

Phase II Environmental Site Assessment Report

**Parcel ID 42-10-27-6850-2030-1000
1101 St. Johns Avenue
Palatka, Florida**

**Brownfields Petroleum and Hazardous Substance
Assessment
City of Palatka, Florida**

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1101 St. Johns Avenue
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Executive Summary

The City of Palatka retained Ayres Associates to evaluate the subject property for potential redevelopment. The purpose of this scope of work is to assess potential environmental impacts that may exist at the subject property that were identified in a Phase I Environmental Site Assessment (ESA) and their possible impact on site redevelopment, should any exist.

Subsurface information collected during this assessment was from the advancement of six soil probes, and the installation of four shallow monitoring wells and one deep monitoring well. The data collected indicates that unconsolidated sediments at the site consist of 6-7 foot thick fine-grained, poorly graded sand material overlaying discontinuous layers of alluvial deposits to the depth of exploration at 30 feet below ground surface (bgs). The alluvial deposits consist primarily of fine grained soils such as clayey sands, silty sands, and clay (high and low plasticity) with some lenses of poorly graded sands of variable thicknesses. The varying sediment sizes are most likely a reflection of different energy environments. For example, the finer grained soils (clay and silt) are likely related to a lower energy depositional environment compared to the sandy deposits.

Arsenic was detected at concentrations exceeding Florida Department of Environmental Protection's (FDEP's) Soil Cleanup Target Level (SCTL) for resident exposure in two of the ten samples analyzed. However, the range of arsenic concentrations detected (2.6 mg/Kg to 3.1 mg/Kg) are consistent with naturally occurring background concentrations in soil for this region. Background arsenic concentrations compiled by the FDEP indicates a range of arsenic in soil between 3.70 and 7.02 mg/Kg. The residential direct exposure concentration (SCTL) for benzo(a)pyrene and total benzo(a)pyrene equivalents was exceeded in two soil samples, SJ-MW-1 and SJ-GP-4 collected from 0'-1' below ground surface.

Detectable concentrations of dibenz(a,h)anthracene were found in the groundwater sample collected from well SJ-MW-2. This concentration exceeds the FDEP's Groundwater Cleanup Target Level (GCTL) for this compound.

Water level data obtained from the monitoring wells on February 21, 2017, indicate that depth to water ranged from 3.74 feet to 5.28 feet below ground surface from the top of well casing, and groundwater elevations ranged from 13.66 to 14.60 feet mean sea level (MSL). Groundwater flow is generally north, as illustrated in Figure 3. The average horizontal hydraulic gradient calculated for the water table aquifer was 0.0082. An upward vertical gradient of 0.0029 indicating groundwater discharge conditions, was measured between wells in well nest SJ-MW-1/SJ-MW-1D. Hydraulic conductivity values calculated for the monitoring wells were relatively similar across the site, ranging from 3.35×10^{-5} ft/sec in SJ-MW-3 which is screened primarily in a poorly graded sand/low plasticity clay, to 5.40×10^{-6} ft/sec in SJ-MW-1 which is screened in a clayey sand/low plasticity clay. The hydraulic conductivity value calculated for well SJ-MW-1D, screened in a poorly graded sand, was 1.25×10^{-6} ft/sec (which is a relatively low value for this soil type). The average horizontal groundwater flow velocity in the unconfined water table aquifer is estimated to be 0.02 feet/day.

Ayres Associates believes that environmental conditions at the site have been sufficiently evaluated and no additional investigation is recommended or warranted.

Acknowledgement

On behalf of the City of Palatka, Florida, Ayres Associates would like to extend its sincere appreciation to the U.S. Environmental Protection Agency (USEPA) for their funding support and to the Florida Department of Environmental Protection (FDEP) for their technical assistance. The U.S. EPA Brownfield Site Assessment Grant Program not only graciously awarded the City of Palatka this grant to assist in funding the environmental activities outlined in this report, but has continued to support the City of Palatka's efforts as they move toward redevelopment. Without this funding support, this Brownfield site may have laid idle indefinitely. We are indebted to the U.S. EPA for making financial assistance available for this important redevelopment project.

Introduction

The City of Palatka, Florida, retained Ayres Associates to evaluate the subject property for redevelopment. The purpose of this scope of work is to assess potential environmental impacts that may exist at the subject property and their possible impact on site redevelopment. The scope of work performed at the 1101 St. Johns Avenue property (PID #42-10-27-6850-2030-1000), includes evaluation and analysis of existing environmental data, soil sampling in the unsaturated zone, installation of monitoring wells and collection of groundwater samples, hydraulic conductivity testing and laboratory analysis of soil and groundwater samples. Proposed sample locations include areas of known or suspected impacts based on historical information contained in a Phase I Environmental Site Assessment (ESA) prepared by Ayres Associates.

A Phase II Environmental Site Assessment was conducted at the site from February 13, 2017, to February 21, 2017. The primary objectives of the assessment were to:

- Characterize the hydrogeologic and environmental conditions at the site
- Characterize the nature of potential impacts to soil and groundwater at the site
- Evaluate the threat, if any, to human health and the environment
- Evaluate the need to implement remedial action at the site in regards to site development

Environmental assessment and remediation planning activities related to site development are the subjects of this report.

Background

Site Location and Description

The subject property consists of one parcel of land (PID #42-10-27-6850-2030-1000) measuring approximately 0.34 acres and located in the Southwest Quarter of, Section 42, Township 10 South, Range 27 East, in the City of Palatka, Putnam County, Florida. The subject property is legally described as “DICKS MAP OF PALATKA MB2 P46, BLK 203 LOTS 10 12”. The subject property is located at 1101 St. Johns Avenue. The location of the parcel is shown on Figure 1.

Site History and Background

The history of the project area was obtained from a *Phase I Environmental Assessment Report, ASTM Practice E1527-13, Parcel ID 42-10-27-6850-2030-1000, 1101 St Johns Avenue, Palatka, FL* (September 2016), prepared by Ayres Associates Inc.

Most of the information about the past use of this property comes from Sanborn fire maps that date from 1897 to 1962. More current information about the past use of this property comes from personal interviews and historical deeds.

Sanborn maps indicate that a fueling station occupied the subject property between 1915 and 1953. Between 1915 and 1924, the fueling station included: a store, a gasoline tank (possible underground storage tank [UST]), an iron kerosene and gasoline tank (likely aboveground storage tank [AST]), two single-story structures for oil storage, a pump house, and a single-story dwelling in the northwest corner of the property. A rail spur extended from the rail lines situated south of the site and terminated on the west adjoining property just feet from the property line. By 1930, three additional steel gasoline ASTs were located on the south portion of the property. Prior to 1953, the fueling station's storage tanks and buildings were removed. The property was subsequently occupied by a restaurant until the late 1970s. The property has been vacant and idle for over 40 years.

A former dry cleaning facility located less than 500 feet west of the 1101 St Johns Avenue property is on the Florida Department of Environmental Protection (DEP) Division of Waste Management (DWM) Contaminated Responsible Party and Cleanup database. This site has a reported release of chlorinated hydrocarbons that contaminated soil and groundwater. Contaminated groundwater has migrated easterly off-site in the direction of groundwater flow and toward the St Johns Avenue site.

Recognized Environmental Concerns

Real or perceived environmental impacts to the 1101 St Johns Avenue property include but are not limited to: 1) possible VOC, polycyclic aromatic hydrocarbon (PAH), and heavy metals contamination from activities associated with the fueling station on the property; 2) possible VOC, PAH, and heavy metals contamination resulting from several decades of railroad use west of the 1101 St Johns Avenue property; and 3) possible chlorinated VOC contamination resulting from migration of contaminants in groundwater from the former dry cleaning facility.

Regional Geology and Hydrogeology

Geology

This preliminary evaluation of the site geology is based on existing published regional information and reports of environmental assessments performed on nearby sites by others. Regional information¹ indicates that surficial unconsolidated deposits in the Palatka area consist primarily of undifferentiated Quaternary sediments comprised of fine to coarse grained, clean to clayey unfossiliferous sands, sandy clay and clay with variable amounts of organics. These sediments are estimated to be between 20 to 140 feet thick and lie unconformably on the Hawthorn Group (quartz sands, dolostone and clay), undifferentiated Pliocene/Pleistocene shelly sediments or Cypresshead Formation (variably clayey to clean quartz sand). In turn, these formations lie unconformably on the Upper Eocene Ocala Limestone.

The Ocala Limestone, a biogenic marine limestone, is the uppermost bedrock unit of the Floridan aquifer system in the Palatka area. The Ocala Limestone is described as a white to cream, fine to coarse grained, poorly to well indurated fossiliferous limestone. Bedrock is expected to be located between 50 and 100 feet below mean sea level (msl).

Hydrogeology

Groundwater is used as a source for domestic, municipal, and irrigation water supplies in the Lower St Johns River Basin, which includes the City of Palatka. There are two primary aquifer systems in the area. The surficial aquifer system is an unconfined aquifer comprised of Quaternary sand and clayey sand. The water table of the surficial aquifer generally follows topography and is usually less than 10 feet below land surface. The main use of the aquifer is for domestic or irrigation purposes.

The primary water supply aquifer in the area and throughout much of Florida is the Floridan aquifer system.² This aquifer is comprised of a thick sequence of Tertiary carbonate rocks. The Ocala Limestone and underlying Avon Park Formation (limestone and dolostone) which comprise the upper units of the aquifer are the most productive formations of the system. The highly permeable Floridan Aquifer is separated from the surficial aquifer system by a lower permeability Hawthorn group confining layer. The depth to the Ocala Limestone in the Palatka area is estimated to be over 100 feet.

Recharge to the surficial and Floridan aquifer system occurs through direct infiltration of precipitation. The recharge rate of the aquifer system depends on the difference in head between the Floridan and surficial aquifers and the confining characteristics of sediments between the two aquifers. In some areas, upward leakage of water from the confined Floridan aquifer to the surficial aquifer can occur. The movement of water through sinkholes or water bodies that breach the confining layer can be a significant conduit for recharge to the Floridan aquifer. Discharge from the

¹ Green, Richard C., William, Christopher P. et al., 2014, Geologic Map of the USGS Saint Augustine 30 x 60 Minute Quadrangle, Northeast Florida, Florida Geological Survey Open- File Report 102.

² Miller, J.A. 1986. Hydrogeologic framework of the Floridan aquifer system in Florida and in parts of Georgia, Alabama, and South Carolina. Professional Paper 1403-B. Washington, D.C.: U.S. Geological Survey.

aquifer systems occur by evapotranspiration, seepage into surface water bodies, and discharge to springs and wells.

Based upon information obtained from reports of environmental assessments conducted at nearby sites, the depth to water table below 1101 St Johns Avenue is less than 10 feet from ground surface. Regional groundwater flow in the surficial aquifer is generally east toward the St Johns River.

Site Geology and Hydrogeology

Site Stratigraphy

Subsurface conditions were evaluated based on information collected from six soil probes and five soil borings advanced at the site during this assessment. Soil probes were advanced to a maximum depth of 10 feet below ground surface; soil borings were advanced to a maximum depth of 30 feet below ground surface. The nomenclature for probes and wells, or samples collected from probes or wells is as follows:

- SJ – St. Johns
- GP or MW – geoprobe [™] or monitoring well
- 0-2.5' - interval of soil sample collected
- D – indicates deep monitoring well

Four of the five soil borings advanced on 1101 St. Johns Avenue site during this assessment were used for installation of shallow monitoring wells (SJ-MW-1 thru SJ-MW-4); the one deeper soil boring was used for installation of a deep monitoring well (SJ-MW-1D). Locations of the probes, borings, and monitoring wells are shown on Figure 2. Geologic boring and well construction logs are presented in Appendix A. Geologic cross sections A-A' and B-B' are presented in Figure 4.

Subsurface information collected during this assessment indicates that unconsolidated sediments at the site consist of 6-7 foot thick fine-grained, poorly graded sand material overlaying discontinuous layers of alluvial deposits to the depth of exploration at 30 feet below ground surface (bgs). The alluvial deposits consist primarily of fine grained soils such as clayey sands, silty sands, and clay (high and low plasticity) with some lenses of poorly graded sands of variable thicknesses. The varying sediment sizes are most likely a reflection of different energy environments. For example, the finer grained soils (clay and silt) are likely related to a lower energy depositional environment compared to the sandy deposits.

The four stratigraphic units shown on the cross-sections were subdivided or defined by their different hydrogeologic characteristics, primarily grain size, porosity, and permeability. Bedrock was not encountered in any of the soil borings advanced at the site by Ayres Associates during this assessment.

Groundwater Flow Conditions

Groundwater Levels

Groundwater level and elevation data obtained from the monitoring wells on February 21, 2017, were used to estimate groundwater flow direction and gradient (Table 1). Top of casing well elevations were surveyed using a level loop and recorded to the nearest 0.01 feet. Water level data collected on February 21, 2017, indicate that depth to water ranged from 3.74 feet to 5.28 feet bgs.

Hydraulic Conductivity Testing

Hydraulic conductivity (slug) tests were performed on three of the five monitoring wells installed at the site during this assessment. Slug tests were not performed in monitoring wells SJ-MW-2 and SJ-MW-4 due to similar lithology and redundancy.

The slug tests were performed by rapidly lowering a solid cylinder (slug) into the well to cause an instantaneous rise in water level (falling head test), then measuring the return of the water level to its static condition. A second test was performed by removing the slug (rising head test), and again measuring the response of the water level in the well. Water level data were recorded with an automated pressure transducer and data logger system. Slug test data were evaluated using the Waterloo Hydrologic Aquifer Test Pro v. 2013.1 graphical analysis and reporting software. The slug tests were analyzed using the methods of Bouwer and Rice (1976)³ for unconfined aquifers. Results of the slug tests are summarized in Table 2. Slug test data and test parameters are presented in Appendix B.

Hydraulic conductivity values calculated for the monitoring wells were relatively similar across the site, ranging from 3.35×10^{-5} ft/sec in well SJ-MW-3 which is screened primarily in a poorly graded sand/low plasticity clay, to 5.40×10^{-6} ft/sec in well SJ-MW-1 which is screened in clayey sand/low plasticity clay. The hydraulic conductivity value calculated for well SJ-MW-1D, screened in a poorly graded sand, was 1.25×10^{-6} ft/sec (which is a relatively low value for this soil type).

Groundwater Flow

Water level data obtained from the monitoring wells on February 21, 2017, were used to construct a water table contour map. The water table contour map shown in Figure 3 utilizes data from monitoring wells installed on the subject site (1101 St. Johns Avenue). Based on this data, groundwater flow is generally north, as illustrated in Figure 3. The average horizontal hydraulic gradient calculated for the water table aquifer was 0.0082.

Due to the site's small size, only one deep monitoring well was installed on the project site; therefore, groundwater flow direction and velocity at depth in the unconsolidated aquifer could not be determined.

Vertical Gradients

Differences in hydraulic head can occur between different geologic units. The difference in hydraulic head is caused by steep hydraulic gradients induced by heavy groundwater pumping, large topographic relief, or by differences in hydraulic conductivity. Vertical gradients can induce or prevent contaminant migration in and between aquifers depending on the magnitude and direction of the gradient.

Vertical groundwater gradients were calculated for the one well nest installed at the project site. An upward vertical gradient of 0.0029 indicating groundwater discharge conditions, was measured between wells in well nest SJ-MW-1/SJ-MW-1D.

³ Bouwer, H. and R.C. Rice, A Slug Test for Determining Hydraulic Conductivity of Unconfined Aquifers with Completely or Partially Penetrating Wells, *Water Resources Research*, Vol.12, No.3, 1976, pp.423-428

Groundwater Flow Velocity

Groundwater flow velocity was calculated for the water table aquifer at this site using the formula:

$$V = ki/n_e$$

Where:

V = horizontal groundwater flow velocity

k = hydraulic conductivity

i = hydraulic gradient

n_e = effective porosity

An average (geometric mean) hydraulic conductivity value of 1.34×10^{-5} ft/sec was used in calculating groundwater flow velocity in the water table aquifer. This value was obtained by calculating the geometric mean of hydraulic conductivity results for tests performed on water table wells at the site.

The hydraulic gradient (i) used to calculate horizontal groundwater flow velocity is based on water levels measured on February 21, 2017. An average horizontal gradient of 0.0082 was used to calculate groundwater flow in the upper unconsolidated aquifer.

The velocity of groundwater is also influenced by the porosity of the aquifer material. The effective porosity (n_e) is a measure of the amount of interconnecting pore space that is available in a given volume of material through which water can move. The average effective porosity of the unconsolidated screened material (SC, CL, and SP) is assumed to be about 40%⁴.

Based on the values stated above, the average horizontal groundwater flow velocity in the unconsolidated aquifer across the subject site is approximately 0.0235 feet/day or 8.60 feet/year. The relatively low groundwater velocity is a result of the low to moderate hydraulic conductivity of the clayey sediments and the low hydraulic gradient.

⁴ Morris, D.A. and A.I. Johnson, 1967. Summary of hydrologic and physical properties of rock and soil materials as analyzed by the Hydrologic Laboratory of the U.S. Geological Survey, U.S. Geological Survey Water-Supply Paper 1839-D, 42p.

Soil Quality Assessment

Soil samples were collected from the probes and borings advanced during the investigation and submitted to Advanced Environmental Laboratories Inc. in Jacksonville, Florida, for analysis. Selected samples were analyzed for volatile organic compounds (VOC), polycyclic aromatic hydrocarbons (PAH), and RCRA metals. The samples selected for analysis and type of analysis performed was based on field screening results, visual and olfactory observations during drilling, and the type of activity formerly performed in the area where the boring was advanced, as outlined in the site-specific sampling and analysis plan (SAP).

Field Observations and Screening Results

Headspace analysis was performed on each of the soil samples obtained from the probes and borings. Headspace analysis is a screening tool used to qualitatively assess the degree of potential impacts to soil from volatile organic compounds. The headspace analysis was performed using a photo ionization detector (PID) equipped with an 11.7 eV lamp in accordance with Florida Department of Environmental Protection Standard Operation Procedure FS 3000 (revised March 1, 2014). Headspace analysis results are shown on the boring logs in Appendix A.

Results of the headspace analysis indicate that elevated levels of volatile organic constituents are not present in soil samples collected from the project site. Elevated PID readings were not recorded for the soil samples collected.

Results of Soil Sample Laboratory Analysis

Ten soil samples collected from the soil probes and borings advanced during this assessment were submitted for analysis. Samples were analyzed for one or more of the following parameters: VOCs, PAHs, and RCRA metals. VOCs and PAH were analyzed using EPA SW-846 Method 8260 and Method 8270 SIM, respectively. Metals were analyzed using Methods 6010C and 7471. A summary of analyte detections in soil is presented in Table 3. Laboratory data reports for soil samples are presented in Appendix C.

Inorganic Analysis

Naturally occurring metals (arsenic, barium, cadmium, chromium, lead, mercury, and silver) were detected in one or more of the ten soil samples submitted for analysis. Arsenic was detected at concentrations exceeding Florida Department of Environmental Protection's (FDEP's) Soil Cleanup Target Level (SCTL) for resident exposure in two of the ten samples analyzed. These exceedances occurred in samples collected from SJ-MW-4 and SJ-GP-6, which are located in the southeast corner of the project site (1'-3' below ground surface). However, the range of arsenic concentrations detected (2.6 mg/Kg to 3.1 mg/Kg) are consistent with naturally occurring background concentrations in soil for this region.⁵ Background arsenic concentrations compiled by the FDEP indicates a range of arsenic in soil between 3.70 and 7.02 mg/Kg. Arsenic values were relatively

⁵ FDEP. 1996. Applicability of Soil Cleanup Goals for Florida. Internal Memorandum. Tallahassee, FL, Florida Department of Environmental Protection.

consistent throughout the soil profile and there is no reason, based on historical data, to suspect a widespread anthropogenic source of arsenic across this site.

Volatile Organic Compound Analysis (VOCs)

All the soil samples collected during this assessment were analyzed for VOCs. Laboratory results indicate that the only constituent detected above laboratory method detection limits was acetone. Acetone, a common laboratory artifact, was detected in four of the ten soil samples analyzed for VOCs. All the concentrations are well below the direct exposure concentrations delineated by the FDEP.

Polycyclic Aromatic Hydrocarbon Analysis (PAH)

Detectable concentrations of one or more PAHs were found in each of the ten soil samples submitted for PAH analysis. The residential direct exposure concentration for benzo(a)pyrene and total benzo(a)pyrene equivalents was exceeded in two soil samples, SJ-MW-1 and SJ-GP-4 collected from 0'-1' below ground surface.

Groundwater Quality Assessment

Groundwater samples were collected from each of the five monitoring wells installed at the project site. The purpose of this sampling is to characterize the nature and extent of potential contamination at the site by determining the type, distribution, and concentration of chemical constituents present in the groundwater. The analytical data were used in conjunction with site-specific geologic and hydrogeologic data and information on other environmental conditions to determine the potential for contaminant migration.

Ayres Associates collected one round of groundwater samples from four shallow monitoring wells (SJ-MW-1 through SJ-MW-4) and one deep well (SJ-MW-1D). Samples were collected from the wells on February 21, 2017, and submitted to Advanced Environmental Laboratories Inc. in Jacksonville, Florida, for analysis. Each of the groundwater samples were analyzed for VOCs, PAH, and RCRA metals (dissolved). VOCs and PAH were analyzed using EPA SW-846 Method 8260 and Method 8270 SIM, respectively. Metals were analyzed using Methods 6010 and 7470. A summary of analyte detections in groundwater samples is presented in Table 4. Low-flow sampling stabilization data (field parameters) is presented within Table 5 and in Appendix D. Laboratory data sheets for the sampling event are presented in Appendix E.

Inorganic Analysis

Concentrations of naturally occurring metals (dissolved) were detected in each of the six groundwater samples analyzed. Dissolved barium and chromium were detected in each of the groundwater samples submitted for analysis. Concentrations of barium and chromium are well below the designated FDEP Groundwater Cleanup Target Level (GCTL) concentrations.

Volatile Organic Compound Analysis (VOCs)

Laboratory results indicate trace concentrations of acetone in groundwater samples collected from three of the five monitoring wells sampled. It should be noted that acetone was also detected in the trip blank (15 µg/L). None of the VOC concentrations exceeded FDEP GCTLs.

Polycyclic Aromatic Hydrocarbon Analysis (PAH)

Detectable concentrations of dibenz(a,h)anthracene were found in the groundwater sample collected from well SJ-MW-2. This concentration exceeds the FDEP's GCTL for this compound. However, for the remaining samples the laboratory method detection limit for dibenz(a,h)anthracene (<0.095 µg/L) exceeds the GCTL (0.005 µg/L). Therefore, it is inconclusive as to whether the GCTL was exceeded for samples collected from these wells.

Field Parameter Data

Real time data of temperature, pH, specific conductance, dissolved oxygen, oxidation-reduction potential (ORP), and turbidity were collected to compliment the analytical data. These data were used to construct a "geochemical model" of conditions at the site to assist in the interpretation and understanding of attenuation and or transformation processes that may be occurring, and the potential fate of the constituents of interest. Temperature, pH, specific conductance, turbidity, dissolved oxygen, and redox potential were obtained using an In-Situ®, Inc. Troll 9000 multi parameter water quality monitoring system. Simultaneous parameters were taken continuously

during pumping until readings stabilized. Field parameter data are presented on Table 5 and on the low-flow stabilization logs in Appendix D.

Temperature was relatively consistent from well to well across the project site (71.77-78.04°F). Other parameters such as pH, conductivity, dissolved oxygen, oxidation reduction potential, and turbidity varied slightly throughout the site.

Overall, the dissolved oxygen levels of the groundwater indicate an anaerobic environment which are indicative of the low pH that was measured in the groundwater. The Oxidation Reduction Potential (ORP) was also relatively low and ranged from -1mV to 182 mV. The wells on the northern portion of the project site were slightly less acidic (5.15-5.48) than the two wells on the southern half were slightly more (4.79-4.95). The conductivity of the groundwater was relatively low (74-222.7 µS/cm).

Turbidity also varied (0.5947-47.15 NTU) across the site and was highest in groundwater obtained from wells SJ-MW-1D, SJ-MW-2, and SJ-MW-4. Although the turbidity value exceeded 20 NTU in these wells, five consecutive measurements were within ±5 NTU.

Summary of Findings

Geology and Hydrogeology

- Subsurface information collected during this assessment indicates that unconsolidated sediments at the site consist of 6-7 foot thick fine-grained, poorly graded sand material overlaying discontinuous layers of alluvial deposits to the depth of exploration at 30 feet below ground surface (bgs). The alluvial deposits consist primarily of fine grained soils such as clayey sands, silty sands, and clay (high and low plasticity) with some lenses of poorly graded sands of variable thicknesses. The varying sediment sizes are most likely a reflection of different energy environments. For example, the finer grained soils (clay and silt) are likely related to a lower energy depositional environment compared to the sandy deposits.
- Water level data obtained from the monitoring wells on February 21, 2017, indicate that depth to water ranged from 3.74 feet to 5.28 feet below ground surface, with elevations ranging from 13.66 to 14.60 (ft MSL).
- Groundwater flow is generally north, as illustrated in Figure 3. The average horizontal hydraulic gradient calculated for the water table aquifer was 0.0082. An upward vertical gradient of 0.0029 indicating groundwater discharge conditions, was measured between wells in well nest SJ-MW-1/SJ-MW-1D.
- Hydraulic conductivity values calculated for the monitoring wells were relatively similar across the site, ranging from 3.35×10^{-5} ft/sec in SJ-MW-3 which is screened primarily in a poorly graded sand/low plasticity clay, to 5.40×10^{-6} ft/sec in SJ-MW-1 which is screened in a clayey sand/low plasticity clay. The hydraulic conductivity value calculated for well SJ-MW-1D, screened in a poorly graded sand, was 1.25×10^{-6} ft/sec (which is a relatively low value for this soil type).
- The average horizontal groundwater flow velocity in the unconfined water table aquifer is estimated to be 0.02 feet/day.

Soil Assessment

Inorganic Analysis

- Ten soil samples were analyzed for RCRA metals.
- Naturally occurring metals (arsenic, barium, cadmium, chromium, lead, mercury, and silver) were detected in one or more of the ten soil samples submitted for analysis.
- Arsenic was detected at concentrations exceeding Florida Department of Environmental Protection's (FDEP's) Soil Cleanup Target Level (SCTL) for resident exposure in two of the ten samples analyzed. These exceedances occurred in samples collected from probes SJ-MW-4 and SJ-GP-6, which are located in the southeast corner of the project site (1'-3' below ground surface). However, the range of arsenic concentrations detected (2.6 mg/Kg to 3.1 mg/Kg) are consistent with naturally occurring background concentrations in soil for this region. Background arsenic concentrations compiled by the FDEP indicates a range of arsenic in soil between 3.70 and 7.02 mg/Kg. Arsenic values were relatively consistent throughout the soil

profile and there is no reason, based on historical data, to suspect a widespread anthropogenic source of arsenic across this site.

Volatile Organic Compound Analysis (VOCs)

- All 10 of the soil samples collected during this assessment were analyzed for VOCs. Laboratory results indicate that the only constituent detected above laboratory method detection limits was acetone. Acetone, a common laboratory artifact, was detected in four of the ten soil samples analyzed for VOCs. All the concentrations are well below the direct exposure concentrations delineated by the FDEP.

Polycyclic Aromatic Hydrocarbon Analysis (PAH)

- Detectable concentrations of one or more PAHs were found in each of the ten soil samples submitted for PAH analysis.
- The residential direct exposure concentration (SCTL) for benzo(a)pyrene and total benzo(a)pyrene equivalents was exceeded in two soil samples, SJ-MW-1 and SJ-GP-4 collected from 0'-1' below ground surface.

Groundwater Assessment

Inorganic Analysis

- Six groundwater samples were submitted for RCRA metals analysis, one from each of the wells.
- Concentrations of naturally occurring metals (dissolved) were detected in each of the six groundwater samples analyzed. Dissolved barium and chromium were detected in each of the groundwater samples submitted for analysis. Concentrations of barium and chromium are well below the designated FDEP Groundwater Cleanup Target Level (GCTL) concentrations.

Volatile Organic Compound Analysis (VOCs)

- Laboratory results indicate trace concentrations of acetone in groundwater samples collected from three of the five monitoring wells sampled. None of the VOC concentrations exceeded FDEP GCTLs.

Polycyclic Aromatic Hydrocarbon Analysis (PAH)

- Five of the wells were analyzed for PAHs.
- Detectable concentrations of dibenz(a,h)anthracene were found in the groundwater sample collected from well SJ-MW-2. This concentration exceeds the FDEP's GCTL for this compound. However, for the remaining samples, the laboratory method detection limit for dibenz(a,h)anthracene (<0.095 µg/L) exceeds the GCTL (0.005 µg/L). Therefore, it is inconclusive as to whether the GCTL was exceeded for samples collected from these wells.

Recommendations

Ayres Associates recommends the following, based on information collected during the site assessment:

- The property owner or their interested parties should submit this Phase II Environmental Site Assessment Report to the Florida Department of Environmental Protection (FDEP) and the US EPA.
- No additional investigation is warranted or recommended based on the results of this Phase II Site Investigation.

Acknowledgement

On behalf of the City of Palatka, Florida, Ayres Associates would like to extend its sincere appreciation to the U.S. Environmental Protection Agency (USEPA) for their funding support and to the Florida Department of Environmental Protection (FDEP) for their technical assistance. The U.S. EPA Brownfield Site Assessment Grant Program not only graciously awarded the City of Palatka this grant to assist in funding the environmental activities outlined in this report, but has continued to support the City of Palatka's efforts as they move toward redevelopment. Without this funding support, this Brownfield site may have laid idle indefinitely. We are indebted to the U.S. EPA for making financial assistance available for this important redevelopment project.

