Prepared for:

CAPITAL CITY BANK
1301 Metropolitan Boulevard
Tallahassee, Florida 32308

VOLUNTARY REMEDIATION PROGRAM
PROGRESS REPORT #4
Grantville Mill
41 Industrial Way
Grantville, GA 30220

Prepared by:

1050 Crown Pointe Parkway, Suite 550
Atlanta, Georgia 30338
Tel: 404-315-9113

July 2017

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Kirk J. Kessler, P.G.
Senior Principal

July 2017

EPS

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EPS

PROFESSIONAL GEOLOGIST CERTIFICATION

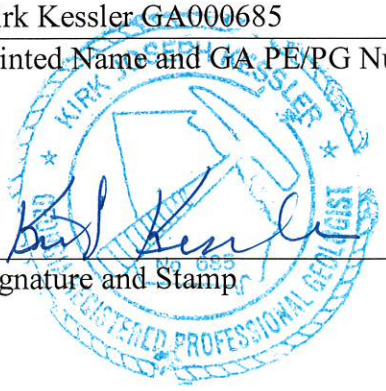
"I certify under penalty of law that this report and all attachments were prepared by me or under my direct supervision in accordance with the Voluntary Remediation Program Act (O.C.G.A. Section 12-8-101, et seq.). I am a professional engineer/professional geologist who is registered with the Georgia State Board of Registration for Professional Engineers and Land Surveyors/Georgia State Board of Registration for Professional Geologists and I have the necessary experience and am in charge of the investigation and remediation of this release of regulated substances.

Furthermore, to document my direct oversight of the Voluntary Remediation Plan development, implementation of corrective action, and long term monitoring, I have attached a monthly summary of hours invoiced and description of services provided by me to the Voluntary Remediation Program participant since the previous submittal to the Georgia Environmental Protection Division.

The information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Kirk Kessler GA000685 — Printed Name and GA PE/PG Number

7/31/2017 — Date



Signature and Stamp

1 INTRODUCTION

1.1 Overview

This Voluntary Remediation Program (VRP) Progress Report #4 is submitted on behalf of Capital City Bank (CCB) for the Grantville Mill site comprised of two parcels as listed on the Hazardous Site Inventory (HSI), Site Number 10912. The Grantville Mill Voluntary Investigation and Remediation Plan (VIRP) (EPS, 2015) was approved by the Georgia Environmental Protection Division (EPD) on July 22, 2015 (EPD, 2015). This Progress Report includes the on-Site soil assessment activities completed during the current reporting period from January 1 through July 24, 2017 and a comprehensive overview of soil analytical results to date, including data from 2016. Calculations of Site-specific Risk Reduction Standards (RRS) and planned activities for the next reporting period are also detailed in this report.

1.2 Site Location and Description

The CCB property is located in the City of Grantville, Georgia in Coweta County (Figure 1). The CCB property is listed as Coweta Country Parcel ID G050008008, totals 13.48 acres, and has the physical address of 41 Industrial Way, Grantville, Georgia. The other parcel comprising HSI Site Number 10912, Coweta County Parcel ID G050008008A, is owned by Grantville Mill, LLC and was brought into the VRP as an additional qualifying property (Figure 2). Together these two property parcels constitute the "Site".

The Property was first developed in the early 1900s as a cotton mill to make uniforms and canvas during World War I. The mill later became West Point Peppermill's Grantville Mill, operating into the early 1980s when the mill was closed. Since that time, buildings within the facility have been leased to various companies. One of the tenants, Tropic Formals, Ltd., operated a formals clothing business in one of the former mill buildings at the southwest portion of the mill complex between 1980 and 1993. Tropic Formals, Ltd. was previously listed as an RCRA handler of tetrachloroethene (PCE) for dry cleaning until it changed its registration status to a non-waste generator on December 31, 1993. The Site is listed on the basis of a documented PCE release to groundwater. The property is currently unoccupied with no plans to occupy the property or buildings in the future.

Properties bordering the Site and their land use are shown on Figure 2 and include:

- to the Northeast - wooded vacant land (Grantville Mill LLC parcel);
- to the East - CSX rail line and Grantville City Cemetery;
- to the South and Southwest - residences; and
- to the West and Northwest – residences and a City park complex.

2 VRP PROJECT MANAGEMENT

2.1 Professional Geologist Oversight

This Progress Report includes a certification by Kirk Kessler, the Professional Geologist (PG) specified in the VRP application. Appendix A contains a monthly summary of hours invoiced by the PG.

2.2 Milestone Schedule

The milestone schedule is included in Appendix B.

3 RECENTLY COMPLETED ACTIVITIES

3.1 Overview

This section discusses soil sampling activities completed during the current reporting period and a comprehensive overview of soil test results to date. Data summaries for soil constitutes are provided in Table 1 and Table 2.

3.2 On-Site Soil Assessment

3.2.1 Overview

Three soil sampling events were performed during this reporting period. The first event took place on June 2, 2017 and included sampling of soil from two locations: (1) beneath and adjacent to the main facility building (SB-17 through SB-22), and (2) adjacent to the former maintenance shop (S-3 through S-6). The soil samples collected from beneath and adjacent to the main facility building were analyzed for volatile organic compounds (VOCs) by Environmental Protection Agency (EPA) Method 8260. The soil samples collected from the former maintenance shop area were analyzed for VOCs by EPA Method 8260 and metals by EPA Method 6010. The second event on June 21, 2017 and the third event on July 19 and 20, 2017 involved two additional episodes of soil arsenic delineation near the former maintenance shop (S-3, S-4, S-7, S-8, S-13 through S-18, S-20, and S-22 through S-29). The soil samples from all three events were analyzed by Analytical Environmental Services, Inc. in Atlanta, Georgia. Soil analytical results were evaluated with respect to calculated Site-specific RRS, detailed in Section 4.

3.2.2 Sample Locations

Main Facility Building

Soil samples were collected from four interior locations beneath the main facility building and two exterior locations immediately to the northeast of the building. These sample locations were selected for the purpose of delineating previously identified exceedances of the Residential RRS for PCE (sampled in May 2016). The interior sample locations were accessed from the building's partial basement, where four-inch diameter concrete cores were cut from the floor. Soil samples were collected from each location at depths of 2 feet below ground surface (ft-bgs) and 4 ft-bgs using a hand auger.

Former Maintenance Shop

Twenty-one exterior locations adjacent to the former maintenance shop were sampled with a hand auger or direct-push drill rig, ranging in depth from 0.5 ft-bgs to 4.0 ft-bgs. The sample locations were selected as needed to delineate exceedances of Residential RRS, in this case, primarily soil arsenic.

3.2.3 Sample Collection

Soil samples for VOC analysis were prepared following EPA Method 5035, with an approximate sample size of five grams collected directly from the auger bucket using a disposable soil sampling syringe. The soil samples were immediately sealed in respective laboratory-prepared 40-milliliter vials. Soil samples for metals analysis were collected from a representative soil sample from the auger bucket using a stainless-steel spoon and sealed in a 4-ounce glass jar. The hang auger and sampling spoon was decontaminated between each sample. All samples were placed on ice following collection.

3.3 Comprehensive Analytical Soil Results

3.3.1 Main Facility Building

Soil test results for PCE are illustrated on Figures 3a and 3b with respect to RRS as calculated in Section 4. The basis of the presented Residential RRS and Non-Residential RRS for PCE is protection of groundwater, whereas the respective RRS for direct exposure to soil are higher (Appendix C). Figure 3a reports the soil test result for the shallow sample from each assessment location and Figure 3b reports the soil test result for the paired deeper sample. Exceedances of the residential RRS for PCE (0.5 milligrams per kilogram [mg/kg]) in shallow soil are reported in five locations, four which occur beneath the building (SB-8, SB-9, SB-11, and SB-16) and are consistent with the location of the former dry cleaning operation. The fifth shallow soil sample (SB-3) reporting PCE above the Residential RRS occurs near the loading dock at the backside (north) of the building. These five samples also exceed the Non-Residential RRS for PCE of 0.89 mg/kg. As shown on Figure 3a, exceedances of PCE in shallow soil are bounded by samples reporting PCE below the Residential RRS.

Test results for the deeper soil PCE condition exhibit a spatial profile consistent with the shallow soil condition. Four locations beneath the building exceed both the Residential and Non-Residential RRS for PCE (SB-8, SB-9, SB-11, and SB-16). Additionally, two adjacent samples (SB-10 and SB-12) exceed the Residential RRS, but are less than the Non-Residential RRS. As shown on Figure 3b, deep soil is delineated to the Residential RRS.

3.3.2 Former Maintenance Shop

Arsenic

Arsenic was detected above both the Residential RRS (20 mg/kg) and Non-Residential RRS (38 mg/kg) in one interior soil sample (S-1) at 0.5 ft-bgs in May 2016 (Figure 4a). Follow-up delineation sampling found arsenic concentrations above the Residential RRS along two exterior sides of the former maintenance shop (S-3 and S-4), requiring additional step-outs to complete the soil assessment. Further interior sampling (i.e. beneath the building) is obstructed by foundation walls and piers. Arsenic concentrations in shallow surface soil (< 0.5 ft-bgs) ranges from non-detect to 101 mg/kg with results from six samples above the Residential RRS, three of which are

also above the Non-Residential RRS (Figure 4a). Shallow soil samples tend to exhibit higher concentrations immediately northeast of the former maintenance shop.

Soil samples collected from 1-2 ft-bgs also exhibit a grouping of higher arsenic concentrations near the northeast side of the former maintenance shop and ranges from non-detect to 83.5 mg/kg (Figure 4b). Soil from 1-2 ft-bgs is delineated to the Residential RRS with a single exception at S-26, which reported arsenic at 21.3 mg/kg, slightly above the Residential RRS of 20 mg/kg. The corresponding shallow (< 0.5 ft-bgs) and deep (4 ft-bgs) samples at S-26 are both below the Residential RRS.

Soil from 2-4 ft-bgs exhibits overall lower arsenic concentrations ranging from non-detect to 21.1 mg/kg (Figure 4c). Two samples collected at 4 ft-bgs are reported slightly above the Residential RRS at 20.7 mg/kg (S-14) and 21.1 mg/kg (S-29), but below the Non-Residential RRS of 38 mg/kg.

Benzene

Benzene was detected above Residential/Non-Residential RRS of 0.5 mg/kg, which is based on protection of groundwater and not direct soil contact, in one interior soil sample (S-2) at 0.5 ft-bgs in May 2016 (Figure 5a). The sample was collected from shallow stained soil adjacent to mechanical equipment. Follow-up delineation sampling performed on June 2, 2017 found benzene to be non-detect or below the Residential RRS in soil surrounding the former maintenance shop, thus finding the benzene condition limited to the interior of the building. Soil benzene concentrations are non-detect or below the Residential RRS in soil samples collected at a depth of 1.0 ft-bgs (Figure 5b).

Lead

Lead was detected above both the Residential RRS of 270 mg/kg and the Non-Residential RRS of 400 mg/kg in one interior soil sample (S-1) at 0.5 ft-bgs in May 2016 (Figure 6a). Follow-up delineation sampling performed on June 2, 2017 found lead to be below (Figure 6a) the Residential RRS in soil surrounding the former maintenance shop. Soil lead concentrations are below the Residential RRS in soil samples collected at a depth of 1.0 ft-bgs (Figure 6b).

4 CALCULATION OF SITE-SPECIFIC RRS

4.1 Overview

Calculation of Site-specific Type 1 through Type 4 RRS for soil and groundwater are presented in this section. The RRS levels were developed consistent with the following references:

- Georgia Department of Natural Resources Environmental Protection Division (EPD) Hazardous Site Response Act (HSRA) rules and regulations (Chapter §391-3-19; GA EPD Reg §391-3-19);
- HSRA Guidance (www.georgiaepd.org/documents/hsraguideCSRRS.html); and
- Risk Assessment Guidance for Superfund (RAGS), Volume I – Human Health Evaluation Manual Part B, Development of Risk Based Preliminary Remediation Goals [EPA, 1991].

Worksheet files used to calculate the soil Type 1, Type 2, Type 3, and Type 4 RRS are in Appendix C. The worksheets contain physical and chemical properties for the various chemicals as well as toxicity criteria and exposure assumptions.

4.2 Selection of Constituents of Potential Concern

The constituents of interest (COI) used in the derivation of RRS included all constituents detected in soil or groundwater that are regulated in Appendix I, Regulated Substances and Soil Concentrations of the Hazardous Site Response Rules ("Rules"). Table C1 shows the constituents detected in soil or groundwater and HSRA look-up values for the constituents that are used in the RRS calculations.

4.3 Receptors and Pathways of Interest

Per HSRA regulations, the Type 1 through Type 4 RRSs determination includes the following receptors:

- Type 1:
  - Adult residential receptor having direct contact with soil (incidental soil ingestion, inhalation of volatiles and/or fugitive dust); and
  - Leaching from soil to groundwater based on default values.
- Type 2:
  - Adult or child residential receptor having direct contact with soil (incidental soil ingestion, inhalation of volatiles and/or fugitive dust) or groundwater (incidental ingestion and inhalation of volatiles); and
  - Leaching from soil to groundwater using risk-based groundwater values for residents.

- Type 3:
  - Industrial Worker having direct contact with soil (incidental soil ingestion, inhalation of volatiles and/or fugitive dust); and
  - Leaching from soil to groundwater based on default values.
- Type 4:
  - Industrial Worker having direct contact with soil (incidental soil ingestion, inhalation of volatiles and/or fugitive dust) or groundwater (incidental ingestion and inhalation of volatiles); and
  - Leaching from soil to groundwater using risk-based groundwater values for industrial workers.
  -

The Residential RRS is the higher of the Type 1 and Type 2 RRS. Similarly, the Non-Residential RRS is the higher of the Type 3 and Type 4 RRS.

4.4 Sources of Toxicity Values and Physical/Chemical Factors

Table C2 shows the physical-chemical parameters used in the calculations and Table C3 shows the toxicity values used. EPD endorses the use of EPA's Regional Screening Level (RSL) table[1] as sources of both toxicity criteria and physical-chemical factors. The most recent publication from June 2017 was used in the calculations.

4.5 Risk and Hazard Calculations

Table C4 and C5 shows the risk and hazard calculations for exposure to groundwater. Table C6 and A7 shows the risk and hazard calculations for exposure to soil. The equations used were obtained from EPA's RAGS document (EPA, 1991), per the HSRA Rules. The equations are shown on each Table and below the equations are the exposure factors relating to the adult resident, child resident and industrial worker scenarios. The exposure factors are either from the HSRA Rules or HSRA Guidance.

Lead in soil is handled differently than other constituents. Calculations for lead in children and adults are shown in Table C8 and Table C9 per the HSRA Rules.

4.6 RRS Calculations

- The Residential RRS (Type 1 and 2) calculations for groundwater are shown in Table C10. The Non-Residential RRS (Type 3 and 4) calculations for groundwater are shown in Table C11.

[1] http://www.epa.gov/reg3hwmd/risk/human/rbconcentration_table/Generic_Tables/index.htm

In order to determine the soil RRS, it is first necessary to calculate the protection of groundwater soil screening levels (SSLs). The equations presented in the Supplemental Soil Screening Guidance [EPA, 1996, 2002] were utilized to calculate generic, conservative soil screening levels protective of the groundwater for both residents and industrial workers. SSL values were calculated using a default dilution-attenuation factor of 20. SSL calculations are shown in Table C12. The Residential and Non-Residential RRS calculations for soil are presented in Table C13 and Table C14, respectively.

A summary of all of the RRSs is shown in Table C15.

5 RISK ASSESSMENT UPDATE

5.1 On-Site Receptors

All on-Site structures are currently unoccupied and no plans to occupy the property exist.

5.2 Off-Site Receptors

As provided in the VRP Progress Report #3, the off-Site residence nearest the VOC plume was reoccupied during the second half of 2016. Upon discovery of the property occupancy, additional indoor air sampling was performed to confirm prior test results (i.e., no Site-related chemicals were detected) and did not detect chemicals present in the groundwater VOC plume. Other VOCs (not present in the groundwater plume) were detected in the indoor air. Detected VOCs are below residential screening values (10^{-6} target cancer risk) developed by the EPA for human health protection (U.S. EPA, 2016) with the exception of benzene. Benzene is not detected in on-Site or off-Site groundwater.

The indoor air test results have been submitted to the property owner.

6 PLANNED ACTIVITIES FOR NEXT REPORTING PERIOD

A corrective action plan to address soil and groundwater will be prepared and submitted with VRP Progress Report #5, due on January 22, 2018.

7 UPDATES TO THE PRELIMINARY CONCEPTUAL SITE MODEL (CSM)

The CSM is unchanged from the VRP Progress Report #3 submittal.

8 REFERENCES

EPS (2015). Voluntary Investigation and Remediation Plan, Grantville Mill, Grantville, Georgia. March 26, 2015.

EPD (2015). HSI Site Number 10912, Voluntary Investigation and Remediation Plan Approval Letter, Dated July 22, 2015.

Environmental Protection Agency (EPA) (1991) Risk Assessment Guidance for Superfund: Volume I – Human Health Evaluation Manual (Part B, Development of Preliminary Remediation Goals. Interim. EPA/540/R-92/003. Publication 9285.7-01B. December 1991.

Environmental Protection Agency (EPA) (1996) Soil Screening Guidance: Technical Background Document. EPA/540/R95/128. May 1996.

Environmental Protection Agency (EPA) (2002) Supplemental Guidance for Developing Soil Screening Levels at Superfund Sites. OSWER 9355.4-24. December 2002.

TABLES

Table 1.
Summary of Soil Test Results for HSRA Regulated Substances: VOCs

Location / Sample Depth (feet)	2-Butanone (MEK)	4-Methyl-2-pentanone	Acetone	Benzene	Cyclohexane	Ethyl benzene	Isopropylbenzene	m&p-Xylene	o-Xylene	Tetrachloroethene	Toluene
Residential RRS	200	200	400	0.5	74	70	22	20	20	0.5	100
non-Residential RRS	200	200	400	0.5	364	70	34	20	20	0.89	100
Former Maintenance Shop Soil Samples											
S-1											
0.5	ND	1.8	ND	ND	2	0.53	ND	3.8	2.4	ND	2.7
1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
S-2											
0.5	ND	ND	ND	0.97	1.7	0.61	0.24	4.4	2.4	ND	6.1
1	0.034	ND	0.28	ND	ND	ND	ND	ND	ND	ND	ND
S-3											
0.5	ND	ND	0.2	0.0065	ND	ND	ND	ND	ND	ND	ND
1	ND	ND	0.23	0.0062	ND	ND	ND	ND	ND	ND	ND
S-4											
0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0092
1	ND	ND	0.16	ND	ND	ND	ND	ND	ND	ND	ND
S-5											
0.5	ND	ND	0.11	ND	ND	ND	ND	ND	ND	ND	ND
1	ND	ND	0.1	ND	ND	ND	ND	ND	ND	ND	ND
S-6											
0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Main Facility Building Soil Samples											
SB-1											
5	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.01	ND
8	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.047	ND
SB-2											
5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-3											
5	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.96**	ND
10	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.11	ND

Units: mg/kg
ND: non-detect
RRS: Risk Reduction Standard

Underline: Exceeds Residential RRS
Bold: Exceeds non-Residential RRS

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Residential RRS	200	200	400	0.5	74	70	22	20	20	0.5	100
non-Residential RRS	200	200	400	0.5	364	70	34	20	20	0.89	100
SB-4											
5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-5											
5	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.02	ND
10	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.082	ND
SB-6											
5	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0092	ND
9	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.041	ND
SB-7											
5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-8											
2	ND	ND	ND	ND	ND	ND	ND	ND	ND	**3**	ND
14	ND	ND	ND	ND	ND	ND	ND	ND	ND	**2.3**	ND
SB-9											
2	ND	ND	0.081	ND	ND	ND	ND	ND	ND	**1.1**	ND
13.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1.3**	ND
SB-10											
2	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0044	ND
13.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.67	ND
SB-11											
2	ND	ND	0.07	ND	ND	ND	ND	ND	ND	**10**	ND
12	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1.4**	ND
SB-12											
2	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.051	ND
13.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.64	ND
SB-13											
2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Units: mg/kg
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Residential RRS	200	200	400	0.5	74	70	22	20	20	0.5	100
non-Residential RRS	200	200	400	0.5	364	70	34	20	20	0.89	100
SB-14											
2	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0034	ND
12	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.028	ND
SB-15											
2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.013	ND
SB-16											
2	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1.1**	ND
12	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1.3**	ND
SB-17											
2	ND	ND	0.074	ND	ND	ND	ND	ND	ND	0.0078	ND
4	ND	ND	0.075	ND	ND	ND	ND	ND	ND	ND	ND
SB-18											
2	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0043	ND
4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-19											
2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-20											
2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-21											
2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-22											
2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Units: mg/kg
ND: non-detect
RRS: Risk Reduction Standard

Underline: Exceeds Residential RRS
Bold: Exceeds non-Residential RRS

Table 2.
Summary of Soil Test Results: Metals

Location/ Sample Depth	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury
Residential RRS	20.0	2578	12.0	3600000	270	2.1
non-Residential RRS	38.0	16807	77.0	3600000	400	17.0
S-1						
0.5	**95.5**	245	6.2	15.7	**1,130**	0.22
1	ND	36.8	ND	41.8	15.8	ND
S-2						
0.5	9.5	103	ND	8.9	126	0.09
1	ND	38.7	ND	54.3	13.7	ND
S-3						
0.5	28.5			17.7	79.7	
1	33.6			14.9	60.2	
1.5	28.0					
4	ND					
S-4						
0.5	**71.7**			13.0	24.6	
1	**83.6**			22.9	30.2	
1.5	**46.4**					
4	10.0					
S-5						
0.5	8.5			48.5	42.4	
1	7.0			31.3	12.3	
S-6						
0.5	ND			33.8	23.4	
1	ND			63.1	28.2	
S-7						
0.5	22.2					
1	26.2					
2	7.2					
S-8						
0.5	ND					
1	**45.5**					
2	29.9					
4	8.8					
S-13						
0.5	ND					
1	13.5					
1.5	5.7					
S-14						
0.5	36.9					
1	22.3					
2	**67.0**					
4	20.7					
S-15						
0.5	ND					
1	ND					
2	24.7					
4	ND					

Units: mg/kg
ND: non-detect
Blank: not tested
RRS: Risk Reduction Standard

Underline: Exceeds Residential RRS
Bold: Exceeds non-Residential RRS

Table 2.
Summary of Soil Test Results: Metals

Location/ Sample Depth	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury
Residential RRS	20.0	2578	12.0	3600000	270	2.1
non-Residential RRS	38.0	16807	77.0	3600000	400	17.0
S-16						
0.5	ND					
1	ND					
3	16.0					
S-17						
0.5	ND					
1	**52.9**					
4	ND					
S-18						
0.5	ND					
1	ND					
3	ND					
S-20						
0.5	ND					
1	ND					
3	ND					
S-22						
0.5	**101**					
2	15.2					
4	18.5					
S-23						
0.5	ND					
2	ND					
4	ND					
S-24						
0.5	5.1					
2	ND					
4	ND					
S-25						
0.5	ND					
2	ND					
4	ND					
S-26						
0.5	ND					
2	21.3					
4	4.6					
S-27						
0.5	10.6					
2	**68.0**					
4	ND					

Units: mg/kg
ND: non-detect
Blank: not tested
RRS: Risk Reduction Standard

Underline: Exceeds Residential RRS
Bold: Exceeds non-Residential RRS

Table 2.
Summary of Soil Test Results: Metals

Location/ Sample Depth	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury
Residential RRS	20.0	2578	12.0	3600000	270	2.1
non-Residential RRS	38.0	16807	77.0	3600000	400	17.0
S-28						
0.5	ND					
2	5.4					
4	ND					
S-29						
0.5	8.1					
2	7.5					
4	21.1					

Units: mg/kg
ND: non-detect
Blank: not tested
RRS: Risk Reduction Standard

Underline: Exceeds Residential RRS
Bold: Exceeds non-Residential RRS

FIGURES

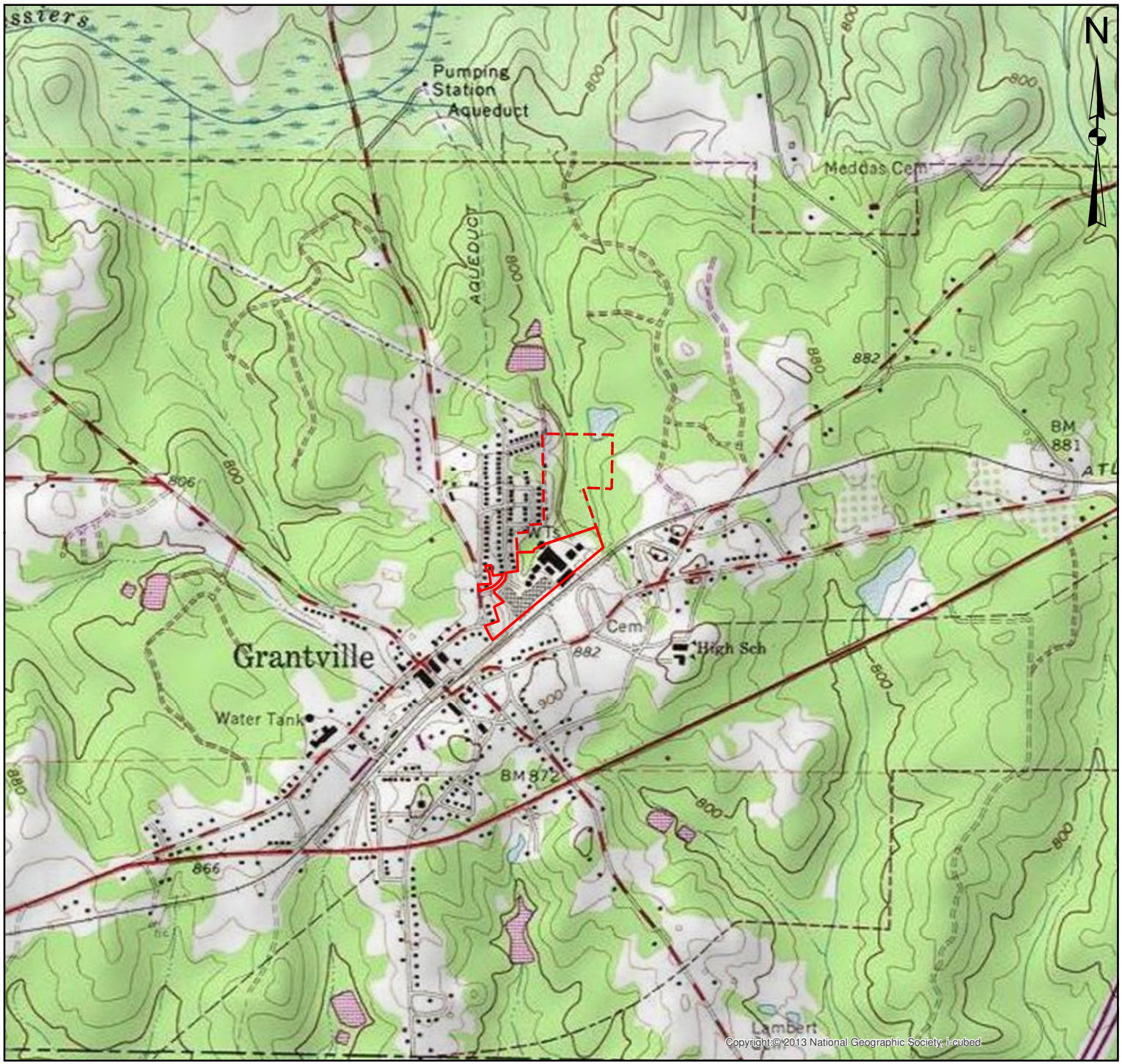


Figure 1
Site Location

Grantville Mill
Grantville, Georgia

Figure Narrative
Figure depicts Site Location and regional topographic features.

Notes
Data obtained from the U.S. Geologic Society.

Legend
- Capital City Bank Parcel
- Grantville Mill LLC Parcel

0 750 1,500
Feet

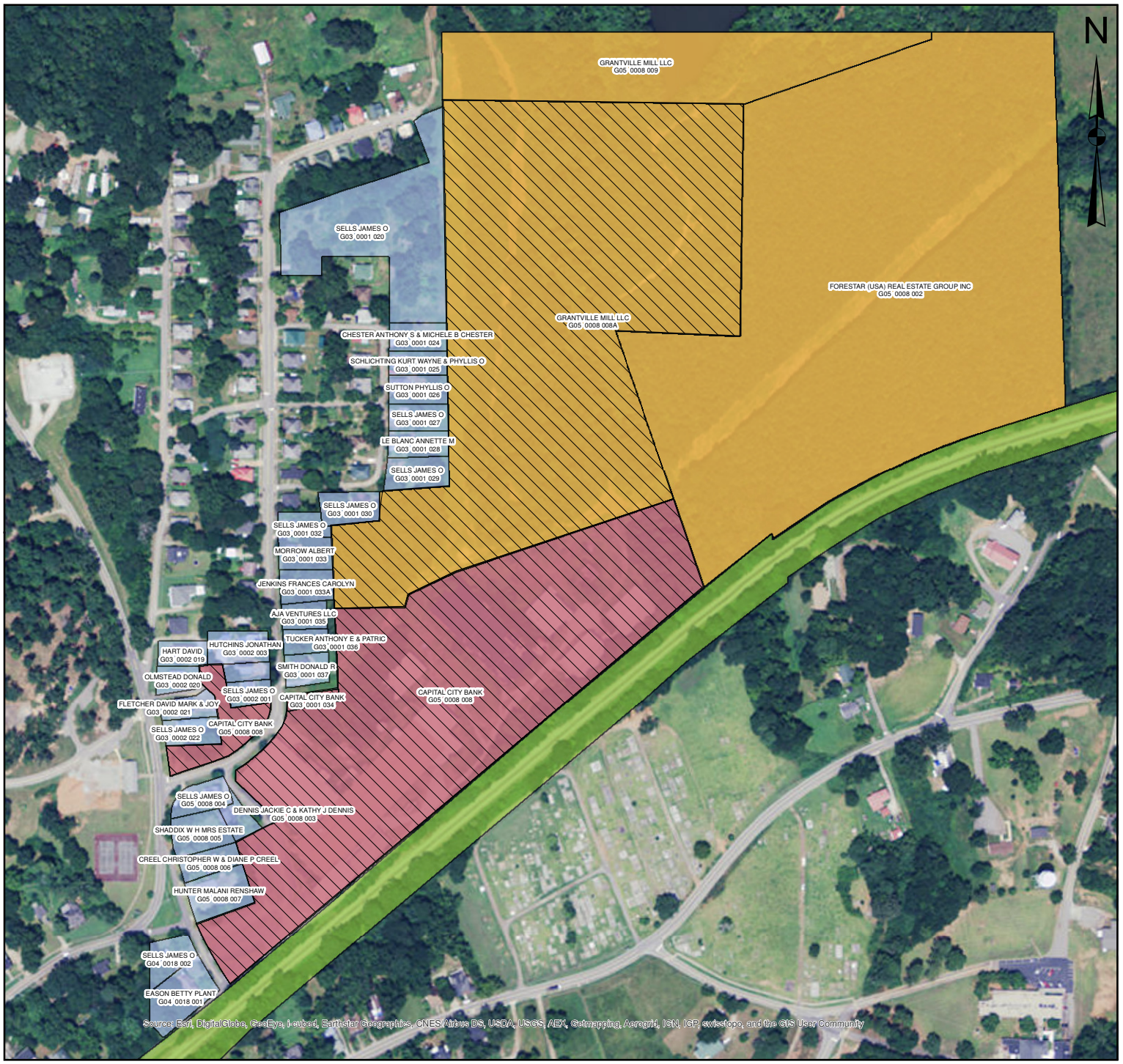


Figure 2

VRP Properties, Adjacent Land Use and Ownership

Grantville Mill
Grantville, Georgia

Figure Narrative

Figure depicts land parcel ownership, parcel number, and land use of abutting properties to the Site.

Notes

Data obtained from the Coweta County Georgraphic Information System.

Legend

Land Use

- Forested/Unoccupied
- Commercial/Industrial
- Residential
- Rail Road

VRP Property Status

- VRP Enrolled Property

0 175 350
Feet

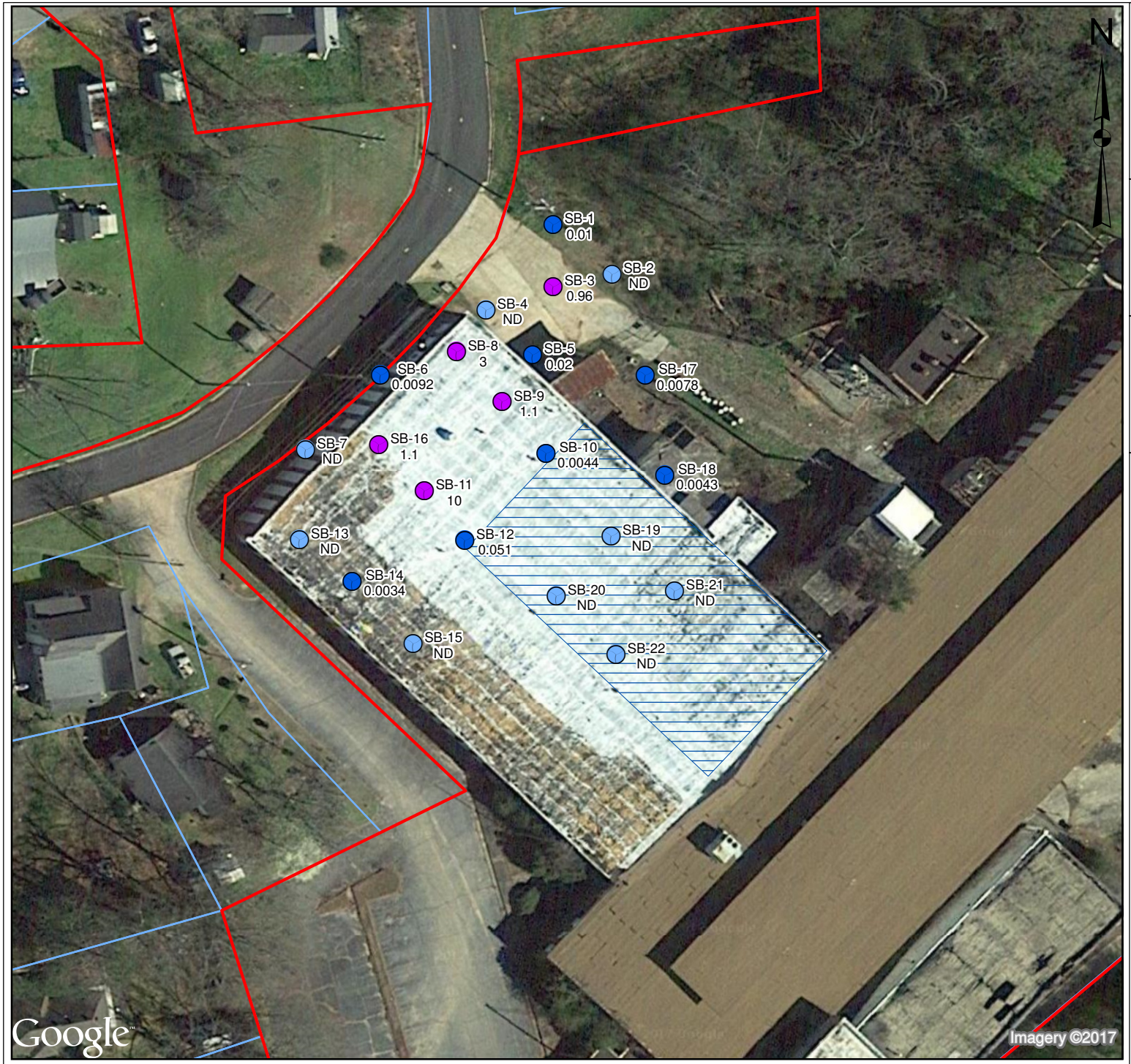


Figure 3a

PCE Soil Delineation:
Main Facility Building
Shallow Soil Test Results

Grantville Mill
Grantville, Georgia

Figure Narrative

Figure depicts soil test results for PCE.

