2.8		ug/Kg-dry	259794	1	04/25/2018 22:01	AR
Carbon disulfide	BRL	5.5		ug/Kg-dry	259794	1	04/25/2018 22:01	AR
Carbon tetrachloride	BRL	2.8		ug/Kg-dry	259794	1	04/25/2018 22:01	AR
Chlorobenzene	BRL	2.8		ug/Kg-dry	259794	1	04/25/2018 22:01	AR
Chloroethane	BRL	5.5		ug/Kg-dry	259794	1	04/25/2018 22:01	AR
Chloroform	BRL	2.8		ug/Kg-dry	259794	1	04/25/2018 22:01	AR
Chloromethane	BRL	5.5		ug/Kg-dry	259794	1	04/25/2018 22:01	AR
cis-1,2-Dichloroethene	BRL	2.8		ug/Kg-dry	259794	1	04/25/2018 22:01	AR
cis-1,3-Dichloropropene	BRL	2.8		ug/Kg-dry	259794	1	04/25/2018 22:01	AR
Cyclohexane	BRL	2.8		ug/Kg-dry	259794	1	04/25/2018 22:01	AR
Dibromochloromethane	BRL	2.8		ug/Kg-dry	259794	1	04/25/2018 22:01	AR
Dichlorodifluoromethane	BRL	5.5		ug/Kg-dry	259794	1	04/25/2018 22:01	AR
Ethylbenzene	BRL	2.8		ug/Kg-dry	259794	1	04/25/2018 22:01	AR
Freon-113	BRL	5.5		ug/Kg-dry	259794	1	04/25/2018 22:01	AR
Isopropylbenzene	BRL	2.8		ug/Kg-dry	259794	1	04/25/2018 22:01	AR
m,p-Xylene	BRL	2.8		ug/Kg-dry	259794	1	04/25/2018 22:01	AR
Methyl acetate	BRL	2.8		ug/Kg-dry	259794	1	04/25/2018 22:01	AR
Methyl tert-butyl ether	BRL	2.8		ug/Kg-dry	259794	1	04/25/2018 22:01	AR
Methylcyclohexane	BRL	2.8		ug/Kg-dry	259794	1	04/25/2018 22:01	AR
Methylene chloride	BRL	11		ug/Kg-dry	259794	1	04/25/2018 22:01	AR
o-Xylene	BRL	2.8		ug/Kg-dry	259794	1	04/25/2018 22:01	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18108-SCS-5-0.5
Project Name: Rheem	Collection Date: 4/18/2018 9:25:00 AM
Lab ID: 1804H65-063	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
Styrene	BRL	2.8		ug/Kg-dry	259794	1	04/25/2018 22:01	AR
Tetrachloroethene	BRL	2.8		ug/Kg-dry	259794	1	04/25/2018 22:01	AR
Toluene	BRL	2.8		ug/Kg-dry	259794	1	04/25/2018 22:01	AR
trans-1,2-Dichloroethene	BRL	2.8		ug/Kg-dry	259794	1	04/25/2018 22:01	AR
trans-1,3-Dichloropropene	BRL	2.8		ug/Kg-dry	259794	1	04/25/2018 22:01	AR
Trichloroethene	5.0	2.8		ug/Kg-dry	259794	1	04/25/2018 22:01	AR
Trichlorofluoromethane	BRL	2.8		ug/Kg-dry	259794	1	04/25/2018 22:01	AR
Vinyl chloride	BRL	5.5		ug/Kg-dry	259794	1	04/25/2018 22:01	AR
Surr: 4-Bromofluorobenzene	88.5	65-133		%REC	259794	1	04/25/2018 22:01	AR
Surr: Dibromofluoromethane	115	75.8-119		%REC	259794	1	04/25/2018 22:01	AR
Surr: Toluene-d8	102	78.3-120		%REC	259794	1	04/25/2018 22:01	AR
PERCENT MOISTURE D2216								
Percent Moisture	3.88	0		wt%	R368387	1	04/20/2018 17:00	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18108-SCS-5-1.5
Project Name: Rheem	Collection Date: 4/18/2018 9:30:00 AM
Lab ID: 1804H65-064	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	2.9		ug/Kg-dry	259794	1	04/25/2018 22:27	AR
1,1,2,2-Tetrachloroethane	BRL	2.9		ug/Kg-dry	259794	1	04/25/2018 22:27	AR
1,1,2-Trichloroethane	BRL	2.9		ug/Kg-dry	259794	1	04/25/2018 22:27	AR
1,1-Dichloroethane	BRL	2.9		ug/Kg-dry	259794	1	04/25/2018 22:27	AR
1,1-Dichloroethene	BRL	2.9		ug/Kg-dry	259794	1	04/25/2018 22:27	AR
1,2,4-Trichlorobenzene	BRL	2.9		ug/Kg-dry	259794	1	04/25/2018 22:27	AR
1,2-Dibromo-3-chloropropane	BRL	2.9		ug/Kg-dry	259794	1	04/25/2018 22:27	AR
1,2-Dibromoethane	BRL	2.9		ug/Kg-dry	259794	1	04/25/2018 22:27	AR
1,2-Dichlorobenzene	BRL	2.9		ug/Kg-dry	259794	1	04/25/2018 22:27	AR
1,2-Dichloroethane	BRL	2.9		ug/Kg-dry	259794	1	04/25/2018 22:27	AR
1,2-Dichloropropane	BRL	2.9		ug/Kg-dry	259794	1	04/25/2018 22:27	AR
1,3-Dichlorobenzene	BRL	2.9		ug/Kg-dry	259794	1	04/25/2018 22:27	AR
1,4-Dichlorobenzene	BRL	2.9		ug/Kg-dry	259794	1	04/25/2018 22:27	AR
2-Butanone	BRL	29		ug/Kg-dry	259794	1	04/25/2018 22:27	AR
2-Hexanone	BRL	5.9		ug/Kg-dry	259794	1	04/25/2018 22:27	AR
4-Methyl-2-pentanone	BRL	5.9		ug/Kg-dry	259794	1	04/25/2018 22:27	AR
Acetone	110	59		ug/Kg-dry	259794	1	04/25/2018 22:27	AR
Benzene	BRL	2.9		ug/Kg-dry	259794	1	04/25/2018 22:27	AR
Bromodichloromethane	BRL	2.9		ug/Kg-dry	259794	1	04/25/2018 22:27	AR
Bromoform	BRL	2.9		ug/Kg-dry	259794	1	04/25/2018 22:27	AR
Bromomethane	BRL	2.9		ug/Kg-dry	259794	1	04/25/2018 22:27	AR
Carbon disulfide	BRL	5.9		ug/Kg-dry	259794	1	04/25/2018 22:27	AR
Carbon tetrachloride	BRL	2.9		ug/Kg-dry	259794	1	04/25/2018 22:27	AR
Chlorobenzene	BRL	2.9		ug/Kg-dry	259794	1	04/25/2018 22:27	AR
Chloroethane	BRL	5.9		ug/Kg-dry	259794	1	04/25/2018 22:27	AR
Chloroform	BRL	2.9		ug/Kg-dry	259794	1	04/25/2018 22:27	AR
Chloromethane	BRL	5.9		ug/Kg-dry	259794	1	04/25/2018 22:27	AR
cis-1,2-Dichloroethene	BRL	2.9		ug/Kg-dry	259794	1	04/25/2018 22:27	AR
cis-1,3-Dichloropropene	BRL	2.9		ug/Kg-dry	259794	1	04/25/2018 22:27	AR
Cyclohexane	BRL	2.9		ug/Kg-dry	259794	1	04/25/2018 22:27	AR
Dibromochloromethane	BRL	2.9		ug/Kg-dry	259794	1	04/25/2018 22:27	AR
Dichlorodifluoromethane	BRL	5.9		ug/Kg-dry	259794	1	04/25/2018 22:27	AR
Ethylbenzene	BRL	2.9		ug/Kg-dry	259794	1	04/25/2018 22:27	AR
Freon-113	BRL	5.9		ug/Kg-dry	259794	1	04/25/2018 22:27	AR
Isopropylbenzene	BRL	2.9		ug/Kg-dry	259794	1	04/25/2018 22:27	AR
m,p-Xylene	BRL	2.9		ug/Kg-dry	259794	1	04/25/2018 22:27	AR
Methyl acetate	BRL	2.9		ug/Kg-dry	259794	1	04/25/2018 22:27	AR
Methyl tert-butyl ether	BRL	2.9		ug/Kg-dry	259794	1	04/25/2018 22:27	AR
Methylcyclohexane	BRL	2.9		ug/Kg-dry	259794	1	04/25/2018 22:27	AR
Methylene chloride	BRL	12		ug/Kg-dry	259794	1	04/25/2018 22:27	AR
o-Xylene	BRL	2.9		ug/Kg-dry	259794	1	04/25/2018 22:27	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18108-SCS-5-1.5
Project Name: Rheem	Collection Date: 4/18/2018 9:30:00 AM
Lab ID: 1804H65-064	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
Styrene	BRL	2.9		ug/Kg-dry	259794	1	04/25/2018 22:27	AR
Tetrachloroethene	BRL	2.9		ug/Kg-dry	259794	1	04/25/2018 22:27	AR
Toluene	BRL	2.9		ug/Kg-dry	259794	1	04/25/2018 22:27	AR
trans-1,2-Dichloroethene	BRL	2.9		ug/Kg-dry	259794	1	04/25/2018 22:27	AR
trans-1,3-Dichloropropene	BRL	2.9		ug/Kg-dry	259794	1	04/25/2018 22:27	AR
Trichloroethene	34	2.9		ug/Kg-dry	259794	1	04/25/2018 22:27	AR
Trichlorofluoromethane	BRL	2.9		ug/Kg-dry	259794	1	04/25/2018 22:27	AR
Vinyl chloride	BRL	5.9		ug/Kg-dry	259794	1	04/25/2018 22:27	AR
Surr: 4-Bromofluorobenzene	81.4	65-133		%REC	259794	1	04/25/2018 22:27	AR
Surr: Dibromofluoromethane	106	75.8-119		%REC	259794	1	04/25/2018 22:27	AR
Surr: Toluene-d8	106	78.3-120		%REC	259794	1	04/25/2018 22:27	AR
PERCENT MOISTURE D2216								
Percent Moisture	16.6	0		wt%	R368387	1	04/20/2018 17:00	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18108-SCS-5-4
Project Name: Rheem	Collection Date: 4/18/2018 9:35:00 AM
Lab ID: 1804H65-065	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	3.2		ug/Kg-dry	259794	1	04/25/2018 22:53	AR
1,1,2,2-Tetrachloroethane	BRL	3.2		ug/Kg-dry	259794	1	04/25/2018 22:53	AR
1,1,2-Trichloroethane	BRL	3.2		ug/Kg-dry	259794	1	04/25/2018 22:53	AR
1,1-Dichloroethane	BRL	3.2		ug/Kg-dry	259794	1	04/25/2018 22:53	AR
1,1-Dichloroethene	BRL	3.2		ug/Kg-dry	259794	1	04/25/2018 22:53	AR
1,2,4-Trichlorobenzene	BRL	3.2		ug/Kg-dry	259794	1	04/25/2018 22:53	AR
1,2-Dibromo-3-chloropropane	BRL	3.2		ug/Kg-dry	259794	1	04/25/2018 22:53	AR
1,2-Dibromoethane	BRL	3.2		ug/Kg-dry	259794	1	04/25/2018 22:53	AR
1,2-Dichlorobenzene	BRL	3.2		ug/Kg-dry	259794	1	04/25/2018 22:53	AR
1,2-Dichloroethane	BRL	3.2		ug/Kg-dry	259794	1	04/25/2018 22:53	AR
1,2-Dichloropropane	BRL	3.2		ug/Kg-dry	259794	1	04/25/2018 22:53	AR
1,3-Dichlorobenzene	BRL	3.2		ug/Kg-dry	259794	1	04/25/2018 22:53	AR
1,4-Dichlorobenzene	BRL	3.2		ug/Kg-dry	259794	1	04/25/2018 22:53	AR
2-Butanone	BRL	32		ug/Kg-dry	259794	1	04/25/2018 22:53	AR
2-Hexanone	BRL	6.5		ug/Kg-dry	259794	1	04/25/2018 22:53	AR
4-Methyl-2-pentanone	BRL	6.5		ug/Kg-dry	259794	1	04/25/2018 22:53	AR
Acetone	BRL	65		ug/Kg-dry	259794	1	04/25/2018 22:53	AR
Benzene	BRL	3.2		ug/Kg-dry	259794	1	04/25/2018 22:53	AR
Bromodichloromethane	BRL	3.2		ug/Kg-dry	259794	1	04/25/2018 22:53	AR
Bromoform	BRL	3.2		ug/Kg-dry	259794	1	04/25/2018 22:53	AR
Bromomethane	BRL	3.2		ug/Kg-dry	259794	1	04/25/2018 22:53	AR
Carbon disulfide	BRL	6.5		ug/Kg-dry	259794	1	04/25/2018 22:53	AR
Carbon tetrachloride	BRL	3.2		ug/Kg-dry	259794	1	04/25/2018 22:53	AR
Chlorobenzene	BRL	3.2		ug/Kg-dry	259794	1	04/25/2018 22:53	AR
Chloroethane	BRL	6.5		ug/Kg-dry	259794	1	04/25/2018 22:53	AR
Chloroform	BRL	3.2		ug/Kg-dry	259794	1	04/25/2018 22:53	AR
Chloromethane	BRL	6.5		ug/Kg-dry	259794	1	04/25/2018 22:53	AR
cis-1,2-Dichloroethene	BRL	3.2		ug/Kg-dry	259794	1	04/25/2018 22:53	AR
cis-1,3-Dichloropropene	BRL	3.2		ug/Kg-dry	259794	1	04/25/2018 22:53	AR
Cyclohexane	BRL	3.2		ug/Kg-dry	259794	1	04/25/2018 22:53	AR
Dibromochloromethane	BRL	3.2		ug/Kg-dry	259794	1	04/25/2018 22:53	AR
Dichlorodifluoromethane	BRL	6.5		ug/Kg-dry	259794	1	04/25/2018 22:53	AR
Ethylbenzene	BRL	3.2		ug/Kg-dry	259794	1	04/25/2018 22:53	AR
Freon-113	BRL	6.5		ug/Kg-dry	259794	1	04/25/2018 22:53	AR
Isopropylbenzene	BRL	3.2		ug/Kg-dry	259794	1	04/25/2018 22:53	AR
m,p-Xylene	BRL	3.2		ug/Kg-dry	259794	1	04/25/2018 22:53	AR
Methyl acetate	BRL	3.2		ug/Kg-dry	259794	1	04/25/2018 22:53	AR
Methyl tert-butyl ether	BRL	3.2		ug/Kg-dry	259794	1	04/25/2018 22:53	AR
Methylcyclohexane	BRL	3.2		ug/Kg-dry	259794	1	04/25/2018 22:53	AR
Methylene chloride	BRL	13		ug/Kg-dry	259794	1	04/25/2018 22:53	AR
o-Xylene	BRL	3.2		ug/Kg-dry	259794	1	04/25/2018 22:53	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18108-SCS-5-4
Project Name: Rheem	Collection Date: 4/18/2018 9:35:00 AM
Lab ID: 1804H65-065	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5035)			
Styrene	BRL	3.2		ug/Kg-dry	259794	1	04/25/2018 22:53	AR
Tetrachloroethene	BRL	3.2		ug/Kg-dry	259794	1	04/25/2018 22:53	AR
Toluene	BRL	3.2		ug/Kg-dry	259794	1	04/25/2018 22:53	AR
trans-1,2-Dichloroethene	BRL	3.2		ug/Kg-dry	259794	1	04/25/2018 22:53	AR
trans-1,3-Dichloropropene	BRL	3.2		ug/Kg-dry	259794	1	04/25/2018 22:53	AR
Trichloroethene	7.5	3.2		ug/Kg-dry	259794	1	04/25/2018 22:53	AR
Trichlorofluoromethane	BRL	3.2		ug/Kg-dry	259794	1	04/25/2018 22:53	AR
Vinyl chloride	BRL	6.5		ug/Kg-dry	259794	1	04/25/2018 22:53	AR
Surr: 4-Bromofluorobenzene	91.4	65-133		%REC	259794	1	04/25/2018 22:53	AR
Surr: Dibromofluoromethane	125	75.8-119	S	%REC	259794	1	04/25/2018 22:53	AR
Surr: Toluene-d8	103	78.3-120		%REC	259794	1	04/25/2018 22:53	AR
PERCENT MOISTURE D2216								
Percent Moisture	15.1	0		wt%	R368387	1	04/20/2018 17:00	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18108-SCS-5-8
Project Name: Rheem	Collection Date: 4/18/2018 9:40:00 AM
Lab ID: 1804H65-066	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	3.7		ug/Kg-dry	259794	1	04/25/2018 23:19	AR
1,1,2,2-Tetrachloroethane	BRL	3.7		ug/Kg-dry	259794	1	04/25/2018 23:19	AR
1,1,2-Trichloroethane	BRL	3.7		ug/Kg-dry	259794	1	04/25/2018 23:19	AR
1,1-Dichloroethane	BRL	3.7		ug/Kg-dry	259794	1	04/25/2018 23:19	AR
1,1-Dichloroethene	BRL	3.7		ug/Kg-dry	259794	1	04/25/2018 23:19	AR
1,2,4-Trichlorobenzene	BRL	3.7		ug/Kg-dry	259794	1	04/25/2018 23:19	AR
1,2-Dibromo-3-chloropropane	BRL	3.7		ug/Kg-dry	259794	1	04/25/2018 23:19	AR
1,2-Dibromoethane	BRL	3.7		ug/Kg-dry	259794	1	04/25/2018 23:19	AR
1,2-Dichlorobenzene	BRL	3.7		ug/Kg-dry	259794	1	04/25/2018 23:19	AR
1,2-Dichloroethane	BRL	3.7		ug/Kg-dry	259794	1	04/25/2018 23:19	AR
1,2-Dichloropropane	BRL	3.7		ug/Kg-dry	259794	1	04/25/2018 23:19	AR
1,3-Dichlorobenzene	BRL	3.7		ug/Kg-dry	259794	1	04/25/2018 23:19	AR
1,4-Dichlorobenzene	BRL	3.7		ug/Kg-dry	259794	1	04/25/2018 23:19	AR
2-Butanone	BRL	37		ug/Kg-dry	259794	1	04/25/2018 23:19	AR
2-Hexanone	BRL	7.5		ug/Kg-dry	259794	1	04/25/2018 23:19	AR
4-Methyl-2-pentanone	BRL	7.5		ug/Kg-dry	259794	1	04/25/2018 23:19	AR
Acetone	BRL	75		ug/Kg-dry	259794	1	04/25/2018 23:19	AR
Benzene	BRL	3.7		ug/Kg-dry	259794	1	04/25/2018 23:19	AR
Bromodichloromethane	BRL	3.7		ug/Kg-dry	259794	1	04/25/2018 23:19	AR
Bromoform	BRL	3.7		ug/Kg-dry	259794	1	04/25/2018 23:19	AR
Bromomethane	BRL	3.7		ug/Kg-dry	259794	1	04/25/2018 23:19	AR
Carbon disulfide	BRL	7.5		ug/Kg-dry	259794	1	04/25/2018 23:19	AR
Carbon tetrachloride	BRL	3.7		ug/Kg-dry	259794	1	04/25/2018 23:19	AR
Chlorobenzene	BRL	3.7		ug/Kg-dry	259794	1	04/25/2018 23:19	AR
Chloroethane	BRL	7.5		ug/Kg-dry	259794	1	04/25/2018 23:19	AR
Chloroform	BRL	3.7		ug/Kg-dry	259794	1	04/25/2018 23:19	AR
Chloromethane	BRL	7.5		ug/Kg-dry	259794	1	04/25/2018 23:19	AR
cis-1,2-Dichloroethene	BRL	3.7		ug/Kg-dry	259794	1	04/25/2018 23:19	AR
cis-1,3-Dichloropropene	BRL	3.7		ug/Kg-dry	259794	1	04/25/2018 23:19	AR
Cyclohexane	BRL	3.7		ug/Kg-dry	259794	1	04/25/2018 23:19	AR
Dibromochloromethane	BRL	3.7		ug/Kg-dry	259794	1	04/25/2018 23:19	AR
Dichlorodifluoromethane	BRL	7.5		ug/Kg-dry	259794	1	04/25/2018 23:19	AR
Ethylbenzene	BRL	3.7		ug/Kg-dry	259794	1	04/25/2018 23:19	AR
Freon-113	BRL	7.5		ug/Kg-dry	259794	1	04/25/2018 23:19	AR
Isopropylbenzene	BRL	3.7		ug/Kg-dry	259794	1	04/25/2018 23:19	AR
m,p-Xylene	BRL	3.7		ug/Kg-dry	259794	1	04/25/2018 23:19	AR
Methyl acetate	BRL	3.7		ug/Kg-dry	259794	1	04/25/2018 23:19	AR
Methyl tert-butyl ether	BRL	3.7		ug/Kg-dry	259794	1	04/25/2018 23:19	AR
Methylcyclohexane	BRL	3.7		ug/Kg-dry	259794	1	04/25/2018 23:19	AR
Methylene chloride	BRL	15		ug/Kg-dry	259794	1	04/25/2018 23:19	AR
o-Xylene	BRL	3.7		ug/Kg-dry	259794	1	04/25/2018 23:19	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18108-SCS-5-8
Project Name: Rheem	Collection Date: 4/18/2018 9:40:00 AM
Lab ID: 1804H65-066	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
Styrene	BRL	3.7		ug/Kg-dry	259794	1	04/25/2018 23:19	AR
Tetrachloroethene	BRL	3.7		ug/Kg-dry	259794	1	04/25/2018 23:19	AR
Toluene	BRL	3.7		ug/Kg-dry	259794	1	04/25/2018 23:19	AR
trans-1,2-Dichloroethene	BRL	3.7		ug/Kg-dry	259794	1	04/25/2018 23:19	AR
trans-1,3-Dichloropropene	BRL	3.7		ug/Kg-dry	259794	1	04/25/2018 23:19	AR
Trichloroethene	BRL	3.7		ug/Kg-dry	259794	1	04/25/2018 23:19	AR
Trichlorofluoromethane	BRL	3.7		ug/Kg-dry	259794	1	04/25/2018 23:19	AR
Vinyl chloride	BRL	7.5		ug/Kg-dry	259794	1	04/25/2018 23:19	AR
Surr: 4-Bromofluorobenzene	90.5	65-133		%REC	259794	1	04/25/2018 23:19	AR
Surr: Dibromofluoromethane	115	75.8-119		%REC	259794	1	04/25/2018 23:19	AR
Surr: Toluene-d8	99.8	78.3-120		%REC	259794	1	04/25/2018 23:19	AR
PERCENT MOISTURE D2216								
Percent Moisture	21.3	0		wt%	R368387	1	04/20/2018 17:00	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18108-SCS-5-13
Project Name: Rheem	Collection Date: 4/18/2018 9:45:00 AM
Lab ID: 1804H65-067	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	3.7		ug/Kg-dry	259794	1	04/25/2018 23:46	AR
1,1,2,2-Tetrachloroethane	BRL	3.7		ug/Kg-dry	259794	1	04/25/2018 23:46	AR
1,1,2-Trichloroethane	BRL	3.7		ug/Kg-dry	259794	1	04/25/2018 23:46	AR
1,1-Dichloroethane	BRL	3.7		ug/Kg-dry	259794	1	04/25/2018 23:46	AR
1,1-Dichloroethene	BRL	3.7		ug/Kg-dry	259794	1	04/25/2018 23:46	AR
1,2,4-Trichlorobenzene	BRL	3.7		ug/Kg-dry	259794	1	04/25/2018 23:46	AR
1,2-Dibromo-3-chloropropane	BRL	3.7		ug/Kg-dry	259794	1	04/25/2018 23:46	AR
1,2-Dibromoethane	BRL	3.7		ug/Kg-dry	259794	1	04/25/2018 23:46	AR
1,2-Dichlorobenzene	BRL	3.7		ug/Kg-dry	259794	1	04/25/2018 23:46	AR
1,2-Dichloroethane	BRL	3.7		ug/Kg-dry	259794	1	04/25/2018 23:46	AR
1,2-Dichloropropane	BRL	3.7		ug/Kg-dry	259794	1	04/25/2018 23:46	AR
1,3-Dichlorobenzene	BRL	3.7		ug/Kg-dry	259794	1	04/25/2018 23:46	AR
1,4-Dichlorobenzene	BRL	3.7		ug/Kg-dry	259794	1	04/25/2018 23:46	AR
2-Butanone	BRL	37		ug/Kg-dry	259794	1	04/25/2018 23:46	AR
2-Hexanone	BRL	7.4		ug/Kg-dry	259794	1	04/25/2018 23:46	AR
4-Methyl-2-pentanone	BRL	7.4		ug/Kg-dry	259794	1	04/25/2018 23:46	AR
Acetone	BRL	74		ug/Kg-dry	259794	1	04/25/2018 23:46	AR
Benzene	BRL	3.7		ug/Kg-dry	259794	1	04/25/2018 23:46	AR
Bromodichloromethane	BRL	3.7		ug/Kg-dry	259794	1	04/25/2018 23:46	AR
Bromoform	BRL	3.7		ug/Kg-dry	259794	1	04/25/2018 23:46	AR
Bromomethane	BRL	3.7		ug/Kg-dry	259794	1	04/25/2018 23:46	AR
Carbon disulfide	BRL	7.4		ug/Kg-dry	259794	1	04/25/2018 23:46	AR
Carbon tetrachloride	BRL	3.7		ug/Kg-dry	259794	1	04/25/2018 23:46	AR
Chlorobenzene	BRL	3.7		ug/Kg-dry	259794	1	04/25/2018 23:46	AR
Chloroethane	BRL	7.4		ug/Kg-dry	259794	1	04/25/2018 23:46	AR
Chloroform	BRL	3.7		ug/Kg-dry	259794	1	04/25/2018 23:46	AR
Chloromethane	BRL	7.4		ug/Kg-dry	259794	1	04/25/2018 23:46	AR
cis-1,2-Dichloroethene	BRL	3.7		ug/Kg-dry	259794	1	04/25/2018 23:46	AR
cis-1,3-Dichloropropene	BRL	3.7		ug/Kg-dry	259794	1	04/25/2018 23:46	AR
Cyclohexane	BRL	3.7		ug/Kg-dry	259794	1	04/25/2018 23:46	AR
Dibromochloromethane	BRL	3.7		ug/Kg-dry	259794	1	04/25/2018 23:46	AR
Dichlorodifluoromethane	BRL	7.4		ug/Kg-dry	259794	1	04/25/2018 23:46	AR
Ethylbenzene	BRL	3.7		ug/Kg-dry	259794	1	04/25/2018 23:46	AR
Freon-113	BRL	7.4		ug/Kg-dry	259794	1	04/25/2018 23:46	AR
Isopropylbenzene	BRL	3.7		ug/Kg-dry	259794	1	04/25/2018 23:46	AR
m,p-Xylene	BRL	3.7		ug/Kg-dry	259794	1	04/25/2018 23:46	AR
Methyl acetate	BRL	3.7		ug/Kg-dry	259794	1	04/25/2018 23:46	AR
Methyl tert-butyl ether	BRL	3.7		ug/Kg-dry	259794	1	04/25/2018 23:46	AR
Methylcyclohexane	BRL	3.7		ug/Kg-dry	259794	1	04/25/2018 23:46	AR
Methylene chloride	BRL	15		ug/Kg-dry	259794	1	04/25/2018 23:46	AR
o-Xylene	BRL	3.7		ug/Kg-dry	259794	1	04/25/2018 23:46	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18108-SCS-5-13
Project Name: Rheem	Collection Date: 4/18/2018 9:45:00 AM
Lab ID: 1804H65-067	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5035)			
Styrene	BRL	3.7		ug/Kg-dry	259794	1	04/25/2018 23:46	AR
Tetrachloroethene	BRL	3.7		ug/Kg-dry	259794	1	04/25/2018 23:46	AR
Toluene	BRL	3.7		ug/Kg-dry	259794	1	04/25/2018 23:46	AR
trans-1,2-Dichloroethene	BRL	3.7		ug/Kg-dry	259794	1	04/25/2018 23:46	AR
trans-1,3-Dichloropropene	BRL	3.7		ug/Kg-dry	259794	1	04/25/2018 23:46	AR
Trichloroethene	BRL	3.7		ug/Kg-dry	259794	1	04/25/2018 23:46	AR
Trichlorofluoromethane	BRL	3.7		ug/Kg-dry	259794	1	04/25/2018 23:46	AR
Vinyl chloride	BRL	7.4		ug/Kg-dry	259794	1	04/25/2018 23:46	AR
Surr: 4-Bromofluorobenzene	95	65-133		%REC	259794	1	04/25/2018 23:46	AR
Surr: Dibromofluoromethane	123	75.8-119	S	%REC	259794	1	04/25/2018 23:46	AR
Surr: Toluene-d8	94.7	78.3-120		%REC	259794	1	04/25/2018 23:46	AR
PERCENT MOISTURE D2216								
Percent Moisture	22.9	0		wt%	R368387	1	04/20/2018 17:00	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18108-SCS-2-0.5
Project Name: Rheem	Collection Date: 4/18/2018 10:10:00 AM
Lab ID: 1804H65-068	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	3.5		ug/Kg-dry	259794	1	04/26/2018 00:12	AR
1,1,2,2-Tetrachloroethane	BRL	3.5		ug/Kg-dry	259794	1	04/26/2018 00:12	AR
1,1,2-Trichloroethane	BRL	3.5		ug/Kg-dry	259794	1	04/26/2018 00:12	AR
1,1-Dichloroethane	BRL	3.5		ug/Kg-dry	259794	1	04/26/2018 00:12	AR
1,1-Dichloroethene	BRL	3.5		ug/Kg-dry	259794	1	04/26/2018 00:12	AR
1,2,4-Trichlorobenzene	BRL	3.5		ug/Kg-dry	259794	1	04/26/2018 00:12	AR
1,2-Dibromo-3-chloropropane	BRL	3.5		ug/Kg-dry	259794	1	04/26/2018 00:12	AR
1,2-Dibromoethane	BRL	3.5		ug/Kg-dry	259794	1	04/26/2018 00:12	AR
1,2-Dichlorobenzene	BRL	3.5		ug/Kg-dry	259794	1	04/26/2018 00:12	AR
1,2-Dichloroethane	BRL	3.5		ug/Kg-dry	259794	1	04/26/2018 00:12	AR
1,2-Dichloropropane	BRL	3.5		ug/Kg-dry	259794	1	04/26/2018 00:12	AR
1,3-Dichlorobenzene	BRL	3.5		ug/Kg-dry	259794	1	04/26/2018 00:12	AR
1,4-Dichlorobenzene	BRL	3.5		ug/Kg-dry	259794	1	04/26/2018 00:12	AR
2-Butanone	BRL	35		ug/Kg-dry	259794	1	04/26/2018 00:12	AR
2-Hexanone	BRL	7.1		ug/Kg-dry	259794	1	04/26/2018 00:12	AR
4-Methyl-2-pentanone	BRL	7.1		ug/Kg-dry	259794	1	04/26/2018 00:12	AR
Acetone	110	71		ug/Kg-dry	259794	1	04/26/2018 00:12	AR
Benzene	BRL	3.5		ug/Kg-dry	259794	1	04/26/2018 00:12	AR
Bromodichloromethane	BRL	3.5		ug/Kg-dry	259794	1	04/26/2018 00:12	AR
Bromoform	BRL	3.5		ug/Kg-dry	259794	1	04/26/2018 00:12	AR
Bromomethane	BRL	3.5		ug/Kg-dry	259794	1	04/26/2018 00:12	AR
Carbon disulfide	BRL	7.1		ug/Kg-dry	259794	1	04/26/2018 00:12	AR
Carbon tetrachloride	BRL	3.5		ug/Kg-dry	259794	1	04/26/2018 00:12	AR
Chlorobenzene	BRL	3.5		ug/Kg-dry	259794	1	04/26/2018 00:12	AR
Chloroethane	BRL	7.1		ug/Kg-dry	259794	1	04/26/2018 00:12	AR
Chloroform	BRL	3.5		ug/Kg-dry	259794	1	04/26/2018 00:12	AR
Chloromethane	BRL	7.1		ug/Kg-dry	259794	1	04/26/2018 00:12	AR
cis-1,2-Dichloroethene	BRL	3.5		ug/Kg-dry	259794	1	04/26/2018 00:12	AR
cis-1,3-Dichloropropene	BRL	3.5		ug/Kg-dry	259794	1	04/26/2018 00:12	AR
Cyclohexane	BRL	3.5		ug/Kg-dry	259794	1	04/26/2018 00:12	AR
Dibromochloromethane	BRL	3.5		ug/Kg-dry	259794	1	04/26/2018 00:12	AR
Dichlorodifluoromethane	BRL	7.1		ug/Kg-dry	259794	1	04/26/2018 00:12	AR
Ethylbenzene	BRL	3.5		ug/Kg-dry	259794	1	04/26/2018 00:12	AR
Freon-113	BRL	7.1		ug/Kg-dry	259794	1	04/26/2018 00:12	AR
Isopropylbenzene	BRL	3.5		ug/Kg-dry	259794	1	04/26/2018 00:12	AR
m,p-Xylene	BRL	3.5		ug/Kg-dry	259794	1	04/26/2018 00:12	AR
Methyl acetate	BRL	3.5		ug/Kg-dry	259794	1	04/26/2018 00:12	AR
Methyl tert-butyl ether	BRL	3.5		ug/Kg-dry	259794	1	04/26/2018 00:12	AR
Methylcyclohexane	BRL	3.5		ug/Kg-dry	259794	1	04/26/2018 00:12	AR
Methylene chloride	BRL	14		ug/Kg-dry	259794	1	04/26/2018 00:12	AR
o-Xylene	BRL	3.5		ug/Kg-dry	259794	1	04/26/2018 00:12	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18108-SCS-2-0.5
Project Name: Rheem	Collection Date: 4/18/2018 10:10:00 AM
Lab ID: 1804H65-068	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5035)			
Styrene	BRL	3.5		ug/Kg-dry	259794	1	04/26/2018 00:12	AR
Tetrachloroethene	BRL	3.5		ug/Kg-dry	259794	1	04/26/2018 00:12	AR
Toluene	BRL	3.5		ug/Kg-dry	259794	1	04/26/2018 00:12	AR
trans-1,2-Dichloroethene	BRL	3.5		ug/Kg-dry	259794	1	04/26/2018 00:12	AR
trans-1,3-Dichloropropene	BRL	3.5		ug/Kg-dry	259794	1	04/26/2018 00:12	AR
Trichloroethene	BRL	3.5		ug/Kg-dry	259794	1	04/26/2018 00:12	AR
Trichlorofluoromethane	BRL	3.5		ug/Kg-dry	259794	1	04/26/2018 00:12	AR
Vinyl chloride	BRL	7.1		ug/Kg-dry	259794	1	04/26/2018 00:12	AR
Surr: 4-Bromofluorobenzene	92.5	65-133		%REC	259794	1	04/26/2018 00:12	AR
Surr: Dibromofluoromethane	121	75.8-119	S	%REC	259794	1	04/26/2018 00:12	AR
Surr: Toluene-d8	91.1	78.3-120		%REC	259794	1	04/26/2018 00:12	AR
PERCENT MOISTURE D2216								
Percent Moisture	14.4	0		wt%	R368387	1	04/20/2018 17:00	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18108-SCS-2-1.5
Project Name: Rheem	Collection Date: 4/18/2018 10:15:00 AM
Lab ID: 1804H65-069	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	3.9		ug/Kg-dry	259794	1	04/26/2018 00:38	AR
1,1,2,2-Tetrachloroethane	BRL	3.9		ug/Kg-dry	259794	1	04/26/2018 00:38	AR
1,1,2-Trichloroethane	BRL	3.9		ug/Kg-dry	259794	1	04/26/2018 00:38	AR
1,1-Dichloroethane	BRL	3.9		ug/Kg-dry	259794	1	04/26/2018 00:38	AR
1,1-Dichloroethene	BRL	3.9		ug/Kg-dry	259794	1	04/26/2018 00:38	AR
1,2,4-Trichlorobenzene	BRL	3.9		ug/Kg-dry	259794	1	04/26/2018 00:38	AR
1,2-Dibromo-3-chloropropane	BRL	3.9		ug/Kg-dry	259794	1	04/26/2018 00:38	AR
1,2-Dibromoethane	BRL	3.9		ug/Kg-dry	259794	1	04/26/2018 00:38	AR
1,2-Dichlorobenzene	BRL	3.9		ug/Kg-dry	259794	1	04/26/2018 00:38	AR
1,2-Dichloroethane	BRL	3.9		ug/Kg-dry	259794	1	04/26/2018 00:38	AR
1,2-Dichloropropane	BRL	3.9		ug/Kg-dry	259794	1	04/26/2018 00:38	AR
1,3-Dichlorobenzene	BRL	3.9		ug/Kg-dry	259794	1	04/26/2018 00:38	AR
1,4-Dichlorobenzene	BRL	3.9		ug/Kg-dry	259794	1	04/26/2018 00:38	AR
2-Butanone	BRL	39		ug/Kg-dry	259794	1	04/26/2018 00:38	AR
2-Hexanone	BRL	7.8		ug/Kg-dry	259794	1	04/26/2018 00:38	AR
4-Methyl-2-pentanone	BRL	7.8		ug/Kg-dry	259794	1	04/26/2018 00:38	AR
Acetone	BRL	78		ug/Kg-dry	259794	1	04/26/2018 00:38	AR
Benzene	BRL	3.9		ug/Kg-dry	259794	1	04/26/2018 00:38	AR
Bromodichloromethane	BRL	3.9		ug/Kg-dry	259794	1	04/26/2018 00:38	AR
Bromoform	BRL	3.9		ug/Kg-dry	259794	1	04/26/2018 00:38	AR
Bromomethane	BRL	3.9		ug/Kg-dry	259794	1	04/26/2018 00:38	AR
Carbon disulfide	BRL	7.8		ug/Kg-dry	259794	1	04/26/2018 00:38	AR
Carbon tetrachloride	BRL	3.9		ug/Kg-dry	259794	1	04/26/2018 00:38	AR
Chlorobenzene	BRL	3.9		ug/Kg-dry	259794	1	04/26/2018 00:38	AR
Chloroethane	BRL	7.8		ug/Kg-dry	259794	1	04/26/2018 00:38	AR
Chloroform	BRL	3.9		ug/Kg-dry	259794	1	04/26/2018 00:38	AR
Chloromethane	BRL	7.8		ug/Kg-dry	259794	1	04/26/2018 00:38	AR
cis-1,2-Dichloroethene	BRL	3.9		ug/Kg-dry	259794	1	04/26/2018 00:38	AR
cis-1,3-Dichloropropene	BRL	3.9		ug/Kg-dry	259794	1	04/26/2018 00:38	AR
Cyclohexane	BRL	3.9		ug/Kg-dry	259794	1	04/26/2018 00:38	AR
Dibromochloromethane	BRL	3.9		ug/Kg-dry	259794	1	04/26/2018 00:38	AR
Dichlorodifluoromethane	BRL	7.8		ug/Kg-dry	259794	1	04/26/2018 00:38	AR
Ethylbenzene	BRL	3.9		ug/Kg-dry	259794	1	04/26/2018 00:38	AR
Freon-113	BRL	7.8		ug/Kg-dry	259794	1	04/26/2018 00:38	AR
Isopropylbenzene	BRL	3.9		ug/Kg-dry	259794	1	04/26/2018 00:38	AR
m,p-Xylene	BRL	3.9		ug/Kg-dry	259794	1	04/26/2018 00:38	AR
Methyl acetate	BRL	3.9		ug/Kg-dry	259794	1	04/26/2018 00:38	AR
Methyl tert-butyl ether	BRL	3.9		ug/Kg-dry	259794	1	04/26/2018 00:38	AR
Methylcyclohexane	BRL	3.9		ug/Kg-dry	259794	1	04/26/2018 00:38	AR
Methylene chloride	BRL	16		ug/Kg-dry	259794	1	04/26/2018 00:38	AR
o-Xylene	BRL	3.9		ug/Kg-dry	259794	1	04/26/2018 00:38	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18108-SCS-2-1.5
Project Name: Rheem	Collection Date: 4/18/2018 10:15:00 AM
Lab ID: 1804H65-069	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5035)			
Styrene	BRL	3.9		ug/Kg-dry	259794	1	04/26/2018 00:38	AR
Tetrachloroethene	BRL	3.9		ug/Kg-dry	259794	1	04/26/2018 00:38	AR
Toluene	BRL	3.9		ug/Kg-dry	259794	1	04/26/2018 00:38	AR
trans-1,2-Dichloroethene	BRL	3.9		ug/Kg-dry	259794	1	04/26/2018 00:38	AR
trans-1,3-Dichloropropene	BRL	3.9		ug/Kg-dry	259794	1	04/26/2018 00:38	AR
Trichloroethene	7.7	3.9		ug/Kg-dry	259794	1	04/26/2018 00:38	AR
Trichlorofluoromethane	BRL	3.9		ug/Kg-dry	259794	1	04/26/2018 00:38	AR
Vinyl chloride	BRL	7.8		ug/Kg-dry	259794	1	04/26/2018 00:38	AR
Surr: 4-Bromofluorobenzene	94.9	65-133		%REC	259794	1	04/26/2018 00:38	AR
Surr: Dibromofluoromethane	122	75.8-119	S	%REC	259794	1	04/26/2018 00:38	AR
Surr: Toluene-d8	94.4	78.3-120		%REC	259794	1	04/26/2018 00:38	AR
PERCENT MOISTURE D2216								
Percent Moisture	19.7	0		wt%	R368387	1	04/20/2018 17:00	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18108-SCS-2-4
Project Name: Rheem	Collection Date: 4/18/2018 10:20:00 AM
Lab ID: 1804H65-070	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	4.1		ug/Kg-dry	259794	1	04/26/2018 01:04	AR
1,1,2,2-Tetrachloroethane	BRL	4.1		ug/Kg-dry	259794	1	04/26/2018 01:04	AR
1,1,2-Trichloroethane	BRL	4.1		ug/Kg-dry	259794	1	04/26/2018 01:04	AR
1,1-Dichloroethane	BRL	4.1		ug/Kg-dry	259794	1	04/26/2018 01:04	AR
1,1-Dichloroethene	BRL	4.1		ug/Kg-dry	259794	1	04/26/2018 01:04	AR
1,2,4-Trichlorobenzene	BRL	4.1		ug/Kg-dry	259794	1	04/26/2018 01:04	AR
1,2-Dibromo-3-chloropropane	BRL	4.1		ug/Kg-dry	259794	1	04/26/2018 01:04	AR
1,2-Dibromoethane	BRL	4.1		ug/Kg-dry	259794	1	04/26/2018 01:04	AR
1,2-Dichlorobenzene	BRL	4.1		ug/Kg-dry	259794	1	04/26/2018 01:04	AR
1,2-Dichloroethane	BRL	4.1		ug/Kg-dry	259794	1	04/26/2018 01:04	AR
1,2-Dichloropropane	BRL	4.1		ug/Kg-dry	259794	1	04/26/2018 01:04	AR
1,3-Dichlorobenzene	BRL	4.1		ug/Kg-dry	259794	1	04/26/2018 01:04	AR
1,4-Dichlorobenzene	BRL	4.1		ug/Kg-dry	259794	1	04/26/2018 01:04	AR
2-Butanone	BRL	4.1		ug/Kg-dry	259794	1	04/26/2018 01:04	AR
2-Hexanone	BRL	8.1		ug/Kg-dry	259794	1	04/26/2018 01:04	AR
4-Methyl-2-pentanone	BRL	8.1		ug/Kg-dry	259794	1	04/26/2018 01:04	AR
Acetone	BRL	8.1		ug/Kg-dry	259794	1	04/26/2018 01:04	AR
Benzene	BRL	4.1		ug/Kg-dry	259794	1	04/26/2018 01:04	AR
Bromodichloromethane	BRL	4.1		ug/Kg-dry	259794	1	04/26/2018 01:04	AR
Bromoform	BRL	4.1		ug/Kg-dry	259794	1	04/26/2018 01:04	AR
Bromomethane	BRL	4.1		ug/Kg-dry	259794	1	04/26/2018 01:04	AR
Carbon disulfide	BRL	8.1		ug/Kg-dry	259794	1	04/26/2018 01:04	AR
Carbon tetrachloride	BRL	4.1		ug/Kg-dry	259794	1	04/26/2018 01:04	AR
Chlorobenzene	BRL	4.1		ug/Kg-dry	259794	1	04/26/2018 01:04	AR
Chloroethane	BRL	8.1		ug/Kg-dry	259794	1	04/26/2018 01:04	AR
Chloroform	BRL	4.1		ug/Kg-dry	259794	1	04/26/2018 01:04	AR
Chloromethane	BRL	8.1		ug/Kg-dry	259794	1	04/26/2018 01:04	AR
cis-1,2-Dichloroethene	BRL	4.1		ug/Kg-dry	259794	1	04/26/2018 01:04	AR
cis-1,3-Dichloropropene	BRL	4.1		ug/Kg-dry	259794	1	04/26/2018 01:04	AR
Cyclohexane	BRL	4.1		ug/Kg-dry	259794	1	04/26/2018 01:04	AR
Dibromochloromethane	BRL	4.1		ug/Kg-dry	259794	1	04/26/2018 01:04	AR
Dichlorodifluoromethane	BRL	8.1		ug/Kg-dry	259794	1	04/26/2018 01:04	AR
Ethylbenzene	BRL	4.1		ug/Kg-dry	259794	1	04/26/2018 01:04	AR
Freon-113	BRL	8.1		ug/Kg-dry	259794	1	04/26/2018 01:04	AR
Isopropylbenzene	BRL	4.1		ug/Kg-dry	259794	1	04/26/2018 01:04	AR
m,p-Xylene	BRL	4.1		ug/Kg-dry	259794	1	04/26/2018 01:04	AR
Methyl acetate	BRL	4.1		ug/Kg-dry	259794	1	04/26/2018 01:04	AR
Methyl tert-butyl ether	BRL	4.1		ug/Kg-dry	259794	1	04/26/2018 01:04	AR
Methylcyclohexane	BRL	4.1		ug/Kg-dry	259794	1	04/26/2018 01:04	AR
Methylene chloride	BRL	16		ug/Kg-dry	259794	1	04/26/2018 01:04	AR
o-Xylene	BRL	4.1		ug/Kg-dry	259794	1	04/26/2018 01:04	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18108-SCS-2-4
Project Name: Rheem	Collection Date: 4/18/2018 10:20:00 AM
Lab ID: 1804H65-070	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5035)			
Styrene	BRL	4.1		ug/Kg-dry	259794	1	04/26/2018 01:04	AR
Tetrachloroethene	BRL	4.1		ug/Kg-dry	259794	1	04/26/2018 01:04	AR
Toluene	BRL	4.1		ug/Kg-dry	259794	1	04/26/2018 01:04	AR
trans-1,2-Dichloroethene	BRL	4.1		ug/Kg-dry	259794	1	04/26/2018 01:04	AR
trans-1,3-Dichloropropene	BRL	4.1		ug/Kg-dry	259794	1	04/26/2018 01:04	AR
Trichloroethene	BRL	4.1		ug/Kg-dry	259794	1	04/26/2018 01:04	AR
Trichlorofluoromethane	BRL	4.1		ug/Kg-dry	259794	1	04/26/2018 01:04	AR
Vinyl chloride	BRL	8.1		ug/Kg-dry	259794	1	04/26/2018 01:04	AR
Surr: 4-Bromofluorobenzene	95.1	65-133		%REC	259794	1	04/26/2018 01:04	AR
Surr: Dibromofluoromethane	135	75.8-119	S	%REC	259794	1	04/26/2018 01:04	AR
Surr: Toluene-d8	99.8	78.3-120		%REC	259794	1	04/26/2018 01:04	AR
PERCENT MOISTURE D2216								
Percent Moisture	22.3	0		wt%	R368387	1	04/20/2018 17:00	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18108-SCS-2-8
Project Name: Rheem	Collection Date: 4/18/2018 10:25:00 AM
Lab ID: 1804H65-071	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 01:31	AR
1,1,2,2-Tetrachloroethane	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 01:31	AR
1,1,2-Trichloroethane	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 01:31	AR
1,1-Dichloroethane	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 01:31	AR
1,1-Dichloroethene	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 01:31	AR
1,2,4-Trichlorobenzene	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 01:31	AR
1,2-Dibromo-3-chloropropane	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 01:31	AR
1,2-Dibromoethane	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 01:31	AR
1,2-Dichlorobenzene	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 01:31	AR
1,2-Dichloroethane	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 01:31	AR
1,2-Dichloropropane	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 01:31	AR
1,3-Dichlorobenzene	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 01:31	AR
1,4-Dichlorobenzene	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 01:31	AR
2-Butanone	BRL	37		ug/Kg-dry	259794	1	04/26/2018 01:31	AR
2-Hexanone	BRL	7.4		ug/Kg-dry	259794	1	04/26/2018 01:31	AR
4-Methyl-2-pentanone	BRL	7.4		ug/Kg-dry	259794	1	04/26/2018 01:31	AR
Acetone	BRL	74		ug/Kg-dry	259794	1	04/26/2018 01:31	AR
Benzene	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 01:31	AR
Bromodichloromethane	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 01:31	AR
Bromoform	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 01:31	AR
Bromomethane	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 01:31	AR
Carbon disulfide	BRL	7.4		ug/Kg-dry	259794	1	04/26/2018 01:31	AR
Carbon tetrachloride	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 01:31	AR
Chlorobenzene	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 01:31	AR
Chloroethane	BRL	7.4		ug/Kg-dry	259794	1	04/26/2018 01:31	AR
Chloroform	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 01:31	AR
Chloromethane	BRL	7.4		ug/Kg-dry	259794	1	04/26/2018 01:31	AR
cis-1,2-Dichloroethene	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 01:31	AR
cis-1,3-Dichloropropene	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 01:31	AR
Cyclohexane	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 01:31	AR
Dibromochloromethane	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 01:31	AR
Dichlorodifluoromethane	BRL	7.4		ug/Kg-dry	259794	1	04/26/2018 01:31	AR
Ethylbenzene	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 01:31	AR
Freon-113	BRL	7.4		ug/Kg-dry	259794	1	04/26/2018 01:31	AR
Isopropylbenzene	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 01:31	AR
m,p-Xylene	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 01:31	AR
Methyl acetate	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 01:31	AR
Methyl tert-butyl ether	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 01:31	AR
Methylcyclohexane	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 01:31	AR
Methylene chloride	BRL	15		ug/Kg-dry	259794	1	04/26/2018 01:31	AR
o-Xylene	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 01:31	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18108-SCS-2-8
Project Name: Rheem	Collection Date: 4/18/2018 10:25:00 AM
Lab ID: 1804H65-071	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B			(SW5035)					
Styrene	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 01:31	AR
Tetrachloroethene	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 01:31	AR
Toluene	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 01:31	AR
trans-1,2-Dichloroethene	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 01:31	AR
trans-1,3-Dichloropropene	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 01:31	AR
Trichloroethene	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 01:31	AR
Trichlorofluoromethane	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 01:31	AR
Vinyl chloride	BRL	7.4		ug/Kg-dry	259794	1	04/26/2018 01:31	AR
Surr: 4-Bromofluorobenzene	96.3	65-133		%REC	259794	1	04/26/2018 01:31	AR
Surr: Dibromofluoromethane	114	75.8-119		%REC	259794	1	04/26/2018 01:31	AR
Surr: Toluene-d8	95.9	78.3-120		%REC	259794	1	04/26/2018 01:31	AR
PERCENT MOISTURE D2216								
Percent Moisture	17.0	0		wt%	R368387	1	04/20/2018 17:00	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18108-SCS-2-13
Project Name: Rheem	Collection Date: 4/18/2018 10:30:00 AM
Lab ID: 1804H65-072	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	3.3		ug/Kg-dry	259794	1	04/26/2018 01:56	AR
1,1,2,2-Tetrachloroethane	BRL	3.3		ug/Kg-dry	259794	1	04/26/2018 01:56	AR
1,1,2-Trichloroethane	BRL	3.3		ug/Kg-dry	259794	1	04/26/2018 01:56	AR
1,1-Dichloroethane	BRL	3.3		ug/Kg-dry	259794	1	04/26/2018 01:56	AR
1,1-Dichloroethene	BRL	3.3		ug/Kg-dry	259794	1	04/26/2018 01:56	AR
1,2,4-Trichlorobenzene	BRL	3.3		ug/Kg-dry	259794	1	04/26/2018 01:56	AR
1,2-Dibromo-3-chloropropane	BRL	3.3		ug/Kg-dry	259794	1	04/26/2018 01:56	AR
1,2-Dibromoethane	BRL	3.3		ug/Kg-dry	259794	1	04/26/2018 01:56	AR
1,2-Dichlorobenzene	BRL	3.3		ug/Kg-dry	259794	1	04/26/2018 01:56	AR
1,2-Dichloroethane	BRL	3.3		ug/Kg-dry	259794	1	04/26/2018 01:56	AR
1,2-Dichloropropane	BRL	3.3		ug/Kg-dry	259794	1	04/26/2018 01:56	AR
1,3-Dichlorobenzene	BRL	3.3		ug/Kg-dry	259794	1	04/26/2018 01:56	AR
1,4-Dichlorobenzene	BRL	3.3		ug/Kg-dry	259794	1	04/26/2018 01:56	AR
2-Butanone	BRL	33		ug/Kg-dry	259794	1	04/26/2018 01:56	AR
2-Hexanone	BRL	6.6		ug/Kg-dry	259794	1	04/26/2018 01:56	AR
4-Methyl-2-pentanone	BRL	6.6		ug/Kg-dry	259794	1	04/26/2018 01:56	AR
Acetone	BRL	66		ug/Kg-dry	259794	1	04/26/2018 01:56	AR
Benzene	BRL	3.3		ug/Kg-dry	259794	1	04/26/2018 01:56	AR
Bromodichloromethane	BRL	3.3		ug/Kg-dry	259794	1	04/26/2018 01:56	AR
Bromoform	BRL	3.3		ug/Kg-dry	259794	1	04/26/2018 01:56	AR
Bromomethane	BRL	3.3		ug/Kg-dry	259794	1	04/26/2018 01:56	AR
Carbon disulfide	BRL	6.6		ug/Kg-dry	259794	1	04/26/2018 01:56	AR
Carbon tetrachloride	BRL	3.3		ug/Kg-dry	259794	1	04/26/2018 01:56	AR
Chlorobenzene	BRL	3.3		ug/Kg-dry	259794	1	04/26/2018 01:56	AR
Chloroethane	BRL	6.6		ug/Kg-dry	259794	1	04/26/2018 01:56	AR
Chloroform	BRL	3.3		ug/Kg-dry	259794	1	04/26/2018 01:56	AR
Chloromethane	BRL	6.6		ug/Kg-dry	259794	1	04/26/2018 01:56	AR
cis-1,2-Dichloroethene	BRL	3.3		ug/Kg-dry	259794	1	04/26/2018 01:56	AR
cis-1,3-Dichloropropene	BRL	3.3		ug/Kg-dry	259794	1	04/26/2018 01:56	AR
Cyclohexane	BRL	3.3		ug/Kg-dry	259794	1	04/26/2018 01:56	AR
Dibromochloromethane	BRL	3.3		ug/Kg-dry	259794	1	04/26/2018 01:56	AR
Dichlorodifluoromethane	BRL	6.6		ug/Kg-dry	259794	1	04/26/2018 01:56	AR
Ethylbenzene	BRL	3.3		ug/Kg-dry	259794	1	04/26/2018 01:56	AR
Freon-113	BRL	6.6		ug/Kg-dry	259794	1	04/26/2018 01:56	AR
Isopropylbenzene	BRL	3.3		ug/Kg-dry	259794	1	04/26/2018 01:56	AR
m,p-Xylene	BRL	3.3		ug/Kg-dry	259794	1	04/26/2018 01:56	AR
Methyl acetate	BRL	3.3		ug/Kg-dry	259794	1	04/26/2018 01:56	AR
Methyl tert-butyl ether	BRL	3.3		ug/Kg-dry	259794	1	04/26/2018 01:56	AR
Methylcyclohexane	BRL	3.3		ug/Kg-dry	259794	1	04/26/2018 01:56	AR
Methylene chloride	BRL	13		ug/Kg-dry	259794	1	04/26/2018 01:56	AR