Figures



Source: USGS 7.5-Minute Series Topographic Quadrangle, Palatka, Hastings, San Mateo, and Satsuma, FL, 2012



Figure 1 – Location Map

Phase II Environmental Site Assessment
 1101 St. Johns Avenue
 Palatka, FL
 April 2017

19-0668.26

AYRES
 ASSOCIATES

4/13/2017
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DR BY	TJS / CRB	BOOK NO.							
CHK BY	E. GROSS	JOB NO.	19-0668.26						
DATE	APRIL 2017	SCALE	AS SHOWN	NO.	DATE	REVISION	NO.	DATE	REVISION

1101 ST. JOHNS AVENUE
PALATKA, FLORIDA



SOIL PROBES, SHALLOW WATER TABLE OBSERVATION
WELLS, AND DEEP WELL MONITORING WELLS

DRAWING NO.
2



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CHK.BY	E. GROSS	JOB NO.	19-0668.26						
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1101 ST. JOHNS AVENUE
PALATKA, FLORIDA

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ASSOCIATES
Eau Claire, Wisconsin

WATER TABLE CONTOUR MAP

DRAWING NO.

3



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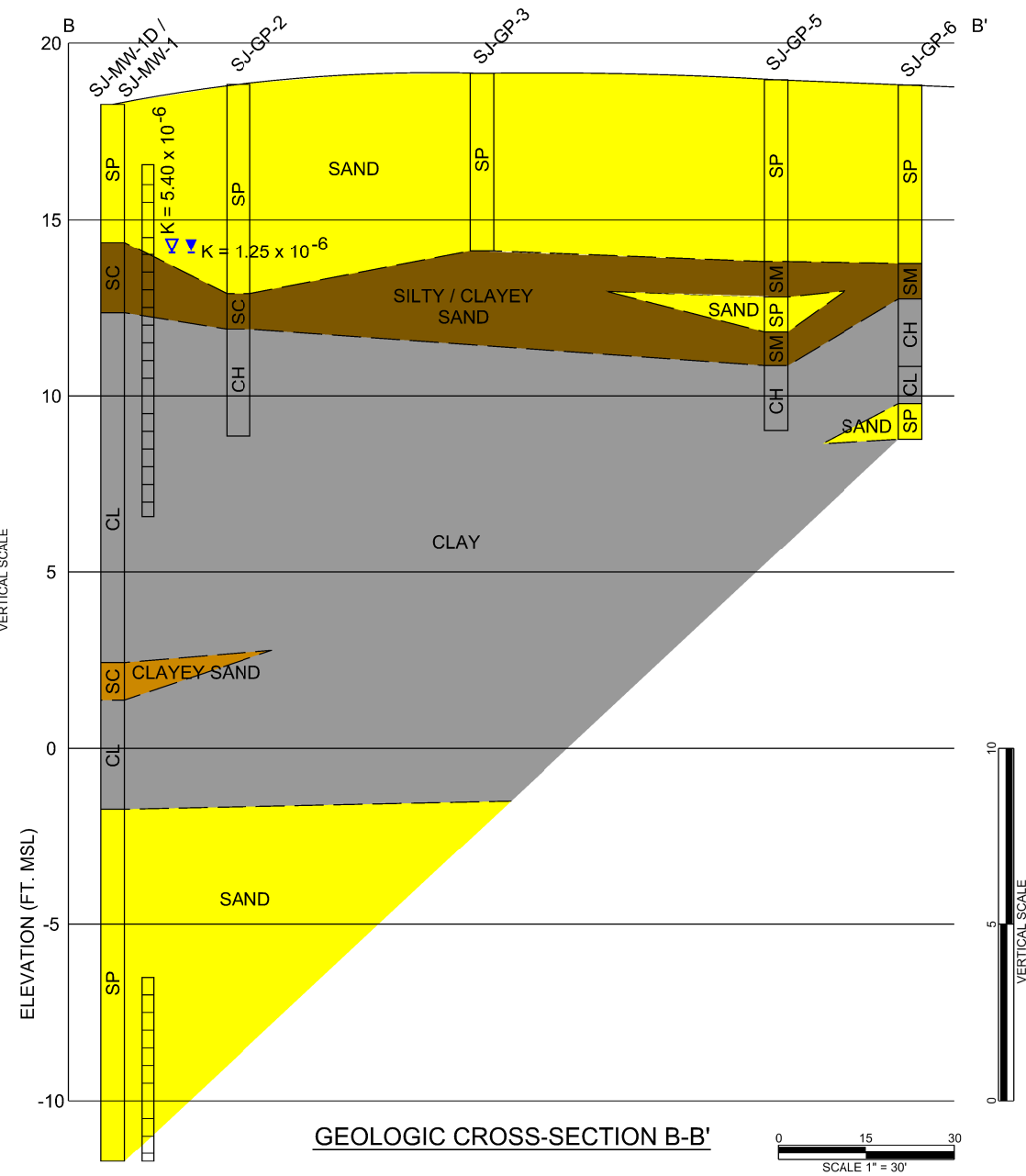
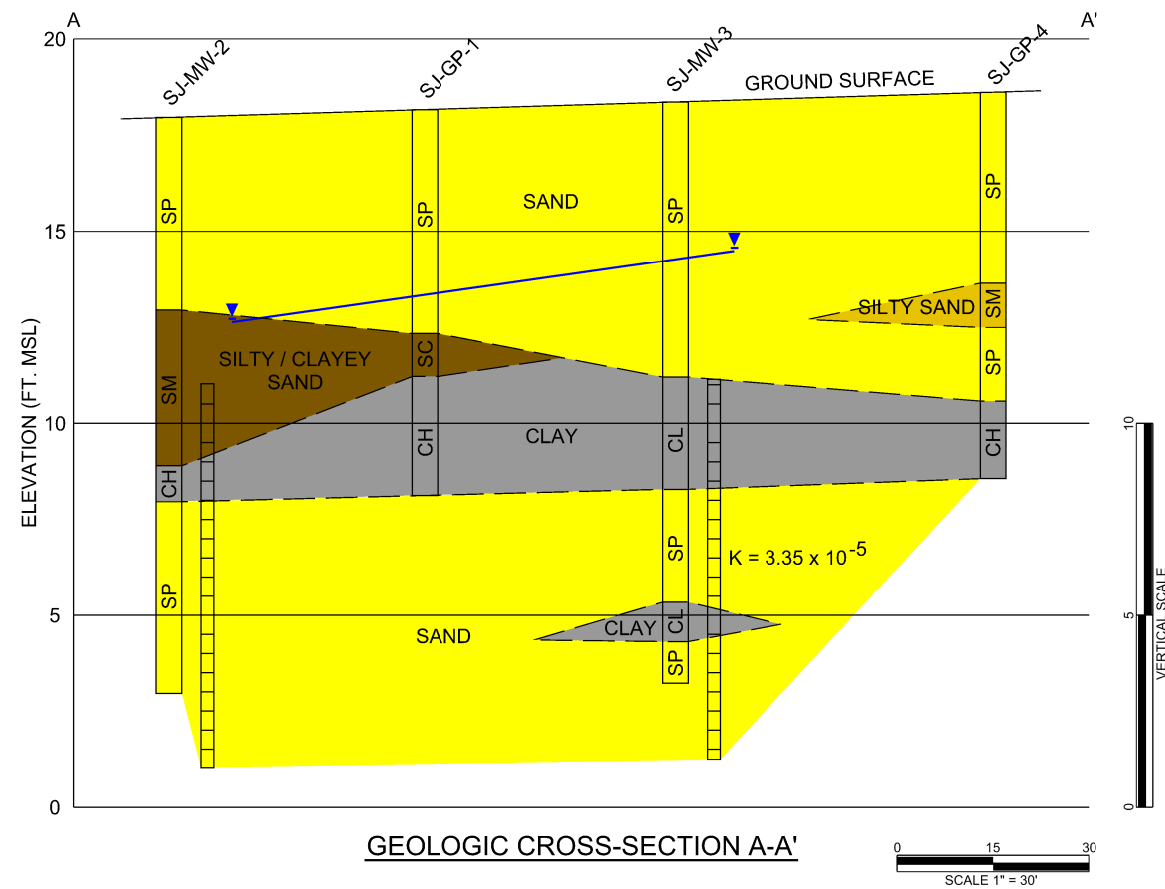
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CHK BY	E. GROSS	JOB NO.	19-0668.26						
DATE	APRIL 2017	SCALE	AS SHOWN	NO.	DATE	REVISION	NO.	DATE	REVISION

1101 ST. JOHNS AVENUE
PALATKA, FLORIDA

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ASSOCIATES
Eau Claire, Wisconsin

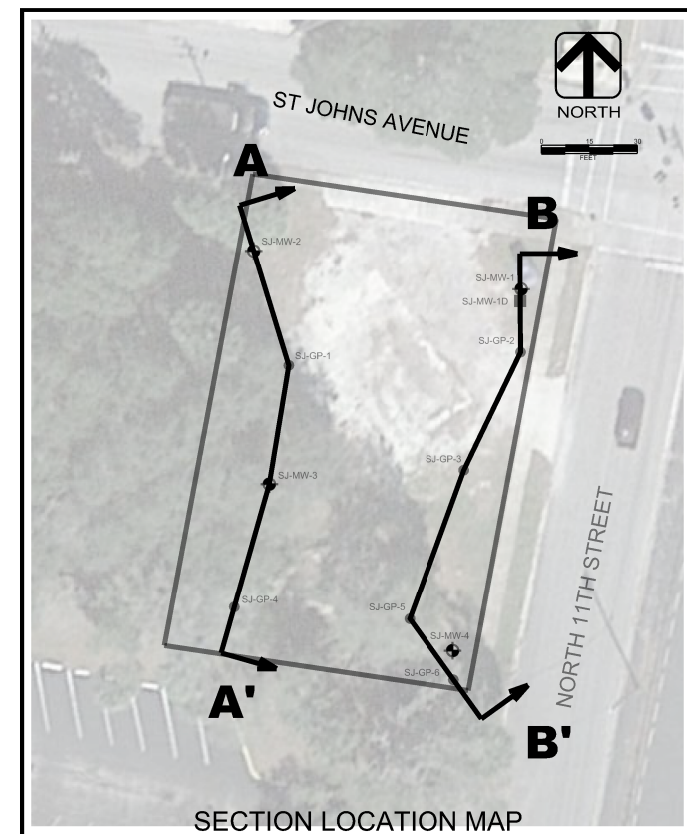
GEOLOGIC CROSS-SECTIONS A-A' AND B-B'

DRAWING NO.
4



LEGEND

- CL INORGANIC CLAYS OF LOW PLASTICITY
- SP POORLY-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
- SM SILTY SANDS, SAND-SILT MIXTURES
- CH INORGANIC CLAYS OF HIGH PLASTICITY
- CL CLAYEY SANDS, SAND-CLAY MIXTURES
- WATER LEVEL MEASURED IN SHALLOW MONITORING WELL
- WATER LEVEL MEASURED IN DEEP MONITORING WELL
- SOIL PROBE
- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- $K = 3.35 \times 10^{-5}$ HYDRAULIC CONDUCTIVITY (FT/S)



Tables

Table 1
Groundwater Elevation Data
1101 St. Johns Avenue
PID# 42-10-27-6850-2030-1000
Palatka, Florida

WELL ID	TOP OF CASING ELEVATION (ft MSL)	2/21/2017		Vertical Gradient
		DEPTH TO WATER (ft)	GW ELEVATION (ft MSL)	
SJ-MW-1	18.27	4.26	14.01	0.0029
SJ-MW-1D	18.33	4.26	14.07	
SJ-MW-2	18.94	5.28	13.66	
SJ-MW-3	18.39	3.87	14.52	
SJ-MW-4	18.34	3.74	14.60	

Note:

1. All wells surveyed to USGS datum. Wells surveyed to top of PVC casing.
2. Benchmark is top nut of a hydrant northeast of 1101 St. Johns Ave. which is southeast of the Palatka Fire Department building, (Assumed elevation of 20.98 ft. msl based on GPS elevation taken 02/20/2017).

Table 2
Summary of Hydraulic Conductivity Test Results
1101 St. Johns Avenue
PID# 42-10-27-6850-2030-1000
Palatka, Florida

Well Number /Test ¹	Hydraulic Conductivity ² (ft/sec)	Hydraulic Conductivity ³ (cm/sec)	Material Surrounding ⁴ Screen (USCS)
SJ-MW-1 Slug Out	5.40×10^{-6}	1.64×10^{-4}	SC, CL
SJ-MW-1D Slug In	2.06×10^{-6}	6.28×10^{-5}	SP*
SJ-MW-1D Slug Out	1.25×10^{-6}	3.81×10^{-5}	SP*
SJ-MW-3 Slug Out	3.35×10^{-5}	1.02×10^{-3}	SP, CL

Notes:

¹Slug in test = falling head test, Slug out test = rising head test

²ft/sec = hydraulic conductivity in units of feet per second

³cm/sec = hydraulic conductivity in units of centimeters per second

⁴Unified Soil Classification System (USCS) soil descriptions as per:

“Classification of Soils for Engineering Purposes: Annual Book of ASTM Standards, D 2487-83, 04.08, American Society for Testing and Materials, 1985, pp. 395–408”

* No recovery from 25’-27’ below ground surface, so the soil lithogy of the top two feet of the screen is unknown

Table 3
Summary of Soil Sample Laboratory Analytical Results
1101 St. Johns Avenue
PID# 42-10-27-6850-2030-1000
February 13, 2017

	Analytical Result (mg/Kg)						Soil standards	
Boring Number/Depth	SJ-MW-1 0'-1'	SJ-MW-2 1'-2'	SJ-MW-3 3'-4'	SJ-MW-4 1'-2'	SJ-GP-1 1'-2'	SJ-GP-2 2'-3'	FDEP Soil Cleanup Target Levels (SCTL) ¹	
Sampling Date	2/13/2017	2/13/2017	2/13/2017	2/13/2017	2/13/2017	2/13/2017		
Soil Type	SP	SP	SP	SP	SP	SP	Direct Exposure (DE) (Residential) ²	Direct Exposure (Commercial/Industrial) ³
Metals (EPA 6010/7471)	Analytical Result (mg/Kg)							
Arsenic	0.69	0.88	<0.23	2.6	0.70	0.88	2.1 (3.70-7.02)	12
Barium	14	20	3.7	70	13	37	120	130,000
Cadmium	0.17J	0.12J	<0.032	0.22	0.29	0.14J	82 (0.008-0.015)	1700
Chromium	3.1	3	0.35	6.4	3.7	4	210 (6.9-9.0)	470
Lead	35	170	3.5	340	53	110	400 (4.0-7.0)	1400
Mercury	0.024	0.09	0.0033J	0.45	0.0077	0.24	3	17
Selenium	<0.23	<0.2	<0.19	<0.22	<0.2	<0.21	440 (0.17-0.34)	11000
Silver	0.058J	<0.032	<0.03	0.37	0.067J	0.099J	410	8200
VOC (EPA 8260)	Analytical Result (mg/Kg)						FDEP SCTL ¹	
Acetone	<0.0041	<0.0033	0.0039J	0.0049J	<0.0033	0.0059J	DE Residential Soil ² 11000	DE Commercial/Industrial Soil ³ 68000
PAH (EPA 8270D SIM)	Analytical Result (mg/Kg)						FDEP SCTL ¹	
1-Methylnaphthalene	<0.012	<0.01	<0.0097	0.042	<0.0098	<0.01	DE Residential Soil ² 200	DE Commercial/Industrial Soil ³ 1800
2-Methylnaphthalene	<0.017	<0.014	<0.014	0.075	<0.014	<0.015	210	2100
Acenaphthene	<0.016	<0.014	<0.013	<0.015	<0.013	<0.014	2,400	20000
Acenaphthylene	<0.021	<0.018	<0.017	<0.02	<0.017	<0.019	1,800	20000
Anthracene	<0.022	<0.019	<0.018	<0.02	<0.018	<0.019	21,000	300,000
Benzo(a)anthracene	0.12	<0.015	<0.014	<0.016	0.019J	0.028J	ns	ns
Benzo(a)pyrene	0.19	<0.031	<0.03	<0.033	0.031J	0.042	0.1	0.7
Benzo(b)fluoranthene	0.28	0.034J	<0.021	<0.024	0.044	0.061	ns	ns
Benzo(g,h,i)perylene	0.2	0.025J	<0.024	<0.027	0.12	0.043	2,500	52,000
Benzo(k)fluoranthene	0.12	<0.023	<0.022	<0.025	<0.022	0.026J	ns	ns
Chrysene	0.22	0.027J	<0.018	<0.02	0.036	0.049	ns	ns
Dibenz(a,h)anthracene	0.045	<0.017	<0.016	<0.018	<0.016	<0.017	ns	ns
Fluoranthene	0.25	0.034J	<0.022	<0.025	0.04	0.057	3,200	59,000
Fluorene	<0.018	<0.015	<0.015	<0.017	<0.015	<0.016	2,600	33000
Indeno(1,2,3-cd)pyrene	0.2	0.02J	<0.018	<0.02	0.039	0.041	ns	ns
Naphthalene	<0.013	<0.011	<0.011	<0.049	<0.011	<0.011	55	300
Phenanthrene	0.034J	<0.014	<0.014	<0.016	<0.014	0.023J	2,200	36000
Pyrene	0.21	0.032J	<0.012	<0.014	0.033J	0.056	2,400	45000
Total Benzo(a)pyrene Equivalents	0.29642	0.030292	0.025769	0.028635	0.049346	0.063809	0.1	0.7

BOLD	Concentration exceeds Florida Department of Environmental Protection (FDEP) Soil Cleanup Target Level (SCTL) for resident direct exposure.
Bold	Concentration exceeds FDEP SCTL for commercial/industrial exposure.
()	Background concentrations of trace metals (by county) based on a 1999 study completed by the University of Florida, "Background Concentrations of Trace Metals in Florida Surface Soils..." http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.691.4671&rep=rep1&type=pdf
ns	No FDEP SCTL established.
<	Concentration less than laboratory method detection limit (MDL).
mg/Kg	Concentration reported as milligrams per kilogram, equivalent to parts per million (ppm).
FDEP SCTL	¹ FDEP has SCTLs which are presented in Table II in Florida Administrative Code (F.A.C.) Chapter 62-777, (effective 4/17/2005): http://www.dep.state.fl.us/waste/quick_topics/rules/documents/62-777/62-777_TableII_SoilCTLs.pdf ² Direct Exposure (DE) protection of a resident. Florida Legislature expects the most potential exposures during routine activities are limited to the top two feet of contaminated soil. ³ Direct Exposure protection of a commercial/industrial property. Florida Legislature expects the most potential exposures during routine activities are limited to the top two feet of contaminated soil.
J	Result was greater than or equal to the MDL but below the Practical Quantitation Limit (PQL).

Table 3 (continued)
Summary of Soil Sample Laboratory Analytical Results
1101 St. Johns Avenue
PID# 42-10-27-6850-2030-1000
February 13, 2017

	Analytical Result (mg/Kg)				Soil standards	
Boring Number/Depth	SJ-GP-3 1'-2'	SJ-GP-4 0'-1'	SJ-GP-5 3'-4'	SJ-GP-6 2'-3'	FDEP Soil Cleanup Target Levels (SCTL) ¹	
Sampling Date	2/13/2017	2/13/2017	2/13/2017	2/13/2017		
Soil Type	SP	SP	SP	SP	Direct Exposure (DE) (Residential) ²	Direct Exposure (Commercial/Industrial) ³
Metals (EPA 6010/7471)	Analytical Result (mg/Kg)					
Arsenic	1.0	0.51	0.31	3.1	2.1 (3.70-7.02)	12
Barium	9.6	25	3.8	28	120	130,000
Cadmium	0.2	0.21	<0.035	0.32	82 (0.008-0.015)	1700
Chromium	3.8	4	3.9	8.8	210 (6.9-9.0)	470
Lead	30	100	5.7	190	400 (4.0-7.0)	1400
Mercury	0.018	0.085	0.004J	0.12	3	17
Selenium	<0.19	<0.2	<0.21	<0.23	440 (0.17-0.34)	11000
Silver	0.071J	<0.032	<0.033	0.17	410	8200
VOC (EPA 8260)					FDEP SCTL ¹	
	Analytical Result (mg/Kg)				DE Residential Soil ²	DE Commercial/Industrial Soil ³
Acetone	<0.0037	<0.0042	0.0038J	<0.0046	11000	68000
PAH (EPA 8270D SIM)					FDEP SCTL ¹	
	Analytical Result (mg/Kg)				DE Residential Soil ²	DE Commercial/Industrial Soil ³
1-Methylnaphthalene	<0.01	<0.01	<0.011	<0.012	200	1800
2-Methylnaphthalene	<0.014	<0.014	<0.015	<0.017	210	2100
Acenaphthene	<0.013	<0.014	<0.014	<0.016	2,400	20000
Acenaphthylene	0.039	<0.018	<0.019	<0.021	1,800	20000
Anthracene	<0.018	<0.019	<0.02	<0.022	21,000	300,000
Benzo(a)anthracene	0.032J	0.066	<0.016	0.055	ns	ns
Benzo(a)pyrene	0.059	0.097	<0.033	0.057	0.1	0.7
Benzo(b)fluoranthene	0.077	0.15	<0.024	0.089	ns	ns
Benzo(g,h,i)perylene	0.07	0.096	<0.027	0.07	2,500	52,000
Benzo(k)fluoranthene	0.029J	0.057	<0.024	0.033J	ns	ns
Chrysene	0.056	0.12	<0.02	0.092	ns	ns
Dibenz(a,h)anthracene	<0.017	0.026J	<0.018	<0.02	ns	ns
Fluoranthene	0.07	0.15	<0.025	0.13	3,200	59,000
Fluorene	<0.015	<0.016	<0.016	<0.018	2,600	33000
Indeno(1,2,3-cd)pyrene	0.061	0.097	<0.019	0.048	ns	ns
Naphthalene	<0.011	<0.011	<0.012	<0.013	55	300
Phenanthrene	<0.014	0.041	<0.015	0.042	2,200	36000
Pyrene	0.066	0.13	<0.013	0.13	2,400	45000
Total Benzo(a)pyrene Equivalents	0.084846	0.15499	0.02858	0.086622	0.1	0.7

BOLD	Concentration exceeds Florida Department of Environmental Protection (FDEP) Soil Cleanup Target Level (SCTL) for resident direct exposure.
Bold	Concentration exceeds FDEP SCTL for commercial/industrial exposure.
()	Background concentrations of trace metals (by county) based on a 1999 study completed by the University of Florida, "Background Concentrations of Trace Metals in Florida Surface Soils..." http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.691.4671&rep=rep1&type=pdf
ns	No FDEP SCTL established.
<	Concentration less than laboratory method detection limit (MDL).
mg/Kg	Concentration reported as milligrams per kilogram, equivalent to parts per million (ppm).
FDEP SCTL	¹ FDEP has SCTLs which are presented in Table II in Florida Administrative Code (F.A.C.) Chapter 62-777, (effective 4/17/2005): http://www.dep.state.fl.us/waste/quick_topics/rules/documents/62-777/62-777_TableII_SoilCTLs.pdf
	² Direct Exposure (DE) protection of a resident. Florida Legislature expects the most potential exposures during routine activities are limited to the top two feet of contaminated soil.
	³ Direct Exposure protection of a commercial/industrial property. Florida Legislature expects the most potential exposures during routine activities are limited to the top two feet of contaminated soil.
J	Result was greater than or equal to the MDL but below the Practical Quantitation Limit (PQL).

Table 4
Summary of Groundwater Sample Laboratory Analytical Results
1101 St. Johns Avenue
PID# 42-10-27-6850-2030-1000
February 21, 2017

Well Number	Analytical Result (µg/L)								FDEP Groundwater Cleanup Target Level (GCTL) ¹
	SJ-MW-1	SJ-MW-1 D	SJ-MW-1D	SJ-MW-2	SJ-MW-2 D	SJ-MW-3	SJ-MW-4	TRIP BLANK	
Sampling Date	2/21/2017	2/21/2017	2/21/2017	2/21/2017	2/21/2017	2/21/2017	2/21/2017	2/21/2017	
Metals (EPA 6010/7470)									
	Analytical Result (µg/L)								
Arsenic	<8.5	---	<8.5	<8.5	<8.5	<8.5	<8.5	---	10*
Barium	40	---	94	16	18	38	30	---	2,000*
Cadmium	<0.32	---	<0.32	<0.32	<0.32	<0.32	<0.32	---	5*
Chromium	2.6	---	3.5	4.7	4.9	3.5	8.8	---	100*
Lead	<1.3	---	<1.3	<1.3	<1.3	<1.3	<1.3	---	15*
Mercury	<0.011	---	<0.011	<0.011	<0.011	<0.011	<0.015	---	2*
Selenium	<6.8	---	<6.8	<6.8	<6.8	<6.8	<6.8	---	50*
Silver	<0.44	---	<0.44	<0.44	<0.44	<0.44	<0.44	---	100**
VOCs (EPA 8260)									
	Analytical Result (µg/L)								
Acetone	3.4J	2.6J	19	<2.1	---	<2.1	3.0J	15	6300
PAH (EPA 8270 SIM)									
	Analytical Result (µg/L)								
1-Methylnaphthalene	<0.20	---	<0.20	<0.20	---	<0.20	<0.20	---	28
2-Methylnaphthalene	<0.2	---	<0.2	<0.2	---	<0.2	<0.2	---	28
Acenaphthene	<0.16	---	<0.16	<0.16	---	<0.3	<0.32	---	20
Acenaphthylene	<0.17	---	<0.17	<0.17	---	<0.17	<0.17	---	210
Anthracene	<0.14	---	<0.14	<0.14	---	<0.14	<0.14	---	2100
Benzo(a)anthracene	<0.049	---	<0.049	<0.049	---	<0.049	<0.049	---	0.05
Benzo(a)pyrene	<0.15	---	<0.15	<0.15	---	<0.15	<0.15	---	0.2*
Benzo(b)fluoranthene	<0.05	---	<0.05	<0.05	---	<0.05	<0.05	---	0.05
Benzo(g,h,i)perylene	<0.19	---	<0.19	<0.19	---	<0.19	<0.19	---	210
Benzo(k)fluoranthene	<0.19	---	<0.19	<0.19	---	<0.19	<0.19	---	0.5
Chrysene	<0.13	---	<0.13	<0.13	---	<0.13	<0.13	---	4.8
Dibenz(a,h)anthracene	<0.095	---	<0.095	0.095	---	<0.095	<0.095	---	0.005
Fluoranthene	<0.15	---	<0.15	<0.15	---	<0.15	<0.15	---	280
Fluorene	<0.15	---	<0.15	<0.15	---	<0.15	<0.15	---	280
Indeno(1,2,3-cd)pyrene	<0.045	---	<0.045	<0.045	---	<0.045	<0.045	---	0.05
Naphthalene	<0.27	---	<0.27	<0.27	---	<0.27	<0.27	---	14#
Phenanthrene	<0.16	---	<0.16	<0.16	---	<0.16	<0.16	---	210
Pyrene	<0.14	---	<0.14	<0.14	---	<0.14	<0.14	---	210

BOLD	Concentration exceeds Florida Department of Environmental Protection (FDEP) groundwater cleanup target levels (GCTLs).
*	Maximum Contaminant Level (MCL) provided in Chapter 62-550 Florida Administrative Code (F.A.C.), Drinking Water Standards, Monitoring and Reporting
**	Secondary MCL provided in Chapter 62-550 Florida Administrative Code (F.A.C.), Drinking Water Standards, Monitoring and Reporting
#	Groundwater CTLs for class C carcinogens with no cancer slope factor were developed using the reference dose divided by a factor of 10, as described in the February 2005 Final Technical report: Development of Cleanup Target Levels (CTLs) for Chapter 62-777, F.A.C.
---	Not Analyzed
<	Concentration less than laboratory method detection limit.
µg/L	Standards reported as micrograms per liter, equivalent to parts per billion (ppb), except as noted.
¹	FDEP Groundwater Cleanup Target Level (GCTL), located in Chapter 62-777, Table I, F.A.C.
J	Estimated concentration was greater than or equal to the Method Detection Limit (MDL) but below the Practical Quantitation Limit (PQL).