Notes

RRS: Risk Reduction Standard
Res: Residential
nRes: non-Residential
ND: non-detect

Legend

Property Information

- Capital City Bank Parcel
- Off-Site Parcels
- Building Partial Basement

PCE Shallow Sample

- Non-detect
- < Res RRS (0.5 mg/kg)
- > Res RRS
- > nRes RRS (0.89 mg/kg)

0 30 60
Feet

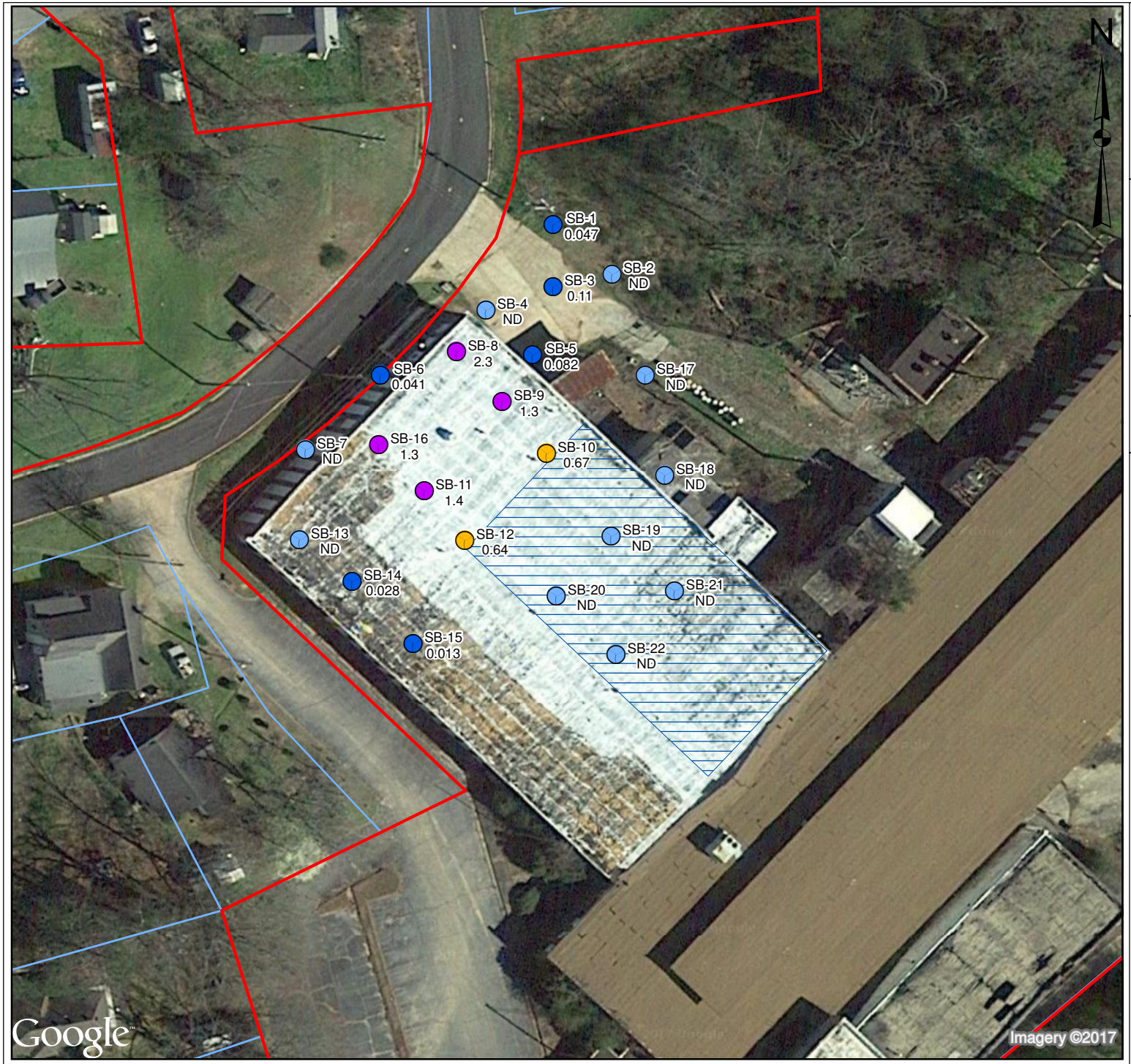


Figure 3b

PCE Soil Delineation:
Main Facility Building
Deep Soil Test Results

Grantville Mill
Grantville, Georgia

Figure Narrative

Figure depicts soil test results for PCE.

Notes

RRS: Risk Reduction Standard
Res: Residential
nRes: non-Residential
ND: non-detect

Legend

Property Information

- Capital City Bank Parcel
- Off-Site Parcels
- Building Partial Basement

PCE Deep Sample

- Non-detect
- < Res RRS (0.5 mg/kg)
- > Res RRS
- > nRes RRS (0.89 mg/kg)

0 30 60
Feet

Figure 4a

Arsenic Soil Delineation:
Maintenance Shop 0.5 ft-bgs

Grantville Mill
Grantville, Georgia

Figure Narrative

Figure depicts soil test results for Arsenic.

Notes

RRS: Risk Reduction Standard
Res: Residential
nRes: non-Residential
ND: non-detect

Legend

Property Information

- Capital City Bank Parcel
- Off-Site Parcels

Arsenic 0.5 ft

- Non-detect
- < Res RRS (20 mg/kg)
- > Res RRS
- > nRes RRS (38 mg/kg)

0 15 30
Feet

Figure 4b

Arsenic Soil Delineation:
Maintenance Shop 1-2 ft-bgs

Grantville Mill
Grantville, Georgia

Figure Narrative

Figure depicts soil test results for Arsenic.

Notes

RRS: Risk Reduction Standard
Res: Residential
nRes: non-Residential
ND: non-detect

Legend

Property Information

Capital City Bank Parcel

Off-Site Parcels

Arsenic 1-2 ft

- Non-detect
- < Res RRS (20 mg/kg)
- > Res RRS
- > nRes RRS (38 mg/kg)

0 15 30
Feet

Figure 4c

Arsenic Soil Delineation:
Maintenance Shop 2-4 ft-bgs

Grantville Mill
Grantville, Georgia

Figure Narrative

Figure depicts soil test results for Arsenic.

Notes

RRS: Risk Reduction Standard
Res: Residential
nRes: non-Residential
ND: non-detect

Legend

Property Information

Capital City Bank Parcel

Off-Site Parcels

Arsenic 2-4 ft

- Non-detect
- < Res RRS (20 mg/kg)
- > Res RRS
- > nRes RRS (38 mg/kg)

0 15 30
Feet

Environmental Planning Specialists, Inc.

Figure 5a

Benzene Soil Delineation:
Maintenance Shop 0.5 ft-bgs

Grantville Mill
Grantville, Georgia

Figure Narrative

Figure depicts soil test results for Benzene.

Notes

RRS: Risk Reduction Standard
Res: Residential
nRes: non-Residential
ND: non-detect

Legend

Property Information

- Capital City Bank Parcel
- Off-Site Parcels

Benzene 0.5 ft

- Non-detect
- < Res/nRes RRS (0.5 mg/kg)
- > Res/nRes RRS

0 15 30
Feet

Figure 5b

Benzene Soil Delineation:
Maintenance Shop 1 ft-bgs

Grantville Mill
Grantville, Georgia

Figure Narrative

Figure depicts soil test results for Benzene.

Notes

RRS: Risk Reduction Standard
Res: Residential
nRes: non-Residential
ND: non-detect

Legend

Property Information

Capital City Bank Parcel

Off-Site Parcels

Benzene 1.0 ft

Non-detect

< Res/nRes RRS (0.5 mg/kg)

> Res/nRes RRS

0 15 30
Feet

Figure 6a

Lead Soil Delineation:
Maintenance Shop 0.5 ft-bgs

Grantville Mill
Grantville, Georgia

Figure Narrative

Figure depicts soil test results for Lead.

Notes

RRS: Risk Reduction Standard
Res: Residential
nRes: non-Residential

Legend

Property Information

- Capital City Bank Parcel
- Off-Site Parcels

Lead 0.5 ft

- Non-detect
- < Res RRS (270 mg/kg)
- > Res RRS
- > nRes RRS (400 mg/kg)

0 15 30
Feet

Figure 6b

Lead Soil Delineation:
Maintenance Shop 1 ft-bgs

Grantville Mill
Grantville, Georgia

Figure Narrative

Figure depicts soil test results for Lead.

Notes

RRS: Risk Reduction Standard
Res: Residential
nRes: non-Residential

Legend

Property Information

- Capital City Bank Parcel
- Off-Site Parcels

Lead 1 ft

- Non-detect
- < Res RRS (270 mg/kg)
- > Res RRS
- > nRes RRS (400 mg/kg)

0 15 30
Feet

APPENDIX A
Professional Geologist Summary of Hours

Appendix A
Professional Geologist Hours
Period: January 2017 through July 2017

Period	Hours
January 2017	4.5
February 2017	0
March 2017	0
April 2017	0
May 2017	0
June 2017	0
July 2017	2
Total:	6.5

APPENDIX B
Milestone Schedule

Appendix B
Project Milestone Schedule
Grantville Mill, GA HSI Site

			Year 1		Year 2		Year 3		Year 4		Year 5	
			6mo	12mo	18mo	24mo	30mo	36mo	42mo	48mo	54mo	60mo
ID	**Task Name**		Jan-2016	Jul-16	Jan-2017	Jul-17	Jan-2018	Jul-18	Jan-2019	Jul-19	Jan-2020	Jul-20
1	VIRP Approval (July 22, 2015)											
2	Semi-Annual Progress Reports											
3	Source Area Investigation / Soil Delineation											
4	On-site Horizontal Groundwater Delineation											
5	Off-site Horizontal Groundwater Delineation (if necessary)											
6	Vertical Groundwater Delineation (if necessary)											
7	Updated CSM, Final Remdiation Plan, and Cost Estimate											
8	Remedial Activities											
9	Compliance Status Report											

APPENDIX C
Risk Reduction Standard Worksheets

Table 1. Georgia Specific Values

Parameter	CAS #	NC (mg/kg)	Table 2 Soil (mg/kg)	Table 1 GW (mg/L)	GA MCL (mg/L)
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	
Arsenic	7440-38-2	41	20	0.01	0.01
Barium	7440-39-3	500	1000	2	2
Benzene	71-43-2	0.02		0.005	0.005
Cadmium	7440-43-9	39	2	0.005	0.005
Chloroform	67-66-3	0.68		0.08	
Chromium	7440-47-3	1200	100	0.1	0.1
cis-1,2-Dichloroethene	156-59-2	0.53		0.07	0.07
Cyclohexane	110-82-7	20			
Dichlorobromomethane	75-27-4	1.18		0.08	
Ethyl benzene	100-41-4	20		0.7	0.7
Freon-11	75-69-4	0.7		2	
Isopropylbenzene	98-82-8	21.88			
Lead	7439-92-1	400	75	0.015	
Mercury	7439-97-6	17	0.5	0.002	0.002
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
Trichloroethene	79-01-6	0.13		0.005	0.005

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 2. 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) ($atm\text{-}m^3/mol$)		Volatile	Metal Kd	Reference	Dei = Da x $E^{0.33}$	Kd* = Koc x OC	Kas =(H/Kd) x 41	α cm^2/s	VF m^3/kg
2-Butanone (MEK)	78-93-3	4.5E+00	EPI	9.1E-02	2.3E-03	5.7E-05	PHYSPROP	V			0.064670783	0.0902	0.025863636	0.000338088	7802
4-Methyl-2-pentanone	108-10-1	1.3E+01	EPI	7.0E-02	5.6E-03	1.4E-04	EPI	V			0.049348227	0.252	0.022452381	0.000224112	9590
Acetone	67-64-1	2.4E+00	EPI	1.1E-01	1.4E-03	3.5E-05	PHYSPROP	V			0.07490772	0.04728	0.0303511	0.000459134	6689
Arsenic	7440-38-2								2.9E+01	SSL					
Barium	7440-39-3								4.1E+01	SSL					
Benzene	71-43-2	1.5E+02	EPI	9.0E-02	2.3E-01	5.6E-03	PHYSPROP	V			0.063318474	2.916	0.078034979	0.000988317	4516
Cadmium (Diet)	7440-43-9								7.5E+01	SSL					
Cadmium (Water)	7440-43-9								7.5E+01	SSL					
Chloroform	67-66-3	3.2E+01	EPI	7.7E-02	1.5E-01	3.7E-03	PHYSPROP	V			0.054397637	0.6364	0.236439346	0.002493616	2756
Chromium	7440-47-3								1.8E+06	SSL					
Chromium III	16065-83-1								1.8E+06	SSL					
Chromium, hexavalent	18540-29-9								1.9E+01	SSL					
cis-1,2-Dichloroethene	156-59-2	4.0E+01	EPI	8.8E-02	1.7E-01	4.1E-03	PHYSPROP	V			0.062520469	0.792	0.211212121	0.002572766	2726
Cyclohexane	110-82-7	1.5E+02	EPI	8.0E-02	6.1E+00	1.5E-01	PHYSPROP	V			0.056556861	2.916	2.109053498	0.016966325	775
Dichlorobromomethane	75-27-4	3.2E+01	EPI	5.6E-02	8.7E-02	2.1E-03	PHYSPROP	V			0.039789141	0.6364	0.136580767	0.001074421	4281
Ethyl benzene	100-41-4	4.5E+02	EPI	6.8E-02	3.2E-01	7.9E-03	PHYSPROP	V			0.048418612	8.922	0.036211612	0.000353659	7613
Freon-11	75-69-4	4.4E+01	EPI	6.5E-02	4.0E+00	9.7E-02	PHYSPROP	V			0.046219785	0.8778	4.530644794	0.022154444	504
Isopropylbenzene	98-82-8	7.0E+02	EPI	6.0E-02	4.7E-01	1.2E-02	PHYSPROP	V			0.042647292	13.956	0.033784752	0.00029077	8400
Lead	7439-92-1								9.0E+02	BAES					
Mercury	7439-97-6			3.1E-02	3.5E-01	8.6E-03	PHYSPROP	V	5.2E+01	SSL	0.02171105				
m-Xylene	108-38-3	3.8E+02	EPI	6.8E-02	2.9E-01	7.2E-03	PHYSPROP	V			0.048348387	7.506	0.039219291	0.000382246	7318
o-Xylene	95-47-6	3.8E+02	EPI	6.9E-02	2.1E-01	5.2E-03	PHYSPROP	V			0.048740317	7.658	0.02773309	0.000273121	8678
p-Xylene	106-42-3	3.8E+02	EPI	6.8E-02	2.8E-01	6.9E-03	PHYSPROP	V			0.048265362	7.506	0.037689848	0.000366822	7473
Tetrachloroethene	127-18-4	9.5E+01	EPI	5.0E-02	7.2E-01	1.8E-02	PHYSPROP	V			0.035689855	1.8988	0.382188751	0.002571879	2639
Toluene	108-88-3	2.3E+02	EPI	7.8E-02	2.7E-01	6.6E-03	PHYSPROP	V			0.055022944	4.678	0.05819581	0.000643041	5621
Trichloroethene	79-01-6	6.1E+01	EPI	6.9E-02	4.0E-01	9.9E-03	PHYSPROP	V			0.048557648	1.214	0.332660626	0.003074409	2436

EPI: EPA's Estimation Programs Interface Suite
WATER9: EPA's WATER9 Program
PHYSPROP: Syracuse Research Coorporation PHYSPROP Database. 2005
ATSDR Profile: Agency for Toxic Substances & Disease Registry Toxicological Profiles
BAES: C.F. Baes, A Review and Analysis of Parameters for Assessing Transport of Environmı

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

$$\alpha = \frac{(D_{ei} \times E)}{E + \rho_s(1-E)/K_{as}}\ cm^2/s$$

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 cm^2 — area of contamination
π = 3.14
T = 790000000 s — exposure interval

$D_{ei} = D_i \times E^{0.33}$ cm^2/s — effective diffusivity
D_i = hemical specific — molecular diffusivity (cm^2/s)
E = 0.35 — total soil porosity
ρ_s = 2.65 g/m^3 — density of soil solids
Kas = (H/Kd) x 41 — soil/air partition coefficient (g soil/cm^3 air)
H = hemical specific — Henry's law constant ($atm\text{-}m^3/mol$)
Kd = Koc x OC — soil-water partition coefficient
Koc= hemical specific — organic carbon partition coefficient
OC = 0.02 — soil organic carbon content fraction

Table 3. Toxicity Factors

Analyte	CAS	NonCancer Toxicity Values			Cancer Toxicity Values			
		Oral RfD	Inhalation RFC	Inhalation RfD	Oral CSF	Inhalation Unit Risk	Inhalation CSF	Cancer Class
		mg/kg-day	mg/m3	mg/kg-day	per mg/kg-day	per ug/m3	per mg/kg-day	
2-Butanone (MEK)	78-93-3	6.00E-01	5.00E+00	1.43E+00				
4-Methyl-2-pentanone	108-10-1		3.00E+00	8.57E-01				
Acetone	67-64-1	9.00E-01	3.10E+01	8.86E+00				
Arsenic	7440-38-2	3.00E-04	1.50E-05	4.29E-06	1.50E+00	4.30E-03	1.51E+01	A
Barium	7440-39-3	2.00E-01	5.00E-04	1.43E-04				D
Benzene	71-43-2	4.00E-03	3.00E-02	8.57E-03	5.50E-02	7.80E-06	2.73E-02	A
Cadmium (Diet)	7440-43-9	1.00E-03	1.00E-05	2.86E-06		1.80E-03	6.30E+00	
Cadmium (Water)	7440-43-9	5.00E-04	1.00E-05	2.86E-06		1.80E-03	6.30E+00	B1
Chloroform	67-66-3	1.00E-02	9.80E-02	2.80E-02	3.10E-02	2.30E-05	8.05E-02	B2
Chromium	7440-47-3							
Chromium III	16065-83-1	1.50E+00						D
Chromium, hexavalent	18540-29-9	3.00E-03	1.00E-04	2.86E-05	5.00E-01	8.40E-02	2.94E+02	A
cis-1,2-Dichloroethene	156-59-2	2.00E-03						
Cyclohexane	110-82-7		6.00E+00	1.71E+00				
Dichlorobromomethane	75-27-4	2.00E-02			6.20E-02	3.70E-05	1.30E-01	
Ethyl benzene	100-41-4	1.00E-01	1.00E+00	2.86E-01	1.10E-02	2.50E-06	8.75E-03	
Freon-11	75-69-4	3.00E-01						
Isopropylbenzene	98-82-8	1.00E-01	4.00E-01	1.14E-01				
Lead	7439-92-1							B2
Mercury	7439-97-6		3.00E-04	8.57E-05				D
m-Xylene	108-38-3	2.00E-01	1.00E-01	2.86E-02				
o-Xylene	95-47-6	2.00E-01	1.00E-01	2.86E-02				
p-Xylene	106-42-3	2.00E-01	1.00E-01	2.86E-02				
Tetrachloroethene	127-18-4	6.00E-03	4.00E-02	1.14E-02	2.10E-03	2.60E-07	9.10E-04	B
Toluene	108-88-3	8.00E-02	5.00E+00	1.43E+00				
Trichloroethene	79-01-6	5.00E-04	2.00E-03	5.71E-04	4.60E-02	4.10E-06	1.44E-02	A

Values are from the EPA Regional Screening Level Summary Table (May 2016), except where noted

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

Table 4. Groundwater Risk Calculations

Analyte	CAS	Volatile?	Oral CSF	Inhalation CSF	RAGS Eqn. 1								
					Adult			Child			Worker		
					Ingestion	Inhalation	Total	Ingestion	Inhalation	Total	Ingestion	Inhalation	Total
			per mg/kg-day	per mg/kg-day	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
2-Butanone (MEK)	78-93-3	V											
4-Methyl-2-pentanone	108-10-1	V											
Acetone	67-64-1	V											
Arsenic	7440-38-2		1.50E+00	1.51E+01	5.68E-04		5.68E-04	1.22E-03		1.22E-03	1.91E-03		1.91E-03
Barium	7440-39-3												
Benzene	71-43-2	V	5.50E-02	2.73E-02	1.55E-02	8.32E-03	5.41E-03	3.32E-02	8.91E-03	7.03E-03	5.20E-02	1.05E-02	8.72E-03
Cadmium (Diet)	7440-43-9			6.30E+00									
Cadmium (Water)	7440-43-9			6.30E+00									
Chloroform	67-66-3	V	3.10E-02	8.05E-02	2.75E-02	2.82E-03	2.56E-03	5.89E-02	3.02E-03	2.88E-03	9.23E-02	3.55E-03	3.42E-03
Chromium	7440-47-3												
Chromium III	16065-83-1												
Chromium, hexavalent	18540-29-9		5.00E-01	2.94E+02	1.70E-03		1.70E-03	3.65E-03		3.65E-03	5.72E-03		5.72E-03
cis-1,2-Dichloroethene	156-59-2	V											
Cyclohexane	110-82-7	V											
Dichlorobromomethane	75-27-4	V	6.20E-02	1.30E-01	1.37E-02	1.75E-03	1.56E-03	2.94E-02	1.88E-03	1.77E-03	4.62E-02	2.21E-03	2.11E-03
Ethyl benzene	100-41-4	V	1.10E-02	8.75E-03	7.74E-02	2.60E-02	1.94E-02	1.66E-01	2.78E-02	2.38E-02	2.60E-01	3.27E-02	2.91E-02
Freon-11	75-69-4	V											
Isopropylbenzene	98-82-8	V											
Lead	7439-92-1												
Mercury	7439-97-6	V											
m-Xylene	108-38-3	V											
o-Xylene	95-47-6	V											
p-Xylene	106-42-3	V											
Tetrachloroethene	127-18-4	V	2.10E-03	9.10E-04	4.06E-01	2.50E-01	1.54E-01	8.69E-01	2.67E-01	2.04E-01	1.36E+00	3.14E-01	2.56E-01
Toluene	108-88-3	V											
Trichloroethene	79-01-6	V	4.60E-02	1.44E-02	1.85E-02	1.58E-02	8.53E-03	3.97E-02	1.70E-02	1.19E-02	6.22E-02	1.99E-02	1.51E-02

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

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

Note: Inhalation pathway not calculated if not volatile

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

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/m3)	K	0.5	1	0.5	1	0.5	1
Particulate Emission Factor (m3/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 5. 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	mg/L	mg/L
2-Butanone (MEK)	78-93-3	V	6.00E-01	1.43E+00	2.19E+01	1.39E+01	8.50E+00	9.39E+00	2.98E+00	2.26E+00	6.13E+01	1.46E+01	1.18E+01
4-Methyl-2-pentanone	108-10-1	V		8.57E-01		8.34E+00	8.34E+00		1.79E+00	1.79E+00		8.76E+00	8.76E+00
Acetone	67-64-1	V	9.00E-01	8.86E+00	3.29E+01	8.62E+01	2.38E+01	1.41E+01	1.85E+01	7.99E+00	9.20E+01	9.05E+01	4.56E+01
Arsenic	7440-38-2		3.00E-04	4.29E-06	1.10E-02		1.10E-02	4.69E-03		4.69E-03	3.07E-02		3.07E-02
Barium	7440-39-3		2.00E-01	1.43E-04	7.30E+00		7.30E+00	3.13E+00		3.13E+00	2.04E+01		2.04E+01
Benzene	71-43-2	V	4.00E-03	8.57E-03	1.46E-01	8.34E-02	5.31E-02	6.26E-02	1.79E-02	1.39E-02	4.09E-01	8.76E-02	7.21E-02
Cadmium (Diet)	7440-43-9		1.00E-03	2.86E-06	3.65E-02		3.65E-02	1.56E-02		1.56E-02	1.02E-01		1.02E-01
Cadmium (Water)	7440-43-9		5.00E-04	2.86E-06	1.83E-02		1.83E-02	7.82E-03		7.82E-03	5.11E-02		5.11E-02
Chloroform	67-66-3	V	1.00E-02	2.80E-02	3.65E-01	2.73E-01	1.56E-01	1.56E-01	5.84E-02	4.25E-02	1.02E+00	2.86E-01	2.24E-01
Chromium	7440-47-3												
Chromium III	16065-83-1		1.50E+00		5.48E+01		5.48E+01	2.35E+01		2.35E+01	1.53E+02		1.53E+02
Chromium, hexavalent	18540-29-9		3.00E-03	2.86E-05	1.10E-01		1.10E-01	4.69E-02		4.69E-02	3.07E-01		3.07E-01
cis-1,2-Dichloroethene	156-59-2	V	2.00E-03		7.30E-02		7.30E-02	3.13E-02		3.13E-02	2.04E-01		2.04E-01
Cyclohexane	110-82-7	V		1.71E+00		1.67E+01	1.67E+01		3.58E+00	3.58E+00		1.75E+01	1.75E+01
Dichlorobromomethane	75-27-4	V	2.00E-02		7.30E-01		7.30E-01	3.13E-01		3.13E-01	2.04E+00		2.04E+00
Ethyl benzene	100-41-4	V	1.00E-01	2.86E-01	3.65E+00	2.78E+00	1.58E+00	1.56E+00	5.96E-01	4.32E-01	1.02E+01	2.92E+00	2.27E+00
Freon-11	75-69-4	V	3.00E-01		1.10E+01		1.10E+01	4.69E+00		4.69E+00	3.07E+01		3.07E+01
Isopropylbenzene	98-82-8	V	1.00E-01	1.14E-01	3.65E+00	1.11E+00	8.53E-01	1.56E+00	2.38E-01	2.07E-01	1.02E+01	1.17E+00	1.05E+00
Lead	7439-92-1												
Mercury	7439-97-6	V		8.57E-05		8.34E-04	8.34E-04		1.79E-04	1.79E-04		8.76E-04	8.76E-04
m-Xylene	108-38-3	V	2.00E-01	2.86E-02	7.30E+00	2.78E-01	2.68E-01	3.13E+00	5.96E-02	5.85E-02	2.04E+01	2.92E-01	2.88E-01
o-Xylene	95-47-6	V	2.00E-01	2.86E-02	7.30E+00	2.78E-01	2.68E-01	3.13E+00	5.96E-02	5.85E-02	2.04E+01	2.92E-01	2.88E-01
p-Xylene	106-42-3	V	2.00E-01	2.86E-02	7.30E+00	2.78E-01	2.68E-01	3.13E+00	5.96E-02	5.85E-02	2.04E+01	2.92E-01	2.88E-01
Tetrachloroethene	127-18-4	V	6.00E-03	1.14E-02	2.19E-01	1.11E-01	7.38E-02	9.39E-02	2.38E-02	1.90E-02	6.13E-01	1.17E-01	9.81E-02
Toluene	108-88-3	V	8.00E-02	1.43E+00	2.92E+00	1.39E+01	2.41E+00	1.25E+00	2.98E+00	8.81E-01	8.18E+00	1.46E+01	5.24E+00
Trichloroethene	79-01-6	V	5.00E-04	5.71E-04	1.83E-02	5.56E-03	4.26E-03	7.82E-03	1.19E-03	1.03E-03	5.11E-02	5.84E-03	5.24E-03

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

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

Note: Inhalation pathway not calculated if not volatile

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

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	Exposure Duration x 365 days
Target hazard quotient	THQ	1	1	1	1	1	1	
Water-to-air volatilization factor (L/m3)	K	0.5	1	0.5	1	0.5	1	
Particulate Emission Factor (m3/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 6. Soil Risk Calculations

Analyte	CAS	Volatile?	VF	Oral CSF	Inhalation CSF	RAGS Eqn. 6								
						Adult			Child			Worker		
						Ingestion	Inhalation	Total	Ingestion	Inhalation	Total	Ingestion	Inhalation	Total
				per mg/kg-day	per mg/kg-day	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
2-Butanone (MEK)	78-93-3	V	7802											
4-Methyl-2-pentanone	108-10-1	V	9590											
Acetone	67-64-1	V	6689											
Arsenic	7440-38-2			1.50E+00	1.51E+01	9.96E+00	3.49E+04	9.96E+00	6.08E+00	3.74E+04	6.08E+00	3.82E+01	4.40E+04	3.81E+01
Barium	7440-39-3													
Benzene	71-43-2	V	4516	5.50E-02	2.73E-02	2.72E+02	1.88E+01	1.76E+01	1.66E+02	2.01E+01	1.79E+01	1.04E+03	2.37E+01	2.31E+01
Cadmium (Diet)	7440-43-9				6.30E+00		8.35E+04	8.35E+04		8.94E+04	8.94E+04		1.05E+05	1.05E+05
Cadmium (Water)	7440-43-9				6.30E+00		8.35E+04	8.35E+04		8.94E+04	8.94E+04		1.05E+05	1.05E+05
Chromium	7440-47-3													
Chromium III	16065-83-1													
Chromium, hexavalent	18540-29-9			5.00E-01	2.94E+02	2.99E+01	1.79E+03	2.94E+01	1.83E+01	1.92E+03	1.81E+01	1.14E+02	2.25E+03	1.09E+02
Cyclohexane	110-82-7	V	775											
Ethyl benzene	100-41-4	V	7613	1.10E-02	8.75E-03	1.36E+03	9.88E+01	9.21E+01	8.30E+02	1.06E+02	9.39E+01	5.20E+03	1.24E+02	1.22E+02
Isopropylbenzene	98-82-8	V	8400											
Lead	7439-92-1													
Mercury	7439-97-6	V												
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	2.10E-03	9.10E-04	7.12E+03	3.29E+02	3.15E+02	4.35E+03	3.53E+02	3.26E+02	2.73E+04	4.15E+02	4.09E+02
Toluene	108-88-3	V	5621											

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

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

Note: VF not used if constituent is not volatile

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

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	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
Particulate Emission Factor (m3/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 7. Soil Hazard Calculations

Analyte	CAS	Volatile?	VF	Oral RfD	Inhalation RfD	RAGS Eqn. 7								
						Adult			Child			Worker		
						Ingestion	Inhalation	Total	Ingestion	Inhalation	Total	Ingestion	Inhalation	Total
				mg/kg-day	mg/kg-day	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
2-Butanone (MEK)	78-93-3	V	7802	6.00E-01	1.43E+00	3.84E+05	5.42E+04	4.75E+04	4.69E+04	1.16E+04	9.32E+03	1.23E+06	5.70E+04	5.44E+04
4-Methyl-2-pentanone	108-10-1	V	9590		8.57E-01		4.00E+04	4.00E+04		8.57E+03	8.57E+03		4.20E+04	4.20E+04
Acetone	67-64-1	V	6689	9.00E-01	8.86E+00	5.76E+05	2.88E+05	1.92E+05	7.04E+04	6.18E+04	3.29E+04	1.84E+06	3.03E+05	2.60E+05
Arsenic	7440-38-2			3.00E-04	4.29E-06	1.92E+02	9.66E+04	1.92E+02	2.35E+01	2.07E+04	2.34E+01	6.13E+02	1.01E+05	6.10E+02
Barium	7440-39-3			2.00E-01	1.43E-04	1.28E+05	3.22E+06	1.23E+05	1.56E+04	6.90E+05	1.53E+04	4.09E+05	3.38E+06	3.65E+05
Benzene	71-43-2	V	4516	4.00E-03	8.57E-03	2.56E+03	1.88E+02	1.75E+02	3.13E+02	4.04E+01	3.58E+01	8.18E+03	1.98E+02	1.93E+02
Cadmium (Diet)	7440-43-9			1.00E-03	2.86E-06	6.40E+02	6.44E+04	6.34E+02	7.82E+01	1.38E+04	7.78E+01	2.04E+03	6.76E+04	1.98E+03
Cadmium (Water)	7440-43-9			5.00E-04	2.86E-06	3.20E+02	6.44E+04	3.19E+02	3.91E+01	1.38E+04	3.90E+01	1.02E+03	6.76E+04	1.01E+03
Chromium	7440-47-3													
Chromium III	16065-83-1			1.50E+00		9.61E+05		9.61E+05	1.17E+05		1.17E+05	3.07E+06		3.07E+06
Chromium, hexavalent	18540-29-9			3.00E-03	2.86E-05	1.92E+03	6.44E+05	1.92E+03	2.35E+02	1.38E+05	2.34E+02	6.13E+03	6.76E+05	6.08E+03
Cyclohexane	110-82-7	V	775		1.71E+00		6.47E+03	6.47E+03		1.39E+03	1.39E+03		6.79E+03	6.79E+03
Ethyl benzene	100-41-4	V	7613	1.00E-01	2.86E-01	6.40E+04	1.06E+04	9.08E+03	7.82E+03	2.27E+03	1.76E+03	2.04E+05	1.11E+04	1.05E+04
Isopropylbenzene	98-82-8	V	8400	1.00E-01	1.14E-01	6.40E+04	4.67E+03	4.35E+03	7.82E+03	1.00E+03	8.88E+02	2.04E+05	4.91E+03	4.79E+03
Lead	7439-92-1													
Mercury	7439-97-6	V			8.57E-05		1.93E+06	1.93E+06		4.14E+05	4.14E+05		2.03E+06	2.03E+06
m-Xylene	108-38-3	V	7318	2.00E-01	2.86E-02	1.28E+05	1.02E+03	1.01E+03	1.56E+04	2.18E+02	2.15E+02	4.09E+05	1.07E+03	1.07E+03
o-Xylene	95-47-6	V	8678	2.00E-01	2.86E-02	1.28E+05	1.21E+03	1.20E+03	1.56E+04	2.59E+02	2.54E+02	4.09E+05	1.27E+03	1.26E+03
p-Xylene	106-42-3	V	7473	2.00E-01	2.86E-02	1.28E+05	1.04E+03	1.03E+03	1.56E+04	2.23E+02	2.20E+02	4.09E+05	1.09E+03	1.09E+03
Tetrachloroethene	127-18-4	V	2639	6.00E-03	1.14E-02	3.84E+03	1.47E+02	1.41E+02	4.69E+02	3.15E+01	2.95E+01	1.23E+04	1.54E+02	1.52E+02
Toluene	108-88-3	V	5621	8.00E-02	1.43E+00	5.12E+04	3.91E+04	2.22E+04	6.26E+03	8.37E+03	3.58E+03	1.64E+05	4.10E+04	3.28E+04

Notes:

Lead SSL based on IEUBK model

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

Inhalation C (mg/kg) = $\frac{THI \times BW \times AT}{EF \times ED \times (1/RfDi \times IRa \times (1/VF + 1/PEF))}$ Note: VF not used if constituent is not volatile

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

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	Exposure Duration x 365 days
Target hazard quotient	THQ	1.00E+00	1	1.00E+00	1	1.00E+00	1	
Water-to-air volatilization factor (L/m3)	K	0.5	1	0.5	1	0.5	1	
Particulate Emission Factor (m3/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 8 - Inputs to IEUBK Model (version 1.1 Build 11)

Input Parameter	Values/Units	Source
Outdoor Air Pb Conc.	0.1 µg/m^3	IEUBK default
Indoor Air Pb Conc as a percentage of outdoor	0.3	IEUBK default
Dietary Pb Intake (0-1 yr)	2.26 µg/day	IEUBK default
Dietary Pb Intake (1-2 yr)	1.96 µg/day	IEUBK default
Dietary Pb Intake (2-3 yr)	2.13 µg/day	IEUBK default
Dietary Pb Intake (3-4 yr)	2.04 µg/day	IEUBK default
Dietary Pb Intake (4-5 yr)	1.95 µg/day	IEUBK default
Dietary Pb Intake (5-6 yr)	2.05 µg/day	IEUBK default
Dietary Pb Intake (6-7 yr)	2.22 µg/day	IEUBK default
Drinking Water Pb Conc	4 µg/L	IEUBK Default
Maternal Blood Pb Conc.	1 µg/dL	IEUBK Default
Alternate Pb Intake	0 µg/day	IEUBK default
Soil/dust ingestion weighting factor	45%	IEUBK default
Total Percent Accessible – soil	30%	IEUBK default
Total Percent Accessible- dust	30%	IEUBK default
Total Percent Accessible – diet	50%	IEUBK default
Total Percent Accessible – water	50%	IEUBK default
Fraction Passive/Total Percent	0.2	IEUBK default
Half saturation level	100 µg/day	IEUBK default
Cutoff Conncentration	10 µg/dL	IEUBK default
Geometric Standard Deviation (GSD)	1.6 µg/dL	IEUBK default
Probability of Exceeding Cutoff	5%	IEUBK default

Notes:

Running the IEUBK model with default input parameters for non-soil lead exposure to calculate a soil concentration that corresponds to 95% of the population with a blood lead level at or below 10 ug/dL yeilds a soil concentration of **418 mg/kg**.

The figure below is output from the IEUBK model showing the probability distribution of blood lead levels for child exposued to an average concentration of **418 mg/kg** lead in soil.