o-Xylene	BRL	3.3		ug/Kg-dry	259794	1	04/26/2018 01:56	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18108-SCS-2-13
Project Name: Rheem	Collection Date: 4/18/2018 10:30:00 AM
Lab ID: 1804H65-072	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
Styrene	BRL	3.3		ug/Kg-dry	259794	1	04/26/2018 01:56	AR
Tetrachloroethene	BRL	3.3		ug/Kg-dry	259794	1	04/26/2018 01:56	AR
Toluene	BRL	3.3		ug/Kg-dry	259794	1	04/26/2018 01:56	AR
trans-1,2-Dichloroethene	BRL	3.3		ug/Kg-dry	259794	1	04/26/2018 01:56	AR
trans-1,3-Dichloropropene	BRL	3.3		ug/Kg-dry	259794	1	04/26/2018 01:56	AR
Trichloroethene	BRL	3.3		ug/Kg-dry	259794	1	04/26/2018 01:56	AR
Trichlorofluoromethane	BRL	3.3		ug/Kg-dry	259794	1	04/26/2018 01:56	AR
Vinyl chloride	BRL	6.6		ug/Kg-dry	259794	1	04/26/2018 01:56	AR
Surr: 4-Bromofluorobenzene	93.4	65-133		%REC	259794	1	04/26/2018 01:56	AR
Surr: Dibromofluoromethane	144	75.8-119	S	%REC	259794	1	04/26/2018 01:56	AR
Surr: Toluene-d8	102	78.3-120		%REC	259794	1	04/26/2018 01:56	AR
PERCENT MOISTURE D2216								
Percent Moisture	18.0	0		wt%	R368387	1	04/20/2018 17:00	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18108-SCS-10-0.5
Project Name: Rheem	Collection Date: 4/18/2018 10:45:00 AM
Lab ID: 1804H65-073	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	3.4		ug/Kg-dry	259794	1	04/26/2018 02:23	AR
1,1,2,2-Tetrachloroethane	BRL	3.4		ug/Kg-dry	259794	1	04/26/2018 02:23	AR
1,1,2-Trichloroethane	BRL	3.4		ug/Kg-dry	259794	1	04/26/2018 02:23	AR
1,1-Dichloroethane	BRL	3.4		ug/Kg-dry	259794	1	04/26/2018 02:23	AR
1,1-Dichloroethene	BRL	3.4		ug/Kg-dry	259794	1	04/26/2018 02:23	AR
1,2,4-Trichlorobenzene	BRL	3.4		ug/Kg-dry	259794	1	04/26/2018 02:23	AR
1,2-Dibromo-3-chloropropane	BRL	3.4		ug/Kg-dry	259794	1	04/26/2018 02:23	AR
1,2-Dibromoethane	BRL	3.4		ug/Kg-dry	259794	1	04/26/2018 02:23	AR
1,2-Dichlorobenzene	BRL	3.4		ug/Kg-dry	259794	1	04/26/2018 02:23	AR
1,2-Dichloroethane	BRL	3.4		ug/Kg-dry	259794	1	04/26/2018 02:23	AR
1,2-Dichloropropane	BRL	3.4		ug/Kg-dry	259794	1	04/26/2018 02:23	AR
1,3-Dichlorobenzene	BRL	3.4		ug/Kg-dry	259794	1	04/26/2018 02:23	AR
1,4-Dichlorobenzene	BRL	3.4		ug/Kg-dry	259794	1	04/26/2018 02:23	AR
2-Butanone	BRL	34		ug/Kg-dry	259794	1	04/26/2018 02:23	AR
2-Hexanone	BRL	6.9		ug/Kg-dry	259794	1	04/26/2018 02:23	AR
4-Methyl-2-pentanone	BRL	6.9		ug/Kg-dry	259794	1	04/26/2018 02:23	AR
Acetone	BRL	69		ug/Kg-dry	259794	1	04/26/2018 02:23	AR
Benzene	BRL	3.4		ug/Kg-dry	259794	1	04/26/2018 02:23	AR
Bromodichloromethane	BRL	3.4		ug/Kg-dry	259794	1	04/26/2018 02:23	AR
Bromoform	BRL	3.4		ug/Kg-dry	259794	1	04/26/2018 02:23	AR
Bromomethane	BRL	3.4		ug/Kg-dry	259794	1	04/26/2018 02:23	AR
Carbon disulfide	BRL	6.9		ug/Kg-dry	259794	1	04/26/2018 02:23	AR
Carbon tetrachloride	BRL	3.4		ug/Kg-dry	259794	1	04/26/2018 02:23	AR
Chlorobenzene	BRL	3.4		ug/Kg-dry	259794	1	04/26/2018 02:23	AR
Chloroethane	BRL	6.9		ug/Kg-dry	259794	1	04/26/2018 02:23	AR
Chloroform	BRL	3.4		ug/Kg-dry	259794	1	04/26/2018 02:23	AR
Chloromethane	BRL	6.9		ug/Kg-dry	259794	1	04/26/2018 02:23	AR
cis-1,2-Dichloroethene	BRL	3.4		ug/Kg-dry	259794	1	04/26/2018 02:23	AR
cis-1,3-Dichloropropene	BRL	3.4		ug/Kg-dry	259794	1	04/26/2018 02:23	AR
Cyclohexane	BRL	3.4		ug/Kg-dry	259794	1	04/26/2018 02:23	AR
Dibromochloromethane	BRL	3.4		ug/Kg-dry	259794	1	04/26/2018 02:23	AR
Dichlorodifluoromethane	BRL	6.9		ug/Kg-dry	259794	1	04/26/2018 02:23	AR
Ethylbenzene	BRL	3.4		ug/Kg-dry	259794	1	04/26/2018 02:23	AR
Freon-113	BRL	6.9		ug/Kg-dry	259794	1	04/26/2018 02:23	AR
Isopropylbenzene	BRL	3.4		ug/Kg-dry	259794	1	04/26/2018 02:23	AR
m,p-Xylene	BRL	3.4		ug/Kg-dry	259794	1	04/26/2018 02:23	AR
Methyl acetate	BRL	3.4		ug/Kg-dry	259794	1	04/26/2018 02:23	AR
Methyl tert-butyl ether	BRL	3.4		ug/Kg-dry	259794	1	04/26/2018 02:23	AR
Methylcyclohexane	BRL	3.4		ug/Kg-dry	259794	1	04/26/2018 02:23	AR
Methylene chloride	BRL	14		ug/Kg-dry	259794	1	04/26/2018 02:23	AR
o-Xylene	BRL	3.4		ug/Kg-dry	259794	1	04/26/2018 02:23	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18108-SCS-10-0.5
Project Name: Rheem	Collection Date: 4/18/2018 10:45:00 AM
Lab ID: 1804H65-073	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B		(SW5035)						
Styrene	BRL	3.4		ug/Kg-dry	259794	1	04/26/2018 02:23	AR
Tetrachloroethene	BRL	3.4		ug/Kg-dry	259794	1	04/26/2018 02:23	AR
Toluene	BRL	3.4		ug/Kg-dry	259794	1	04/26/2018 02:23	AR
trans-1,2-Dichloroethene	BRL	3.4		ug/Kg-dry	259794	1	04/26/2018 02:23	AR
trans-1,3-Dichloropropene	BRL	3.4		ug/Kg-dry	259794	1	04/26/2018 02:23	AR
Trichloroethene	14	3.4		ug/Kg-dry	259794	1	04/26/2018 02:23	AR
Trichlorofluoromethane	BRL	3.4		ug/Kg-dry	259794	1	04/26/2018 02:23	AR
Vinyl chloride	BRL	6.9		ug/Kg-dry	259794	1	04/26/2018 02:23	AR
Surr: 4-Bromofluorobenzene	88	65-133		%REC	259794	1	04/26/2018 02:23	AR
Surr: Dibromofluoromethane	120	75.8-119	S	%REC	259794	1	04/26/2018 02:23	AR
Surr: Toluene-d8	97.3	78.3-120		%REC	259794	1	04/26/2018 02:23	AR
PERCENT MOISTURE D2216								
Percent Moisture	19.6	0		wt%	R368387	1	04/20/2018 17:00	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18108-SCS-10-1.5
Project Name: Rheem	Collection Date: 4/18/2018 10:50:00 AM
Lab ID: 1804H65-074	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	3.2		ug/Kg-dry	259794	1	04/26/2018 15:35	AR
1,1,2,2-Tetrachloroethane	BRL	3.2		ug/Kg-dry	259794	1	04/26/2018 15:35	AR
1,1,2-Trichloroethane	BRL	3.2		ug/Kg-dry	259794	1	04/26/2018 15:35	AR
1,1-Dichloroethane	BRL	3.2		ug/Kg-dry	259794	1	04/26/2018 15:35	AR
1,1-Dichloroethene	BRL	3.2		ug/Kg-dry	259794	1	04/26/2018 15:35	AR
1,2,4-Trichlorobenzene	BRL	3.2		ug/Kg-dry	259794	1	04/26/2018 15:35	AR
1,2-Dibromo-3-chloropropane	BRL	3.2		ug/Kg-dry	259794	1	04/26/2018 15:35	AR
1,2-Dibromoethane	BRL	3.2		ug/Kg-dry	259794	1	04/26/2018 15:35	AR
1,2-Dichlorobenzene	BRL	3.2		ug/Kg-dry	259794	1	04/26/2018 15:35	AR
1,2-Dichloroethane	BRL	3.2		ug/Kg-dry	259794	1	04/26/2018 15:35	AR
1,2-Dichloropropane	BRL	3.2		ug/Kg-dry	259794	1	04/26/2018 15:35	AR
1,3-Dichlorobenzene	BRL	3.2		ug/Kg-dry	259794	1	04/26/2018 15:35	AR
1,4-Dichlorobenzene	BRL	3.2		ug/Kg-dry	259794	1	04/26/2018 15:35	AR
2-Butanone	BRL	32		ug/Kg-dry	259794	1	04/26/2018 15:35	AR
2-Hexanone	BRL	6.4		ug/Kg-dry	259794	1	04/26/2018 15:35	AR
4-Methyl-2-pentanone	BRL	6.4		ug/Kg-dry	259794	1	04/26/2018 15:35	AR
Acetone	76	64		ug/Kg-dry	259794	1	04/26/2018 15:35	AR
Benzene	BRL	3.2		ug/Kg-dry	259794	1	04/26/2018 15:35	AR
Bromodichloromethane	BRL	3.2		ug/Kg-dry	259794	1	04/26/2018 15:35	AR
Bromoform	BRL	3.2		ug/Kg-dry	259794	1	04/26/2018 15:35	AR
Bromomethane	BRL	3.2		ug/Kg-dry	259794	1	04/26/2018 15:35	AR
Carbon disulfide	BRL	6.4		ug/Kg-dry	259794	1	04/26/2018 15:35	AR
Carbon tetrachloride	BRL	3.2		ug/Kg-dry	259794	1	04/26/2018 15:35	AR
Chlorobenzene	BRL	3.2		ug/Kg-dry	259794	1	04/26/2018 15:35	AR
Chloroethane	BRL	6.4		ug/Kg-dry	259794	1	04/26/2018 15:35	AR
Chloroform	BRL	3.2		ug/Kg-dry	259794	1	04/26/2018 15:35	AR
Chloromethane	BRL	6.4		ug/Kg-dry	259794	1	04/26/2018 15:35	AR
cis-1,2-Dichloroethene	6.2	3.2		ug/Kg-dry	259794	1	04/26/2018 15:35	AR
cis-1,3-Dichloropropene	BRL	3.2		ug/Kg-dry	259794	1	04/26/2018 15:35	AR
Cyclohexane	BRL	3.2		ug/Kg-dry	259794	1	04/26/2018 15:35	AR
Dibromochloromethane	BRL	3.2		ug/Kg-dry	259794	1	04/26/2018 15:35	AR
Dichlorodifluoromethane	BRL	6.4		ug/Kg-dry	259794	1	04/26/2018 15:35	AR
Ethylbenzene	BRL	3.2		ug/Kg-dry	259794	1	04/26/2018 15:35	AR
Freon-113	BRL	6.4		ug/Kg-dry	259794	1	04/26/2018 15:35	AR
Isopropylbenzene	BRL	3.2		ug/Kg-dry	259794	1	04/26/2018 15:35	AR
m,p-Xylene	BRL	3.2		ug/Kg-dry	259794	1	04/26/2018 15:35	AR
Methyl acetate	BRL	3.2		ug/Kg-dry	259794	1	04/26/2018 15:35	AR
Methyl tert-butyl ether	BRL	3.2		ug/Kg-dry	259794	1	04/26/2018 15:35	AR
Methylcyclohexane	BRL	3.2		ug/Kg-dry	259794	1	04/26/2018 15:35	AR
Methylene chloride	BRL	13		ug/Kg-dry	259794	1	04/26/2018 15:35	AR
o-Xylene	BRL	3.2		ug/Kg-dry	259794	1	04/26/2018 15:35	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18108-SCS-10-1.5
Project Name: Rheem	Collection Date: 4/18/2018 10:50:00 AM
Lab ID: 1804H65-074	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
Styrene	BRL	3.2		ug/Kg-dry	259794	1	04/26/2018 15:35	AR
Tetrachloroethene	BRL	3.2		ug/Kg-dry	259794	1	04/26/2018 15:35	AR
Toluene	BRL	3.2		ug/Kg-dry	259794	1	04/26/2018 15:35	AR
trans-1,2-Dichloroethene	BRL	3.2		ug/Kg-dry	259794	1	04/26/2018 15:35	AR
trans-1,3-Dichloropropene	BRL	3.2		ug/Kg-dry	259794	1	04/26/2018 15:35	AR
Trichloroethene	81	3.2		ug/Kg-dry	259794	1	04/26/2018 15:35	AR
Trichlorofluoromethane	BRL	3.2		ug/Kg-dry	259794	1	04/26/2018 15:35	AR
Vinyl chloride	BRL	6.4		ug/Kg-dry	259794	1	04/26/2018 15:35	AR
Surr: 4-Bromofluorobenzene	86.3	65-133		%REC	259794	1	04/26/2018 15:35	AR
Surr: Dibromofluoromethane	112	75.8-119		%REC	259794	1	04/26/2018 15:35	AR
Surr: Toluene-d8	101	78.3-120		%REC	259794	1	04/26/2018 15:35	AR
PERCENT MOISTURE D2216								
Percent Moisture	25.8	0		wt%	R368387	1	04/20/2018 17:00	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18108-SCS-10-4
Project Name: Rheem	Collection Date: 4/18/2018 10:55:00 AM
Lab ID: 1804H65-075	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	4.1		ug/Kg-dry	259794	1	04/26/2018 16:01	AR
1,1,2,2-Tetrachloroethane	BRL	4.1		ug/Kg-dry	259794	1	04/26/2018 16:01	AR
1,1,2-Trichloroethane	BRL	4.1		ug/Kg-dry	259794	1	04/26/2018 16:01	AR
1,1-Dichloroethane	BRL	4.1		ug/Kg-dry	259794	1	04/26/2018 16:01	AR
1,1-Dichloroethene	BRL	4.1		ug/Kg-dry	259794	1	04/26/2018 16:01	AR
1,2,4-Trichlorobenzene	BRL	4.1		ug/Kg-dry	259794	1	04/26/2018 16:01	AR
1,2-Dibromo-3-chloropropane	BRL	4.1		ug/Kg-dry	259794	1	04/26/2018 16:01	AR
1,2-Dibromoethane	BRL	4.1		ug/Kg-dry	259794	1	04/26/2018 16:01	AR
1,2-Dichlorobenzene	BRL	4.1		ug/Kg-dry	259794	1	04/26/2018 16:01	AR
1,2-Dichloroethane	BRL	4.1		ug/Kg-dry	259794	1	04/26/2018 16:01	AR
1,2-Dichloropropane	BRL	4.1		ug/Kg-dry	259794	1	04/26/2018 16:01	AR
1,3-Dichlorobenzene	BRL	4.1		ug/Kg-dry	259794	1	04/26/2018 16:01	AR
1,4-Dichlorobenzene	BRL	4.1		ug/Kg-dry	259794	1	04/26/2018 16:01	AR
2-Butanone	BRL	41		ug/Kg-dry	259794	1	04/26/2018 16:01	AR
2-Hexanone	BRL	8.1		ug/Kg-dry	259794	1	04/26/2018 16:01	AR
4-Methyl-2-pentanone	BRL	8.1		ug/Kg-dry	259794	1	04/26/2018 16:01	AR
Acetone	BRL	81		ug/Kg-dry	259794	1	04/26/2018 16:01	AR
Benzene	BRL	4.1		ug/Kg-dry	259794	1	04/26/2018 16:01	AR
Bromodichloromethane	BRL	4.1		ug/Kg-dry	259794	1	04/26/2018 16:01	AR
Bromoform	BRL	4.1		ug/Kg-dry	259794	1	04/26/2018 16:01	AR
Bromomethane	BRL	4.1		ug/Kg-dry	259794	1	04/26/2018 16:01	AR
Carbon disulfide	BRL	8.1		ug/Kg-dry	259794	1	04/26/2018 16:01	AR
Carbon tetrachloride	BRL	4.1		ug/Kg-dry	259794	1	04/26/2018 16:01	AR
Chlorobenzene	BRL	4.1		ug/Kg-dry	259794	1	04/26/2018 16:01	AR
Chloroethane	BRL	8.1		ug/Kg-dry	259794	1	04/26/2018 16:01	AR
Chloroform	BRL	4.1		ug/Kg-dry	259794	1	04/26/2018 16:01	AR
Chloromethane	BRL	8.1		ug/Kg-dry	259794	1	04/26/2018 16:01	AR
cis-1,2-Dichloroethene	BRL	4.1		ug/Kg-dry	259794	1	04/26/2018 16:01	AR
cis-1,3-Dichloropropene	BRL	4.1		ug/Kg-dry	259794	1	04/26/2018 16:01	AR
Cyclohexane	BRL	4.1		ug/Kg-dry	259794	1	04/26/2018 16:01	AR
Dibromochloromethane	BRL	4.1		ug/Kg-dry	259794	1	04/26/2018 16:01	AR
Dichlorodifluoromethane	BRL	8.1		ug/Kg-dry	259794	1	04/26/2018 16:01	AR
Ethylbenzene	BRL	4.1		ug/Kg-dry	259794	1	04/26/2018 16:01	AR
Freon-113	BRL	8.1		ug/Kg-dry	259794	1	04/26/2018 16:01	AR
Isopropylbenzene	BRL	4.1		ug/Kg-dry	259794	1	04/26/2018 16:01	AR
m,p-Xylene	BRL	4.1		ug/Kg-dry	259794	1	04/26/2018 16:01	AR
Methyl acetate	BRL	4.1		ug/Kg-dry	259794	1	04/26/2018 16:01	AR
Methyl tert-butyl ether	BRL	4.1		ug/Kg-dry	259794	1	04/26/2018 16:01	AR
Methylcyclohexane	BRL	4.1		ug/Kg-dry	259794	1	04/26/2018 16:01	AR
Methylene chloride	BRL	16		ug/Kg-dry	259794	1	04/26/2018 16:01	AR
o-Xylene	BRL	4.1		ug/Kg-dry	259794	1	04/26/2018 16:01	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18108-SCS-10-4
Project Name: Rheem	Collection Date: 4/18/2018 10:55:00 AM
Lab ID: 1804H65-075	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
Styrene	BRL	4.1		ug/Kg-dry	259794	1	04/26/2018 16:01	AR
Tetrachloroethene	BRL	4.1		ug/Kg-dry	259794	1	04/26/2018 16:01	AR
Toluene	BRL	4.1		ug/Kg-dry	259794	1	04/26/2018 16:01	AR
trans-1,2-Dichloroethene	BRL	4.1		ug/Kg-dry	259794	1	04/26/2018 16:01	AR
trans-1,3-Dichloropropene	BRL	4.1		ug/Kg-dry	259794	1	04/26/2018 16:01	AR
Trichloroethene	9.2	4.1		ug/Kg-dry	259794	1	04/26/2018 16:01	AR
Trichlorofluoromethane	BRL	4.1		ug/Kg-dry	259794	1	04/26/2018 16:01	AR
Vinyl chloride	BRL	8.1		ug/Kg-dry	259794	1	04/26/2018 16:01	AR
Surr: 4-Bromofluorobenzene	90.7	65-133		%REC	259794	1	04/26/2018 16:01	AR
Surr: Dibromofluoromethane	127	75.8-119	S	%REC	259794	1	04/26/2018 16:01	AR
Surr: Toluene-d8	105	78.3-120		%REC	259794	1	04/26/2018 16:01	AR
PERCENT MOISTURE D2216								
Percent Moisture	22.9	0		wt%	R368387	1	04/20/2018 17:00	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18108-SCS-10-8
Project Name: Rheem	Collection Date: 4/18/2018 11:00:00 AM
Lab ID: 1804H65-076	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 16:28	AR
1,1,2,2-Tetrachloroethane	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 16:28	AR
1,1,2-Trichloroethane	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 16:28	AR
1,1-Dichloroethane	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 16:28	AR
1,1-Dichloroethene	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 16:28	AR
1,2,4-Trichlorobenzene	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 16:28	AR
1,2-Dibromo-3-chloropropane	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 16:28	AR
1,2-Dibromoethane	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 16:28	AR
1,2-Dichlorobenzene	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 16:28	AR
1,2-Dichloroethane	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 16:28	AR
1,2-Dichloropropane	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 16:28	AR
1,3-Dichlorobenzene	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 16:28	AR
1,4-Dichlorobenzene	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 16:28	AR
2-Butanone	BRL	37		ug/Kg-dry	259794	1	04/26/2018 16:28	AR
2-Hexanone	BRL	7.4		ug/Kg-dry	259794	1	04/26/2018 16:28	AR
4-Methyl-2-pentanone	BRL	7.4		ug/Kg-dry	259794	1	04/26/2018 16:28	AR
Acetone	BRL	74		ug/Kg-dry	259794	1	04/26/2018 16:28	AR
Benzene	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 16:28	AR
Bromodichloromethane	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 16:28	AR
Bromoform	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 16:28	AR
Bromomethane	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 16:28	AR
Carbon disulfide	BRL	7.4		ug/Kg-dry	259794	1	04/26/2018 16:28	AR
Carbon tetrachloride	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 16:28	AR
Chlorobenzene	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 16:28	AR
Chloroethane	BRL	7.4		ug/Kg-dry	259794	1	04/26/2018 16:28	AR
Chloroform	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 16:28	AR
Chloromethane	BRL	7.4		ug/Kg-dry	259794	1	04/26/2018 16:28	AR
cis-1,2-Dichloroethene	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 16:28	AR
cis-1,3-Dichloropropene	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 16:28	AR
Cyclohexane	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 16:28	AR
Dibromochloromethane	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 16:28	AR
Dichlorodifluoromethane	BRL	7.4		ug/Kg-dry	259794	1	04/26/2018 16:28	AR
Ethylbenzene	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 16:28	AR
Freon-113	BRL	7.4		ug/Kg-dry	259794	1	04/26/2018 16:28	AR
Isopropylbenzene	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 16:28	AR
m,p-Xylene	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 16:28	AR
Methyl acetate	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 16:28	AR
Methyl tert-butyl ether	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 16:28	AR
Methylcyclohexane	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 16:28	AR
Methylene chloride	BRL	15		ug/Kg-dry	259794	1	04/26/2018 16:28	AR
o-Xylene	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 16:28	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18108-SCS-10-8
Project Name: Rheem	Collection Date: 4/18/2018 11:00:00 AM
Lab ID: 1804H65-076	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5035)			
Styrene	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 16:28	AR
Tetrachloroethene	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 16:28	AR
Toluene	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 16:28	AR
trans-1,2-Dichloroethene	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 16:28	AR
trans-1,3-Dichloropropene	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 16:28	AR
Trichloroethene	15	3.7		ug/Kg-dry	259794	1	04/26/2018 16:28	AR
Trichlorofluoromethane	BRL	3.7		ug/Kg-dry	259794	1	04/26/2018 16:28	AR
Vinyl chloride	BRL	7.4		ug/Kg-dry	259794	1	04/26/2018 16:28	AR
Surr: 4-Bromofluorobenzene	92.2	65-133		%REC	259794	1	04/26/2018 16:28	AR
Surr: Dibromofluoromethane	113	75.8-119		%REC	259794	1	04/26/2018 16:28	AR
Surr: Toluene-d8	97.9	78.3-120		%REC	259794	1	04/26/2018 16:28	AR
PERCENT MOISTURE D2216								
Percent Moisture	19.5	0		wt%	R368387	1	04/20/2018 17:00	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18108-SCS-10-13
Project Name: Rheem	Collection Date: 4/18/2018 11:15:00 AM
Lab ID: 1804H65-077	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	3.6		ug/Kg-dry	259794	1	04/26/2018 16:54	AR
1,1,2,2-Tetrachloroethane	BRL	3.6		ug/Kg-dry	259794	1	04/26/2018 16:54	AR
1,1,2-Trichloroethane	BRL	3.6		ug/Kg-dry	259794	1	04/26/2018 16:54	AR
1,1-Dichloroethane	BRL	3.6		ug/Kg-dry	259794	1	04/26/2018 16:54	AR
1,1-Dichloroethene	BRL	3.6		ug/Kg-dry	259794	1	04/26/2018 16:54	AR
1,2,4-Trichlorobenzene	BRL	3.6		ug/Kg-dry	259794	1	04/26/2018 16:54	AR
1,2-Dibromo-3-chloropropane	BRL	3.6		ug/Kg-dry	259794	1	04/26/2018 16:54	AR
1,2-Dibromoethane	BRL	3.6		ug/Kg-dry	259794	1	04/26/2018 16:54	AR
1,2-Dichlorobenzene	BRL	3.6		ug/Kg-dry	259794	1	04/26/2018 16:54	AR
1,2-Dichloroethane	BRL	3.6		ug/Kg-dry	259794	1	04/26/2018 16:54	AR
1,2-Dichloropropane	BRL	3.6		ug/Kg-dry	259794	1	04/26/2018 16:54	AR
1,3-Dichlorobenzene	BRL	3.6		ug/Kg-dry	259794	1	04/26/2018 16:54	AR
1,4-Dichlorobenzene	BRL	3.6		ug/Kg-dry	259794	1	04/26/2018 16:54	AR
2-Butanone	BRL	36		ug/Kg-dry	259794	1	04/26/2018 16:54	AR
2-Hexanone	BRL	7.2		ug/Kg-dry	259794	1	04/26/2018 16:54	AR
4-Methyl-2-pentanone	BRL	7.2		ug/Kg-dry	259794	1	04/26/2018 16:54	AR
Acetone	BRL	72		ug/Kg-dry	259794	1	04/26/2018 16:54	AR
Benzene	BRL	3.6		ug/Kg-dry	259794	1	04/26/2018 16:54	AR
Bromodichloromethane	BRL	3.6		ug/Kg-dry	259794	1	04/26/2018 16:54	AR
Bromoform	BRL	3.6		ug/Kg-dry	259794	1	04/26/2018 16:54	AR
Bromomethane	BRL	3.6		ug/Kg-dry	259794	1	04/26/2018 16:54	AR
Carbon disulfide	BRL	7.2		ug/Kg-dry	259794	1	04/26/2018 16:54	AR
Carbon tetrachloride	BRL	3.6		ug/Kg-dry	259794	1	04/26/2018 16:54	AR
Chlorobenzene	BRL	3.6		ug/Kg-dry	259794	1	04/26/2018 16:54	AR
Chloroethane	BRL	7.2		ug/Kg-dry	259794	1	04/26/2018 16:54	AR
Chloroform	BRL	3.6		ug/Kg-dry	259794	1	04/26/2018 16:54	AR
Chloromethane	BRL	7.2		ug/Kg-dry	259794	1	04/26/2018 16:54	AR
cis-1,2-Dichloroethene	BRL	3.6		ug/Kg-dry	259794	1	04/26/2018 16:54	AR
cis-1,3-Dichloropropene	BRL	3.6		ug/Kg-dry	259794	1	04/26/2018 16:54	AR
Cyclohexane	BRL	3.6		ug/Kg-dry	259794	1	04/26/2018 16:54	AR
Dibromochloromethane	BRL	3.6		ug/Kg-dry	259794	1	04/26/2018 16:54	AR
Dichlorodifluoromethane	BRL	7.2		ug/Kg-dry	259794	1	04/26/2018 16:54	AR
Ethylbenzene	BRL	3.6		ug/Kg-dry	259794	1	04/26/2018 16:54	AR
Freon-113	BRL	7.2		ug/Kg-dry	259794	1	04/26/2018 16:54	AR
Isopropylbenzene	BRL	3.6		ug/Kg-dry	259794	1	04/26/2018 16:54	AR
m,p-Xylene	BRL	3.6		ug/Kg-dry	259794	1	04/26/2018 16:54	AR
Methyl acetate	BRL	3.6		ug/Kg-dry	259794	1	04/26/2018 16:54	AR
Methyl tert-butyl ether	BRL	3.6		ug/Kg-dry	259794	1	04/26/2018 16:54	AR
Methylcyclohexane	BRL	3.6		ug/Kg-dry	259794	1	04/26/2018 16:54	AR
Methylene chloride	BRL	14		ug/Kg-dry	259794	1	04/26/2018 16:54	AR
o-Xylene	BRL	3.6		ug/Kg-dry	259794	1	04/26/2018 16:54	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18108-SCS-10-13
Project Name: Rheem	Collection Date: 4/18/2018 11:15:00 AM
Lab ID: 1804H65-077	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5035)			
Styrene	BRL	3.6		ug/Kg-dry	259794	1	04/26/2018 16:54	AR
Tetrachloroethene	BRL	3.6		ug/Kg-dry	259794	1	04/26/2018 16:54	AR
Toluene	BRL	3.6		ug/Kg-dry	259794	1	04/26/2018 16:54	AR
trans-1,2-Dichloroethene	BRL	3.6		ug/Kg-dry	259794	1	04/26/2018 16:54	AR
trans-1,3-Dichloropropene	BRL	3.6		ug/Kg-dry	259794	1	04/26/2018 16:54	AR
Trichloroethene	BRL	3.6		ug/Kg-dry	259794	1	04/26/2018 16:54	AR
Trichlorofluoromethane	BRL	3.6		ug/Kg-dry	259794	1	04/26/2018 16:54	AR
Vinyl chloride	BRL	7.2		ug/Kg-dry	259794	1	04/26/2018 16:54	AR
Surr: 4-Bromofluorobenzene	90.6	65-133		%REC	259794	1	04/26/2018 16:54	AR
Surr: Dibromofluoromethane	122	75.8-119	S	%REC	259794	1	04/26/2018 16:54	AR
Surr: Toluene-d8	105	78.3-120		%REC	259794	1	04/26/2018 16:54	AR
PERCENT MOISTURE D2216								
Percent Moisture	20.8	0		wt%	R368387	1	04/20/2018 17:00	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18108-SCS-7-0.5
Project Name: Rheem	Collection Date: 4/18/2018 11:30:00 AM
Lab ID: 1804H65-078	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	210		ug/Kg-dry	259788	50	04/27/2018 15:42	CC
1,1,2,2-Tetrachloroethane	BRL	210		ug/Kg-dry	259788	50	04/27/2018 15:42	CC
1,1,2-Trichloroethane	BRL	210		ug/Kg-dry	259788	50	04/27/2018 15:42	CC
1,1-Dichloroethane	BRL	210		ug/Kg-dry	259788	50	04/27/2018 15:42	CC
1,1-Dichloroethene	BRL	210		ug/Kg-dry	259788	50	04/27/2018 15:42	CC
1,2,4-Trichlorobenzene	BRL	210		ug/Kg-dry	259788	50	04/27/2018 15:42	CC
1,2-Dibromo-3-chloropropane	BRL	210		ug/Kg-dry	259788	50	04/27/2018 15:42	CC
1,2-Dibromoethane	BRL	210		ug/Kg-dry	259788	50	04/27/2018 15:42	CC
1,2-Dichlorobenzene	BRL	210		ug/Kg-dry	259788	50	04/27/2018 15:42	CC
1,2-Dichloroethane	BRL	210		ug/Kg-dry	259788	50	04/27/2018 15:42	CC
1,2-Dichloropropane	BRL	210		ug/Kg-dry	259788	50	04/27/2018 15:42	CC
1,3-Dichlorobenzene	BRL	210		ug/Kg-dry	259788	50	04/27/2018 15:42	CC
1,4-Dichlorobenzene	BRL	210		ug/Kg-dry	259788	50	04/27/2018 15:42	CC
2-Butanone	BRL	2100		ug/Kg-dry	259788	50	04/27/2018 15:42	CC
2-Hexanone	BRL	420		ug/Kg-dry	259788	50	04/27/2018 15:42	CC
4-Methyl-2-pentanone	BRL	420		ug/Kg-dry	259788	50	04/27/2018 15:42	CC
Acetone	BRL	4200		ug/Kg-dry	259788	50	04/27/2018 15:42	CC
Benzene	BRL	210		ug/Kg-dry	259788	50	04/27/2018 15:42	CC
Bromodichloromethane	BRL	210		ug/Kg-dry	259788	50	04/27/2018 15:42	CC
Bromoform	BRL	210		ug/Kg-dry	259788	50	04/27/2018 15:42	CC
Bromomethane	BRL	210		ug/Kg-dry	259788	50	04/27/2018 15:42	CC
Carbon disulfide	BRL	420		ug/Kg-dry	259788	50	04/27/2018 15:42	CC
Carbon tetrachloride	BRL	210		ug/Kg-dry	259788	50	04/27/2018 15:42	CC
Chlorobenzene	BRL	210		ug/Kg-dry	259788	50	04/27/2018 15:42	CC
Chloroethane	BRL	420		ug/Kg-dry	259788	50	04/27/2018 15:42	CC
Chloroform	BRL	210		ug/Kg-dry	259788	50	04/27/2018 15:42	CC
Chloromethane	BRL	420		ug/Kg-dry	259788	50	04/27/2018 15:42	CC
cis-1,2-Dichloroethene	BRL	210		ug/Kg-dry	259788	50	04/27/2018 15:42	CC
cis-1,3-Dichloropropene	BRL	210		ug/Kg-dry	259788	50	04/27/2018 15:42	CC
Cyclohexane	BRL	210		ug/Kg-dry	259788	50	04/27/2018 15:42	CC
Dibromochloromethane	BRL	210		ug/Kg-dry	259788	50	04/27/2018 15:42	CC
Dichlorodifluoromethane	BRL	420		ug/Kg-dry	259788	50	04/27/2018 15:42	CC
Ethylbenzene	BRL	210		ug/Kg-dry	259788	50	04/27/2018 15:42	CC
Freon-113	BRL	420		ug/Kg-dry	259788	50	04/27/2018 15:42	CC
Isopropylbenzene	BRL	210		ug/Kg-dry	259788	50	04/27/2018 15:42	CC
m,p-Xylene	BRL	210		ug/Kg-dry	259788	50	04/27/2018 15:42	CC
Methyl acetate	BRL	210		ug/Kg-dry	259788	50	04/27/2018 15:42	CC
Methyl tert-butyl ether	BRL	210		ug/Kg-dry	259788	50	04/27/2018 15:42	CC
Methylcyclohexane	BRL	210		ug/Kg-dry	259788	50	04/27/2018 15:42	CC
Methylene chloride	BRL	850		ug/Kg-dry	259788	50	04/27/2018 15:42	CC
o-Xylene	BRL	210		ug/Kg-dry	259788	50	04/27/2018 15:42	CC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18108-SCS-7-0.5
Project Name: Rheem	Collection Date: 4/18/2018 11:30:00 AM
Lab ID: 1804H65-078	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
Styrene	BRL	210		ug/Kg-dry	259788	50	04/27/2018 15:42	CC
Tetrachloroethene	BRL	210		ug/Kg-dry	259788	50	04/27/2018 15:42	CC
Toluene	BRL	210		ug/Kg-dry	259788	50	04/27/2018 15:42	CC
trans-1,2-Dichloroethene	BRL	210		ug/Kg-dry	259788	50	04/27/2018 15:42	CC
trans-1,3-Dichloropropene	BRL	210		ug/Kg-dry	259788	50	04/27/2018 15:42	CC
Trichloroethene	BRL	210		ug/Kg-dry	259788	50	04/27/2018 15:42	CC
Trichlorofluoromethane	BRL	210		ug/Kg-dry	259788	50	04/27/2018 15:42	CC
Vinyl chloride	BRL	420		ug/Kg-dry	259788	50	04/27/2018 15:42	CC
Surr: 4-Bromofluorobenzene	84.7	65-133		%REC	259788	50	04/27/2018 15:42	CC
Surr: Dibromofluoromethane	90.6	75.8-119		%REC	259788	50	04/27/2018 15:42	CC
Surr: Toluene-d8	97.5	78.3-120		%REC	259788	50	04/27/2018 15:42	CC
PERCENT MOISTURE D2216								
Percent Moisture	17.5	0		wt%	R368387	1	04/20/2018 17:00	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18108-SCS-7-1.5
Project Name: Rheem	Collection Date: 4/18/2018 11:35:00 AM
Lab ID: 1804H65-079	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	3.6		ug/Kg-dry	259794	1	04/26/2018 17:25	AR
1,1,2,2-Tetrachloroethane	BRL	3.6		ug/Kg-dry	259794	1	04/26/2018 17:25	AR
1,1,2-Trichloroethane	BRL	3.6		ug/Kg-dry	259794	1	04/26/2018 17:25	AR
1,1-Dichloroethane	BRL	3.6		ug/Kg-dry	259794	1	04/26/2018 17:25	AR
1,1-Dichloroethene	BRL	3.6		ug/Kg-dry	259794	1	04/26/2018 17:25	AR
1,2,4-Trichlorobenzene	BRL	3.6		ug/Kg-dry	259794	1	04/26/2018 17:25	AR
1,2-Dibromo-3-chloropropane	BRL	3.6		ug/Kg-dry	259794	1	04/26/2018 17:25	AR
1,2-Dibromoethane	BRL	3.6		ug/Kg-dry	259794	1	04/26/2018 17:25	AR
1,2-Dichlorobenzene	BRL	3.6		ug/Kg-dry	259794	1	04/26/2018 17:25	AR
1,2-Dichloroethane	BRL	3.6		ug/Kg-dry	259794	1	04/26/2018 17:25	AR
1,2-Dichloropropane	BRL	3.6		ug/Kg-dry	259794	1	04/26/2018 17:25	AR
1,3-Dichlorobenzene	BRL	3.6		ug/Kg-dry	259794	1	04/26/2018 17:25	AR
1,4-Dichlorobenzene	BRL	3.6		ug/Kg-dry	259794	1	04/26/2018 17:25	AR
2-Butanone	BRL	36		ug/Kg-dry	259794	1	04/26/2018 17:25	AR
2-Hexanone	BRL	7.3		ug/Kg-dry	259794	1	04/26/2018 17:25	AR
4-Methyl-2-pentanone	BRL	7.3		ug/Kg-dry	259794	1	04/26/2018 17:25	AR
Acetone	77	73		ug/Kg-dry	259794	1	04/26/2018 17:25	AR
Benzene	BRL	3.6		ug/Kg-dry	259794	1	04/26/2018 17:25	AR
Bromodichloromethane	BRL	3.6		ug/Kg-dry	259794	1	04/26/2018 17:25	AR
Bromoform	BRL	3.6		ug/Kg-dry	259794	1	04/26/2018 17:25	AR
Bromomethane	BRL	3.6		ug/Kg-dry	259794	1	04/26/2018 17:25	AR
Carbon disulfide	BRL	7.3		ug/Kg-dry	259794	1	04/26/2018 17:25	AR
Carbon tetrachloride	BRL	3.6		ug/Kg-dry	259794	1	04/26/2018 17:25	AR
Chlorobenzene	BRL	3.6		ug/Kg-dry	259794	1	04/26/2018 17:25	AR
Chloroethane	BRL	7.3		ug/Kg-dry	259794	1	04/26/2018 17:25	AR
Chloroform	BRL	3.6		ug/Kg-dry	259794	1	04/26/2018 17:25	AR
Chloromethane	BRL	7.3		ug/Kg-dry	259794	1	04/26/2018 17:25	AR
cis-1,2-Dichloroethene	160	3.6	E	ug/Kg-dry	259794	1	04/26/2018 17:25	AR
cis-1,3-Dichloropropene	BRL	3.6		ug/Kg-dry	259794	1	04/26/2018 17:25	AR
Cyclohexane	BRL	3.6		ug/Kg-dry	259794	1	04/26/2018 17:25	AR
Dibromochloromethane	BRL	3.6		ug/Kg-dry	259794	1	04/26/2018 17:25	AR
Dichlorodifluoromethane	BRL	7.3		ug/Kg-dry	259794	1	04/26/2018 17:25	AR
Ethylbenzene	BRL	3.6		ug/Kg-dry	259794	1	04/26/2018 17:25	AR
Freon-113	BRL	7.3		ug/Kg-dry	259794	1	04/26/2018 17:25	AR
Isopropylbenzene	BRL	3.6		ug/Kg-dry	259794	1	04/26/2018 17:25	AR
m,p-Xylene	BRL	3.6		ug/Kg-dry	259794	1	04/26/2018 17:25	AR
Methyl acetate	BRL	3.6		ug/Kg-dry	259794	1	04/26/2018 17:25	AR
Methyl tert-butyl ether	BRL	3.6		ug/Kg-dry	259794	1	04/26/2018 17:25	AR
Methylcyclohexane	BRL	3.6		ug/Kg-dry	259794	1	04/26/2018 17:25	AR
Methylene chloride	BRL	15		ug/Kg-dry	259794	1	04/26/2018 17:25	AR
o-Xylene	BRL	3.6		ug/Kg-dry	259794	1	04/26/2018 17:25	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18108-SCS-7-1.5
Project Name: Rheem	Collection Date: 4/18/2018 11:35:00 AM
Lab ID: 1804H65-079	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5035)			
Styrene	BRL	3.6		ug/Kg-dry	259794	1	04/26/2018 17:25	AR
Tetrachloroethene	BRL	3.6		ug/Kg-dry	259794	1	04/26/2018 17:25	AR
Toluene	BRL	3.6		ug/Kg-dry	259794	1	04/26/2018 17:25	AR
trans-1,2-Dichloroethene	BRL	3.6		ug/Kg-dry	259794	1	04/26/2018 17:25	AR
trans-1,3-Dichloropropene	BRL	3.6		ug/Kg-dry	259794	1	04/26/2018 17:25	AR
Trichloroethene	37	3.6		ug/Kg-dry	259794	1	04/26/2018 17:25	AR
Trichlorofluoromethane	BRL	3.6		ug/Kg-dry	259794	1	04/26/2018 17:25	AR
Vinyl chloride	BRL	7.3		ug/Kg-dry	259794	1	04/26/2018 17:25	AR
Surr: 4-Bromofluorobenzene	93.1	65-133		%REC	259794	1	04/26/2018 17:25	AR
Surr: Dibromofluoromethane	90.7	75.8-119		%REC	259794	1	04/26/2018 17:25	AR
Surr: Toluene-d8	101	78.3-120		%REC	259794	1	04/26/2018 17:25	AR
PERCENT MOISTURE D2216								
Percent Moisture	23.6	0		wt%	R368387	1	04/20/2018 17:00	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18108-SCS-7-4
Project Name: Rheem	Collection Date: 4/18/2018 11:40:00 AM
Lab ID: 1804H65-080	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	3.9		ug/Kg-dry	259825	1	04/25/2018 15:13	AR
1,1,2,2-Tetrachloroethane	BRL	3.9		ug/Kg-dry	259825	1	04/25/2018 15:13	AR
1,1,2-Trichloroethane	BRL	3.9		ug/Kg-dry	259825	1	04/25/2018 15:13	AR
1,1-Dichloroethane	BRL	3.9		ug/Kg-dry	259825	1	04/25/2018 15:13	AR
1,1-Dichloroethene	BRL	3.9		ug/Kg-dry	259825	1	04/25/2018 15:13	AR
1,2,4-Trichlorobenzene	BRL	3.9		ug/Kg-dry	259825	1	04/25/2018 15:13	AR
1,2-Dibromo-3-chloropropane	BRL	3.9		ug/Kg-dry	259825	1	04/25/2018 15:13	AR
1,2-Dibromoethane	BRL	3.9		ug/Kg-dry	259825	1	04/25/2018 15:13	AR
1,2-Dichlorobenzene	BRL	3.9		ug/Kg-dry	259825	1	04/25/2018 15:13	AR
1,2-Dichloroethane	BRL	3.9		ug/Kg-dry	259825	1	04/25/2018 15:13	AR
1,2-Dichloropropane	BRL	3.9		ug/Kg-dry	259825	1	04/25/2018 15:13	AR
1,3-Dichlorobenzene	BRL	3.9		ug/Kg-dry	259825	1	04/25/2018 15:13	AR
1,4-Dichlorobenzene	BRL	3.9		ug/Kg-dry	259825	1	04/25/2018 15:13	AR
2-Butanone	BRL	39		ug/Kg-dry	259825	1	04/25/2018 15:13	AR
2-Hexanone	BRL	7.9		ug/Kg-dry	259825	1	04/25/2018 15:13	AR
4-Methyl-2-pentanone	BRL	7.9		ug/Kg-dry	259825	1	04/25/2018 15:13	AR
Acetone	BRL	79		ug/Kg-dry	259825	1	04/25/2018 15:13	AR
Benzene	BRL	3.9		ug/Kg-dry	259825	1	04/25/2018 15:13	AR
Bromodichloromethane	BRL	3.9		ug/Kg-dry	259825	1	04/25/2018 15:13	AR
Bromoform	BRL	3.9		ug/Kg-dry	259825	1	04/25/2018 15:13	AR
Bromomethane	BRL	3.9		ug/Kg-dry	259825	1	04/25/2018 15:13	AR
Carbon disulfide	BRL	7.9		ug/Kg-dry	259825	1	04/25/2018 15:13	AR
Carbon tetrachloride	BRL	3.9		ug/Kg-dry	259825	1	04/25/2018 15:13	AR
Chlorobenzene	BRL	3.9		ug/Kg-dry	259825	1	04/25/2018 15:13	AR
Chloroethane	BRL	7.9		ug/Kg-dry	259825	1	04/25/2018 15:13	AR
Chloroform	BRL	3.9		ug/Kg-dry	259825	1	04/25/2018 15:13	AR
Chloromethane	BRL	7.9		ug/Kg-dry	259825	1	04/25/2018 15:13	AR
cis-1,2-Dichloroethene	30	3.9		ug/Kg-dry	259825	1	04/25/2018 15:13	AR
cis-1,3-Dichloropropene	BRL	3.9		ug/Kg-dry	259825	1	04/25/2018 15:13	AR
Cyclohexane	BRL	3.9		ug/Kg-dry	259825	1	04/25/2018 15:13	AR
Dibromochloromethane	BRL	3.9		ug/Kg-dry	259825	1	04/25/2018 15:13	AR
Dichlorodifluoromethane	BRL	7.9		ug/Kg-dry	259825	1	04/25/2018 15:13	AR
Ethylbenzene	BRL	3.9		ug/Kg-dry	259825	1	04/25/2018 15:13	AR
Freon-113	BRL	7.9		ug/Kg-dry	259825	1	04/25/2018 15:13	AR
Isopropylbenzene	BRL	3.9		ug/Kg-dry	259825	1	04/25/2018 15:13	AR
m,p-Xylene	BRL	3.9		ug/Kg-dry	259825	1	04/25/2018 15:13	AR
Methyl acetate	BRL	3.9		ug/Kg-dry	259825	1	04/25/2018 15:13	AR
Methyl tert-butyl ether	BRL	3.9		ug/Kg-dry	259825	1	04/25/2018 15:13	AR
Methylcyclohexane	BRL	3.9		ug/Kg-dry	259825	1	04/25/2018 15:13	AR
Methylene chloride	BRL	16		ug/Kg-dry	259825	1	04/25/2018 15:13	AR
o-Xylene	BRL	3.9		ug/Kg-dry	259825	1	04/25/2018 15:13	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18108-SCS-7-4
Project Name: Rheem	Collection Date: 4/18/2018 11:40:00 AM
Lab ID: 1804H65-080	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5035)			
Styrene	BRL	3.9		ug/Kg-dry	259825	1	04/25/2018 15:13	AR
Tetrachloroethene	BRL	3.9		ug/Kg-dry	259825	1	04/25/2018 15:13	AR
Toluene	BRL	3.9		ug/Kg-dry	259825	1	04/25/2018 15:13	AR
trans-1,2-Dichloroethene	BRL	3.9		ug/Kg-dry	259825	1	04/25/2018 15:13	AR
trans-1,3-Dichloropropene	BRL	3.9		ug/Kg-dry	259825	1	04/25/2018 15:13	AR
Trichloroethene	170	3.9	E	ug/Kg-dry	259825	1	04/25/2018 15:13	AR
Trichlorofluoromethane	BRL	3.9		ug/Kg-dry	259825	1	04/25/2018 15:13	AR
Vinyl chloride	BRL	7.9		ug/Kg-dry	259825	1	04/25/2018 15:13	AR
Surr: 4-Bromofluorobenzene	97.9	65-133		%REC	259825	1	04/25/2018 15:13	AR
Surr: Dibromofluoromethane	88.8	75.8-119		%REC	259825	1	04/25/2018 15:13	AR
Surr: Toluene-d8	100	78.3-120		%REC	259825	1	04/25/2018 15:13	AR
PERCENT MOISTURE D2216								
Percent Moisture	23.6	0		wt%	R368387	1	04/20/2018 17:00	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18108-SCS-7-8
Project Name: Rheem	Collection Date: 4/18/2018 11:45:00 AM
Lab ID: 1804H65-081	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	5.1		ug/Kg-dry	259825	1	04/25/2018 15:38	AR
1,1,2,2-Tetrachloroethane	BRL	5.1		ug/Kg-dry	259825	1	04/25/2018 15:38	AR
1,1,2-Trichloroethane	BRL	5.1		ug/Kg-dry	259825	1	04/25/2018 15:38	AR
1,1-Dichloroethane	BRL	5.1		ug/Kg-dry	259825	1	04/25/2018 15:38	AR
1,1-Dichloroethene	BRL	5.1		ug/Kg-dry	259825	1	04/25/2018 15:38	AR
1,2,4-Trichlorobenzene	BRL	5.1		ug/Kg-dry	259825	1	04/25/2018 15:38	AR
1,2-Dibromo-3-chloropropane	BRL	5.1		ug/Kg-dry	259825	1	04/25/2018 15:38	AR
1,2-Dibromoethane	BRL	5.1		ug/Kg-dry	259825	1	04/25/2018 15:38	AR
1,2-Dichlorobenzene	BRL	5.1		ug/Kg-dry	259825	1	04/25/2018 15:38	AR
1,2-Dichloroethane	BRL	5.1		ug/Kg-dry	259825	1	04/25/2018 15:38	AR
1,2-Dichloropropane	BRL	5.1		ug/Kg-dry	259825	1	04/25/2018 15:38	AR
1,3-Dichlorobenzene	BRL	5.1		ug/Kg-dry	259825	1	04/25/2018 15:38	AR
1,4-Dichlorobenzene	BRL	5.1		ug/Kg-dry	259825	1	04/25/2018 15:38	AR
2-Butanone	BRL	51		ug/Kg-dry	259825	1	04/25/2018 15:38	AR
2-Hexanone	BRL	10		ug/Kg-dry	259825	1	04/25/2018 15:38	AR
4-Methyl-2-pentanone	BRL	10		ug/Kg-dry	259825	1	04/25/2018 15:38	AR
Acetone	120	100		ug/Kg-dry	259825	1	04/25/2018 15:38	AR
Benzene	BRL	5.1		ug/Kg-dry	259825	1	04/25/2018 15:38	AR
Bromodichloromethane	BRL	5.1		ug/Kg-dry	259825	1	04/25/2018 15:38	AR
Bromoform	BRL	5.1		ug/Kg-dry	259825	1	04/25/2018 15:38	AR
Bromomethane	BRL	5.1		ug/Kg-dry	259825	1	04/25/2018 15:38	AR
Carbon disulfide	BRL	10		ug/Kg-dry	259825	1	04/25/2018 15:38	AR
Carbon tetrachloride	BRL	5.1		ug/Kg-dry	259825	1	04/25/2018 15:38	AR
Chlorobenzene	BRL	5.1		ug/Kg-dry	259825	1	04/25/2018 15:38	AR
Chloroethane	BRL	10		ug/Kg-dry	259825	1	04/25/2018 15:38	AR
Chloroform	BRL	5.1		ug/Kg-dry	259825	1	04/25/2018 15:38	AR
Chloromethane	BRL	10		ug/Kg-dry	259825	1	04/25/2018 15:38	AR
cis-1,2-Dichloroethene	440	220		ug/Kg-dry	259788	50	04/27/2018 16:11	CC
cis-1,3-Dichloropropene	BRL	5.1		ug/Kg-dry	259825	1	04/25/2018 15:38	AR
Cyclohexane	BRL	5.1		ug/Kg-dry	259825	1	04/25/2018 15:38	AR
Dibromochloromethane	BRL	5.1		ug/Kg-dry	259825	1	04/25/2018 15:38	AR
Dichlorodifluoromethane	BRL	10		ug/Kg-dry	259825	1	04/25/2018 15:38	AR
Ethylbenzene	BRL	5.1		ug/Kg-dry	259825	1	04/25/2018 15:38	AR
Freon-113	BRL	10		ug/Kg-dry	259825	1	04/25/2018 15:38	AR
Isopropylbenzene	BRL	5.1		ug/Kg-dry	259825	1	04/25/2018 15:38	AR
m,p-Xylene	BRL	5.1		ug/Kg-dry	259825	1	04/25/2018 15:38	AR
Methyl acetate	BRL	5.1		ug/Kg-dry	259825	1	04/25/2018 15:38	AR
Methyl tert-butyl ether	BRL	5.1		ug/Kg-dry	259825	1	04/25/2018 15:38	AR
Methylcyclohexane	BRL	5.1		ug/Kg-dry	259825	1	04/25/2018 15:38	AR
Methylene chloride	BRL	20		ug/Kg-dry	259825	1	04/25/2018 15:38	AR
o-Xylene	BRL	5.1		ug/Kg-dry	259825	1	04/25/2018 15:38	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18108-SCS-7-8
Project Name: Rheem	Collection Date: 4/18/2018 11:45:00 AM
Lab ID: 1804H65-081	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5035)			
Styrene	BRL	5.1		ug/Kg-dry	259825	1	04/25/2018 15:38	AR
Tetrachloroethene	BRL	5.1		ug/Kg-dry	259825	1	04/25/2018 15:38	AR
Toluene	BRL	5.1		ug/Kg-dry	259825	1	04/25/2018 15:38	AR
trans-1,2-Dichloroethene	BRL	5.1		ug/Kg-dry	259825	1	04/25/2018 15:38	AR
trans-1,3-Dichloropropene	BRL	5.1		ug/Kg-dry	259825	1	04/25/2018 15:38	AR
Trichloroethene	3100	220		ug/Kg-dry	259788	50	04/27/2018 16:11	CC
Trichlorofluoromethane	BRL	5.1		ug/Kg-dry	259825	1	04/25/2018 15:38	AR
Vinyl chloride	BRL	10		ug/Kg-dry	259825	1	04/25/2018 15:38	AR
Surr: 4-Bromofluorobenzene	98.2	65-133		%REC	259788	50	04/27/2018 16:11	CC
Surr: 4-Bromofluorobenzene	98.2	65-133		%REC	259825	1	04/25/2018 15:38	AR
Surr: Dibromofluoromethane	90.5	75.8-119		%REC	259788	50	04/27/2018 16:11	CC
Surr: Dibromofluoromethane	90.6	75.8-119		%REC	259825	1	04/25/2018 15:38	AR
Surr: Toluene-d8	101	78.3-120		%REC	259788	50	04/27/2018 16:11	CC
Surr: Toluene-d8	100	78.3-120		%REC	259825	1	04/25/2018 15:38	AR
PERCENT MOISTURE D2216								
Percent Moisture	28.3	0		wt%	R368461	1	04/23/2018 08:15	NS