Table 5
Water Quality Field Parameter Data
1101 St. Johns Avenue
PID# 42-10-27-6850-2030-1000
Palatka, Florida

Well ID	February 21, 2017					
	Temperature (°F)	PH	Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)
SJ-MW-1	74.54	5.39	170.1	4.8	123	0.5947
SJ-MW-1D	78.04	5.15	222.7	0.07	55	46.63
SJ-MW-2	71.77	5.48	79	1.72	182	47.15
SJ-MW-3	72.03	4.79	86.53	0.05	30	6.236
SJ-MW-4	73.68	4.95	74	0.06	-1	40.68

Appendix A

**Geologic Logs & Monitoring Well Construction/Well
Development Forms**

BORING LOG

Page 1 of 1

Boring/Well Number: SJ-GP-1		Permit Number:		FDEP Facility Identification Number:	
Site Name: 1101 St Johns Ave		Borehole Start Date: 02/13/17	Borehole Start Time: 11:45	☒ AM ☐ PM	
		End Date: 02/13/17	End Time: 11:55	☒ AM ☐ PM	
Environmental Contractor: Ayres Associates		Geologist's Name: Jeff Steiner		Environmental Technician's Name: Jeff Steiner	
Drilling Company: TransAmerican Drilling & Testing		Pavement Thickness (inches): N/A	Borehole Diameter (inches): 2 inches	Borehole Depth (feet): 10 feet	
Drilling Method(s): HA (0'-5'), DP (5'-10')	Apparent Borehole DTW (in feet from soil moisture content): 5'	Measured Well DTW (in feet after water recharges in well): N/A	OVA (list model and check type): ☐ FID ☒ PID		
Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☒ Backfill ☐ Stockpile ☐ Other (describe if other or multiple items are checked):					
Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☒ Backfill ☐ Other (describe)					

Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)													
Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Graphic Log	Moisture Content		
HA	0'-1'	12	N/A	N/A	N/A	5.9	1	SAND, some organics, moist, very fine-fine grained, poorly graded, no odor, brown/gray	SP		M	Lab Sample: SJ-GP-1 1'-2'	
HA	1'-2'	12	N/A	N/A	N/A	4.9	2	SAND, some sm. gravel, moist, v. fine-fine grained sand, poorly graded, no odor, brown			M		
HA	2'-3'	12	N/A	N/A	N/A	5.7	3				M		
HA	3'-4'	12	N/A	N/A	N/A	1.4	4	SAND, some sm. gravel, moist, v. fine-fine grained sand, poorly graded, no odor, black			M		
HA	4'-5'	12	N/A	N/A	N/A	1.4	5				M		
DP	5'-7.5'	30	N/A	N/A	N/A	5.8	6	SAND, trace silt, wet, poorly graded, no odor, dark brown			W		
							7	SAND, clayey, dark brown	SC		W		
DP	7.5'-10'	30	N/A	N/A	N/A	9.4	8	CLAY, trace organics (roots), wet, high plasticity, no odor, green	CH		W		
							9						W
							10						W
							11	EOB @ 10'					
							12						

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings

Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

BORING LOG

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Boring/Well Number: SJ-GP-2		Permit Number:		FDEP Facility Identification Number:	
Site Name: 1101 St Johns Ave		Borehole Start Date: 02/13/17	Borehole Start Time: 12:55	☐ AM ☒ PM	
		End Date: 02/13/17	End Time: 1:05	☐ AM ☒ PM	
Environmental Contractor: Ayres Associates		Geologist's Name: Jeff Steiner		Environmental Technician's Name: Jeff Steiner	
Drilling Company: TransAmerican Drilling & Testing		Pavement Thickness (inches): N/A	Borehole Diameter (inches): 2 inches	Borehole Depth (feet): 10 feet	
Drilling Method(s): HA (0'-5'), DP (5'-10')		Apparent Borehole DTW (in feet from soil moisture content): 6'	Measured Well DTW (in feet after water recharges in well): N/A	OVA (list model and check type): ☐ FID ☒ PID	
Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☒ Backfill ☐ Stockpile ☐ Other (describe if other or multiple items are checked):					
Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☒ Backfill ☐ Other (describe)					

Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)												
Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Graphic Log	Moisture Content	
HA	0'-1'	12	N/A	N/A	N/A	3.2	1	SAND, some organics, moist, very fine-fine grained, poorly graded, no odor, brown/gray	SP		M	Lab Sample: SJ-GP-2 2'-3'
HA	1'-2'	12	N/A	N/A	N/A	3.1	2	SAND, some sm. gravel, moist, v. fine-fine grained sand, poorly graded, no odor, brown			M	
HA	2'-3'	12	N/A	N/A	N/A	4.8	3				M	
HA	3'-4'	12	N/A	N/A	N/A	2.4	4	SAND, some sm. gravel, moist, v. fine-fine grained sand, poorly graded, no odor, black			M	
HA	4'-5'	12	N/A	N/A	N/A	1.9	5				M	
DP	5'-7.5'	30	N/A	N/A	N/A	1.7	6	SAND, trace silt, wet, poorly graded, no odor, dark brown		W		
							7	SAND, clayey, dark brown	SC		W	
DP	7.5'-10'	30	N/A	N/A	N/A	1.7	8	CLAY, trace organics (roots), wet, high plasticity, no odor, green	CH		W	
							9				W	
							10				W	
							11	EOB @ 10'				
							12					

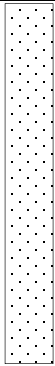
Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings

Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

BORING LOG

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Boring/Well Number: SJ-GP-3		Permit Number:		FDEP Facility Identification Number:	
Site Name: 1101 St Johns Ave		Borehole Start Date: 02/13/17	Borehole Start Time: 1:05	☐ AM ☒ PM	
		End Date: 02/13/17	End Time: 1:15	☐ AM ☒ PM	
Environmental Contractor: Ayres Associates		Geologist's Name: Jeff Steiner		Environmental Technician's Name: Jeff Steiner	
Drilling Company: TransAmerican Drilling & Testing		Pavement Thickness (inches): N/A	Borehole Diameter (inches): 2 inches	Borehole Depth (feet): 5 feet	
Drilling Method(s): HA (0'-5')	Apparent Borehole DTW (in feet from soil moisture content): >5'	Measured Well DTW (in feet after water recharges in well): N/A	OVA (list model and check type): ☐ FID ☒ PID		
Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☒ Backfill ☐ Stockpile ☐ Other (describe if other or multiple items are checked):					
Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☒ Backfill ☐ Other (describe)					

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Graphic Log	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA	0'-1'	12	N/A	N/A	N/A	14.7	1	SAND, some organics, little med. gravel, dry, very fine sand, poorly graded, no odor, brown	SP		D	Lab Sample: SJ-GP-3 1'-2'
HA	1'-2'	12	N/A	N/A	N/A	16.8	2				D	
HA	2'-3'	12	N/A	N/A	N/A	11.9	3	SAND, trace organics, little med. gravel, moist, very fine sand, poorly graded, no odor, brown			M	
HA	3'-4'	12	N/A	N/A	N/A	12.8	4				M	
HA	4'-5'	12	N/A	N/A	N/A	14.4	5	SAND, trace organics, little sm.-med. gravel, moist, v. fine sand, p. graded, no odor, brown			M	
							6	Refusal at 5'				
							7					
							8					
							9					
							10					
							11					
							12					

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill CuttingsMoisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

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Boring/Well Number: SJ-GP-4		Permit Number:		FDEP Facility Identification Number:	
Site Name: 1101 St Johns Ave		Borehole Start Date: 02/13/17	Borehole Start Time: 11:35	☒ AM ☐ PM	
		End Date: 02/13/17	End Time: 11:40	☒ AM ☐ PM	
Environmental Contractor: Ayres Associates		Geologist's Name: Jeff Steiner		Environmental Technician's Name: Jeff Steiner	
Drilling Company: TransAmerican Drilling & Testing		Pavement Thickness (inches): N/A	Borehole Diameter (inches): 2 inches	Borehole Depth (feet): 10 feet	
Drilling Method(s): HA (0'-5'), DP (5'-10')	Apparent Borehole DTW (in feet from soil moisture content): 6'	Measured Well DTW (in feet after water recharges in well): N/A	OVA (list model and check type): ☐ FID ☒ PID		
Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☒ Backfill ☐ Stockpile ☐ Other (describe if other or multiple items are checked):					
Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☒ Backfill ☐ Other (describe)					

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Graphic Log	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA	0'-1'	12	N/A	N/A	N/A	4.6	1	SAND, some organics, little sm. gravel, moist, v. fine-fine sand, poorly graded, no odor, dk. gray	SP		D	Lab Sample: SJ-GP-4 0'-1'
HA	1'-2'	12	N/A	N/A	N/A	1.2	2	SAND, some organics, little sm. gravel, moist, v. fine-fine sand, poorly graded, no odor, lt. gray			D	
HA	2'-3'	12	N/A	N/A	N/A	3.4	3	SAND, some organics, little sm. gravel, moist, v. fine-fine sand, poorly graded, no odor, brown			M	
HA	3'-4'	12	N/A	N/A	N/A	1.8	4				M	
HA	4'-5'	12	N/A	N/A	N/A	3.5	5				M	
DP	5'-7.5'	30	N/A	N/A	N/A	3.5	6	SAND, silty	SM		M	
							7	SAND, trace silt, wet, fine-medium grained, poorly graded, brown	SP		W	
DP	7.5'-10'	30	N/A	N/A	N/A	4.7	8				W	
							9	CLAY, wet, high plasticity, green	CH		W	
							10				W	
							11	EOB @ 10'				
							12					

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill CuttingsMoisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

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Boring/Well Number: SJ-GP-5		Permit Number:		FDEP Facility Identification Number:	
Site Name: 1101 St Johns Ave		Borehole Start Date: 02/13/17	Borehole Start Time: 1:20	☐ AM ☒ PM	
		End Date: 02/13/17	End Time: 1:30	☐ AM ☒ PM	
Environmental Contractor: Ayres Associates		Geologist's Name: Jeff Steiner		Environmental Technician's Name: Jeff Steiner	
Drilling Company: TransAmerican Drilling & Testing		Pavement Thickness (inches): N/A	Borehole Diameter (inches): 2 inches	Borehole Depth (feet): 10 feet	
Drilling Method(s): HA (0'-5'), DP (5'-10')	Apparent Borehole DTW (in feet from soil moisture content): 5'	Measured Well DTW (in feet after water recharges in well): N/A	OVA (list model and check type): ☐ FID ☒ PID		
Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☒ Backfill ☐ Stockpile ☐ Other (describe if other or multiple items are checked):					
Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☒ Backfill ☐ Other (describe)					

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Graphic Log	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA	0'-1'	12	N/A	N/A	N/A	10.6	1	SAND, some organics, moist, very fine-fine grained, poorly graded, no odor, black	SP		D	Lab Sample: SJ-GP-5 3'-4'
HA	1'-2'	12	N/A	N/A	N/A	9.6	2				D	
HA	2'-3'	12	N/A	N/A	N/A	10.6	3				M	
HA	3'-4'	12	N/A	N/A	N/A	11.2	4	SAND, some organics, trace silt, moist, very fine-fine grained, poorly graded, no odor, black			M	
HA	4'-5'	12	N/A	N/A	N/A	12.1	5	SAND, some organics, trace silt, moist, very fine-fine grained, poorly graded, no odor, brown			M	
DP	5'-7.5'	30	N/A	N/A	N/A	3.0	6	SAND, trace-some silt, trace clay, wet, very fine grained, gray-green	SM		W	
							7	SAND, wet, very fine grained, poorly graded, brown	SP		W	
							8	SAND, trace-some silt, trace clay, wet, very fine grained, gray-green	SM		W	
DP	7.5'-10'	30	N/A	N/A	N/A	7.7	9	CLAY, wet, medium-high plasticity, gray	CH		W	
							10				W	
							11	EOB @ 10'				
							12					

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill CuttingsMoisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

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Boring/Well Number: SJ-GP-6		Permit Number:		FDEP Facility Identification Number:	
Site Name: 1101 St Johns Ave		Borehole Start Date: 02/13/17	Borehole Start Time: 11:20	☒ AM ☐ PM	
		End Date: 02/13/17	End Time: 11:30	☒ AM ☐ PM	
Environmental Contractor: Ayres Associates		Geologist's Name: Jeff Steiner		Environmental Technician's Name: Jeff Steiner	
Drilling Company: TransAmerican Drilling & Testing		Pavement Thickness (inches): N/A	Borehole Diameter (inches): 2 inches	Borehole Depth (feet): 10 feet	
Drilling Method(s): HA (0'-5'), DP (5'-10')	Apparent Borehole DTW (in feet from soil moisture content): 6'	Measured Well DTW (in feet after water recharges in well): N/A	OVA (list model and check type): ☐ FID ☒ PID		
Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☒ Backfill ☐ Stockpile ☐ Other (describe if other or multiple items are checked):					
Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☒ Backfill ☐ Other (describe)					

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Graphic Log	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA	0'-1'	12	N/A	N/A	N/A	13.4	1	SAND, some organics, dry, very fine-fine grained, poorly graded, no odor, dark brown	SP		D	Lab Sample: SJ-GP-6 2'-3'
HA	1'-2'	12	N/A	N/A	N/A	12.8	2	SAND, some organics, moist, very fine-fine grained, poorly graded, no odor, dark brown	SP		D	
HA	2'-3'	12	N/A	N/A	N/A	16.2	3				M	
HA	3'-4'	12	N/A	N/A	N/A	12.2	4				M	
HA	4'-5'	12	N/A	N/A	N/A	16.3	5	SAND, some organics, trace silt, moist, very fine-fine grained, poorly graded, no odor, dark brown	SM		M	
DP	5'-7.5'	30	N/A	N/A	N/A	7.2	6	SAND, silty			M	
DP	7.5'-10'	30	N/A	N/A	N/A	3.2	7	CLAY, trace organics (roots), wet, medium-high plasticity, H2S odor, green	CH		W	
							8	occasional sand lenses	CL		W	
							9	CLAY, low plasticity, H2S odor, green			W	
							10	SAND, wet, poorly graded, white	SP		W	
							11	EOB @ 10'				
							12					

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill CuttingsMoisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

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Boring/Well Number: SJ-MW-1		Permit Number:		FDEP Facility Identification Number:	
Site Name: 1101 St Johns Ave		Borehole Start Date: 02/13/17	Borehole Start Time: 10:40 ☒ AM ☐ PM		
		End Date: 02/13/17	End Time: 11:10 ☒ AM ☐ PM		
Environmental Contractor: Ayres Associates		Geologist's Name: Erin Gross		Environmental Technician's Name: Erin Gross	
Drilling Company: TransAmerican Drilling & Testing		Pavement Thickness (inches): N/A	Borehole Diameter (inches): 2 inches		Borehole Depth (feet): 12 feet
Drilling Method(s): HA (0'-5'), DP (5'-12')		Apparent Borehole DTW (in feet from soil moisture content): 6'	Measured Well DTW (in feet after water recharges in well): 4.26		OVA (list model and check type): ☐ FID ☒ PID
Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☒ Spread ☐ Backfill ☐ Stockpile ☐ Other (describe if other or multiple items are checked):					
Borehole Completion (check one): ☒ Well ☐ Grout ☐ Bentonite ☐ Backfill ☐ Other (describe)					

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Graphic Log	Well Diagram	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA	0'-1'	12	N/A	N/A	N/A	6.2	1	SAND, some roots, moist, fine-medium grained, poorly graded, no odor, brown	SP			M	Lab Sample: SJ-MW-1 0'-1'
HA	1'-2'	12	N/A	N/A	N/A	3.7	2	SAND, moist, fine-medium grained, poorly graded, no odor, brown				M	
HA	2'-3'	12	N/A	N/A	N/A	2.0	3	SAND, trace silt, moist, very fine grained, poorly graded, no odor, black				M	
HA	3'-4'	12	N/A	N/A	N/A	9.7	4	SAND, moist, medium-large grained sand, poorly graded, no odor, gray/brown				M	
HA	4'-5'	12	N/A	N/A	N/A	12.4	5	SAND, clayey, moist, fine grained sand, no odor, dark brown	SC			M	
HA	5'-6'	12	N/A	N/A	N/A	1.3	6					M	
DP	6'-7.5'	18	N/A	N/A	N/A	16.7	7	CLAY, wet, low plasticity, no odor, gray	CL			W	
DP	7.5'-10'	30	N/A	N/A	N/A	16.3	8					W	
							9					W	
DP	10'-12.5'	30	N/A	N/A	N/A	16.1	10					W	
							11					W	
DP	12.5'-15'	30	N/A	N/A	N/A	0.0	12					W	

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings

Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

BORING LOG

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Boring/Well Number: SJ-MW-1		FDEP Facility Identification Number:			Site Name: 1101 St Johns Ave		Borehole Start Date: End Date:					
Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Graphic Log	Well Diagram	Moisture Content
							13	EOB @ 12', well set at 11.9' bgs				
							14					
							15					
							16					
							17					
							18					
							19					
							20					
							21					
							22					
							23					
							24					
							25					
							26					
							27					
							28					
							29					
							30					

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill CuttingMoisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

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Boring/Well Number: SJ-MW-1D		Permit Number:		FDEP Facility Identification Number:	
Site Name: 1101 St Johns Ave		Borehole Start Date: 02/13/17	Borehole Start Time: 10:40 ☒ AM ☐ PM		
		End Date: 02/13/17	End Time: 11:10 ☒ AM ☐ PM		
Environmental Contractor: Ayres Associates		Geologist's Name: Erin Gross		Environmental Technician's Name: Erin Gross	
Drilling Company: TransAmerican Drilling & Testing	Pavement Thickness (inches): N/A	Borehole Diameter (inches): 2 inches		Borehole Depth (feet): 30 feet	
Drilling Method(s): HA (0'-5'), DP (5'-30')	Apparent Borehole DTW (in feet from soil moisture content): 6'	Measured Well DTW (in feet after water recharges in well): 4.26		OVA (list model and check type): ☐ FID ☒ PID	
Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☒ Spread ☐ Backfill ☐ Stockpile ☐ Other (describe if other or multiple items are checked):					
Borehole Completion (check one): ☒ Well ☐ Grout ☐ Bentonite ☐ Backfill ☐ Other (describe)					

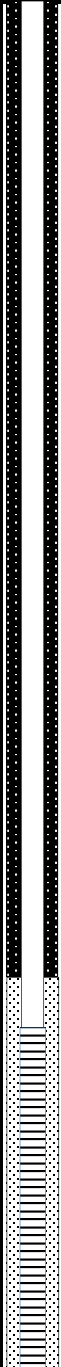
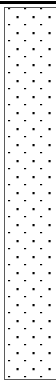
Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Graphic Log	Well Diagram	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA	0'-1'	12	N/A	N/A	N/A	6.2	1	SAND, some roots, moist, fine-medium grained, poorly graded, no odor, brown	SP			M	Lab Sample: SJ-MW-1 0'-1'
HA	1'-2'	12	N/A	N/A	N/A	3.7	2	SAND, moist, fine-medium grained, poorly graded, no odor, brown				M	
HA	2'-3'	12	N/A	N/A	N/A	2.0	3	SAND, trace silt, moist, very fine grained, poorly graded, no odor, black				M	
HA	3'-4'	12	N/A	N/A	N/A	9.7	4	SAND, moist, medium-large grained sand, poorly graded, no odor, gray/brown				M	
HA	4'-5'	12	N/A	N/A	N/A	12.4	5	SAND, clayey, moist, fine grained sand, no odor, dark brown	SC			M	
HA	5'-6'	12	N/A	N/A	N/A	1.3	6					M	
DP	6'-7.5'	18	N/A	N/A	N/A	16.7	7	CLAY, wet, low plasticity, no odor, gray	CL			W	
DP	7.5'-10'	30	N/A	N/A	N/A	16.3	8					W	
							9					W	
DP	10'-12.5'	30	N/A	N/A	N/A	16.1	10					W	
							11					W	
DP	12.5-15'	30	N/A	N/A	N/A	0.0	12					W	

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings

Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

BORING LOG

Page 2 of

Boring/Well Number: SJ-MW-1D				FDEP Facility Identification Number:				Site Name: 1101 St Johns Ave		Borehole Start Date: End Date:				
Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Graphic Log	Well Diagram	Moisture Content		
DP	15'-17.5'	30	N/A	N/A	N/A	0.6	13	CLAY, wet, low plasticity, no odor, gray	CL			W		
							14					W		
							15					W		
DP	17.5'-20'	30	N/A	N/A	2.2	16	SAND, clayey, wet, no odor, dark brown					SC		W
						17		W						
DP	20'-22.5'	30	N/A	N/A	8.9	18		CLAY, wet, low plasticity, no odor, gray	CL					W
						19								W
						20	W							
DP	22.5'-25'	30	N/A	N/A	4.2	21	SAND, wet, medium-large grained, poorly graded, no odor, gray					SP		W
						22		W						
DP	25'-27.5'	0	N/A	N/A	--	23		W						
						24		W						
DP	27.5'-30'	30	N/A	N/A	7.0	25		W						
						26		NO RECOVERY		W				
						27				W				
						28	SAND, wet, medium-large grained, poorly graded, no odor, gray	SP		W				
						29				W				
						30				EOB @ 30', well set at 30.2' bgs				W

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cutting
 Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Page 1 of 2

Boring/Well Number: SJ-MW-2		Permit Number:		FDEP Facility Identification Number:	
Site Name: 1101 St Johns Ave		Borehole Start Date: 02/13/17	Borehole Start Time: 11:50 ☒ AM ☐ PM		
		End Date: 02/13/17	End Time: 12:00 ☐ AM ☒ PM		
Environmental Contractor: Ayres Associates		Geologist's Name: Jeff Steiner		Environmental Technician's Name: Jeff Steiner	
Drilling Company: TransAmerican Drilling & Testing		Pavement Thickness (inches): N/A	Borehole Diameter (inches): 2 inches		Borehole Depth (feet): 15 feet
Drilling Method(s): HA (0'-5'), DP (5'-15')		Apparent Borehole DTW (in feet from soil moisture content): 5'	Measured Well DTW (in feet after water recharges in well): 5.28		OVA (list model and check type): ☐ FID ☒ PID
Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☒ Spread ☐ Backfill ☐ Stockpile ☐ Other (describe if other or multiple items are checked):					
Borehole Completion (check one): ☒ Well ☐ Grout ☐ Bentonite ☐ Backfill ☐ Other (describe)					

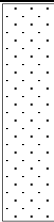
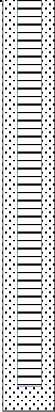
Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Graphic Log	Well Diagram	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA	0'-1'	12	N/A	N/A	N/A	-	1	NOT SAMPLED					
HA	1'-2'	12	N/A	N/A	N/A	12.7	2	SAND, some organics, moist, very fine-fine grained, poorly graded, no odor, gray/tan	SP			M	Lab Sample: SJ-MW-2 1'-2'
HA	2'-3'	12	N/A	N/A	N/A	6.6	3					M	
HA	3'-4'	12	N/A	N/A	N/A	8.4	4					M	
HA	4'-5'	12	N/A	N/A	N/A	12.3	5	SAND, some organics, trace silt, moist, very fine-fine grained, poorly graded, no odor, black/gray				M	
HA	5'-7.5'	30	N/A	N/A	N/A	1.3	6	SAND, trace-some silt, wet, fine grained, no odor, dark brown	SM			W	
							7					W	
DP	7.5'-10'	30	N/A	N/A	N/A	1.5	8					W	
							9					W	
DP	10'-12.5'	30	N/A	N/A	N/A	6.3	10	CLAY, wet, high plasticity, no odor, green	CH			W	
							11	SAND, trace silt, wet, very fine grained, poorly graded, no odor, brown-white	SP			W	
DP	12.5-15'	30	N/A	N/A	N/A	5.7	12					W	

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings

Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

BORING LOG

Page 2 of

Boring/Well Number: SJ-MW-2			FDEP Facility Identification Number:			Site Name: 1101 St Johns Ave			Borehole Start Date: End Date:			
Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Graphic Log	Well Diagram	Moisture Content
							13	SAND, trace silt, wet, very fine grained, poorly graded, no odor, brown-white	SP			W
						14	W					
						15	W					
							16	EOB @ 15', well set at 17' bgs				
							17					
							18					
							19					
							20					
							21					
							22					
							23					
							24					
							25					
							26					
							27					
							28					
							29					
							30					

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cutting
 Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Page 1 of 2

Boring/Well Number: SJ-MW-3		Permit Number:		FDEP Facility Identification Number:	
Site Name: 1101 St Johns Ave		Borehole Start Date: 02/13/17	Borehole Start Time: 9:15 ☒ AM ☐ PM	End Date: 02/13/17	
Environmental Contractor: Ayres Associates		Geologist's Name: Erin Gross		Environmental Technician's Name: Erin Gross	
Drilling Company: TransAmerican Drilling & Testing		Pavement Thickness (inches): N/A	Borehole Diameter (inches): 2 inches	Borehole Depth (feet): 15 feet	
Drilling Method(s): HA (0'-5'), DP (5'-15')		Apparent Borehole DTW (in feet from soil moisture content): 5'	Measured Well DTW (in feet after water recharges in well): 3.87	OVA (list model and check type): ☐ FID ☒ PID	
Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☒ Spread ☐ Backfill ☐ Stockpile ☐ Other (describe if other or multiple items are checked):					
Borehole Completion (check one): ☒ Well ☐ Grout ☐ Bentonite ☐ Backfill ☐ Other (describe)					

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Graphic Log	Well Diagram	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA	0'-1'	12	N/A	N/A	N/A	-	1	NOT SAMPLED					
HA	1'-2'	12	N/A	N/A	N/A	12.8	2	SAND, some roots, dry, very fine to fine grained, poorly graded, no odor, gray	SP			D	
HA	2'-3'	12	N/A	N/A	N/A	13.1	3	SAND, dry, very fine to fine grained, poorly graded, no odor, gray				D	
HA	3'-4'	12	N/A	N/A	N/A	14.3	4	SAND, moist, very fine to fine grained, poorly graded, no odor, gray				M	
HA	4'-5'	12	N/A	N/A	N/A	4.9	5					W	
HA	5'-7.5'	30	N/A	N/A	N/A	15.0	6	SAND, wet, fine-medium grained, poorly graded, no odor, dark brown				W	
							7	SAND, wet, fine-medium grained, poorly graded, no odor, tan				W	
DP	7.5'-10'	30	N/A	N/A	N/A	30.8	8	CLAY, trace fine grained sand, wet, low plasticity, gray	CL			W	
							9					W	
DP	10'-12.5'	30	N/A	N/A	N/A	20.5	10					W	
							11	SAND, wet, fine-medium grained, poorly graded, no odor, tan	SP			W	
DP	12.5'-15'	30	N/A	N/A	N/A	21.9	12					W	

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings

Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

BORING LOG

Page 2 of

Boring/Well Number: SJ-MW-3			FDEP Facility Identification Number:			Site Name: 1101 St Johns Ave			Borehole Start Date: End Date:			
Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Graphic Log	Well Diagram	Moisture Content
							13	SAND, wet, fine-medium grained, poorly graded, no odor, tan	SP			W
							14	CLAY, trace fine sand, wet, low plasticity, no odor, gray	CL			W
							15	SAND, wet, medium grained, poorly graded, no odor, light tan-white	SP			W
							16	EOB @ 15', well set at 17' bgs				
							17					
							18					
							19					
							20					
							21					
							22					
							23					
							24					
							25					
							26					
							27					
							28					
							29					
							30					

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill CuttingMoisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Page 1 of 2

Boring/Well Number: SJ-MW-4		Permit Number:		FDEP Facility Identification Number:	
Site Name: 1101 St Johns Ave		Borehole Start Date: 02/13/17	Borehole Start Time: 11:00 ☒ AM ☐ PM		
		End Date: 02/13/17	End Time: 11:10 ☒ AM ☐ PM		
Environmental Contractor: Ayres Associates		Geologist's Name: Jeff Steiner		Environmental Technician's Name: Jeff Steiner	
Drilling Company: TransAmerican Drilling & Testing		Pavement Thickness (inches): N/A	Borehole Diameter (inches): 2 inches		Borehole Depth (feet): 15 feet
Drilling Method(s): HA (0'-5'), DP (5'-15')		Apparent Borehole DTW (in feet from soil moisture content): 6'	Measured Well DTW (in feet after water recharges in well): 3.74		OVA (list model and check type): ☐ FID ☒ PID
Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☒ Spread ☐ Backfill ☐ Stockpile ☐ Other <i>(describe if other or multiple items are checked):</i>					
Borehole Completion (check one): ☒ Well ☐ Grout ☐ Bentonite ☐ Backfill ☐ Other (describe)					

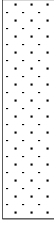
Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Graphic Log	Well Diagram	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA	0'-1'	12	N/A	N/A	N/A	10.8	1	SAND, moist, very fine to fine grained, poorly graded, no odor, gray/black	SP			M	Lab Sample: SJ-MW-4 1'-2'
HA	1'-2'	12	N/A	N/A	N/A	14.0	2	SAND, some organics, moist, very fine to fine grained, poorly graded, no odor, gray/black				M	
HA	2'-3'	12	N/A	N/A	N/A	16.0	3	SAND, some organics, moist, very fine to fine grained, poorly graded, no odor, brown				M	
HA	3'-4'	12	N/A	N/A	N/A	15.7	4	SAND, some organics, trace silt, moist, very fine to fine grained, poorly graded, no odor, brown				M	
HA	4'-5'	12	N/A	N/A	N/A	16.7	5	SAND, some organics, trace silt, moist, medium to fine grained, poorly graded, no odor, tan				M	
HA	5'-7.5'	30	N/A	N/A	N/A	9.7	6	SAND, silty	SM			M	
							7	CLAY, trace organics (roots), wet, high plasticity, green	CH			W	
DP	7.5'-10'	30	N/A	N/A	N/A	7.4	8	Few sand lenses				W	
							9					W	
DP	10'-12.5'	30	N/A	N/A	N/A	6.9	10					W	
							11					W	
DP	12.5-15'	30	N/A	N/A	N/A	3.5	12					W	

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings

Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

BORING LOG

Page 2 of

Boring/Well Number: SJ-MW-4		FDEP Facility Identification Number:			Site Name: 1101 St Johns Ave		Borehole Start Date: End Date:					
Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Graphic Log	Well Diagram	Moisture Content
							13	SAND, fine 1" clay lenses, wet, fine-medium grained, poorly graded, H2S odor, white-gray	SP			W
						14	W					
						15	W					
							16	EOB @ 15', well set at 11.9' bgs				
							17					
							18					
							19					
							20					
							21					
							22					
							23					
							24					
							25					
							26					
							27					
							28					
							29					
							30					

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill CuttingMoisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

PART III: WELL DEVELOPMENT DETAILS

Well Development Date 2/17/2017	Well Development Method: ☐ Surge/Pump ☒ Pump ☐ Compressed Air Other (explain)		
Development Duration 20 min	peristaltic pump		
Pumping Rate ~100 mL/min	Maximum Drawdown 7.64'	Well Purged Dry ☒ yes ☐ no	Pumping Condition ☐ continuous ☒ intermittent
Turbidity (if Measured): 0.5947 (when sampled)		Stabilized Water Level (BLS) 4.26'	
Start: 9:25am	End: 9:45am		
Water appearance (color and odor) at start of development:			
clear, no odor			
Water appearance (color and odor) at end of development:			
clear, no odor			

Report Prepared By:	Date
Erin Gross	3/27/17
Title/Company	License #
Environmental Scientist, Ayres Associates	

PLEASE ATTACH BORING LOG

Remarks:

Went dry around 9:40am (~15 minutes after start). Started again after letting the well recover and it went dry again after ~2 minutes. Very slow recovery. Flush mount.