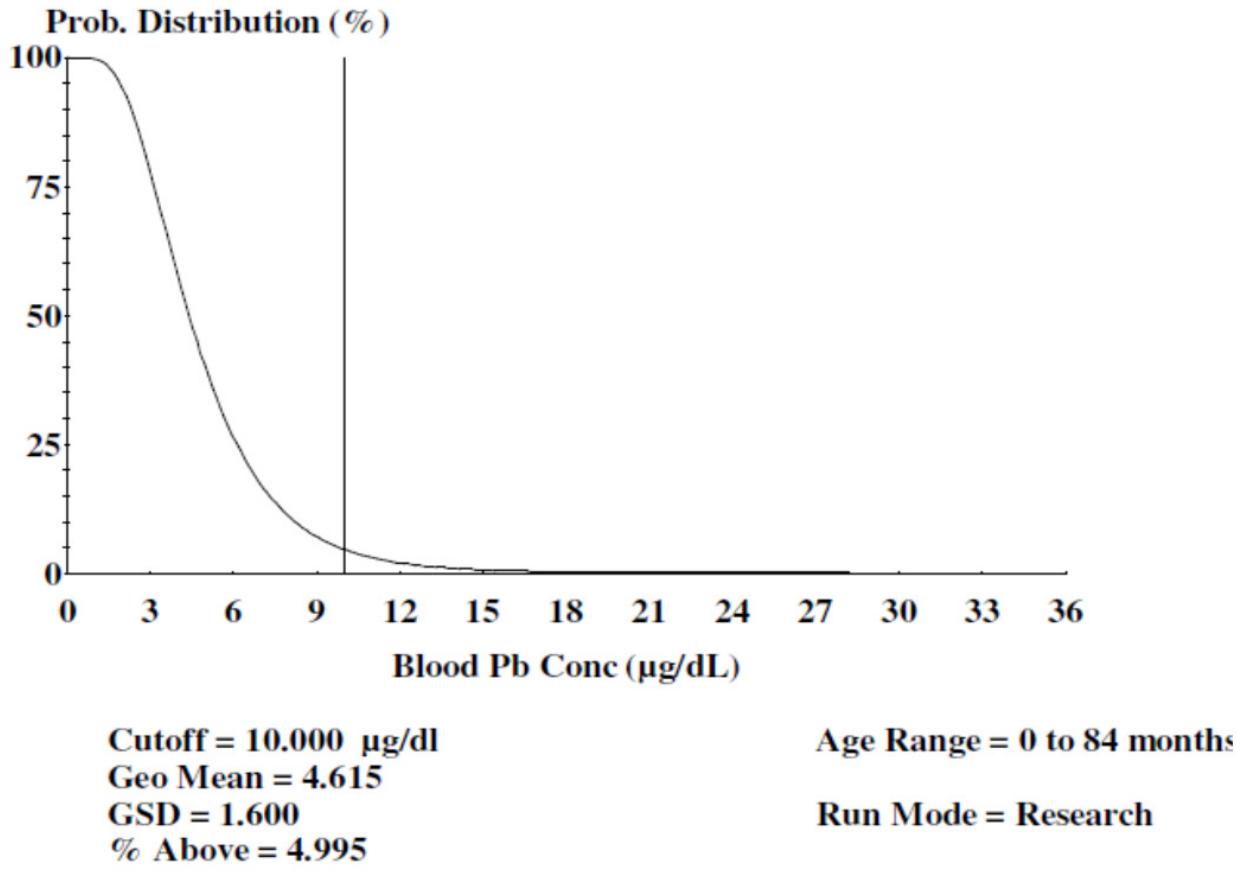


Table 9. Adult Lead Model

Parameter	Value	Description
R	0.9	Constant of proportionality between fetal blood lead concentration at birth and maternal blood lead concentration (unitless)
GSD	2.04	Geometric standard deviation of blood lead concentration among the exposed adult population , specifically women of child-bearing age (unitless)
PbBfetal	10	The blood lead goal for the unborn fetus, defined as the concentration which will have a 95% probability of not being exceeded (µg/dL)
PbB	3.44	calculated
PbBb	1.38	Typical blood lead concentration in adults, specifically women of child-bearing age, in the absence of exposures to the site that is being assessed (µg/dL) [baseline]
BSF	0.4	Biokinetic slope factor relating (quasi-steady state) increase in typical adult blood lead concentration to average daily lead uptake (µg/dL per µg/day)
EF	219	Exposure frequency for contact with assessed soils and/or dust derived in part from these soils (number of days of exposure during the year) (days/yr)
AT	365	Averaging time for continuing longterm exposures (days/yr)
Cw	15	Concentration of lead in ground water at site (µg/L); provided, however, when taken together with concentrations of lead in soil shall not exceed a PbB of 10 µg/dL
Iw	1	Intake rate of water from on-site ground water (L/day)
Aw	0.2	Absolute gastrointestinal absorption fraction for lead ingested in drinking water (unitless)
Is	0.05	Intake rate of soil, predominantly occupational exposures to indoor soil-derived dust rather than outdoor soil (g/day)
As	0.12	Absolute gastrointestinal absorption fraction for ingested lead in soil and in dust derived from soil (unitless)
Cs	**930**	**Calculated Soil Lead Concentration**

Table 10. Groundwater Residential Risk Reduction Standards

Analyte	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)								
					Item 1: RAGS Eqn 2 (NC)		Item 2: RAGS Eqn 1 (C)			Alternate, if NA			
	Table 1, App III mg/L	GA MCL mg/L	Bkg* mg/L	Type 1 GW RRS mg/L	Adult mg/L	Child mg/L	Adult mg/L	Child mg/L	Lesser of Items 1 and 2	Table 1, App III mg/L	Bkg* mg/L	Type 2 GW RRS mg/L	
2-Butanone (MEK)	2			2	8.5	2.3			2.3	2		2.3	2.3
4-Methyl-2-pentanone	2			2	8.3	1.8			1.8	2		1.8	2.0
Acetone	4			4	24	8.0			8.0	4		8.0	8.0
Arsenic	0.01	0.01		0.01	0.011	0.0047	0.00057	0.0012	0.00057	0.01		0.00057	0.01
Barium	2	2		2	7.3	3.1			3.1	2		3.1	3.1
Benzene	0.005	0.005		0.005	0.053	0.014	0.0054	0.0070	0.0054	0.005		0.0054	0.0054
Cadmium (Water)	0.005	0.005		0.005	0.018	0.0078			0.0078	0.005		0.0078	0.0078
Chloroform	0.08			0.08	0.16	0.043	0.0026	0.0029	0.0026	0.08		0.0026	0.08
Chromium	0.1	0.1		0.1						0.1		0.1	0.1
Chromium III				Bkg/DL	55	23			23			23	23
Chromium, hexavalent				Bkg/DL	0.11	0.047	0.0017	0.0037	0.0017			0.0017	0.0017
cis-1,2-Dichloroethene	0.07	0.07		0.07	0.073	0.031			0.031	0.07		0.031	0.07
Cyclohexane				Bkg/DL	17	3.6			3.6			3.6	3.6
Dichlorobromomethane	0.08			0.08	0.73	0.31	0.0016	0.0018	0.0016	0.08		0.0016	0.08
Ethyl benzene	0.7	0.7		0.7	1.6	0.43	0.019	0.024	0.019	0.7		0.019	0.7
Freon-11	2			2	11	4.7			4.7	2		4.7	4.7
Isopropylbenzene				Bkg/DL	0.85	0.21			0.21			0.21	0.21
Lead	0.015			0.015						0.015		0.015	0.015
Mercury	0.002	0.002		0.002	0.00083	0.00018			0.00018	0.002		0.00018	0.002
m-Xylene				Bkg/DL	0.27	0.058			0.058			0.058	0.058
o-Xylene				Bkg/DL	0.27	0.058			0.058			0.058	0.058
p-Xylene				Bkg/DL	0.27	0.058			0.058			0.058	0.058
Tetrachloroethene	0.005	0.005		0.005	0.074	0.019	0.15	0.20	0.019	0.005		0.019	0.019
Toluene	1	1		1	2.4	0.88			0.88	1		0.88	1
Trichloroethene	0.005	0.005		0.005	0.0043	0.0010	0.0085	0.012	0.0010	0.005		0.0010	0.005

Table 11. Groundwater Industrial Risk Reduction Standards

Analyte	TYPE 3 GW RRS	TYPE 4 GW RRS						Non-Residential RRS - higher of Type 3 and 4
	Rule 391-3-19-.07(8)(c) Same as Type 1 GW RRS	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)	Item 2 RAGS Eqn 1 (C)	Lesser of Items 1 and 2	Alternate		Type 4 GW RRS	
					Table 1 App III	Bkg*		
	mg/L	mg/L	mg/L	mg/L	mg/L		mg/L	mg/L
2-Butanone (MEK)	2	12		12	2		12	12
4-Methyl-2-pentanone	2	8.8		8.8	2		8.8	8.8
Acetone	4	46		46	4		46	46
Arsenic	0.01	0.031	0.0019	0.0019	0.01		0.0019	0.01
Barium	2	20		20	2		20	20
Benzene	0.005	0.072	0.0087	0.0087	0.005		0.0087	0.0087
Cadmium (Water)	0.005	0.051		0.051	0.005		0.051	0.051
Chloroform	0.08	0.22	0.0034	0.0034	0.08		0.0034	0.08
Chromium	0.1				0.1		0.1	0.1
Chromium III	Bkg/DL	153		153			153	153
Chromium, hexavalent	Bkg/DL	0.31	0.0057	0.0057			0.0057	0.0057
cis-1,2-Dichloroethene	0.07	0.20		0.20	0.07		0.20	0.20
Cyclohexane	Bkg/DL	18		18			18	18
Dichlorobromomethane	0.08	2.0	0.0021	0.0021	0.08		0.0021	0.080
Ethyl benzene	0.7	2.3	0.029	0.029	0.7		0.029	0.7
Freon-11	2	31		31	2		31	31
Isopropylbenzene	Bkg/DL	1.0		1.0			1.0	1.0
Lead	0.015				0.015		0.015	0.015
Mercury	0.002	0.00088		0.00088	0.002		0.00088	0.002
m-Xylene	Bkg/DL	0.29		0.29			0.29	0.29
o-Xylene	Bkg/DL	0.29		0.29			0.29	0.29
p-Xylene	Bkg/DL	0.29		0.29			0.29	0.29
Tetrachloroethene	0.005	0.098	0.26	0.098	0.005		0.098	0.098
Toluene	1	5.2		5.2	1		5.2	5.2
Trichloroethene	0.005	0.0052	0.015	0.0052	0.005		0.0052	0.0052

Table 12. Protection of Groundwater Soil Screening Level Calculations

Analyte	Physical/Chemical Properties			Type 1/2 SSL			Type 4 SSL		
	Unitless Henry's Law (H')[a]	Organic Carbon Partitioning Coefficient (Koc)	Soil-Water Partition Coefficient (Kd = Koc * OC)	Residential GW RRS (Higher of Type 1 and 2)	Target Soil Leachate Concentration (Cw = GW RRS * DAF)	Type 1/2 SSL[b]	Nonresidential GW RRS (Higher of Type 3 and 4)	Target Soil Leachate Concentration (Cw = GW RRS * DAF)	Type 4 SSL[b]
		(L/kg)	(L/kg)	(mg/L)	(mg/L)	(mg/kg)	(mg/L)	(mg/L)	(mg/kg)
2-Butanone (MEK)	2.33E-03	4.51E+00	9.02E-03	2.3	45	9.5	12	236	49
4-Methyl-2-pentanone	5.64E-03	1.26E+01	2.52E-02	2.0	40	9.0	8.8	175	40
Acetone	1.43E-03	2.36E+00	4.73E-03	8.0	160	33	46	912	187
Arsenic			2.90E+01	0.010	0.20	5.8	0.010	0.20	5.8
Barium			4.10E+01	3.1	63	2578	20	409	16807
Benzene	2.27E-01	1.46E+02	2.92E-01	0.0054	0.11	0.055	0.0087	0.17	0.089
Cadmium (Diet)			7.50E+01	0.008	0.16	12	0.05	1.0	77
Chromium			1.80E+06	0.10	2	3600000	0.10	2.0	3600000
Chromium III			1.80E+06	23	469	844714380	153	3066	5518800347
Chromium, hexavalent			1.90E+01	0.0017	0.03	0.7	0.006	0.114	2.2
Cyclohexane	6.13E+00	1.46E+02	2.92E-01	3.6	72	74	18	350	364
Ethyl benzene	3.22E-01	4.46E+02	8.92E-01	0.70	14	16	0.70	14	16
Isopropylbenzene	4.70E-01	6.98E+02	1.40E+00	0.21	4.1	6.8	1.0	21	34
Lead			9.00E+02	0.015	0.30	270	0.015	0.30	270
Mercury	3.52E-01		5.20E+01	0.0020	0.040	2.1	0.0020	0.040	2.1
m-Xylene	2.94E-01	3.75E+02	7.51E-01	0.058	1.2	1.1	0.29	5.8	5.6
o-Xylene	2.12E-01	3.83E+02	7.66E-01	0.058	1.2	1.2	0.29	5.8	5.7
p-Xylene	2.82E-01	3.75E+02	7.51E-01	0.058	1.2	1.1	0.29	5.8	5.6
Tetrachloroethene	7.24E-01	9.49E+01	1.90E-01	0.019	0.38	0.17	0.10	2.0	0.89
Toluene	2.71E-01	2.34E+02	4.68E-01	1.0	20	14	5.2	105	73

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**
0w (water-filled soil por)[c] =	**0.3**
0a (air-filled soil por)[c] = *n - 0w*	**0.13**
pb (dry soil bulk den. kg/L)[c] =	**1.5**

[a]H is set to zero for metals, with the exception of mercury

[b]equation 4-10, Supplemental SSG (USEPA 2002) (p. 4-28), **SSL = Cw*(Kd+((0w+0a*H')/pb))**

[c]Default Soil Screening Guidance Values

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

Table 13. Soil Residential Risk Reduction Standards

Analyte	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)										
	Table 2 - Appendix III	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	Bkg**	Type 1 Soil RRS
		(i): Appendix I (NC) - exclude []	(ii): Table 1 GW x 100 factor	(iii): TCLP*	Higher of i - iii	Adult	Adult	Carcin. Class	Adjusted Adult			
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg		mg/kg	mg/kg	mg/kg	mg/kg
2-Butanone (MEK)		0.79	200		200	47534				200		200
4-Methyl-2-pentanone		3.3	200		200	40003				200		200
Acetone		2.74	400		400	192186				400		400
Arsenic	20	41	1		41	192	10	A	10	10		20
Barium	1000	500	200		500	123170		D		500		1000
Benzene		0.02	0.5		0.5	175	18	A	18	0.50		0.50
Cadmium (Diet)	2	39	0.5		39	634	83454		83454	39		2
Chromium	100	1200	10		1200					1200		100
Chromium III						960526		D		960526		960526
Chromium, hexavalent						1915	29	A	29	29		29
Cyclohexane		20			20	6466				20		20
Ethyl benzene		20	70		70	9084	92		92	70		70
Isopropylbenzene		21.88			21.88	4354				22		22
Lead	75	400	1.5		400			B2		400		75
Mercury	0.5	17	0.2		17	1931371		D		17		0.5
m-Xylene		20			20	1010				20		20
o-Xylene		20			20	1195				20		20
p-Xylene		20			20	1031				20		20
Tetrachloroethene		0.18	0.5		0.5	141	315	B	315	0.5		0.5
Toluene		14.4	100		100	22168				100		100

Analyte	TYPE 2 - SOIL										Residential Soil RRS - higher of Type 1 and 2
	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	Item 2 RAGS Eqn 7 (NC)		Item 3 RAGS Eqn 6 (C)		Item 4 IEUBK***	Least of Items 1 - 4	Alternate, if NA		Type 2 RRS	
		Adult	Child	Adult	Child			Table 2, Appendix III	Bkg **		
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
2-Butanone (MEK)	9.5	47534	9316				9.5			9.5	200
4-Methyl-2-pentanone	9	40003	8572				9			9	200
Acetone	33	192186	32905				33			33	400
Arsenic	5.8	192	23	10	6.1		5.8	20		5.8	20
Barium	2578	123170	15296				2578	1000		2578	2578
Benzene	0.055	175	36	18	18		0.055			0.055	0.5
Cadmium (Diet)	12	634	78	83454	89415		12	2		12	12
Chromium	3600000						3600000	100		3600000	3600000
Chromium III	844714380	960526	117321				117321			117321	960526
Chromium, hexavalent	0.65	1915	234	29	18		0.65			0.65	29
Cyclohexane	74	6466	1386				74			74	74
Ethyl benzene	16	9084	1758	92	94		16			16	70
Isopropylbenzene	6.8	4354	888				6.8			6.8	22
Lead	270						270	75		270	270
Mercury	2.1	1931371	413865				2.1	0.5		2.1	2.1
m-Xylene	1.1	1010	215				1.1			1.1	20
o-Xylene	1.2	1195	254				1.2			1.2	20
p-Xylene	1.1	1031	220				1.1			1.1	20
Tetrachloroethene	0.17	141	29	315	326		0.17			0.17	0.5
Toluene	14	22168	3581				14			14	100

** NA - Background not determined for this Site

*** NA - Lead not a COPC

Table 14. Soil Non-Residential Risk Reduction Standards

Analyte	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: Lower of Items 1 and 2, if NA then Bkg or DL	Type 3 SB (>2') RRS: Item 1, , if NA then Bkg or DL
	(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 **		
	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
2-Butanone (MEK)	0.79	200				200	54429					54429		200	200
4-Methyl-2-pentanone	3.3	200				200	42003					42003		200	200
Acetone	2.74	400				400	259970					259970		400	400
Arsenic	41	1		20		41	610	38	A	38		38		38	41
Barium	500	200		1000		1000	364691		D			364691		1000	1000
Benzene	0.02	0.5				1	193	23	A	23		23		1	1
Cadmium (Diet)	39	0.5		2		39	1984	105152		105152		1984		39	39
Chromium	1200	10		100		1200								1200	1200
Chromium III							3066000		D			3066000		3066000	Bkg/DL
Chromium, hexavalent							6077	109	A	109		109		109	Bkg/DL
Cyclohexane	20					20	6789					6789		20	20
Ethyl benzene	20	70				70	10541	122		122		122		70	70
Isopropylbenzene	21.88					22	4791					4791		22	22
Lead	400	1.5		75	400	400			B2		400	400		400	400
Mercury	17	0.2		0.5		17	2027940		D			2027940		17	17
m-Xylene	20					20	1066					1066		20	20
o-Xylene	20					20	1263					1263		20	20
p-Xylene	20					20	1088					1088		20	20
Tetrachloroethene	0.18	0.5				0.5	152	409	B	409		152		0.5	0.5
Toluene	14.4	100				100	32801					32801		100	100

Analyte	Type 4 Soil									Non-Reidential SS	Non-Residential SB
	Item 1: Rule 391-3-19.-07(9)(d)	Item 2: Rule 391-3-19.-07(9)(d)				Alternate, if NA		Type 4 SS RRS: Lesser of Items 1 and 2	Type 4 SB RRS: Item 1		
	Type 3/4 SSL Protection of Groundwater	(i) RAGS Eqn.7 Worker NC	(ii) RAGS Eqn. 6 Worker C	(iii) Lead	Item 2: Lowest of (i),(ii) and (iii)	Table 2, Appendix III	Bkg **	if NA highest of Table 2 Appendix III, Bkg or DL			
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
2-Butanone (MEK)	49	54429			54429			49	49	200	200
4-Methyl-2-pentanone	40	42003			42003			40	40	200	200
Acetone	187	259970			259970			187	187	400	400
Arsenic	5.8	610	38		38	20		5.8	5.8	38	41
Barium	16807	364691			364691	1000		16807	16807	16807	16807
Benzene	0.089	193	23		23			0.089	0.089	1	1
Cadmium (Diet)	77	1984	105152		1984	2		77	77	77	77
Chromium	3600000					100		3600000	3600000	3600000	3600000
Chromium III	5518800347	3066000			3066000			3066000	5518800347	3066000	5518800347
Chromium, hexavalent	2.2	6077	109		109			2.2	2.2	109	2.2
Cyclohexane	364	6789			6789			364	364	364	364
Ethyl benzene	16	10541	122		122			16	16	70	70
Isopropylbenzene	34	4791			4791			34	34	34	34
Lead	270					75		270	270	400	400
Mercury	2.1	2027940			2027940	0.5		2.1	2.1	17	17
m-Xylene	5.6	1066			1066			5.6	5.6	20	20
o-Xylene	5.7	1263			1263			5.7	5.7	20	20
p-Xylene	5.6	1088			1088			5.6	5.6	20	20
Tetrachloroethene	0.89	152	409		152			0.89	0.89	0.89	0.89
Toluene	73	32801			32801			73	73	100	100

* NA - TCLP results not available for this Site

** NA - Background not determined for this Site

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

Table 15. Summary of 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
Chloroform	0.08	0.0026	0.08	0.08	0.0034	0.08
cis-1,2-Dichloroethene	0.07	0.031	0.07	0.07	0.20	0.20
Dichlorobromomethane	0.08	0.0016	0.08	0.08	0.0021	0.08
Freon-11	2	4.7	4.7	2	31	31
Tetrachloroethene	0.005	0.019	0.019	0.005	0.098	0.098
Toluene	1	0.88	1	1	5.2	5.2

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
2-Butanone (MEK)	200	9.5	200	200	200	49	49	200	200
4-Methyl-2-pentanone	200	9.0	200	200	200	40	40	200	200
Acetone	400	33	400	400	400	187	187	400	400
Arsenic	20	5.8	20	38	41	5.8	5.8	38	41
Barium	1000	2578	2578	1000	1000	16807	16807	16807	16807
Benzene	0.5	0.055	0.5	0.5	0.5	0.089	0.089	0.5	0.5
Cadmium (Diet)	2	12	12	39	39	77	77	77	77
Chromium	100	3600000	3600000	1200	1200	3600000	3600000	3600000	3600000
Chromium III	960526	117321	960526	3066000	Bkg/DL	3066000	5518800347	3066000	5518800347
Chromium, hexavalent	29	0.7	29	109	Bkg/DL	2.2	2.2	109	2
Cyclohexane	20	74	74	20	20	364	364	364	364
Ethyl benzene	70	16	70	70	70	16	16	70	70
Isopropylbenzene	22	6.8	22	22	22	34	34	34	34
Lead	75	270	270	400	400	270	270	400	400
Mercury	0.5	2.1	2.1	17	17	2.1	2.1	17	17
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

APPENDIX D
Laboratory Analytical Reports

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

June 12, 2017

Aaron Williams
Environmental Planning Specialists, Inc.

1050 Crown Pointe Parkway
Atlanta GA 30338

RE: Grantville Mill

Dear Aaron Williams: Order No: 1706259

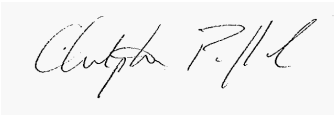
Analytical Environmental Services, Inc. received 23 samples on 6/2/2017 3:00:00 PM for the analyses presented in following report.

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:
-NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, effective 07/01/16-06/30/17.
State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/16-06/30/17 and Total Coliforms and E. coli, effective 04/25/17-04/24/20.
-NELAC/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/16-06/30/17.
-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 09/01/17.

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

3080 Presidential Drive • Atlanta, Georgia 30340 • Tel: 770.457.8177 • Fax: 770.457.8188 • Toll Free: 800.972.4889
www.aesatlanta.com

ANALYTICAL ENVIRONMENTAL SERVICES, INC.
3080 Presidential Drive Atlanta, GA 30340-3704
AES Phone: (770) 457-8177 / Toll-Free: (800) 972-4889 / Fax: (770) 457-8188

CHAIN OF CUSTODY

1706259 Work Order: _____

Date: 6-2-2017 Page 1 of 2

COMPANY: ERS Inc.

ADDRESS: 1050 Crown Pointe Pkwy, Ste. 550 Atlanta, GA 30338

PHONE: 404 315 9113

EMAIL:

SAMPLED BY: Alex Testoff, Melissa Spitzmiller

SIGNATURE: Alex Testoff Melissa Spitzmiller

#	SAMPLE ID	SAMPLED: DATE	SAMPLED: TIME	GRAB	COMPOSITE	MATRIX (see codes)	VOCs	Arsenic	Lead	Chromium	Soil Moisture	Number of Containers
							PRESERVATION (see codes)					REMARKS
							cool	I	I	I	I	
1	17153-S-3-0.5	6-2-2017	0838	X		So	X	X	X	X	X	5
2	17153-S-3-1		0842	X		So	X	X	X	X	X	5
3	17153-S-4-0.5		0854	X		So	X	X	X	X	X	5
4	17153-S-4-1		0857	X		So	X	X	X	X	X	5
5	17153-S-5-0.5		0903	X		So	X	X	X	X	X	5
6	17153-S-5-1		0907	X		So	X	X	X	X	X	5
7	17153-S-6-0.5		0915	X		So	X	X	X	X	X	5
8	17153-S-6-1		0918	X		So	X	X	X	X	X	5
9	17153-SB-17-2		1050	X		So	X				X	4
10	17153-SB-17-4		1054	X		So	X				X	4
11	17153-SB-18-2		1214	X		So	X				X	4
12	17153-SB-18-4		1220	X		So	X				X	4
13	17153-SB-19-2		1202	X		So	X				X	4
14	17153-SB-19-4	6-2-2017	1205	X		So	X				X	4

ANALYSIS REQUESTED

Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1. Alex Testoff	1500 6-2-17	1.	6/2/17 1500
2.		2.	
3.		3.	

SPECIAL INSTRUCTIONS/COMMENTS: Some of the 17153-S-3-0.5 & "17153-S-3-0." are labeled as "17153-S3-0.5"/"17153-S3-1" on bottle

SHIPMENT METHOD

OUT: / / VIA:

IN: / / VIA:

(Client) FedEx UPS US mail courier Greyhound other: _____

PROJECT INFORMATION

PROJECT NAME: Granville Mill

PROJECT #:

SITE ADDRESS: Granville, GA

SEND REPORT TO: awilliams@ersplanning.com

INVOICE TO: (IF DIFFERENT FROM ABOVE)

QUOTE #: _____ PO#: _____

RECEIPT

Total # of Containers: 60

Turnaround Time (TAT) Request

- [x] Standard 5 Business Days
- [ ] 2 Business Day Rush
- [ ] Next Business Day Rush
- [ ] Same-Day Rush **(auth req.)**
- [ ] Other _____

STATE PROGRAM (if any): _____

E-mail? ☐ Fax? ☐

DATA PACKAGE: I ○ II ○ III ○ IV ○

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 arangements 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

ANALYTICAL ENVIRONMENTAL SERVICES, INC.
3080 Presidential Drive Atlanta, GA 30340-3704
AES Phone: (770) 457-8177 / Toll-Free: (800) 972-4889 / Fax: (770) 457-8188

CHAIN OF CUSTODY

1706259 Work Order: _____

Date: 6-2-2017 Page 2 of 2

COMPANY:	ADDRESS:
EPS Inc.	1050 Crown Pointe Pkwy, Ste. 550 Atlanta, GA 30338
PHONE: 404 315 9113	EMAIL:
SAMPLED BY: Alex Testoff Melissa Spitzmiller	SIGNATURE:

#	SAMPLE ID	SAMPLED: DATE	SAMPLED: TIME	GRAB	COMPOSITE	MATRIX (see codes)	ANALYSIS REQUESTED: VOCs	Soil Moisture	VOCs (H_2O)	PRESERVATION (see codes): S/M+I	I	H+I	REMARKS	Number of Containers
1	17153-SB-20-2	6-2-2017	1143	X		SO	X	X						4
2	17153-SB-20-4		1152	X		SO	X	X						4
3	17153-SB-21-2		1125	X		SO	X	X						4
4	17153-SB-21-4		1130	X		SO	X	X						4
5	17153-SB-22-2		1115	X		SO	X	X						4
6	17153-SB-22-4	6-2-2017	1118	X		SO	X	X						4
7	17153-DUP	6-2-2017	1200	X		SO	X	X						4
8	Trip Blank					W			X					2
9														
10														
11														
12														
13														
14														

Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1.	1500 6-2-2017	1.	6/2/17 1500
2.		2.	
3.		3.	

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT: / / VIA:
IN: / / VIA:
(Client) FedEx UPS US mail courier Greyhound
other: _____

PROJECT INFORMATION
PROJECT NAME: Grantville Mill
PROJECT #:
SITE ADDRESS: Grantville, GA
SEND REPORT TO: awilliams@ewplanning.com
INVOICE TO:
(IF DIFFERENT FROM ABOVE)
QUOTE #: _____ PO#: _____

RECEIPT
Total # of Containers: 30

Turnaround Time (TAT) Request
- [x] Standard 5 Business Days
- [ ] 2 Business Day Rush
- [ ] Next Business Day Rush
- [ ] Same-Day Rush **(auth req.)**
- [ ] Other _____

STATE PROGRAM (if any): _____
E-mail? ☐ Fax? ☐
DATA PACKAGE: I ○ II ○ III ○ IV ○

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White Copy - Original; Yellow Copy - Client

Client: Environmental Planning Specialists, Inc.
Project: Grantville Mill
Lab ID: 1706259

Case Narrative

Volatile Organic Compounds Analysis by Method 8260B:

Percent recovery for the internal standard compounds Pentafluorobenzene, 1,4-Difluorobenzene, Chlorobenzene-d5 and 1,4-Dichlorobenzene-d4 on samples 1706259-001A, & -008A was outside control limits biased low due to suspected matrix interference. The sample was ran twice.

Percent recovery for the internal standard compounds Chlorobenzene-d5 and 1,4-Dichlorobenzene-d4 on sample 1706259-002A, -003A, & -004A was outside control limits biased low due to suspected matrix interference. All other internal standard recoveries were within control limits.

Percent recovery for the internal standard compound 1,4-Dichlorobenzene-d4 on sample 1706259-006A, & -009A was outside control limits biased low due to suspected matrix interference. All other internal standard recoveries were within control limits.

Metals Analysis by Method 6010D:

Sample 1706259-005C As result was reported as estimated due to suspected matrix interference with sample QC criteria at PQL of 0.1 mg/L. All associated batch QC were within limits.

Analytical Environmental Services, Inc

Date: 12-Jun-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17153-S-3-0.5
Project Name:	Grantville Mill	**Collection Date:**	6/2/2017 8:38:00 AM
Lab ID:	1706259-001	**Matrix:**	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5035)**				
1,1,1-Trichloroethane	BRL	4.3		ug/Kg-dry	243834	1	06/08/2017 13:04	MD
1,1,2,2-Tetrachloroethane	BRL	4.3		ug/Kg-dry	243834	1	06/08/2017 13:04	MD
1,1,2-Trichloroethane	BRL	4.3		ug/Kg-dry	243834	1	06/08/2017 13:04	MD
1,1-Dichloroethane	BRL	4.3		ug/Kg-dry	243834	1	06/08/2017 13:04	MD
1,1-Dichloroethene	BRL	4.3		ug/Kg-dry	243834	1	06/08/2017 13:04	MD
1,2,4-Trichlorobenzene	BRL	4.3		ug/Kg-dry	243834	1	06/08/2017 13:04	MD
1,2-Dibromo-3-chloropropane	BRL	4.3		ug/Kg-dry	243834	1	06/08/2017 13:04	MD
1,2-Dibromoethane	BRL	4.3		ug/Kg-dry	243834	1	06/08/2017 13:04	MD
1,2-Dichlorobenzene	BRL	4.3		ug/Kg-dry	243834	1	06/08/2017 13:04	MD
1,2-Dichloroethane	BRL	4.3		ug/Kg-dry	243834	1	06/08/2017 13:04	MD
1,2-Dichloropropane	BRL	4.3		ug/Kg-dry	243834	1	06/08/2017 13:04	MD
1,3-Dichlorobenzene	BRL	4.3		ug/Kg-dry	243834	1	06/08/2017 13:04	MD
1,4-Dichlorobenzene	BRL	4.3		ug/Kg-dry	243834	1	06/08/2017 13:04	MD
2-Butanone	BRL	43		ug/Kg-dry	243834	1	06/08/2017 13:04	MD
2-Hexanone	BRL	8.5		ug/Kg-dry	243834	1	06/08/2017 13:04	MD
4-Methyl-2-pentanone	BRL	8.5		ug/Kg-dry	243834	1	06/08/2017 13:04	MD
Acetone	200	85		ug/Kg-dry	243834	1	06/08/2017 13:04	MD
Benzene	6.5	4.3		ug/Kg-dry	243834	1	06/08/2017 13:04	MD
Bromodichloromethane	BRL	4.3		ug/Kg-dry	243834	1	06/08/2017 13:04	MD
Bromoform	BRL	4.3		ug/Kg-dry	243834	1	06/08/2017 13:04	MD
Bromomethane	BRL	4.3		ug/Kg-dry	243834	1	06/08/2017 13:04	MD
Carbon disulfide	BRL	8.5		ug/Kg-dry	243834	1	06/08/2017 13:04	MD
Carbon tetrachloride	BRL	4.3		ug/Kg-dry	243834	1	06/08/2017 13:04	MD
Chlorobenzene	BRL	4.3		ug/Kg-dry	243834	1	06/08/2017 13:04	MD
Chloroethane	BRL	8.5		ug/Kg-dry	243834	1	06/08/2017 13:04	MD
Chloroform	BRL	4.3		ug/Kg-dry	243834	1	06/08/2017 13:04	MD
Chloromethane	BRL	8.5		ug/Kg-dry	243834	1	06/08/2017 13:04	MD
cis-1,2-Dichloroethene	BRL	4.3		ug/Kg-dry	243834	1	06/08/2017 13:04	MD
cis-1,3-Dichloropropene	BRL	4.3		ug/Kg-dry	243834	1	06/08/2017 13:04	MD
Cyclohexane	BRL	4.3		ug/Kg-dry	243834	1	06/08/2017 13:04	MD
Dibromochloromethane	BRL	4.3		ug/Kg-dry	243834	1	06/08/2017 13:04	MD
Dichlorodifluoromethane	BRL	8.5		ug/Kg-dry	243834	1	06/08/2017 13:04	MD
Ethylbenzene	BRL	4.3		ug/Kg-dry	243834	1	06/08/2017 13:04	MD
Freon-113	BRL	8.5		ug/Kg-dry	243834	1	06/08/2017 13:04	MD
Isopropylbenzene	BRL	4.3		ug/Kg-dry	243834	1	06/08/2017 13:04	MD
m,p-Xylene	BRL	4.3		ug/Kg-dry	243834	1	06/08/2017 13:04	MD
Methyl acetate	BRL	4.3		ug/Kg-dry	243834	1	06/08/2017 13:04	MD
Methyl tert-butyl ether	BRL	4.3		ug/Kg-dry	243834	1	06/08/2017 13:04	MD
Methylcyclohexane	BRL	4.3		ug/Kg-dry	243834	1	06/08/2017 13:04	MD
Methylene chloride	BRL	17		ug/Kg-dry	243834	1	06/08/2017 13:04	MD
o-Xylene	BRL	4.3		ug/Kg-dry	243834	1	06/08/2017 13:04	MD

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:** 12-Jun-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17153-S-3-0.5
Project Name:	Grantville Mill	**Collection Date:**	6/2/2017 8:38:00 AM
Lab ID:	1706259-001	**Matrix:**	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5035)**				
Styrene	BRL	4.3		ug/Kg-dry	243834	1	06/08/2017 13:04	MD
Tetrachloroethene	BRL	4.3		ug/Kg-dry	243834	1	06/08/2017 13:04	MD
Toluene	BRL	4.3		ug/Kg-dry	243834	1	06/08/2017 13:04	MD
trans-1,2-Dichloroethene	BRL	4.3		ug/Kg-dry	243834	1	06/08/2017 13:04	MD
trans-1,3-Dichloropropene	BRL	4.3		ug/Kg-dry	243834	1	06/08/2017 13:04	MD
Trichloroethene	BRL	4.3		ug/Kg-dry	243834	1	06/08/2017 13:04	MD
Trichlorofluoromethane	BRL	4.3		ug/Kg-dry	243834	1	06/08/2017 13:04	MD
Vinyl chloride	BRL	8.5		ug/Kg-dry	243834	1	06/08/2017 13:04	MD
Surr: 4-Bromofluorobenzene	72.7	63-125		%REC	243834	1	06/08/2017 13:04	MD
Surr: Dibromofluoromethane	128	69.9-123	S	%REC	243834	1	06/08/2017 13:04	MD
Surr: Toluene-d8	86.7	70-122		%REC	243834	1	06/08/2017 13:04	MD
METALS, TOTAL SW6010D				**(SW3050B)**				
Arsenic	28.5	6.32		mg/Kg-dry	243665	1	06/07/2017 11:12	IO
Chromium	17.7	3.16		mg/Kg-dry	243665	1	06/07/2017 11:12	IO
Lead	79.7	6.32		mg/Kg-dry	243665	1	06/07/2017 11:12	IO
PERCENT MOISTURE D2216								
Percent Moisture	21.1	0		wt%	R344800	1	06/06/2017 11:00	JC