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18108-SCS-7-13
Project Name: Rheem	Collection Date: 4/18/2018 11:50:00 AM
Lab ID: 1804H65-082	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	6.4		ug/Kg-dry	259825	1	04/26/2018 23:27	AR
1,1,2,2-Tetrachloroethane	BRL	6.4		ug/Kg-dry	259825	1	04/26/2018 23:27	AR
1,1,2-Trichloroethane	BRL	6.4		ug/Kg-dry	259825	1	04/26/2018 23:27	AR
1,1-Dichloroethane	BRL	6.4		ug/Kg-dry	259825	1	04/26/2018 23:27	AR
1,1-Dichloroethene	BRL	6.4		ug/Kg-dry	259825	1	04/26/2018 23:27	AR
1,2,4-Trichlorobenzene	BRL	6.4		ug/Kg-dry	259825	1	04/26/2018 23:27	AR
1,2-Dibromo-3-chloropropane	BRL	6.4		ug/Kg-dry	259825	1	04/26/2018 23:27	AR
1,2-Dibromoethane	BRL	6.4		ug/Kg-dry	259825	1	04/26/2018 23:27	AR
1,2-Dichlorobenzene	BRL	6.4		ug/Kg-dry	259825	1	04/26/2018 23:27	AR
1,2-Dichloroethane	BRL	6.4		ug/Kg-dry	259825	1	04/26/2018 23:27	AR
1,2-Dichloropropane	BRL	6.4		ug/Kg-dry	259825	1	04/26/2018 23:27	AR
1,3-Dichlorobenzene	BRL	6.4		ug/Kg-dry	259825	1	04/26/2018 23:27	AR
1,4-Dichlorobenzene	BRL	6.4		ug/Kg-dry	259825	1	04/26/2018 23:27	AR
2-Butanone	BRL	64		ug/Kg-dry	259825	1	04/26/2018 23:27	AR
2-Hexanone	BRL	13		ug/Kg-dry	259825	1	04/26/2018 23:27	AR
4-Methyl-2-pentanone	BRL	13		ug/Kg-dry	259825	1	04/26/2018 23:27	AR
Acetone	BRL	130		ug/Kg-dry	259825	1	04/26/2018 23:27	AR
Benzene	BRL	6.4		ug/Kg-dry	259825	1	04/26/2018 23:27	AR
Bromodichloromethane	BRL	6.4		ug/Kg-dry	259825	1	04/26/2018 23:27	AR
Bromoform	BRL	6.4		ug/Kg-dry	259825	1	04/26/2018 23:27	AR
Bromomethane	BRL	6.4		ug/Kg-dry	259825	1	04/26/2018 23:27	AR
Carbon disulfide	BRL	13		ug/Kg-dry	259825	1	04/26/2018 23:27	AR
Carbon tetrachloride	BRL	6.4		ug/Kg-dry	259825	1	04/26/2018 23:27	AR
Chlorobenzene	BRL	6.4		ug/Kg-dry	259825	1	04/26/2018 23:27	AR
Chloroethane	BRL	13		ug/Kg-dry	259825	1	04/26/2018 23:27	AR
Chloroform	BRL	6.4		ug/Kg-dry	259825	1	04/26/2018 23:27	AR
Chloromethane	BRL	13		ug/Kg-dry	259825	1	04/26/2018 23:27	AR
cis-1,2-Dichloroethene	BRL	6.4		ug/Kg-dry	259825	1	04/26/2018 23:27	AR
cis-1,3-Dichloropropene	BRL	6.4		ug/Kg-dry	259825	1	04/26/2018 23:27	AR
Cyclohexane	BRL	6.4		ug/Kg-dry	259825	1	04/26/2018 23:27	AR
Dibromochloromethane	BRL	6.4		ug/Kg-dry	259825	1	04/26/2018 23:27	AR
Dichlorodifluoromethane	BRL	13		ug/Kg-dry	259825	1	04/26/2018 23:27	AR
Ethylbenzene	BRL	6.4		ug/Kg-dry	259825	1	04/26/2018 23:27	AR
Freon-113	BRL	13		ug/Kg-dry	259825	1	04/26/2018 23:27	AR
Isopropylbenzene	BRL	6.4		ug/Kg-dry	259825	1	04/26/2018 23:27	AR
m,p-Xylene	BRL	6.4		ug/Kg-dry	259825	1	04/26/2018 23:27	AR
Methyl acetate	BRL	6.4		ug/Kg-dry	259825	1	04/26/2018 23:27	AR
Methyl tert-butyl ether	BRL	6.4		ug/Kg-dry	259825	1	04/26/2018 23:27	AR
Methylcyclohexane	BRL	6.4		ug/Kg-dry	259825	1	04/26/2018 23:27	AR
Methylene chloride	BRL	26		ug/Kg-dry	259825	1	04/26/2018 23:27	AR
o-Xylene	BRL	6.4		ug/Kg-dry	259825	1	04/26/2018 23:27	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18108-SCS-7-13
Project Name: Rheem	Collection Date: 4/18/2018 11:50:00 AM
Lab ID: 1804H65-082	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
Styrene	BRL	6.4		ug/Kg-dry	259825	1	04/26/2018 23:27	AR
Tetrachloroethene	BRL	6.4		ug/Kg-dry	259825	1	04/26/2018 23:27	AR
Toluene	BRL	6.4		ug/Kg-dry	259825	1	04/26/2018 23:27	AR
trans-1,2-Dichloroethene	BRL	6.4		ug/Kg-dry	259825	1	04/26/2018 23:27	AR
trans-1,3-Dichloropropene	BRL	6.4		ug/Kg-dry	259825	1	04/26/2018 23:27	AR
Trichloroethene	BRL	6.4		ug/Kg-dry	259825	1	04/26/2018 23:27	AR
Trichlorofluoromethane	BRL	6.4		ug/Kg-dry	259825	1	04/26/2018 23:27	AR
Vinyl chloride	BRL	13		ug/Kg-dry	259825	1	04/26/2018 23:27	AR
Surr: 4-Bromofluorobenzene	78.4	65-133		%REC	259825	1	04/26/2018 23:27	AR
Surr: Dibromofluoromethane	92.8	75.8-119		%REC	259825	1	04/26/2018 23:27	AR
Surr: Toluene-d8	92.6	78.3-120		%REC	259825	1	04/26/2018 23:27	AR
PERCENT MOISTURE D2216								
Percent Moisture	21.4	0		wt%	R368461	1	04/23/2018 08:15	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18108-SCS-11-0.5
Project Name: Rheem	Collection Date: 4/18/2018 1:15:00 PM
Lab ID: 1804H65-083	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	3.7		ug/Kg-dry	259825	1	04/25/2018 19:16	AR
1,1,2,2-Tetrachloroethane	BRL	3.7		ug/Kg-dry	259825	1	04/25/2018 19:16	AR
1,1,2-Trichloroethane	BRL	3.7		ug/Kg-dry	259825	1	04/25/2018 19:16	AR
1,1-Dichloroethane	BRL	3.7		ug/Kg-dry	259825	1	04/25/2018 19:16	AR
1,1-Dichloroethene	BRL	3.7		ug/Kg-dry	259825	1	04/25/2018 19:16	AR
1,2,4-Trichlorobenzene	BRL	3.7		ug/Kg-dry	259825	1	04/25/2018 19:16	AR
1,2-Dibromo-3-chloropropane	BRL	3.7		ug/Kg-dry	259825	1	04/25/2018 19:16	AR
1,2-Dibromoethane	BRL	3.7		ug/Kg-dry	259825	1	04/25/2018 19:16	AR
1,2-Dichlorobenzene	BRL	3.7		ug/Kg-dry	259825	1	04/25/2018 19:16	AR
1,2-Dichloroethane	BRL	3.7		ug/Kg-dry	259825	1	04/25/2018 19:16	AR
1,2-Dichloropropane	BRL	3.7		ug/Kg-dry	259825	1	04/25/2018 19:16	AR
1,3-Dichlorobenzene	BRL	3.7		ug/Kg-dry	259825	1	04/25/2018 19:16	AR
1,4-Dichlorobenzene	BRL	3.7		ug/Kg-dry	259825	1	04/25/2018 19:16	AR
2-Butanone	BRL	37		ug/Kg-dry	259825	1	04/25/2018 19:16	AR
2-Hexanone	BRL	7.3		ug/Kg-dry	259825	1	04/25/2018 19:16	AR
4-Methyl-2-pentanone	BRL	7.3		ug/Kg-dry	259825	1	04/25/2018 19:16	AR
Acetone	BRL	73		ug/Kg-dry	259825	1	04/25/2018 19:16	AR
Benzene	BRL	3.7		ug/Kg-dry	259825	1	04/25/2018 19:16	AR
Bromodichloromethane	BRL	3.7		ug/Kg-dry	259825	1	04/25/2018 19:16	AR
Bromoform	BRL	3.7		ug/Kg-dry	259825	1	04/25/2018 19:16	AR
Bromomethane	BRL	3.7		ug/Kg-dry	259825	1	04/25/2018 19:16	AR
Carbon disulfide	BRL	7.3		ug/Kg-dry	259825	1	04/25/2018 19:16	AR
Carbon tetrachloride	BRL	3.7		ug/Kg-dry	259825	1	04/25/2018 19:16	AR
Chlorobenzene	BRL	3.7		ug/Kg-dry	259825	1	04/25/2018 19:16	AR
Chloroethane	BRL	7.3		ug/Kg-dry	259825	1	04/25/2018 19:16	AR
Chloroform	BRL	3.7		ug/Kg-dry	259825	1	04/25/2018 19:16	AR
Chloromethane	BRL	7.3		ug/Kg-dry	259825	1	04/25/2018 19:16	AR
cis-1,2-Dichloroethene	BRL	3.7		ug/Kg-dry	259825	1	04/25/2018 19:16	AR
cis-1,3-Dichloropropene	BRL	3.7		ug/Kg-dry	259825	1	04/25/2018 19:16	AR
Cyclohexane	BRL	3.7		ug/Kg-dry	259825	1	04/25/2018 19:16	AR
Dibromochloromethane	BRL	3.7		ug/Kg-dry	259825	1	04/25/2018 19:16	AR
Dichlorodifluoromethane	BRL	7.3		ug/Kg-dry	259825	1	04/25/2018 19:16	AR
Ethylbenzene	BRL	3.7		ug/Kg-dry	259825	1	04/25/2018 19:16	AR
Freon-113	BRL	7.3		ug/Kg-dry	259825	1	04/25/2018 19:16	AR
Isopropylbenzene	BRL	3.7		ug/Kg-dry	259825	1	04/25/2018 19:16	AR
m,p-Xylene	BRL	3.7		ug/Kg-dry	259825	1	04/25/2018 19:16	AR
Methyl acetate	BRL	3.7		ug/Kg-dry	259825	1	04/25/2018 19:16	AR
Methyl tert-butyl ether	BRL	3.7		ug/Kg-dry	259825	1	04/25/2018 19:16	AR
Methylcyclohexane	BRL	3.7		ug/Kg-dry	259825	1	04/25/2018 19:16	AR
Methylene chloride	BRL	15		ug/Kg-dry	259825	1	04/25/2018 19:16	AR
o-Xylene	BRL	3.7		ug/Kg-dry	259825	1	04/25/2018 19:16	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18108-SCS-11-0.5
Project Name: Rheem	Collection Date: 4/18/2018 1:15:00 PM
Lab ID: 1804H65-083	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B			(SW5035)					
Styrene	BRL	3.7		ug/Kg-dry	259825	1	04/25/2018 19:16	AR
Tetrachloroethene	BRL	3.7		ug/Kg-dry	259825	1	04/25/2018 19:16	AR
Toluene	BRL	3.7		ug/Kg-dry	259825	1	04/25/2018 19:16	AR
trans-1,2-Dichloroethene	BRL	3.7		ug/Kg-dry	259825	1	04/25/2018 19:16	AR
trans-1,3-Dichloropropene	BRL	3.7		ug/Kg-dry	259825	1	04/25/2018 19:16	AR
Trichloroethene	8.8	3.7		ug/Kg-dry	259825	1	04/25/2018 19:16	AR
Trichlorofluoromethane	BRL	3.7		ug/Kg-dry	259825	1	04/25/2018 19:16	AR
Vinyl chloride	BRL	7.3		ug/Kg-dry	259825	1	04/25/2018 19:16	AR
Surr: 4-Bromofluorobenzene	96	65-133		%REC	259825	1	04/25/2018 19:16	AR
Surr: Dibromofluoromethane	91.1	75.8-119		%REC	259825	1	04/25/2018 19:16	AR
Surr: Toluene-d8	102	78.3-120		%REC	259825	1	04/25/2018 19:16	AR
PERCENT MOISTURE D2216								
Percent Moisture	18.8	0		wt%	R368461	1	04/23/2018 08:15	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18108-SCS-11-1.5
Project Name: Rheem	Collection Date: 4/18/2018 1:20:00 PM
Lab ID: 1804H65-084	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	3.3		ug/Kg-dry	259825	1	04/25/2018 21:20	AR
1,1,2,2-Tetrachloroethane	BRL	3.3		ug/Kg-dry	259825	1	04/25/2018 21:20	AR
1,1,2-Trichloroethane	BRL	3.3		ug/Kg-dry	259825	1	04/25/2018 21:20	AR
1,1-Dichloroethane	BRL	3.3		ug/Kg-dry	259825	1	04/25/2018 21:20	AR
1,1-Dichloroethene	BRL	3.3		ug/Kg-dry	259825	1	04/25/2018 21:20	AR
1,2,4-Trichlorobenzene	BRL	3.3		ug/Kg-dry	259825	1	04/25/2018 21:20	AR
1,2-Dibromo-3-chloropropane	BRL	3.3		ug/Kg-dry	259825	1	04/25/2018 21:20	AR
1,2-Dibromoethane	BRL	3.3		ug/Kg-dry	259825	1	04/25/2018 21:20	AR
1,2-Dichlorobenzene	BRL	3.3		ug/Kg-dry	259825	1	04/25/2018 21:20	AR
1,2-Dichloroethane	BRL	3.3		ug/Kg-dry	259825	1	04/25/2018 21:20	AR
1,2-Dichloropropane	BRL	3.3		ug/Kg-dry	259825	1	04/25/2018 21:20	AR
1,3-Dichlorobenzene	BRL	3.3		ug/Kg-dry	259825	1	04/25/2018 21:20	AR
1,4-Dichlorobenzene	BRL	3.3		ug/Kg-dry	259825	1	04/25/2018 21:20	AR
2-Butanone	BRL	33		ug/Kg-dry	259825	1	04/25/2018 21:20	AR
2-Hexanone	BRL	6.7		ug/Kg-dry	259825	1	04/25/2018 21:20	AR
4-Methyl-2-pentanone	BRL	6.7		ug/Kg-dry	259825	1	04/25/2018 21:20	AR
Acetone	BRL	67		ug/Kg-dry	259825	1	04/25/2018 21:20	AR
Benzene	BRL	3.3		ug/Kg-dry	259825	1	04/25/2018 21:20	AR
Bromodichloromethane	BRL	3.3		ug/Kg-dry	259825	1	04/25/2018 21:20	AR
Bromoform	BRL	3.3		ug/Kg-dry	259825	1	04/25/2018 21:20	AR
Bromomethane	BRL	3.3		ug/Kg-dry	259825	1	04/25/2018 21:20	AR
Carbon disulfide	BRL	6.7		ug/Kg-dry	259825	1	04/25/2018 21:20	AR
Carbon tetrachloride	BRL	3.3		ug/Kg-dry	259825	1	04/25/2018 21:20	AR
Chlorobenzene	BRL	3.3		ug/Kg-dry	259825	1	04/25/2018 21:20	AR
Chloroethane	BRL	6.7		ug/Kg-dry	259825	1	04/25/2018 21:20	AR
Chloroform	BRL	3.3		ug/Kg-dry	259825	1	04/25/2018 21:20	AR
Chloromethane	BRL	6.7		ug/Kg-dry	259825	1	04/25/2018 21:20	AR
cis-1,2-Dichloroethene	BRL	3.3		ug/Kg-dry	259825	1	04/25/2018 21:20	AR
cis-1,3-Dichloropropene	BRL	3.3		ug/Kg-dry	259825	1	04/25/2018 21:20	AR
Cyclohexane	BRL	3.3		ug/Kg-dry	259825	1	04/25/2018 21:20	AR
Dibromochloromethane	BRL	3.3		ug/Kg-dry	259825	1	04/25/2018 21:20	AR
Dichlorodifluoromethane	BRL	6.7		ug/Kg-dry	259825	1	04/25/2018 21:20	AR
Ethylbenzene	BRL	3.3		ug/Kg-dry	259825	1	04/25/2018 21:20	AR
Freon-113	BRL	6.7		ug/Kg-dry	259825	1	04/25/2018 21:20	AR
Isopropylbenzene	BRL	3.3		ug/Kg-dry	259825	1	04/25/2018 21:20	AR
m,p-Xylene	BRL	3.3		ug/Kg-dry	259825	1	04/25/2018 21:20	AR
Methyl acetate	BRL	3.3		ug/Kg-dry	259825	1	04/25/2018 21:20	AR
Methyl tert-butyl ether	BRL	3.3		ug/Kg-dry	259825	1	04/25/2018 21:20	AR
Methylcyclohexane	BRL	3.3		ug/Kg-dry	259825	1	04/25/2018 21:20	AR
Methylene chloride	BRL	13		ug/Kg-dry	259825	1	04/25/2018 21:20	AR
o-Xylene	BRL	3.3		ug/Kg-dry	259825	1	04/25/2018 21:20	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18108-SCS-11-1.5
Project Name: Rheem	Collection Date: 4/18/2018 1:20:00 PM
Lab ID: 1804H65-084	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B			(SW5035)					
Styrene	BRL	3.3		ug/Kg-dry	259825	1	04/25/2018 21:20	AR
Tetrachloroethene	BRL	3.3		ug/Kg-dry	259825	1	04/25/2018 21:20	AR
Toluene	BRL	3.3		ug/Kg-dry	259825	1	04/25/2018 21:20	AR
trans-1,2-Dichloroethene	BRL	3.3		ug/Kg-dry	259825	1	04/25/2018 21:20	AR
trans-1,3-Dichloropropene	BRL	3.3		ug/Kg-dry	259825	1	04/25/2018 21:20	AR
Trichloroethene	45	3.3		ug/Kg-dry	259825	1	04/25/2018 21:20	AR
Trichlorofluoromethane	BRL	3.3		ug/Kg-dry	259825	1	04/25/2018 21:20	AR
Vinyl chloride	BRL	6.7		ug/Kg-dry	259825	1	04/25/2018 21:20	AR
Surr: 4-Bromofluorobenzene	89.7	65-133		%REC	259825	1	04/25/2018 21:20	AR
Surr: Dibromofluoromethane	92.6	75.8-119		%REC	259825	1	04/25/2018 21:20	AR
Surr: Toluene-d8	99.2	78.3-120		%REC	259825	1	04/25/2018 21:20	AR
PERCENT MOISTURE D2216								
Percent Moisture	13.5	0		wt%	R368461	1	04/23/2018 08:15	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18108-SCS-11-4
Project Name: Rheem	Collection Date: 4/18/2018 1:25:00 PM
Lab ID: 1804H65-085	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	4.4		ug/Kg-dry	259825	1	04/25/2018 21:45	AR
1,1,2,2-Tetrachloroethane	BRL	4.4		ug/Kg-dry	259825	1	04/25/2018 21:45	AR
1,1,2-Trichloroethane	BRL	4.4		ug/Kg-dry	259825	1	04/25/2018 21:45	AR
1,1-Dichloroethane	BRL	4.4		ug/Kg-dry	259825	1	04/25/2018 21:45	AR
1,1-Dichloroethene	BRL	4.4		ug/Kg-dry	259825	1	04/25/2018 21:45	AR
1,2,4-Trichlorobenzene	BRL	4.4		ug/Kg-dry	259825	1	04/25/2018 21:45	AR
1,2-Dibromo-3-chloropropane	BRL	4.4		ug/Kg-dry	259825	1	04/25/2018 21:45	AR
1,2-Dibromoethane	BRL	4.4		ug/Kg-dry	259825	1	04/25/2018 21:45	AR
1,2-Dichlorobenzene	BRL	4.4		ug/Kg-dry	259825	1	04/25/2018 21:45	AR
1,2-Dichloroethane	BRL	4.4		ug/Kg-dry	259825	1	04/25/2018 21:45	AR
1,2-Dichloropropane	BRL	4.4		ug/Kg-dry	259825	1	04/25/2018 21:45	AR
1,3-Dichlorobenzene	BRL	4.4		ug/Kg-dry	259825	1	04/25/2018 21:45	AR
1,4-Dichlorobenzene	BRL	4.4		ug/Kg-dry	259825	1	04/25/2018 21:45	AR
2-Butanone	BRL	44		ug/Kg-dry	259825	1	04/25/2018 21:45	AR
2-Hexanone	BRL	8.9		ug/Kg-dry	259825	1	04/25/2018 21:45	AR
4-Methyl-2-pentanone	BRL	8.9		ug/Kg-dry	259825	1	04/25/2018 21:45	AR
Acetone	BRL	89		ug/Kg-dry	259825	1	04/25/2018 21:45	AR
Benzene	BRL	4.4		ug/Kg-dry	259825	1	04/25/2018 21:45	AR
Bromodichloromethane	BRL	4.4		ug/Kg-dry	259825	1	04/25/2018 21:45	AR
Bromoform	BRL	4.4		ug/Kg-dry	259825	1	04/25/2018 21:45	AR
Bromomethane	BRL	4.4		ug/Kg-dry	259825	1	04/25/2018 21:45	AR
Carbon disulfide	BRL	8.9		ug/Kg-dry	259825	1	04/25/2018 21:45	AR
Carbon tetrachloride	BRL	4.4		ug/Kg-dry	259825	1	04/25/2018 21:45	AR
Chlorobenzene	BRL	4.4		ug/Kg-dry	259825	1	04/25/2018 21:45	AR
Chloroethane	BRL	8.9		ug/Kg-dry	259825	1	04/25/2018 21:45	AR
Chloroform	BRL	4.4		ug/Kg-dry	259825	1	04/25/2018 21:45	AR
Chloromethane	BRL	8.9		ug/Kg-dry	259825	1	04/25/2018 21:45	AR
cis-1,2-Dichloroethene	BRL	4.4		ug/Kg-dry	259825	1	04/25/2018 21:45	AR
cis-1,3-Dichloropropene	BRL	4.4		ug/Kg-dry	259825	1	04/25/2018 21:45	AR
Cyclohexane	BRL	4.4		ug/Kg-dry	259825	1	04/25/2018 21:45	AR
Dibromochloromethane	BRL	4.4		ug/Kg-dry	259825	1	04/25/2018 21:45	AR
Dichlorodifluoromethane	BRL	8.9		ug/Kg-dry	259825	1	04/25/2018 21:45	AR
Ethylbenzene	BRL	4.4		ug/Kg-dry	259825	1	04/25/2018 21:45	AR
Freon-113	BRL	8.9		ug/Kg-dry	259825	1	04/25/2018 21:45	AR
Isopropylbenzene	BRL	4.4		ug/Kg-dry	259825	1	04/25/2018 21:45	AR
m,p-Xylene	BRL	4.4		ug/Kg-dry	259825	1	04/25/2018 21:45	AR
Methyl acetate	BRL	4.4		ug/Kg-dry	259825	1	04/25/2018 21:45	AR
Methyl tert-butyl ether	BRL	4.4		ug/Kg-dry	259825	1	04/25/2018 21:45	AR
Methylcyclohexane	BRL	4.4		ug/Kg-dry	259825	1	04/25/2018 21:45	AR
Methylene chloride	BRL	18		ug/Kg-dry	259825	1	04/25/2018 21:45	AR
o-Xylene	BRL	4.4		ug/Kg-dry	259825	1	04/25/2018 21:45	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18108-SCS-11-4
Project Name: Rheem	Collection Date: 4/18/2018 1:25:00 PM
Lab ID: 1804H65-085	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5035)			
Styrene	BRL	4.4		ug/Kg-dry	259825	1	04/25/2018 21:45	AR
Tetrachloroethene	BRL	4.4		ug/Kg-dry	259825	1	04/25/2018 21:45	AR
Toluene	BRL	4.4		ug/Kg-dry	259825	1	04/25/2018 21:45	AR
trans-1,2-Dichloroethene	BRL	4.4		ug/Kg-dry	259825	1	04/25/2018 21:45	AR
trans-1,3-Dichloropropene	BRL	4.4		ug/Kg-dry	259825	1	04/25/2018 21:45	AR
Trichloroethene	7.0	4.4		ug/Kg-dry	259825	1	04/25/2018 21:45	AR
Trichlorofluoromethane	BRL	4.4		ug/Kg-dry	259825	1	04/25/2018 21:45	AR
Vinyl chloride	BRL	8.9		ug/Kg-dry	259825	1	04/25/2018 21:45	AR
Surr: 4-Bromofluorobenzene	92.8	65-133		%REC	259825	1	04/25/2018 21:45	AR
Surr: Dibromofluoromethane	89.8	75.8-119		%REC	259825	1	04/25/2018 21:45	AR
Surr: Toluene-d8	100	78.3-120		%REC	259825	1	04/25/2018 21:45	AR
PERCENT MOISTURE D2216								
Percent Moisture	22.6	0		wt%	R368461	1	04/23/2018 08:15	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18108-SCS-11-8
Project Name: Rheem	Collection Date: 4/18/2018 1:30:00 PM
Lab ID: 1804H65-086	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	4.4		ug/Kg-dry	259825	1	04/25/2018 22:10	AR
1,1,2,2-Tetrachloroethane	BRL	4.4		ug/Kg-dry	259825	1	04/25/2018 22:10	AR
1,1,2-Trichloroethane	BRL	4.4		ug/Kg-dry	259825	1	04/25/2018 22:10	AR
1,1-Dichloroethane	BRL	4.4		ug/Kg-dry	259825	1	04/25/2018 22:10	AR
1,1-Dichloroethene	BRL	4.4		ug/Kg-dry	259825	1	04/25/2018 22:10	AR
1,2,4-Trichlorobenzene	BRL	4.4		ug/Kg-dry	259825	1	04/25/2018 22:10	AR
1,2-Dibromo-3-chloropropane	BRL	4.4		ug/Kg-dry	259825	1	04/25/2018 22:10	AR
1,2-Dibromoethane	BRL	4.4		ug/Kg-dry	259825	1	04/25/2018 22:10	AR
1,2-Dichlorobenzene	BRL	4.4		ug/Kg-dry	259825	1	04/25/2018 22:10	AR
1,2-Dichloroethane	BRL	4.4		ug/Kg-dry	259825	1	04/25/2018 22:10	AR
1,2-Dichloropropane	BRL	4.4		ug/Kg-dry	259825	1	04/25/2018 22:10	AR
1,3-Dichlorobenzene	BRL	4.4		ug/Kg-dry	259825	1	04/25/2018 22:10	AR
1,4-Dichlorobenzene	BRL	4.4		ug/Kg-dry	259825	1	04/25/2018 22:10	AR
2-Butanone	BRL	44		ug/Kg-dry	259825	1	04/25/2018 22:10	AR
2-Hexanone	BRL	8.8		ug/Kg-dry	259825	1	04/25/2018 22:10	AR
4-Methyl-2-pentanone	BRL	8.8		ug/Kg-dry	259825	1	04/25/2018 22:10	AR
Acetone	BRL	88		ug/Kg-dry	259825	1	04/25/2018 22:10	AR
Benzene	BRL	4.4		ug/Kg-dry	259825	1	04/25/2018 22:10	AR
Bromodichloromethane	BRL	4.4		ug/Kg-dry	259825	1	04/25/2018 22:10	AR
Bromoform	BRL	4.4		ug/Kg-dry	259825	1	04/25/2018 22:10	AR
Bromomethane	BRL	4.4		ug/Kg-dry	259825	1	04/25/2018 22:10	AR
Carbon disulfide	BRL	8.8		ug/Kg-dry	259825	1	04/25/2018 22:10	AR
Carbon tetrachloride	BRL	4.4		ug/Kg-dry	259825	1	04/25/2018 22:10	AR
Chlorobenzene	BRL	4.4		ug/Kg-dry	259825	1	04/25/2018 22:10	AR
Chloroethane	BRL	8.8		ug/Kg-dry	259825	1	04/25/2018 22:10	AR
Chloroform	BRL	4.4		ug/Kg-dry	259825	1	04/25/2018 22:10	AR
Chloromethane	BRL	8.8		ug/Kg-dry	259825	1	04/25/2018 22:10	AR
cis-1,2-Dichloroethene	BRL	4.4		ug/Kg-dry	259825	1	04/25/2018 22:10	AR
cis-1,3-Dichloropropene	BRL	4.4		ug/Kg-dry	259825	1	04/25/2018 22:10	AR
Cyclohexane	BRL	4.4		ug/Kg-dry	259825	1	04/25/2018 22:10	AR
Dibromochloromethane	BRL	4.4		ug/Kg-dry	259825	1	04/25/2018 22:10	AR
Dichlorodifluoromethane	BRL	8.8		ug/Kg-dry	259825	1	04/25/2018 22:10	AR
Ethylbenzene	BRL	4.4		ug/Kg-dry	259825	1	04/25/2018 22:10	AR
Freon-113	BRL	8.8		ug/Kg-dry	259825	1	04/25/2018 22:10	AR
Isopropylbenzene	BRL	4.4		ug/Kg-dry	259825	1	04/25/2018 22:10	AR
m,p-Xylene	BRL	4.4		ug/Kg-dry	259825	1	04/25/2018 22:10	AR
Methyl acetate	BRL	4.4		ug/Kg-dry	259825	1	04/25/2018 22:10	AR
Methyl tert-butyl ether	BRL	4.4		ug/Kg-dry	259825	1	04/25/2018 22:10	AR
Methylcyclohexane	BRL	4.4		ug/Kg-dry	259825	1	04/25/2018 22:10	AR
Methylene chloride	BRL	18		ug/Kg-dry	259825	1	04/25/2018 22:10	AR
o-Xylene	BRL	4.4		ug/Kg-dry	259825	1	04/25/2018 22:10	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18108-SCS-11-8
Project Name: Rheem	Collection Date: 4/18/2018 1:30:00 PM
Lab ID: 1804H65-086	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
Styrene	BRL	4.4		ug/Kg-dry	259825	1	04/25/2018 22:10	AR
Tetrachloroethene	BRL	4.4		ug/Kg-dry	259825	1	04/25/2018 22:10	AR
Toluene	BRL	4.4		ug/Kg-dry	259825	1	04/25/2018 22:10	AR
trans-1,2-Dichloroethene	BRL	4.4		ug/Kg-dry	259825	1	04/25/2018 22:10	AR
trans-1,3-Dichloropropene	BRL	4.4		ug/Kg-dry	259825	1	04/25/2018 22:10	AR
Trichloroethene	15	4.4		ug/Kg-dry	259825	1	04/25/2018 22:10	AR
Trichlorofluoromethane	BRL	4.4		ug/Kg-dry	259825	1	04/25/2018 22:10	AR
Vinyl chloride	BRL	8.8		ug/Kg-dry	259825	1	04/25/2018 22:10	AR
Surr: 4-Bromofluorobenzene	92.7	65-133		%REC	259825	1	04/25/2018 22:10	AR
Surr: Dibromofluoromethane	91.8	75.8-119		%REC	259825	1	04/25/2018 22:10	AR
Surr: Toluene-d8	99	78.3-120		%REC	259825	1	04/25/2018 22:10	AR
PERCENT MOISTURE D2216								
Percent Moisture	23.0	0		wt%	R368461	1	04/23/2018 08:15	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18108-SCS-11-13
Project Name: Rheem	Collection Date: 4/18/2018 1:35:00 PM
Lab ID: 1804H65-087	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	3.8		ug/Kg-dry	259825	1	04/25/2018 22:35	AR
1,1,2,2-Tetrachloroethane	BRL	3.8		ug/Kg-dry	259825	1	04/25/2018 22:35	AR
1,1,2-Trichloroethane	BRL	3.8		ug/Kg-dry	259825	1	04/25/2018 22:35	AR
1,1-Dichloroethane	BRL	3.8		ug/Kg-dry	259825	1	04/25/2018 22:35	AR
1,1-Dichloroethene	BRL	3.8		ug/Kg-dry	259825	1	04/25/2018 22:35	AR
1,2,4-Trichlorobenzene	BRL	3.8		ug/Kg-dry	259825	1	04/25/2018 22:35	AR
1,2-Dibromo-3-chloropropane	BRL	3.8		ug/Kg-dry	259825	1	04/25/2018 22:35	AR
1,2-Dibromoethane	BRL	3.8		ug/Kg-dry	259825	1	04/25/2018 22:35	AR
1,2-Dichlorobenzene	BRL	3.8		ug/Kg-dry	259825	1	04/25/2018 22:35	AR
1,2-Dichloroethane	BRL	3.8		ug/Kg-dry	259825	1	04/25/2018 22:35	AR
1,2-Dichloropropane	BRL	3.8		ug/Kg-dry	259825	1	04/25/2018 22:35	AR
1,3-Dichlorobenzene	BRL	3.8		ug/Kg-dry	259825	1	04/25/2018 22:35	AR
1,4-Dichlorobenzene	BRL	3.8		ug/Kg-dry	259825	1	04/25/2018 22:35	AR
2-Butanone	BRL	38		ug/Kg-dry	259825	1	04/25/2018 22:35	AR
2-Hexanone	BRL	7.7		ug/Kg-dry	259825	1	04/25/2018 22:35	AR
4-Methyl-2-pentanone	BRL	7.7		ug/Kg-dry	259825	1	04/25/2018 22:35	AR
Acetone	BRL	77		ug/Kg-dry	259825	1	04/25/2018 22:35	AR
Benzene	BRL	3.8		ug/Kg-dry	259825	1	04/25/2018 22:35	AR
Bromodichloromethane	BRL	3.8		ug/Kg-dry	259825	1	04/25/2018 22:35	AR
Bromoform	BRL	3.8		ug/Kg-dry	259825	1	04/25/2018 22:35	AR
Bromomethane	BRL	3.8		ug/Kg-dry	259825	1	04/25/2018 22:35	AR
Carbon disulfide	BRL	7.7		ug/Kg-dry	259825	1	04/25/2018 22:35	AR
Carbon tetrachloride	BRL	3.8		ug/Kg-dry	259825	1	04/25/2018 22:35	AR
Chlorobenzene	BRL	3.8		ug/Kg-dry	259825	1	04/25/2018 22:35	AR
Chloroethane	BRL	7.7		ug/Kg-dry	259825	1	04/25/2018 22:35	AR
Chloroform	BRL	3.8		ug/Kg-dry	259825	1	04/25/2018 22:35	AR
Chloromethane	BRL	7.7		ug/Kg-dry	259825	1	04/25/2018 22:35	AR
cis-1,2-Dichloroethene	BRL	3.8		ug/Kg-dry	259825	1	04/25/2018 22:35	AR
cis-1,3-Dichloropropene	BRL	3.8		ug/Kg-dry	259825	1	04/25/2018 22:35	AR
Cyclohexane	BRL	3.8		ug/Kg-dry	259825	1	04/25/2018 22:35	AR
Dibromochloromethane	BRL	3.8		ug/Kg-dry	259825	1	04/25/2018 22:35	AR
Dichlorodifluoromethane	BRL	7.7		ug/Kg-dry	259825	1	04/25/2018 22:35	AR
Ethylbenzene	BRL	3.8		ug/Kg-dry	259825	1	04/25/2018 22:35	AR
Freon-113	BRL	7.7		ug/Kg-dry	259825	1	04/25/2018 22:35	AR
Isopropylbenzene	BRL	3.8		ug/Kg-dry	259825	1	04/25/2018 22:35	AR
m,p-Xylene	BRL	3.8		ug/Kg-dry	259825	1	04/25/2018 22:35	AR
Methyl acetate	BRL	3.8		ug/Kg-dry	259825	1	04/25/2018 22:35	AR
Methyl tert-butyl ether	BRL	3.8		ug/Kg-dry	259825	1	04/25/2018 22:35	AR
Methylcyclohexane	BRL	3.8		ug/Kg-dry	259825	1	04/25/2018 22:35	AR
Methylene chloride	BRL	15		ug/Kg-dry	259825	1	04/25/2018 22:35	AR
o-Xylene	BRL	3.8		ug/Kg-dry	259825	1	04/25/2018 22:35	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18108-SCS-11-13
Project Name: Rheem	Collection Date: 4/18/2018 1:35:00 PM
Lab ID: 1804H65-087	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5035)			
Styrene	BRL	3.8		ug/Kg-dry	259825	1	04/25/2018 22:35	AR
Tetrachloroethene	BRL	3.8		ug/Kg-dry	259825	1	04/25/2018 22:35	AR
Toluene	BRL	3.8		ug/Kg-dry	259825	1	04/25/2018 22:35	AR
trans-1,2-Dichloroethene	BRL	3.8		ug/Kg-dry	259825	1	04/25/2018 22:35	AR
trans-1,3-Dichloropropene	BRL	3.8		ug/Kg-dry	259825	1	04/25/2018 22:35	AR
Trichloroethene	17	3.8		ug/Kg-dry	259825	1	04/25/2018 22:35	AR
Trichlorofluoromethane	BRL	3.8		ug/Kg-dry	259825	1	04/25/2018 22:35	AR
Vinyl chloride	BRL	7.7		ug/Kg-dry	259825	1	04/25/2018 22:35	AR
Surr: 4-Bromofluorobenzene	92.6	65-133		%REC	259825	1	04/25/2018 22:35	AR
Surr: Dibromofluoromethane	91.9	75.8-119		%REC	259825	1	04/25/2018 22:35	AR
Surr: Toluene-d8	98.8	78.3-120		%REC	259825	1	04/25/2018 22:35	AR
PERCENT MOISTURE D2216								
Percent Moisture	23.4	0		wt%	R368461	1	04/23/2018 08:15	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18108-SCS-12-0.5
Project Name: Rheem	Collection Date: 4/18/2018 1:50:00 PM
Lab ID: 1804H65-088	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	4.0		ug/Kg-dry	259825	1	04/26/2018 23:51	AR
1,1,2,2-Tetrachloroethane	BRL	4.0		ug/Kg-dry	259825	1	04/26/2018 23:51	AR
1,1,2-Trichloroethane	BRL	4.0		ug/Kg-dry	259825	1	04/26/2018 23:51	AR
1,1-Dichloroethane	BRL	4.0		ug/Kg-dry	259825	1	04/26/2018 23:51	AR
1,1-Dichloroethene	BRL	4.0		ug/Kg-dry	259825	1	04/26/2018 23:51	AR
1,2,4-Trichlorobenzene	BRL	4.0		ug/Kg-dry	259825	1	04/26/2018 23:51	AR
1,2-Dibromo-3-chloropropane	BRL	4.0		ug/Kg-dry	259825	1	04/26/2018 23:51	AR
1,2-Dibromoethane	BRL	4.0		ug/Kg-dry	259825	1	04/26/2018 23:51	AR
1,2-Dichlorobenzene	BRL	4.0		ug/Kg-dry	259825	1	04/26/2018 23:51	AR
1,2-Dichloroethane	BRL	4.0		ug/Kg-dry	259825	1	04/26/2018 23:51	AR
1,2-Dichloropropane	BRL	4.0		ug/Kg-dry	259825	1	04/26/2018 23:51	AR
1,3-Dichlorobenzene	BRL	4.0		ug/Kg-dry	259825	1	04/26/2018 23:51	AR
1,4-Dichlorobenzene	BRL	4.0		ug/Kg-dry	259825	1	04/26/2018 23:51	AR
2-Butanone	BRL	40		ug/Kg-dry	259825	1	04/26/2018 23:51	AR
2-Hexanone	BRL	8.0		ug/Kg-dry	259825	1	04/26/2018 23:51	AR
4-Methyl-2-pentanone	BRL	8.0		ug/Kg-dry	259825	1	04/26/2018 23:51	AR
Acetone	BRL	80		ug/Kg-dry	259825	1	04/26/2018 23:51	AR
Benzene	BRL	4.0		ug/Kg-dry	259825	1	04/26/2018 23:51	AR
Bromodichloromethane	BRL	4.0		ug/Kg-dry	259825	1	04/26/2018 23:51	AR
Bromoform	BRL	4.0		ug/Kg-dry	259825	1	04/26/2018 23:51	AR
Bromomethane	BRL	4.0		ug/Kg-dry	259825	1	04/26/2018 23:51	AR
Carbon disulfide	BRL	8.0		ug/Kg-dry	259825	1	04/26/2018 23:51	AR
Carbon tetrachloride	BRL	4.0		ug/Kg-dry	259825	1	04/26/2018 23:51	AR
Chlorobenzene	BRL	4.0		ug/Kg-dry	259825	1	04/26/2018 23:51	AR
Chloroethane	BRL	8.0		ug/Kg-dry	259825	1	04/26/2018 23:51	AR
Chloroform	BRL	4.0		ug/Kg-dry	259825	1	04/26/2018 23:51	AR
Chloromethane	BRL	8.0		ug/Kg-dry	259825	1	04/26/2018 23:51	AR
cis-1,2-Dichloroethene	BRL	4.0		ug/Kg-dry	259825	1	04/26/2018 23:51	AR
cis-1,3-Dichloropropene	BRL	4.0		ug/Kg-dry	259825	1	04/26/2018 23:51	AR
Cyclohexane	BRL	4.0		ug/Kg-dry	259825	1	04/26/2018 23:51	AR
Dibromochloromethane	BRL	4.0		ug/Kg-dry	259825	1	04/26/2018 23:51	AR
Dichlorodifluoromethane	BRL	8.0		ug/Kg-dry	259825	1	04/26/2018 23:51	AR
Ethylbenzene	BRL	4.0		ug/Kg-dry	259825	1	04/26/2018 23:51	AR
Freon-113	BRL	8.0		ug/Kg-dry	259825	1	04/26/2018 23:51	AR
Isopropylbenzene	BRL	4.0		ug/Kg-dry	259825	1	04/26/2018 23:51	AR
m,p-Xylene	BRL	4.0		ug/Kg-dry	259825	1	04/26/2018 23:51	AR
Methyl acetate	BRL	4.0		ug/Kg-dry	259825	1	04/26/2018 23:51	AR
Methyl tert-butyl ether	BRL	4.0		ug/Kg-dry	259825	1	04/26/2018 23:51	AR
Methylcyclohexane	BRL	4.0		ug/Kg-dry	259825	1	04/26/2018 23:51	AR
Methylene chloride	BRL	16		ug/Kg-dry	259825	1	04/26/2018 23:51	AR
o-Xylene	BRL	4.0		ug/Kg-dry	259825	1	04/26/2018 23:51	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18108-SCS-12-0.5
Project Name: Rheem	Collection Date: 4/18/2018 1:50:00 PM
Lab ID: 1804H65-088	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B					(SW5035)			
Styrene	BRL	4.0		ug/Kg-dry	259825	1	04/26/2018 23:51	AR
Tetrachloroethene	BRL	4.0		ug/Kg-dry	259825	1	04/26/2018 23:51	AR
Toluene	BRL	4.0		ug/Kg-dry	259825	1	04/26/2018 23:51	AR
trans-1,2-Dichloroethene	BRL	4.0		ug/Kg-dry	259825	1	04/26/2018 23:51	AR
trans-1,3-Dichloropropene	BRL	4.0		ug/Kg-dry	259825	1	04/26/2018 23:51	AR
Trichloroethene	11	4.0		ug/Kg-dry	259825	1	04/26/2018 23:51	AR
Trichlorofluoromethane	BRL	4.0		ug/Kg-dry	259825	1	04/26/2018 23:51	AR
Vinyl chloride	BRL	8.0		ug/Kg-dry	259825	1	04/26/2018 23:51	AR
Surr: 4-Bromofluorobenzene	93.5	65-133		%REC	259825	1	04/26/2018 23:51	AR
Surr: Dibromofluoromethane	88.9	75.8-119		%REC	259825	1	04/26/2018 23:51	AR
Surr: Toluene-d8	99.2	78.3-120		%REC	259825	1	04/26/2018 23:51	AR
PERCENT MOISTURE D2216								
Percent Moisture	17.5	0		wt%	R368461	1	04/23/2018 08:15	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18108-SCS-12-1.5
Project Name: Rheem	Collection Date: 4/18/2018 1:55:00 PM
Lab ID: 1804H65-089	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	3.2		ug/Kg-dry	259825	1	04/27/2018 00:16	AR
1,1,2,2-Tetrachloroethane	BRL	3.2		ug/Kg-dry	259825	1	04/27/2018 00:16	AR
1,1,2-Trichloroethane	BRL	3.2		ug/Kg-dry	259825	1	04/27/2018 00:16	AR
1,1-Dichloroethane	BRL	3.2		ug/Kg-dry	259825	1	04/27/2018 00:16	AR
1,1-Dichloroethene	BRL	3.2		ug/Kg-dry	259825	1	04/27/2018 00:16	AR
1,2,4-Trichlorobenzene	BRL	3.2		ug/Kg-dry	259825	1	04/27/2018 00:16	AR
1,2-Dibromo-3-chloropropane	BRL	3.2		ug/Kg-dry	259825	1	04/27/2018 00:16	AR
1,2-Dibromoethane	BRL	3.2		ug/Kg-dry	259825	1	04/27/2018 00:16	AR
1,2-Dichlorobenzene	BRL	3.2		ug/Kg-dry	259825	1	04/27/2018 00:16	AR
1,2-Dichloroethane	BRL	3.2		ug/Kg-dry	259825	1	04/27/2018 00:16	AR
1,2-Dichloropropane	BRL	3.2		ug/Kg-dry	259825	1	04/27/2018 00:16	AR
1,3-Dichlorobenzene	BRL	3.2		ug/Kg-dry	259825	1	04/27/2018 00:16	AR
1,4-Dichlorobenzene	BRL	3.2		ug/Kg-dry	259825	1	04/27/2018 00:16	AR
2-Butanone	BRL	32		ug/Kg-dry	259825	1	04/27/2018 00:16	AR
2-Hexanone	BRL	6.3		ug/Kg-dry	259825	1	04/27/2018 00:16	AR
4-Methyl-2-pentanone	BRL	6.3		ug/Kg-dry	259825	1	04/27/2018 00:16	AR
Acetone	88	63		ug/Kg-dry	259825	1	04/27/2018 00:16	AR
Benzene	BRL	3.2		ug/Kg-dry	259825	1	04/27/2018 00:16	AR
Bromodichloromethane	BRL	3.2		ug/Kg-dry	259825	1	04/27/2018 00:16	AR
Bromoform	BRL	3.2		ug/Kg-dry	259825	1	04/27/2018 00:16	AR
Bromomethane	BRL	3.2		ug/Kg-dry	259825	1	04/27/2018 00:16	AR
Carbon disulfide	BRL	6.3		ug/Kg-dry	259825	1	04/27/2018 00:16	AR
Carbon tetrachloride	BRL	3.2		ug/Kg-dry	259825	1	04/27/2018 00:16	AR
Chlorobenzene	BRL	3.2		ug/Kg-dry	259825	1	04/27/2018 00:16	AR
Chloroethane	BRL	6.3		ug/Kg-dry	259825	1	04/27/2018 00:16	AR
Chloroform	BRL	3.2		ug/Kg-dry	259825	1	04/27/2018 00:16	AR
Chloromethane	BRL	6.3		ug/Kg-dry	259825	1	04/27/2018 00:16	AR
cis-1,2-Dichloroethene	BRL	3.2		ug/Kg-dry	259825	1	04/27/2018 00:16	AR
cis-1,3-Dichloropropene	BRL	3.2		ug/Kg-dry	259825	1	04/27/2018 00:16	AR
Cyclohexane	BRL	3.2		ug/Kg-dry	259825	1	04/27/2018 00:16	AR
Dibromochloromethane	BRL	3.2		ug/Kg-dry	259825	1	04/27/2018 00:16	AR
Dichlorodifluoromethane	BRL	6.3		ug/Kg-dry	259825	1	04/27/2018 00:16	AR
Ethylbenzene	BRL	3.2		ug/Kg-dry	259825	1	04/27/2018 00:16	AR
Freon-113	BRL	6.3		ug/Kg-dry	259825	1	04/27/2018 00:16	AR
Isopropylbenzene	BRL	3.2		ug/Kg-dry	259825	1	04/27/2018 00:16	AR
m,p-Xylene	BRL	3.2		ug/Kg-dry	259825	1	04/27/2018 00:16	AR
Methyl acetate	BRL	3.2		ug/Kg-dry	259825	1	04/27/2018 00:16	AR
Methyl tert-butyl ether	BRL	3.2		ug/Kg-dry	259825	1	04/27/2018 00:16	AR
Methylcyclohexane	BRL	3.2		ug/Kg-dry	259825	1	04/27/2018 00:16	AR
Methylene chloride	BRL	13		ug/Kg-dry	259825	1	04/27/2018 00:16	AR
o-Xylene	BRL	3.2		ug/Kg-dry	259825	1	04/27/2018 00:16	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18108-SCS-12-1.5
Project Name: Rheem	Collection Date: 4/18/2018 1:55:00 PM
Lab ID: 1804H65-089	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B			(SW5035)					
Styrene	BRL	3.2		ug/Kg-dry	259825	1	04/27/2018 00:16	AR
Tetrachloroethene	BRL	3.2		ug/Kg-dry	259825	1	04/27/2018 00:16	AR
Toluene	BRL	3.2		ug/Kg-dry	259825	1	04/27/2018 00:16	AR
trans-1,2-Dichloroethene	BRL	3.2		ug/Kg-dry	259825	1	04/27/2018 00:16	AR
trans-1,3-Dichloropropene	BRL	3.2		ug/Kg-dry	259825	1	04/27/2018 00:16	AR
Trichloroethene	49	3.2		ug/Kg-dry	259825	1	04/27/2018 00:16	AR
Trichlorofluoromethane	BRL	3.2		ug/Kg-dry	259825	1	04/27/2018 00:16	AR
Vinyl chloride	BRL	6.3		ug/Kg-dry	259825	1	04/27/2018 00:16	AR
Surr: 4-Bromofluorobenzene	82.7	65-133		%REC	259825	1	04/27/2018 00:16	AR
Surr: Dibromofluoromethane	92	75.8-119		%REC	259825	1	04/27/2018 00:16	AR
Surr: Toluene-d8	97	78.3-120		%REC	259825	1	04/27/2018 00:16	AR
PERCENT MOISTURE D2216								
Percent Moisture	18.1	0		wt%	R368461	1	04/23/2018 08:15	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18108-SCS-12-4
Project Name: Rheem	Collection Date: 4/18/2018 2:00:00 PM
Lab ID: 1804H65-090	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	4.2		ug/Kg-dry	259825	1	04/27/2018 00:41	AR
1,1,2,2-Tetrachloroethane	BRL	4.2		ug/Kg-dry	259825	1	04/27/2018 00:41	AR
1,1,2-Trichloroethane	BRL	4.2		ug/Kg-dry	259825	1	04/27/2018 00:41	AR
1,1-Dichloroethane	BRL	4.2		ug/Kg-dry	259825	1	04/27/2018 00:41	AR
1,1-Dichloroethene	BRL	4.2		ug/Kg-dry	259825	1	04/27/2018 00:41	AR
1,2,4-Trichlorobenzene	BRL	4.2		ug/Kg-dry	259825	1	04/27/2018 00:41	AR
1,2-Dibromo-3-chloropropane	BRL	4.2		ug/Kg-dry	259825	1	04/27/2018 00:41	AR
1,2-Dibromoethane	BRL	4.2		ug/Kg-dry	259825	1	04/27/2018 00:41	AR
1,2-Dichlorobenzene	BRL	4.2		ug/Kg-dry	259825	1	04/27/2018 00:41	AR
1,2-Dichloroethane	BRL	4.2		ug/Kg-dry	259825	1	04/27/2018 00:41	AR
1,2-Dichloropropane	BRL	4.2		ug/Kg-dry	259825	1	04/27/2018 00:41	AR
1,3-Dichlorobenzene	BRL	4.2		ug/Kg-dry	259825	1	04/27/2018 00:41	AR
1,4-Dichlorobenzene	BRL	4.2		ug/Kg-dry	259825	1	04/27/2018 00:41	AR
2-Butanone	BRL	4.2		ug/Kg-dry	259825	1	04/27/2018 00:41	AR
2-Hexanone	BRL	8.5		ug/Kg-dry	259825	1	04/27/2018 00:41	AR
4-Methyl-2-pentanone	BRL	8.5		ug/Kg-dry	259825	1	04/27/2018 00:41	AR
Acetone	BRL	8.5		ug/Kg-dry	259825	1	04/27/2018 00:41	AR
Benzene	BRL	4.2		ug/Kg-dry	259825	1	04/27/2018 00:41	AR
Bromodichloromethane	BRL	4.2		ug/Kg-dry	259825	1	04/27/2018 00:41	AR
Bromoform	BRL	4.2		ug/Kg-dry	259825	1	04/27/2018 00:41	AR
Bromomethane	BRL	4.2		ug/Kg-dry	259825	1	04/27/2018 00:41	AR
Carbon disulfide	BRL	8.5		ug/Kg-dry	259825	1	04/27/2018 00:41	AR
Carbon tetrachloride	BRL	4.2		ug/Kg-dry	259825	1	04/27/2018 00:41	AR
Chlorobenzene	BRL	4.2		ug/Kg-dry	259825	1	04/27/2018 00:41	AR
Chloroethane	BRL	8.5		ug/Kg-dry	259825	1	04/27/2018 00:41	AR
Chloroform	BRL	4.2		ug/Kg-dry	259825	1	04/27/2018 00:41	AR
Chloromethane	BRL	8.5		ug/Kg-dry	259825	1	04/27/2018 00:41	AR
cis-1,2-Dichloroethene	BRL	4.2		ug/Kg-dry	259825	1	04/27/2018 00:41	AR
cis-1,3-Dichloropropene	BRL	4.2		ug/Kg-dry	259825	1	04/27/2018 00:41	AR
Cyclohexane	BRL	4.2		ug/Kg-dry	259825	1	04/27/2018 00:41	AR
Dibromochloromethane	BRL	4.2		ug/Kg-dry	259825	1	04/27/2018 00:41	AR
Dichlorodifluoromethane	BRL	8.5		ug/Kg-dry	259825	1	04/27/2018 00:41	AR
Ethylbenzene	BRL	4.2		ug/Kg-dry	259825	1	04/27/2018 00:41	AR
Freon-113	BRL	8.5		ug/Kg-dry	259825	1	04/27/2018 00:41	AR
Isopropylbenzene	BRL	4.2		ug/Kg-dry	259825	1	04/27/2018 00:41	AR
m,p-Xylene	BRL	4.2		ug/Kg-dry	259825	1	04/27/2018 00:41	AR
Methyl acetate	BRL	4.2		ug/Kg-dry	259825	1	04/27/2018 00:41	AR
Methyl tert-butyl ether	BRL	4.2		ug/Kg-dry	259825	1	04/27/2018 00:41	AR
Methylcyclohexane	BRL	4.2		ug/Kg-dry	259825	1	04/27/2018 00:41	AR
Methylene chloride	BRL	17		ug/Kg-dry	259825	1	04/27/2018 00:41	AR
o-Xylene	BRL	4.2		ug/Kg-dry	259825	1	04/27/2018 00:41	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18108-SCS-12-4
Project Name: Rheem	Collection Date: 4/18/2018 2:00:00 PM
Lab ID: 1804H65-090	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B			(SW5035)					
Styrene	BRL	4.2		ug/Kg-dry	259825	1	04/27/2018 00:41	AR
Tetrachloroethene	BRL	4.2		ug/Kg-dry	259825	1	04/27/2018 00:41	AR
Toluene	BRL	4.2		ug/Kg-dry	259825	1	04/27/2018 00:41	AR
trans-1,2-Dichloroethene	BRL	4.2		ug/Kg-dry	259825	1	04/27/2018 00:41	AR
trans-1,3-Dichloropropene	BRL	4.2		ug/Kg-dry	259825	1	04/27/2018 00:41	AR
Trichloroethene	BRL	4.2		ug/Kg-dry	259825	1	04/27/2018 00:41	AR
Trichlorofluoromethane	BRL	4.2		ug/Kg-dry	259825	1	04/27/2018 00:41	AR
Vinyl chloride	BRL	8.5		ug/Kg-dry	259825	1	04/27/2018 00:41	AR
Surr: 4-Bromofluorobenzene	94.3	65-133		%REC	259825	1	04/27/2018 00:41	AR
Surr: Dibromofluoromethane	90.6	75.8-119		%REC	259825	1	04/27/2018 00:41	AR
Surr: Toluene-d8	100	78.3-120		%REC	259825	1	04/27/2018 00:41	AR
PERCENT MOISTURE D2216								
Percent Moisture	25.0	0		wt%	R368461	1	04/23/2018 08:15	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18108-SCS-12-8
Project Name: Rheem	Collection Date: 4/18/2018 2:05:00 PM
Lab ID: 1804H65-091	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	3.8		ug/Kg-dry	259825	1	04/27/2018 01:05	AR
1,1,2,2-Tetrachloroethane	BRL	3.8		ug/Kg-dry	259825	1	04/27/2018 01:05	AR
1,1,2-Trichloroethane	BRL	3.8		ug/Kg-dry	259825	1	04/27/2018 01:05	AR
1,1-Dichloroethane	BRL	3.8		ug/Kg-dry	259825	1	04/27/2018 01:05	AR
1,1-Dichloroethene	BRL	3.8		ug/Kg-dry	259825	1	04/27/2018 01:05	AR
1,2,4-Trichlorobenzene	BRL	3.8		ug/Kg-dry	259825	1	04/27/2018 01:05	AR
1,2-Dibromo-3-chloropropane	BRL	3.8		ug/Kg-dry	259825	1	04/27/2018 01:05	AR
1,2-Dibromoethane	BRL	3.8		ug/Kg-dry	259825	1	04/27/2018 01:05	AR
1,2-Dichlorobenzene	BRL	3.8		ug/Kg-dry	259825	1	04/27/2018 01:05	AR
1,2-Dichloroethane	BRL	3.8		ug/Kg-dry	259825	1	04/27/2018 01:05	AR
1,2-Dichloropropane	BRL	3.8		ug/Kg-dry	259825	1	04/27/2018 01:05	AR
1,3-Dichlorobenzene	BRL	3.8		ug/Kg-dry	259825	1	04/27/2018 01:05	AR
1,4-Dichlorobenzene	BRL	3.8		ug/Kg-dry	259825	1	04/27/2018 01:05	AR
2-Butanone	BRL	38		ug/Kg-dry	259825	1	04/27/2018 01:05	AR
2-Hexanone	BRL	7.6		ug/Kg-dry	259825	1	04/27/2018 01:05	AR
4-Methyl-2-pentanone	BRL	7.6		ug/Kg-dry	259825	1	04/27/2018 01:05	AR
Acetone	BRL	76		ug/Kg-dry	259825	1	04/27/2018 01:05	AR
Benzene	BRL	3.8		ug/Kg-dry	259825	1	04/27/2018 01:05	AR
Bromodichloromethane	BRL	3.8		ug/Kg-dry	259825	1	04/27/2018 01:05	AR
Bromoform	BRL	3.8		ug/Kg-dry	259825	1	04/27/2018 01:05	AR
Bromomethane	BRL	3.8		ug/Kg-dry	259825	1	04/27/2018 01:05	AR
Carbon disulfide	BRL	7.6		ug/Kg-dry	259825	1	04/27/2018 01:05	AR
Carbon tetrachloride	BRL	3.8		ug/Kg-dry	259825	1	04/27/2018 01:05	AR
Chlorobenzene	BRL	3.8		ug/Kg-dry	259825	1	04/27/2018 01:05	AR
Chloroethane	BRL	7.6		ug/Kg-dry	259825	1	04/27/2018 01:05	AR
Chloroform	BRL	3.8		ug/Kg-dry	259825	1	04/27/2018 01:05	AR
Chloromethane	BRL	7.6		ug/Kg-dry	259825	1	04/27/2018 01:05	AR
cis-1,2-Dichloroethene	BRL	3.8		ug/Kg-dry	259825	1	04/27/2018 01:05	AR
cis-1,3-Dichloropropene	BRL	3.8		ug/Kg-dry	259825	1	04/27/2018 01:05	AR
Cyclohexane	BRL	3.8		ug/Kg-dry	259825	1	04/27/2018 01:05	AR
Dibromochloromethane	BRL	3.8		ug/Kg-dry	259825	1	04/27/2018 01:05	AR
Dichlorodifluoromethane	BRL	7.6		ug/Kg-dry	259825	1	04/27/2018 01:05	AR
Ethylbenzene	BRL	3.8		ug/Kg-dry	259825	1	04/27/2018 01:05	AR
Freon-113	BRL	7.6		ug/Kg-dry	259825	1	04/27/2018 01:05	AR
Isopropylbenzene	BRL	3.8		ug/Kg-dry	259825	1	04/27/2018 01:05	AR
m,p-Xylene	BRL	3.8		ug/Kg-dry	259825	1	04/27/2018 01:05	AR
Methyl acetate	BRL	3.8		ug/Kg-dry	259825	1	04/27/2018 01:05	AR
Methyl tert-butyl ether	BRL	3.8		ug/Kg-dry	259825	1	04/27/2018 01:05	AR
Methylcyclohexane	BRL	3.8		ug/Kg-dry	259825	1	04/27/2018 01:05	AR
Methylene chloride	BRL	15		ug/Kg-dry	259825	1	04/27/2018 01:05	AR
o-Xylene	BRL	3.8		ug/Kg-dry	259825	1	04/27/2018 01:05	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18108-SCS-12-8
Project Name: Rheem	Collection Date: 4/18/2018 2:05:00 PM
Lab ID: 1804H65-091	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
Styrene	BRL	3.8		ug/Kg-dry	259825	1	04/27/2018 01:05	AR
Tetrachloroethene	BRL	3.8		ug/Kg-dry	259825	1	04/27/2018 01:05	AR
Toluene	BRL	3.8		ug/Kg-dry	259825	1	04/27/2018 01:05	AR
trans-1,2-Dichloroethene	BRL	3.8		ug/Kg-dry	259825	1	04/27/2018 01:05	AR
trans-1,3-Dichloropropene	BRL	3.8		ug/Kg-dry	259825	1	04/27/2018 01:05	AR
Trichloroethene	11	3.8		ug/Kg-dry	259825	1	04/27/2018 01:05	AR
Trichlorofluoromethane	BRL	3.8		ug/Kg-dry	259825	1	04/27/2018 01:05	AR
Vinyl chloride	BRL	7.6		ug/Kg-dry	259825	1	04/27/2018 01:05	AR
Surr: 4-Bromofluorobenzene	101	65-133		%REC	259825	1	04/27/2018 01:05	AR
Surr: Dibromofluoromethane	88.2	75.8-119		%REC	259825	1	04/27/2018 01:05	AR
Surr: Toluene-d8	102	78.3-120		%REC	259825	1	04/27/2018 01:05	AR
PERCENT MOISTURE D2216								
Percent Moisture	20.1	0		wt%	R368461	1	04/23/2018 08:15	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18108-SCS-12-13
Project Name: Rheem	Collection Date: 4/18/2018 2:10:00 PM
Lab ID: 1804H65-092	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	4.4		ug/Kg-dry	259825	1	04/27/2018 01:30	AR
1,1,2,2-Tetrachloroethane	BRL	4.4		ug/Kg-dry	259825	1	04/27/2018 01:30	AR
1,1,2-Trichloroethane	BRL	4.4		ug/Kg-dry	259825	1	04/27/2018 01:30	AR
1,1-Dichloroethane	BRL	4.4		ug/Kg-dry	259825	1	04/27/2018 01:30	AR
1,1-Dichloroethene	BRL	4.4		ug/Kg-dry	259825	1	04/27/2018 01:30	AR
1,2,4-Trichlorobenzene	BRL	4.4		ug/Kg-dry	259825	1	04/27/2018 01:30	AR
1,2-Dibromo-3-chloropropane	BRL	4.4		ug/Kg-dry	259825	1	04/27/2018 01:30	AR
1,2-Dibromoethane	BRL	4.4		ug/Kg-dry	259825	1	04/27/2018 01:30	AR
1,2-Dichlorobenzene	BRL	4.4		ug/Kg-dry	259825	1	04/27/2018 01:30	AR
1,2-Dichloroethane	BRL	4.4		ug/Kg-dry	259825	1	04/27/2018 01:30	AR
1,2-Dichloropropane	BRL	4.4		ug/Kg-dry	259825	1	04/27/2018 01:30	AR
1,3-Dichlorobenzene	BRL	4.4		ug/Kg-dry	259825	1	04/27/2018 01:30	AR
1,4-Dichlorobenzene	BRL	4.4		ug/Kg-dry	259825	1	04/27/2018 01:30	AR
2-Butanone	BRL	44		ug/Kg-dry	259825	1	04/27/2018 01:30	AR
2-Hexanone	BRL	8.7		ug/Kg-dry	259825	1	04/27/2018 01:30	AR
4-Methyl-2-pentanone	BRL	8.7		ug/Kg-dry	259825	1	04/27/2018 01:30	AR
Acetone	BRL	87		ug/Kg-dry	259825	1	04/27/2018 01:30	AR
Benzene	BRL	4.4		ug/Kg-dry	259825	1	04/27/2018 01:30	AR
Bromodichloromethane	BRL	4.4		ug/Kg-dry	259825	1	04/27/2018 01:30	AR
Bromoform	BRL	4.4		ug/Kg-dry	259825	1	04/27/2018 01:30	AR
Bromomethane	BRL	4.4		ug/Kg-dry	259825	1	04/27/2018 01:30	AR
Carbon disulfide	BRL	8.7		ug/Kg-dry	259825	1	04/27/2018 01:30	AR
Carbon tetrachloride	BRL	4.4		ug/Kg-dry	259825	1	04/27/2018 01:30	AR
Chlorobenzene	BRL	4.4		ug/Kg-dry	259825	1	04/27/2018 01:30	AR
Chloroethane	BRL	8.7		ug/Kg-dry	259825	1	04/27/2018 01:30	AR
Chloroform	BRL	4.4		ug/Kg-dry	259825	1	04/27/2018 01:30	AR
Chloromethane	BRL	8.7		ug/Kg-dry	259825	1	04/27/2018 01:30	AR
cis-1,2-Dichloroethene	BRL	4.4		ug/Kg-dry	259825	1	04/27/2018 01:30	AR
cis-1,3-Dichloropropene	BRL	4.4		ug/Kg-dry	259825	1	04/27/2018 01:30	AR
Cyclohexane	BRL	4.4		ug/Kg-dry	259825	1	04/27/2018 01:30	AR
Dibromochloromethane	BRL	4.4		ug/Kg-dry	259825	1	04/27/2018 01:30	AR
Dichlorodifluoromethane	BRL	8.7		ug/Kg-dry	259825	1	04/27/2018 01:30	AR
Ethylbenzene	BRL	4.4		ug/Kg-dry	259825	1	04/27/2018 01:30	AR
Freon-113	BRL	8.7		ug/Kg-dry	259825	1	04/27/2018 01:30	AR
Isopropylbenzene	BRL	4.4		ug/Kg-dry	259825	1	04/27/2018 01:30	AR
m,p-Xylene	BRL	4.4		ug/Kg-dry	259825	1	04/27/2018 01:30	AR
Methyl acetate	BRL	4.4		ug/Kg-dry	259825	1	04/27/2018 01:30	AR
Methyl tert-butyl ether	BRL	4.4		ug/Kg-dry	259825	1	04/27/2018 01:30	AR
Methylcyclohexane	BRL	4.4		ug/Kg-dry	259825	1	04/27/2018 01:30	AR
Methylene chloride	BRL	17		ug/Kg-dry	259825	1	04/27/2018 01:30	AR
o-Xylene	BRL	4.4		ug/Kg-dry	259825	1	04/27/2018 01:30	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18108-SCS-12-13
Project Name: Rheem	Collection Date: 4/18/2018 2:10:00 PM
Lab ID: 1804H65-092	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
Styrene	BRL	4.4		ug/Kg-dry	259825	1	04/27/2018 01:30	AR
Tetrachloroethene	BRL	4.4		ug/Kg-dry	259825	1	04/27/2018 01:30	AR
Toluene	BRL	4.4		ug/Kg-dry	259825	1	04/27/2018 01:30	AR
trans-1,2-Dichloroethene	BRL	4.4		ug/Kg-dry	259825	1	04/27/2018 01:30	AR
trans-1,3-Dichloropropene	BRL	4.4		ug/Kg-dry	259825	1	04/27/2018 01:30	AR
Trichloroethene	BRL	4.4		ug/Kg-dry	259825	1	04/27/2018 01:30	AR
Trichlorofluoromethane	BRL	4.4		ug/Kg-dry	259825	1	04/27/2018 01:30	AR
Vinyl chloride	BRL	8.7		ug/Kg-dry	259825	1	04/27/2018 01:30	AR
Surr: 4-Bromofluorobenzene	92	65-133		%REC	259825	1	04/27/2018 01:30	AR
Surr: Dibromofluoromethane	91.3	75.8-119		%REC	259825	1	04/27/2018 01:30	AR
Surr: Toluene-d8	101	78.3-120		%REC	259825	1	04/27/2018 01:30	AR
PERCENT MOISTURE D2216								
Percent Moisture	31.3	0		wt%	R368461	1	04/23/2018 08:15	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18108-SCS-DUP
Project Name: Rheem	Collection Date: 4/18/2018 12:00:00 PM
Lab ID: 1804H65-093	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5035)								
1,1,1-Trichloroethane	BRL	3.9		ug/Kg-dry	259825	1	04/27/2018 01:55	AR
1,1,2,2-Tetrachloroethane	BRL	3.9		ug/Kg-dry	259825	1	04/27/2018 01:55	AR
1,1,2-Trichloroethane	BRL	3.9		ug/Kg-dry	259825	1	04/27/2018 01:55	AR
1,1-Dichloroethane	BRL	3.9		ug/Kg-dry	259825	1	04/27/2018 01:55	AR
1,1-Dichloroethene	BRL	3.9		ug/Kg-dry	259825	1	04/27/2018 01:55	AR
1,2,4-Trichlorobenzene	BRL	3.9		ug/Kg-dry	259825	1	04/27/2018 01:55	AR
1,2-Dibromo-3-chloropropane	BRL	3.9		ug/Kg-dry	259825	1	04/27/2018 01:55	AR
1,2-Dibromoethane	BRL	3.9		ug/Kg-dry	259825	1	04/27/2018 01:55	AR
1,2-Dichlorobenzene	BRL	3.9		ug/Kg-dry	259825	1	04/27/2018 01:55	AR
1,2-Dichloroethane	BRL	3.9		ug/Kg-dry	259825	1	04/27/2018 01:55	AR
1,2-Dichloropropane	BRL	3.9		ug/Kg-dry	259825	1	04/27/2018 01:55	AR
1,3-Dichlorobenzene	BRL	3.9		ug/Kg-dry	259825	1	04/27/2018 01:55	AR
1,4-Dichlorobenzene	BRL	3.9		ug/Kg-dry	259825	1	04/27/2018 01:55	AR
2-Butanone	BRL	39		ug/Kg-dry	259825	1	04/27/2018 01:55	AR
2-Hexanone	BRL	7.9		ug/Kg-dry	259825	1	04/27/2018 01:55	AR
4-Methyl-2-pentanone	BRL	7.9		ug/Kg-dry	259825	1	04/27/2018 01:55	AR
Acetone	BRL	79		ug/Kg-dry	259825	1	04/27/2018 01:55	AR
Benzene	BRL	3.9		ug/Kg-dry	259825	1	04/27/2018 01:55	AR
Bromodichloromethane	BRL	3.9		ug/Kg-dry	259825	1	04/27/2018 01:55	AR
Bromoform	BRL	3.9		ug/Kg-dry	259825	1	04/27/2018 01:55	AR
Bromomethane	BRL	3.9		ug/Kg-dry	259825	1	04/27/2018 01:55	AR
Carbon disulfide	BRL	7.9		ug/Kg-dry	259825	1	04/27/2018 01:55	AR
Carbon tetrachloride	BRL	3.9		ug/Kg-dry	259825	1	04/27/2018 01:55	AR
Chlorobenzene	BRL	3.9		ug/Kg-dry	259825	1	04/27/2018 01:55	AR
Chloroethane	BRL	7.9		ug/Kg-dry	259825	1	04/27/2018 01:55	AR
Chloroform	BRL	3.9		ug/Kg-dry	259825	1	04/27/2018 01:55	AR
Chloromethane	BRL	7.9		ug/Kg-dry	259825	1	04/27/2018 01:55	AR
cis-1,2-Dichloroethene	BRL	3.9		ug/Kg-dry	259825	1	04/27/2018 01:55	AR
cis-1,3-Dichloropropene	BRL	3.9		ug/Kg-dry	259825	1	04/27/2018 01:55	AR
Cyclohexane	BRL	3.9		ug/Kg-dry	259825	1	04/27/2018 01:55	AR
Dibromochloromethane	BRL	3.9		ug/Kg-dry	259825	1	04/27/2018 01:55	AR
Dichlorodifluoromethane	BRL	7.9		ug/Kg-dry	259825	1	04/27/2018 01:55	AR
Ethylbenzene	BRL	3.9		ug/Kg-dry	259825	1	04/27/2018 01:55	AR
Freon-113	BRL	7.9		ug/Kg-dry	259825	1	04/27/2018 01:55	AR
Isopropylbenzene	BRL	3.9		ug/Kg-dry	259825	1	04/27/2018 01:55	AR
m,p-Xylene	BRL	3.9		ug/Kg-dry	259825	1	04/27/2018 01:55	AR
Methyl acetate	BRL	3.9		ug/Kg-dry	259825	1	04/27/2018 01:55	AR
Methyl tert-butyl ether	BRL	3.9		ug/Kg-dry	259825	1	04/27/2018 01:55	AR
Methylcyclohexane	BRL	3.9		ug/Kg-dry	259825	1	04/27/2018 01:55	AR
Methylene chloride	BRL	16		ug/Kg-dry	259825	1	04/27/2018 01:55	AR
o-Xylene	BRL	3.9		ug/Kg-dry	259825	1	04/27/2018 01:55	AR