PART III: WELL DEVELOPMENT DETAILS

Well Development Date 2/17/2017	Well Development Method: ☐ Surge/Pump ☒ Pump ☐ Compressed Air Other (explain)		
Development Duration 50 min	peristaltic pump		
Pumping Rate ~100 mL/min	Maximum Drawdown 24'	Well Purged Dry ☐ yes ☒ no	Pumping Condition ☒ continuous ☐ intermittent
Turbidity (if Measured): 46.63 (when sampled)		Stabilized Water Level (BLS) 4.26'	
Start: 9:25am	End: 10:15am		
Water appearance (color and odor) at start of development:			
turbid, dark gray, H2S odor			
Water appearance (color and odor) at end of development:			
low turbidity, slight gray color, H2S odor			

Report Prepared By:	Date
Erin Gross	3/27/17
Title/Company	License #
Environmental Scientist, Ayres Associates	N/A

PLEASE ATTACH BORING LOG

Remarks:

Didn't go dry, but a decent amount of drawdown. Flush mount.

PART III: WELL DEVELOPMENT DETAILS

Well Development Date 2/17/2017	Well Development Method: ☐ Surge/Pump ☒ Pump ☐ Compressed Air Other (explain)		
Development Duration 35 min	peristaltic pump		
Pumping Rate ~100 mL/min	Maximum Drawdown 11.72'	Well Purged Dry ☒ yes ☐ no	Pumping Condition ☐ continuous ☒ intermittent
Turbidity (if Measured): 47.15 (when sampled)		Stabilized Water Level (BLS)	
Start: 10:25am	End: 11:00am	5.28'	
Water appearance (color and odor) at start of development:			
turbid, some very fine sand coming through, tan, no odor			
Water appearance (color and odor) at end of development:			
low turbidity, tan, no odor			

Report Prepared By:	Date
Erin Gross	3/27/17
Title/Company	License #
Environmental Scientist, Ayres Associates	

PLEASE ATTACH BORING LOG

Remarks:

Went dry around 10:35am, started again at 10:45am after recovering some. Flush mount.

DEP Form #: 62-520.900(3)
Form Title: <u>MONITORING WELL COMPLETION REPORT</u>
Effective Date: <u>July 12, 2009</u>
DEP Application No. _____ (Filled in by DEP)

Florida Department of Environmental Protection

Bob Martinez Center, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400

MONITORING WELL COMPLETION REPORT

PART I: GENERAL INFORMATION

Well ID: SJ-MW-3	Site Name: 1101 St. Johns Ave.	Well Install Date 2/13/17
Facility ID	Alternate ID	FLUWID #
WMD Permit #		
Well Purpose ☐ Background ☐ Intermediate ☐ Compliance ☒ Other (explain) Determine if there's any groundwater contamination, for potential redevelopment purposes		
Latitude (to nearest 0.1 seconds) 29.6476370		Longitude (to nearest 0.1 seconds) -81.6404500
Latitude and Longitude collection method: ☐ DGPS ☒ AGPS ☐ MAP ☐ ZIPCODE ☐ DPHO ☐ UNKNOWN ☐ OTHER		

PART II: WELL CONSTRUCTION DETAILS

Contractor Name Mark Santorelli		Contractor License #	
Company Name Transamerica			
Construction Method: ☒ Hollow Stem Auger ☐ Solid Stem Auger ☐ Water/Mud Rotary ☐ Air Rotary ☐ Cable Tool ☒ Direct Push ☐ Sonic ☐ Other (describe)			Aquifer Monitored Undefined surficial aquifer
Top of Casing Elevation (NVGD or NAVD)		Ground Surface Elevation (NVGD or NAVD)	
Casing			
Material	Inside Diameter	Outside Diameter	Depth (ft.)
			From To
Sch. 40 PVC	2"	2.375"	0' 2'
Screen			
Material	Inside Diameter	Outside Diameter	Depth (ft.)
			From To
Sch. 40 PVC	2"	2.375"	2' 12'
Annulus			
Material including additives for sealant	Size of Material	Amount (# of bags)	Depth (ft.)
			From To
Cement grout	grout	1	0' 1'

PART III: WELL DEVELOPMENT DETAILS

Well Development Date 2/17/2017	Well Development Method: ☐ Surge/Pump ☒ Pump ☐ Compressed Air Other (explain)		
Development Duration 15 min	peristaltic pump		
Pumping Rate ~100 mL/min	Maximum Drawdown unknown	Well Purged Dry ☐ yes ☒ no	Pumping Condition ☒ continuous ☐ intermittent
Turbidity (if Measured): 6.236 (when sampled)		Stabilized Water Level (BLS)	
Start: 11:10am	End: 11:25am	3.87'	
Water appearance (color and odor) at start of development:			
low turbidity, tan, H2S odor			
Water appearance (color and odor) at end of development:			
slightly silty still, tan, H2S odor			

Report Prepared By:	Date
Erin Gross	3/27/17
Title/Company	License #
Environmental Scientist, Ayres Associates	

PLEASE ATTACH BORING LOG

Remarks:

Flush mount.

DEP Form #: 62-520.900(3)
Form Title: <u>MONITORING WELL COMPLETION REPORT</u>
Effective Date: <u>July 12, 2009</u>
DEP Application No. _____ (Filled in by DEP)

Florida Department of Environmental Protection

Bob Martinez Center, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400

MONITORING WELL COMPLETION REPORT

PART I: GENERAL INFORMATION

Well ID: SJ-MW-4	Site Name: 1101 St. Johns Ave.	Well Install Date 2/13/17
Facility ID	Alternate ID	FLUWID #
WMD Permit #		
Well Purpose ☐ Background ☐ Intermediate ☐ Compliance ☒ Other (explain) Determine if there's any groundwater contamination, for potential redevelopment purposes		
Latitude (to nearest 0.1 seconds) 29.6474930		Longitude (to nearest 0.1 seconds) -81.6402880
Latitude and Longitude collection method: ☐ DGPS ☒ AGPS ☐ MAP ☐ ZIPCODE ☐ DPHO ☐ UNKNOWN ☐ OTHER		

PART II: WELL CONSTRUCTION DETAILS

Contractor Name Mark Santorelli	Contractor License #				
Company Name Transamerica					
Construction Method: ☒ Hollow Stem Auger ☐ Solid Stem Auger ☐ Water/Mud Rotary ☐ Air Rotary ☐ Cable Tool ☒ Direct Push ☐ Sonic ☐ Other (describe)	Aquifer Monitored Undefined surficial aquifer				
Top of Casing Elevation (NVGD or NAVD)	Ground Surface Elevation (NVGD or NAVD)				
Casing					
Material	Inside Diameter	Outside Diameter	Depth (ft.)		
			From	To	
Sch. 40 PVC	2"	2.375"	0'	1.9'	
Screen					
Material	Inside Diameter	Outside Diameter	Depth (ft.)		Slot Size
			From	To	
Sch. 40 PVC	2"	2.375"	1.9'	11.9'	0.006"
Annulus					
Material including additives for sealant	Size of Material	Amount (# of bags)	Depth (ft.)		Installation Method
			From	To	
Cement grout	grout	1	0'	1'	pour/settle

PART III: WELL DEVELOPMENT DETAILS

Well Development Date 2/17/2017	Well Development Method: ☐ Surge/Pump ☒ Pump ☐ Compressed Air Other (explain)		
Development Duration 40 min	peristaltic pump		
Pumping Rate ~100 mL/min	Maximum Drawdown unknown	Well Purged Dry ☐ yes ☒ no	Pumping Condition ☒ continuous ☐ intermittent
Turbidity (if Measured): 40.68 (when sampled)		Stabilized Water Level (BLS)	
Start: 11:30am	End: 12:10pm	3.74'	
Water appearance (color and odor) at start of development:			
turbid, silt & sand, tan, strong H2S odor			
Water appearance (color and odor) at end of development:			
mod turbidity, tan, strong H2S odor			

Report Prepared By:	Date
Erin Gross	3/27/17
Title/Company	License #
Environmental Scientist, Ayres Associates	

PLEASE ATTACH BORING LOG

Remarks:

Flush mount.

Appendix B
Hydraulic Conductivity Test Data



Ayres Associates
5201 E. Terrace Drive, Suite 200
Madison, WI 53718

Slug Test Analysis Report

Project: Palatka - 1101 St. John Street

Number: 19-0668.25

Client: City of Palatka

Location: 1101 St. John Street

Slug Test: SJ- MW-1 Slug Out

Test Well: SJ-MW-1

Test Conducted by: Jeff Steiner

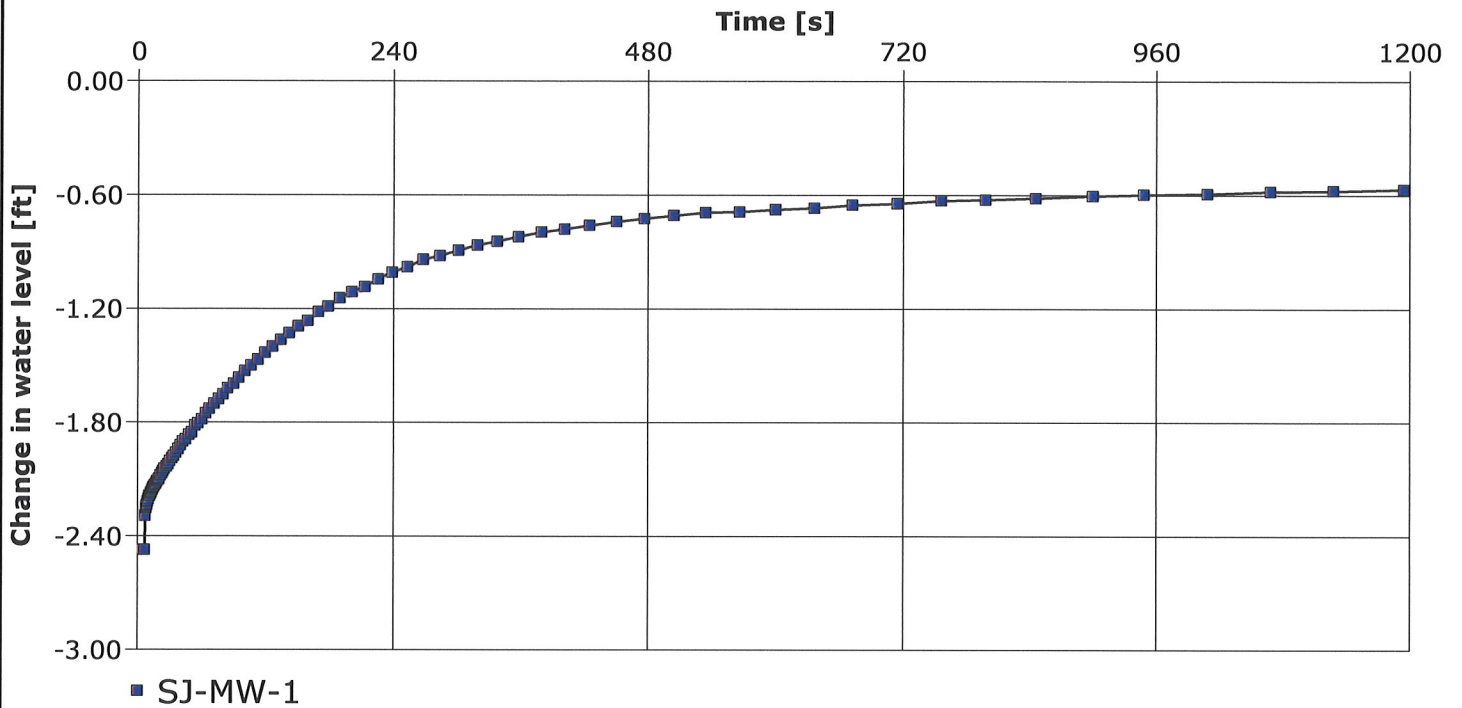
Test Date: 2/23/2017

Analysis Performed by: Jeff Steiner

SJ-MW-1 Slug Out Time_Drawdown

Analysis Date: 3/24/2017

Aquifer Thickness: 8.00 ft





Ayres Associates
5201 E. Terrace Drive, Suite 200
Madison, WI 53718

Slug Test Analysis Report

Project: Palatka - 1101 St. John Street

Number: 19-0668.25

Client: City of Palatka

Location: 1101 St. John Street

Slug Test: SJ- MW-1 Slug Out

Test Well: SJ-MW-1

Test Conducted by: Jeff Steiner

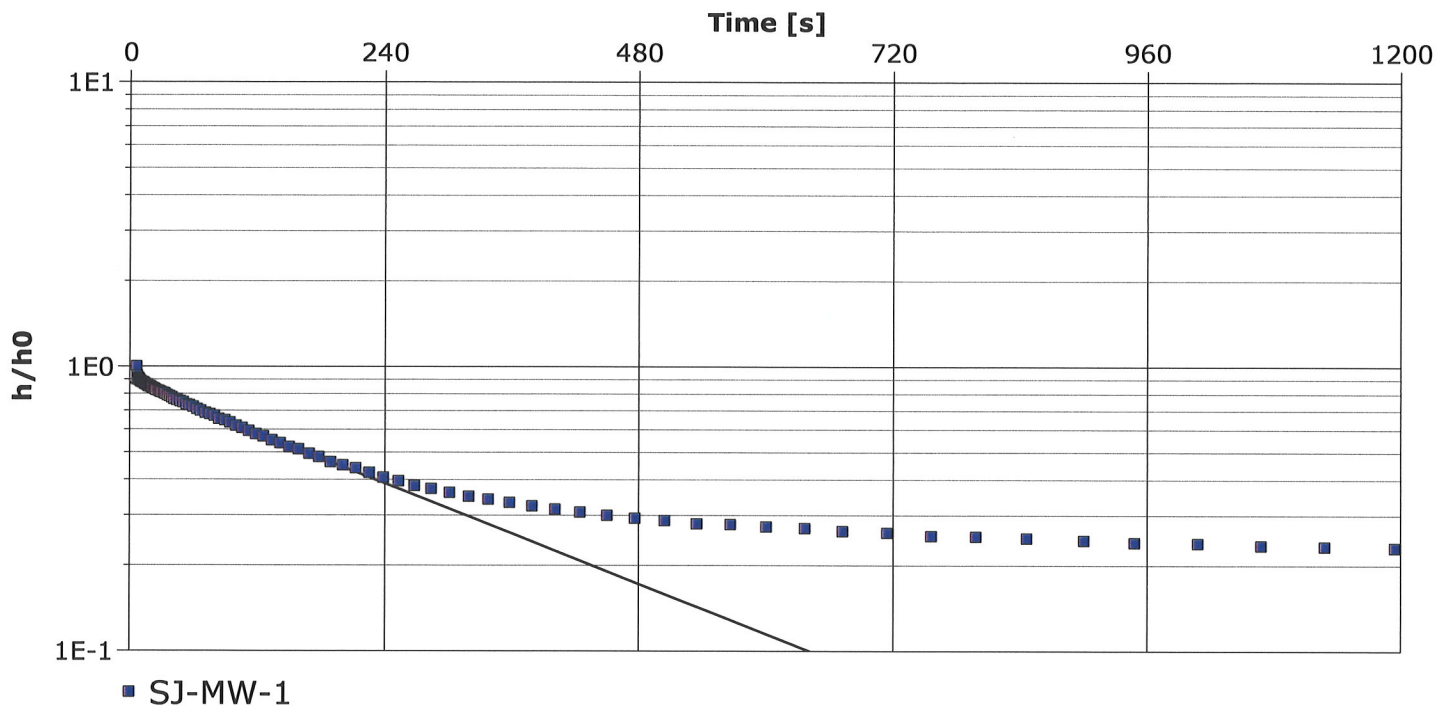
Test Date: 2/23/2017

Analysis Performed by: Jeff Steiner

SJ-MW-1 Slug Out Bouwer & Rice

Analysis Date: 3/24/2017

Aquifer Thickness: 8.00 ft



Calculation using Bouwer & Rice

Observation Well

Hydraulic
Conductivity
[ft/s]

SJ-MW-1

5.40×10^{-6}



Ayres Associates
5201 E. Terrace Drive, Suite 200
Madison, WI 53718

Slug Test Analysis Report

Project: Palatka - 1101 St. John Street

Number: 19-0668.25

Client: City of Palatka

Location: 1101 St. John Street

Slug Test: SJ-MW-1D Slug In

Test Well: SJ-MW-1D

Test Conducted by: Jeff Steiner

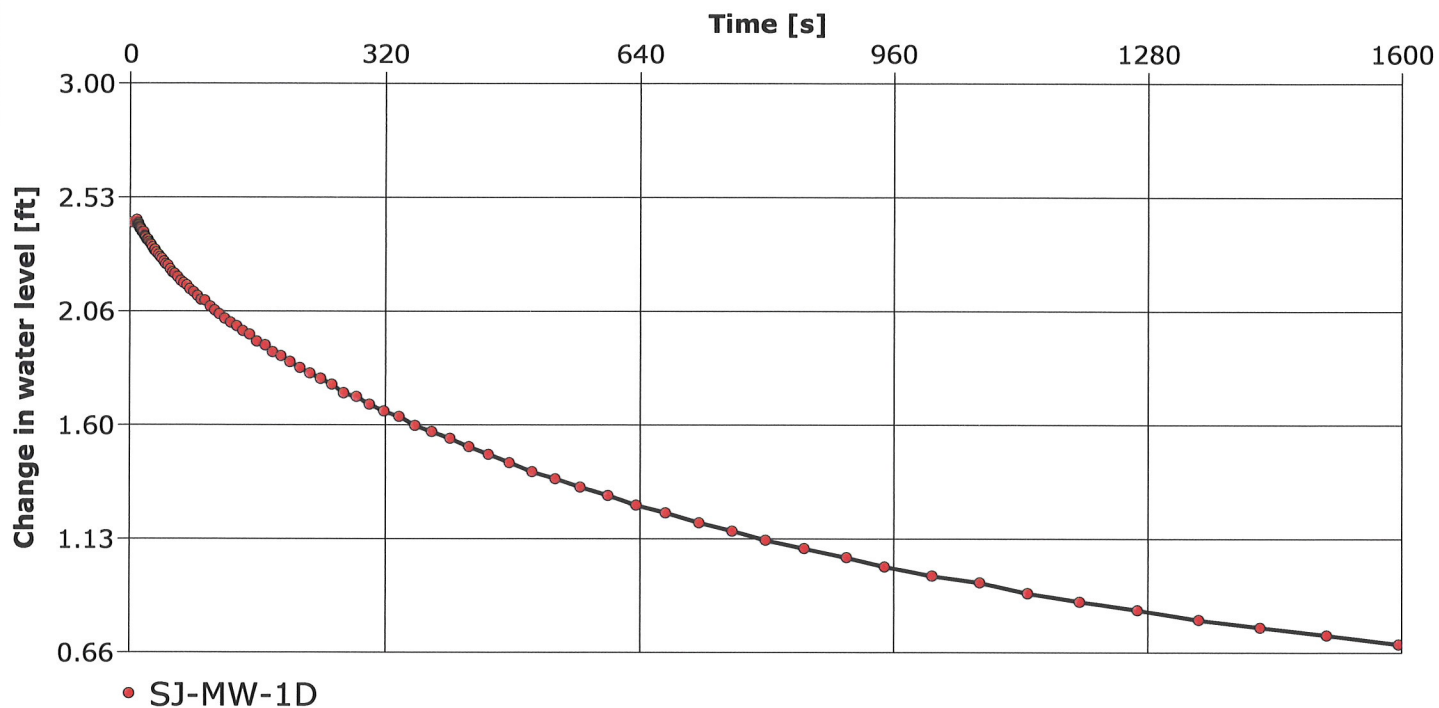
Test Date: 2/23/2017

Analysis Performed by: Jeff Steiner

SJ- MW-1D Slug In Time_Drawdown

Analysis Date: 3/24/2017

Aquifer Thickness: 27.00 ft





Ayres Associates
5201 E. Terrace Drive, Suite 200
Madison, WI 53718

Slug Test Analysis Report

Project: Palatka - 1101 St. John Street

Number: 19-0668.25

Client: City of Palatka

Location: 1101 St. John Street

Slug Test: SJ-MW-1D Slug In

Test Well: SJ-MW-1D

Test Conducted by: Jeff Steiner

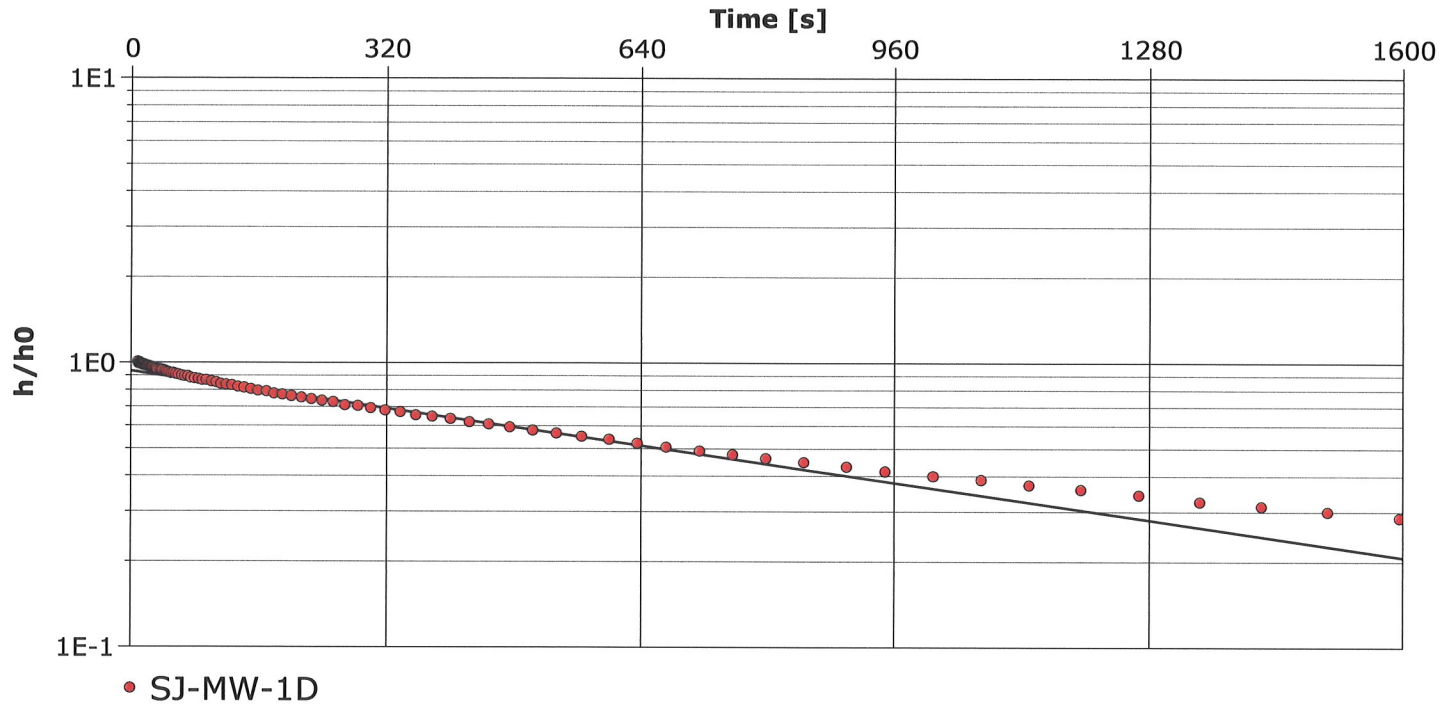
Test Date: 2/23/2017

Analysis Performed by: Jeff Steiner

SJ-MW-1D Slug In Bouwer & Rice

Analysis Date: 3/24/2017

Aquifer Thickness: 27.00 ft



Calculation using Bouwer & Rice

Observation Well	Hydraulic Conductivity [ft/s]	
SJ-MW-1D	2.06×10^{-6}	



Ayres Associates
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Madison, WI 53718

Slug Test Analysis Report

Project: Palatka - 1101 St. John Street

Number: 19-0668.25

Client: City of Palatka

Location: 1101 St. John Street

Slug Test: SJ-MW-1D Slug Out

Test Well: SJ-MW-3

Test Conducted by: Jeff Steiner

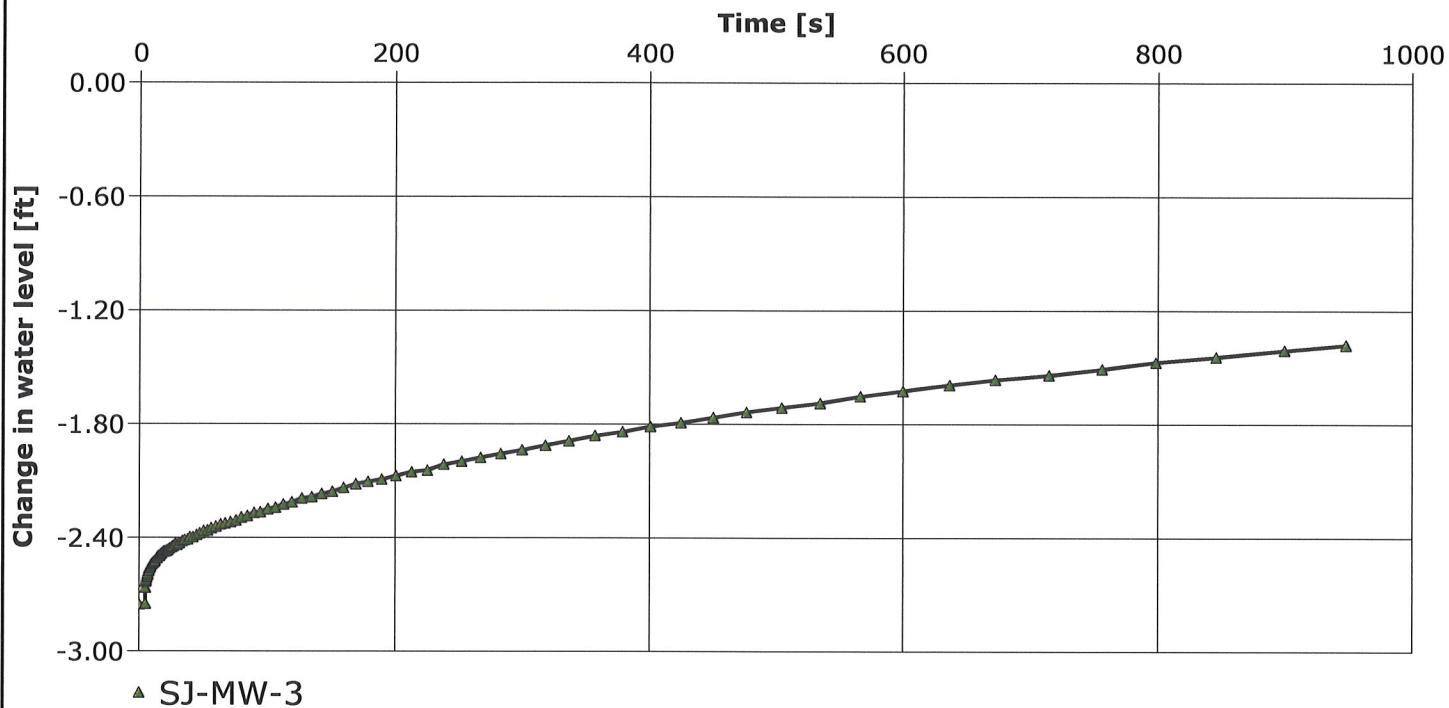
Test Date: 2/23/2017

Analysis Performed by: Jeff Steiner

SJ-MW-1D Slug Out Time_Drawdown

Analysis Date: 3/24/2017

Aquifer Thickness: 27.00 ft





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Madison, WI 53718

Slug Test Analysis Report

Project: Palatka - 1101 St. John Street

Number: 19-0668.25

Client: City of Palatka

Location: 1101 St. John Street

Slug Test: SJ-MW-1D Slug Out

Test Well: SJ-MW-3

Test Conducted by: Jeff Steiner

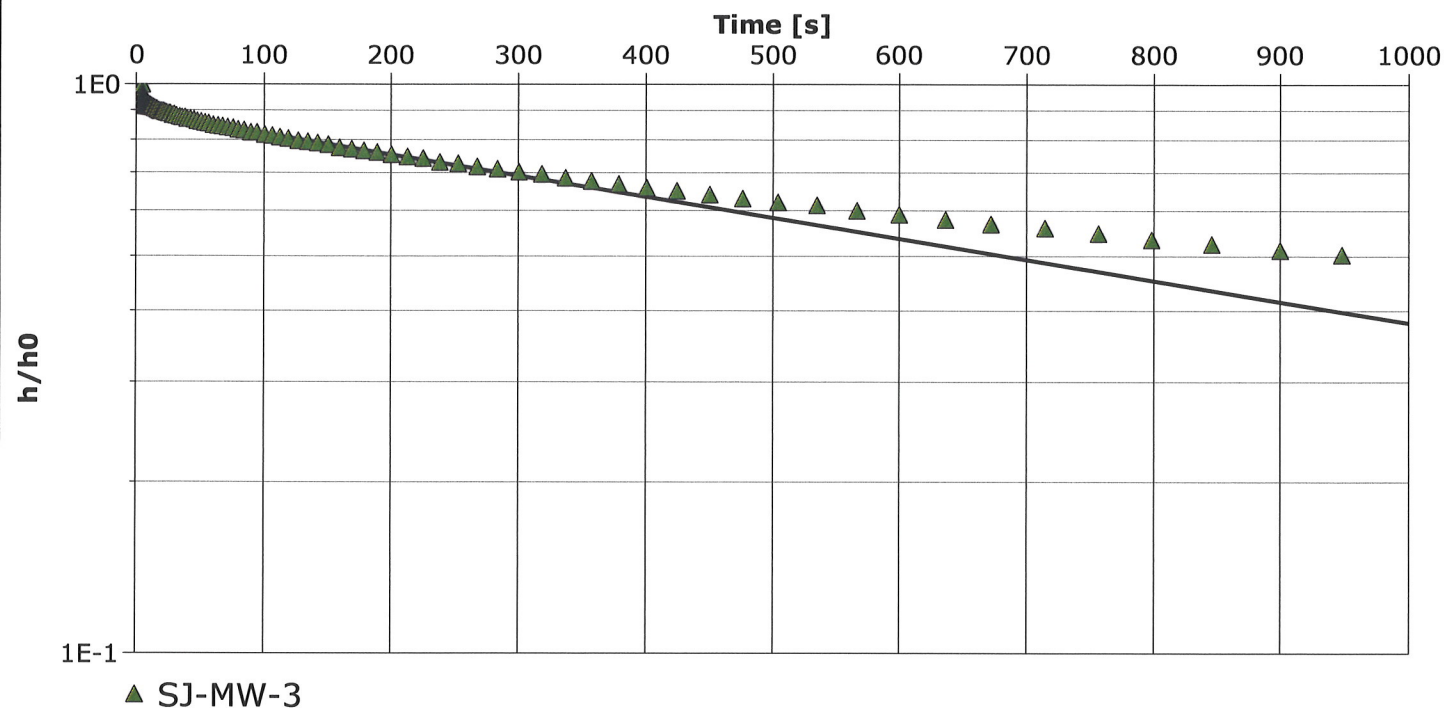
Test Date: 2/23/2017

Analysis Performed by: Jeff Steiner

SJ-MW-1D Slug Out Bouwer & Rice

Analysis Date: 3/24/2017

Aquifer Thickness: 27.00 ft



Calculation using Bouwer & Rice

Observation Well

Hydraulic
Conductivity
[ft/s]