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: 12-Jun-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17153-S-3-1
Project Name:	Grantville Mill	**Collection Date:**	6/2/2017 8:42:00 AM
Lab ID:	1706259-002	**Matrix:**	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5035)**				
1,1,1-Trichloroethane	BRL	4.2		ug/Kg-dry	243834	1	06/08/2017 13:29	MD
1,1,2,2-Tetrachloroethane	BRL	4.2		ug/Kg-dry	243834	1	06/08/2017 13:29	MD
1,1,2-Trichloroethane	BRL	4.2		ug/Kg-dry	243834	1	06/08/2017 13:29	MD
1,1-Dichloroethane	BRL	4.2		ug/Kg-dry	243834	1	06/08/2017 13:29	MD
1,1-Dichloroethene	BRL	4.2		ug/Kg-dry	243834	1	06/08/2017 13:29	MD
1,2,4-Trichlorobenzene	BRL	4.2		ug/Kg-dry	243834	1	06/08/2017 13:29	MD
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1,3-Dichlorobenzene	BRL	4.2		ug/Kg-dry	243834	1	06/08/2017 13:29	MD
1,4-Dichlorobenzene	BRL	4.2		ug/Kg-dry	243834	1	06/08/2017 13:29	MD
2-Butanone	BRL	42		ug/Kg-dry	243834	1	06/08/2017 13:29	MD
2-Hexanone	BRL	8.5		ug/Kg-dry	243834	1	06/08/2017 13:29	MD
4-Methyl-2-pentanone	BRL	8.5		ug/Kg-dry	243834	1	06/08/2017 13:29	MD
Acetone	230	85		ug/Kg-dry	243834	1	06/08/2017 13:29	MD
Benzene	6.2	4.2		ug/Kg-dry	243834	1	06/08/2017 13:29	MD
Bromodichloromethane	BRL	4.2		ug/Kg-dry	243834	1	06/08/2017 13:29	MD
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Methylcyclohexane	BRL	4.2		ug/Kg-dry	243834	1	06/08/2017 13:29	MD
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TCL VOLATILE ORGANICS SW8260B				**(SW5035)**				
Styrene	BRL	4.2		ug/Kg-dry	243834	1	06/08/2017 13:29	MD
Tetrachloroethene	BRL	4.2		ug/Kg-dry	243834	1	06/08/2017 13:29	MD
Toluene	BRL	4.2		ug/Kg-dry	243834	1	06/08/2017 13:29	MD
trans-1,2-Dichloroethene	BRL	4.2		ug/Kg-dry	243834	1	06/08/2017 13:29	MD
trans-1,3-Dichloropropene	BRL	4.2		ug/Kg-dry	243834	1	06/08/2017 13:29	MD
Trichloroethene	BRL	4.2		ug/Kg-dry	243834	1	06/08/2017 13:29	MD
Trichlorofluoromethane	BRL	4.2		ug/Kg-dry	243834	1	06/08/2017 13:29	MD
Vinyl chloride	BRL	8.5		ug/Kg-dry	243834	1	06/08/2017 13:29	MD
Surr: 4-Bromofluorobenzene	74.1	63-125		%REC	243834	1	06/08/2017 13:29	MD
Surr: Dibromofluoromethane	116	69.9-123		%REC	243834	1	06/08/2017 13:29	MD
Surr: Toluene-d8	90.1	70-122		%REC	243834	1	06/08/2017 13:29	MD
METALS, TOTAL SW6010D				**(SW3050B)**				
Arsenic	33.6	5.85		mg/Kg-dry	243665	1	06/07/2017 20:13	IO
Chromium	14.9	2.93		mg/Kg-dry	243665	1	06/07/2017 20:13	IO
Lead	60.2	5.85		mg/Kg-dry	243665	1	06/07/2017 20:13	IO
PERCENT MOISTURE D2216								
Percent Moisture	15.1	0		wt%	R344800	1	06/06/2017 11:00	JC

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:** 12-Jun-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17153-S-4-0.5
Project Name:	Grantville Mill	**Collection Date:**	6/2/2017 8:54:00 AM
Lab ID:	1706259-003	**Matrix:**	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5035)**				
1,1,1-Trichloroethane	BRL	5.8		ug/Kg-dry	243834	1	06/08/2017 19:05	MD
1,1,2,2-Tetrachloroethane	BRL	5.8		ug/Kg-dry	243834	1	06/08/2017 19:05	MD
1,1,2-Trichloroethane	BRL	5.8		ug/Kg-dry	243834	1	06/08/2017 19:05	MD
1,1-Dichloroethane	BRL	5.8		ug/Kg-dry	243834	1	06/08/2017 19:05	MD
1,1-Dichloroethene	BRL	5.8		ug/Kg-dry	243834	1	06/08/2017 19:05	MD
1,2,4-Trichlorobenzene	BRL	5.8		ug/Kg-dry	243834	1	06/08/2017 19:05	MD
1,2-Dibromo-3-chloropropane	BRL	5.8		ug/Kg-dry	243834	1	06/08/2017 19:05	MD
1,2-Dibromoethane	BRL	5.8		ug/Kg-dry	243834	1	06/08/2017 19:05	MD
1,2-Dichlorobenzene	BRL	5.8		ug/Kg-dry	243834	1	06/08/2017 19:05	MD
1,2-Dichloroethane	BRL	5.8		ug/Kg-dry	243834	1	06/08/2017 19:05	MD
1,2-Dichloropropane	BRL	5.8		ug/Kg-dry	243834	1	06/08/2017 19:05	MD
1,3-Dichlorobenzene	BRL	5.8		ug/Kg-dry	243834	1	06/08/2017 19:05	MD
1,4-Dichlorobenzene	BRL	5.8		ug/Kg-dry	243834	1	06/08/2017 19:05	MD
2-Butanone	BRL	58		ug/Kg-dry	243834	1	06/08/2017 19:05	MD
2-Hexanone	BRL	12		ug/Kg-dry	243834	1	06/08/2017 19:05	MD
4-Methyl-2-pentanone	BRL	12		ug/Kg-dry	243834	1	06/08/2017 19:05	MD
Acetone	BRL	120		ug/Kg-dry	243834	1	06/08/2017 19:05	MD
Benzene	BRL	5.8		ug/Kg-dry	243834	1	06/08/2017 19:05	MD
Bromodichloromethane	BRL	5.8		ug/Kg-dry	243834	1	06/08/2017 19:05	MD
Bromoform	BRL	5.8		ug/Kg-dry	243834	1	06/08/2017 19:05	MD
Bromomethane	BRL	5.8		ug/Kg-dry	243834	1	06/08/2017 19:05	MD
Carbon disulfide	BRL	12		ug/Kg-dry	243834	1	06/08/2017 19:05	MD
Carbon tetrachloride	BRL	5.8		ug/Kg-dry	243834	1	06/08/2017 19:05	MD
Chlorobenzene	BRL	5.8		ug/Kg-dry	243834	1	06/08/2017 19:05	MD
Chloroethane	BRL	12		ug/Kg-dry	243834	1	06/08/2017 19:05	MD
Chloroform	BRL	5.8		ug/Kg-dry	243834	1	06/08/2017 19:05	MD
Chloromethane	BRL	12		ug/Kg-dry	243834	1	06/08/2017 19:05	MD
cis-1,2-Dichloroethene	BRL	5.8		ug/Kg-dry	243834	1	06/08/2017 19:05	MD
cis-1,3-Dichloropropene	BRL	5.8		ug/Kg-dry	243834	1	06/08/2017 19:05	MD
Cyclohexane	BRL	5.8		ug/Kg-dry	243834	1	06/08/2017 19:05	MD
Dibromochloromethane	BRL	5.8		ug/Kg-dry	243834	1	06/08/2017 19:05	MD
Dichlorodifluoromethane	BRL	12		ug/Kg-dry	243834	1	06/08/2017 19:05	MD
Ethylbenzene	BRL	5.8		ug/Kg-dry	243834	1	06/08/2017 19:05	MD
Freon-113	BRL	12		ug/Kg-dry	243834	1	06/08/2017 19:05	MD
Isopropylbenzene	BRL	5.8		ug/Kg-dry	243834	1	06/08/2017 19:05	MD
m,p-Xylene	BRL	5.8		ug/Kg-dry	243834	1	06/08/2017 19:05	MD
Methyl acetate	BRL	5.8		ug/Kg-dry	243834	1	06/08/2017 19:05	MD
Methyl tert-butyl ether	BRL	5.8		ug/Kg-dry	243834	1	06/08/2017 19:05	MD
Methylcyclohexane	8.4	5.8		ug/Kg-dry	243834	1	06/08/2017 19:05	MD
Methylene chloride	BRL	23		ug/Kg-dry	243834	1	06/08/2017 19:05	MD
o-Xylene	BRL	5.8		ug/Kg-dry	243834	1	06/08/2017 19:05	MD

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:** 12-Jun-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17153-S-4-0.5
Project Name:	Grantville Mill	**Collection Date:**	6/2/2017 8:54:00 AM
Lab ID:	1706259-003	**Matrix:**	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5035)**				
Styrene	BRL	5.8		ug/Kg-dry	243834	1	06/08/2017 19:05	MD
Tetrachloroethene	BRL	5.8		ug/Kg-dry	243834	1	06/08/2017 19:05	MD
Toluene	9.2	5.8		ug/Kg-dry	243834	1	06/08/2017 19:05	MD
trans-1,2-Dichloroethene	BRL	5.8		ug/Kg-dry	243834	1	06/08/2017 19:05	MD
trans-1,3-Dichloropropene	BRL	5.8		ug/Kg-dry	243834	1	06/08/2017 19:05	MD
Trichloroethene	BRL	5.8		ug/Kg-dry	243834	1	06/08/2017 19:05	MD
Trichlorofluoromethane	BRL	5.8		ug/Kg-dry	243834	1	06/08/2017 19:05	MD
Vinyl chloride	BRL	12		ug/Kg-dry	243834	1	06/08/2017 19:05	MD
Surr: 4-Bromofluorobenzene	58.2	63-125	S	%REC	243834	1	06/08/2017 19:05	MD
Surr: Dibromofluoromethane	123	69.9-123		%REC	243834	1	06/08/2017 19:05	MD
Surr: Toluene-d8	88.5	70-122		%REC	243834	1	06/08/2017 19:05	MD
METALS, TOTAL SW6010D				**(SW3050B)**				
Arsenic	71.7	7.83		mg/Kg-dry	243665	1	06/07/2017 20:17	IO
Chromium	13.0	3.92		mg/Kg-dry	243665	1	06/07/2017 20:17	IO
Lead	24.6	7.83		mg/Kg-dry	243665	1	06/07/2017 20:17	IO
PERCENT MOISTURE D2216								
Percent Moisture	37.4	0		wt%	R344800	1	06/06/2017 11:00	JC

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:** 12-Jun-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17153-S-4-1
Project Name:	Grantville Mill	**Collection Date:**	6/2/2017 8:57:00 AM
Lab ID:	1706259-004	**Matrix:**	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5035)**				
1,1,1-Trichloroethane	BRL	6.4		ug/Kg-dry	243834	1	06/08/2017 14:20	MD
1,1,2,2-Tetrachloroethane	BRL	6.4		ug/Kg-dry	243834	1	06/08/2017 14:20	MD
1,1,2-Trichloroethane	BRL	6.4		ug/Kg-dry	243834	1	06/08/2017 14:20	MD
1,1-Dichloroethane	BRL	6.4		ug/Kg-dry	243834	1	06/08/2017 14:20	MD
1,1-Dichloroethene	BRL	6.4		ug/Kg-dry	243834	1	06/08/2017 14:20	MD
1,2,4-Trichlorobenzene	BRL	6.4		ug/Kg-dry	243834	1	06/08/2017 14:20	MD
1,2-Dibromo-3-chloropropane	BRL	6.4		ug/Kg-dry	243834	1	06/08/2017 14:20	MD
1,2-Dibromoethane	BRL	6.4		ug/Kg-dry	243834	1	06/08/2017 14:20	MD
1,2-Dichlorobenzene	BRL	6.4		ug/Kg-dry	243834	1	06/08/2017 14:20	MD
1,2-Dichloroethane	BRL	6.4		ug/Kg-dry	243834	1	06/08/2017 14:20	MD
1,2-Dichloropropane	BRL	6.4		ug/Kg-dry	243834	1	06/08/2017 14:20	MD
1,3-Dichlorobenzene	BRL	6.4		ug/Kg-dry	243834	1	06/08/2017 14:20	MD
1,4-Dichlorobenzene	BRL	6.4		ug/Kg-dry	243834	1	06/08/2017 14:20	MD
2-Butanone	BRL	64		ug/Kg-dry	243834	1	06/08/2017 14:20	MD
2-Hexanone	BRL	13		ug/Kg-dry	243834	1	06/08/2017 14:20	MD
4-Methyl-2-pentanone	BRL	13		ug/Kg-dry	243834	1	06/08/2017 14:20	MD
Acetone	160	130		ug/Kg-dry	243834	1	06/08/2017 14:20	MD
Benzene	BRL	6.4		ug/Kg-dry	243834	1	06/08/2017 14:20	MD
Bromodichloromethane	BRL	6.4		ug/Kg-dry	243834	1	06/08/2017 14:20	MD
Bromoform	BRL	6.4		ug/Kg-dry	243834	1	06/08/2017 14:20	MD
Bromomethane	BRL	6.4		ug/Kg-dry	243834	1	06/08/2017 14:20	MD
Carbon disulfide	BRL	13		ug/Kg-dry	243834	1	06/08/2017 14:20	MD
Carbon tetrachloride	BRL	6.4		ug/Kg-dry	243834	1	06/08/2017 14:20	MD
Chlorobenzene	BRL	6.4		ug/Kg-dry	243834	1	06/08/2017 14:20	MD
Chloroethane	BRL	13		ug/Kg-dry	243834	1	06/08/2017 14:20	MD
Chloroform	BRL	6.4		ug/Kg-dry	243834	1	06/08/2017 14:20	MD
Chloromethane	BRL	13		ug/Kg-dry	243834	1	06/08/2017 14:20	MD
cis-1,2-Dichloroethene	BRL	6.4		ug/Kg-dry	243834	1	06/08/2017 14:20	MD
cis-1,3-Dichloropropene	BRL	6.4		ug/Kg-dry	243834	1	06/08/2017 14:20	MD
Cyclohexane	BRL	6.4		ug/Kg-dry	243834	1	06/08/2017 14:20	MD
Dibromochloromethane	BRL	6.4		ug/Kg-dry	243834	1	06/08/2017 14:20	MD
Dichlorodifluoromethane	BRL	13		ug/Kg-dry	243834	1	06/08/2017 14:20	MD
Ethylbenzene	BRL	6.4		ug/Kg-dry	243834	1	06/08/2017 14:20	MD
Freon-113	BRL	13		ug/Kg-dry	243834	1	06/08/2017 14:20	MD
Isopropylbenzene	BRL	6.4		ug/Kg-dry	243834	1	06/08/2017 14:20	MD
m,p-Xylene	BRL	6.4		ug/Kg-dry	243834	1	06/08/2017 14:20	MD
Methyl acetate	BRL	6.4		ug/Kg-dry	243834	1	06/08/2017 14:20	MD
Methyl tert-butyl ether	BRL	6.4		ug/Kg-dry	243834	1	06/08/2017 14:20	MD
Methylcyclohexane	8.0	6.4		ug/Kg-dry	243834	1	06/08/2017 14:20	MD
Methylene chloride	BRL	25		ug/Kg-dry	243834	1	06/08/2017 14:20	MD
o-Xylene	BRL	6.4		ug/Kg-dry	243834	1	06/08/2017 14:20	MD

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:** 12-Jun-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17153-S-4-1
Project Name:	Grantville Mill	**Collection Date:**	6/2/2017 8:57:00 AM
Lab ID:	1706259-004	**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	243834	1	06/08/2017 14:20	MD
Tetrachloroethene	BRL	6.4		ug/Kg-dry	243834	1	06/08/2017 14:20	MD
Toluene	BRL	6.4		ug/Kg-dry	243834	1	06/08/2017 14:20	MD
trans-1,2-Dichloroethene	BRL	6.4		ug/Kg-dry	243834	1	06/08/2017 14:20	MD
trans-1,3-Dichloropropene	BRL	6.4		ug/Kg-dry	243834	1	06/08/2017 14:20	MD
Trichloroethene	BRL	6.4		ug/Kg-dry	243834	1	06/08/2017 14:20	MD
Trichlorofluoromethane	BRL	6.4		ug/Kg-dry	243834	1	06/08/2017 14:20	MD
Vinyl chloride	BRL	13		ug/Kg-dry	243834	1	06/08/2017 14:20	MD
Surr: 4-Bromofluorobenzene	71.7	63-125		%REC	243834	1	06/08/2017 14:20	MD
Surr: Dibromofluoromethane	118	69.9-123		%REC	243834	1	06/08/2017 14:20	MD
Surr: Toluene-d8	88.9	70-122		%REC	243834	1	06/08/2017 14:20	MD
METALS, TOTAL SW6010D				**(SW3050B)**				
Arsenic	83.6	7.51		mg/Kg-dry	243665	1	06/07/2017 20:20	IO
Chromium	22.9	3.76		mg/Kg-dry	243665	1	06/07/2017 20:20	IO
Lead	30.2	7.51		mg/Kg-dry	243665	1	06/07/2017 20:20	IO
PERCENT MOISTURE D2216								
Percent Moisture	34.3	0		wt%	R344800	1	06/06/2017 11:00	JC

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: 12-Jun-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17153-S-5-0.5
Project Name:	Grantville Mill	**Collection Date:**	6/2/2017 9:03:00 AM
Lab ID:	1706259-005	**Matrix:**	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5035)**				
1,1,1-Trichloroethane	BRL	3.6		ug/Kg-dry	243834	1	06/08/2017 14:45	MD
1,1,2,2-Tetrachloroethane	BRL	3.6		ug/Kg-dry	243834	1	06/08/2017 14:45	MD
1,1,2-Trichloroethane	BRL	3.6		ug/Kg-dry	243834	1	06/08/2017 14:45	MD
1,1-Dichloroethane	BRL	3.6		ug/Kg-dry	243834	1	06/08/2017 14:45	MD
1,1-Dichloroethene	BRL	3.6		ug/Kg-dry	243834	1	06/08/2017 14:45	MD
1,2,4-Trichlorobenzene	BRL	3.6		ug/Kg-dry	243834	1	06/08/2017 14:45	MD
1,2-Dibromo-3-chloropropane	BRL	3.6		ug/Kg-dry	243834	1	06/08/2017 14:45	MD
1,2-Dibromoethane	BRL	3.6		ug/Kg-dry	243834	1	06/08/2017 14:45	MD
1,2-Dichlorobenzene	BRL	3.6		ug/Kg-dry	243834	1	06/08/2017 14:45	MD
1,2-Dichloroethane	BRL	3.6		ug/Kg-dry	243834	1	06/08/2017 14:45	MD
1,2-Dichloropropane	BRL	3.6		ug/Kg-dry	243834	1	06/08/2017 14:45	MD
1,3-Dichlorobenzene	BRL	3.6		ug/Kg-dry	243834	1	06/08/2017 14:45	MD
1,4-Dichlorobenzene	BRL	3.6		ug/Kg-dry	243834	1	06/08/2017 14:45	MD
2-Butanone	BRL	36		ug/Kg-dry	243834	1	06/08/2017 14:45	MD
2-Hexanone	BRL	7.3		ug/Kg-dry	243834	1	06/08/2017 14:45	MD
4-Methyl-2-pentanone	BRL	7.3		ug/Kg-dry	243834	1	06/08/2017 14:45	MD
Acetone	110	73		ug/Kg-dry	243834	1	06/08/2017 14:45	MD
Benzene	BRL	3.6		ug/Kg-dry	243834	1	06/08/2017 14:45	MD
Bromodichloromethane	BRL	3.6		ug/Kg-dry	243834	1	06/08/2017 14:45	MD
Bromoform	BRL	3.6		ug/Kg-dry	243834	1	06/08/2017 14:45	MD
Bromomethane	BRL	3.6		ug/Kg-dry	243834	1	06/08/2017 14:45	MD
Carbon disulfide	BRL	7.3		ug/Kg-dry	243834	1	06/08/2017 14:45	MD
Carbon tetrachloride	BRL	3.6		ug/Kg-dry	243834	1	06/08/2017 14:45	MD
Chlorobenzene	BRL	3.6		ug/Kg-dry	243834	1	06/08/2017 14:45	MD
Chloroethane	BRL	7.3		ug/Kg-dry	243834	1	06/08/2017 14:45	MD
Chloroform	BRL	3.6		ug/Kg-dry	243834	1	06/08/2017 14:45	MD
Chloromethane	BRL	7.3		ug/Kg-dry	243834	1	06/08/2017 14:45	MD
cis-1,2-Dichloroethene	BRL	3.6		ug/Kg-dry	243834	1	06/08/2017 14:45	MD
cis-1,3-Dichloropropene	BRL	3.6		ug/Kg-dry	243834	1	06/08/2017 14:45	MD
Cyclohexane	BRL	3.6		ug/Kg-dry	243834	1	06/08/2017 14:45	MD
Dibromochloromethane	BRL	3.6		ug/Kg-dry	243834	1	06/08/2017 14:45	MD
Dichlorodifluoromethane	BRL	7.3		ug/Kg-dry	243834	1	06/08/2017 14:45	MD
Ethylbenzene	BRL	3.6		ug/Kg-dry	243834	1	06/08/2017 14:45	MD
Freon-113	BRL	7.3		ug/Kg-dry	243834	1	06/08/2017 14:45	MD
Isopropylbenzene	BRL	3.6		ug/Kg-dry	243834	1	06/08/2017 14:45	MD
m,p-Xylene	BRL	3.6		ug/Kg-dry	243834	1	06/08/2017 14:45	MD
Methyl acetate	BRL	3.6		ug/Kg-dry	243834	1	06/08/2017 14:45	MD
Methyl tert-butyl ether	BRL	3.6		ug/Kg-dry	243834	1	06/08/2017 14:45	MD
Methylcyclohexane	BRL	3.6		ug/Kg-dry	243834	1	06/08/2017 14:45	MD
Methylene chloride	BRL	15		ug/Kg-dry	243834	1	06/08/2017 14:45	MD
o-Xylene	BRL	3.6		ug/Kg-dry	243834	1	06/08/2017 14:45	MD

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:** 12-Jun-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17153-S-5-0.5
Project Name:	Grantville Mill	**Collection Date:**	6/2/2017 9:03:00 AM
Lab ID:	1706259-005	**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	243834	1	06/08/2017 14:45	MD
Tetrachloroethene	BRL	3.6		ug/Kg-dry	243834	1	06/08/2017 14:45	MD
Toluene	BRL	3.6		ug/Kg-dry	243834	1	06/08/2017 14:45	MD
trans-1,2-Dichloroethene	BRL	3.6		ug/Kg-dry	243834	1	06/08/2017 14:45	MD
trans-1,3-Dichloropropene	BRL	3.6		ug/Kg-dry	243834	1	06/08/2017 14:45	MD
Trichloroethene	BRL	3.6		ug/Kg-dry	243834	1	06/08/2017 14:45	MD
Trichlorofluoromethane	BRL	3.6		ug/Kg-dry	243834	1	06/08/2017 14:45	MD
Vinyl chloride	BRL	7.3		ug/Kg-dry	243834	1	06/08/2017 14:45	MD
Surr: 4-Bromofluorobenzene	90.9	63-125		%REC	243834	1	06/08/2017 14:45	MD
Surr: Dibromofluoromethane	104	69.9-123		%REC	243834	1	06/08/2017 14:45	MD
Surr: Toluene-d8	98.4	70-122		%REC	243834	1	06/08/2017 14:45	MD
METALS, TOTAL SW6010D				**(SW3050B)**				
Arsenic	8.51	6.38		mg/Kg-dry	243665	1	06/07/2017 20:23	IO
Chromium	48.5	3.19		mg/Kg-dry	243665	1	06/07/2017 20:23	IO
Lead	42.4	6.38		mg/Kg-dry	243665	1	06/07/2017 20:23	IO
PERCENT MOISTURE D2216								
Percent Moisture	27.9	0		wt%	R344800	1	06/06/2017 11:00	JC

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:** 12-Jun-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17153-S-5-1
Project Name:	Grantville Mill	**Collection Date:**	6/2/2017 9:07:00 AM
Lab ID:	1706259-006	**Matrix:**	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5035)**				
1,1,1-Trichloroethane	BRL	4.6		ug/Kg-dry	243834	1	06/08/2017 15:10	MD
1,1,2,2-Tetrachloroethane	BRL	4.6		ug/Kg-dry	243834	1	06/08/2017 15:10	MD
1,1,2-Trichloroethane	BRL	4.6		ug/Kg-dry	243834	1	06/08/2017 15:10	MD
1,1-Dichloroethane	BRL	4.6		ug/Kg-dry	243834	1	06/08/2017 15:10	MD
1,1-Dichloroethene	BRL	4.6		ug/Kg-dry	243834	1	06/08/2017 15:10	MD
1,2,4-Trichlorobenzene	BRL	4.6		ug/Kg-dry	243834	1	06/08/2017 15:10	MD
1,2-Dibromo-3-chloropropane	BRL	4.6		ug/Kg-dry	243834	1	06/08/2017 15:10	MD
1,2-Dibromoethane	BRL	4.6		ug/Kg-dry	243834	1	06/08/2017 15:10	MD
1,2-Dichlorobenzene	BRL	4.6		ug/Kg-dry	243834	1	06/08/2017 15:10	MD
1,2-Dichloroethane	BRL	4.6		ug/Kg-dry	243834	1	06/08/2017 15:10	MD
1,2-Dichloropropane	BRL	4.6		ug/Kg-dry	243834	1	06/08/2017 15:10	MD
1,3-Dichlorobenzene	BRL	4.6		ug/Kg-dry	243834	1	06/08/2017 15:10	MD
1,4-Dichlorobenzene	BRL	4.6		ug/Kg-dry	243834	1	06/08/2017 15:10	MD
2-Butanone	BRL	46		ug/Kg-dry	243834	1	06/08/2017 15:10	MD
2-Hexanone	BRL	9.1		ug/Kg-dry	243834	1	06/08/2017 15:10	MD
4-Methyl-2-pentanone	BRL	9.1		ug/Kg-dry	243834	1	06/08/2017 15:10	MD
Acetone	100	91		ug/Kg-dry	243834	1	06/08/2017 15:10	MD
Benzene	BRL	4.6		ug/Kg-dry	243834	1	06/08/2017 15:10	MD
Bromodichloromethane	BRL	4.6		ug/Kg-dry	243834	1	06/08/2017 15:10	MD
Bromoform	BRL	4.6		ug/Kg-dry	243834	1	06/08/2017 15:10	MD
Bromomethane	BRL	4.6		ug/Kg-dry	243834	1	06/08/2017 15:10	MD
Carbon disulfide	BRL	9.1		ug/Kg-dry	243834	1	06/08/2017 15:10	MD
Carbon tetrachloride	BRL	4.6		ug/Kg-dry	243834	1	06/08/2017 15:10	MD
Chlorobenzene	BRL	4.6		ug/Kg-dry	243834	1	06/08/2017 15:10	MD
Chloroethane	BRL	9.1		ug/Kg-dry	243834	1	06/08/2017 15:10	MD
Chloroform	BRL	4.6		ug/Kg-dry	243834	1	06/08/2017 15:10	MD
Chloromethane	BRL	9.1		ug/Kg-dry	243834	1	06/08/2017 15:10	MD
cis-1,2-Dichloroethene	BRL	4.6		ug/Kg-dry	243834	1	06/08/2017 15:10	MD
cis-1,3-Dichloropropene	BRL	4.6		ug/Kg-dry	243834	1	06/08/2017 15:10	MD
Cyclohexane	BRL	4.6		ug/Kg-dry	243834	1	06/08/2017 15:10	MD
Dibromochloromethane	BRL	4.6		ug/Kg-dry	243834	1	06/08/2017 15:10	MD
Dichlorodifluoromethane	BRL	9.1		ug/Kg-dry	243834	1	06/08/2017 15:10	MD
Ethylbenzene	BRL	4.6		ug/Kg-dry	243834	1	06/08/2017 15:10	MD
Freon-113	BRL	9.1		ug/Kg-dry	243834	1	06/08/2017 15:10	MD
Isopropylbenzene	BRL	4.6		ug/Kg-dry	243834	1	06/08/2017 15:10	MD
m,p-Xylene	BRL	4.6		ug/Kg-dry	243834	1	06/08/2017 15:10	MD
Methyl acetate	BRL	4.6		ug/Kg-dry	243834	1	06/08/2017 15:10	MD
Methyl tert-butyl ether	BRL	4.6		ug/Kg-dry	243834	1	06/08/2017 15:10	MD
Methylcyclohexane	BRL	4.6		ug/Kg-dry	243834	1	06/08/2017 15:10	MD
Methylene chloride	BRL	18		ug/Kg-dry	243834	1	06/08/2017 15:10	MD
o-Xylene	BRL	4.6		ug/Kg-dry	243834	1	06/08/2017 15:10	MD

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:** 12-Jun-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17153-S-5-1
Project Name:	Grantville Mill	**Collection Date:**	6/2/2017 9:07:00 AM
Lab ID:	1706259-006	**Matrix:**	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5035)**				
Styrene	BRL	4.6		ug/Kg-dry	243834	1	06/08/2017 15:10	MD
Tetrachloroethene	BRL	4.6		ug/Kg-dry	243834	1	06/08/2017 15:10	MD
Toluene	BRL	4.6		ug/Kg-dry	243834	1	06/08/2017 15:10	MD
trans-1,2-Dichloroethene	BRL	4.6		ug/Kg-dry	243834	1	06/08/2017 15:10	MD
trans-1,3-Dichloropropene	BRL	4.6		ug/Kg-dry	243834	1	06/08/2017 15:10	MD
Trichloroethene	BRL	4.6		ug/Kg-dry	243834	1	06/08/2017 15:10	MD
Trichlorofluoromethane	BRL	4.6		ug/Kg-dry	243834	1	06/08/2017 15:10	MD
Vinyl chloride	BRL	9.1		ug/Kg-dry	243834	1	06/08/2017 15:10	MD
Surr: 4-Bromofluorobenzene	76.5	63-125		%REC	243834	1	06/08/2017 15:10	MD
Surr: Dibromofluoromethane	114	69.9-123		%REC	243834	1	06/08/2017 15:10	MD
Surr: Toluene-d8	92.9	70-122		%REC	243834	1	06/08/2017 15:10	MD
METALS, TOTAL SW6010D				**(SW3050B)**				
Arsenic	7.00	6.81		mg/Kg-dry	243665	1	06/07/2017 20:26	IO
Chromium	31.3	3.41		mg/Kg-dry	243665	1	06/07/2017 20:26	IO
Lead	12.3	6.81		mg/Kg-dry	243665	1	06/07/2017 20:26	IO
PERCENT MOISTURE D2216								
Percent Moisture	26.9	0		wt%	R344800	1	06/06/2017 11:00	JC

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:** 12-Jun-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17153-S-6-0.5
Project Name:	Grantville Mill	**Collection Date:**	6/2/2017 9:15:00 AM
Lab ID:	1706259-007	**Matrix:**	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5035)**				
1,1,1-Trichloroethane	BRL	3.1		ug/Kg-dry	243834	1	06/08/2017 15:36	MD
1,1,2,2-Tetrachloroethane	BRL	3.1		ug/Kg-dry	243834	1	06/08/2017 15:36	MD
1,1,2-Trichloroethane	BRL	3.1		ug/Kg-dry	243834	1	06/08/2017 15:36	MD
1,1-Dichloroethane	BRL	3.1		ug/Kg-dry	243834	1	06/08/2017 15:36	MD
1,1-Dichloroethene	BRL	3.1		ug/Kg-dry	243834	1	06/08/2017 15:36	MD
1,2,4-Trichlorobenzene	BRL	3.1		ug/Kg-dry	243834	1	06/08/2017 15:36	MD
1,2-Dibromo-3-chloropropane	BRL	3.1		ug/Kg-dry	243834	1	06/08/2017 15:36	MD
1,2-Dibromoethane	BRL	3.1		ug/Kg-dry	243834	1	06/08/2017 15:36	MD
1,2-Dichlorobenzene	BRL	3.1		ug/Kg-dry	243834	1	06/08/2017 15:36	MD
1,2-Dichloroethane	BRL	3.1		ug/Kg-dry	243834	1	06/08/2017 15:36	MD
1,2-Dichloropropane	BRL	3.1		ug/Kg-dry	243834	1	06/08/2017 15:36	MD
1,3-Dichlorobenzene	BRL	3.1		ug/Kg-dry	243834	1	06/08/2017 15:36	MD
1,4-Dichlorobenzene	BRL	3.1		ug/Kg-dry	243834	1	06/08/2017 15:36	MD
2-Butanone	BRL	31		ug/Kg-dry	243834	1	06/08/2017 15:36	MD
2-Hexanone	BRL	6.3		ug/Kg-dry	243834	1	06/08/2017 15:36	MD
4-Methyl-2-pentanone	BRL	6.3		ug/Kg-dry	243834	1	06/08/2017 15:36	MD
Acetone	BRL	63		ug/Kg-dry	243834	1	06/08/2017 15:36	MD
Benzene	BRL	3.1		ug/Kg-dry	243834	1	06/08/2017 15:36	MD
Bromodichloromethane	BRL	3.1		ug/Kg-dry	243834	1	06/08/2017 15:36	MD
Bromoform	BRL	3.1		ug/Kg-dry	243834	1	06/08/2017 15:36	MD
Bromomethane	BRL	3.1		ug/Kg-dry	243834	1	06/08/2017 15:36	MD
Carbon disulfide	BRL	6.3		ug/Kg-dry	243834	1	06/08/2017 15:36	MD
Carbon tetrachloride	BRL	3.1		ug/Kg-dry	243834	1	06/08/2017 15:36	MD
Chlorobenzene	BRL	3.1		ug/Kg-dry	243834	1	06/08/2017 15:36	MD
Chloroethane	BRL	6.3		ug/Kg-dry	243834	1	06/08/2017 15:36	MD
Chloroform	BRL	3.1		ug/Kg-dry	243834	1	06/08/2017 15:36	MD
Chloromethane	BRL	6.3		ug/Kg-dry	243834	1	06/08/2017 15:36	MD
cis-1,2-Dichloroethene	BRL	3.1		ug/Kg-dry	243834	1	06/08/2017 15:36	MD
cis-1,3-Dichloropropene	BRL	3.1		ug/Kg-dry	243834	1	06/08/2017 15:36	MD
Cyclohexane	BRL	3.1		ug/Kg-dry	243834	1	06/08/2017 15:36	MD
Dibromochloromethane	BRL	3.1		ug/Kg-dry	243834	1	06/08/2017 15:36	MD
Dichlorodifluoromethane	BRL	6.3		ug/Kg-dry	243834	1	06/08/2017 15:36	MD
Ethylbenzene	BRL	3.1		ug/Kg-dry	243834	1	06/08/2017 15:36	MD
Freon-113	BRL	6.3		ug/Kg-dry	243834	1	06/08/2017 15:36	MD
Isopropylbenzene	BRL	3.1		ug/Kg-dry	243834	1	06/08/2017 15:36	MD
m,p-Xylene	BRL	3.1		ug/Kg-dry	243834	1	06/08/2017 15:36	MD
Methyl acetate	BRL	3.1		ug/Kg-dry	243834	1	06/08/2017 15:36	MD
Methyl tert-butyl ether	BRL	3.1		ug/Kg-dry	243834	1	06/08/2017 15:36	MD
Methylcyclohexane	BRL	3.1		ug/Kg-dry	243834	1	06/08/2017 15:36	MD
Methylene chloride	BRL	13		ug/Kg-dry	243834	1	06/08/2017 15:36	MD
o-Xylene	BRL	3.1		ug/Kg-dry	243834	1	06/08/2017 15:36	MD

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:** 12-Jun-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17153-S-6-0.5
Project Name:	Grantville Mill	**Collection Date:**	6/2/2017 9:15:00 AM
Lab ID:	1706259-007	**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	243834	1	06/08/2017 15:36	MD
Tetrachloroethene	BRL	3.1		ug/Kg-dry	243834	1	06/08/2017 15:36	MD
Toluene	BRL	3.1		ug/Kg-dry	243834	1	06/08/2017 15:36	MD
trans-1,2-Dichloroethene	BRL	3.1		ug/Kg-dry	243834	1	06/08/2017 15:36	MD
trans-1,3-Dichloropropene	BRL	3.1		ug/Kg-dry	243834	1	06/08/2017 15:36	MD
Trichloroethene	BRL	3.1		ug/Kg-dry	243834	1	06/08/2017 15:36	MD
Trichlorofluoromethane	BRL	3.1		ug/Kg-dry	243834	1	06/08/2017 15:36	MD
Vinyl chloride	BRL	6.3		ug/Kg-dry	243834	1	06/08/2017 15:36	MD
Surr: 4-Bromofluorobenzene	92.1	63-125		%REC	243834	1	06/08/2017 15:36	MD
Surr: Dibromofluoromethane	91.4	69.9-123		%REC	243834	1	06/08/2017 15:36	MD
Surr: Toluene-d8	99.8	70-122		%REC	243834	1	06/08/2017 15:36	MD
METALS, TOTAL SW6010D				**(SW3050B)**				
Arsenic	BRL	6.20		mg/Kg-dry	243665	1	06/07/2017 20:36	IO
Chromium	33.8	3.10		mg/Kg-dry	243665	1	06/07/2017 20:36	IO
Lead	23.4	6.20		mg/Kg-dry	243665	1	06/07/2017 20:36	IO
PERCENT MOISTURE D2216								
Percent Moisture	21.7	0		wt%	R344800	1	06/06/2017 11:00	JC