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: 18108-SCS-DUP
Project Name: Rheem	Collection Date: 4/18/2018 12:00:00 PM
Lab ID: 1804H65-093	Matrix: Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5035)				
Styrene	BRL	3.9		ug/Kg-dry	259825	1	04/27/2018 01:55	AR
Tetrachloroethene	BRL	3.9		ug/Kg-dry	259825	1	04/27/2018 01:55	AR
Toluene	BRL	3.9		ug/Kg-dry	259825	1	04/27/2018 01:55	AR
trans-1,2-Dichloroethene	BRL	3.9		ug/Kg-dry	259825	1	04/27/2018 01:55	AR
trans-1,3-Dichloropropene	BRL	3.9		ug/Kg-dry	259825	1	04/27/2018 01:55	AR
Trichloroethene	BRL	3.9		ug/Kg-dry	259825	1	04/27/2018 01:55	AR
Trichlorofluoromethane	BRL	3.9		ug/Kg-dry	259825	1	04/27/2018 01:55	AR
Vinyl chloride	BRL	7.9		ug/Kg-dry	259825	1	04/27/2018 01:55	AR
Surr: 4-Bromofluorobenzene	99.2	65-133		%REC	259825	1	04/27/2018 01:55	AR
Surr: Dibromofluoromethane	91.9	75.8-119		%REC	259825	1	04/27/2018 01:55	AR
Surr: Toluene-d8	104	78.3-120		%REC	259825	1	04/27/2018 01:55	AR
PERCENT MOISTURE D2216								
Percent Moisture	22.7	0		wt%	R368461	1	04/23/2018 08:15	NS