SJ-MW-3

1.25×10^{-6}



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Madison, WI 53718

Slug Test Analysis Report

Project: Palatka - 1101 St. John Street

Number: 19-0668.25

Client: City of Palatka

Location: 1101 St. John Street

Slug Test: SJ-MW-3 Slug Out

Test Well: SJ-MW-3

Test Conducted by: Jeff Steiner

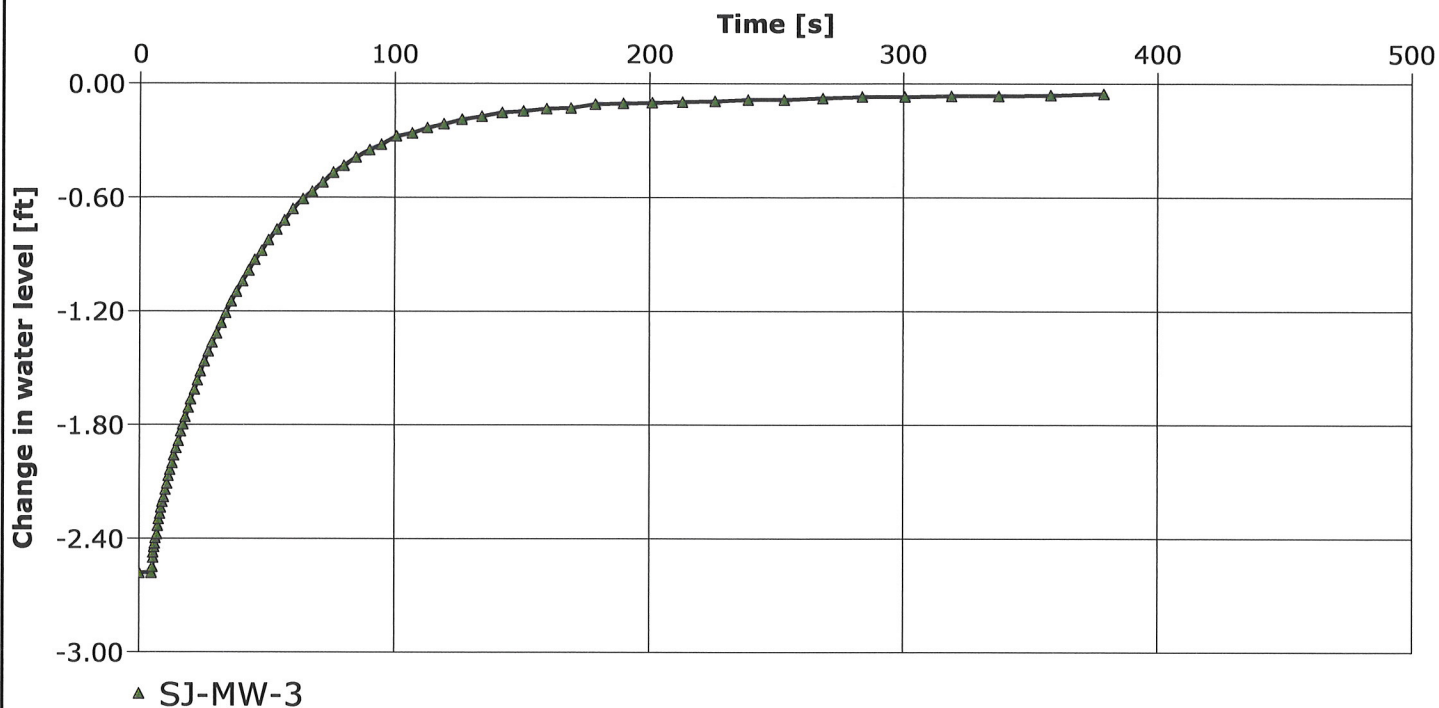
Test Date: 2/23/2017

Analysis Performed by: Jeff Steiner

SJ-MW-3 Slug Out Time_Drawdown

Analysis Date: 3/24/2017

Aquifer Thickness: 9.00 ft





Ayres Associates
5201 E. Terrace Drive, Suite 200
Madison, WI 53718

Slug Test Analysis Report

Project: Palatka - 1101 St. John Street

Number: 19-0668.25

Client: City of Palatka

Location: 1101 St. John Street

Slug Test: SJ-MW-3 Slug Out

Test Well: SJ-MW-3

Test Conducted by: Jeff Steiner

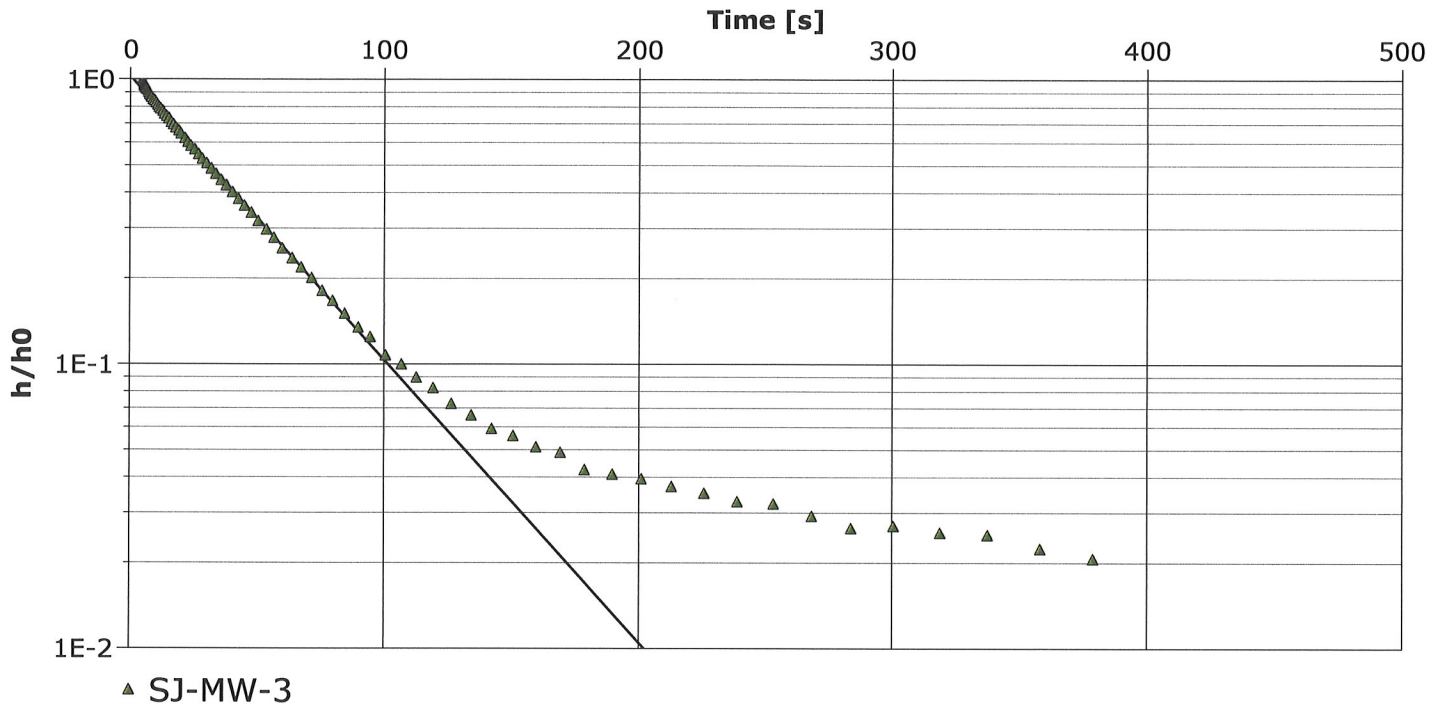
Test Date: 2/23/2017

Analysis Performed by: Jeff Steiner

SJ-MW-3 Slug Out Bouwer & Rice

Analysis Date: 3/24/2017

Aquifer Thickness: 9.00 ft



Calculation using Bouwer & Rice

Observation Well

Hydraulic
Conductivity
[ft/s]

SJ-MW-3

3.35×10^{-5}

Appendix C
Laboratory Analytical Reports for Soil Samples



Advanced Environmental Laboratories, Inc
6681 Southpoint Pkwy Jacksonville, FL 32216
Payments: P.O. Box 551580 Jacksonville, FL 32255-1580
Phone: (904)363-9350
Fax: (904)363-9354

February 28, 2017

Ben Peotter
Ayres Associates
5201 E. Terrace Dr, Suite 200
Madison, WI 53718

RE: Workorder: J1701621 1101 St. Johns Ave

Dear Ben Peotter:

Enclosed are the analytical results for sample(s) received by the laboratory on Tuesday, February 14, 2017. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. The analytical results for the samples contained in this report were submitted for analysis as outlined by the Chain of Custody and results pertain only to these samples.

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

Sincerely,

A handwritten signature in black ink, appearing to read 'Jason Gebhardt', is written over a light blue circular background.

Jason Gebhardt - Lab Manager
JGebhardt@AELLab.com

Enclosures

Report ID: 471297 - 224334

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SAMPLE SUMMARY

Workorder: J1701621 1101 St. Johns Ave

Lab ID	Sample ID	Matrix	Date Collected	Date Received
J1701621001	SJ-MW-1 (0-1)	Soil	2/13/2017 12:05	2/14/2017 12:50
J1701621002	SJ-MW-2 (1-2)	Soil	2/13/2017 12:15	2/14/2017 12:50
J1701621003	SJ-MW-2 (1-2)D	Soil	2/13/2017 12:20	2/14/2017 12:50
J1701621004	SJ-MW-3 (3-4)	Soil	2/13/2017 12:35	2/14/2017 12:50
J1701621005	SJ-MW-4 (1-2)	Soil	2/13/2017 12:45	2/14/2017 12:50
J1701621006	SJ-GP-1 (1-2)	Soil	2/13/2017 12:50	2/14/2017 12:50
J1701621007	SJ-GP-2 (2-3)	Soil	2/13/2017 12:55	2/14/2017 12:50
J1701621008	SJ-GP-3 (1-2)	Soil	2/13/2017 13:05	2/14/2017 12:50
J1701621009	SJ-GP-4 (0-1)	Soil	2/13/2017 13:10	2/14/2017 12:50
J1701621010	SJ-GP-5 (3-4)	Soil	2/13/2017 13:20	2/14/2017 12:50
J1701621011	SJ-GP-6 (2-3)	Soil	2/13/2017 13:25	2/14/2017 12:50

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ANALYTICAL RESULTS

Workorder: J1701621 1101 St. Johns Ave

Lab ID: **J1701621001**

Date Received: 02/14/17 12:50 Matrix: Soil

Sample ID: **SJ-MW-1 (0-1)**

Date Collected: 02/13/17 12:05

Results for sample J1701621001 are reported on a dry weight basis.

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis, Soils			Preparation Method: SW-846 3050B Analytical Method: SW-846 6010					
Arsenic	0.69		mg/Kg	1	0.31	0.28	2/22/2017 17:14	J
Barium	14		mg/Kg	1	0.062	0.035	2/22/2017 17:14	J
Cadmium	0.17	I	mg/Kg	1	0.19	0.039	2/22/2017 17:14	J
Chromium	3.1		mg/Kg	1	0.12	0.074	2/22/2017 17:14	J
Lead	35		mg/Kg	1	0.22	0.063	2/22/2017 17:14	J
Selenium	0.23	U	mg/Kg	1	0.62	0.23	2/22/2017 17:14	J
Silver	0.058	I	mg/Kg	1	0.12	0.037	2/22/2017 17:14	J
Analysis Desc: SW846 7471A Analysis, Soil			Preparation Method: SW-846 7471A Analytical Method: SW-846 7471A					
Mercury	0.024		mg/Kg	1	0.0059	0.00083	2/16/2017 14:08	J
SEMIVOLATILES								
Analysis Desc: 8270D-SIM Analysis, Soil			Preparation Method: SW-846 3550B Analytical Method: SW-846 8270D (SIM)					
1-Methylnaphthalene	0.012	U	mg/Kg	1	0.041	0.012	2/22/2017 21:14	J
2-Methylnaphthalene	0.017	U	mg/Kg	1	0.041	0.017	2/22/2017 21:14	J
Acenaphthene	0.016	U	mg/Kg	1	0.041	0.016	2/22/2017 21:14	J
Acenaphthylene	0.021	U	mg/Kg	1	0.041	0.021	2/22/2017 21:14	J
Anthracene	0.022	U	mg/Kg	1	0.041	0.022	2/22/2017 21:14	J
Benzo[a]anthracene	0.12		mg/Kg	1	0.041	0.017	2/22/2017 21:14	J
Benzo[a]pyrene	0.19		mg/Kg	1	0.041	0.036	2/22/2017 21:14	J
Benzo[b]fluoranthene	0.28		mg/Kg	1	0.041	0.026	2/22/2017 21:14	J
Benzo[g,h,i]perylene	0.20		mg/Kg	1	0.041	0.029	2/22/2017 21:14	J
Benzo[k]fluoranthene	0.12		mg/Kg	1	0.041	0.027	2/22/2017 21:14	J
Chrysene	0.22		mg/Kg	1	0.041	0.021	2/22/2017 21:14	J
Dibenzo[a,h]anthracene	0.045		mg/Kg	1	0.041	0.020	2/22/2017 21:14	J
Fluoranthene	0.25		mg/Kg	1	0.041	0.027	2/22/2017 21:14	J
Fluorene	0.018	U	mg/Kg	1	0.041	0.018	2/22/2017 21:14	J
Indeno(1,2,3-cd)pyrene	0.20		mg/Kg	1	0.041	0.021	2/22/2017 21:14	J
Naphthalene	0.013	U	mg/Kg	1	0.041	0.013	2/22/2017 21:14	J
Phenanthrene	0.034	I	mg/Kg	1	0.041	0.017	2/22/2017 21:14	J
Pyrene	0.21		mg/Kg	1	0.041	0.015	2/22/2017 21:14	J
Nitrobenzene-d5 (S)	76		%	1	33-134		2/22/2017 21:14	
2-Fluorobiphenyl (S)	79		%	1	37-127		2/22/2017 21:14	

Report ID: 471297 - 224334

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ANALYTICAL RESULTS

Workorder: J1701621 1101 St. Johns Ave

Lab ID: **J1701621001**

Date Received: 02/14/17 12:50 Matrix: Soil

Sample ID: **SJ-MW-1 (0-1)**

Date Collected: 02/13/17 12:05

Results for sample J1701621001 are reported on a dry weight basis.

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
p-Terphenyl-d14 (S)	98		%	1	42-141		2/22/2017 21:14	

VOLATILES

Analysis Desc: 8260C Analysis, Soil

Preparation Method: SW-846 5035

Analytical Method: SW-846 8260C

1,1,1,2-Tetrachloroethane	2.5	U	ug/Kg	1	4.9	2.5	2/21/2017 18:59	J
1,1,1-Trichloroethane	2.3	U	ug/Kg	1	4.9	2.3	2/21/2017 18:59	J
1,1,2,2-Tetrachloroethane	3.2	U	ug/Kg	1	4.9	3.2	2/21/2017 18:59	J
1,1,2-Trichloroethane	2.2	U	ug/Kg	1	4.9	2.2	2/21/2017 18:59	J
1,1-Dichloroethane	2.1	U	ug/Kg	1	4.9	2.1	2/21/2017 18:59	J
1,1-Dichloroethylene	2.0	U	ug/Kg	1	4.9	2.0	2/21/2017 18:59	J
1,1-Dichloropropene	1.7	U	ug/Kg	1	4.9	1.7	2/21/2017 18:59	J
1,2,3-Trichlorobenzene	2.3	U	ug/Kg	1	4.9	2.3	2/21/2017 18:59	J
1,2,3-Trichloropropane	2.2	U	ug/Kg	1	4.9	2.2	2/21/2017 18:59	J
1,2,4-Trichlorobenzene	2.3	U	ug/Kg	1	4.9	2.3	2/21/2017 18:59	J
1,2,4-Trimethylbenzene	1.7	U,J4	ug/Kg	1	4.9	1.7	2/21/2017 18:59	J
1,2-Dibromo-3-Chloropropane	6.4	U	ug/Kg	1	8.2	6.4	2/21/2017 18:59	J
1,2-Dichlorobenzene	2.2	U,J4	ug/Kg	1	4.9	2.2	2/21/2017 18:59	J
1,2-Dichloroethane	2.3	U	ug/Kg	1	4.9	2.3	2/21/2017 18:59	J
1,2-Dichloropropane	2.0	U	ug/Kg	1	4.9	2.0	2/21/2017 18:59	J
1,3,5-Trimethylbenzene	1.6	U	ug/Kg	1	4.9	1.6	2/21/2017 18:59	J
1,3-Dichlorobenzene	2.1	U,J4	ug/Kg	1	4.9	2.1	2/21/2017 18:59	J
1,3-Dichloropropane	2.6	U	ug/Kg	1	4.9	2.6	2/21/2017 18:59	J
1,4-Dichlorobenzene	1.9	U	ug/Kg	1	4.9	1.9	2/21/2017 18:59	J
2,2-Dichloropropane	1.6	U	ug/Kg	1	8.2	1.6	2/21/2017 18:59	J
2-Butanone (MEK)	3.4	U	ug/Kg	1	8.2	3.4	2/21/2017 18:59	J
2-Chlorotoluene	1.7	U	ug/Kg	1	4.9	1.7	2/21/2017 18:59	J
2-Hexanone	3.0	U	ug/Kg	1	8.2	3.0	2/21/2017 18:59	J
4-Chlorotoluene	2.0	U	ug/Kg	1	4.9	2.0	2/21/2017 18:59	J
4-Methyl-2-pentanone (MIBK)	1.7	U	ug/Kg	1	8.2	1.7	2/21/2017 18:59	J
Acetone	4.1	U	ug/Kg	1	16	4.1	2/21/2017 18:59	J
Benzene	2.0	U	ug/Kg	1	4.9	2.0	2/21/2017 18:59	J
Bromobenzene	2.0	U	ug/Kg	1	4.9	2.0	2/21/2017 18:59	J
Bromodichloromethane	2.2	U	ug/Kg	1	4.9	2.2	2/21/2017 18:59	J
Bromoform	3.2	U	ug/Kg	1	8.2	3.2	2/21/2017 18:59	J
Bromomethane	2.1	U	ug/Kg	1	4.9	2.1	2/21/2017 18:59	J
Carbon Disulfide	2.0	U	ug/Kg	1	8.2	2.0	2/21/2017 18:59	J
Carbon Tetrachloride	2.3	U	ug/Kg	1	4.9	2.3	2/21/2017 18:59	J
Chlorobenzene	2.4	U,J4	ug/Kg	1	4.9	2.4	2/21/2017 18:59	J

Report ID: 471297 - 224334

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ANALYTICAL RESULTS

Workorder: J1701621 1101 St. Johns Ave

Lab ID: **J1701621001**

Date Received: 02/14/17 12:50 Matrix: Soil

Sample ID: **SJ-MW-1 (0-1)**

Date Collected: 02/13/17 12:05

Results for sample J1701621001 are reported on a dry weight basis.

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Chloroethane	1.6	U	ug/Kg	1	4.9	1.6	2/21/2017 18:59	J
Chloroform	2.1	U	ug/Kg	1	4.9	2.1	2/21/2017 18:59	J
Chloromethane	1.7	U	ug/Kg	1	4.9	1.7	2/21/2017 18:59	J
Dibromochloromethane	2.1	U	ug/Kg	1	4.9	2.1	2/21/2017 18:59	J
Dichlorodifluoromethane	1.4	U	ug/Kg	1	4.9	1.4	2/21/2017 18:59	J
Ethylbenzene	1.8	U,J4	ug/Kg	1	4.9	1.8	2/21/2017 18:59	J
Ethylene Dibromide (EDB)	2.2	U	ug/Kg	1	4.9	2.2	2/21/2017 18:59	J
Hexachlorobutadiene	2.6	U	ug/Kg	1	4.9	2.6	2/21/2017 18:59	J
Isopropylbenzene	2.0	U	ug/Kg	1	4.9	2.0	2/21/2017 18:59	J
Methyl tert-butyl Ether (MTBE)	1.8	U	ug/Kg	1	4.9	1.8	2/21/2017 18:59	J
Methylene Chloride	4.6	U	ug/Kg	1	16	4.6	2/21/2017 18:59	J
Naphthalene	2.8	U	ug/Kg	1	4.9	2.8	2/21/2017 18:59	J
Styrene	1.6	U	ug/Kg	1	4.9	1.6	2/21/2017 18:59	J
Tetrachloroethylene (PCE)	2.0	U,J4	ug/Kg	1	4.9	2.0	2/21/2017 18:59	J
Toluene	2.3	U	ug/Kg	1	4.9	2.3	2/21/2017 18:59	J
Trichloroethene	1.7	U,J4	ug/Kg	1	4.9	1.7	2/21/2017 18:59	J
Trichlorofluoromethane	1.5	U	ug/Kg	1	4.9	1.5	2/21/2017 18:59	J
Vinyl Chloride	2.0	U	ug/Kg	1	4.9	2.0	2/21/2017 18:59	J
Xylene (Total)	6.2	U	ug/Kg	1	15	6.2	2/21/2017 18:59	J
cis-1,2-Dichloroethylene	2.3	U	ug/Kg	1	4.9	2.3	2/21/2017 18:59	J
cis-1,3-Dichloropropene	1.7	U	ug/Kg	1	4.9	1.7	2/21/2017 18:59	J
n-Butylbenzene	1.8	U	ug/Kg	1	4.9	1.8	2/21/2017 18:59	J
n-propylbenzene	1.8	U	ug/Kg	1	4.9	1.8	2/21/2017 18:59	J
p-Isopropyltoluene	2.1	U	ug/Kg	1	4.9	2.1	2/21/2017 18:59	J
sec-butylbenzene	1.8	U	ug/Kg	1	4.9	1.8	2/21/2017 18:59	J
tert-butylbenzene	1.8	U	ug/Kg	1	4.9	1.8	2/21/2017 18:59	J
trans-1,2-Dichloroethylene	1.6	U	ug/Kg	1	4.9	1.6	2/21/2017 18:59	J
trans-1,3-Dichloropropylene	1.2	U	ug/Kg	1	4.9	1.2	2/21/2017 18:59	J
1,2-Dichloroethane-d4 (S)	102		%	1	69-134		2/21/2017 18:59	
Toluene-d8 (S)	103		%	1	72-122		2/21/2017 18:59	
Bromofluorobenzene (S)	94		%	1	79-126		2/21/2017 18:59	

VOLATILES

Analysis Desc: Percent
Solids,SM2540G,Soil

Analytical Method: SM 2540G

Percent Moisture	20	%	1		2/22/2017 16:00	J
------------------	----	---	---	--	-----------------	---

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ANALYTICAL RESULTS

Workorder: J1701621 1101 St. Johns Ave

Lab ID: **J1701621002** Date Received: 02/14/17 12:50 Matrix: Soil
Sample ID: **SJ-MW-2 (1-2)** Date Collected: 02/13/17 12:15

Results for sample J1701621002 are reported on a dry weight basis.

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis, Soils			Preparation Method: SW-846 3050B					
			Analytical Method: SW-846 6010					
Arsenic	0.88		mg/Kg	1	0.27	0.24	2/22/2017 17:19	J
Barium	20		mg/Kg	1	0.053	0.030	2/22/2017 17:19	J
Cadmium	0.12	I	mg/Kg	1	0.16	0.033	2/22/2017 17:19	J
Chromium	3.0		mg/Kg	1	0.11	0.063	2/22/2017 17:19	J
Lead	170		mg/Kg	1	0.19	0.054	2/22/2017 17:19	J
Selenium	0.20	U	mg/Kg	1	0.53	0.20	2/22/2017 17:19	J
Silver	0.032	U	mg/Kg	1	0.11	0.032	2/22/2017 17:19	J
Analysis Desc: SW846 7471A Analysis, Soil			Preparation Method: SW-846 7471A					
			Analytical Method: SW-846 7471A					
Mercury	0.090		mg/Kg	1	0.0051	0.00071	2/16/2017 14:21	J
SEMIVOLATILES								
Analysis Desc: 8270D-SIM Analysis, Soil			Preparation Method: SW-846 3550B					
			Analytical Method: SW-846 8270D (SIM)					
1-Methylnaphthalene	0.010	U	mg/Kg	1	0.035	0.010	2/22/2017 20:46	J
2-Methylnaphthalene	0.014	U	mg/Kg	1	0.035	0.014	2/22/2017 20:46	J
Acenaphthene	0.014	U	mg/Kg	1	0.035	0.014	2/22/2017 20:46	J
Acenaphthylene	0.018	U	mg/Kg	1	0.035	0.018	2/22/2017 20:46	J
Anthracene	0.019	U	mg/Kg	1	0.035	0.019	2/22/2017 20:46	J
Benzo[a]anthracene	0.015	U	mg/Kg	1	0.035	0.015	2/22/2017 20:46	J
Benzo[a]pyrene	0.031	U	mg/Kg	1	0.035	0.031	2/22/2017 20:46	J
Benzo[b]fluoranthene	0.034	I	mg/Kg	1	0.035	0.022	2/22/2017 20:46	J
Benzo[g,h,i]perylene	0.025	I	mg/Kg	1	0.035	0.025	2/22/2017 20:46	J
Benzo[k]fluoranthene	0.023	U	mg/Kg	1	0.035	0.023	2/22/2017 20:46	J
Chrysene	0.027	I	mg/Kg	1	0.035	0.018	2/22/2017 20:46	J
Dibenzo[a,h]anthracene	0.017	U	mg/Kg	1	0.035	0.017	2/22/2017 20:46	J
Fluoranthene	0.034	I	mg/Kg	1	0.035	0.023	2/22/2017 20:46	J
Fluorene	0.015	U	mg/Kg	1	0.035	0.015	2/22/2017 20:46	J
Indeno(1,2,3-cd)pyrene	0.020	I	mg/Kg	1	0.035	0.018	2/22/2017 20:46	J
Naphthalene	0.011	U	mg/Kg	1	0.035	0.011	2/22/2017 20:46	J
Phenanthrene	0.014	U	mg/Kg	1	0.035	0.014	2/22/2017 20:46	J
Pyrene	0.032	I	mg/Kg	1	0.035	0.013	2/22/2017 20:46	J
Nitrobenzene-d5 (S)	78		%	1	33-134		2/22/2017 20:46	
2-Fluorobiphenyl (S)	78		%	1	37-127		2/22/2017 20:46	

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ANALYTICAL RESULTS

Workorder: J1701621 1101 St. Johns Ave

Lab ID: **J1701621002**

Date Received: 02/14/17 12:50 Matrix: Soil

Sample ID: **SJ-MW-2 (1-2)**

Date Collected: 02/13/17 12:15

Results for sample J1701621002 are reported on a dry weight basis.