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:** 12-Jun-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17153-S-6-1
Project Name:	Grantville Mill	**Collection Date:**	6/2/2017 9:18:00 AM
Lab ID:	1706259-008	**Matrix:**	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5035)**				
1,1,1-Trichloroethane	BRL	3.5		ug/Kg-dry	243860	1	06/09/2017 10:07	MD
1,1,2,2-Tetrachloroethane	BRL	3.5		ug/Kg-dry	243860	1	06/09/2017 10:07	MD
1,1,2-Trichloroethane	BRL	3.5		ug/Kg-dry	243860	1	06/09/2017 10:07	MD
1,1-Dichloroethane	BRL	3.5		ug/Kg-dry	243860	1	06/09/2017 10:07	MD
1,1-Dichloroethene	BRL	3.5		ug/Kg-dry	243860	1	06/09/2017 10:07	MD
1,2,4-Trichlorobenzene	BRL	3.5		ug/Kg-dry	243860	1	06/09/2017 10:07	MD
1,2-Dibromo-3-chloropropane	BRL	3.5		ug/Kg-dry	243860	1	06/09/2017 10:07	MD
1,2-Dibromoethane	BRL	3.5		ug/Kg-dry	243860	1	06/09/2017 10:07	MD
1,2-Dichlorobenzene	BRL	3.5		ug/Kg-dry	243860	1	06/09/2017 10:07	MD
1,2-Dichloroethane	BRL	3.5		ug/Kg-dry	243860	1	06/09/2017 10:07	MD
1,2-Dichloropropane	BRL	3.5		ug/Kg-dry	243860	1	06/09/2017 10:07	MD
1,3-Dichlorobenzene	BRL	3.5		ug/Kg-dry	243860	1	06/09/2017 10:07	MD
1,4-Dichlorobenzene	BRL	3.5		ug/Kg-dry	243860	1	06/09/2017 10:07	MD
2-Butanone	BRL	35		ug/Kg-dry	243860	1	06/09/2017 10:07	MD
2-Hexanone	BRL	7.0		ug/Kg-dry	243860	1	06/09/2017 10:07	MD
4-Methyl-2-pentanone	BRL	7.0		ug/Kg-dry	243860	1	06/09/2017 10:07	MD
Acetone	BRL	70		ug/Kg-dry	243860	1	06/09/2017 10:07	MD
Benzene	BRL	3.5		ug/Kg-dry	243860	1	06/09/2017 10:07	MD
Bromodichloromethane	BRL	3.5		ug/Kg-dry	243860	1	06/09/2017 10:07	MD
Bromoform	BRL	3.5		ug/Kg-dry	243860	1	06/09/2017 10:07	MD
Bromomethane	BRL	3.5		ug/Kg-dry	243860	1	06/09/2017 10:07	MD
Carbon disulfide	BRL	7.0		ug/Kg-dry	243860	1	06/09/2017 10:07	MD
Carbon tetrachloride	BRL	3.5		ug/Kg-dry	243860	1	06/09/2017 10:07	MD
Chlorobenzene	BRL	3.5		ug/Kg-dry	243860	1	06/09/2017 10:07	MD
Chloroethane	BRL	7.0		ug/Kg-dry	243860	1	06/09/2017 10:07	MD
Chloroform	BRL	3.5		ug/Kg-dry	243860	1	06/09/2017 10:07	MD
Chloromethane	BRL	7.0		ug/Kg-dry	243860	1	06/09/2017 10:07	MD
cis-1,2-Dichloroethene	BRL	3.5		ug/Kg-dry	243860	1	06/09/2017 10:07	MD
cis-1,3-Dichloropropene	BRL	3.5		ug/Kg-dry	243860	1	06/09/2017 10:07	MD
Cyclohexane	BRL	3.5		ug/Kg-dry	243860	1	06/09/2017 10:07	MD
Dibromochloromethane	BRL	3.5		ug/Kg-dry	243860	1	06/09/2017 10:07	MD
Dichlorodifluoromethane	BRL	7.0		ug/Kg-dry	243860	1	06/09/2017 10:07	MD
Ethylbenzene	BRL	3.5		ug/Kg-dry	243860	1	06/09/2017 10:07	MD
Freon-113	BRL	7.0		ug/Kg-dry	243860	1	06/09/2017 10:07	MD
Isopropylbenzene	BRL	3.5		ug/Kg-dry	243860	1	06/09/2017 10:07	MD
m,p-Xylene	BRL	3.5		ug/Kg-dry	243860	1	06/09/2017 10:07	MD
Methyl acetate	BRL	3.5		ug/Kg-dry	243860	1	06/09/2017 10:07	MD
Methyl tert-butyl ether	BRL	3.5		ug/Kg-dry	243860	1	06/09/2017 10:07	MD
Methylcyclohexane	BRL	3.5		ug/Kg-dry	243860	1	06/09/2017 10:07	MD
Methylene chloride	BRL	14		ug/Kg-dry	243860	1	06/09/2017 10:07	MD
o-Xylene	BRL	3.5		ug/Kg-dry	243860	1	06/09/2017 10:07	MD

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:** 12-Jun-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17153-S-6-1
Project Name:	Grantville Mill	**Collection Date:**	6/2/2017 9:18:00 AM
Lab ID:	1706259-008	**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	243860	1	06/09/2017 10:07	MD
Tetrachloroethene	BRL	3.5		ug/Kg-dry	243860	1	06/09/2017 10:07	MD
Toluene	BRL	3.5		ug/Kg-dry	243860	1	06/09/2017 10:07	MD
trans-1,2-Dichloroethene	BRL	3.5		ug/Kg-dry	243860	1	06/09/2017 10:07	MD
trans-1,3-Dichloropropene	BRL	3.5		ug/Kg-dry	243860	1	06/09/2017 10:07	MD
Trichloroethene	BRL	3.5		ug/Kg-dry	243860	1	06/09/2017 10:07	MD
Trichlorofluoromethane	BRL	3.5		ug/Kg-dry	243860	1	06/09/2017 10:07	MD
Vinyl chloride	BRL	7.0		ug/Kg-dry	243860	1	06/09/2017 10:07	MD
Surr: 4-Bromofluorobenzene	58.6	63-125	S	%REC	243860	1	06/09/2017 10:07	MD
Surr: Dibromofluoromethane	89.1	69.9-123		%REC	243860	1	06/09/2017 10:07	MD
Surr: Toluene-d8	91.7	70-122		%REC	243860	1	06/09/2017 10:07	MD
METALS, TOTAL SW6010D				**(SW3050B)**				
Arsenic	BRL	6.28		mg/Kg-dry	243665	1	06/07/2017 20:39	IO
Chromium	63.1	3.14		mg/Kg-dry	243665	1	06/07/2017 20:39	IO
Lead	28.2	6.28		mg/Kg-dry	243665	1	06/07/2017 20:39	IO
PERCENT MOISTURE D2216								
Percent Moisture	20.5	0		wt%	R344800	1	06/06/2017 11:00	JC

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:** 12-Jun-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17153-SB-17-2
Project Name:	Grantville Mill	**Collection Date:**	6/2/2017 10:50:00 AM
Lab ID:	1706259-009	**Matrix:**	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5035)**				
1,1,1-Trichloroethane	BRL	3.4		ug/Kg-dry	243860	1	06/08/2017 12:05	MD
1,1,2,2-Tetrachloroethane	BRL	3.4		ug/Kg-dry	243860	1	06/08/2017 12:05	MD
1,1,2-Trichloroethane	BRL	3.4		ug/Kg-dry	243860	1	06/08/2017 12:05	MD
1,1-Dichloroethane	BRL	3.4		ug/Kg-dry	243860	1	06/08/2017 12:05	MD
1,1-Dichloroethene	BRL	3.4		ug/Kg-dry	243860	1	06/08/2017 12:05	MD
1,2,4-Trichlorobenzene	BRL	3.4		ug/Kg-dry	243860	1	06/08/2017 12:05	MD
1,2-Dibromo-3-chloropropane	BRL	3.4		ug/Kg-dry	243860	1	06/08/2017 12:05	MD
1,2-Dibromoethane	BRL	3.4		ug/Kg-dry	243860	1	06/08/2017 12:05	MD
1,2-Dichlorobenzene	BRL	3.4		ug/Kg-dry	243860	1	06/08/2017 12:05	MD
1,2-Dichloroethane	BRL	3.4		ug/Kg-dry	243860	1	06/08/2017 12:05	MD
1,2-Dichloropropane	BRL	3.4		ug/Kg-dry	243860	1	06/08/2017 12:05	MD
1,3-Dichlorobenzene	BRL	3.4		ug/Kg-dry	243860	1	06/08/2017 12:05	MD
1,4-Dichlorobenzene	BRL	3.4		ug/Kg-dry	243860	1	06/08/2017 12:05	MD
2-Butanone	BRL	34		ug/Kg-dry	243860	1	06/08/2017 12:05	MD
2-Hexanone	BRL	6.7		ug/Kg-dry	243860	1	06/08/2017 12:05	MD
4-Methyl-2-pentanone	BRL	6.7		ug/Kg-dry	243860	1	06/08/2017 12:05	MD
Acetone	74	67		ug/Kg-dry	243860	1	06/08/2017 12:05	MD
Benzene	BRL	3.4		ug/Kg-dry	243860	1	06/08/2017 12:05	MD
Bromodichloromethane	BRL	3.4		ug/Kg-dry	243860	1	06/08/2017 12:05	MD
Bromoform	BRL	3.4		ug/Kg-dry	243860	1	06/08/2017 12:05	MD
Bromomethane	BRL	3.4		ug/Kg-dry	243860	1	06/08/2017 12:05	MD
Carbon disulfide	BRL	6.7		ug/Kg-dry	243860	1	06/08/2017 12:05	MD
Carbon tetrachloride	BRL	3.4		ug/Kg-dry	243860	1	06/08/2017 12:05	MD
Chlorobenzene	BRL	3.4		ug/Kg-dry	243860	1	06/08/2017 12:05	MD
Chloroethane	BRL	6.7		ug/Kg-dry	243860	1	06/08/2017 12:05	MD
Chloroform	BRL	3.4		ug/Kg-dry	243860	1	06/08/2017 12:05	MD
Chloromethane	BRL	6.7		ug/Kg-dry	243860	1	06/08/2017 12:05	MD
cis-1,2-Dichloroethene	BRL	3.4		ug/Kg-dry	243860	1	06/08/2017 12:05	MD
cis-1,3-Dichloropropene	BRL	3.4		ug/Kg-dry	243860	1	06/08/2017 12:05	MD
Cyclohexane	BRL	3.4		ug/Kg-dry	243860	1	06/08/2017 12:05	MD
Dibromochloromethane	BRL	3.4		ug/Kg-dry	243860	1	06/08/2017 12:05	MD
Dichlorodifluoromethane	BRL	6.7		ug/Kg-dry	243860	1	06/08/2017 12:05	MD
Ethylbenzene	BRL	3.4		ug/Kg-dry	243860	1	06/08/2017 12:05	MD
Freon-113	BRL	6.7		ug/Kg-dry	243860	1	06/08/2017 12:05	MD
Isopropylbenzene	BRL	3.4		ug/Kg-dry	243860	1	06/08/2017 12:05	MD
m,p-Xylene	BRL	3.4		ug/Kg-dry	243860	1	06/08/2017 12:05	MD
Methyl acetate	BRL	3.4		ug/Kg-dry	243860	1	06/08/2017 12:05	MD
Methyl tert-butyl ether	BRL	3.4		ug/Kg-dry	243860	1	06/08/2017 12:05	MD
Methylcyclohexane	BRL	3.4		ug/Kg-dry	243860	1	06/08/2017 12:05	MD
Methylene chloride	BRL	13		ug/Kg-dry	243860	1	06/08/2017 12:05	MD
o-Xylene	BRL	3.4		ug/Kg-dry	243860	1	06/08/2017 12:05	MD

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:** 12-Jun-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17153-SB-17-2
Project Name:	Grantville Mill	**Collection Date:**	6/2/2017 10:50:00 AM
Lab ID:	1706259-009	**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	243860	1	06/08/2017 12:05	MD
Tetrachloroethene	7.8	3.4		ug/Kg-dry	243860	1	06/08/2017 12:05	MD
Toluene	BRL	3.4		ug/Kg-dry	243860	1	06/08/2017 12:05	MD
trans-1,2-Dichloroethene	BRL	3.4		ug/Kg-dry	243860	1	06/08/2017 12:05	MD
trans-1,3-Dichloropropene	BRL	3.4		ug/Kg-dry	243860	1	06/08/2017 12:05	MD
Trichloroethene	BRL	3.4		ug/Kg-dry	243860	1	06/08/2017 12:05	MD
Trichlorofluoromethane	BRL	3.4		ug/Kg-dry	243860	1	06/08/2017 12:05	MD
Vinyl chloride	BRL	6.7		ug/Kg-dry	243860	1	06/08/2017 12:05	MD
Surr: 4-Bromofluorobenzene	91	63-125		%REC	243860	1	06/08/2017 12:05	MD
Surr: Dibromofluoromethane	103	69.9-123		%REC	243860	1	06/08/2017 12:05	MD
Surr: Toluene-d8	98.4	70-122		%REC	243860	1	06/08/2017 12:05	MD
PERCENT MOISTURE D2216								
Percent Moisture	19.0	0		wt%	R344800	1	06/06/2017 11:00	JC

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:** 12-Jun-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17153-SB-17-4
Project Name:	Grantville Mill	**Collection Date:**	6/2/2017 10:54:00 AM
Lab ID:	1706259-010	**Matrix:**	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5035)**				
1,1,1-Trichloroethane	BRL	3.0		ug/Kg-dry	243860	1	06/08/2017 12:28	MD
1,1,2,2-Tetrachloroethane	BRL	3.0		ug/Kg-dry	243860	1	06/08/2017 12:28	MD
1,1,2-Trichloroethane	BRL	3.0		ug/Kg-dry	243860	1	06/08/2017 12:28	MD
1,1-Dichloroethane	BRL	3.0		ug/Kg-dry	243860	1	06/08/2017 12:28	MD
1,1-Dichloroethene	BRL	3.0		ug/Kg-dry	243860	1	06/08/2017 12:28	MD
1,2,4-Trichlorobenzene	BRL	3.0		ug/Kg-dry	243860	1	06/08/2017 12:28	MD
1,2-Dibromo-3-chloropropane	BRL	3.0		ug/Kg-dry	243860	1	06/08/2017 12:28	MD
1,2-Dibromoethane	BRL	3.0		ug/Kg-dry	243860	1	06/08/2017 12:28	MD
1,2-Dichlorobenzene	BRL	3.0		ug/Kg-dry	243860	1	06/08/2017 12:28	MD
1,2-Dichloroethane	BRL	3.0		ug/Kg-dry	243860	1	06/08/2017 12:28	MD
1,2-Dichloropropane	BRL	3.0		ug/Kg-dry	243860	1	06/08/2017 12:28	MD
1,3-Dichlorobenzene	BRL	3.0		ug/Kg-dry	243860	1	06/08/2017 12:28	MD
1,4-Dichlorobenzene	BRL	3.0		ug/Kg-dry	243860	1	06/08/2017 12:28	MD
2-Butanone	BRL	30		ug/Kg-dry	243860	1	06/08/2017 12:28	MD
2-Hexanone	BRL	5.9		ug/Kg-dry	243860	1	06/08/2017 12:28	MD
4-Methyl-2-pentanone	BRL	5.9		ug/Kg-dry	243860	1	06/08/2017 12:28	MD
Acetone	75	59		ug/Kg-dry	243860	1	06/08/2017 12:28	MD
Benzene	BRL	3.0		ug/Kg-dry	243860	1	06/08/2017 12:28	MD
Bromodichloromethane	BRL	3.0		ug/Kg-dry	243860	1	06/08/2017 12:28	MD
Bromoform	BRL	3.0		ug/Kg-dry	243860	1	06/08/2017 12:28	MD
Bromomethane	BRL	3.0		ug/Kg-dry	243860	1	06/08/2017 12:28	MD
Carbon disulfide	BRL	5.9		ug/Kg-dry	243860	1	06/08/2017 12:28	MD
Carbon tetrachloride	BRL	3.0		ug/Kg-dry	243860	1	06/08/2017 12:28	MD
Chlorobenzene	BRL	3.0		ug/Kg-dry	243860	1	06/08/2017 12:28	MD
Chloroethane	BRL	5.9		ug/Kg-dry	243860	1	06/08/2017 12:28	MD
Chloroform	BRL	3.0		ug/Kg-dry	243860	1	06/08/2017 12:28	MD
Chloromethane	BRL	5.9		ug/Kg-dry	243860	1	06/08/2017 12:28	MD
cis-1,2-Dichloroethene	BRL	3.0		ug/Kg-dry	243860	1	06/08/2017 12:28	MD
cis-1,3-Dichloropropene	BRL	3.0		ug/Kg-dry	243860	1	06/08/2017 12:28	MD
Cyclohexane	BRL	3.0		ug/Kg-dry	243860	1	06/08/2017 12:28	MD
Dibromochloromethane	BRL	3.0		ug/Kg-dry	243860	1	06/08/2017 12:28	MD
Dichlorodifluoromethane	BRL	5.9		ug/Kg-dry	243860	1	06/08/2017 12:28	MD
Ethylbenzene	BRL	3.0		ug/Kg-dry	243860	1	06/08/2017 12:28	MD
Freon-113	BRL	5.9		ug/Kg-dry	243860	1	06/08/2017 12:28	MD
Isopropylbenzene	BRL	3.0		ug/Kg-dry	243860	1	06/08/2017 12:28	MD
m,p-Xylene	BRL	3.0		ug/Kg-dry	243860	1	06/08/2017 12:28	MD
Methyl acetate	BRL	3.0		ug/Kg-dry	243860	1	06/08/2017 12:28	MD
Methyl tert-butyl ether	BRL	3.0		ug/Kg-dry	243860	1	06/08/2017 12:28	MD
Methylcyclohexane	BRL	3.0		ug/Kg-dry	243860	1	06/08/2017 12:28	MD
Methylene chloride	BRL	12		ug/Kg-dry	243860	1	06/08/2017 12:28	MD
o-Xylene	BRL	3.0		ug/Kg-dry	243860	1	06/08/2017 12:28	MD

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:** 12-Jun-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17153-SB-17-4
Project Name:	Grantville Mill	**Collection Date:**	6/2/2017 10:54:00 AM
Lab ID:	1706259-010	**Matrix:**	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5035)**				
Styrene	BRL	3.0		ug/Kg-dry	243860	1	06/08/2017 12:28	MD
Tetrachloroethene	BRL	3.0		ug/Kg-dry	243860	1	06/08/2017 12:28	MD
Toluene	BRL	3.0		ug/Kg-dry	243860	1	06/08/2017 12:28	MD
trans-1,2-Dichloroethene	BRL	3.0		ug/Kg-dry	243860	1	06/08/2017 12:28	MD
trans-1,3-Dichloropropene	BRL	3.0		ug/Kg-dry	243860	1	06/08/2017 12:28	MD
Trichloroethene	BRL	3.0		ug/Kg-dry	243860	1	06/08/2017 12:28	MD
Trichlorofluoromethane	BRL	3.0		ug/Kg-dry	243860	1	06/08/2017 12:28	MD
Vinyl chloride	BRL	5.9		ug/Kg-dry	243860	1	06/08/2017 12:28	MD
Surr: 4-Bromofluorobenzene	94.6	63-125		%REC	243860	1	06/08/2017 12:28	MD
Surr: Dibromofluoromethane	104	69.9-123		%REC	243860	1	06/08/2017 12:28	MD
Surr: Toluene-d8	104	70-122		%REC	243860	1	06/08/2017 12:28	MD
PERCENT MOISTURE D2216								
Percent Moisture	28.3	0		wt%	R344800	1	06/06/2017 11:00	JC

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:** 12-Jun-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17153-SB-18-2
Project Name:	Grantville Mill	**Collection Date:**	6/2/2017 12:14:00 PM
Lab ID:	1706259-011	**Matrix:**	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5035)**				
1,1,1-Trichloroethane	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 12:52	MD
1,1,2,2-Tetrachloroethane	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 12:52	MD
1,1,2-Trichloroethane	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 12:52	MD
1,1-Dichloroethane	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 12:52	MD
1,1-Dichloroethene	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 12:52	MD
1,2,4-Trichlorobenzene	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 12:52	MD
1,2-Dibromo-3-chloropropane	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 12:52	MD
1,2-Dibromoethane	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 12:52	MD
1,2-Dichlorobenzene	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 12:52	MD
1,2-Dichloroethane	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 12:52	MD
1,2-Dichloropropane	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 12:52	MD
1,3-Dichlorobenzene	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 12:52	MD
1,4-Dichlorobenzene	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 12:52	MD
2-Butanone	BRL	40		ug/Kg-dry	243860	1	06/08/2017 12:52	MD
2-Hexanone	BRL	8.1		ug/Kg-dry	243860	1	06/08/2017 12:52	MD
4-Methyl-2-pentanone	BRL	8.1		ug/Kg-dry	243860	1	06/08/2017 12:52	MD
Acetone	BRL	81		ug/Kg-dry	243860	1	06/08/2017 12:52	MD
Benzene	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 12:52	MD
Bromodichloromethane	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 12:52	MD
Bromoform	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 12:52	MD
Bromomethane	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 12:52	MD
Carbon disulfide	BRL	8.1		ug/Kg-dry	243860	1	06/08/2017 12:52	MD
Carbon tetrachloride	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 12:52	MD
Chlorobenzene	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 12:52	MD
Chloroethane	BRL	8.1		ug/Kg-dry	243860	1	06/08/2017 12:52	MD
Chloroform	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 12:52	MD
Chloromethane	BRL	8.1		ug/Kg-dry	243860	1	06/08/2017 12:52	MD
cis-1,2-Dichloroethene	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 12:52	MD
cis-1,3-Dichloropropene	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 12:52	MD
Cyclohexane	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 12:52	MD
Dibromochloromethane	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 12:52	MD
Dichlorodifluoromethane	BRL	8.1		ug/Kg-dry	243860	1	06/08/2017 12:52	MD
Ethylbenzene	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 12:52	MD
Freon-113	BRL	8.1		ug/Kg-dry	243860	1	06/08/2017 12:52	MD
Isopropylbenzene	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 12:52	MD
m,p-Xylene	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 12:52	MD
Methyl acetate	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 12:52	MD
Methyl tert-butyl ether	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 12:52	MD
Methylcyclohexane	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 12:52	MD
Methylene chloride	BRL	16		ug/Kg-dry	243860	1	06/08/2017 12:52	MD
o-Xylene	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 12:52	MD

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:** 12-Jun-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17153-SB-18-2
Project Name:	Grantville Mill	**Collection Date:**	6/2/2017 12:14:00 PM
Lab ID:	1706259-011	**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	243860	1	06/08/2017 12:52	MD
Tetrachloroethene	4.3	4.0		ug/Kg-dry	243860	1	06/08/2017 12:52	MD
Toluene	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 12:52	MD
trans-1,2-Dichloroethene	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 12:52	MD
trans-1,3-Dichloropropene	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 12:52	MD
Trichloroethene	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 12:52	MD
Trichlorofluoromethane	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 12:52	MD
Vinyl chloride	BRL	8.1		ug/Kg-dry	243860	1	06/08/2017 12:52	MD
Surr: 4-Bromofluorobenzene	84.6	63-125		%REC	243860	1	06/08/2017 12:52	MD
Surr: Dibromofluoromethane	96.4	69.9-123		%REC	243860	1	06/08/2017 12:52	MD
Surr: Toluene-d8	100	70-122		%REC	243860	1	06/08/2017 12:52	MD
PERCENT MOISTURE D2216								
Percent Moisture	31.6	0		wt%	R344800	1	06/06/2017 11:00	JC

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:** 12-Jun-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17153-SB-18-4
Project Name:	Grantville Mill	**Collection Date:**	6/2/2017 12:20:00 PM
Lab ID:	1706259-012	**Matrix:**	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5035)**				
1,1,1-Trichloroethane	BRL	3.4		ug/Kg-dry	243860	1	06/08/2017 13:16	MD
1,1,2,2-Tetrachloroethane	BRL	3.4		ug/Kg-dry	243860	1	06/08/2017 13:16	MD
1,1,2-Trichloroethane	BRL	3.4		ug/Kg-dry	243860	1	06/08/2017 13:16	MD
1,1-Dichloroethane	BRL	3.4		ug/Kg-dry	243860	1	06/08/2017 13:16	MD
1,1-Dichloroethene	BRL	3.4		ug/Kg-dry	243860	1	06/08/2017 13:16	MD
1,2,4-Trichlorobenzene	BRL	3.4		ug/Kg-dry	243860	1	06/08/2017 13:16	MD
1,2-Dibromo-3-chloropropane	BRL	3.4		ug/Kg-dry	243860	1	06/08/2017 13:16	MD
1,2-Dibromoethane	BRL	3.4		ug/Kg-dry	243860	1	06/08/2017 13:16	MD
1,2-Dichlorobenzene	BRL	3.4		ug/Kg-dry	243860	1	06/08/2017 13:16	MD
1,2-Dichloroethane	BRL	3.4		ug/Kg-dry	243860	1	06/08/2017 13:16	MD
1,2-Dichloropropane	BRL	3.4		ug/Kg-dry	243860	1	06/08/2017 13:16	MD
1,3-Dichlorobenzene	BRL	3.4		ug/Kg-dry	243860	1	06/08/2017 13:16	MD
1,4-Dichlorobenzene	BRL	3.4		ug/Kg-dry	243860	1	06/08/2017 13:16	MD
2-Butanone	BRL	34		ug/Kg-dry	243860	1	06/08/2017 13:16	MD
2-Hexanone	BRL	6.7		ug/Kg-dry	243860	1	06/08/2017 13:16	MD
4-Methyl-2-pentanone	BRL	6.7		ug/Kg-dry	243860	1	06/08/2017 13:16	MD
Acetone	BRL	67		ug/Kg-dry	243860	1	06/08/2017 13:16	MD
Benzene	BRL	3.4		ug/Kg-dry	243860	1	06/08/2017 13:16	MD
Bromodichloromethane	BRL	3.4		ug/Kg-dry	243860	1	06/08/2017 13:16	MD
Bromoform	BRL	3.4		ug/Kg-dry	243860	1	06/08/2017 13:16	MD
Bromomethane	BRL	3.4		ug/Kg-dry	243860	1	06/08/2017 13:16	MD
Carbon disulfide	BRL	6.7		ug/Kg-dry	243860	1	06/08/2017 13:16	MD
Carbon tetrachloride	BRL	3.4		ug/Kg-dry	243860	1	06/08/2017 13:16	MD
Chlorobenzene	BRL	3.4		ug/Kg-dry	243860	1	06/08/2017 13:16	MD
Chloroethane	BRL	6.7		ug/Kg-dry	243860	1	06/08/2017 13:16	MD
Chloroform	BRL	3.4		ug/Kg-dry	243860	1	06/08/2017 13:16	MD
Chloromethane	BRL	6.7		ug/Kg-dry	243860	1	06/08/2017 13:16	MD
cis-1,2-Dichloroethene	BRL	3.4		ug/Kg-dry	243860	1	06/08/2017 13:16	MD
cis-1,3-Dichloropropene	BRL	3.4		ug/Kg-dry	243860	1	06/08/2017 13:16	MD
Cyclohexane	BRL	3.4		ug/Kg-dry	243860	1	06/08/2017 13:16	MD
Dibromochloromethane	BRL	3.4		ug/Kg-dry	243860	1	06/08/2017 13:16	MD
Dichlorodifluoromethane	BRL	6.7		ug/Kg-dry	243860	1	06/08/2017 13:16	MD
Ethylbenzene	BRL	3.4		ug/Kg-dry	243860	1	06/08/2017 13:16	MD
Freon-113	BRL	6.7		ug/Kg-dry	243860	1	06/08/2017 13:16	MD
Isopropylbenzene	BRL	3.4		ug/Kg-dry	243860	1	06/08/2017 13:16	MD
m,p-Xylene	BRL	3.4		ug/Kg-dry	243860	1	06/08/2017 13:16	MD
Methyl acetate	BRL	3.4		ug/Kg-dry	243860	1	06/08/2017 13:16	MD
Methyl tert-butyl ether	BRL	3.4		ug/Kg-dry	243860	1	06/08/2017 13:16	MD
Methylcyclohexane	BRL	3.4		ug/Kg-dry	243860	1	06/08/2017 13:16	MD
Methylene chloride	BRL	13		ug/Kg-dry	243860	1	06/08/2017 13:16	MD
o-Xylene	BRL	3.4		ug/Kg-dry	243860	1	06/08/2017 13:16	MD

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:** 12-Jun-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17153-SB-18-4
Project Name:	Grantville Mill	**Collection Date:**	6/2/2017 12:20:00 PM
Lab ID:	1706259-012	**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	243860	1	06/08/2017 13:16	MD
Tetrachloroethene	BRL	3.4		ug/Kg-dry	243860	1	06/08/2017 13:16	MD
Toluene	BRL	3.4		ug/Kg-dry	243860	1	06/08/2017 13:16	MD
trans-1,2-Dichloroethene	BRL	3.4		ug/Kg-dry	243860	1	06/08/2017 13:16	MD
trans-1,3-Dichloropropene	BRL	3.4		ug/Kg-dry	243860	1	06/08/2017 13:16	MD
Trichloroethene	BRL	3.4		ug/Kg-dry	243860	1	06/08/2017 13:16	MD
Trichlorofluoromethane	BRL	3.4		ug/Kg-dry	243860	1	06/08/2017 13:16	MD
Vinyl chloride	BRL	6.7		ug/Kg-dry	243860	1	06/08/2017 13:16	MD
Surr: 4-Bromofluorobenzene	94.3	63-125		%REC	243860	1	06/08/2017 13:16	MD
Surr: Dibromofluoromethane	99.1	69.9-123		%REC	243860	1	06/08/2017 13:16	MD
Surr: Toluene-d8	105	70-122		%REC	243860	1	06/08/2017 13:16	MD
PERCENT MOISTURE D2216								
Percent Moisture	20.8	0		wt%	R344800	1	06/06/2017 11:00	JC

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: 12-Jun-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17153-SB-19-2
Project Name:	Grantville Mill	**Collection Date:**	6/2/2017 12:02:00 PM
Lab ID:	1706259-013	**Matrix:**	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5035)**				
1,1,1-Trichloroethane	BRL	3.3		ug/Kg-dry	243860	1	06/08/2017 13:39	MD
1,1,2,2-Tetrachloroethane	BRL	3.3		ug/Kg-dry	243860	1	06/08/2017 13:39	MD
1,1,2-Trichloroethane	BRL	3.3		ug/Kg-dry	243860	1	06/08/2017 13:39	MD
1,1-Dichloroethane	BRL	3.3		ug/Kg-dry	243860	1	06/08/2017 13:39	MD
1,1-Dichloroethene	BRL	3.3		ug/Kg-dry	243860	1	06/08/2017 13:39	MD
1,2,4-Trichlorobenzene	BRL	3.3		ug/Kg-dry	243860	1	06/08/2017 13:39	MD
1,2-Dibromo-3-chloropropane	BRL	3.3		ug/Kg-dry	243860	1	06/08/2017 13:39	MD
1,2-Dibromoethane	BRL	3.3		ug/Kg-dry	243860	1	06/08/2017 13:39	MD
1,2-Dichlorobenzene	BRL	3.3		ug/Kg-dry	243860	1	06/08/2017 13:39	MD
1,2-Dichloroethane	BRL	3.3		ug/Kg-dry	243860	1	06/08/2017 13:39	MD
1,2-Dichloropropane	BRL	3.3		ug/Kg-dry	243860	1	06/08/2017 13:39	MD
1,3-Dichlorobenzene	BRL	3.3		ug/Kg-dry	243860	1	06/08/2017 13:39	MD
1,4-Dichlorobenzene	BRL	3.3		ug/Kg-dry	243860	1	06/08/2017 13:39	MD
2-Butanone	BRL	33		ug/Kg-dry	243860	1	06/08/2017 13:39	MD
2-Hexanone	BRL	6.5		ug/Kg-dry	243860	1	06/08/2017 13:39	MD
4-Methyl-2-pentanone	BRL	6.5		ug/Kg-dry	243860	1	06/08/2017 13:39	MD
Acetone	BRL	65		ug/Kg-dry	243860	1	06/08/2017 13:39	MD
Benzene	BRL	3.3		ug/Kg-dry	243860	1	06/08/2017 13:39	MD
Bromodichloromethane	BRL	3.3		ug/Kg-dry	243860	1	06/08/2017 13:39	MD
Bromoform	BRL	3.3		ug/Kg-dry	243860	1	06/08/2017 13:39	MD
Bromomethane	BRL	3.3		ug/Kg-dry	243860	1	06/08/2017 13:39	MD
Carbon disulfide	BRL	6.5		ug/Kg-dry	243860	1	06/08/2017 13:39	MD
Carbon tetrachloride	BRL	3.3		ug/Kg-dry	243860	1	06/08/2017 13:39	MD
Chlorobenzene	BRL	3.3		ug/Kg-dry	243860	1	06/08/2017 13:39	MD
Chloroethane	BRL	6.5		ug/Kg-dry	243860	1	06/08/2017 13:39	MD
Chloroform	BRL	3.3		ug/Kg-dry	243860	1	06/08/2017 13:39	MD
Chloromethane	BRL	6.5		ug/Kg-dry	243860	1	06/08/2017 13:39	MD
cis-1,2-Dichloroethene	BRL	3.3		ug/Kg-dry	243860	1	06/08/2017 13:39	MD
cis-1,3-Dichloropropene	BRL	3.3		ug/Kg-dry	243860	1	06/08/2017 13:39	MD
Cyclohexane	BRL	3.3		ug/Kg-dry	243860	1	06/08/2017 13:39	MD
Dibromochloromethane	BRL	3.3		ug/Kg-dry	243860	1	06/08/2017 13:39	MD
Dichlorodifluoromethane	BRL	6.5		ug/Kg-dry	243860	1	06/08/2017 13:39	MD
Ethylbenzene	BRL	3.3		ug/Kg-dry	243860	1	06/08/2017 13:39	MD
Freon-113	BRL	6.5		ug/Kg-dry	243860	1	06/08/2017 13:39	MD
Isopropylbenzene	BRL	3.3		ug/Kg-dry	243860	1	06/08/2017 13:39	MD
m,p-Xylene	BRL	3.3		ug/Kg-dry	243860	1	06/08/2017 13:39	MD
Methyl acetate	BRL	3.3		ug/Kg-dry	243860	1	06/08/2017 13:39	MD
Methyl tert-butyl ether	BRL	3.3		ug/Kg-dry	243860	1	06/08/2017 13:39	MD
Methylcyclohexane	BRL	3.3		ug/Kg-dry	243860	1	06/08/2017 13:39	MD
Methylene chloride	BRL	13		ug/Kg-dry	243860	1	06/08/2017 13:39	MD
o-Xylene	BRL	3.3		ug/Kg-dry	243860	1	06/08/2017 13:39	MD

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:** 12-Jun-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17153-SB-19-2
Project Name:	Grantville Mill	**Collection Date:**	6/2/2017 12:02:00 PM
Lab ID:	1706259-013	**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	243860	1	06/08/2017 13:39	MD
Tetrachloroethene	BRL	3.3		ug/Kg-dry	243860	1	06/08/2017 13:39	MD
Toluene	BRL	3.3		ug/Kg-dry	243860	1	06/08/2017 13:39	MD
trans-1,2-Dichloroethene	BRL	3.3		ug/Kg-dry	243860	1	06/08/2017 13:39	MD
trans-1,3-Dichloropropene	BRL	3.3		ug/Kg-dry	243860	1	06/08/2017 13:39	MD
Trichloroethene	BRL	3.3		ug/Kg-dry	243860	1	06/08/2017 13:39	MD
Trichlorofluoromethane	BRL	3.3		ug/Kg-dry	243860	1	06/08/2017 13:39	MD
Vinyl chloride	BRL	6.5		ug/Kg-dry	243860	1	06/08/2017 13:39	MD
Surr: 4-Bromofluorobenzene	93.4	63-125		%REC	243860	1	06/08/2017 13:39	MD
Surr: Dibromofluoromethane	96.8	69.9-123		%REC	243860	1	06/08/2017 13:39	MD
Surr: Toluene-d8	104	70-122		%REC	243860	1	06/08/2017 13:39	MD
PERCENT MOISTURE D2216								
Percent Moisture	13.8	0		wt%	R344800	1	06/06/2017 11:00	JC