Qualifiers:	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: TRIP BLANK
Project Name: Rheem	Collection Date: 4/18/2018
Lab ID: 1804H65-094	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
1,1,1-Trichloroethane	BRL	5.0		ug/L	259577	1	04/22/2018 22:11	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	259577	1	04/22/2018 22:11	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	259577	1	04/22/2018 22:11	NP
1,1-Dichloroethane	BRL	5.0		ug/L	259577	1	04/22/2018 22:11	NP
1,1-Dichloroethene	BRL	5.0		ug/L	259577	1	04/22/2018 22:11	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	259577	1	04/22/2018 22:11	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	259577	1	04/22/2018 22:11	NP
1,2-Dibromoethane	BRL	5.0		ug/L	259577	1	04/22/2018 22:11	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	259577	1	04/22/2018 22:11	NP
1,2-Dichloroethane	BRL	5.0		ug/L	259577	1	04/22/2018 22:11	NP
1,2-Dichloropropane	BRL	5.0		ug/L	259577	1	04/22/2018 22:11	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	259577	1	04/22/2018 22:11	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	259577	1	04/22/2018 22:11	NP
2-Butanone	BRL	50		ug/L	259577	1	04/22/2018 22:11	NP
2-Hexanone	BRL	10		ug/L	259577	1	04/22/2018 22:11	NP
4-Methyl-2-pentanone	BRL	10		ug/L	259577	1	04/22/2018 22:11	NP
Acetone	BRL	50		ug/L	259577	1	04/22/2018 22:11	NP
Benzene	BRL	5.0		ug/L	259577	1	04/22/2018 22:11	NP
Bromodichloromethane	BRL	5.0		ug/L	259577	1	04/22/2018 22:11	NP
Bromoform	BRL	5.0		ug/L	259577	1	04/22/2018 22:11	NP
Bromomethane	BRL	5.0		ug/L	259577	1	04/22/2018 22:11	NP
Carbon disulfide	BRL	5.0		ug/L	259577	1	04/22/2018 22:11	NP
Carbon tetrachloride	BRL	5.0		ug/L	259577	1	04/22/2018 22:11	NP
Chlorobenzene	BRL	5.0		ug/L	259577	1	04/22/2018 22:11	NP
Chloroethane	BRL	10		ug/L	259577	1	04/22/2018 22:11	NP
Chloroform	BRL	5.0		ug/L	259577	1	04/22/2018 22:11	NP
Chloromethane	BRL	10		ug/L	259577	1	04/22/2018 22:11	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	259577	1	04/22/2018 22:11	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	259577	1	04/22/2018 22:11	NP
Cyclohexane	BRL	5.0		ug/L	259577	1	04/22/2018 22:11	NP
Dibromochloromethane	BRL	5.0		ug/L	259577	1	04/22/2018 22:11	NP
Dichlorodifluoromethane	BRL	10		ug/L	259577	1	04/22/2018 22:11	NP
Ethylbenzene	BRL	5.0		ug/L	259577	1	04/22/2018 22:11	NP
Freon-113	BRL	10		ug/L	259577	1	04/22/2018 22:11	NP
Isopropylbenzene	BRL	5.0		ug/L	259577	1	04/22/2018 22:11	NP
m,p-Xylene	BRL	5.0		ug/L	259577	1	04/22/2018 22:11	NP
Methyl acetate	BRL	5.0		ug/L	259577	1	04/22/2018 22:11	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	259577	1	04/22/2018 22:11	NP
Methylcyclohexane	BRL	5.0		ug/L	259577	1	04/22/2018 22:11	NP
Methylene chloride	BRL	5.0		ug/L	259577	1	04/22/2018 22:11	NP
o-Xylene	BRL	5.0		ug/L	259577	1	04/22/2018 22:11	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 30-Apr-18