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
p-Terphenyl-d14 (S)	100		%	1	42-141		2/22/2017 20:46	

VOLATILES

Analysis Desc: 8260C Analysis, Soil

Preparation Method: SW-846 5035

Analytical Method: SW-846 8260C

1,1,1,2-Tetrachloroethane	2.0	U	ug/Kg	1	4.0	2.0	2/21/2017 19:27	J
1,1,1-Trichloroethane	1.9	U	ug/Kg	1	4.0	1.9	2/21/2017 19:27	J
1,1,2,2-Tetrachloroethane	2.6	U	ug/Kg	1	4.0	2.6	2/21/2017 19:27	J
1,1,2-Trichloroethane	1.8	U	ug/Kg	1	4.0	1.8	2/21/2017 19:27	J
1,1-Dichloroethane	1.7	U	ug/Kg	1	4.0	1.7	2/21/2017 19:27	J
1,1-Dichloroethylene	1.6	U	ug/Kg	1	4.0	1.6	2/21/2017 19:27	J
1,1-Dichloropropene	1.4	U	ug/Kg	1	4.0	1.4	2/21/2017 19:27	J
1,2,3-Trichlorobenzene	1.8	U	ug/Kg	1	4.0	1.8	2/21/2017 19:27	J
1,2,3-Trichloropropane	1.8	U	ug/Kg	1	4.0	1.8	2/21/2017 19:27	J
1,2,4-Trichlorobenzene	1.9	U	ug/Kg	1	4.0	1.9	2/21/2017 19:27	J
1,2,4-Trimethylbenzene	1.4	U	ug/Kg	1	4.0	1.4	2/21/2017 19:27	J
1,2-Dibromo-3-Chloropropane	5.3	U	ug/Kg	1	6.7	5.3	2/21/2017 19:27	J
1,2-Dichlorobenzene	1.8	U	ug/Kg	1	4.0	1.8	2/21/2017 19:27	J
1,2-Dichloroethane	1.9	U	ug/Kg	1	4.0	1.9	2/21/2017 19:27	J
1,2-Dichloropropane	1.6	U	ug/Kg	1	4.0	1.6	2/21/2017 19:27	J
1,3,5-Trimethylbenzene	1.3	U	ug/Kg	1	4.0	1.3	2/21/2017 19:27	J
1,3-Dichlorobenzene	1.7	U	ug/Kg	1	4.0	1.7	2/21/2017 19:27	J
1,3-Dichloropropane	2.2	U	ug/Kg	1	4.0	2.2	2/21/2017 19:27	J
1,4-Dichlorobenzene	1.5	U	ug/Kg	1	4.0	1.5	2/21/2017 19:27	J
2,2-Dichloropropane	1.3	U	ug/Kg	1	6.7	1.3	2/21/2017 19:27	J
2-Butanone (MEK)	2.8	U	ug/Kg	1	6.7	2.8	2/21/2017 19:27	J
2-Chlorotoluene	1.4	U	ug/Kg	1	4.0	1.4	2/21/2017 19:27	J
2-Hexanone	2.5	U	ug/Kg	1	6.7	2.5	2/21/2017 19:27	J
4-Chlorotoluene	1.6	U	ug/Kg	1	4.0	1.6	2/21/2017 19:27	J
4-Methyl-2-pentanone (MIBK)	1.4	U	ug/Kg	1	6.7	1.4	2/21/2017 19:27	J
Acetone	3.3	U	ug/Kg	1	13	3.3	2/21/2017 19:27	J
Benzene	1.6	U	ug/Kg	1	4.0	1.6	2/21/2017 19:27	J
Bromobenzene	1.6	U	ug/Kg	1	4.0	1.6	2/21/2017 19:27	J
Bromodichloromethane	1.8	U	ug/Kg	1	4.0	1.8	2/21/2017 19:27	J
Bromoform	2.6	U	ug/Kg	1	6.7	2.6	2/21/2017 19:27	J
Bromomethane	1.7	U	ug/Kg	1	4.0	1.7	2/21/2017 19:27	J
Carbon Disulfide	1.6	U	ug/Kg	1	6.7	1.6	2/21/2017 19:27	J
Carbon Tetrachloride	1.9	U	ug/Kg	1	4.0	1.9	2/21/2017 19:27	J
Chlorobenzene	1.9	U	ug/Kg	1	4.0	1.9	2/21/2017 19:27	J

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ANALYTICAL RESULTS

Workorder: J1701621 1101 St. Johns Ave

Lab ID: **J1701621002**

Date Received: 02/14/17 12:50 Matrix: Soil

Sample ID: **SJ-MW-2 (1-2)**

Date Collected: 02/13/17 12:15

Results for sample J1701621002 are reported on a dry weight basis.

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Chloroethane	1.3	U	ug/Kg	1	4.0	1.3	2/21/2017 19:27	J
Chloroform	1.7	U	ug/Kg	1	4.0	1.7	2/21/2017 19:27	J
Chloromethane	1.4	U	ug/Kg	1	4.0	1.4	2/21/2017 19:27	J
Dibromochloromethane	1.7	U	ug/Kg	1	4.0	1.7	2/21/2017 19:27	J
Dichlorodifluoromethane	1.1	U	ug/Kg	1	4.0	1.1	2/21/2017 19:27	J
Ethylbenzene	1.5	U	ug/Kg	1	4.0	1.5	2/21/2017 19:27	J
Ethylene Dibromide (EDB)	1.8	U	ug/Kg	1	4.0	1.8	2/21/2017 19:27	J
Hexachlorobutadiene	2.2	U	ug/Kg	1	4.0	2.2	2/21/2017 19:27	J
Isopropylbenzene	1.7	U	ug/Kg	1	4.0	1.7	2/21/2017 19:27	J
Methyl tert-butyl Ether (MTBE)	1.5	U	ug/Kg	1	4.0	1.5	2/21/2017 19:27	J
Methylene Chloride	3.7	U	ug/Kg	1	13	3.7	2/21/2017 19:27	J
Naphthalene	2.3	U	ug/Kg	1	4.0	2.3	2/21/2017 19:27	J
Styrene	1.3	U	ug/Kg	1	4.0	1.3	2/21/2017 19:27	J
Tetrachloroethylene (PCE)	1.6	U	ug/Kg	1	4.0	1.6	2/21/2017 19:27	J
Toluene	1.8	U	ug/Kg	1	4.0	1.8	2/21/2017 19:27	J
Trichloroethene	1.4	U	ug/Kg	1	4.0	1.4	2/21/2017 19:27	J
Trichlorofluoromethane	1.2	U	ug/Kg	1	4.0	1.2	2/21/2017 19:27	J
Vinyl Chloride	1.6	U	ug/Kg	1	4.0	1.6	2/21/2017 19:27	J
Xylene (Total)	5.1	U	ug/Kg	1	12	5.1	2/21/2017 19:27	J
cis-1,2-Dichloroethylene	1.9	U	ug/Kg	1	4.0	1.9	2/21/2017 19:27	J
cis-1,3-Dichloropropene	1.4	U	ug/Kg	1	4.0	1.4	2/21/2017 19:27	J
n-Butylbenzene	1.4	U	ug/Kg	1	4.0	1.4	2/21/2017 19:27	J
n-propylbenzene	1.5	U	ug/Kg	1	4.0	1.5	2/21/2017 19:27	J
p-Isopropyltoluene	1.7	U	ug/Kg	1	4.0	1.7	2/21/2017 19:27	J
sec-butylbenzene	1.5	U	ug/Kg	1	4.0	1.5	2/21/2017 19:27	J
tert-butylbenzene	1.5	U	ug/Kg	1	4.0	1.5	2/21/2017 19:27	J
trans-1,2-Dichloroethylene	1.3	U	ug/Kg	1	4.0	1.3	2/21/2017 19:27	J
trans-1,3-Dichloropropylene	1.0	U	ug/Kg	1	4.0	1.0	2/21/2017 19:27	J
1,2-Dichloroethane-d4 (S)	104		%	1	69-134		2/21/2017 19:27	
Toluene-d8 (S)	101		%	1	72-122		2/21/2017 19:27	
Bromofluorobenzene (S)	94		%	1	79-126		2/21/2017 19:27	

VOLATILES

Analysis Desc: Percent
Solids, SM2540G, Soil

Analytical Method: SM 2540G

Percent Moisture	6.2	%	1			2/22/2017 16:00	J
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ANALYTICAL RESULTS

Workorder: J1701621 1101 St. Johns Ave

Lab ID: **J1701621003** Date Received: 02/14/17 12:50 Matrix: Soil
Sample ID: **SJ-MW-2 (1-2)D** Date Collected: 02/13/17 12:20

Results for sample J1701621003 are reported on a dry weight basis.

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
SEMIVOLATILES								
Analysis Desc: 8270D-SIM Analysis, Soil			Preparation Method: SW-846 3550B					
			Analytical Method: SW-846 8270D (SIM)					
1-Methylnaphthalene	0.010	U	mg/Kg	1	0.035	0.010	2/22/2017 20:17	J
2-Methylnaphthalene	0.014	U	mg/Kg	1	0.035	0.014	2/22/2017 20:17	J
Acenaphthene	0.014	U	mg/Kg	1	0.035	0.014	2/22/2017 20:17	J
Acenaphthylene	0.018	U	mg/Kg	1	0.035	0.018	2/22/2017 20:17	J
Anthracene	0.019	U	mg/Kg	1	0.035	0.019	2/22/2017 20:17	J
Benzo[a]anthracene	0.015	U	mg/Kg	1	0.035	0.015	2/22/2017 20:17	J
Benzo[a]pyrene	0.031	U	mg/Kg	1	0.035	0.031	2/22/2017 20:17	J
Benzo[b]fluoranthene	0.031	I	mg/Kg	1	0.035	0.022	2/22/2017 20:17	J
Benzo[g,h,i]perylene	0.040		mg/Kg	1	0.035	0.025	2/22/2017 20:17	J
Benzo[k]fluoranthene	0.023	U	mg/Kg	1	0.035	0.023	2/22/2017 20:17	J
Chrysene	0.025	I	mg/Kg	1	0.035	0.018	2/22/2017 20:17	J
Dibenzo[a,h]anthracene	0.017	U	mg/Kg	1	0.035	0.017	2/22/2017 20:17	J
Fluoranthene	0.025	I	mg/Kg	1	0.035	0.023	2/22/2017 20:17	J
Fluorene	0.015	U	mg/Kg	1	0.035	0.015	2/22/2017 20:17	J
Indeno(1,2,3-cd)pyrene	0.020	I	mg/Kg	1	0.035	0.018	2/22/2017 20:17	J
Naphthalene	0.011	U	mg/Kg	1	0.035	0.011	2/22/2017 20:17	J
Phenanthrene	0.014	U	mg/Kg	1	0.035	0.014	2/22/2017 20:17	J
Pyrene	0.025	I	mg/Kg	1	0.035	0.013	2/22/2017 20:17	J
Nitrobenzene-d5 (S)	67		%	1	33-134		2/22/2017 20:17	
2-Fluorobiphenyl (S)	71		%	1	37-127		2/22/2017 20:17	
p-Terphenyl-d14 (S)	99		%	1	42-141		2/22/2017 20:17	

SEMIVOLATILES

Analysis Desc: Percent Solids, SM2540G, Soil			Analytical Method: SM 2540G					
Percent Moisture	5.3		%	1			2/22/2017 16:00	J

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ANALYTICAL RESULTS

Workorder: J1701621 1101 St. Johns Ave

Lab ID: **J1701621004**

Date Received: 02/14/17 12:50 Matrix: Soil

Sample ID: **SJ-MW-3 (3-4)**

Date Collected: 02/13/17 12:35

Results for sample J1701621004 are reported on a dry weight basis.

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis, Soils			Preparation Method: SW-846 3050B					
			Analytical Method: SW-846 6010					
Arsenic	0.23	U	mg/Kg	1	0.26	0.23	2/22/2017 17:23	J
Barium	3.7		mg/Kg	1	0.051	0.029	2/22/2017 17:23	J
Cadmium	0.032	U	mg/Kg	1	0.15	0.032	2/22/2017 17:23	J
Chromium	0.35		mg/Kg	1	0.10	0.061	2/22/2017 17:23	J
Lead	3.5		mg/Kg	1	0.18	0.052	2/22/2017 17:23	J
Selenium	0.19	U	mg/Kg	1	0.51	0.19	2/22/2017 17:23	J
Silver	0.030	U	mg/Kg	1	0.10	0.030	2/22/2017 17:23	J
Analysis Desc: SW846 7471A Analysis, Soil			Preparation Method: SW-846 7471A					
			Analytical Method: SW-846 7471A					
Mercury	0.0033	I	mg/Kg	1	0.0049	0.00069	2/16/2017 14:14	J
SEMIVOLATILES								
Analysis Desc: 8270D-SIM Analysis, Soil			Preparation Method: SW-846 3550B					
			Analytical Method: SW-846 8270D (SIM)					
1-Methylnaphthalene	0.0097	U	mg/Kg	1	0.034	0.0097	2/22/2017 19:49	J
2-Methylnaphthalene	0.014	U	mg/Kg	1	0.034	0.014	2/22/2017 19:49	J
Acenaphthene	0.013	U	mg/Kg	1	0.034	0.013	2/22/2017 19:49	J
Acenaphthylene	0.017	U	mg/Kg	1	0.034	0.017	2/22/2017 19:49	J
Anthracene	0.018	U	mg/Kg	1	0.034	0.018	2/22/2017 19:49	J
Benzo[a]anthracene	0.014	U	mg/Kg	1	0.034	0.014	2/22/2017 19:49	J
Benzo[a]pyrene	0.030	U	mg/Kg	1	0.034	0.030	2/22/2017 19:49	J
Benzo[b]fluoranthene	0.021	U	mg/Kg	1	0.034	0.021	2/22/2017 19:49	J
Benzo[g,h,i]perylene	0.024	U	mg/Kg	1	0.034	0.024	2/22/2017 19:49	J
Benzo[k]fluoranthene	0.022	U	mg/Kg	1	0.034	0.022	2/22/2017 19:49	J
Chrysene	0.018	U	mg/Kg	1	0.034	0.018	2/22/2017 19:49	J
Dibenzo[a,h]anthracene	0.016	U	mg/Kg	1	0.034	0.016	2/22/2017 19:49	J
Fluoranthene	0.022	U	mg/Kg	1	0.034	0.022	2/22/2017 19:49	J
Fluorene	0.015	U	mg/Kg	1	0.034	0.015	2/22/2017 19:49	J
Indeno(1,2,3-cd)pyrene	0.018	U	mg/Kg	1	0.034	0.018	2/22/2017 19:49	J
Naphthalene	0.011	U	mg/Kg	1	0.034	0.011	2/22/2017 19:49	J
Phenanthrene	0.014	U	mg/Kg	1	0.034	0.014	2/22/2017 19:49	J
Pyrene	0.012	U	mg/Kg	1	0.034	0.012	2/22/2017 19:49	J
Nitrobenzene-d5 (S)	62		%	1	33-134		2/22/2017 19:49	
2-Fluorobiphenyl (S)	65		%	1	37-127		2/22/2017 19:49	

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ANALYTICAL RESULTS

Workorder: J1701621 1101 St. Johns Ave

Lab ID: **J1701621004**

Date Received: 02/14/17 12:50 Matrix: Soil

Sample ID: **SJ-MW-3 (3-4)**

Date Collected: 02/13/17 12:35

Results for sample J1701621004 are reported on a dry weight basis.

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
p-Terphenyl-d14 (S)	98		%	1	42-141		2/22/2017 19:49	

VOLATILES

Analysis Desc: 8260C Analysis, Soil

Preparation Method: SW-846 5035

Analytical Method: SW-846 8260C

1,1,1,2-Tetrachloroethane	2.3	U	ug/Kg	1	4.4	2.3	2/21/2017 19:54	J
1,1,1-Trichloroethane	2.0	U	ug/Kg	1	4.4	2.0	2/21/2017 19:54	J
1,1,2,2-Tetrachloroethane	2.9	U	ug/Kg	1	4.4	2.9	2/21/2017 19:54	J
1,1,2-Trichloroethane	2.0	U	ug/Kg	1	4.4	2.0	2/21/2017 19:54	J
1,1-Dichloroethane	1.9	U	ug/Kg	1	4.4	1.9	2/21/2017 19:54	J
1,1-Dichloroethylene	1.8	U	ug/Kg	1	4.4	1.8	2/21/2017 19:54	J
1,1-Dichloropropene	1.6	U	ug/Kg	1	4.4	1.6	2/21/2017 19:54	J
1,2,3-Trichlorobenzene	2.0	U	ug/Kg	1	4.4	2.0	2/21/2017 19:54	J
1,2,3-Trichloropropane	2.0	U	ug/Kg	1	4.4	2.0	2/21/2017 19:54	J
1,2,4-Trichlorobenzene	2.1	U	ug/Kg	1	4.4	2.1	2/21/2017 19:54	J
1,2,4-Trimethylbenzene	1.5	U	ug/Kg	1	4.4	1.5	2/21/2017 19:54	J
1,2-Dibromo-3-Chloropropane	5.8	U	ug/Kg	1	7.4	5.8	2/21/2017 19:54	J
1,2-Dichlorobenzene	2.0	U	ug/Kg	1	4.4	2.0	2/21/2017 19:54	J
1,2-Dichloroethane	2.1	U	ug/Kg	1	4.4	2.1	2/21/2017 19:54	J
1,2-Dichloropropane	1.8	U	ug/Kg	1	4.4	1.8	2/21/2017 19:54	J
1,3,5-Trimethylbenzene	1.5	U	ug/Kg	1	4.4	1.5	2/21/2017 19:54	J
1,3-Dichlorobenzene	1.9	U	ug/Kg	1	4.4	1.9	2/21/2017 19:54	J
1,3-Dichloropropane	2.4	U	ug/Kg	1	4.4	2.4	2/21/2017 19:54	J
1,4-Dichlorobenzene	1.7	U	ug/Kg	1	4.4	1.7	2/21/2017 19:54	J
2,2-Dichloropropane	1.4	U	ug/Kg	1	7.4	1.4	2/21/2017 19:54	J
2-Butanone (MEK)	3.1	U	ug/Kg	1	7.4	3.1	2/21/2017 19:54	J
2-Chlorotoluene	1.5	U	ug/Kg	1	4.4	1.5	2/21/2017 19:54	J
2-Hexanone	2.7	U	ug/Kg	1	7.4	2.7	2/21/2017 19:54	J
4-Chlorotoluene	1.8	U	ug/Kg	1	4.4	1.8	2/21/2017 19:54	J
4-Methyl-2-pentanone (MIBK)	1.6	U	ug/Kg	1	7.4	1.6	2/21/2017 19:54	J
Acetone	3.9	I	ug/Kg	1	15	3.7	2/21/2017 19:54	J
Benzene	1.8	U	ug/Kg	1	4.4	1.8	2/21/2017 19:54	J
Bromobenzene	1.8	U	ug/Kg	1	4.4	1.8	2/21/2017 19:54	J
Bromodichloromethane	2.0	U	ug/Kg	1	4.4	2.0	2/21/2017 19:54	J
Bromoform	2.9	U	ug/Kg	1	7.4	2.9	2/21/2017 19:54	J
Bromomethane	1.9	U	ug/Kg	1	4.4	1.9	2/21/2017 19:54	J
Carbon Disulfide	1.8	U	ug/Kg	1	7.4	1.8	2/21/2017 19:54	J
Carbon Tetrachloride	2.1	U	ug/Kg	1	4.4	2.1	2/21/2017 19:54	J
Chlorobenzene	2.1	U	ug/Kg	1	4.4	2.1	2/21/2017 19:54	J

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ANALYTICAL RESULTS

Workorder: J1701621 1101 St. Johns Ave

Lab ID: **J1701621004**

Date Received: 02/14/17 12:50 Matrix: Soil

Sample ID: **SJ-MW-3 (3-4)**

Date Collected: 02/13/17 12:35

Results for sample J1701621004 are reported on a dry weight basis.

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Chloroethane	1.5	U	ug/Kg	1	4.4	1.5	2/21/2017 19:54	J
Chloroform	1.9	U	ug/Kg	1	4.4	1.9	2/21/2017 19:54	J
Chloromethane	1.5	U	ug/Kg	1	4.4	1.5	2/21/2017 19:54	J
Dibromochloromethane	1.9	U	ug/Kg	1	4.4	1.9	2/21/2017 19:54	J
Dichlorodifluoromethane	1.2	U	ug/Kg	1	4.4	1.2	2/21/2017 19:54	J
Ethylbenzene	1.6	U	ug/Kg	1	4.4	1.6	2/21/2017 19:54	J
Ethylene Dibromide (EDB)	2.0	U	ug/Kg	1	4.4	2.0	2/21/2017 19:54	J
Hexachlorobutadiene	2.4	U	ug/Kg	1	4.4	2.4	2/21/2017 19:54	J
Isopropylbenzene	1.8	U	ug/Kg	1	4.4	1.8	2/21/2017 19:54	J
Methyl tert-butyl Ether (MTBE)	1.7	U	ug/Kg	1	4.4	1.7	2/21/2017 19:54	J
Methylene Chloride	4.1	U	ug/Kg	1	15	4.1	2/21/2017 19:54	J
Naphthalene	2.6	U	ug/Kg	1	4.4	2.6	2/21/2017 19:54	J
Styrene	1.4	U	ug/Kg	1	4.4	1.4	2/21/2017 19:54	J
Tetrachloroethylene (PCE)	1.8	U	ug/Kg	1	4.4	1.8	2/21/2017 19:54	J
Toluene	2.0	U	ug/Kg	1	4.4	2.0	2/21/2017 19:54	J
Trichloroethene	1.5	U	ug/Kg	1	4.4	1.5	2/21/2017 19:54	J
Trichlorofluoromethane	1.3	U	ug/Kg	1	4.4	1.3	2/21/2017 19:54	J
Vinyl Chloride	1.8	U	ug/Kg	1	4.4	1.8	2/21/2017 19:54	J
Xylene (Total)	5.6	U	ug/Kg	1	13	5.6	2/21/2017 19:54	J
cis-1,2-Dichloroethylene	2.1	U	ug/Kg	1	4.4	2.1	2/21/2017 19:54	J
cis-1,3-Dichloropropene	1.6	U	ug/Kg	1	4.4	1.6	2/21/2017 19:54	J
n-Butylbenzene	1.6	U	ug/Kg	1	4.4	1.6	2/21/2017 19:54	J
n-propylbenzene	1.7	U	ug/Kg	1	4.4	1.7	2/21/2017 19:54	J
p-Isopropyltoluene	1.9	U	ug/Kg	1	4.4	1.9	2/21/2017 19:54	J
sec-butylbenzene	1.7	U	ug/Kg	1	4.4	1.7	2/21/2017 19:54	J
tert-butylbenzene	1.6	U	ug/Kg	1	4.4	1.6	2/21/2017 19:54	J
trans-1,2-Dichloroethylene	1.4	U	ug/Kg	1	4.4	1.4	2/21/2017 19:54	J
trans-1,3-Dichloropropylene	1.1	U	ug/Kg	1	4.4	1.1	2/21/2017 19:54	J
1,2-Dichloroethane-d4 (S)	104		%	1	69-134		2/21/2017 19:54	
Toluene-d8 (S)	99		%	1	72-122		2/21/2017 19:54	
Bromofluorobenzene (S)	91		%	1	79-126		2/21/2017 19:54	

VOLATILES

Analysis Desc: Percent
Solids, SM2540G, Soil

Analytical Method: SM 2540G

Percent Moisture	3.1	%	1			2/22/2017 16:00	J
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ANALYTICAL RESULTS

Workorder: J1701621 1101 St. Johns Ave

Lab ID: **J1701621005** Date Received: 02/14/17 12:50 Matrix: Soil
Sample ID: **SJ-MW-4 (1-2)** Date Collected: 02/13/17 12:45

Results for sample J1701621005 are reported on a dry weight basis.

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis, Soils			Preparation Method: SW-846 3050B Analytical Method: SW-846 6010					
Arsenic	2.6		mg/Kg	1	0.29	0.26	2/22/2017 17:27	J
Barium	70		mg/Kg	1	0.058	0.033	2/22/2017 17:27	J
Cadmium	0.22		mg/Kg	1	0.17	0.036	2/22/2017 17:27	J
Chromium	6.4		mg/Kg	1	0.12	0.069	2/22/2017 17:27	J
Lead	340		mg/Kg	1	0.20	0.058	2/22/2017 17:27	J
Selenium	0.22	U	mg/Kg	1	0.58	0.22	2/22/2017 17:27	J
Silver	0.37		mg/Kg	1	0.12	0.034	2/22/2017 17:27	J

Analysis Desc: SW846 7471A Analysis, Soil			Preparation Method: SW-846 7471A Analytical Method: SW-846 7471A					
Mercury	0.45		mg/Kg	1	0.0058	0.00081	2/16/2017 14:26	J

SEMIVOLATILES

Analysis Desc: 8270D-SIM Analysis, Soil			Preparation Method: SW-846 3550B Analytical Method: SW-846 8270D (SIM)					
1-Methylnaphthalene	0.042		mg/Kg	1	0.038	0.011	2/22/2017 19:20	J
2-Methylnaphthalene	0.075		mg/Kg	1	0.038	0.015	2/22/2017 19:20	J
Acenaphthene	0.015	U	mg/Kg	1	0.038	0.015	2/22/2017 19:20	J
Acenaphthylene	0.020	U	mg/Kg	1	0.038	0.020	2/22/2017 19:20	J
Anthracene	0.020	U	mg/Kg	1	0.038	0.020	2/22/2017 19:20	J
Benzo[a]anthracene	0.016	U	mg/Kg	1	0.038	0.016	2/22/2017 19:20	J
Benzo[a]pyrene	0.033	U	mg/Kg	1	0.038	0.033	2/22/2017 19:20	J
Benzo[b]fluoranthene	0.024	U	mg/Kg	1	0.038	0.024	2/22/2017 19:20	J
Benzo[g,h,i]perylene	0.027	U	mg/Kg	1	0.038	0.027	2/22/2017 19:20	J
Benzo[k]fluoranthene	0.025	U	mg/Kg	1	0.038	0.025	2/22/2017 19:20	J
Chrysene	0.020	U	mg/Kg	1	0.038	0.020	2/22/2017 19:20	J
Dibenzo[a,h]anthracene	0.018	U	mg/Kg	1	0.038	0.018	2/22/2017 19:20	J
Fluoranthene	0.025	U	mg/Kg	1	0.038	0.025	2/22/2017 19:20	J
Fluorene	0.017	U	mg/Kg	1	0.038	0.017	2/22/2017 19:20	J
Indeno(1,2,3-cd)pyrene	0.020	U	mg/Kg	1	0.038	0.020	2/22/2017 19:20	J
Naphthalene	0.049		mg/Kg	1	0.038	0.012	2/22/2017 19:20	J
Phenanthrene	0.016	U	mg/Kg	1	0.038	0.016	2/22/2017 19:20	J
Pyrene	0.014	U	mg/Kg	1	0.038	0.014	2/22/2017 19:20	J
Nitrobenzene-d5 (S)	80		%	1	33-134		2/22/2017 19:20	
2-Fluorobiphenyl (S)	82		%	1	37-127		2/22/2017 19:20	

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ANALYTICAL RESULTS

Workorder: J1701621 1101 St. Johns Ave

Lab ID: **J1701621005**

Date Received: 02/14/17 12:50 Matrix: Soil

Sample ID: **SJ-MW-4 (1-2)**

Date Collected: 02/13/17 12:45

Results for sample J1701621005 are reported on a dry weight basis.

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
p-Terphenyl-d14 (S)	101		%	1	42-141		2/22/2017 19:20	

VOLATILES

Analysis Desc: 8260C Analysis, Soil

Preparation Method: SW-846 5035

Analytical Method: SW-846 8260C

1,1,1,2-Tetrachloroethane	2.6	U	ug/Kg	1	5.0	2.6	2/21/2017 20:21	J
1,1,1-Trichloroethane	2.3	U	ug/Kg	1	5.0	2.3	2/21/2017 20:21	J
1,1,2,2-Tetrachloroethane	3.3	U	ug/Kg	1	5.0	3.3	2/21/2017 20:21	J
1,1,2-Trichloroethane	2.2	U	ug/Kg	1	5.0	2.2	2/21/2017 20:21	J
1,1-Dichloroethane	2.1	U	ug/Kg	1	5.0	2.1	2/21/2017 20:21	J
1,1-Dichloroethylene	2.0	U	ug/Kg	1	5.0	2.0	2/21/2017 20:21	J
1,1-Dichloropropene	1.8	U	ug/Kg	1	5.0	1.8	2/21/2017 20:21	J
1,2,3-Trichlorobenzene	2.3	U	ug/Kg	1	5.0	2.3	2/21/2017 20:21	J
1,2,3-Trichloropropane	2.3	U	ug/Kg	1	5.0	2.3	2/21/2017 20:21	J
1,2,4-Trichlorobenzene	2.4	U	ug/Kg	1	5.0	2.4	2/21/2017 20:21	J
1,2,4-Trimethylbenzene	1.7	U	ug/Kg	1	5.0	1.7	2/21/2017 20:21	J
1,2-Dibromo-3-Chloropropane	6.6	U	ug/Kg	1	8.4	6.6	2/21/2017 20:21	J
1,2-Dichlorobenzene	2.2	U	ug/Kg	1	5.0	2.2	2/21/2017 20:21	J
1,2-Dichloroethane	2.3	U	ug/Kg	1	5.0	2.3	2/21/2017 20:21	J
1,2-Dichloropropane	2.1	U	ug/Kg	1	5.0	2.1	2/21/2017 20:21	J
1,3,5-Trimethylbenzene	1.7	U	ug/Kg	1	5.0	1.7	2/21/2017 20:21	J
1,3-Dichlorobenzene	2.1	U	ug/Kg	1	5.0	2.1	2/21/2017 20:21	J
1,3-Dichloropropane	2.7	U	ug/Kg	1	5.0	2.7	2/21/2017 20:21	J
1,4-Dichlorobenzene	1.9	U	ug/Kg	1	5.0	1.9	2/21/2017 20:21	J
2,2-Dichloropropane	1.6	U	ug/Kg	1	8.4	1.6	2/21/2017 20:21	J
2-Butanone (MEK)	3.5	U	ug/Kg	1	8.4	3.5	2/21/2017 20:21	J
2-Chlorotoluene	1.7	U	ug/Kg	1	5.0	1.7	2/21/2017 20:21	J
2-Hexanone	3.1	U	ug/Kg	1	8.4	3.1	2/21/2017 20:21	J
4-Chlorotoluene	2.1	U	ug/Kg	1	5.0	2.1	2/21/2017 20:21	J
4-Methyl-2-pentanone (MIBK)	1.8	U	ug/Kg	1	8.4	1.8	2/21/2017 20:21	J
Acetone	4.9	I	ug/Kg	1	17	4.2	2/21/2017 20:21	J
Benzene	2.0	U	ug/Kg	1	5.0	2.0	2/21/2017 20:21	J
Bromobenzene	2.1	U	ug/Kg	1	5.0	2.1	2/21/2017 20:21	J
Bromodichloromethane	2.2	U	ug/Kg	1	5.0	2.2	2/21/2017 20:21	J
Bromoform	3.3	U	ug/Kg	1	8.4	3.3	2/21/2017 20:21	J
Bromomethane	2.2	U	ug/Kg	1	5.0	2.2	2/21/2017 20:21	J
Carbon Disulfide	2.0	U	ug/Kg	1	8.4	2.0	2/21/2017 20:21	J
Carbon Tetrachloride	2.4	U	ug/Kg	1	5.0	2.4	2/21/2017 20:21	J
Chlorobenzene	2.4	U	ug/Kg	1	5.0	2.4	2/21/2017 20:21	J

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ANALYTICAL RESULTS

Workorder: J1701621 1101 St. Johns Ave

Lab ID: **J1701621005**

Date Received: 02/14/17 12:50 Matrix: Soil

Sample ID: **SJ-MW-4 (1-2)**

Date Collected: 02/13/17 12:45

Results for sample J1701621005 are reported on a dry weight basis.