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:** 12-Jun-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17153-SB-19-4
Project Name:	Grantville Mill	**Collection Date:**	6/2/2017 12:05:00 PM
Lab ID:	1706259-014	**Matrix:**	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5035)**				
1,1,1-Trichloroethane	BRL	3.9		ug/Kg-dry	243860	1	06/08/2017 14:03	MD
1,1,2,2-Tetrachloroethane	BRL	3.9		ug/Kg-dry	243860	1	06/08/2017 14:03	MD
1,1,2-Trichloroethane	BRL	3.9		ug/Kg-dry	243860	1	06/08/2017 14:03	MD
1,1-Dichloroethane	BRL	3.9		ug/Kg-dry	243860	1	06/08/2017 14:03	MD
1,1-Dichloroethene	BRL	3.9		ug/Kg-dry	243860	1	06/08/2017 14:03	MD
1,2,4-Trichlorobenzene	BRL	3.9		ug/Kg-dry	243860	1	06/08/2017 14:03	MD
1,2-Dibromo-3-chloropropane	BRL	3.9		ug/Kg-dry	243860	1	06/08/2017 14:03	MD
1,2-Dibromoethane	BRL	3.9		ug/Kg-dry	243860	1	06/08/2017 14:03	MD
1,2-Dichlorobenzene	BRL	3.9		ug/Kg-dry	243860	1	06/08/2017 14:03	MD
1,2-Dichloroethane	BRL	3.9		ug/Kg-dry	243860	1	06/08/2017 14:03	MD
1,2-Dichloropropane	BRL	3.9		ug/Kg-dry	243860	1	06/08/2017 14:03	MD
1,3-Dichlorobenzene	BRL	3.9		ug/Kg-dry	243860	1	06/08/2017 14:03	MD
1,4-Dichlorobenzene	BRL	3.9		ug/Kg-dry	243860	1	06/08/2017 14:03	MD
2-Butanone	BRL	39		ug/Kg-dry	243860	1	06/08/2017 14:03	MD
2-Hexanone	BRL	7.9		ug/Kg-dry	243860	1	06/08/2017 14:03	MD
4-Methyl-2-pentanone	BRL	7.9		ug/Kg-dry	243860	1	06/08/2017 14:03	MD
Acetone	BRL	79		ug/Kg-dry	243860	1	06/08/2017 14:03	MD
Benzene	BRL	3.9		ug/Kg-dry	243860	1	06/08/2017 14:03	MD
Bromodichloromethane	BRL	3.9		ug/Kg-dry	243860	1	06/08/2017 14:03	MD
Bromoform	BRL	3.9		ug/Kg-dry	243860	1	06/08/2017 14:03	MD
Bromomethane	BRL	3.9		ug/Kg-dry	243860	1	06/08/2017 14:03	MD
Carbon disulfide	BRL	7.9		ug/Kg-dry	243860	1	06/08/2017 14:03	MD
Carbon tetrachloride	BRL	3.9		ug/Kg-dry	243860	1	06/08/2017 14:03	MD
Chlorobenzene	BRL	3.9		ug/Kg-dry	243860	1	06/08/2017 14:03	MD
Chloroethane	BRL	7.9		ug/Kg-dry	243860	1	06/08/2017 14:03	MD
Chloroform	BRL	3.9		ug/Kg-dry	243860	1	06/08/2017 14:03	MD
Chloromethane	BRL	7.9		ug/Kg-dry	243860	1	06/08/2017 14:03	MD
cis-1,2-Dichloroethene	BRL	3.9		ug/Kg-dry	243860	1	06/08/2017 14:03	MD
cis-1,3-Dichloropropene	BRL	3.9		ug/Kg-dry	243860	1	06/08/2017 14:03	MD
Cyclohexane	BRL	3.9		ug/Kg-dry	243860	1	06/08/2017 14:03	MD
Dibromochloromethane	BRL	3.9		ug/Kg-dry	243860	1	06/08/2017 14:03	MD
Dichlorodifluoromethane	BRL	7.9		ug/Kg-dry	243860	1	06/08/2017 14:03	MD
Ethylbenzene	BRL	3.9		ug/Kg-dry	243860	1	06/08/2017 14:03	MD
Freon-113	BRL	7.9		ug/Kg-dry	243860	1	06/08/2017 14:03	MD
Isopropylbenzene	BRL	3.9		ug/Kg-dry	243860	1	06/08/2017 14:03	MD
m,p-Xylene	BRL	3.9		ug/Kg-dry	243860	1	06/08/2017 14:03	MD
Methyl acetate	BRL	3.9		ug/Kg-dry	243860	1	06/08/2017 14:03	MD
Methyl tert-butyl ether	BRL	3.9		ug/Kg-dry	243860	1	06/08/2017 14:03	MD
Methylcyclohexane	BRL	3.9		ug/Kg-dry	243860	1	06/08/2017 14:03	MD
Methylene chloride	BRL	16		ug/Kg-dry	243860	1	06/08/2017 14:03	MD
o-Xylene	BRL	3.9		ug/Kg-dry	243860	1	06/08/2017 14:03	MD

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:** 12-Jun-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17153-SB-19-4
Project Name:	Grantville Mill	**Collection Date:**	6/2/2017 12:05:00 PM
Lab ID:	1706259-014	**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	243860	1	06/08/2017 14:03	MD
Tetrachloroethene	BRL	3.9		ug/Kg-dry	243860	1	06/08/2017 14:03	MD
Toluene	BRL	3.9		ug/Kg-dry	243860	1	06/08/2017 14:03	MD
trans-1,2-Dichloroethene	BRL	3.9		ug/Kg-dry	243860	1	06/08/2017 14:03	MD
trans-1,3-Dichloropropene	BRL	3.9		ug/Kg-dry	243860	1	06/08/2017 14:03	MD
Trichloroethene	BRL	3.9		ug/Kg-dry	243860	1	06/08/2017 14:03	MD
Trichlorofluoromethane	BRL	3.9		ug/Kg-dry	243860	1	06/08/2017 14:03	MD
Vinyl chloride	BRL	7.9		ug/Kg-dry	243860	1	06/08/2017 14:03	MD
Surr: 4-Bromofluorobenzene	97.6	63-125		%REC	243860	1	06/08/2017 14:03	MD
Surr: Dibromofluoromethane	102	69.9-123		%REC	243860	1	06/08/2017 14:03	MD
Surr: Toluene-d8	105	70-122		%REC	243860	1	06/08/2017 14:03	MD
PERCENT MOISTURE D2216								
Percent Moisture	32.2	0		wt%	R344800	1	06/06/2017 11:00	JC

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:** 12-Jun-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17153-SB-20-2
Project Name:	Grantville Mill	**Collection Date:**	6/2/2017 11:43:00 AM
Lab ID:	1706259-015	**Matrix:**	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5035)**				
1,1,1-Trichloroethane	BRL	3.3		ug/Kg-dry	243860	1	06/08/2017 14:27	MD
1,1,2,2-Tetrachloroethane	BRL	3.3		ug/Kg-dry	243860	1	06/08/2017 14:27	MD
1,1,2-Trichloroethane	BRL	3.3		ug/Kg-dry	243860	1	06/08/2017 14:27	MD
1,1-Dichloroethane	BRL	3.3		ug/Kg-dry	243860	1	06/08/2017 14:27	MD
1,1-Dichloroethene	BRL	3.3		ug/Kg-dry	243860	1	06/08/2017 14:27	MD
1,2,4-Trichlorobenzene	BRL	3.3		ug/Kg-dry	243860	1	06/08/2017 14:27	MD
1,2-Dibromo-3-chloropropane	BRL	3.3		ug/Kg-dry	243860	1	06/08/2017 14:27	MD
1,2-Dibromoethane	BRL	3.3		ug/Kg-dry	243860	1	06/08/2017 14:27	MD
1,2-Dichlorobenzene	BRL	3.3		ug/Kg-dry	243860	1	06/08/2017 14:27	MD
1,2-Dichloroethane	BRL	3.3		ug/Kg-dry	243860	1	06/08/2017 14:27	MD
1,2-Dichloropropane	BRL	3.3		ug/Kg-dry	243860	1	06/08/2017 14:27	MD
1,3-Dichlorobenzene	BRL	3.3		ug/Kg-dry	243860	1	06/08/2017 14:27	MD
1,4-Dichlorobenzene	BRL	3.3		ug/Kg-dry	243860	1	06/08/2017 14:27	MD
2-Butanone	BRL	33		ug/Kg-dry	243860	1	06/08/2017 14:27	MD
2-Hexanone	BRL	6.6		ug/Kg-dry	243860	1	06/08/2017 14:27	MD
4-Methyl-2-pentanone	BRL	6.6		ug/Kg-dry	243860	1	06/08/2017 14:27	MD
Acetone	BRL	66		ug/Kg-dry	243860	1	06/08/2017 14:27	MD
Benzene	BRL	3.3		ug/Kg-dry	243860	1	06/08/2017 14:27	MD
Bromodichloromethane	BRL	3.3		ug/Kg-dry	243860	1	06/08/2017 14:27	MD
Bromoform	BRL	3.3		ug/Kg-dry	243860	1	06/08/2017 14:27	MD
Bromomethane	BRL	3.3		ug/Kg-dry	243860	1	06/08/2017 14:27	MD
Carbon disulfide	BRL	6.6		ug/Kg-dry	243860	1	06/08/2017 14:27	MD
Carbon tetrachloride	BRL	3.3		ug/Kg-dry	243860	1	06/08/2017 14:27	MD
Chlorobenzene	BRL	3.3		ug/Kg-dry	243860	1	06/08/2017 14:27	MD
Chloroethane	BRL	6.6		ug/Kg-dry	243860	1	06/08/2017 14:27	MD
Chloroform	BRL	3.3		ug/Kg-dry	243860	1	06/08/2017 14:27	MD
Chloromethane	BRL	6.6		ug/Kg-dry	243860	1	06/08/2017 14:27	MD
cis-1,2-Dichloroethene	BRL	3.3		ug/Kg-dry	243860	1	06/08/2017 14:27	MD
cis-1,3-Dichloropropene	BRL	3.3		ug/Kg-dry	243860	1	06/08/2017 14:27	MD
Cyclohexane	BRL	3.3		ug/Kg-dry	243860	1	06/08/2017 14:27	MD
Dibromochloromethane	BRL	3.3		ug/Kg-dry	243860	1	06/08/2017 14:27	MD
Dichlorodifluoromethane	BRL	6.6		ug/Kg-dry	243860	1	06/08/2017 14:27	MD
Ethylbenzene	BRL	3.3		ug/Kg-dry	243860	1	06/08/2017 14:27	MD
Freon-113	BRL	6.6		ug/Kg-dry	243860	1	06/08/2017 14:27	MD
Isopropylbenzene	BRL	3.3		ug/Kg-dry	243860	1	06/08/2017 14:27	MD
m,p-Xylene	BRL	3.3		ug/Kg-dry	243860	1	06/08/2017 14:27	MD
Methyl acetate	BRL	3.3		ug/Kg-dry	243860	1	06/08/2017 14:27	MD
Methyl tert-butyl ether	BRL	3.3		ug/Kg-dry	243860	1	06/08/2017 14:27	MD
Methylcyclohexane	BRL	3.3		ug/Kg-dry	243860	1	06/08/2017 14:27	MD
Methylene chloride	BRL	13		ug/Kg-dry	243860	1	06/08/2017 14:27	MD
o-Xylene	BRL	3.3		ug/Kg-dry	243860	1	06/08/2017 14:27	MD

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:** 12-Jun-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17153-SB-20-2
Project Name:	Grantville Mill	**Collection Date:**	6/2/2017 11:43:00 AM
Lab ID:	1706259-015	**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	243860	1	06/08/2017 14:27	MD
Tetrachloroethene	BRL	3.3		ug/Kg-dry	243860	1	06/08/2017 14:27	MD
Toluene	BRL	3.3		ug/Kg-dry	243860	1	06/08/2017 14:27	MD
trans-1,2-Dichloroethene	BRL	3.3		ug/Kg-dry	243860	1	06/08/2017 14:27	MD
trans-1,3-Dichloropropene	BRL	3.3		ug/Kg-dry	243860	1	06/08/2017 14:27	MD
Trichloroethene	BRL	3.3		ug/Kg-dry	243860	1	06/08/2017 14:27	MD
Trichlorofluoromethane	BRL	3.3		ug/Kg-dry	243860	1	06/08/2017 14:27	MD
Vinyl chloride	BRL	6.6		ug/Kg-dry	243860	1	06/08/2017 14:27	MD
Surr: 4-Bromofluorobenzene	96.7	63-125		%REC	243860	1	06/08/2017 14:27	MD
Surr: Dibromofluoromethane	101	69.9-123		%REC	243860	1	06/08/2017 14:27	MD
Surr: Toluene-d8	104	70-122		%REC	243860	1	06/08/2017 14:27	MD
PERCENT MOISTURE D2216								
Percent Moisture	18.2	0		wt%	R344800	1	06/06/2017 11:00	JC

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:** 12-Jun-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17153-SB-20-4
Project Name:	Grantville Mill	**Collection Date:**	6/2/2017 11:52:00 AM
Lab ID:	1706259-016	**Matrix:**	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5035)**				
1,1,1-Trichloroethane	BRL	5.1		ug/Kg-dry	243860	1	06/08/2017 14:51	MD
1,1,2,2-Tetrachloroethane	BRL	5.1		ug/Kg-dry	243860	1	06/08/2017 14:51	MD
1,1,2-Trichloroethane	BRL	5.1		ug/Kg-dry	243860	1	06/08/2017 14:51	MD
1,1-Dichloroethane	BRL	5.1		ug/Kg-dry	243860	1	06/08/2017 14:51	MD
1,1-Dichloroethene	BRL	5.1		ug/Kg-dry	243860	1	06/08/2017 14:51	MD
1,2,4-Trichlorobenzene	BRL	5.1		ug/Kg-dry	243860	1	06/08/2017 14:51	MD
1,2-Dibromo-3-chloropropane	BRL	5.1		ug/Kg-dry	243860	1	06/08/2017 14:51	MD
1,2-Dibromoethane	BRL	5.1		ug/Kg-dry	243860	1	06/08/2017 14:51	MD
1,2-Dichlorobenzene	BRL	5.1		ug/Kg-dry	243860	1	06/08/2017 14:51	MD
1,2-Dichloroethane	BRL	5.1		ug/Kg-dry	243860	1	06/08/2017 14:51	MD
1,2-Dichloropropane	BRL	5.1		ug/Kg-dry	243860	1	06/08/2017 14:51	MD
1,3-Dichlorobenzene	BRL	5.1		ug/Kg-dry	243860	1	06/08/2017 14:51	MD
1,4-Dichlorobenzene	BRL	5.1		ug/Kg-dry	243860	1	06/08/2017 14:51	MD
2-Butanone	BRL	51		ug/Kg-dry	243860	1	06/08/2017 14:51	MD
2-Hexanone	BRL	10		ug/Kg-dry	243860	1	06/08/2017 14:51	MD
4-Methyl-2-pentanone	BRL	10		ug/Kg-dry	243860	1	06/08/2017 14:51	MD
Acetone	BRL	100		ug/Kg-dry	243860	1	06/08/2017 14:51	MD
Benzene	BRL	5.1		ug/Kg-dry	243860	1	06/08/2017 14:51	MD
Bromodichloromethane	BRL	5.1		ug/Kg-dry	243860	1	06/08/2017 14:51	MD
Bromoform	BRL	5.1		ug/Kg-dry	243860	1	06/08/2017 14:51	MD
Bromomethane	BRL	5.1		ug/Kg-dry	243860	1	06/08/2017 14:51	MD
Carbon disulfide	BRL	10		ug/Kg-dry	243860	1	06/08/2017 14:51	MD
Carbon tetrachloride	BRL	5.1		ug/Kg-dry	243860	1	06/08/2017 14:51	MD
Chlorobenzene	BRL	5.1		ug/Kg-dry	243860	1	06/08/2017 14:51	MD
Chloroethane	BRL	10		ug/Kg-dry	243860	1	06/08/2017 14:51	MD
Chloroform	BRL	5.1		ug/Kg-dry	243860	1	06/08/2017 14:51	MD
Chloromethane	BRL	10		ug/Kg-dry	243860	1	06/08/2017 14:51	MD
cis-1,2-Dichloroethene	BRL	5.1		ug/Kg-dry	243860	1	06/08/2017 14:51	MD
cis-1,3-Dichloropropene	BRL	5.1		ug/Kg-dry	243860	1	06/08/2017 14:51	MD
Cyclohexane	BRL	5.1		ug/Kg-dry	243860	1	06/08/2017 14:51	MD
Dibromochloromethane	BRL	5.1		ug/Kg-dry	243860	1	06/08/2017 14:51	MD
Dichlorodifluoromethane	BRL	10		ug/Kg-dry	243860	1	06/08/2017 14:51	MD
Ethylbenzene	BRL	5.1		ug/Kg-dry	243860	1	06/08/2017 14:51	MD
Freon-113	BRL	10		ug/Kg-dry	243860	1	06/08/2017 14:51	MD
Isopropylbenzene	BRL	5.1		ug/Kg-dry	243860	1	06/08/2017 14:51	MD
m,p-Xylene	BRL	5.1		ug/Kg-dry	243860	1	06/08/2017 14:51	MD
Methyl acetate	BRL	5.1		ug/Kg-dry	243860	1	06/08/2017 14:51	MD
Methyl tert-butyl ether	BRL	5.1		ug/Kg-dry	243860	1	06/08/2017 14:51	MD
Methylcyclohexane	BRL	5.1		ug/Kg-dry	243860	1	06/08/2017 14:51	MD
Methylene chloride	BRL	20		ug/Kg-dry	243860	1	06/08/2017 14:51	MD
o-Xylene	BRL	5.1		ug/Kg-dry	243860	1	06/08/2017 14:51	MD

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:** 12-Jun-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17153-SB-20-4
Project Name:	Grantville Mill	**Collection Date:**	6/2/2017 11:52:00 AM
Lab ID:	1706259-016	**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	243860	1	06/08/2017 14:51	MD
Tetrachloroethene	BRL	5.1		ug/Kg-dry	243860	1	06/08/2017 14:51	MD
Toluene	BRL	5.1		ug/Kg-dry	243860	1	06/08/2017 14:51	MD
trans-1,2-Dichloroethene	BRL	5.1		ug/Kg-dry	243860	1	06/08/2017 14:51	MD
trans-1,3-Dichloropropene	BRL	5.1		ug/Kg-dry	243860	1	06/08/2017 14:51	MD
Trichloroethene	BRL	5.1		ug/Kg-dry	243860	1	06/08/2017 14:51	MD
Trichlorofluoromethane	BRL	5.1		ug/Kg-dry	243860	1	06/08/2017 14:51	MD
Vinyl chloride	BRL	10		ug/Kg-dry	243860	1	06/08/2017 14:51	MD
Surr: 4-Bromofluorobenzene	94.1	63-125		%REC	243860	1	06/08/2017 14:51	MD
Surr: Dibromofluoromethane	102	69.9-123		%REC	243860	1	06/08/2017 14:51	MD
Surr: Toluene-d8	104	70-122		%REC	243860	1	06/08/2017 14:51	MD
PERCENT MOISTURE D2216								
Percent Moisture	37.1	0		wt%	R344800	1	06/06/2017 11:00	JC

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:** 12-Jun-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17153-SB-21-2
Project Name:	Grantville Mill	**Collection Date:**	6/2/2017 11:25:00 AM
Lab ID:	1706259-017	**Matrix:**	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5035)**				
1,1,1-Trichloroethane	BRL	4.3		ug/Kg-dry	243860	1	06/08/2017 15:15	MD
1,1,2,2-Tetrachloroethane	BRL	4.3		ug/Kg-dry	243860	1	06/08/2017 15:15	MD
1,1,2-Trichloroethane	BRL	4.3		ug/Kg-dry	243860	1	06/08/2017 15:15	MD
1,1-Dichloroethane	BRL	4.3		ug/Kg-dry	243860	1	06/08/2017 15:15	MD
1,1-Dichloroethene	BRL	4.3		ug/Kg-dry	243860	1	06/08/2017 15:15	MD
1,2,4-Trichlorobenzene	BRL	4.3		ug/Kg-dry	243860	1	06/08/2017 15:15	MD
1,2-Dibromo-3-chloropropane	BRL	4.3		ug/Kg-dry	243860	1	06/08/2017 15:15	MD
1,2-Dibromoethane	BRL	4.3		ug/Kg-dry	243860	1	06/08/2017 15:15	MD
1,2-Dichlorobenzene	BRL	4.3		ug/Kg-dry	243860	1	06/08/2017 15:15	MD
1,2-Dichloroethane	BRL	4.3		ug/Kg-dry	243860	1	06/08/2017 15:15	MD
1,2-Dichloropropane	BRL	4.3		ug/Kg-dry	243860	1	06/08/2017 15:15	MD
1,3-Dichlorobenzene	BRL	4.3		ug/Kg-dry	243860	1	06/08/2017 15:15	MD
1,4-Dichlorobenzene	BRL	4.3		ug/Kg-dry	243860	1	06/08/2017 15:15	MD
2-Butanone	BRL	43		ug/Kg-dry	243860	1	06/08/2017 15:15	MD
2-Hexanone	BRL	8.5		ug/Kg-dry	243860	1	06/08/2017 15:15	MD
4-Methyl-2-pentanone	BRL	8.5		ug/Kg-dry	243860	1	06/08/2017 15:15	MD
Acetone	BRL	85		ug/Kg-dry	243860	1	06/08/2017 15:15	MD
Benzene	BRL	4.3		ug/Kg-dry	243860	1	06/08/2017 15:15	MD
Bromodichloromethane	BRL	4.3		ug/Kg-dry	243860	1	06/08/2017 15:15	MD
Bromoform	BRL	4.3		ug/Kg-dry	243860	1	06/08/2017 15:15	MD
Bromomethane	BRL	4.3		ug/Kg-dry	243860	1	06/08/2017 15:15	MD
Carbon disulfide	BRL	8.5		ug/Kg-dry	243860	1	06/08/2017 15:15	MD
Carbon tetrachloride	BRL	4.3		ug/Kg-dry	243860	1	06/08/2017 15:15	MD
Chlorobenzene	BRL	4.3		ug/Kg-dry	243860	1	06/08/2017 15:15	MD
Chloroethane	BRL	8.5		ug/Kg-dry	243860	1	06/08/2017 15:15	MD
Chloroform	BRL	4.3		ug/Kg-dry	243860	1	06/08/2017 15:15	MD
Chloromethane	BRL	8.5		ug/Kg-dry	243860	1	06/08/2017 15:15	MD
cis-1,2-Dichloroethene	BRL	4.3		ug/Kg-dry	243860	1	06/08/2017 15:15	MD
cis-1,3-Dichloropropene	BRL	4.3		ug/Kg-dry	243860	1	06/08/2017 15:15	MD
Cyclohexane	BRL	4.3		ug/Kg-dry	243860	1	06/08/2017 15:15	MD
Dibromochloromethane	BRL	4.3		ug/Kg-dry	243860	1	06/08/2017 15:15	MD
Dichlorodifluoromethane	BRL	8.5		ug/Kg-dry	243860	1	06/08/2017 15:15	MD
Ethylbenzene	BRL	4.3		ug/Kg-dry	243860	1	06/08/2017 15:15	MD
Freon-113	BRL	8.5		ug/Kg-dry	243860	1	06/08/2017 15:15	MD
Isopropylbenzene	BRL	4.3		ug/Kg-dry	243860	1	06/08/2017 15:15	MD
m,p-Xylene	BRL	4.3		ug/Kg-dry	243860	1	06/08/2017 15:15	MD
Methyl acetate	BRL	4.3		ug/Kg-dry	243860	1	06/08/2017 15:15	MD
Methyl tert-butyl ether	BRL	4.3		ug/Kg-dry	243860	1	06/08/2017 15:15	MD
Methylcyclohexane	BRL	4.3		ug/Kg-dry	243860	1	06/08/2017 15:15	MD
Methylene chloride	BRL	17		ug/Kg-dry	243860	1	06/08/2017 15:15	MD
o-Xylene	BRL	4.3		ug/Kg-dry	243860	1	06/08/2017 15:15	MD

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:** 12-Jun-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17153-SB-21-2
Project Name:	Grantville Mill	**Collection Date:**	6/2/2017 11:25:00 AM
Lab ID:	1706259-017	**Matrix:**	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5035)**				
Styrene	BRL	4.3		ug/Kg-dry	243860	1	06/08/2017 15:15	MD
Tetrachloroethene	BRL	4.3		ug/Kg-dry	243860	1	06/08/2017 15:15	MD
Toluene	BRL	4.3		ug/Kg-dry	243860	1	06/08/2017 15:15	MD
trans-1,2-Dichloroethene	BRL	4.3		ug/Kg-dry	243860	1	06/08/2017 15:15	MD
trans-1,3-Dichloropropene	BRL	4.3		ug/Kg-dry	243860	1	06/08/2017 15:15	MD
Trichloroethene	BRL	4.3		ug/Kg-dry	243860	1	06/08/2017 15:15	MD
Trichlorofluoromethane	BRL	4.3		ug/Kg-dry	243860	1	06/08/2017 15:15	MD
Vinyl chloride	BRL	8.5		ug/Kg-dry	243860	1	06/08/2017 15:15	MD
Surr: 4-Bromofluorobenzene	99.5	63-125		%REC	243860	1	06/08/2017 15:15	MD
Surr: Dibromofluoromethane	102	69.9-123		%REC	243860	1	06/08/2017 15:15	MD
Surr: Toluene-d8	104	70-122		%REC	243860	1	06/08/2017 15:15	MD
PERCENT MOISTURE D2216								
Percent Moisture	25.6	0		wt%	R344800	1	06/06/2017 11:00	JC

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:** 12-Jun-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17153-SB-21-4
Project Name:	Grantville Mill	**Collection Date:**	6/2/2017 11:30:00 AM
Lab ID:	1706259-018	**Matrix:**	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5035)**				
1,1,1-Trichloroethane	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 15:38	MD
1,1,2,2-Tetrachloroethane	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 15:38	MD
1,1,2-Trichloroethane	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 15:38	MD
1,1-Dichloroethane	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 15:38	MD
1,1-Dichloroethene	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 15:38	MD
1,2,4-Trichlorobenzene	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 15:38	MD
1,2-Dibromo-3-chloropropane	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 15:38	MD
1,2-Dibromoethane	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 15:38	MD
1,2-Dichlorobenzene	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 15:38	MD
1,2-Dichloroethane	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 15:38	MD
1,2-Dichloropropane	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 15:38	MD
1,3-Dichlorobenzene	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 15:38	MD
1,4-Dichlorobenzene	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 15:38	MD
2-Butanone	BRL	40		ug/Kg-dry	243860	1	06/08/2017 15:38	MD
2-Hexanone	BRL	7.9		ug/Kg-dry	243860	1	06/08/2017 15:38	MD
4-Methyl-2-pentanone	BRL	7.9		ug/Kg-dry	243860	1	06/08/2017 15:38	MD
Acetone	BRL	79		ug/Kg-dry	243860	1	06/08/2017 15:38	MD
Benzene	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 15:38	MD
Bromodichloromethane	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 15:38	MD
Bromoform	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 15:38	MD
Bromomethane	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 15:38	MD
Carbon disulfide	BRL	7.9		ug/Kg-dry	243860	1	06/08/2017 15:38	MD
Carbon tetrachloride	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 15:38	MD
Chlorobenzene	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 15:38	MD
Chloroethane	BRL	7.9		ug/Kg-dry	243860	1	06/08/2017 15:38	MD
Chloroform	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 15:38	MD
Chloromethane	BRL	7.9		ug/Kg-dry	243860	1	06/08/2017 15:38	MD
cis-1,2-Dichloroethene	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 15:38	MD
cis-1,3-Dichloropropene	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 15:38	MD
Cyclohexane	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 15:38	MD
Dibromochloromethane	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 15:38	MD
Dichlorodifluoromethane	BRL	7.9		ug/Kg-dry	243860	1	06/08/2017 15:38	MD
Ethylbenzene	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 15:38	MD
Freon-113	BRL	7.9		ug/Kg-dry	243860	1	06/08/2017 15:38	MD
Isopropylbenzene	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 15:38	MD
m,p-Xylene	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 15:38	MD
Methyl acetate	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 15:38	MD
Methyl tert-butyl ether	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 15:38	MD
Methylcyclohexane	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 15:38	MD
Methylene chloride	BRL	16		ug/Kg-dry	243860	1	06/08/2017 15:38	MD
o-Xylene	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 15:38	MD

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:** 12-Jun-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17153-SB-21-4
Project Name:	Grantville Mill	**Collection Date:**	6/2/2017 11:30:00 AM
Lab ID:	1706259-018	**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	243860	1	06/08/2017 15:38	MD
Tetrachloroethene	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 15:38	MD
Toluene	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 15:38	MD
trans-1,2-Dichloroethene	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 15:38	MD
trans-1,3-Dichloropropene	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 15:38	MD
Trichloroethene	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 15:38	MD
Trichlorofluoromethane	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 15:38	MD
Vinyl chloride	BRL	7.9		ug/Kg-dry	243860	1	06/08/2017 15:38	MD
Surr: 4-Bromofluorobenzene	93.7	63-125		%REC	243860	1	06/08/2017 15:38	MD
Surr: Dibromofluoromethane	95.8	69.9-123		%REC	243860	1	06/08/2017 15:38	MD
Surr: Toluene-d8	103	70-122		%REC	243860	1	06/08/2017 15:38	MD
PERCENT MOISTURE D2216								
Percent Moisture	22.7	0		wt%	R344800	1	06/06/2017 11:00	JC

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: 12-Jun-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17153-SB-22-2
Project Name:	Grantville Mill	**Collection Date:**	6/2/2017 11:15:00 AM
Lab ID:	1706259-019	**Matrix:**	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5035)**				
1,1,1-Trichloroethane	BRL	3.9		ug/Kg-dry	243860	1	06/08/2017 16:42	MD
1,1,2,2-Tetrachloroethane	BRL	3.9		ug/Kg-dry	243860	1	06/08/2017 16:42	MD
1,1,2-Trichloroethane	BRL	3.9		ug/Kg-dry	243860	1	06/08/2017 16:42	MD
1,1-Dichloroethane	BRL	3.9		ug/Kg-dry	243860	1	06/08/2017 16:42	MD
1,1-Dichloroethene	BRL	3.9		ug/Kg-dry	243860	1	06/08/2017 16:42	MD
1,2,4-Trichlorobenzene	BRL	3.9		ug/Kg-dry	243860	1	06/08/2017 16:42	MD
1,2-Dibromo-3-chloropropane	BRL	3.9		ug/Kg-dry	243860	1	06/08/2017 16:42	MD
1,2-Dibromoethane	BRL	3.9		ug/Kg-dry	243860	1	06/08/2017 16:42	MD
1,2-Dichlorobenzene	BRL	3.9		ug/Kg-dry	243860	1	06/08/2017 16:42	MD
1,2-Dichloroethane	BRL	3.9		ug/Kg-dry	243860	1	06/08/2017 16:42	MD
1,2-Dichloropropane	BRL	3.9		ug/Kg-dry	243860	1	06/08/2017 16:42	MD
1,3-Dichlorobenzene	BRL	3.9		ug/Kg-dry	243860	1	06/08/2017 16:42	MD
1,4-Dichlorobenzene	BRL	3.9		ug/Kg-dry	243860	1	06/08/2017 16:42	MD
2-Butanone	BRL	39		ug/Kg-dry	243860	1	06/08/2017 16:42	MD
2-Hexanone	BRL	7.7		ug/Kg-dry	243860	1	06/08/2017 16:42	MD
4-Methyl-2-pentanone	BRL	7.7		ug/Kg-dry	243860	1	06/08/2017 16:42	MD
Acetone	BRL	77		ug/Kg-dry	243860	1	06/08/2017 16:42	MD
Benzene	BRL	3.9		ug/Kg-dry	243860	1	06/08/2017 16:42	MD
Bromodichloromethane	BRL	3.9		ug/Kg-dry	243860	1	06/08/2017 16:42	MD
Bromoform	BRL	3.9		ug/Kg-dry	243860	1	06/08/2017 16:42	MD
Bromomethane	BRL	3.9		ug/Kg-dry	243860	1	06/08/2017 16:42	MD
Carbon disulfide	BRL	7.7		ug/Kg-dry	243860	1	06/08/2017 16:42	MD
Carbon tetrachloride	BRL	3.9		ug/Kg-dry	243860	1	06/08/2017 16:42	MD
Chlorobenzene	BRL	3.9		ug/Kg-dry	243860	1	06/08/2017 16:42	MD
Chloroethane	BRL	7.7		ug/Kg-dry	243860	1	06/08/2017 16:42	MD
Chloroform	BRL	3.9		ug/Kg-dry	243860	1	06/08/2017 16:42	MD
Chloromethane	BRL	7.7		ug/Kg-dry	243860	1	06/08/2017 16:42	MD
cis-1,2-Dichloroethene	BRL	3.9		ug/Kg-dry	243860	1	06/08/2017 16:42	MD
cis-1,3-Dichloropropene	BRL	3.9		ug/Kg-dry	243860	1	06/08/2017 16:42	MD
Cyclohexane	BRL	3.9		ug/Kg-dry	243860	1	06/08/2017 16:42	MD
Dibromochloromethane	BRL	3.9		ug/Kg-dry	243860	1	06/08/2017 16:42	MD
Dichlorodifluoromethane	BRL	7.7		ug/Kg-dry	243860	1	06/08/2017 16:42	MD
Ethylbenzene	BRL	3.9		ug/Kg-dry	243860	1	06/08/2017 16:42	MD
Freon-113	BRL	7.7		ug/Kg-dry	243860	1	06/08/2017 16:42	MD
Isopropylbenzene	BRL	3.9		ug/Kg-dry	243860	1	06/08/2017 16:42	MD
m,p-Xylene	BRL	3.9		ug/Kg-dry	243860	1	06/08/2017 16:42	MD
Methyl acetate	BRL	3.9		ug/Kg-dry	243860	1	06/08/2017 16:42	MD
Methyl tert-butyl ether	BRL	3.9		ug/Kg-dry	243860	1	06/08/2017 16:42	MD
Methylcyclohexane	BRL	3.9		ug/Kg-dry	243860	1	06/08/2017 16:42	MD
Methylene chloride	BRL	15		ug/Kg-dry	243860	1	06/08/2017 16:42	MD
o-Xylene	BRL	3.9		ug/Kg-dry	243860	1	06/08/2017 16:42	MD

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:** 12-Jun-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17153-SB-22-2
Project Name:	Grantville Mill	**Collection Date:**	6/2/2017 11:15:00 AM
Lab ID:	1706259-019	**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	243860	1	06/08/2017 16:42	MD
Tetrachloroethene	BRL	3.9		ug/Kg-dry	243860	1	06/08/2017 16:42	MD
Toluene	BRL	3.9		ug/Kg-dry	243860	1	06/08/2017 16:42	MD
trans-1,2-Dichloroethene	BRL	3.9		ug/Kg-dry	243860	1	06/08/2017 16:42	MD
trans-1,3-Dichloropropene	BRL	3.9		ug/Kg-dry	243860	1	06/08/2017 16:42	MD
Trichloroethene	BRL	3.9		ug/Kg-dry	243860	1	06/08/2017 16:42	MD
Trichlorofluoromethane	BRL	3.9		ug/Kg-dry	243860	1	06/08/2017 16:42	MD
Vinyl chloride	BRL	7.7		ug/Kg-dry	243860	1	06/08/2017 16:42	MD
Surr: 4-Bromofluorobenzene	97.6	63-125		%REC	243860	1	06/08/2017 16:42	MD
Surr: Dibromofluoromethane	105	69.9-123		%REC	243860	1	06/08/2017 16:42	MD
Surr: Toluene-d8	101	70-122		%REC	243860	1	06/08/2017 16:42	MD
PERCENT MOISTURE D2216								
Percent Moisture	20.8	0		wt%	R344800	1	06/06/2017 11:00	JC