Client: Environmental Planning Specialists, Inc.	Client Sample ID: TRIP BLANK
Project Name: Rheem	Collection Date: 4/18/2018
Lab ID: 1804H65-094	Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				(SW5030B)				
Styrene	BRL	5.0		ug/L	259577	1	04/22/2018 22:11	NP
Tetrachloroethene	BRL	5.0		ug/L	259577	1	04/22/2018 22:11	NP
Toluene	BRL	5.0		ug/L	259577	1	04/22/2018 22:11	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	259577	1	04/22/2018 22:11	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	259577	1	04/22/2018 22:11	NP
Trichloroethene	BRL	5.0		ug/L	259577	1	04/22/2018 22:11	NP
Trichlorofluoromethane	BRL	5.0		ug/L	259577	1	04/22/2018 22:11	NP
Vinyl chloride	BRL	2.0		ug/L	259577	1	04/22/2018 22:11	NP
Surr: 4-Bromofluorobenzene	99.9	68-127		%REC	259577	1	04/22/2018 22:11	NP
Surr: Dibromofluoromethane	103	84.4-122		%REC	259577	1	04/22/2018 22:11	NP
Surr: Toluene-d8	96.6	80.1-116		%REC	259577	1	04/22/2018 22:11	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: Environmental Planning Specialists, Inc.