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Chloroethane	1.7	U	ug/Kg	1	5.0	1.7	2/21/2017 20:21	J
Chloroform	2.2	U	ug/Kg	1	5.0	2.2	2/21/2017 20:21	J
Chloromethane	1.7	U	ug/Kg	1	5.0	1.7	2/21/2017 20:21	J
Dibromochloromethane	2.2	U	ug/Kg	1	5.0	2.2	2/21/2017 20:21	J
Dichlorodifluoromethane	1.4	U	ug/Kg	1	5.0	1.4	2/21/2017 20:21	J
Ethylbenzene	1.8	U	ug/Kg	1	5.0	1.8	2/21/2017 20:21	J
Ethylene Dibromide (EDB)	2.3	U	ug/Kg	1	5.0	2.3	2/21/2017 20:21	J
Hexachlorobutadiene	2.7	U	ug/Kg	1	5.0	2.7	2/21/2017 20:21	J
Isopropylbenzene	2.1	U	ug/Kg	1	5.0	2.1	2/21/2017 20:21	J
Methyl tert-butyl Ether (MTBE)	1.9	U	ug/Kg	1	5.0	1.9	2/21/2017 20:21	J
Methylene Chloride	4.7	U	ug/Kg	1	17	4.7	2/21/2017 20:21	J
Naphthalene	2.9	U	ug/Kg	1	5.0	2.9	2/21/2017 20:21	J
Styrene	1.6	U	ug/Kg	1	5.0	1.6	2/21/2017 20:21	J
Tetrachloroethylene (PCE)	2.0	U	ug/Kg	1	5.0	2.0	2/21/2017 20:21	J
Toluene	2.3	U	ug/Kg	1	5.0	2.3	2/21/2017 20:21	J
Trichloroethene	1.7	U	ug/Kg	1	5.0	1.7	2/21/2017 20:21	J
Trichlorofluoromethane	1.5	U	ug/Kg	1	5.0	1.5	2/21/2017 20:21	J
Vinyl Chloride	2.0	U	ug/Kg	1	5.0	2.0	2/21/2017 20:21	J
Xylene (Total)	6.4	U	ug/Kg	1	15	6.4	2/21/2017 20:21	J
cis-1,2-Dichloroethylene	2.4	U	ug/Kg	1	5.0	2.4	2/21/2017 20:21	J
cis-1,3-Dichloropropene	1.8	U	ug/Kg	1	5.0	1.8	2/21/2017 20:21	J
n-Butylbenzene	1.8	U	ug/Kg	1	5.0	1.8	2/21/2017 20:21	J
n-propylbenzene	1.9	U	ug/Kg	1	5.0	1.9	2/21/2017 20:21	J
p-Isopropyltoluene	2.2	U	ug/Kg	1	5.0	2.2	2/21/2017 20:21	J
sec-butylbenzene	1.9	U	ug/Kg	1	5.0	1.9	2/21/2017 20:21	J
tert-butylbenzene	1.8	U	ug/Kg	1	5.0	1.8	2/21/2017 20:21	J
trans-1,2-Dichloroethylene	1.6	U	ug/Kg	1	5.0	1.6	2/21/2017 20:21	J
trans-1,3-Dichloropropylene	1.3	U	ug/Kg	1	5.0	1.3	2/21/2017 20:21	J
1,2-Dichloroethane-d4 (S)	107		%	1	69-134		2/21/2017 20:21	
Toluene-d8 (S)	101		%	1	72-122		2/21/2017 20:21	
Bromofluorobenzene (S)	90		%	1	79-126		2/21/2017 20:21	

VOLATILES

Analysis Desc: Percent
Solids,SM2540G,Soil

Analytical Method: SM 2540G

Percent Moisture	15	%	1		2/22/2017 16:00	J
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ANALYTICAL RESULTS

Workorder: J1701621 1101 St. Johns Ave

Lab ID: **J1701621006**

Date Received: 02/14/17 12:50 Matrix: Soil

Sample ID: **SJ-GP-1 (1-2)**

Date Collected: 02/13/17 12:50

Results for sample J1701621006 are reported on a dry weight basis.

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis, Soils			Preparation Method: SW-846 3050B					
			Analytical Method: SW-846 6010					
Arsenic	0.70		mg/Kg	1	0.26	0.24	2/22/2017 17:32	J
Barium	13		mg/Kg	1	0.052	0.030	2/22/2017 17:32	J
Cadmium	0.29		mg/Kg	1	0.16	0.033	2/22/2017 17:32	J
Chromium	3.7		mg/Kg	1	0.10	0.062	2/22/2017 17:32	J
Lead	53		mg/Kg	1	0.18	0.053	2/22/2017 17:32	J
Selenium	0.20	U	mg/Kg	1	0.52	0.20	2/22/2017 17:32	J
Silver	0.067	I	mg/Kg	1	0.10	0.031	2/22/2017 17:32	J

Analysis Desc: SW846 7471A Analysis, Soil

Preparation Method: SW-846 7471A

Analytical Method: SW-846 7471A

Mercury	0.0077		mg/Kg	1	0.0050	0.00070	2/16/2017 14:29	J
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SEMIVOLATILES

Analysis Desc: 8270D-SIM Analysis, Soil

Preparation Method: SW-846 3550B

Analytical Method: SW-846 8270D (SIM)

1-Methylnaphthalene	0.0098	U	mg/Kg	1	0.034	0.0098	2/22/2017 18:52	J
2-Methylnaphthalene	0.014	U	mg/Kg	1	0.034	0.014	2/22/2017 18:52	J
Acenaphthene	0.013	U	mg/Kg	1	0.034	0.013	2/22/2017 18:52	J
Acenaphthylene	0.017	U	mg/Kg	1	0.034	0.017	2/22/2017 18:52	J
Anthracene	0.018	U	mg/Kg	1	0.034	0.018	2/22/2017 18:52	J
Benzo[a]anthracene	0.019	I	mg/Kg	1	0.034	0.014	2/22/2017 18:52	J
Benzo[a]pyrene	0.031	I	mg/Kg	1	0.034	0.030	2/22/2017 18:52	J
Benzo[b]fluoranthene	0.044		mg/Kg	1	0.034	0.022	2/22/2017 18:52	J
Benzo[g,h,i]perylene	0.12		mg/Kg	1	0.034	0.024	2/22/2017 18:52	J
Benzo[k]fluoranthene	0.022	U	mg/Kg	1	0.034	0.022	2/22/2017 18:52	J
Chrysene	0.036		mg/Kg	1	0.034	0.018	2/22/2017 18:52	J
Dibenzo[a,h]anthracene	0.016	U	mg/Kg	1	0.034	0.016	2/22/2017 18:52	J
Fluoranthene	0.040		mg/Kg	1	0.034	0.022	2/22/2017 18:52	J
Fluorene	0.015	U	mg/Kg	1	0.034	0.015	2/22/2017 18:52	J
Indeno(1,2,3-cd)pyrene	0.039		mg/Kg	1	0.034	0.018	2/22/2017 18:52	J
Naphthalene	0.011	U	mg/Kg	1	0.034	0.011	2/22/2017 18:52	J
Phenanthrene	0.014	U	mg/Kg	1	0.034	0.014	2/22/2017 18:52	J
Pyrene	0.033	I	mg/Kg	1	0.034	0.012	2/22/2017 18:52	J
Nitrobenzene-d5 (S)	72		%	1	33-134		2/22/2017 18:52	
2-Fluorobiphenyl (S)	77		%	1	37-127		2/22/2017 18:52	

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ANALYTICAL RESULTS

Workorder: J1701621 1101 St. Johns Ave

Lab ID: **J1701621006**

Date Received: 02/14/17 12:50 Matrix: Soil

Sample ID: **SJ-GP-1 (1-2)**

Date Collected: 02/13/17 12:50

Results for sample J1701621006 are reported on a dry weight basis.

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
p-Terphenyl-d14 (S)	96		%	1	42-141		2/22/2017 18:52	

VOLATILES

Analysis Desc: 8260C Analysis, Soil

Preparation Method: SW-846 5035

Analytical Method: SW-846 8260C

1,1,1,2-Tetrachloroethane	2.0	U	ug/Kg	1	4.0	2.0	2/21/2017 20:49	J
1,1,1-Trichloroethane	1.9	U	ug/Kg	1	4.0	1.9	2/21/2017 20:49	J
1,1,2,2-Tetrachloroethane	2.6	U	ug/Kg	1	4.0	2.6	2/21/2017 20:49	J
1,1,2-Trichloroethane	1.8	U	ug/Kg	1	4.0	1.8	2/21/2017 20:49	J
1,1-Dichloroethane	1.7	U	ug/Kg	1	4.0	1.7	2/21/2017 20:49	J
1,1-Dichloroethylene	1.6	U	ug/Kg	1	4.0	1.6	2/21/2017 20:49	J
1,1-Dichloropropene	1.4	U	ug/Kg	1	4.0	1.4	2/21/2017 20:49	J
1,2,3-Trichlorobenzene	1.8	U	ug/Kg	1	4.0	1.8	2/21/2017 20:49	J
1,2,3-Trichloropropane	1.8	U	ug/Kg	1	4.0	1.8	2/21/2017 20:49	J
1,2,4-Trichlorobenzene	1.9	U	ug/Kg	1	4.0	1.9	2/21/2017 20:49	J
1,2,4-Trimethylbenzene	1.4	U	ug/Kg	1	4.0	1.4	2/21/2017 20:49	J
1,2-Dibromo-3-Chloropropane	5.3	U	ug/Kg	1	6.7	5.3	2/21/2017 20:49	J
1,2-Dichlorobenzene	1.8	U	ug/Kg	1	4.0	1.8	2/21/2017 20:49	J
1,2-Dichloroethane	1.9	U	ug/Kg	1	4.0	1.9	2/21/2017 20:49	J
1,2-Dichloropropane	1.6	U	ug/Kg	1	4.0	1.6	2/21/2017 20:49	J
1,3,5-Trimethylbenzene	1.3	U	ug/Kg	1	4.0	1.3	2/21/2017 20:49	J
1,3-Dichlorobenzene	1.7	U	ug/Kg	1	4.0	1.7	2/21/2017 20:49	J
1,3-Dichloropropane	2.2	U	ug/Kg	1	4.0	2.2	2/21/2017 20:49	J
1,4-Dichlorobenzene	1.5	U	ug/Kg	1	4.0	1.5	2/21/2017 20:49	J
2,2-Dichloropropane	1.3	U	ug/Kg	1	6.7	1.3	2/21/2017 20:49	J
2-Butanone (MEK)	2.8	U	ug/Kg	1	6.7	2.8	2/21/2017 20:49	J
2-Chlorotoluene	1.4	U	ug/Kg	1	4.0	1.4	2/21/2017 20:49	J
2-Hexanone	2.5	U	ug/Kg	1	6.7	2.5	2/21/2017 20:49	J
4-Chlorotoluene	1.6	U	ug/Kg	1	4.0	1.6	2/21/2017 20:49	J
4-Methyl-2-pentanone (MIBK)	1.4	U	ug/Kg	1	6.7	1.4	2/21/2017 20:49	J
Acetone	3.3	U	ug/Kg	1	13	3.3	2/21/2017 20:49	J
Benzene	1.6	U	ug/Kg	1	4.0	1.6	2/21/2017 20:49	J
Bromobenzene	1.6	U	ug/Kg	1	4.0	1.6	2/21/2017 20:49	J
Bromodichloromethane	1.8	U	ug/Kg	1	4.0	1.8	2/21/2017 20:49	J
Bromoform	2.6	U	ug/Kg	1	6.7	2.6	2/21/2017 20:49	J
Bromomethane	1.7	U	ug/Kg	1	4.0	1.7	2/21/2017 20:49	J
Carbon Disulfide	1.6	U	ug/Kg	1	6.7	1.6	2/21/2017 20:49	J
Carbon Tetrachloride	1.9	U	ug/Kg	1	4.0	1.9	2/21/2017 20:49	J
Chlorobenzene	1.9	U	ug/Kg	1	4.0	1.9	2/21/2017 20:49	J

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ANALYTICAL RESULTS

Workorder: J1701621 1101 St. Johns Ave

Lab ID: **J1701621006**

Date Received: 02/14/17 12:50 Matrix: Soil

Sample ID: **SJ-GP-1 (1-2)**

Date Collected: 02/13/17 12:50

Results for sample J1701621006 are reported on a dry weight basis.

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Chloroethane	1.3	U	ug/Kg	1	4.0	1.3	2/21/2017 20:49	J
Chloroform	1.7	U	ug/Kg	1	4.0	1.7	2/21/2017 20:49	J
Chloromethane	1.4	U	ug/Kg	1	4.0	1.4	2/21/2017 20:49	J
Dibromochloromethane	1.7	U	ug/Kg	1	4.0	1.7	2/21/2017 20:49	J
Dichlorodifluoromethane	1.1	U	ug/Kg	1	4.0	1.1	2/21/2017 20:49	J
Ethylbenzene	1.5	U	ug/Kg	1	4.0	1.5	2/21/2017 20:49	J
Ethylene Dibromide (EDB)	1.8	U	ug/Kg	1	4.0	1.8	2/21/2017 20:49	J
Hexachlorobutadiene	2.2	U	ug/Kg	1	4.0	2.2	2/21/2017 20:49	J
Isopropylbenzene	1.7	U	ug/Kg	1	4.0	1.7	2/21/2017 20:49	J
Methyl tert-butyl Ether (MTBE)	1.5	U	ug/Kg	1	4.0	1.5	2/21/2017 20:49	J
Methylene Chloride	3.7	U	ug/Kg	1	13	3.7	2/21/2017 20:49	J
Naphthalene	2.3	U	ug/Kg	1	4.0	2.3	2/21/2017 20:49	J
Styrene	1.3	U	ug/Kg	1	4.0	1.3	2/21/2017 20:49	J
Tetrachloroethylene (PCE)	1.6	U	ug/Kg	1	4.0	1.6	2/21/2017 20:49	J
Toluene	1.8	U	ug/Kg	1	4.0	1.8	2/21/2017 20:49	J
Trichloroethene	1.4	U	ug/Kg	1	4.0	1.4	2/21/2017 20:49	J
Trichlorofluoromethane	1.2	U	ug/Kg	1	4.0	1.2	2/21/2017 20:49	J
Vinyl Chloride	1.6	U	ug/Kg	1	4.0	1.6	2/21/2017 20:49	J
Xylene (Total)	5.1	U	ug/Kg	1	12	5.1	2/21/2017 20:49	J
cis-1,2-Dichloroethylene	1.9	U	ug/Kg	1	4.0	1.9	2/21/2017 20:49	J
cis-1,3-Dichloropropene	1.4	U	ug/Kg	1	4.0	1.4	2/21/2017 20:49	J
n-Butylbenzene	1.4	U	ug/Kg	1	4.0	1.4	2/21/2017 20:49	J
n-propylbenzene	1.5	U	ug/Kg	1	4.0	1.5	2/21/2017 20:49	J
p-Isopropyltoluene	1.7	U	ug/Kg	1	4.0	1.7	2/21/2017 20:49	J
sec-butylbenzene	1.5	U	ug/Kg	1	4.0	1.5	2/21/2017 20:49	J
tert-butylbenzene	1.5	U	ug/Kg	1	4.0	1.5	2/21/2017 20:49	J
trans-1,2-Dichloroethylene	1.3	U	ug/Kg	1	4.0	1.3	2/21/2017 20:49	J
trans-1,3-Dichloropropylene	1.0	U	ug/Kg	1	4.0	1.0	2/21/2017 20:49	J
1,2-Dichloroethane-d4 (S)	103		%	1	69-134		2/21/2017 20:49	
Toluene-d8 (S)	99		%	1	72-122		2/21/2017 20:49	
Bromofluorobenzene (S)	94		%	1	79-126		2/21/2017 20:49	

VOLATILES

Analysis Desc: Percent
Solids, SM2540G, Soil

Analytical Method: SM 2540G

Percent Moisture	4.0	%	1			2/22/2017 16:00	J
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ANALYTICAL RESULTS

Workorder: J1701621 1101 St. Johns Ave

Lab ID: **J1701621007**

Date Received: 02/14/17 12:50 Matrix: Soil

Sample ID: **SJ-GP-2 (2-3)**

Date Collected: 02/13/17 12:55

Results for sample J1701621007 are reported on a dry weight basis.

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis, Soils			Preparation Method: SW-846 3050B Analytical Method: SW-846 6010					
Arsenic	0.88		mg/Kg	1	0.27	0.25	2/22/2017 17:37	J
Barium	37		mg/Kg	1	0.055	0.031	2/22/2017 17:37	J
Cadmium	0.14	I	mg/Kg	1	0.16	0.035	2/22/2017 17:37	J
Chromium	4.0		mg/Kg	1	0.11	0.065	2/22/2017 17:37	J
Lead	110		mg/Kg	1	0.19	0.056	2/22/2017 17:37	J
Selenium	0.21	U	mg/Kg	1	0.55	0.21	2/22/2017 17:37	J
Silver	0.099	I	mg/Kg	1	0.11	0.033	2/22/2017 17:37	J
Analysis Desc: SW846 7471A Analysis, Soil			Preparation Method: SW-846 7471A Analytical Method: SW-846 7471A					
Mercury	0.24		mg/Kg	1	0.0054	0.00076	2/16/2017 14:32	J
SEMIVOLATILES								
Analysis Desc: 8270D-SIM Analysis, Soil			Preparation Method: SW-846 3550B Analytical Method: SW-846 8270D (SIM)					
1-Methylnaphthalene	0.010	U	mg/Kg	1	0.036	0.010	2/22/2017 18:23	J
2-Methylnaphthalene	0.015	U	mg/Kg	1	0.036	0.015	2/22/2017 18:23	J
Acenaphthene	0.014	U	mg/Kg	1	0.036	0.014	2/22/2017 18:23	J
Acenaphthylene	0.019	U	mg/Kg	1	0.036	0.019	2/22/2017 18:23	J
Anthracene	0.019	U	mg/Kg	1	0.036	0.019	2/22/2017 18:23	J
Benzo[a]anthracene	0.028	I	mg/Kg	1	0.036	0.015	2/22/2017 18:23	J
Benzo[a]pyrene	0.042		mg/Kg	1	0.036	0.032	2/22/2017 18:23	J
Benzo[b]fluoranthene	0.061		mg/Kg	1	0.036	0.023	2/22/2017 18:23	J
Benzo[g,h,i]perylene	0.043		mg/Kg	1	0.036	0.026	2/22/2017 18:23	J
Benzo[k]fluoranthene	0.026	I	mg/Kg	1	0.036	0.023	2/22/2017 18:23	J
Chrysene	0.049		mg/Kg	1	0.036	0.019	2/22/2017 18:23	J
Dibenzo[a,h]anthracene	0.017	U	mg/Kg	1	0.036	0.017	2/22/2017 18:23	J
Fluoranthene	0.057		mg/Kg	1	0.036	0.024	2/22/2017 18:23	J
Fluorene	0.016	U	mg/Kg	1	0.036	0.016	2/22/2017 18:23	J
Indeno(1,2,3-cd)pyrene	0.041		mg/Kg	1	0.036	0.019	2/22/2017 18:23	J
Naphthalene	0.011	U	mg/Kg	1	0.036	0.011	2/22/2017 18:23	J
Phenanthrene	0.023	I	mg/Kg	1	0.036	0.015	2/22/2017 18:23	J
Pyrene	0.056		mg/Kg	1	0.036	0.013	2/22/2017 18:23	J
Nitrobenzene-d5 (S)	77		%	1	33-134		2/22/2017 18:23	
2-Fluorobiphenyl (S)	78		%	1	37-127		2/22/2017 18:23	

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ANALYTICAL RESULTS

Workorder: J1701621 1101 St. Johns Ave

Lab ID: **J1701621007**

Date Received: 02/14/17 12:50 Matrix: Soil

Sample ID: **SJ-GP-2 (2-3)**

Date Collected: 02/13/17 12:55

Results for sample J1701621007 are reported on a dry weight basis.

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
p-Terphenyl-d14 (S)	100		%	1	42-141		2/22/2017 18:23	

VOLATILES

Analysis Desc: 8260C Analysis, Soil

Preparation Method: SW-846 5035

Analytical Method: SW-846 8260C

1,1,1,2-Tetrachloroethane	2.3	U	ug/Kg	1	4.5	2.3	2/20/2017 21:16	J
1,1,1-Trichloroethane	2.1	U	ug/Kg	1	4.5	2.1	2/20/2017 21:16	J
1,1,2,2-Tetrachloroethane	2.9	U	ug/Kg	1	4.5	2.9	2/20/2017 21:16	J
1,1,2-Trichloroethane	2.0	U	ug/Kg	1	4.5	2.0	2/20/2017 21:16	J
1,1-Dichloroethane	1.9	U	ug/Kg	1	4.5	1.9	2/20/2017 21:16	J
1,1-Dichloroethylene	1.8	U	ug/Kg	1	4.5	1.8	2/20/2017 21:16	J
1,1-Dichloropropene	1.6	U	ug/Kg	1	4.5	1.6	2/20/2017 21:16	J
1,2,3-Trichlorobenzene	2.1	U	ug/Kg	1	4.5	2.1	2/20/2017 21:16	J
1,2,3-Trichloropropane	2.0	U	ug/Kg	1	4.5	2.0	2/20/2017 21:16	J
1,2,4-Trichlorobenzene	2.1	U	ug/Kg	1	4.5	2.1	2/20/2017 21:16	J
1,2,4-Trimethylbenzene	1.5	U	ug/Kg	1	4.5	1.5	2/20/2017 21:16	J
1,2-Dibromo-3-Chloropropane	5.9	U	ug/Kg	1	7.4	5.9	2/20/2017 21:16	J
1,2-Dichlorobenzene	2.0	U	ug/Kg	1	4.5	2.0	2/20/2017 21:16	J
1,2-Dichloroethane	2.1	U	ug/Kg	1	4.5	2.1	2/20/2017 21:16	J
1,2-Dichloropropane	1.8	U	ug/Kg	1	4.5	1.8	2/20/2017 21:16	J
1,3,5-Trimethylbenzene	1.5	U	ug/Kg	1	4.5	1.5	2/20/2017 21:16	J
1,3-Dichlorobenzene	1.9	U	ug/Kg	1	4.5	1.9	2/20/2017 21:16	J
1,3-Dichloropropane	2.4	U	ug/Kg	1	4.5	2.4	2/20/2017 21:16	J
1,4-Dichlorobenzene	1.7	U	ug/Kg	1	4.5	1.7	2/20/2017 21:16	J
2,2-Dichloropropane	1.4	U	ug/Kg	1	7.4	1.4	2/20/2017 21:16	J
2-Butanone (MEK)	3.1	U	ug/Kg	1	7.4	3.1	2/20/2017 21:16	J
2-Chlorotoluene	1.5	U	ug/Kg	1	4.5	1.5	2/20/2017 21:16	J
2-Hexanone	2.8	U	ug/Kg	1	7.4	2.8	2/20/2017 21:16	J
4-Chlorotoluene	1.8	U	ug/Kg	1	4.5	1.8	2/20/2017 21:16	J
4-Methyl-2-pentanone (MIBK)	1.6	U	ug/Kg	1	7.4	1.6	2/20/2017 21:16	J
Acetone	5.9	I	ug/Kg	1	15	3.7	2/20/2017 21:16	J
Benzene	1.8	U	ug/Kg	1	4.5	1.8	2/20/2017 21:16	J
Bromobenzene	1.8	U	ug/Kg	1	4.5	1.8	2/20/2017 21:16	J
Bromodichloromethane	2.0	U	ug/Kg	1	4.5	2.0	2/20/2017 21:16	J
Bromoform	2.9	U	ug/Kg	1	7.4	2.9	2/20/2017 21:16	J
Bromomethane	1.9	U	ug/Kg	1	4.5	1.9	2/20/2017 21:16	J
Carbon Disulfide	1.8	U	ug/Kg	1	7.4	1.8	2/20/2017 21:16	J
Carbon Tetrachloride	2.1	U	ug/Kg	1	4.5	2.1	2/20/2017 21:16	J
Chlorobenzene	2.2	U	ug/Kg	1	4.5	2.2	2/20/2017 21:16	J

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ANALYTICAL RESULTS

Workorder: J1701621 1101 St. Johns Ave

Lab ID: **J1701621007**

Date Received: 02/14/17 12:50 Matrix: Soil

Sample ID: **SJ-GP-2 (2-3)**

Date Collected: 02/13/17 12:55

Results for sample J1701621007 are reported on a dry weight basis.

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Chloroethane	1.5	U	ug/Kg	1	4.5	1.5	2/20/2017 21:16	J
Chloroform	1.9	U	ug/Kg	1	4.5	1.9	2/20/2017 21:16	J
Chloromethane	1.5	U	ug/Kg	1	4.5	1.5	2/20/2017 21:16	J
Dibromochloromethane	1.9	U	ug/Kg	1	4.5	1.9	2/20/2017 21:16	J
Dichlorodifluoromethane	1.2	U	ug/Kg	1	4.5	1.2	2/20/2017 21:16	J
Ethylbenzene	1.6	U	ug/Kg	1	4.5	1.6	2/20/2017 21:16	J
Ethylene Dibromide (EDB)	2.0	U	ug/Kg	1	4.5	2.0	2/20/2017 21:16	J
Hexachlorobutadiene	2.4	U	ug/Kg	1	4.5	2.4	2/20/2017 21:16	J
Isopropylbenzene	1.8	U	ug/Kg	1	4.5	1.8	2/20/2017 21:16	J
Methyl tert-butyl Ether (MTBE)	1.7	U	ug/Kg	1	4.5	1.7	2/20/2017 21:16	J
Methylene Chloride	4.2	U	ug/Kg	1	15	4.2	2/20/2017 21:16	J
Naphthalene	2.6	U	ug/Kg	1	4.5	2.6	2/20/2017 21:16	J
Styrene	1.5	U	ug/Kg	1	4.5	1.5	2/20/2017 21:16	J
Tetrachloroethylene (PCE)	1.8	U	ug/Kg	1	4.5	1.8	2/20/2017 21:16	J
Toluene	2.1	U	ug/Kg	1	4.5	2.1	2/20/2017 21:16	J
Trichloroethene	1.5	U	ug/Kg	1	4.5	1.5	2/20/2017 21:16	J
Trichlorofluoromethane	1.4	U	ug/Kg	1	4.5	1.4	2/20/2017 21:16	J
Vinyl Chloride	1.8	U	ug/Kg	1	4.5	1.8	2/20/2017 21:16	J
Xylene (Total)	5.6	U	ug/Kg	1	13	5.6	2/20/2017 21:16	J
cis-1,2-Dichloroethylene	2.1	U	ug/Kg	1	4.5	2.1	2/20/2017 21:16	J
cis-1,3-Dichloropropene	1.6	U	ug/Kg	1	4.5	1.6	2/20/2017 21:16	J
n-Butylbenzene	1.6	U	ug/Kg	1	4.5	1.6	2/20/2017 21:16	J
n-propylbenzene	1.7	U	ug/Kg	1	4.5	1.7	2/20/2017 21:16	J
p-Isopropyltoluene	1.9	U	ug/Kg	1	4.5	1.9	2/20/2017 21:16	J
sec-butylbenzene	1.7	U	ug/Kg	1	4.5	1.7	2/20/2017 21:16	J
tert-butylbenzene	1.6	U	ug/Kg	1	4.5	1.6	2/20/2017 21:16	J
trans-1,2-Dichloroethylene	1.5	U	ug/Kg	1	4.5	1.5	2/20/2017 21:16	J
trans-1,3-Dichloropropylene	1.1	U	ug/Kg	1	4.5	1.1	2/20/2017 21:16	J
1,2-Dichloroethane-d4 (S)	105		%	1	69-134		2/20/2017 21:16	
Toluene-d8 (S)	100		%	1	72-122		2/20/2017 21:16	
Bromofluorobenzene (S)	96		%	1	79-126		2/20/2017 21:16	

VOLATILES

Analysis Desc: Percent
Solids, SM2540G, Soil

Analytical Method: SM 2540G

Percent Moisture	9.1	%	1			2/22/2017 16:00	J
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ANALYTICAL RESULTS

Workorder: J1701621 1101 St. Johns Ave

Lab ID: **J1701621008**

Date Received: 02/14/17 12:50 Matrix: Soil

Sample ID: **SJ-GP-3 (1-2)**

Date Collected: 02/13/17 13:05

Results for sample J1701621008 are reported on a dry weight basis.