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:** 12-Jun-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17153-SB-22-4
Project Name:	Grantville Mill	**Collection Date:**	6/2/2017 11:18:00 AM
Lab ID:	1706259-020	**Matrix:**	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5035)**				
1,1,1-Trichloroethane	BRL	4.1		ug/Kg-dry	243860	1	06/08/2017 19:52	MD
1,1,2,2-Tetrachloroethane	BRL	4.1		ug/Kg-dry	243860	1	06/08/2017 19:52	MD
1,1,2-Trichloroethane	BRL	4.1		ug/Kg-dry	243860	1	06/08/2017 19:52	MD
1,1-Dichloroethane	BRL	4.1		ug/Kg-dry	243860	1	06/08/2017 19:52	MD
1,1-Dichloroethene	BRL	4.1		ug/Kg-dry	243860	1	06/08/2017 19:52	MD
1,2,4-Trichlorobenzene	BRL	4.1		ug/Kg-dry	243860	1	06/08/2017 19:52	MD
1,2-Dibromo-3-chloropropane	BRL	4.1		ug/Kg-dry	243860	1	06/08/2017 19:52	MD
1,2-Dibromoethane	BRL	4.1		ug/Kg-dry	243860	1	06/08/2017 19:52	MD
1,2-Dichlorobenzene	BRL	4.1		ug/Kg-dry	243860	1	06/08/2017 19:52	MD
1,2-Dichloroethane	BRL	4.1		ug/Kg-dry	243860	1	06/08/2017 19:52	MD
1,2-Dichloropropane	BRL	4.1		ug/Kg-dry	243860	1	06/08/2017 19:52	MD
1,3-Dichlorobenzene	BRL	4.1		ug/Kg-dry	243860	1	06/08/2017 19:52	MD
1,4-Dichlorobenzene	BRL	4.1		ug/Kg-dry	243860	1	06/08/2017 19:52	MD
2-Butanone	BRL	41		ug/Kg-dry	243860	1	06/08/2017 19:52	MD
2-Hexanone	BRL	8.2		ug/Kg-dry	243860	1	06/08/2017 19:52	MD
4-Methyl-2-pentanone	BRL	8.2		ug/Kg-dry	243860	1	06/08/2017 19:52	MD
Acetone	BRL	82		ug/Kg-dry	243860	1	06/08/2017 19:52	MD
Benzene	BRL	4.1		ug/Kg-dry	243860	1	06/08/2017 19:52	MD
Bromodichloromethane	BRL	4.1		ug/Kg-dry	243860	1	06/08/2017 19:52	MD
Bromoform	BRL	4.1		ug/Kg-dry	243860	1	06/08/2017 19:52	MD
Bromomethane	BRL	4.1		ug/Kg-dry	243860	1	06/08/2017 19:52	MD
Carbon disulfide	BRL	8.2		ug/Kg-dry	243860	1	06/08/2017 19:52	MD
Carbon tetrachloride	BRL	4.1		ug/Kg-dry	243860	1	06/08/2017 19:52	MD
Chlorobenzene	BRL	4.1		ug/Kg-dry	243860	1	06/08/2017 19:52	MD
Chloroethane	BRL	8.2		ug/Kg-dry	243860	1	06/08/2017 19:52	MD
Chloroform	BRL	4.1		ug/Kg-dry	243860	1	06/08/2017 19:52	MD
Chloromethane	BRL	8.2		ug/Kg-dry	243860	1	06/08/2017 19:52	MD
cis-1,2-Dichloroethene	BRL	4.1		ug/Kg-dry	243860	1	06/08/2017 19:52	MD
cis-1,3-Dichloropropene	BRL	4.1		ug/Kg-dry	243860	1	06/08/2017 19:52	MD
Cyclohexane	BRL	4.1		ug/Kg-dry	243860	1	06/08/2017 19:52	MD
Dibromochloromethane	BRL	4.1		ug/Kg-dry	243860	1	06/08/2017 19:52	MD
Dichlorodifluoromethane	BRL	8.2		ug/Kg-dry	243860	1	06/08/2017 19:52	MD
Ethylbenzene	BRL	4.1		ug/Kg-dry	243860	1	06/08/2017 19:52	MD
Freon-113	BRL	8.2		ug/Kg-dry	243860	1	06/08/2017 19:52	MD
Isopropylbenzene	BRL	4.1		ug/Kg-dry	243860	1	06/08/2017 19:52	MD
m,p-Xylene	BRL	4.1		ug/Kg-dry	243860	1	06/08/2017 19:52	MD
Methyl acetate	BRL	4.1		ug/Kg-dry	243860	1	06/08/2017 19:52	MD
Methyl tert-butyl ether	BRL	4.1		ug/Kg-dry	243860	1	06/08/2017 19:52	MD
Methylcyclohexane	BRL	4.1		ug/Kg-dry	243860	1	06/08/2017 19:52	MD
Methylene chloride	BRL	16		ug/Kg-dry	243860	1	06/08/2017 19:52	MD
o-Xylene	BRL	4.1		ug/Kg-dry	243860	1	06/08/2017 19:52	MD

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:** 12-Jun-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17153-SB-22-4
Project Name:	Grantville Mill	**Collection Date:**	6/2/2017 11:18:00 AM
Lab ID:	1706259-020	**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	243860	1	06/08/2017 19:52	MD
Tetrachloroethene	BRL	4.1		ug/Kg-dry	243860	1	06/08/2017 19:52	MD
Toluene	BRL	4.1		ug/Kg-dry	243860	1	06/08/2017 19:52	MD
trans-1,2-Dichloroethene	BRL	4.1		ug/Kg-dry	243860	1	06/08/2017 19:52	MD
trans-1,3-Dichloropropene	BRL	4.1		ug/Kg-dry	243860	1	06/08/2017 19:52	MD
Trichloroethene	BRL	4.1		ug/Kg-dry	243860	1	06/08/2017 19:52	MD
Trichlorofluoromethane	BRL	4.1		ug/Kg-dry	243860	1	06/08/2017 19:52	MD
Vinyl chloride	BRL	8.2		ug/Kg-dry	243860	1	06/08/2017 19:52	MD
Surr: 4-Bromofluorobenzene	91.5	63-125		%REC	243860	1	06/08/2017 19:52	MD
Surr: Dibromofluoromethane	98.9	69.9-123		%REC	243860	1	06/08/2017 19:52	MD
Surr: Toluene-d8	105	70-122		%REC	243860	1	06/08/2017 19:52	MD
PERCENT MOISTURE D2216								
Percent Moisture	22.9	0		wt%	R344800	1	06/06/2017 11:00	JC

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:** 12-Jun-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17153-DUP
Project Name:	Grantville Mill	**Collection Date:**	6/2/2017 12:00:00 PM
Lab ID:	1706259-021	**Matrix:**	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5035)**				
1,1,1-Trichloroethane	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 20:15	MD
1,1,2,2-Tetrachloroethane	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 20:15	MD
1,1,2-Trichloroethane	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 20:15	MD
1,1-Dichloroethane	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 20:15	MD
1,1-Dichloroethene	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 20:15	MD
1,2,4-Trichlorobenzene	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 20:15	MD
1,2-Dibromo-3-chloropropane	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 20:15	MD
1,2-Dibromoethane	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 20:15	MD
1,2-Dichlorobenzene	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 20:15	MD
1,2-Dichloroethane	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 20:15	MD
1,2-Dichloropropane	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 20:15	MD
1,3-Dichlorobenzene	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 20:15	MD
1,4-Dichlorobenzene	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 20:15	MD
2-Butanone	BRL	40		ug/Kg-dry	243860	1	06/08/2017 20:15	MD
2-Hexanone	BRL	8.1		ug/Kg-dry	243860	1	06/08/2017 20:15	MD
4-Methyl-2-pentanone	BRL	8.1		ug/Kg-dry	243860	1	06/08/2017 20:15	MD
Acetone	BRL	81		ug/Kg-dry	243860	1	06/08/2017 20:15	MD
Benzene	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 20:15	MD
Bromodichloromethane	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 20:15	MD
Bromoform	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 20:15	MD
Bromomethane	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 20:15	MD
Carbon disulfide	BRL	8.1		ug/Kg-dry	243860	1	06/08/2017 20:15	MD
Carbon tetrachloride	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 20:15	MD
Chlorobenzene	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 20:15	MD
Chloroethane	BRL	8.1		ug/Kg-dry	243860	1	06/08/2017 20:15	MD
Chloroform	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 20:15	MD
Chloromethane	BRL	8.1		ug/Kg-dry	243860	1	06/08/2017 20:15	MD
cis-1,2-Dichloroethene	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 20:15	MD
cis-1,3-Dichloropropene	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 20:15	MD
Cyclohexane	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 20:15	MD
Dibromochloromethane	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 20:15	MD
Dichlorodifluoromethane	BRL	8.1		ug/Kg-dry	243860	1	06/08/2017 20:15	MD
Ethylbenzene	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 20:15	MD
Freon-113	BRL	8.1		ug/Kg-dry	243860	1	06/08/2017 20:15	MD
Isopropylbenzene	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 20:15	MD
m,p-Xylene	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 20:15	MD
Methyl acetate	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 20:15	MD
Methyl tert-butyl ether	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 20:15	MD
Methylcyclohexane	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 20:15	MD
Methylene chloride	BRL	16		ug/Kg-dry	243860	1	06/08/2017 20:15	MD
o-Xylene	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 20:15	MD

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:** 12-Jun-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17153-DUP
Project Name:	Grantville Mill	**Collection Date:**	6/2/2017 12:00:00 PM
Lab ID:	1706259-021	**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	243860	1	06/08/2017 20:15	MD
Tetrachloroethene	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 20:15	MD
Toluene	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 20:15	MD
trans-1,2-Dichloroethene	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 20:15	MD
trans-1,3-Dichloropropene	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 20:15	MD
Trichloroethene	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 20:15	MD
Trichlorofluoromethane	BRL	4.0		ug/Kg-dry	243860	1	06/08/2017 20:15	MD
Vinyl chloride	BRL	8.1		ug/Kg-dry	243860	1	06/08/2017 20:15	MD
Surr: 4-Bromofluorobenzene	92.7	63-125		%REC	243860	1	06/08/2017 20:15	MD
Surr: Dibromofluoromethane	102	69.9-123		%REC	243860	1	06/08/2017 20:15	MD
Surr: Toluene-d8	100	70-122		%REC	243860	1	06/08/2017 20:15	MD
PERCENT MOISTURE D2216								
Percent Moisture	22.0	0		wt%	R344800	1	06/06/2017 11:00	JC

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:** 12-Jun-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	TRIP BLANK
Project Name:	Grantville Mill	**Collection Date:**	6/2/2017 3:00:00 PM
Lab ID:	1706259-022	**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	243736	1	06/07/2017 15:50	LJ
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	243736	1	06/07/2017 15:50	LJ
1,1,2-Trichloroethane	BRL	5.0		ug/L	243736	1	06/07/2017 15:50	LJ
1,1-Dichloroethane	BRL	5.0		ug/L	243736	1	06/07/2017 15:50	LJ
1,1-Dichloroethene	BRL	5.0		ug/L	243736	1	06/07/2017 15:50	LJ
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	243736	1	06/07/2017 15:50	LJ
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	243736	1	06/07/2017 15:50	LJ
1,2-Dibromoethane	BRL	5.0		ug/L	243736	1	06/07/2017 15:50	LJ
1,2-Dichlorobenzene	BRL	5.0		ug/L	243736	1	06/07/2017 15:50	LJ
1,2-Dichloroethane	BRL	5.0		ug/L	243736	1	06/07/2017 15:50	LJ
1,2-Dichloropropane	BRL	5.0		ug/L	243736	1	06/07/2017 15:50	LJ
1,3-Dichlorobenzene	BRL	5.0		ug/L	243736	1	06/07/2017 15:50	LJ
1,4-Dichlorobenzene	BRL	5.0		ug/L	243736	1	06/07/2017 15:50	LJ
2-Butanone	BRL	50		ug/L	243736	1	06/07/2017 15:50	LJ
2-Hexanone	BRL	10		ug/L	243736	1	06/07/2017 15:50	LJ
4-Methyl-2-pentanone	BRL	10		ug/L	243736	1	06/07/2017 15:50	LJ
Acetone	BRL	50		ug/L	243736	1	06/07/2017 15:50	LJ
Benzene	BRL	5.0		ug/L	243736	1	06/07/2017 15:50	LJ
Bromodichloromethane	BRL	5.0		ug/L	243736	1	06/07/2017 15:50	LJ
Bromoform	BRL	5.0		ug/L	243736	1	06/07/2017 15:50	LJ
Bromomethane	BRL	5.0		ug/L	243736	1	06/07/2017 15:50	LJ
Carbon disulfide	BRL	5.0		ug/L	243736	1	06/07/2017 15:50	LJ
Carbon tetrachloride	BRL	5.0		ug/L	243736	1	06/07/2017 15:50	LJ
Chlorobenzene	BRL	5.0		ug/L	243736	1	06/07/2017 15:50	LJ
Chloroethane	BRL	10		ug/L	243736	1	06/07/2017 15:50	LJ
Chloroform	BRL	5.0		ug/L	243736	1	06/07/2017 15:50	LJ
Chloromethane	BRL	10		ug/L	243736	1	06/07/2017 15:50	LJ
cis-1,2-Dichloroethene	BRL	5.0		ug/L	243736	1	06/07/2017 15:50	LJ
cis-1,3-Dichloropropene	BRL	5.0		ug/L	243736	1	06/07/2017 15:50	LJ
Cyclohexane	BRL	5.0		ug/L	243736	1	06/07/2017 15:50	LJ
Dibromochloromethane	BRL	5.0		ug/L	243736	1	06/07/2017 15:50	LJ
Dichlorodifluoromethane	BRL	10		ug/L	243736	1	06/07/2017 15:50	LJ
Ethylbenzene	BRL	5.0		ug/L	243736	1	06/07/2017 15:50	LJ
Freon-113	BRL	10		ug/L	243736	1	06/07/2017 15:50	LJ
Isopropylbenzene	BRL	5.0		ug/L	243736	1	06/07/2017 15:50	LJ
m,p-Xylene	BRL	5.0		ug/L	243736	1	06/07/2017 15:50	LJ
Methyl acetate	BRL	5.0		ug/L	243736	1	06/07/2017 15:50	LJ
Methyl tert-butyl ether	BRL	5.0		ug/L	243736	1	06/07/2017 15:50	LJ
Methylcyclohexane	BRL	5.0		ug/L	243736	1	06/07/2017 15:50	LJ
Methylene chloride	BRL	5.0		ug/L	243736	1	06/07/2017 15:50	LJ
o-Xylene	BRL	5.0		ug/L	243736	1	06/07/2017 15:50	LJ

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:** 12-Jun-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	TRIP BLANK
Project Name:	Grantville Mill	**Collection Date:**	6/2/2017 3:00:00 PM
Lab ID:	1706259-022	**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	243736	1	06/07/2017 15:50	LJ
Tetrachloroethene	BRL	5.0		ug/L	243736	1	06/07/2017 15:50	LJ
Toluene	BRL	5.0		ug/L	243736	1	06/07/2017 15:50	LJ
trans-1,2-Dichloroethene	BRL	5.0		ug/L	243736	1	06/07/2017 15:50	LJ
trans-1,3-Dichloropropene	BRL	5.0		ug/L	243736	1	06/07/2017 15:50	LJ
Trichloroethene	BRL	5.0		ug/L	243736	1	06/07/2017 15:50	LJ
Trichlorofluoromethane	BRL	5.0		ug/L	243736	1	06/07/2017 15:50	LJ
Vinyl chloride	BRL	2.0		ug/L	243736	1	06/07/2017 15:50	LJ
Surr: 4-Bromofluorobenzene	89	66.1-129		%REC	243736	1	06/07/2017 15:50	LJ
Surr: Dibromofluoromethane	96.1	83.6-123		%REC	243736	1	06/07/2017 15:50	LJ
Surr: Toluene-d8	99.6	81.8-118		%REC	243736	1	06/07/2017 15:50	LJ

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: 12-Jun-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	TRIP BLANK #2
Project Name:	Grantville Mill	**Collection Date:**	6/2/2017 3:00:00 PM
Lab ID:	1706259-023	**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	243736	1	06/07/2017 16:16	LJ
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	243736	1	06/07/2017 16:16	LJ
1,1,2-Trichloroethane	BRL	5.0		ug/L	243736	1	06/07/2017 16:16	LJ
1,1-Dichloroethane	BRL	5.0		ug/L	243736	1	06/07/2017 16:16	LJ
1,1-Dichloroethene	BRL	5.0		ug/L	243736	1	06/07/2017 16:16	LJ
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	243736	1	06/07/2017 16:16	LJ
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	243736	1	06/07/2017 16:16	LJ
1,2-Dibromoethane	BRL	5.0		ug/L	243736	1	06/07/2017 16:16	LJ
1,2-Dichlorobenzene	BRL	5.0		ug/L	243736	1	06/07/2017 16:16	LJ
1,2-Dichloroethane	BRL	5.0		ug/L	243736	1	06/07/2017 16:16	LJ
1,2-Dichloropropane	BRL	5.0		ug/L	243736	1	06/07/2017 16:16	LJ
1,3-Dichlorobenzene	BRL	5.0		ug/L	243736	1	06/07/2017 16:16	LJ
1,4-Dichlorobenzene	BRL	5.0		ug/L	243736	1	06/07/2017 16:16	LJ
2-Butanone	BRL	50		ug/L	243736	1	06/07/2017 16:16	LJ
2-Hexanone	BRL	10		ug/L	243736	1	06/07/2017 16:16	LJ
4-Methyl-2-pentanone	BRL	10		ug/L	243736	1	06/07/2017 16:16	LJ
Acetone	BRL	50		ug/L	243736	1	06/07/2017 16:16	LJ
Benzene	BRL	5.0		ug/L	243736	1	06/07/2017 16:16	LJ
Bromodichloromethane	BRL	5.0		ug/L	243736	1	06/07/2017 16:16	LJ
Bromoform	BRL	5.0		ug/L	243736	1	06/07/2017 16:16	LJ
Bromomethane	BRL	5.0		ug/L	243736	1	06/07/2017 16:16	LJ
Carbon disulfide	BRL	5.0		ug/L	243736	1	06/07/2017 16:16	LJ
Carbon tetrachloride	BRL	5.0		ug/L	243736	1	06/07/2017 16:16	LJ
Chlorobenzene	BRL	5.0		ug/L	243736	1	06/07/2017 16:16	LJ
Chloroethane	BRL	10		ug/L	243736	1	06/07/2017 16:16	LJ
Chloroform	BRL	5.0		ug/L	243736	1	06/07/2017 16:16	LJ
Chloromethane	BRL	10		ug/L	243736	1	06/07/2017 16:16	LJ
cis-1,2-Dichloroethene	BRL	5.0		ug/L	243736	1	06/07/2017 16:16	LJ
cis-1,3-Dichloropropene	BRL	5.0		ug/L	243736	1	06/07/2017 16:16	LJ
Cyclohexane	BRL	5.0		ug/L	243736	1	06/07/2017 16:16	LJ
Dibromochloromethane	BRL	5.0		ug/L	243736	1	06/07/2017 16:16	LJ
Dichlorodifluoromethane	BRL	10		ug/L	243736	1	06/07/2017 16:16	LJ
Ethylbenzene	BRL	5.0		ug/L	243736	1	06/07/2017 16:16	LJ
Freon-113	BRL	10		ug/L	243736	1	06/07/2017 16:16	LJ
Isopropylbenzene	BRL	5.0		ug/L	243736	1	06/07/2017 16:16	LJ
m,p-Xylene	BRL	5.0		ug/L	243736	1	06/07/2017 16:16	LJ
Methyl acetate	BRL	5.0		ug/L	243736	1	06/07/2017 16:16	LJ
Methyl tert-butyl ether	BRL	5.0		ug/L	243736	1	06/07/2017 16:16	LJ
Methylcyclohexane	BRL	5.0		ug/L	243736	1	06/07/2017 16:16	LJ
Methylene chloride	BRL	5.0		ug/L	243736	1	06/07/2017 16:16	LJ
o-Xylene	BRL	5.0		ug/L	243736	1	06/07/2017 16:16	LJ

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:** 12-Jun-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	TRIP BLANK #2
Project Name:	Grantville Mill	**Collection Date:**	6/2/2017 3:00:00 PM
Lab ID:	1706259-023	**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	243736	1	06/07/2017 16:16	LJ
Tetrachloroethene	BRL	5.0		ug/L	243736	1	06/07/2017 16:16	LJ
Toluene	BRL	5.0		ug/L	243736	1	06/07/2017 16:16	LJ
trans-1,2-Dichloroethene	BRL	5.0		ug/L	243736	1	06/07/2017 16:16	LJ
trans-1,3-Dichloropropene	BRL	5.0		ug/L	243736	1	06/07/2017 16:16	LJ
Trichloroethene	BRL	5.0		ug/L	243736	1	06/07/2017 16:16	LJ
Trichlorofluoromethane	BRL	5.0		ug/L	243736	1	06/07/2017 16:16	LJ
Vinyl chloride	BRL	2.0		ug/L	243736	1	06/07/2017 16:16	LJ
Surr: 4-Bromofluorobenzene	89.6	66.1-129		%REC	243736	1	06/07/2017 16:16	LJ
Surr: Dibromofluoromethane	94.2	83.6-123		%REC	243736	1	06/07/2017 16:16	LJ
Surr: Toluene-d8	101	81.8-118		%REC	243736	1	06/07/2017 16:16	LJ

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

Clear Save as

ANALYTICAL ENVIRONMENTAL SERVICES, INC. AES

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: **Environmental Planning Specialists, Inc.** AES Work Order Number: **1706259**

2. Carrier: FedEx ☐ UPS ☐ USPS ☐ Client ■ Courier ☐ Other _____

		Yes	No	N/A	Details	Comments
3.	Shipping container/cooler received in good condition?	●	○	○	damaged ☐ leaking ☐ other ☐	
4.	Custody seals present on shipping container?	○	●	○		
5.	Custody seals intact on shipping container?	○	○	●		
6.	Temperature blanks present?	●	○	○		
7.	Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	●	○	○	Cooling initiated for recently collected samples / ice present ☐	
8.	Chain of Custody (COC) present?	●	○	○		
9.	Chain of Custody signed, dated, and timed when relinquished and received?	●	○	○		
10.	Sampler name and/or signature on COC?	●	○	○		
11.	Were all samples received within holding time?	●	○	○		
12.	TAT marked on the COC?	●	○	○	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. ☐	

13. Cooler 1 Temperature 1.3 °C Cooler 2 Temperature 1.5 °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C

14. Cooler 5 Temperature _____ °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 6-2-17

		Yes	No	N/A	Details	Comments
16.	Were sample containers intact upon receipt?	●	○	○		
17.	Custody seals present on sample containers?	○	●	○		
18.	Custody seals intact on sample containers?	○	○	●		
19.	Do sample container labels match the COC?	●	○	○	incomplete info ☐ illegible ☐ no label ☐ other ☐	
20.	Are analyses requested indicated on the COC?	●	○	○		
21.	Were all of the samples listed on the COC received?	●	○	○	samples received but not listed on COC ☐ samples listed on COC not received ☐	
22.	Was the sample collection date/time noted?	●	○	○		
23.	Did we receive sufficient sample volume for indicated analyses?	●	○	○		
24.	Were samples received in appropriate containers?	●	○	○		
25.	Were VOA samples received without headspace (< 1/4" bubble)?	●	○	○		
26.	Were trip blanks submitted?	●	○	○	listed on COC ■ not listed on COC ☐	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). MJ 6-5-17

		Yes	No	N/A	Details	Comments
28.	Have containers needing chemical preservation been checked?	○	○	●		
29.	Containers meet preservation guidelines?	○	○	●		
30.	Was pH adjusted?	○	○	●		

I certify that I have completed sections 28-30 (dated initials). MJ 6-5-17

Locked

Client: Environmental Planning Specialists, Inc.
Project Name: Grantville Mill
Workorder: 1706259

ANALYTICAL QC SUMMARY REPORT

BatchID: 243665

Sample ID: **MB-243665** Client ID: Units: **mg/Kg** Prep Date: **06/06/2017** Run No: **344881**
SampleType: **MBLK** TestCode: **METALS, TOTAL SW6010D** BatchID: **243665** Analysis Date: **06/07/2017** Seq No: **7567827**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	BRL	5.00									
Chromium	BRL	2.50									
Lead	BRL	5.00									

Sample ID: **LCS-243665** Client ID: Units: **mg/Kg** Prep Date: **06/06/2017** Run No: **344881**
SampleType: **LCS** TestCode: **METALS, TOTAL SW6010D** BatchID: **243665** Analysis Date: **06/07/2017** Seq No: **7567828**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	47.13	5.00	50.00		94.3	80	120				
Chromium	51.24	2.50	50.00	0.07550	102	80	120				
Lead	49.80	5.00	50.00	0.1320	99.3	80	120				

Sample ID: **1706259-001CMS** Client ID: **17153-S-3-0.5** Units: **mg/Kg-dry** Prep Date: **06/06/2017** Run No: **344881**
SampleType: **MS** TestCode: **METALS, TOTAL SW6010D** BatchID: **243665** Analysis Date: **06/07/2017** Seq No: **7567832**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	90.02	6.30	63.02	28.49	97.6	75	125				
Chromium	79.74	3.15	63.02	17.72	98.4	75	125				
Lead	128.5	6.30	63.02	79.74	77.4	75	125				

Sample ID: **1706259-001CMSD** Client ID: **17153-S-3-0.5** Units: **mg/Kg-dry** Prep Date: **06/06/2017** Run No: **344881**
SampleType: **MSD** TestCode: **METALS, TOTAL SW6010D** BatchID: **243665** Analysis Date: **06/07/2017** Seq No: **7567833**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	86.33	6.31	63.07	28.49	91.7	75	125	90.02	4.19	20	
Chromium	77.23	3.15	63.07	17.72	94.4	75	125	79.74	3.19	20	
Lead	110.3	6.31	63.07	79.74	48.4	75	125	128.5	15.3	20	S

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: Grantville Mill
Workorder: 1706259

ANALYTICAL QC SUMMARY REPORT

BatchID: 243736

Sample ID: **MB-243736** Client ID: Units: **ug/L** Prep Date: **06/07/2017** Run No: **344822**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **243736** Analysis Date: **06/07/2017** Seq No: **7567183**

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: Grantville Mill
Workorder: 1706259

ANALYTICAL QC SUMMARY REPORT

BatchID: 243736

Sample ID: **MB-243736** Client ID: Units: **ug/L** Prep Date: **06/07/2017** Run No: **344822**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **243736** Analysis Date: **06/07/2017** Seq No: **7567183**

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	43.47	0	50.00		86.9	66.1	129				
Surr: Dibromofluoromethane	49.74	0	50.00		99.5	83.6	123				
Surr: Toluene-d8	50.79	0	50.00		102	81.8	118				

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: Grantville Mill
Workorder: 1706259

ANALYTICAL QC SUMMARY REPORT

BatchID: 243736

Sample ID: **LCS-243736** Client ID: Units: **ug/L** Prep Date: **06/07/2017** Run No: **344822**
SampleType: **LCS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **243736** Analysis Date: **06/07/2017** Seq No: **7567182**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	67.66	5.0	50.00		135	68	139				
Benzene	54.17	5.0	50.00		108	74	125				
Chlorobenzene	50.30	5.0	50.00		101	75.7	123				
Toluene	54.65	5.0	50.00		109	75.9	126				
Trichloroethene	47.37	5.0	50.00		94.7	70.6	129				
Surr: 4-Bromofluorobenzene	43.93	0	50.00		87.9	66.1	129				
Surr: Dibromofluoromethane	46.54	0	50.00		93.1	83.6	123				
Surr: Toluene-d8	49.21	0	50.00		98.4	81.8	118				

Sample ID: **1706386-002AMS** Client ID: Units: **ug/L** Prep Date: **06/07/2017** Run No: **344822**
SampleType: **MS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **243736** Analysis Date: **06/07/2017** Seq No: **7569017**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	600.9	50	500.0		120	64.3	149				
Benzene	545.5	50	500.0		109	71.6	132				
Chlorobenzene	496.9	50	500.0		99.4	73.1	126				
Toluene	544.3	50	500.0		109	72.5	135				
Trichloroethene	456.6	50	500.0		91.3	70.2	132				
Surr: 4-Bromofluorobenzene	438.9	0	500.0		87.8	66.1	129				
Surr: Dibromofluoromethane	463.1	0	500.0		92.6	83.6	123				
Surr: Toluene-d8	498.3	0	500.0		99.7	81.8	118				

Sample ID: **1706386-002AMSD** Client ID: Units: **ug/L** Prep Date: **06/07/2017** Run No: **344822**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **243736** Analysis Date: **06/07/2017** Seq No: **7569021**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	473.9	50	500.0		94.8	64.3	149	600.9	23.6	30.8	
Benzene	510.5	50	500.0		102	71.6	132	545.5	6.63	20.7	

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: Grantville Mill
Workorder: 1706259

ANALYTICAL QC SUMMARY REPORT

BatchID: 243736

Sample ID: **1706386-002AMSD** Client ID:
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B**
Units: **ug/L** Prep Date: **06/07/2017** Run No: **344822**
BatchID: **243736** Analysis Date: **06/07/2017** Seq No: **7569021**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	487.3	50	500.0		97.5	73.1	126	496.9	1.95	26.6	
Toluene	517.4	50	500.0		103	72.5	135	544.3	5.07	23.2	
Trichloroethene	433.6	50	500.0		86.7	70.2	132	456.6	5.17	27.7	
Surr: 4-Bromofluorobenzene	458.4	0	500.0		91.7	66.1	129	438.9	0	0	
Surr: Dibromofluoromethane	459.6	0	500.0		91.9	83.6	123	463.1	0	0	
Surr: Toluene-d8	491.3	0	500.0		98.3	81.8	118	498.3	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: Grantville Mill
Workorder: 1706259

ANALYTICAL QC SUMMARY REPORT

BatchID: 243834

Sample ID: **MB-243834** Client ID: Units: **ug/Kg** Prep Date: **06/08/2017** Run No: **344935**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **243834** Analysis Date: **06/08/2017** Seq No: **7569442**

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: Grantville Mill
Workorder: 1706259

ANALYTICAL QC SUMMARY REPORT

BatchID: 243834

Sample ID: **MB-243834** Client ID: Units: **ug/Kg** Prep Date: **06/08/2017** Run No: **344935**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **243834** Analysis Date: **06/08/2017** Seq No: **7569442**

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	48.00	0	50.00		96.0	63	125				
Surr: Dibromofluoromethane	48.79	0	50.00		97.6	69.9	123				
Surr: Toluene-d8	49.26	0	50.00		98.5	70	122				

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: Grantville Mill
Workorder: 1706259

ANALYTICAL QC SUMMARY REPORT

BatchID: 243834

Sample ID: **LCS-243834** Client ID: Units: **ug/Kg** Prep Date: **06/08/2017** Run No: **344935**
SampleType: **LCS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **243834** Analysis Date: **06/08/2017** Seq No: **7569443**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	47.65	5.0	50.00		95.3	62	142				
Benzene	46.84	5.0	50.00		93.7	70.2	131				
Chlorobenzene	46.91	5.0	50.00		93.8	72.9	129				
Toluene	47.42	5.0	50.00		94.8	70.6	131				
Trichloroethene	46.44	5.0	50.00		92.9	70.1	136				
Surr: 4-Bromofluorobenzene	49.47	0	50.00		98.9	63	125				
Surr: Dibromofluoromethane	48.34	0	50.00		96.7	69.9	123				
Surr: Toluene-d8	49.16	0	50.00		98.3	70	122				

Sample ID: **1706260-001AMS** Client ID: Units: **ug/Kg-dry** Prep Date: **06/08/2017** Run No: **344935**
SampleType: **MS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **243834** Analysis Date: **06/08/2017** Seq No: **7571555**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	44.45	5.4	53.78		82.6	55	143				
Benzene	46.02	5.4	53.78		85.6	68.5	128				
Chlorobenzene	46.25	5.4	53.78		86.0	67.7	126				
Toluene	44.96	5.4	53.78		83.6	66.9	128				
Trichloroethene	43.75	5.4	53.78		81.3	60.7	133				
Surr: 4-Bromofluorobenzene	52.49	0	53.78		97.6	63	125				
Surr: Dibromofluoromethane	52.02	0	53.78		96.7	69.9	123				
Surr: Toluene-d8	52.00	0	53.78		96.7	70	122				

Sample ID: **1706260-001AMSD** Client ID: Units: **ug/Kg-dry** Prep Date: **06/08/2017** Run No: **344935**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **243834** Analysis Date: **06/08/2017** Seq No: **7571556**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	49.35	5.4	53.78		91.8	55	143	44.45	10.5	19.3	
Benzene	48.99	5.4	53.78		91.1	68.5	128	46.02	6.25	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: Grantville Mill
Workorder: 1706259

ANALYTICAL QC SUMMARY REPORT

BatchID: 243834

Sample ID: **1706260-001AMSD** Client ID:
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B**
Units: **ug/Kg-dry** Prep Date: **06/08/2017** Run No: **344935**
BatchID: **243834** Analysis Date: **06/08/2017** Seq No: **7571556**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	49.06	5.4	53.78		91.2	67.7	126	46.25	5.89	20	
Toluene	48.58	5.4	53.78		90.3	66.9	128	44.96	7.73	20	
Trichloroethene	46.47	5.4	53.78		86.4	60.7	133	43.75	6.03	20	
Surr: 4-Bromofluorobenzene	53.86	0	53.78		100	63	125	52.49	0	0	
Surr: Dibromofluoromethane	52.35	0	53.78		97.3	69.9	123	52.02	0	0	
Surr: Toluene-d8	53.16	0	53.78		98.8	70	122	52.00	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: Grantville Mill
Workorder: 1706259

ANALYTICAL QC SUMMARY REPORT

BatchID: 243860

Sample ID: **MB-243860** Client ID: Units: **ug/Kg** Prep Date: **06/08/2017** Run No: **344979**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **243860** Analysis Date: **06/08/2017** Seq No: **7571649**

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: Grantville Mill
Workorder: 1706259

ANALYTICAL QC SUMMARY REPORT

BatchID: 243860

Sample ID: **MB-243860** Client ID: Units: **ug/Kg** Prep Date: **06/08/2017** Run No: **344979**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **243860** Analysis Date: **06/08/2017** Seq No: **7571649**

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	47.31	0	50.00		94.6	63	125				
Surr: Dibromofluoromethane	49.49	0	50.00		99.0	69.9	123				
Surr: Toluene-d8	51.88	0	50.00		104	70	122				

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: Grantville Mill
Workorder: 1706259

ANALYTICAL QC SUMMARY REPORT

BatchID: 243860

Sample ID: **LCS-243860** Client ID: Units: **ug/Kg** Prep Date: **06/08/2017** Run No: **344979**
SampleType: **LCS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **243860** Analysis Date: **06/08/2017** Seq No: **7571650**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	55.43	5.0	50.00		111	62	142				
Benzene	52.40	5.0	50.00		105	70.2	131				
Chlorobenzene	53.08	5.0	50.00		106	72.9	129				
Toluene	51.58	5.0	50.00		103	70.6	131				
Trichloroethene	54.25	5.0	50.00		108	70.1	136				
Surr: 4-Bromofluorobenzene	49.96	0	50.00		99.9	63	125				
Surr: Dibromofluoromethane	50.59	0	50.00		101	69.9	123				
Surr: Toluene-d8	50.56	0	50.00		101	70	122				

Sample ID: **1706259-019AMS** Client ID: **17153-SB-22-2** Units: **ug/Kg-dry** Prep Date: **06/08/2017** Run No: **344979**
SampleType: **MS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **243860** Analysis Date: **06/08/2017** Seq No: **7571717**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	67.51	6.3	63.11		107	55	143				
Benzene	63.60	6.3	63.11		101	68.5	128				
Chlorobenzene	64.50	6.3	63.11		102	67.7	126				
Toluene	63.25	6.3	63.11		100	66.9	128				
Trichloroethene	64.62	6.3	63.11		102	60.7	133				
Surr: 4-Bromofluorobenzene	59.25	0	63.11		93.9	63	125				
Surr: Dibromofluoromethane	64.19	0	63.11		102	69.9	123				
Surr: Toluene-d8	63.98	0	63.11		101	70	122				

Sample ID: **1706259-019AMSD** Client ID: **17153-SB-22-2** Units: **ug/Kg-dry** Prep Date: **06/08/2017** Run No: **344979**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **243860** Analysis Date: **06/08/2017** Seq No: **7571718**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	72.03	6.3	63.11		114	55	143	67.51	6.48	19.3	
Benzene	66.48	6.3	63.11		105	68.5	128	63.60	4.42	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: Grantville Mill
Workorder: 1706259

ANALYTICAL QC SUMMARY REPORT

BatchID: 243860

Sample ID: **1706259-019AMSD** Client ID: **17153-SB-22-2** Units: **ug/Kg-dry** Prep Date: **06/08/2017** Run No: **344979**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **243860** Analysis Date: **06/08/2017** Seq No: **7571718**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	68.31	6.3	63.11		108	67.7	126	64.50	5.74	20	
Toluene	66.96	6.3	63.11		106	66.9	128	63.25	5.70	20	
Trichloroethene	68.86	6.3	63.11		109	60.7	133	64.62	6.35	20	
Surr: 4-Bromofluorobenzene	62.91	0	63.11		99.7	63	125	59.25	0	0	
Surr: Dibromofluoromethane	62.19	0	63.11		98.5	69.9	123	64.19	0	0	
Surr: Toluene-d8	63.27	0	63.11		100	70	122	63.98	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		

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

July 24, 2017

Aaron Williams
Environmental Planning Specialists, Inc.

1050 Crown Pointe Parkway
Atlanta GA 30338

RE: Grantville Mill

Dear Aaron Williams: Order No: 1707H74

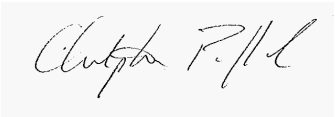
Analytical Environmental Services, Inc. received 8 samples on 7/21/2017 11:10:00 AM for the analyses presented in following report.

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:
-NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, 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 and E. coli, effective 04/25/17-04/24/20.
-NELAC/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 09/01/17.

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

3080 Presidential Drive • Atlanta, Georgia 30340 • Tel: 770.457.8177 • Fax: 770.457.8188 • Toll Free: 800.972.4889
www.aesatlanta.com

ANALYTICAL ENVIRONMENTAL SERVICES, INC.
3080 Presidential Drive Atlanta, GA 30340-3704
Phone: (770) 457-8177 / Toll-Free: (800) 972-4889 / Fax: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1707H74

Date: 7/21/2017 Page 1 of 2

COMPANY: EPS Inc.