AES Work Order Number: 1804H65

2. Carrier: FedEx UPS USPS Client Courier Other _____

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
5. Custody seals intact on shipping container?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
6. Temperature blanks present?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
9. Chain of Custody signed, dated, and timed when relinquished and received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
10. Sampler name and/or signature on COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
11. Were all samples received within holding time?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
12. TAT marked on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature 2.3 °C Cooler 2 Temperature 2.5 °C Cooler 3 Temperature 2.1 °C Cooler 4 Temperature 2.0 °C
 14. Cooler 5 Temperature 1.8 °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). MJ 4/18/18

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
17. Custody seals present on sample containers?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
18. Custody seals intact on sample containers?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
19. Do sample container labels match the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
21. Were all of the samples listed on the COC received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
23. Did we receive sufficient sample volume for indicated analyses?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
24. Were samples received in appropriate containers?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
25. Were VOA samples received without headspace (< 1/4" bubble)?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
26. Were trip blanks submitted?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	listed on COC <input checked="" type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). AJJ 4/18/18

This section only applies to samples where pH can be checked at Sample Receipt.

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
29. Containers meet preservation guidelines?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
30. Was pH adjusted at Sample Receipt?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		

* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.

I certify that I have completed sections 28-30 (dated initials). AJJ 4/18/18

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem
Workorder: 1804H65

ANALYTICAL QC SUMMARY REPORT

BatchID: 259577

Sample ID: MB-259577	Client ID:	Units: ug/L	Prep Date: 04/20/2018	Run No: 368379							
Sample Type: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 259577	Analysis Date: 04/20/2018	Seq No: 8158537							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem
Workorder: 1804H65

ANALYTICAL QC SUMMARY REPORT

BatchID: 259577

Sample ID: MB-259577	Client ID:	Units: ug/L	Prep Date: 04/20/2018	Run No: 368379							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 259577	Analysis Date: 04/20/2018	Seq No: 8158537							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	45.72	0	50.00		91.4	68	127				
Surr: Dibromofluoromethane	55.75	0	50.00		112	84.4	122				
Surr: Toluene-d8	51.57	0	50.00		103	80.1	116				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem
Workorder: 1804H65

ANALYTICAL QC SUMMARY REPORT

BatchID: 259577

Sample ID: LCS-259577	Client ID:	Units: ug/L	Prep Date: 04/20/2018	Run No: 368379							
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 259577	Analysis Date: 04/20/2018	Seq No: 8158305							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	60.50	5.0	50.00		121	69	136				
Benzene	46.89	5.0	50.00		93.8	73.7	126				
Chlorobenzene	54.74	5.0	50.00		109	73.5	124				
Toluene	56.84	5.0	50.00		114	76.8	125				
Trichloroethene	52.98	5.0	50.00		106	70.9	124				
Surr: 4-Bromofluorobenzene	45.04	0	50.00		90.1	68	127				
Surr: Dibromofluoromethane	53.12	0	50.00		106	84.4	122				
Surr: Toluene-d8	50.79	0	50.00		102	80.1	116				

Sample ID: 1804F97-006AMS	Client ID:	Units: ug/L	Prep Date: 04/20/2018	Run No: 368493							
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 259577	Analysis Date: 04/22/2018	Seq No: 8158592							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	2838	250	2500		114	65.7	143				
Benzene	2716	250	2500	88.50	105	66.1	137				
Chlorobenzene	2903	250	2500		116	70.9	132				
Toluene	2716	250	2500		109	63.8	141				
Trichloroethene	2683	250	2500		107	70.6	128				
Surr: 4-Bromofluorobenzene	2556	0	2500		102	68	127				
Surr: Dibromofluoromethane	2432	0	2500		97.3	84.4	122				
Surr: Toluene-d8	2336	0	2500		93.4	80.1	116				

Sample ID: 1804F97-006AMSD	Client ID:	Units: ug/L	Prep Date: 04/20/2018	Run No: 368493							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 259577	Analysis Date: 04/22/2018	Seq No: 8158594							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	2587	250	2500		103	65.7	143	2838	9.24	17.7	
Benzene	2564	250	2500	88.50	99.0	66.1	137	2716	5.72	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem
Workorder: 1804H65

ANALYTICAL QC SUMMARY REPORT

BatchID: 259577

Sample ID: 1804F97-006AMSD	Client ID:	Units: ug/L	Prep Date: 04/20/2018	Run No: 368493							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 259577	Analysis Date: 04/22/2018	Seq No: 8158594							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlorobenzene	2786	250	2500		111	70.9	132	2903	4.10	20	
Toluene	2574	250	2500		103	63.8	141	2716	5.35	20	
Trichloroethene	2566	250	2500		103	70.6	128	2683	4.46	20	
Surr: 4-Bromofluorobenzene	2482	0	2500		99.3	68	127	2556	0	0	
Surr: Dibromofluoromethane	2562	0	2500		102	84.4	122	2432	0	0	
Surr: Toluene-d8	2353	0	2500		94.1	80.1	116	2336	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem
Workorder: 1804H65

ANALYTICAL QC SUMMARY REPORT

BatchID: 259619

Sample ID: MB-259619	Client ID:	Units: ug/Kg	Prep Date: 04/22/2018	Run No: 368574							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 259619	Analysis Date: 04/22/2018	Seq No: 8160959							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	100									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	10									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem
Workorder: 1804H65

ANALYTICAL QC SUMMARY REPORT

BatchID: 259619

Sample ID: MB-259619	Client ID:	Units: ug/Kg	Prep Date: 04/22/2018	Run No: 368574							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 259619	Analysis Date: 04/22/2018	Seq No: 8160959							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	20									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	10									
Surr: 4-Bromofluorobenzene	47.02	0	50.00		94.0	65	133				
Surr: Dibromofluoromethane	55.81	0	50.00		112	75.8	119				
Surr: Toluene-d8	50.28	0	50.00		101	78.3	120				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem
Workorder: 1804H65

ANALYTICAL QC SUMMARY REPORT

BatchID: 259619

Sample ID: LCS-259619	Client ID:	Units: ug/Kg	Prep Date: 04/22/2018	Run No: 368644							
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 259619	Analysis Date: 04/24/2018	Seq No: 8162614							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	54.84	5.0	50.00		110	64.8	138				
Benzene	54.00	5.0	50.00		108	70	126				
Chlorobenzene	54.59	5.0	50.00		109	70	124				
Toluene	56.11	5.0	50.00		112	70.4	127				
Trichloroethene	54.55	5.0	50.00		109	70.4	129				
Surr: 4-Bromofluorobenzene	43.72	0	50.00		87.4	65	133				
Surr: Dibromofluoromethane	54.24	0	50.00		108	75.8	119				
Surr: Toluene-d8	53.72	0	50.00		107	78.3	120				