ADDRESS: 1050 Crown Pointe Pkwy, Ste 550 Atlanta, GA 30338

PHONE: 404 315 9113

EMAIL:

SAMPLED BY: Alex Tuttle

SIGNATURE: Alex Tuttle

#	SAMPLE ID	SAMPLED: DATE	SAMPLED: TIME	GRAB	COMPOSITE	MATRIX (see codes)	Arsenic	REMARKS	Number of Containers
							PRESERVATION (see codes) I		
1	17201-S-29-4	7/20/17	1310	X		So	X		1
2	17201-S-29-8		1312	X			X	HOLD	1
3	17201-S-30-0.5		1322	X			X	HOLD	1
4	17201-S-30-2		1324	X			X	HOLD	1
5	17201-S-30-4		1328	X			X	HOLD	1
6	17201-S-30-8		1330	X			X	HOLD	1
7	17201-S-14-4		1339	X			X		1
8	17201-S-14-7		1400	X			X	HOLD	1
9	17201-S-8-4		1347	X			X		1
10	17201-S-8-6		1350	X			X	HOLD	1
11	17201-S-15-4		1427	X			X		1
12	17201-S-3-4		1440	X			X		1
13	17201-S-3-8		1442	X			X	HOLD	1
14	17201-S-4-4	7/20/17	1448	X			X		1

Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1. Alex Tuttle	7/21/2017 1040	1.	7/21/17 1040
2.	7/21/2017 1115	2.	7/21/17 1115
3.		3.	

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD

OUT: / / VIA:

IN: / / VIA:

(client) FedEx UPS US mail courier Greyhound

other: _____

PROJECT INFORMATION

PROJECT NAME: Grantville Mill

PROJECT #:

SITE ADDRESS: Grantville, GA

SEND REPORT TO: awilliams@enviroplanning.com

INVOICE TO:

(IF DIFFERENT FROM ABOVE)

QUOTE #: _____ PO#: _____

RECEIPT

Total # of Containers: 14

Turnaround Time (TAT) Request

- ☐ Standard 5 Business Days
- ☐ 2 Business Day Rush
- ■ Next Business Day Rush
- ☐ Same-Day Rush **(auth req.)**
- ☐ Other _____

STATE PROGRAM (if any): _____

E-mail? ☐ Fax? ☐

DATA PACKAGE: I ○ II ○ III ○ IV ○

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 arangements 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

ANALYTICAL ENVIRONMENTAL SERVICES, INC.
3080 Presidential Drive Atlanta, GA 30340-3704
Phone: (770) 457-8177 / Toll-Free: (800) 972-4889 / Fax: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1702H74

Date: 7/21/2017 Page 2 of 2

COMPANY: EPS Inc.

ADDRESS: 1050 Crown Pointe Pkwy, Ste. 550 Atlanta, GA 30338

PHONE: 404 315 9113

EMAIL:

SAMPLED BY: Alex Testoff

SIGNATURE:

#	SAMPLE ID	SAMPLED: DATE	SAMPLED: TIME	GRAB	COMPOSITE	MATRIX (see codes)	ANALYSIS REQUESTED: Arsenic	PRESERVATION (see codes): I	REMARKS	Number of Containers
1	17201-S-17-4	7/20/17	1412	X		So	X	X		1
2	17201-S-17-8	7/20/17	1415	X		So	X	X	HOLD	1
3	17201-DUP	7/20/17	1200	X		So	X	X		1
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										

Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1.	7/21/2017 1040	1.	7/21/2017 1040
2.	7/21/2017 1115	2.	7/24/17
3.		3.	

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD

OUT: / / VIA:

IN: / / VIA:

client FedEx UPS US mail courier Greyhound

other: _____

PROJECT INFORMATION

PROJECT NAME: Grantville Mill

PROJECT #:

SITE ADDRESS: Grantville, GA

SEND REPORT TO: awilliams@envplanning.com

INVOICE TO:
(IF DIFFERENT FROM ABOVE)

QUOTE #: _____ PO#: _____

RECEIPT

Total # of Containers

Turnaround Time (TAT) Request

- ☐ Standard 5 Business Days
- ☐ 2 Business Day Rush
- ☒ Next Business Day Rush
- ☐ Same-Day Rush **(auth req.)**
- ☐ Other _____

STATE PROGRAM (if any): _____

E-mail? ☐ Fax? ☐

DATA PACKAGE: I ○ II ○ III ○ IV ○

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 arangements 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

Analytical Environmental Services, Inc **Date:** 24-Jul-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17201-S-29-4
Project Name:	Grantville Mill	**Collection Date:**	7/20/2017 1:10:00 PM
Lab ID:	1707H74-001	**Matrix:**	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D (SW3050B)								
Arsenic	21.1	5.61		mg/Kg-dry	245763	1	07/24/2017 13:09	IO
PERCENT MOISTURE D2216								
Percent Moisture	16.9	0		wt%	R348170	1	07/24/2017 14:00	JC

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:** 24-Jul-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17201-S-14-4
Project Name:	Grantville Mill	**Collection Date:**	7/20/2017 1:39:00 PM
Lab ID:	1707H74-007	**Matrix:**	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D (SW3050B)								
Arsenic	20.7	4.61		mg/Kg-dry	245763	1	07/24/2017 13:14	IO
PERCENT MOISTURE D2216								
Percent Moisture	12.1	0		wt%	R348170	1	07/24/2017 14:00	JC

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:** 24-Jul-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17201-S-8-4
Project Name:	Grantville Mill	**Collection Date:**	7/20/2017 1:47:00 PM
Lab ID:	1707H74-009	**Matrix:**	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D (SW3050B)								
Arsenic	8.76	4.60		mg/Kg-dry	245763	1	07/24/2017 13:25	IO
PERCENT MOISTURE D2216								
Percent Moisture	17.3	0		wt%	R348170	1	07/24/2017 14:00	JC

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:** 24-Jul-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17201-S-15-4
Project Name:	Grantville Mill	**Collection Date:**	7/20/2017 2:27:00 PM
Lab ID:	1707H74-011	**Matrix:**	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D (SW3050B)								
Arsenic	BRL	4.72		mg/Kg-dry	245763	1	07/24/2017 13:36	IO
PERCENT MOISTURE D2216								
Percent Moisture	12.9	0		wt%	R348170	1	07/24/2017 14:00	JC

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:** 24-Jul-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17201-S-3-4
Project Name:	Grantville Mill	**Collection Date:**	7/20/2017 2:40:00 PM
Lab ID:	1707H74-012	**Matrix:**	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D (SW3050B)								
Arsenic	BRL	5.37		mg/Kg-dry	245763	1	07/24/2017 13:40	IO
PERCENT MOISTURE D2216								
Percent Moisture	17.3	0		wt%	R348170	1	07/24/2017 14:00	JC

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:** 24-Jul-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17201-S-4-4
Project Name:	Grantville Mill	**Collection Date:**	7/20/2017 2:48:00 PM
Lab ID:	1707H74-014	**Matrix:**	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D (SW3050B)								
Arsenic	9.87	5.81		mg/Kg-dry	245763	1	07/24/2017 13:43	IO
PERCENT MOISTURE D2216								
Percent Moisture	27.7	0		wt%	R348170	1	07/24/2017 14:00	JC

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:** 24-Jul-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17201-S-17-4
Project Name:	Grantville Mill	**Collection Date:**	7/20/2017 2:12:00 PM
Lab ID:	1707H74-015	**Matrix:**	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D (SW3050B)								
Arsenic	BRL	4.51		mg/Kg-dry	245763	1	07/24/2017 13:47	IO
PERCENT MOISTURE D2216								
Percent Moisture	11.6	0		wt%	R348170	1	07/24/2017 14:00	JC

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:** 24-Jul-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17201-DUP
Project Name:	Grantville Mill	**Collection Date:**	7/20/2017 12:00:00 PM
Lab ID:	1707H74-017	**Matrix:**	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D (SW3050B)								
Arsenic	32.4	4.84		mg/Kg-dry	245763	1	07/24/2017 13:51	IO
PERCENT MOISTURE D2216								
Percent Moisture	19.1	0		wt%	R348170	1	07/24/2017 14:00	JC

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

Clear Save as

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: **Environmental Planning Specialists, Inc.** AES Work Order Number: **1707H74**

2. Carrier: FedEx ☐ UPS ☐ USPS ☐ Client ■ Courier ☐ Other _____

		Yes	No	N/A	Details	Comments
3.	Shipping container/cooler received in good condition?	●	○	○	damaged ☐ leaking ☐ other ☐	
4.	Custody seals present on shipping container?	○	●	○		
5.	Custody seals intact on shipping container?	○	○	●		
6.	Temperature blanks present?	○	●	○		
7.	Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	●	○	○	Cooling initiated for recently collected samples / ice present ☐	
8.	Chain of Custody (COC) present?	●	○	○		
9.	Chain of Custody signed, dated, and timed when relinquished and received?	●	○	○		
10.	Sampler name and/or signature on COC?	●	○	○		
11.	Were all samples received within holding time?	●	○	○		
12.	TAT marked on the COC?	●	○	○	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. ☐	

13. Cooler 1 Temperature 1.1 °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C

14. Cooler 5 Temperature _____ °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 7/21/17

		Yes	No	N/A	Details	Comments
16.	Were sample containers intact upon receipt?	●	○	○		
17.	Custody seals present on sample containers?	○	●	○		
18.	Custody seals intact on sample containers?	○	○	●		
19.	Do sample container labels match the COC?	●	○	○	incomplete info ☐ illegible ☐ no label ☐ other ☐	
20.	Are analyses requested indicated on the COC?	●	○	○		
21.	Were all of the samples listed on the COC received?	●	○	○	samples received but not listed on COC ☐ samples listed on COC not received ☐	
22.	Was the sample collection date/time noted?	●	○	○		
23.	Did we receive sufficient sample volume for indicated analyses?	●	○	○		
24.	Were samples received in appropriate containers?	●	○	○		
25.	Were VOA samples received without headspace (< 1/4" bubble)?	○	○	●		
26.	Were trip blanks submitted?	○	○	●	listed on COC ☐ not listed on COC ☐	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). BB 7/21/17

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? *	○	○	●		
29.	Containers meet preservation guidelines?	○	○	●		
30.	Was pH adjusted at Sample Receipt?	○	○	●		

* 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). BB 7/21/17

Checklist 6.9.17 Rev 2

Locked

Client: Environmental Planning Specialists, Inc.
Project Name: Grantville Mill
Workorder: 1707H74

ANALYTICAL QC SUMMARY REPORT

BatchID: 245763

Sample ID: **MB-245763**	Client ID:			Units: **mg/Kg**	Prep Date: **07/21/2017**	Run No: **348162**
SampleType: **MBLK**	TestCode: **METALS, TOTAL** **SW6010D**			BatchID: **245763**	Analysis Date: **07/24/2017**	Seq No: **7648213**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	BRL	5.00									

Sample ID: **LCS-245763**	Client ID:			Units: **mg/Kg**	Prep Date: **07/21/2017**	Run No: **348162**
SampleType: **LCS**	TestCode: **METALS, TOTAL** **SW6010D**			BatchID: **245763**	Analysis Date: **07/24/2017**	Seq No: **7648214**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	48.75	5.00	50.00		97.5	80	120				

Sample ID: **1707F80-005AMS**	Client ID:			Units: **mg/Kg-dry**	Prep Date: **07/21/2017**	Run No: **348162**
SampleType: **MS**	TestCode: **METALS, TOTAL** **SW6010D**			BatchID: **245763**	Analysis Date: **07/24/2017**	Seq No: **7648216**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	48.80	4.73	47.33	4.062	94.5	75	125				

Sample ID: **1707F80-005AMSD**	Client ID:			Units: **mg/Kg-dry**	Prep Date: **07/21/2017**	Run No: **348162**
SampleType: **MSD**	TestCode: **METALS, TOTAL** **SW6010D**			BatchID: **245763**	Analysis Date: **07/24/2017**	Seq No: **7648217**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	47.95	4.74	47.38	4.062	92.6	75	125	48.80	1.75	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		

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

July 26, 2017

Aaron Williams
Environmental Planning Specialists, Inc.

1050 Crown Pointe Parkway
Atlanta GA 30338

RE: Grantville Mill

Dear Aaron Williams: Order No: 1707F80

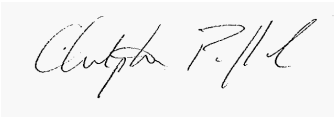
Analytical Environmental Services, Inc. received 23 samples on 7/19/2017 3:30:00 PM
for the analyses presented in following report.

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:
-NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, 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 and E. coli, effective 04/25/17-04/24/20.
-NELAC/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 09/01/17.

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

3080 Presidential Drive • Atlanta, Georgia 30340 • Tel: 770.457.8177 • Fax: 770.457.8188 • Toll Free: 800.972.4889
www.aesatlanta.com

ANALYTICAL ENVIRONMENTAL SERVICES, INC.
3080 Presidential Drive Atlanta, GA 30340-3704
Phone: (770) 457-8177 / Toll-Free: (800) 972-4889 / Fax: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1707F80

Date: 7/19/17 Page 1 of 3

COMPANY: EPS Inc.

ADDRESS: 1050 Crown Pointe Pkwy, Ste. 550 Atlanta, GA 30338

PHONE: 404 315 9113

EMAIL:

SAMPLED BY: Alex Testoff Cameron Lee

SIGNATURE:

#	SAMPLE ID	SAMPLED: DATE	SAMPLED: TIME	GRAB	COMPOSITE	MATRIX (see codes)	Arsenic	PRESERVATION (see codes) I	REMARKS	Number of Containers
1	17200-S-22-0.5	7/19/17	1000	X		So	X		9	1
2	17200-S-22-2		1005	X			X			1
3	17200-S-22-4		1010	X			X			1
4	17200-S-22-8		1012	X			X		HOLD	1
5	17200-S-23-0.5		1025	X			X		HOLD	1
6	17200-S-23-2		1027	X			X		HOLD	1
7	17200-S-23-4		1032	X			X		HOLD	1
8	17200-S-23-8		1035	X			X		HOLD	1
9	17200-S-24-0.5		1040	X			X			1
10	17200-S-24-2		1042	X			X			1
11	17200-S-24-4		1045	X			X			1
12	17200-S-24-8		1047	X			X		HOLD	1
13	17200-S-25-0.5		1050	X			X			1
14	17200-S-25-2	7/19/17	1055	X		So	X			1

Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.

RELINQUISHED BY: 1. DATE/TIME: 7/19/17 1530

RECEIVED BY: 1. DATE/TIME: 7/19/17 1530

2.

3.

SPECIAL INSTRUCTIONS/COMMENTS: See Remarks for Samples on HOLD

SHIPMENT METHOD

OUT: / / VIA:

IN: / / VIA:

(Client) FedEx UPS US mail courier Greyhound

other:

PROJECT INFORMATION

PROJECT NAME: Grantville Mill

PROJECT #:

SITE ADDRESS: Grantville, GA

SEND REPORT TO: awilliams@envplanning.com

INVOICE TO:
(IF DIFFERENT FROM ABOVE)

QUOTE #: PO#:

RECEIPT

Total # of Containers: 14

Turnaround Time (TAT) Request

- ☐ Standard 5 Business Days
- ☐ 2 Business Day Rush
- ☒ Next Business Day Rush
- ☐ Same-Day Rush (auth req.)
- ☐ Other

STATE PROGRAM (if any):

E-mail? ☐ Fax? ☐

DATA PACKAGE: I ○ II ○ III ○ IV ○

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 arangements 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

ANALYTICAL ENVIRONMENTAL SERVICES, INC.
3080 Presidential Drive Atlanta, GA 30340-3704
AES Phone: (770) 457-8177 / Toll-Free: (800) 972-4889 / Fax: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1707F80

Date: 7/19/17 Page 2 of 3

COMPANY: EPS Inc.

ADDRESS: 1050 Crown Pointe Pkwy, Ste. 550 Atlanta, GA 30338

PHONE: 404 315 9113

EMAIL:

SAMPLED BY: Alex Testoff Cameron Lee

SIGNATURE: Alex Testoff Cameron Lee

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	GRAB	COMPOSITE	MATRIX (see codes)	Arsenic	PRESERVATION (see codes) I	REMARKS	Number of Containers
1	17200-S-25-4	7/19/17	1058	X		SO	X	X		1
2	17200-S-25-8		1100	X			X	X	HOLD	1
3	17200-S-26-0.5		1103	X			X	X		1
4	17200-S26-2		1105	X			X	X		1
5	17200-S-26-4		1108	X			X	X		1
6	17200-S-26-8		1110	X			X	X	HOLD	1
7	17200-S-27-0.5		1120	X			X	X		1
8	17200-S-27-2		1123	X			X	X		1
9	17200-S-27-4		1127	X			X	X		1
10	17200-S-27-8		1129	X			X	X	HOLD	1
11	17200-S-28-0.5		1132	X			X	X		1
12	17200-S-28-2		1134	X			X	X		1
13	17200-S-28-4		1139	X			X	X		1
14	17200-S-28-8	7/19/17	1141	X		SO	X	X	HOLD	1

Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1. Alex Testoff	7/19/17 1530	1.	7/19/17 1530
2.		2.	
3.		3.	

SPECIAL INSTRUCTIONS/COMMENTS: See Remarks for samples on HOLD

SHIPMENT METHOD
OUT: / / VIA:
IN: / / VIA:
client FedEx UPS US mail courier Greyhound
other: _____

PROJECT INFORMATION
PROJECT NAME: Granville Mill
PROJECT #:
SITE ADDRESS: Granville GA
SEND REPORT TO: awilliams@enviplanning.com
INVOICE TO:
(IF DIFFERENT FROM ABOVE)
QUOTE #: _____ PO#: _____

RECEIPT
Total # of Containers: 14

Turnaround Time (TAT) Request
- ☐ Standard 5 Business Days
- ☐ 2 Business Day Rush
- ☒ Next Business Day Rush
- ☐ Same-Day Rush (auth req.)
- ☐ Other _____

STATE PROGRAM (if any): _____
E-mail? ☐ Fax? ☐
DATA PACKAGE: I ○ II ○ III ○ IV ○

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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

ANALYTICAL ENVIRONMENTAL SERVICES, INC.
3080 Presidential Drive Atlanta, GA 30340-3704
Phone: (770) 457-8177 / Toll-Free: (800) 972-4889 / Fax: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1707F80

Date: 7/19/17 Page 3 of 3

COMPANY:	ADDRESS:
EPS Inc.	1050 Crown Pointe Pkwy, Ste 550 Atlanta, GA 30338
PHONE: 404 315 9113	EMAIL:
SAMPLED BY: Alex Tuttle Cameron Lee	SIGNATURE: Alex Tuttle Cameron Lee

#	SAMPLE ID	SAMPLED: DATE	SAMPLED: TIME	GRAB	COMPOSITE	MATRIX (see codes)	ANALYSIS REQUESTED: Arsenic	PRESERVATION (see codes): I	REMARKS	Number of Containers
1	17200-S-29-0.5	7/19/17	1148	X		So	X	X		1
2	17200-S-29-2	7/19/17	1151	X		So	X	X		1
3	~~17~~ (ANY)									
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										

Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1. Alex Tuttle	7/19/17 1530	1.	7/19/17 1530
2.		2.	
3.		3.	

SPECIAL INSTRUCTIONS/COMMENTS: See Remarks for Samples on HOLD

SHIPMENT METHOD
OUT: / / VIA:
IN: / / VIA:
(client) FedEx UPS US mail courier Greyhound
other: _____

PROJECT INFORMATION
PROJECT NAME: Grantville Mill
PROJECT #:
SITE ADDRESS: Grantville, GA
SEND REPORT TO: awilliams@envplanning.com
INVOICE TO:
(IF DIFFERENT FROM ABOVE)
QUOTE #: _____ PO#: _____

RECEIPT
Total # of Containers

Turnaround Time (TAT) Request
- ☐ Standard 5 Business Days
- ☐ 2 Business Day Rush
- ☒ Next Business Day Rush
- ☐ Same-Day Rush (auth req.)
- ☐ Other _____

STATE PROGRAM (if any): _____
E-mail? ☐ Fax? ☐
DATA PACKAGE: I ○ II ○ III ○ IV ○

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 arangements 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

Analytical Environmental Services, Inc

Date: 26-Jul-17

Client: Environmental Planning Specialists, Inc.
Project: Grantville Mill
Lab ID: 1707F80

Case Narrative

Initial samples were analyzed as a same day rush to meet due 07-20-17 at the request of Aaron williams via email 07-19-17.

At the request of Aaron Williams via email 07-20-17@19.04 samples 5A, 6A and 7A were taken off hold and analyzed as a 1 day rush.

Analytical Environmental Services, Inc **Date:** 26-Jul-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17200-S-22-0.5
Project Name:	Grantville Mill	**Collection Date:**	7/19/2017 10:00:00 AM
Lab ID:	1707F80-001	**Matrix:**	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D (SW3050B)								
Arsenic	101	4.99		mg/Kg-dry	245735	1	07/20/2017 12:53	IO
PERCENT MOISTURE D2216								
Percent Moisture	16.6	0		wt%	R348000	1	07/20/2017 16:00	VH

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:** 26-Jul-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17200-S-22-2
Project Name:	Grantville Mill	**Collection Date:**	7/19/2017 10:05:00 AM
Lab ID:	1707F80-002	**Matrix:**	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D (SW3050B)								
Arsenic	15.2	5.26		mg/Kg-dry	245735	1	07/20/2017 13:21	IO
PERCENT MOISTURE D2216								
Percent Moisture	26.0	0		wt%	R348000	1	07/20/2017 16:00	VH

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:** 26-Jul-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17200-S-22-4
Project Name:	Grantville Mill	**Collection Date:**	7/19/2017 10:10:00 AM
Lab ID:	1707F80-003	**Matrix:**	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D (SW3050B)								
Arsenic	18.5	4.83		mg/Kg-dry	245735	1	07/20/2017 13:25	IO
PERCENT MOISTURE D2216								
Percent Moisture	25.2	0		wt%	R348000	1	07/20/2017 16:00	VH

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:** 26-Jul-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17200-S-23-0.5
Project Name:	Grantville Mill	**Collection Date:**	7/19/2017 10:25:00 AM
Lab ID:	1707F80-005	**Matrix:**	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D (SW3050B)								
Arsenic	BRL	4.73		mg/Kg-dry	245763	1	07/24/2017 12:01	IO
PERCENT MOISTURE D2216								
Percent Moisture	17.0	0		wt%	R348170	1	07/24/2017 14:00	JC

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:** 26-Jul-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17200-S-23-2
Project Name:	Grantville Mill	**Collection Date:**	7/19/2017 10:27:00 AM
Lab ID:	1707F80-006	**Matrix:**	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D (SW3050B)								
Arsenic	BRL	4.50		mg/Kg-dry	245763	1	07/24/2017 13:01	IO
PERCENT MOISTURE D2216								
Percent Moisture	14.0	0		wt%	R348170	1	07/24/2017 14:00	JC

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:** 26-Jul-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17200-S-23-4
Project Name:	Grantville Mill	**Collection Date:**	7/19/2017 10:32:00 AM
Lab ID:	1707F80-007	**Matrix:**	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D (SW3050B)								
Arsenic	BRL	4.76		mg/Kg-dry	245763	1	07/24/2017 13:05	IO
PERCENT MOISTURE D2216								
Percent Moisture	16.5	0		wt%	R348170	1	07/24/2017 14:00	JC

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:** 26-Jul-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17200-S-24-0.5
Project Name:	Grantville Mill	**Collection Date:**	7/19/2017 10:40:00 AM
Lab ID:	1707F80-009	**Matrix:**	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D (SW3050B)								
Arsenic	5.14	4.67		mg/Kg-dry	245735	1	07/20/2017 13:30	IO
PERCENT MOISTURE D2216								
Percent Moisture	17.6	0		wt%	R348000	1	07/20/2017 16:00	VH

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:** 26-Jul-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17200-S-24-2
Project Name:	Grantville Mill	**Collection Date:**	7/19/2017 10:42:00 AM
Lab ID:	1707F80-010	**Matrix:**	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D (SW3050B)								
Arsenic	BRL	5.60		mg/Kg-dry	245735	1	07/20/2017 13:35	IO
PERCENT MOISTURE D2216								
Percent Moisture	17.9	0		wt%	R348000	1	07/20/2017 16:00	VH

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:** 26-Jul-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17200-S-24-4
Project Name:	Grantville Mill	**Collection Date:**	7/19/2017 10:45:00 AM
Lab ID:	1707F80-011	**Matrix:**	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D (SW3050B)								
Arsenic	BRL	4.46		mg/Kg-dry	245735	1	07/20/2017 13:40	IO
PERCENT MOISTURE D2216								
Percent Moisture	16.5	0		wt%	R348000	1	07/20/2017 16:00	VH

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:** 26-Jul-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17200-S-25-0.5
Project Name:	Grantville Mill	**Collection Date:**	7/19/2017 10:50:00 AM
Lab ID:	1707F80-013	**Matrix:**	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D (SW3050B)								
Arsenic	BRL	4.98		mg/Kg-dry	245735	1	07/20/2017 13:45	IO
PERCENT MOISTURE D2216								
Percent Moisture	8.50	0		wt%	R348000	1	07/20/2017 16:00	VH

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:** 26-Jul-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17200-S-25-2
Project Name:	Grantville Mill	**Collection Date:**	7/19/2017 10:55:00 AM
Lab ID:	1707F80-014	**Matrix:**	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D (SW3050B)								
Arsenic	BRL	3.20		mg/Kg-dry	245735	1	07/20/2017 13:56	IO
PERCENT MOISTURE D2216								
Percent Moisture	17.8	0		wt%	R348000	1	07/20/2017 16:00	VH

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:** 26-Jul-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17200-S-25-4
Project Name:	Grantville Mill	**Collection Date:**	7/19/2017 10:58:00 AM
Lab ID:	1707F80-015	**Matrix:**	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D (SW3050B)								
Arsenic	BRL	4.43		mg/Kg-dry	245735	1	07/20/2017 14:01	IO
PERCENT MOISTURE D2216								
Percent Moisture	13.2	0		wt%	R348000	1	07/20/2017 16:00	VH

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:** 26-Jul-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17200-S-26-0.5
Project Name:	Grantville Mill	**Collection Date:**	7/19/2017 11:03:00 AM
Lab ID:	1707F80-017	**Matrix:**	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D (SW3050B)								
Arsenic	BRL	5.00		mg/Kg-dry	245735	1	07/20/2017 14:07	IO
PERCENT MOISTURE D2216								
Percent Moisture	8.99	0		wt%	R348000	1	07/20/2017 16:00	VH

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:** 26-Jul-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17200-S-26-2
Project Name:	Grantville Mill	**Collection Date:**	7/19/2017 11:05:00 AM
Lab ID:	1707F80-018	**Matrix:**	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D (SW3050B)								
Arsenic	21.3	4.92		mg/Kg-dry	245735	1	07/20/2017 14:11	IO
PERCENT MOISTURE D2216								
Percent Moisture	19.4	0		wt%	R348000	1	07/20/2017 16:00	VH

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:** 26-Jul-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17200-S-26-4
Project Name:	Grantville Mill	**Collection Date:**	7/19/2017 11:08:00 AM
Lab ID:	1707F80-019	**Matrix:**	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D (SW3050B)								
Arsenic	4.61	4.54		mg/Kg-dry	245735	1	07/20/2017 14:18	IO
PERCENT MOISTURE D2216								
Percent Moisture	14.6	0		wt%	R348000	1	07/20/2017 16:00	VH

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:** 26-Jul-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17200-S-27-0.5
Project Name:	Grantville Mill	**Collection Date:**	7/19/2017 11:20:00 AM
Lab ID:	1707F80-021	**Matrix:**	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D (SW3050B)								
Arsenic	10.6	4.14		mg/Kg-dry	245735	1	07/20/2017 14:22	IO
PERCENT MOISTURE D2216								
Percent Moisture	13.5	0		wt%	R348000	1	07/20/2017 16:00	VH

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:** 26-Jul-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17200-S-27-2
Project Name:	Grantville Mill	**Collection Date:**	7/19/2017 11:23:00 AM
Lab ID:	1707F80-022	**Matrix:**	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D (SW3050B)								
Arsenic	68.0	5.59		mg/Kg-dry	245735	1	07/20/2017 14:26	IO
PERCENT MOISTURE D2216								
Percent Moisture	14.9	0		wt%	R348000	1	07/20/2017 16:00	VH

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:** 26-Jul-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17200-S-27-4
Project Name:	Grantville Mill	**Collection Date:**	7/19/2017 11:27:00 AM
Lab ID:	1707F80-023	**Matrix:**	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D (SW3050B)								
Arsenic	BRL	3.44		mg/Kg-dry	245735	1	07/20/2017 14:31	IO
PERCENT MOISTURE D2216								
Percent Moisture	16.7	0		wt%	R348000	1	07/20/2017 16:00	VH

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:** 26-Jul-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17200-S-28-0.5
Project Name:	Grantville Mill	**Collection Date:**	7/19/2017 11:32:00 AM
Lab ID:	1707F80-025	**Matrix:**	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D (SW3050B)								
Arsenic	BRL	4.08		mg/Kg-dry	245735	1	07/20/2017 14:36	IO
PERCENT MOISTURE D2216								
Percent Moisture	14.5	0		wt%	R348000	1	07/20/2017 16:00	VH

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:** 26-Jul-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17200-S-28-2
Project Name:	Grantville Mill	**Collection Date:**	7/19/2017 11:34:00 AM
Lab ID:	1707F80-026	**Matrix:**	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D (SW3050B)								
Arsenic	5.43	3.91		mg/Kg-dry	245735	1	07/20/2017 14:40	IO
PERCENT MOISTURE D2216								
Percent Moisture	14.4	0		wt%	R348000	1	07/20/2017 16:00	VH

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:** 26-Jul-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17200-S-28-4
Project Name:	Grantville Mill	**Collection Date:**	7/19/2017 11:39:00 AM
Lab ID:	1707F80-027	**Matrix:**	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D (SW3050B)								
Arsenic	BRL	4.06		mg/Kg-dry	245735	1	07/20/2017 14:51	IO
PERCENT MOISTURE D2216								
Percent Moisture	14.0	0		wt%	R348000	1	07/20/2017 16:00	VH

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:** 26-Jul-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17200-S-29-0.5
Project Name:	Grantville Mill	**Collection Date:**	7/19/2017 11:48:00 AM
Lab ID:	1707F80-029	**Matrix:**	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D (SW3050B)								
Arsenic	8.14	4.87		mg/Kg-dry	245735	1	07/20/2017 14:59	IO
PERCENT MOISTURE D2216								
Percent Moisture	13.0	0		wt%	R348000	1	07/20/2017 16:00	VH

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:** 26-Jul-17

Client:	Environmental Planning Specialists, Inc.	**Client Sample ID:**	17200-S-29-2
Project Name:	Grantville Mill	**Collection Date:**	7/19/2017 11:51:00 AM
Lab ID:	1707F80-030	**Matrix:**	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
METALS, TOTAL SW6010D (SW3050B)								
Arsenic	7.47	4.46		mg/Kg-dry	245735	1	07/20/2017 15:02	IO
PERCENT MOISTURE D2216								
Percent Moisture	13.8	0		wt%	R348000	1	07/20/2017 16:00	VH

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

Clear Save as

ANALYTICAL ENVIRONMENTAL SERVICES, INC. AES

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: **Environmental Planning Specialists, Inc.** AES Work Order Number: **1707F80**

2. Carrier: FedEx ☐ UPS ☐ USPS ☐ Client ■ Courier ☐ Other _____

		Yes	No	N/A	Details	Comments
3.	Shipping container/cooler received in good condition?	●	○	○	damaged ☐ leaking ☐ other ☐	
4.	Custody seals present on shipping container?	○	●	○		
5.	Custody seals intact on shipping container?	○	○	●		
6.	Temperature blanks present?	●	○	○		
7.	Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	●	○	○	Cooling initiated for recently collected samples / ice present ☐	
8.	Chain of Custody (COC) present?	●	○	○		
9.	Chain of Custody signed, dated, and timed when relinquished and received?	●	○	○		
10.	Sampler name and/or signature on COC?	●	○	○		
11.	Were all samples received within holding time?	●	○	○		
12.	TAT marked on the COC?	●	○	○	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. ☐	

13. Cooler 1 Temperature 1.3 °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C

14. Cooler 5 Temperature _____ °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). TR 7/19/17

		Yes	No	N/A	Details	Comments
16.	Were sample containers intact upon receipt?	●	○	○		
17.	Custody seals present on sample containers?	○	●	○		
18.	Custody seals intact on sample containers?	○	○	●		
19.	Do sample container labels match the COC?	●	○	○	incomplete info ☐ illegible ☐ no label ☐ other ☐	
20.	Are analyses requested indicated on the COC?	●	○	○		
21.	Were all of the samples listed on the COC received?	●	○	○	samples received but not listed on COC ☐ samples listed on COC not received ☐	
22.	Was the sample collection date/time noted?	●	○	○		
23.	Did we receive sufficient sample volume for indicated analyses?	●	○	○		
24.	Were samples received in appropriate containers?	●	○	○		
25.	Were VOA samples received without headspace (< 1/4" bubble)?	○	○	●		
26.	Were trip blanks submitted?	○	○	●	listed on COC ☐ not listed on COC ☐	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). AJ 7/19/17

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? *	○	○	●		
29.	Containers meet preservation guidelines?	○	○	●		
30.	Was pH adjusted at Sample Receipt?	○	○	●		

* 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). AJ 7/19/17

Locked

Client: Environmental Planning Specialists, Inc.
Project Name: Grantville Mill
Workorder: 1707F80

ANALYTICAL QC SUMMARY REPORT

BatchID: 245735

Sample ID: **MB-245735**	Client ID:			Units: **mg/Kg**	Prep Date: **07/19/2017**	Run No: **347994**
SampleType: **MBLK**	TestCode: **METALS, TOTAL** **SW6010D**			BatchID: **245735**	Analysis Date: **07/20/2017**	Seq No: **7643286**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	BRL	5.00									

Sample ID: **LCS-245735**	Client ID:			Units: **mg/Kg**	Prep Date: **07/19/2017**	Run No: **347994**
SampleType: **LCS**	TestCode: **METALS, TOTAL** **SW6010D**			BatchID: **245735**	Analysis Date: **07/20/2017**	Seq No: **7643287**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	45.33	5.00	50.00		90.7	80	120				

Sample ID: **1707F80-001AMS**	Client ID: **17200-S-22-0.5**			Units: **mg/Kg-dry**	Prep Date: **07/19/2017**	Run No: **347994**
SampleType: **MS**	TestCode: **METALS, TOTAL** **SW6010D**			BatchID: **245735**	Analysis Date: **07/20/2017**	Seq No: **7643293**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	150.0	4.97	49.67	101.1	98.4	75	125				

Sample ID: **1707F80-001AMSD**	Client ID: **17200-S-22-0.5**			Units: **mg/Kg-dry**	Prep Date: **07/19/2017**	Run No: **347994**
SampleType: **MSD**	TestCode: **METALS, TOTAL** **SW6010D**			BatchID: **245735**	Analysis Date: **07/20/2017**	Seq No: **7643294**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	143.8	4.99	49.86	101.1	85.7	75	125	150.0	4.19	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: Grantville Mill
Workorder: 1707F80

ANALYTICAL QC SUMMARY REPORT

BatchID: 245763

Sample ID: **MB-245763**	Client ID:			Units: **mg/Kg**	Prep Date: **07/21/2017**	Run No: **348162**
SampleType: **MBLK**	TestCode: **METALS, TOTAL** **SW6010D**			BatchID: **245763**	Analysis Date: **07/24/2017**	Seq No: **7648213**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	BRL	5.00									

Sample ID: **LCS-245763**	Client ID:			Units: **mg/Kg**	Prep Date: **07/21/2017**	Run No: **348162**
SampleType: **LCS**	TestCode: **METALS, TOTAL** **SW6010D**			BatchID: **245763**	Analysis Date: **07/24/2017**	Seq No: **7648214**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	48.75	5.00	50.00		97.5	80	120				

Sample ID: **1707F80-005AMS**	Client ID: **17200-S-23-0.5**			Units: **mg/Kg-dry**	Prep Date: **07/21/2017**	Run No: **348162**
SampleType: **MS**	TestCode: **METALS, TOTAL** **SW6010D**			BatchID: **245763**	Analysis Date: **07/24/2017**	Seq No: **7648216**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	48.80	4.73	47.33	4.062	94.5	75	125				

Sample ID: **1707F80-005AMSD**	Client ID: **17200-S-23-0.5**			Units: **mg/Kg-dry**	Prep Date: **07/21/2017**	Run No: **348162**
SampleType: **MSD**	TestCode: **METALS, TOTAL** **SW6010D**			BatchID: **245763**	Analysis Date: **07/24/2017**	Seq No: **7648217**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	47.95	4.74	47.38	4.062	92.6	75	125	48.80	1.75	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		