Sample ID: 1804G19-001AMS	Client ID:	Units: ug/Kg-dry	Prep Date: 04/22/2018	Run No: 368574							
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 259619	Analysis Date: 04/22/2018	Seq No: 8160961							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	81.23	6.7	67.17		121	58.3	138				
Benzene	71.41	6.7	67.17		106	66.2	127				
Chlorobenzene	73.39	6.7	67.17		109	66	124				
Toluene	69.87	6.7	67.17		104	67.4	127				
Trichloroethene	70.88	6.7	67.17		106	64.9	127				
Surr: 4-Bromofluorobenzene	59.57	0	67.17		88.7	65	133				
Surr: Dibromofluoromethane	73.37	0	67.17		109	75.8	119				
Surr: Toluene-d8	68.23	0	67.17		102	78.3	120				

Sample ID: 1804G19-001AMSD	Client ID:	Units: ug/Kg-dry	Prep Date: 04/22/2018	Run No: 368574							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 259619	Analysis Date: 04/22/2018	Seq No: 8160962							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	83.36	6.7	67.17		124	58.3	138	81.23	2.60	20.2	
Benzene	75.58	6.7	67.17		113	66.2	127	71.41	5.69	18.6	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem
Workorder: 1804H65

ANALYTICAL QC SUMMARY REPORT

BatchID: 259619

Sample ID: 1804G19-001AMSD	Client ID:	Units: ug/Kg-dry	Prep Date: 04/22/2018	Run No: 368574
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 259619	Analysis Date: 04/22/2018	Seq No: 8160962

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	74.93	6.7	67.17		112	66	124	73.39	2.07	20	
Toluene	68.41	6.7	67.17		102	67.4	127	69.87	2.12	20	
Trichloroethene	73.64	6.7	67.17		110	64.9	127	70.88	3.81	20	
Surr: 4-Bromofluorobenzene	63.24	0	67.17		94.1	65	133	59.57	0	0	
Surr: Dibromofluoromethane	72.04	0	67.17		107	75.8	119	73.37	0	0	
Surr: Toluene-d8	65.23	0	67.17		97.1	78.3	120	68.23	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem
Workorder: 1804H65

ANALYTICAL QC SUMMARY REPORT

BatchID: 259657

Sample ID: MB-259657	Client ID:	Units: ug/Kg	Prep Date: 04/23/2018	Run No: 368480							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 259657	Analysis Date: 04/23/2018	Seq No: 8159856							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	100									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	10									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem
Workorder: 1804H65

ANALYTICAL QC SUMMARY REPORT

BatchID: 259657

Sample ID: MB-259657	Client ID:	Units: ug/Kg	Prep Date: 04/23/2018	Run No: 368480							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 259657	Analysis Date: 04/23/2018	Seq No: 8159856							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	20									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	10									
Surr: 4-Bromofluorobenzene	44.03	0	50.00		88.1	65	133				
Surr: Dibromofluoromethane	53.95	0	50.00		108	75.8	119				
Surr: Toluene-d8	53.16	0	50.00		106	78.3	120				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem
Workorder: 1804H65

ANALYTICAL QC SUMMARY REPORT

BatchID: 259657

Sample ID: LCS-259657	Client ID:	Units: ug/Kg	Prep Date: 04/23/2018	Run No: 368480							
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 259657	Analysis Date: 04/23/2018	Seq No: 8162489							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	59.06	5.0	50.00		118	64.8	138				
Benzene	57.80	5.0	50.00		116	70	126				
Chlorobenzene	57.42	5.0	50.00		115	70	124				
Toluene	57.65	5.0	50.00		115	70.4	127				
Trichloroethene	59.41	5.0	50.00		119	70.4	129				
Surr: 4-Bromofluorobenzene	45.96	0	50.00		91.9	65	133				
Surr: Dibromofluoromethane	55.32	0	50.00		111	75.8	119				
Surr: Toluene-d8	52.12	0	50.00		104	78.3	120				

Sample ID: 1804H65-025AMS	Client ID: 18107-SCS-19-13	Units: ug/Kg-dry	Prep Date: 04/23/2018	Run No: 368480							
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 259657	Analysis Date: 04/23/2018	Seq No: 8162491							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	66.82	6.1	61.16		109	58.3	138				
Benzene	62.17	6.1	61.16		102	66.2	127				
Chlorobenzene	62.19	6.1	61.16		102	66	124				
Toluene	61.63	6.1	61.16		101	67.4	127				
Trichloroethene	61.14	6.1	61.16		100.0	64.9	127				
Surr: 4-Bromofluorobenzene	54.07	0	61.16		88.4	65	133				
Surr: Dibromofluoromethane	67.17	0	61.16		110	75.8	119				
Surr: Toluene-d8	64.16	0	61.16		105	78.3	120				

Sample ID: 1804H65-025AMSD	Client ID: 18107-SCS-19-13	Units: ug/Kg-dry	Prep Date: 04/23/2018	Run No: 368480							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 259657	Analysis Date: 04/23/2018	Seq No: 8162492							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	65.20	6.1	61.16		107	58.3	138	66.82	2.45	20.2	
Benzene	63.15	6.1	61.16		103	66.2	127	62.17	1.56	18.6	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem
Workorder: 1804H65

ANALYTICAL QC SUMMARY REPORT

BatchID: 259657

Sample ID: 1804H65-025AMSD	Client ID: 18107-SCS-19-13	Units: ug/Kg-dry	Prep Date: 04/23/2018	Run No: 368480							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 259657	Analysis Date: 04/23/2018	Seq No: 8162492							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlorobenzene	63.64	6.1	61.16		104	66	124	62.19	2.29	20	
Toluene	64.35	6.1	61.16		105	67.4	127	61.63	4.31	20	
Trichloroethene	61.85	6.1	61.16		101	64.9	127	61.14	1.15	20	
Surr: 4-Bromofluorobenzene	54.19	0	61.16		88.6	65	133	54.07	0	0	
Surr: Dibromofluoromethane	64.46	0	61.16		105	75.8	119	67.17	0	0	
Surr: Toluene-d8	64.70	0	61.16		106	78.3	120	64.16	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank	
	BRL	Below reporting limit		E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit		N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit		S	Spike Recovery outside limits due to matrix		

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem
Workorder: 1804H65

ANALYTICAL QC SUMMARY REPORT

BatchID: 259663

Sample ID: MB-259663	Client ID:	Units: ug/Kg	Prep Date: 04/23/2018	Run No: 368648							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 259663	Analysis Date: 04/23/2018	Seq No: 8164550							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	100									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	10									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem
Workorder: 1804H65

ANALYTICAL QC SUMMARY REPORT

BatchID: 259663

Sample ID: MB-259663	Client ID:	Units: ug/Kg	Prep Date: 04/23/2018	Run No: 368648							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 259663	Analysis Date: 04/23/2018	Seq No: 8164550							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	20									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	10									
Surr: 4-Bromofluorobenzene	43.75	0	50.00		87.5	65	133				
Surr: Dibromofluoromethane	51.52	0	50.00		103	75.8	119				
Surr: Toluene-d8	54.58	0	50.00		109	78.3	120				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem
Workorder: 1804H65

ANALYTICAL QC SUMMARY REPORT

BatchID: 259663

Sample ID: LCS-259663	Client ID:	Units: ug/Kg	Prep Date: 04/23/2018	Run No: 368648							
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 259663	Analysis Date: 04/23/2018	Seq No: 8164556							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	44.33	5.0	50.00		88.7	64.8	138				
Benzene	46.08	5.0	50.00		92.2	70	126				
Chlorobenzene	45.62	5.0	50.00		91.2	70	124				
Toluene	47.35	5.0	50.00		94.7	70.4	127				
Trichloroethene	44.82	5.0	50.00		89.6	70.4	129				
Surr: 4-Bromofluorobenzene	43.49	0	50.00		87.0	65	133				
Surr: Dibromofluoromethane	52.48	0	50.00		105	75.8	119				
Surr: Toluene-d8	53.39	0	50.00		107	78.3	120				

Sample ID: 1804H65-045AMS	Client ID: 18107-SCS-9-4	Units: ug/Kg-dry	Prep Date: 04/23/2018	Run No: 368648							
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 259663	Analysis Date: 04/24/2018	Seq No: 8164557							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	64.66	6.5	64.94		99.6	58.3	138				
Benzene	60.36	6.5	64.94		92.9	66.2	127				
Chlorobenzene	60.18	6.5	64.94		92.7	66	124				
Toluene	62.06	6.5	64.94		95.6	67.4	127				
Trichloroethene	58.54	6.5	64.94		90.1	64.9	127				
Surr: 4-Bromofluorobenzene	57.12	0	64.94		88.0	65	133				
Surr: Dibromofluoromethane	71.39	0	64.94		110	75.8	119				
Surr: Toluene-d8	69.26	0	64.94		107	78.3	120				

Sample ID: 1804H65-045AMSD	Client ID: 18107-SCS-9-4	Units: ug/Kg-dry	Prep Date: 04/23/2018	Run No: 368648							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 259663	Analysis Date: 04/24/2018	Seq No: 8164558							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	58.54	6.5	64.94		90.1	58.3	138	64.66	9.93	20.2	
Benzene	58.07	6.5	64.94		89.4	66.2	127	60.36	3.86	18.6	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem
Workorder: 1804H65

ANALYTICAL QC SUMMARY REPORT

BatchID: 259663

Sample ID: 1804H65-045AMSD	Client ID: 18107-SCS-9-4	Units: ug/Kg-dry	Prep Date: 04/23/2018	Run No: 368648							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 259663	Analysis Date: 04/24/2018	Seq No: 8164558							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlorobenzene	59.84	6.5	64.94		92.1	66	124	60.18	0.563	20	
Toluene	59.40	6.5	64.94		91.5	67.4	127	62.06	4.38	20	
Trichloroethene	57.50	6.5	64.94		88.5	64.9	127	58.54	1.79	20	
Surr: 4-Bromofluorobenzene	55.99	0	64.94		86.2	65	133	57.12	0	0	
Surr: Dibromofluoromethane	66.22	0	64.94		102	75.8	119	71.39	0	0	
Surr: Toluene-d8	68.10	0	64.94		105	78.3	120	69.26	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem
Workorder: 1804H65

ANALYTICAL QC SUMMARY REPORT

BatchID: 259681

Sample ID: MB-259681	Client ID:	Units: ug/Kg	Prep Date: 04/23/2018	Run No: 368468							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 259681	Analysis Date: 04/23/2018	Seq No: 8159367							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	100									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	10									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem
Workorder: 1804H65

ANALYTICAL QC SUMMARY REPORT

BatchID: 259681

Sample ID: MB-259681	Client ID:	Units: ug/Kg	Prep Date: 04/23/2018	Run No: 368468							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 259681	Analysis Date: 04/23/2018	Seq No: 8159367							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	20									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	10									
Surr: 4-Bromofluorobenzene	49.42	0	50.00		98.8	65	133				
Surr: Dibromofluoromethane	46.30	0	50.00		92.6	75.8	119				
Surr: Toluene-d8	51.41	0	50.00		103	78.3	120				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem
Workorder: 1804H65

ANALYTICAL QC SUMMARY REPORT

BatchID: 259681

Sample ID: LCS-259681	Client ID:	Units: ug/Kg	Prep Date: 04/23/2018	Run No: 368797							
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 259681	Analysis Date: 04/24/2018	Seq No: 8166274							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	54.96	5.0	50.00		110	64.8	138				
Benzene	53.11	5.0	50.00		106	70	126				
Chlorobenzene	53.28	5.0	50.00		107	70	124				
Toluene	56.76	5.0	50.00		114	70.4	127				
Trichloroethene	55.27	5.0	50.00		111	70.4	129				
Surr: 4-Bromofluorobenzene	48.66	0	50.00		97.3	65	133				
Surr: Dibromofluoromethane	45.34	0	50.00		90.7	75.8	119				
Surr: Toluene-d8	50.98	0	50.00		102	78.3	120				

Sample ID: 1804H65-002AMS	Client ID: 18107-SCS-14-1.5	Units: ug/Kg-dry	Prep Date: 04/23/2018	Run No: 368468							
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 259681	Analysis Date: 04/23/2018	Seq No: 8163466							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	80.04	6.4	63.89		125	58.3	138				
Benzene	74.97	6.4	63.89		117	66.2	127				
Chlorobenzene	75.26	6.4	63.89		118	66	124				
Toluene	79.89	6.4	63.89		125	67.4	127				
Trichloroethene	77.02	6.4	63.89		121	64.9	127				
Surr: 4-Bromofluorobenzene	63.42	0	63.89		99.3	65	133				
Surr: Dibromofluoromethane	58.01	0	63.89		90.8	75.8	119				
Surr: Toluene-d8	65.90	0	63.89		103	78.3	120				

Sample ID: 1804H65-002AMSD	Client ID: 18107-SCS-14-1.5	Units: ug/Kg-dry	Prep Date: 04/23/2018	Run No: 368468							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 259681	Analysis Date: 04/23/2018	Seq No: 8163468							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	79.70	6.4	63.89		125	58.3	138	80.04	0.432	20.2	
Benzene	74.88	6.4	63.89		117	66.2	127	74.97	0.119	18.6	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem
Workorder: 1804H65

ANALYTICAL QC SUMMARY REPORT

BatchID: 259681

Sample ID: **1804H65-002AMSD** Client ID: **18107-SCS-14-1.5** Units: **ug/Kg-dry** Prep Date: **04/23/2018** Run No: **368468**
 SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **259681** Analysis Date: **04/23/2018** Seq No: **8163468**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	74.38	6.4	63.89		116	66	124	75.26	1.18	20	
Toluene	78.26	6.4	63.89		122	67.4	127	79.89	2.07	20	
Trichloroethene	74.63	6.4	63.89		117	64.9	127	77.02	3.15	20	
Surr: 4-Bromofluorobenzene	62.90	0	63.89		98.4	65	133	63.42	0	0	
Surr: Dibromofluoromethane	57.30	0	63.89		89.7	75.8	119	58.01	0	0	
Surr: Toluene-d8	64.72	0	63.89		101	78.3	120	65.90	0	0	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem
Workorder: 1804H65

ANALYTICAL QC SUMMARY REPORT

BatchID: 259788

Sample ID: MB-259788	Client ID:	Units: ug/Kg	Prep Date: 04/25/2018	Run No: 368767
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 259788	Analysis Date: 04/25/2018	Seq No: 8167140

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	BRL	250									
1,1,2,2-Tetrachloroethane	BRL	250									
1,1,2-Trichloroethane	BRL	250									
1,1-Dichloroethane	BRL	250									
1,1-Dichloroethene	BRL	250									
1,2,4-Trichlorobenzene	BRL	250									
1,2-Dibromo-3-chloropropane	BRL	250									
1,2-Dibromoethane	BRL	250									
1,2-Dichlorobenzene	BRL	250									
1,2-Dichloroethane	BRL	250									
1,2-Dichloropropane	BRL	250									
1,3-Dichlorobenzene	BRL	250									
1,4-Dichlorobenzene	BRL	250									
2-Butanone	BRL	2500									
2-Hexanone	BRL	500									
4-Methyl-2-pentanone	BRL	500									
Acetone	BRL	5000									
Benzene	BRL	250									
Bromodichloromethane	BRL	250									
Bromoform	BRL	250									
Bromomethane	BRL	250									
Carbon disulfide	BRL	500									
Carbon tetrachloride	BRL	250									
Chlorobenzene	BRL	250									
Chloroethane	BRL	500									
Chloroform	BRL	250									
Chloromethane	BRL	500									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem
Workorder: 1804H65

ANALYTICAL QC SUMMARY REPORT

BatchID: 259788

Sample ID: MB-259788	Client ID:	Units: ug/Kg	Prep Date: 04/25/2018	Run No: 368767							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 259788	Analysis Date: 04/25/2018	Seq No: 8167140							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

cis-1,2-Dichloroethene	BRL	250									
cis-1,3-Dichloropropene	BRL	250									
Cyclohexane	BRL	250									
Dibromochloromethane	BRL	250									
Dichlorodifluoromethane	BRL	500									
Ethylbenzene	BRL	250									
Freon-113	BRL	500									
Isopropylbenzene	BRL	250									
m,p-Xylene	BRL	250									
Methyl acetate	BRL	250									
Methyl tert-butyl ether	BRL	250									
Methylcyclohexane	BRL	250									
Methylene chloride	BRL	1000									
o-Xylene	BRL	250									
Styrene	BRL	250									
Tetrachloroethene	BRL	250									
Toluene	BRL	250									
trans-1,2-Dichloroethene	BRL	250									
trans-1,3-Dichloropropene	BRL	250									
Trichloroethene	BRL	250									
Trichlorofluoromethane	BRL	250									
Vinyl chloride	BRL	500									
Surr: 4-Bromofluorobenzene	1977	0	2500		79.1	65	133				
Surr: Dibromofluoromethane	2570	0	2500		103	75.8	119				
Surr: Toluene-d8	2374	0	2500		94.9	78.3	120				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem
Workorder: 1804H65

ANALYTICAL QC SUMMARY REPORT

BatchID: 259788

Sample ID: LCS-259788	Client ID:	Units: ug/Kg	Prep Date: 04/25/2018	Run No: 368767							
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 259788	Analysis Date: 04/25/2018	Seq No: 8167136							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	2606	250	2500		104	64.8	138				
Benzene	2620	250	2500		105	70	126				
Chlorobenzene	2719	250	2500		109	70	124				
Toluene	2621	250	2500		105	70.4	127				
Trichloroethene	2690	250	2500		108	70.4	129				
Surr: 4-Bromofluorobenzene	2192	0	2500		87.7	65	133				
Surr: Dibromofluoromethane	2743	0	2500		110	75.8	119				
Surr: Toluene-d8	2442	0	2500		97.7	78.3	120				

Sample ID: 1804H65-009AMS	Client ID: 18107-SCS-15-10	Units: ug/Kg-dry	Prep Date: 04/25/2018	Run No: 368922							
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 259788	Analysis Date: 04/27/2018	Seq No: 8171629							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	1672	170	1657		101	58.3	138				
Benzene	1615	170	1657		97.5	66.2	127				
Chlorobenzene	1817	170	1657		110	66	124				
Toluene	1817	170	1657		110	67.4	127				
Trichloroethene	1699	170	1657		103	64.9	127				
Surr: 4-Bromofluorobenzene	1359	0	1657		82.0	65	133				
Surr: Dibromofluoromethane	1622	0	1657		97.9	75.8	119				
Surr: Toluene-d8	1653	0	1657		99.8	78.3	120				

Sample ID: 1804H65-009AMSD	Client ID: 18107-SCS-15-10	Units: ug/Kg-dry	Prep Date: 04/25/2018	Run No: 368922							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 259788	Analysis Date: 04/27/2018	Seq No: 8171630							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	1429	170	1657		86.2	58.3	138	1672	15.7	20.2	
Benzene	1539	170	1657		92.9	66.2	127	1615	4.83	18.6	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem
Workorder: 1804H65

ANALYTICAL QC SUMMARY REPORT

BatchID: 259788

Sample ID: 1804H65-009AMSD	Client ID: 18107-SCS-15-10	Units: ug/Kg-dry	Prep Date: 04/25/2018	Run No: 368922							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 259788	Analysis Date: 04/27/2018	Seq No: 8171630							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlorobenzene	1670	170	1657		101	66	124	1817	8.46	20	
Toluene	1684	170	1657		102	67.4	127	1817	7.59	20	
Trichloroethene	1648	170	1657		99.4	64.9	127	1699	3.05	20	
Surr: 4-Bromofluorobenzene	1484	0	1657		89.5	65	133	1359	0	0	
Surr: Dibromofluoromethane	1578	0	1657		95.2	75.8	119	1622	0	0	
Surr: Toluene-d8	1681	0	1657		101	78.3	120	1653	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem
Workorder: 1804H65

ANALYTICAL QC SUMMARY REPORT

BatchID: 259794

Sample ID: MB-	Client ID:	Units: ug/Kg	Prep Date: 04/24/2018	Run No: 368797							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 259794	Analysis Date: 04/24/2018	Seq No: 8166275							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	100									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	10									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem
Workorder: 1804H65

ANALYTICAL QC SUMMARY REPORT

BatchID: 259794

Sample ID: MB-	Client ID:	Units: ug/Kg	Prep Date: 04/24/2018	Run No: 368797							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 259794	Analysis Date: 04/24/2018	Seq No: 8166275							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	20									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	10									
Surr: 4-Bromofluorobenzene	48.21	0	50.00		96.4	65	133				
Surr: Dibromofluoromethane	45.26	0	50.00		90.5	75.8	119				
Surr: Toluene-d8	50.88	0	50.00		102	78.3	120				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem
Workorder: 1804H65

ANALYTICAL QC SUMMARY REPORT

BatchID: 259794

Sample ID: MB-259794	Client ID:	Units: ug/Kg	Prep Date: 04/24/2018	Run No: 368852							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 259794	Analysis Date: 04/25/2018	Seq No: 8167989							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	100									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	10									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem
Workorder: 1804H65

ANALYTICAL QC SUMMARY REPORT

BatchID: 259794

Sample ID: MB-259794	Client ID:	Units: ug/Kg	Prep Date: 04/24/2018	Run No: 368852							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 259794	Analysis Date: 04/25/2018	Seq No: 8167989							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	20									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	10									
Surr: 4-Bromofluorobenzene	45.54	0	50.00		91.1	65	133				
Surr: Dibromofluoromethane	57.23	0	50.00		114	75.8	119				
Surr: Toluene-d8	50.50	0	50.00		101	78.3	120				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem
Workorder: 1804H65

ANALYTICAL QC SUMMARY REPORT

BatchID: 259794

Sample ID: LCS-259794	Client ID:	Units: ug/Kg	Prep Date: 04/24/2018	Run No: 368852							
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 259794	Analysis Date: 04/25/2018	Seq No: 8167716							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	47.28	5.0	50.00		94.6	64.8	138				
Benzene	45.28	5.0	50.00		90.6	70	126				
Chlorobenzene	46.86	5.0	50.00		93.7	70	124				
Toluene	47.38	5.0	50.00		94.8	70.4	127				
Trichloroethene	48.78	5.0	50.00		97.6	70.4	129				
Surr: 4-Bromofluorobenzene	43.10	0	50.00		86.2	65	133				
Surr: Dibromofluoromethane	52.70	0	50.00		105	75.8	119				
Surr: Toluene-d8	51.94	0	50.00		104	78.3	120				

Sample ID: 1804H65-067AMS	Client ID: 18108-SCS-5-13	Units: ug/Kg-dry	Prep Date: 04/24/2018	Run No: 368852							
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 259794	Analysis Date: 04/25/2018	Seq No: 8167717							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	60.11	6.5	64.82		92.7	58.3	138				
Benzene	60.28	6.5	64.82		93.0	66.2	127				
Chlorobenzene	62.85	6.5	64.82		97.0	66	124				
Toluene	63.21	6.5	64.82		97.5	67.4	127				
Trichloroethene	62.43	6.5	64.82		96.3	64.9	127				
Surr: 4-Bromofluorobenzene	57.09	0	64.82		88.1	65	133				
Surr: Dibromofluoromethane	67.28	0	64.82		104	75.8	119				
Surr: Toluene-d8	68.54	0	64.82		106	78.3	120				

Sample ID: 1804H65-067AMSD	Client ID: 18108-SCS-5-13	Units: ug/Kg-dry	Prep Date: 04/24/2018	Run No: 368852							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 259794	Analysis Date: 04/25/2018	Seq No: 8167718							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	64.52	6.5	64.82		99.5	58.3	138	60.11	7.07	20.2	
Benzene	61.50	6.5	64.82		94.9	66.2	127	60.28	2.00	18.6	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem
Workorder: 1804H65

ANALYTICAL QC SUMMARY REPORT

BatchID: 259794

Sample ID: 1804H65-067AMSD	Client ID: 18108-SCS-5-13	Units: ug/Kg-dry	Prep Date: 04/24/2018	Run No: 368852
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 259794	Analysis Date: 04/25/2018	Seq No: 8167718

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	66.30	6.5	64.82		102	66	124	62.85	5.34	20	
Toluene	64.59	6.5	64.82		99.6	67.4	127	63.21	2.15	20	
Trichloroethene	64.52	6.5	64.82		99.5	64.9	127	62.43	3.29	20	
Surr: 4-Bromofluorobenzene	56.73	0	64.82		87.5	65	133	57.09	0	0	
Surr: Dibromofluoromethane	68.48	0	64.82		106	75.8	119	67.28	0	0	
Surr: Toluene-d8	67.98	0	64.82		105	78.3	120	68.54	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem
Workorder: 1804H65

ANALYTICAL QC SUMMARY REPORT

BatchID: 259825

Sample ID: MB-259825	Client ID:	Units: ug/Kg	Prep Date: 04/25/2018	Run No: 368800							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 259825	Analysis Date: 04/25/2018	Seq No: 8168234							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	100									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	10									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem
Workorder: 1804H65

ANALYTICAL QC SUMMARY REPORT

BatchID: 259825

Sample ID: MB-259825	Client ID:	Units: ug/Kg	Prep Date: 04/25/2018	Run No: 368800							
SampleType: MBLK	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 259825	Analysis Date: 04/25/2018	Seq No: 8168234							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	20									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	10									
Surr: 4-Bromofluorobenzene	47.96	0	50.00		95.9	65	133				
Surr: Dibromofluoromethane	45.74	0	50.00		91.5	75.8	119				
Surr: Toluene-d8	51.08	0	50.00		102	78.3	120				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem
Workorder: 1804H65

ANALYTICAL QC SUMMARY REPORT

BatchID: 259825

Sample ID: LCS-259825	Client ID:	Units: ug/Kg	Prep Date: 04/25/2018	Run No: 368800							
SampleType: LCS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 259825	Analysis Date: 04/25/2018	Seq No: 8168211							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	55.84	5.0	50.00		112	64.8	138				
Benzene	52.81	5.0	50.00		106	70	126				
Chlorobenzene	53.37	5.0	50.00		107	70	124				
Toluene	56.63	5.0	50.00		113	70.4	127				
Trichloroethene	55.29	5.0	50.00		111	70.4	129				
Surr: 4-Bromofluorobenzene	47.99	0	50.00		96.0	65	133				
Surr: Dibromofluoromethane	45.47	0	50.00		90.9	75.8	119				
Surr: Toluene-d8	51.29	0	50.00		103	78.3	120				

Sample ID: 1804J04-002AMS	Client ID: MW-4 (25-27')	Units: ug/Kg-dry	Prep Date: 04/25/2018	Run No: 368800							
SampleType: MS	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 259825	Analysis Date: 04/25/2018	Seq No: 8168232							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	65.50	6.0	60.27		109	58.3	138				
Benzene	61.65	6.0	60.27		102	66.2	127				
Chlorobenzene	63.09	6.0	60.27		105	66	124				
Toluene	66.23	6.0	60.27		110	67.4	127				
Trichloroethene	63.04	6.0	60.27		105	64.9	127				
Surr: 4-Bromofluorobenzene	57.80	0	60.27		95.9	65	133				
Surr: Dibromofluoromethane	53.54	0	60.27		88.8	75.8	119				
Surr: Toluene-d8	59.98	0	60.27		99.5	78.3	120				

Sample ID: 1804J04-002AMSD	Client ID: MW-4 (25-27')	Units: ug/Kg-dry	Prep Date: 04/25/2018	Run No: 368800							
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 259825	Analysis Date: 04/25/2018	Seq No: 8168233							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	65.54	6.0	60.27		109	58.3	138	65.50	0.055	20.2	
Benzene	63.05	6.0	60.27		105	66.2	127	61.65	2.24	18.6	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Environmental Planning Specialists, Inc.
Project Name: Rheem
Workorder: 1804H65

ANALYTICAL QC SUMMARY REPORT

BatchID: 259825

Sample ID: 1804J04-002AMSD	Client ID: MW-4 (25-27')	Units: ug/Kg-dry	Prep Date: 04/25/2018	Run No: 368800
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 259825	Analysis Date: 04/25/2018	Seq No: 8168233

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	62.91	6.0	60.27		104	66	124	63.09	0.287	20	
Toluene	67.33	6.0	60.27		112	67.4	127	66.23	1.64	20	
Trichloroethene	65.46	6.0	60.27		109	64.9	127	63.04	3.77	20	
Surr: 4-Bromofluorobenzene	56.59	0	60.27		93.9	65	133	57.80	0	0	
Surr: Dibromofluoromethane	55.05	0	60.27		91.3	75.8	119	53.54	0	0	
Surr: Toluene-d8	60.54	0	60.27		100	78.3	120	59.98	0	0	

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		