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis, Soils			Preparation Method: SW-846 3050B					
			Analytical Method: SW-846 6010					
Arsenic	1.0		mg/Kg	1	0.26	0.24	2/22/2017 17:41	J
Barium	9.6		mg/Kg	1	0.052	0.030	2/22/2017 17:41	J
Cadmium	0.20		mg/Kg	1	0.16	0.033	2/22/2017 17:41	J
Chromium	3.8		mg/Kg	1	0.10	0.062	2/22/2017 17:41	J
Lead	30		mg/Kg	1	0.18	0.052	2/22/2017 17:41	J
Selenium	0.19	U	mg/Kg	1	0.52	0.19	2/22/2017 17:41	J
Silver	0.071	I	mg/Kg	1	0.10	0.031	2/22/2017 17:41	J
Analysis Desc: SW846 7471A Analysis, Soil			Preparation Method: SW-846 7471A					
			Analytical Method: SW-846 7471A					
Mercury	0.018		mg/Kg	1	0.0050	0.00069	2/16/2017 14:35	J
SEMIVOLATILES								
Analysis Desc: 8270D-SIM Analysis, Soil			Preparation Method: SW-846 3550B					
			Analytical Method: SW-846 8270D (SIM)					
1-Methylnaphthalene	0.010	U	mg/Kg	1	0.035	0.010	2/22/2017 17:54	J
2-Methylnaphthalene	0.014	U	mg/Kg	1	0.035	0.014	2/22/2017 17:54	J
Acenaphthene	0.013	U	mg/Kg	1	0.035	0.013	2/22/2017 17:54	J
Acenaphthylene	0.039		mg/Kg	1	0.035	0.018	2/22/2017 17:54	J
Anthracene	0.018	U	mg/Kg	1	0.035	0.018	2/22/2017 17:54	J
Benzo[a]anthracene	0.032	I	mg/Kg	1	0.035	0.015	2/22/2017 17:54	J
Benzo[a]pyrene	0.059		mg/Kg	1	0.035	0.030	2/22/2017 17:54	J
Benzo[b]fluoranthene	0.077		mg/Kg	1	0.035	0.022	2/22/2017 17:54	J
Benzo[g,h,i]perylene	0.070		mg/Kg	1	0.035	0.025	2/22/2017 17:54	J
Benzo[k]fluoranthene	0.029	I	mg/Kg	1	0.035	0.022	2/22/2017 17:54	J
Chrysene	0.056		mg/Kg	1	0.035	0.018	2/22/2017 17:54	J
Dibenzo[a,h]anthracene	0.017	U	mg/Kg	1	0.035	0.017	2/22/2017 17:54	J
Fluoranthene	0.070		mg/Kg	1	0.035	0.023	2/22/2017 17:54	J
Fluorene	0.015	U	mg/Kg	1	0.035	0.015	2/22/2017 17:54	J
Indeno(1,2,3-cd)pyrene	0.061		mg/Kg	1	0.035	0.018	2/22/2017 17:54	J
Naphthalene	0.011	U	mg/Kg	1	0.035	0.011	2/22/2017 17:54	J
Phenanthrene	0.014	U	mg/Kg	1	0.035	0.014	2/22/2017 17:54	J
Pyrene	0.066		mg/Kg	1	0.035	0.012	2/22/2017 17:54	J
Nitrobenzene-d5 (S)	70		%	1	33-134		2/22/2017 17:54	
2-Fluorobiphenyl (S)	73		%	1	37-127		2/22/2017 17:54	

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ANALYTICAL RESULTS

Workorder: J1701621 1101 St. Johns Ave

Lab ID: **J1701621008**

Date Received: 02/14/17 12:50 Matrix: Soil

Sample ID: **SJ-GP-3 (1-2)**

Date Collected: 02/13/17 13:05

Results for sample J1701621008 are reported on a dry weight basis.

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
p-Terphenyl-d14 (S)	97		%	1	42-141		2/22/2017 17:54	

VOLATILES

Analysis Desc: 8260C Analysis, Soil

Preparation Method: SW-846 5035

Analytical Method: SW-846 8260C

1,1,1,2-Tetrachloroethane	2.3	U	ug/Kg	1	4.5	2.3	2/21/2017 21:44	J
1,1,1-Trichloroethane	2.1	U	ug/Kg	1	4.5	2.1	2/21/2017 21:44	J
1,1,2,2-Tetrachloroethane	2.9	U	ug/Kg	1	4.5	2.9	2/21/2017 21:44	J
1,1,2-Trichloroethane	2.0	U	ug/Kg	1	4.5	2.0	2/21/2017 21:44	J
1,1-Dichloroethane	1.9	U	ug/Kg	1	4.5	1.9	2/21/2017 21:44	J
1,1-Dichloroethylene	1.8	U	ug/Kg	1	4.5	1.8	2/21/2017 21:44	J
1,1-Dichloropropene	1.6	U	ug/Kg	1	4.5	1.6	2/21/2017 21:44	J
1,2,3-Trichlorobenzene	2.1	U	ug/Kg	1	4.5	2.1	2/21/2017 21:44	J
1,2,3-Trichloropropane	2.0	U	ug/Kg	1	4.5	2.0	2/21/2017 21:44	J
1,2,4-Trichlorobenzene	2.1	U	ug/Kg	1	4.5	2.1	2/21/2017 21:44	J
1,2,4-Trimethylbenzene	1.5	U	ug/Kg	1	4.5	1.5	2/21/2017 21:44	J
1,2-Dibromo-3-Chloropropane	5.9	U	ug/Kg	1	7.4	5.9	2/21/2017 21:44	J
1,2-Dichlorobenzene	2.0	U	ug/Kg	1	4.5	2.0	2/21/2017 21:44	J
1,2-Dichloroethane	2.1	U	ug/Kg	1	4.5	2.1	2/21/2017 21:44	J
1,2-Dichloropropane	1.8	U	ug/Kg	1	4.5	1.8	2/21/2017 21:44	J
1,3,5-Trimethylbenzene	1.5	U	ug/Kg	1	4.5	1.5	2/21/2017 21:44	J
1,3-Dichlorobenzene	1.9	U	ug/Kg	1	4.5	1.9	2/21/2017 21:44	J
1,3-Dichloropropane	2.4	U	ug/Kg	1	4.5	2.4	2/21/2017 21:44	J
1,4-Dichlorobenzene	1.7	U	ug/Kg	1	4.5	1.7	2/21/2017 21:44	J
2,2-Dichloropropane	1.4	U	ug/Kg	1	7.4	1.4	2/21/2017 21:44	J
2-Butanone (MEK)	3.1	U	ug/Kg	1	7.4	3.1	2/21/2017 21:44	J
2-Chlorotoluene	1.5	U	ug/Kg	1	4.5	1.5	2/21/2017 21:44	J
2-Hexanone	2.8	U	ug/Kg	1	7.4	2.8	2/21/2017 21:44	J
4-Chlorotoluene	1.8	U	ug/Kg	1	4.5	1.8	2/21/2017 21:44	J
4-Methyl-2-pentanone (MIBK)	1.6	U	ug/Kg	1	7.4	1.6	2/21/2017 21:44	J
Acetone	3.7	U	ug/Kg	1	15	3.7	2/21/2017 21:44	J
Benzene	1.8	U	ug/Kg	1	4.5	1.8	2/21/2017 21:44	J
Bromobenzene	1.8	U	ug/Kg	1	4.5	1.8	2/21/2017 21:44	J
Bromodichloromethane	2.0	U	ug/Kg	1	4.5	2.0	2/21/2017 21:44	J
Bromoform	2.9	U	ug/Kg	1	7.4	2.9	2/21/2017 21:44	J
Bromomethane	1.9	U	ug/Kg	1	4.5	1.9	2/21/2017 21:44	J
Carbon Disulfide	1.8	U	ug/Kg	1	7.4	1.8	2/21/2017 21:44	J
Carbon Tetrachloride	2.1	U	ug/Kg	1	4.5	2.1	2/21/2017 21:44	J
Chlorobenzene	2.2	U	ug/Kg	1	4.5	2.2	2/21/2017 21:44	J

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ANALYTICAL RESULTS

Workorder: J1701621 1101 St. Johns Ave

Lab ID: **J1701621008**

Date Received: 02/14/17 12:50 Matrix: Soil

Sample ID: **SJ-GP-3 (1-2)**

Date Collected: 02/13/17 13:05

Results for sample J1701621008 are reported on a dry weight basis.

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Chloroethane	1.5	U	ug/Kg	1	4.5	1.5	2/21/2017 21:44	J
Chloroform	1.9	U	ug/Kg	1	4.5	1.9	2/21/2017 21:44	J
Chloromethane	1.5	U	ug/Kg	1	4.5	1.5	2/21/2017 21:44	J
Dibromochloromethane	1.9	U	ug/Kg	1	4.5	1.9	2/21/2017 21:44	J
Dichlorodifluoromethane	1.2	U	ug/Kg	1	4.5	1.2	2/21/2017 21:44	J
Ethylbenzene	1.6	U	ug/Kg	1	4.5	1.6	2/21/2017 21:44	J
Ethylene Dibromide (EDB)	2.0	U	ug/Kg	1	4.5	2.0	2/21/2017 21:44	J
Hexachlorobutadiene	2.4	U	ug/Kg	1	4.5	2.4	2/21/2017 21:44	J
Isopropylbenzene	1.8	U	ug/Kg	1	4.5	1.8	2/21/2017 21:44	J
Methyl tert-butyl Ether (MTBE)	1.7	U	ug/Kg	1	4.5	1.7	2/21/2017 21:44	J
Methylene Chloride	4.2	U	ug/Kg	1	15	4.2	2/21/2017 21:44	J
Naphthalene	2.6	U	ug/Kg	1	4.5	2.6	2/21/2017 21:44	J
Styrene	1.5	U	ug/Kg	1	4.5	1.5	2/21/2017 21:44	J
Tetrachloroethylene (PCE)	1.8	U	ug/Kg	1	4.5	1.8	2/21/2017 21:44	J
Toluene	2.1	U	ug/Kg	1	4.5	2.1	2/21/2017 21:44	J
Trichloroethene	1.5	U	ug/Kg	1	4.5	1.5	2/21/2017 21:44	J
Trichlorofluoromethane	1.4	U	ug/Kg	1	4.5	1.4	2/21/2017 21:44	J
Vinyl Chloride	1.8	U	ug/Kg	1	4.5	1.8	2/21/2017 21:44	J
Xylene (Total)	5.7	U	ug/Kg	1	13	5.7	2/21/2017 21:44	J
cis-1,2-Dichloroethylene	2.1	U	ug/Kg	1	4.5	2.1	2/21/2017 21:44	J
cis-1,3-Dichloropropene	1.6	U	ug/Kg	1	4.5	1.6	2/21/2017 21:44	J
n-Butylbenzene	1.6	U	ug/Kg	1	4.5	1.6	2/21/2017 21:44	J
n-propylbenzene	1.7	U	ug/Kg	1	4.5	1.7	2/21/2017 21:44	J
p-Isopropyltoluene	1.9	U	ug/Kg	1	4.5	1.9	2/21/2017 21:44	J
sec-butylbenzene	1.7	U	ug/Kg	1	4.5	1.7	2/21/2017 21:44	J
tert-butylbenzene	1.6	U	ug/Kg	1	4.5	1.6	2/21/2017 21:44	J
trans-1,2-Dichloroethylene	1.5	U	ug/Kg	1	4.5	1.5	2/21/2017 21:44	J
trans-1,3-Dichloropropylene	1.1	U	ug/Kg	1	4.5	1.1	2/21/2017 21:44	J
1,2-Dichloroethane-d4 (S)	104		%	1	69-134		2/21/2017 21:44	
Toluene-d8 (S)	100		%	1	72-122		2/21/2017 21:44	
Bromofluorobenzene (S)	92		%	1	79-126		2/21/2017 21:44	

VOLATILES

Analysis Desc: Percent
Solids, SM2540G, Soil

Analytical Method: SM 2540G

Percent Moisture	4.0	%	1			2/22/2017 16:00	J
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ANALYTICAL RESULTS

Workorder: J1701621 1101 St. Johns Ave

Lab ID: **J1701621009** Date Received: 02/14/17 12:50 Matrix: Soil
Sample ID: **SJ-GP-4 (0-1)** Date Collected: 02/13/17 13:10

Results for sample J1701621009 are reported on a dry weight basis.

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis, Soils			Preparation Method: SW-846 3050B Analytical Method: SW-846 6010					
Arsenic	0.51		mg/Kg	1	0.27	0.25	2/22/2017 18:08	J
Barium	25		mg/Kg	1	0.054	0.031	2/22/2017 18:08	J
Cadmium	0.21		mg/Kg	1	0.16	0.034	2/22/2017 18:08	J
Chromium	4.0		mg/Kg	1	0.11	0.064	2/22/2017 18:08	J
Lead	100		mg/Kg	1	0.19	0.055	2/22/2017 18:08	J
Selenium	0.20	U	mg/Kg	1	0.54	0.20	2/22/2017 18:08	J
Silver	0.032	U	mg/Kg	1	0.11	0.032	2/22/2017 18:08	J

Analysis Desc: SW846 7471A Analysis, Soil			Preparation Method: SW-846 7471A Analytical Method: SW-846 7471A					
Mercury	0.085		mg/Kg	1	0.0053	0.00073	2/16/2017 14:48	J

SEMIVOLATILES

Analysis Desc: 8270D-SIM Analysis, Soil			Preparation Method: SW-846 3550B Analytical Method: SW-846 8270D (SIM)					
1-Methylnaphthalene	0.010	U	mg/Kg	1	0.036	0.010	2/22/2017 17:26	J
2-Methylnaphthalene	0.014	U	mg/Kg	1	0.036	0.014	2/22/2017 17:26	J
Acenaphthene	0.014	U	mg/Kg	1	0.036	0.014	2/22/2017 17:26	J
Acenaphthylene	0.018	U	mg/Kg	1	0.036	0.018	2/22/2017 17:26	J
Anthracene	0.019	U	mg/Kg	1	0.036	0.019	2/22/2017 17:26	J
Benzo[a]anthracene	0.066		mg/Kg	1	0.036	0.015	2/22/2017 17:26	J
Benzo[a]pyrene	0.097		mg/Kg	1	0.036	0.031	2/22/2017 17:26	J
Benzo[b]fluoranthene	0.15		mg/Kg	1	0.036	0.023	2/22/2017 17:26	J
Benzo[g,h,i]perylene	0.096		mg/Kg	1	0.036	0.025	2/22/2017 17:26	J
Benzo[k]fluoranthene	0.057		mg/Kg	1	0.036	0.023	2/22/2017 17:26	J
Chrysene	0.12		mg/Kg	1	0.036	0.019	2/22/2017 17:26	J
Dibenzo[a,h]anthracene	0.026	I	mg/Kg	1	0.036	0.017	2/22/2017 17:26	J
Fluoranthene	0.15		mg/Kg	1	0.036	0.024	2/22/2017 17:26	J
Fluorene	0.016	U	mg/Kg	1	0.036	0.016	2/22/2017 17:26	J
Indeno(1,2,3-cd)pyrene	0.097		mg/Kg	1	0.036	0.019	2/22/2017 17:26	J
Naphthalene	0.011	U	mg/Kg	1	0.036	0.011	2/22/2017 17:26	J
Phenanthrene	0.041		mg/Kg	1	0.036	0.015	2/22/2017 17:26	J
Pyrene	0.13		mg/Kg	1	0.036	0.013	2/22/2017 17:26	J
Nitrobenzene-d5 (S)	77		%	1	33-134		2/22/2017 17:26	
2-Fluorobiphenyl (S)	79		%	1	37-127		2/22/2017 17:26	

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ANALYTICAL RESULTS

Workorder: J1701621 1101 St. Johns Ave

Lab ID: **J1701621009**

Date Received: 02/14/17 12:50 Matrix: Soil

Sample ID: **SJ-GP-4 (0-1)**

Date Collected: 02/13/17 13:10

Results for sample J1701621009 are reported on a dry weight basis.

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
p-Terphenyl-d14 (S)	100		%	1	42-141		2/22/2017 17:26	

VOLATILES

Analysis Desc: 8260C Analysis, Soil

Preparation Method: SW-846 5035

Analytical Method: SW-846 8260C

1,1,1,2-Tetrachloroethane	2.6	U	ug/Kg	1	5.1	2.6	2/21/2017 22:11	J
1,1,1-Trichloroethane	2.4	U	ug/Kg	1	5.1	2.4	2/21/2017 22:11	J
1,1,2,2-Tetrachloroethane	3.3	U	ug/Kg	1	5.1	3.3	2/21/2017 22:11	J
1,1,2-Trichloroethane	2.3	U	ug/Kg	1	5.1	2.3	2/21/2017 22:11	J
1,1-Dichloroethane	2.2	U	ug/Kg	1	5.1	2.2	2/21/2017 22:11	J
1,1-Dichloroethylene	2.0	U	ug/Kg	1	5.1	2.0	2/21/2017 22:11	J
1,1-Dichloropropene	1.8	U	ug/Kg	1	5.1	1.8	2/21/2017 22:11	J
1,2,3-Trichlorobenzene	2.3	U	ug/Kg	1	5.1	2.3	2/21/2017 22:11	J
1,2,3-Trichloropropane	2.3	U	ug/Kg	1	5.1	2.3	2/21/2017 22:11	J
1,2,4-Trichlorobenzene	2.4	U	ug/Kg	1	5.1	2.4	2/21/2017 22:11	J
1,2,4-Trimethylbenzene	1.7	U	ug/Kg	1	5.1	1.7	2/21/2017 22:11	J
1,2-Dibromo-3-Chloropropane	6.7	U	ug/Kg	1	8.5	6.7	2/21/2017 22:11	J
1,2-Dichlorobenzene	2.3	U	ug/Kg	1	5.1	2.3	2/21/2017 22:11	J
1,2-Dichloroethane	2.4	U	ug/Kg	1	5.1	2.4	2/21/2017 22:11	J
1,2-Dichloropropane	2.1	U	ug/Kg	1	5.1	2.1	2/21/2017 22:11	J
1,3,5-Trimethylbenzene	1.7	U	ug/Kg	1	5.1	1.7	2/21/2017 22:11	J
1,3-Dichlorobenzene	2.2	U	ug/Kg	1	5.1	2.2	2/21/2017 22:11	J
1,3-Dichloropropane	2.7	U	ug/Kg	1	5.1	2.7	2/21/2017 22:11	J
1,4-Dichlorobenzene	1.9	U	ug/Kg	1	5.1	1.9	2/21/2017 22:11	J
2,2-Dichloropropane	1.6	U	ug/Kg	1	8.5	1.6	2/21/2017 22:11	J
2-Butanone (MEK)	3.6	U	ug/Kg	1	8.5	3.6	2/21/2017 22:11	J
2-Chlorotoluene	1.7	U	ug/Kg	1	5.1	1.7	2/21/2017 22:11	J
2-Hexanone	3.2	U	ug/Kg	1	8.5	3.2	2/21/2017 22:11	J
4-Chlorotoluene	2.1	U	ug/Kg	1	5.1	2.1	2/21/2017 22:11	J
4-Methyl-2-pentanone (MIBK)	1.8	U	ug/Kg	1	8.5	1.8	2/21/2017 22:11	J
Acetone	4.2	U	ug/Kg	1	17	4.2	2/21/2017 22:11	J
Benzene	2.1	U	ug/Kg	1	5.1	2.1	2/21/2017 22:11	J
Bromobenzene	2.1	U	ug/Kg	1	5.1	2.1	2/21/2017 22:11	J
Bromodichloromethane	2.3	U	ug/Kg	1	5.1	2.3	2/21/2017 22:11	J
Bromoform	3.3	U	ug/Kg	1	8.5	3.3	2/21/2017 22:11	J
Bromomethane	2.2	U	ug/Kg	1	5.1	2.2	2/21/2017 22:11	J
Carbon Disulfide	2.1	U	ug/Kg	1	8.5	2.1	2/21/2017 22:11	J
Carbon Tetrachloride	2.4	U	ug/Kg	1	5.1	2.4	2/21/2017 22:11	J
Chlorobenzene	2.5	U	ug/Kg	1	5.1	2.5	2/21/2017 22:11	J

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ANALYTICAL RESULTS

Workorder: J1701621 1101 St. Johns Ave

Lab ID: **J1701621009**

Date Received: 02/14/17 12:50 Matrix: Soil

Sample ID: **SJ-GP-4 (0-1)**

Date Collected: 02/13/17 13:10

Results for sample J1701621009 are reported on a dry weight basis.

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Chloroethane	1.7	U	ug/Kg	1	5.1	1.7	2/21/2017 22:11	J
Chloroform	2.2	U	ug/Kg	1	5.1	2.2	2/21/2017 22:11	J
Chloromethane	1.7	U	ug/Kg	1	5.1	1.7	2/21/2017 22:11	J
Dibromochloromethane	2.2	U	ug/Kg	1	5.1	2.2	2/21/2017 22:11	J
Dichlorodifluoromethane	1.4	U	ug/Kg	1	5.1	1.4	2/21/2017 22:11	J
Ethylbenzene	1.8	U	ug/Kg	1	5.1	1.8	2/21/2017 22:11	J
Ethylene Dibromide (EDB)	2.3	U	ug/Kg	1	5.1	2.3	2/21/2017 22:11	J
Hexachlorobutadiene	2.7	U	ug/Kg	1	5.1	2.7	2/21/2017 22:11	J
Isopropylbenzene	2.1	U	ug/Kg	1	5.1	2.1	2/21/2017 22:11	J
Methyl tert-butyl Ether (MTBE)	1.9	U	ug/Kg	1	5.1	1.9	2/21/2017 22:11	J
Methylene Chloride	4.7	U	ug/Kg	1	17	4.7	2/21/2017 22:11	J
Naphthalene	2.9	U	ug/Kg	1	5.1	2.9	2/21/2017 22:11	J
Styrene	1.7	U	ug/Kg	1	5.1	1.7	2/21/2017 22:11	J
Tetrachloroethylene (PCE)	2.1	U	ug/Kg	1	5.1	2.1	2/21/2017 22:11	J
Toluene	2.3	U	ug/Kg	1	5.1	2.3	2/21/2017 22:11	J
Trichloroethene	1.7	U	ug/Kg	1	5.1	1.7	2/21/2017 22:11	J
Trichlorofluoromethane	1.5	U	ug/Kg	1	5.1	1.5	2/21/2017 22:11	J
Vinyl Chloride	2.1	U	ug/Kg	1	5.1	2.1	2/21/2017 22:11	J
Xylene (Total)	6.4	U	ug/Kg	1	15	6.4	2/21/2017 22:11	J
cis-1,2-Dichloroethylene	2.4	U	ug/Kg	1	5.1	2.4	2/21/2017 22:11	J
cis-1,3-Dichloropropene	1.8	U	ug/Kg	1	5.1	1.8	2/21/2017 22:11	J
n-Butylbenzene	1.8	U	ug/Kg	1	5.1	1.8	2/21/2017 22:11	J
n-propylbenzene	1.9	U	ug/Kg	1	5.1	1.9	2/21/2017 22:11	J
p-Isopropyltoluene	2.2	U	ug/Kg	1	5.1	2.2	2/21/2017 22:11	J
sec-butylbenzene	1.9	U	ug/Kg	1	5.1	1.9	2/21/2017 22:11	J
tert-butylbenzene	1.9	U	ug/Kg	1	5.1	1.9	2/21/2017 22:11	J
trans-1,2-Dichloroethylene	1.7	U	ug/Kg	1	5.1	1.7	2/21/2017 22:11	J
trans-1,3-Dichloropropylene	1.3	U	ug/Kg	1	5.1	1.3	2/21/2017 22:11	J
1,2-Dichloroethane-d4 (S)	106		%	1	69-134		2/21/2017 22:11	
Toluene-d8 (S)	100		%	1	72-122		2/21/2017 22:11	
Bromofluorobenzene (S)	95		%	1	79-126		2/21/2017 22:11	

VOLATILES

Analysis Desc: Percent
Solids,SM2540G,Soil

Analytical Method: SM 2540G

Percent Moisture	7.9	%	1		2/22/2017 16:00	J
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ANALYTICAL RESULTS

Workorder: J1701621 1101 St. Johns Ave

Lab ID: **J1701621010**

Date Received: 02/14/17 12:50 Matrix: Soil

Sample ID: **SJ-GP-5 (3-4)**

Date Collected: 02/13/17 13:20

Results for sample J1701621010 are reported on a dry weight basis.

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis, Soils			Preparation Method: SW-846 3050B Analytical Method: SW-846 6010					
Arsenic	0.31		mg/Kg	1	0.28	0.25	2/22/2017 18:12	J
Barium	3.8		mg/Kg	1	0.056	0.032	2/22/2017 18:12	J
Cadmium	0.035	U	mg/Kg	1	0.17	0.035	2/22/2017 18:12	J
Chromium	3.9		mg/Kg	1	0.11	0.067	2/22/2017 18:12	J
Lead	5.7		mg/Kg	1	0.20	0.057	2/22/2017 18:12	J
Selenium	0.21	U	mg/Kg	1	0.56	0.21	2/22/2017 18:12	J
Silver	0.033	U	mg/Kg	1	0.11	0.033	2/22/2017 18:12	J
Analysis Desc: SW846 7471A Analysis, Soil			Preparation Method: SW-846 7471A Analytical Method: SW-846 7471A					
Mercury	0.0040	I	mg/Kg	1	0.0055	0.00077	2/16/2017 14:51	J
SEMIVOLATILES								
Analysis Desc: 8270D-SIM Analysis, Soil			Preparation Method: SW-846 3550B Analytical Method: SW-846 8270D (SIM)					
1-Methylnaphthalene	0.011	U	mg/Kg	1	0.037	0.011	2/22/2017 16:57	J
2-Methylnaphthalene	0.015	U	mg/Kg	1	0.037	0.015	2/22/2017 16:57	J
Acenaphthene	0.014	U	mg/Kg	1	0.037	0.014	2/22/2017 16:57	J
Acenaphthylene	0.019	U	mg/Kg	1	0.037	0.019	2/22/2017 16:57	J
Anthracene	0.020	U	mg/Kg	1	0.037	0.020	2/22/2017 16:57	J
Benzo[a]anthracene	0.016	U	mg/Kg	1	0.037	0.016	2/22/2017 16:57	J
Benzo[a]pyrene	0.033	U	mg/Kg	1	0.037	0.033	2/22/2017 16:57	J
Benzo[b]fluoranthene	0.024	U	mg/Kg	1	0.037	0.024	2/22/2017 16:57	J
Benzo[g,h,i]perylene	0.027	U	mg/Kg	1	0.037	0.027	2/22/2017 16:57	J
Benzo[k]fluoranthene	0.024	U	mg/Kg	1	0.037	0.024	2/22/2017 16:57	J
Chrysene	0.020	U	mg/Kg	1	0.037	0.020	2/22/2017 16:57	J
Dibenzo[a,h]anthracene	0.018	U	mg/Kg	1	0.037	0.018	2/22/2017 16:57	J
Fluoranthene	0.025	U	mg/Kg	1	0.037	0.025	2/22/2017 16:57	J
Fluorene	0.016	U	mg/Kg	1	0.037	0.016	2/22/2017 16:57	J
Indeno(1,2,3-cd)pyrene	0.019	U	mg/Kg	1	0.037	0.019	2/22/2017 16:57	J
Naphthalene	0.012	U	mg/Kg	1	0.037	0.012	2/22/2017 16:57	J
Phenanthrene	0.015	U	mg/Kg	1	0.037	0.015	2/22/2017 16:57	J
Pyrene	0.013	U	mg/Kg	1	0.037	0.013	2/22/2017 16:57	J
Nitrobenzene-d5 (S)	70		%	1	33-134		2/22/2017 16:57	
2-Fluorobiphenyl (S)	71		%	1	37-127		2/22/2017 16:57	

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ANALYTICAL RESULTS

Workorder: J1701621 1101 St. Johns Ave

Lab ID: **J1701621010**

Date Received: 02/14/17 12:50 Matrix: Soil

Sample ID: **SJ-GP-5 (3-4)**

Date Collected: 02/13/17 13:20

Results for sample J1701621010 are reported on a dry weight basis.

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
p-Terphenyl-d14 (S)	98		%	1	42-141		2/22/2017 16:57	

VOLATILES

Analysis Desc: 8260C Analysis, Soil

Preparation Method: SW-846 5035

Analytical Method: SW-846 8260C

1,1,1,2-Tetrachloroethane	2.3	U	ug/Kg	1	4.5	2.3	2/21/2017 22:38	J
1,1,1-Trichloroethane	2.1	U	ug/Kg	1	4.5	2.1	2/21/2017 22:38	J
1,1,2,2-Tetrachloroethane	3.0	U	ug/Kg	1	4.5	3.0	2/21/2017 22:38	J
1,1,2-Trichloroethane	2.0	U	ug/Kg	1	4.5	2.0	2/21/2017 22:38	J
1,1-Dichloroethane	1.9	U	ug/Kg	1	4.5	1.9	2/21/2017 22:38	J
1,1-Dichloroethylene	1.8	U	ug/Kg	1	4.5	1.8	2/21/2017 22:38	J
1,1-Dichloropropene	1.6	U	ug/Kg	1	4.5	1.6	2/21/2017 22:38	J
1,2,3-Trichlorobenzene	2.1	U	ug/Kg	1	4.5	2.1	2/21/2017 22:38	J
1,2,3-Trichloropropane	2.0	U	ug/Kg	1	4.5	2.0	2/21/2017 22:38	J
1,2,4-Trichlorobenzene	2.1	U	ug/Kg	1	4.5	2.1	2/21/2017 22:38	J
1,2,4-Trimethylbenzene	1.5	U	ug/Kg	1	4.5	1.5	2/21/2017 22:38	J
1,2-Dibromo-3-Chloropropane	5.9	U	ug/Kg	1	7.5	5.9	2/21/2017 22:38	J
1,2-Dichlorobenzene	2.0	U	ug/Kg	1	4.5	2.0	2/21/2017 22:38	J
1,2-Dichloroethane	2.1	U	ug/Kg	1	4.5	2.1	2/21/2017 22:38	J
1,2-Dichloropropane	1.9	U	ug/Kg	1	4.5	1.9	2/21/2017 22:38	J
1,3,5-Trimethylbenzene	1.5	U	ug/Kg	1	4.5	1.5	2/21/2017 22:38	J
1,3-Dichlorobenzene	1.9	U	ug/Kg	1	4.5	1.9	2/21/2017 22:38	J
1,3-Dichloropropane	2.4	U	ug/Kg	1	4.5	2.4	2/21/2017 22:38	J
1,4-Dichlorobenzene	1.7	U	ug/Kg	1	4.5	1.7	2/21/2017 22:38	J
2,2-Dichloropropane	1.5	U	ug/Kg	1	7.5	1.5	2/21/2017 22:38	J
2-Butanone (MEK)	3.2	U	ug/Kg	1	7.5	3.2	2/21/2017 22:38	J
2-Chlorotoluene	1.5	U	ug/Kg	1	4.5	1.5	2/21/2017 22:38	J
2-Hexanone	2.8	U	ug/Kg	1	7.5	2.8	2/21/2017 22:38	J
4-Chlorotoluene	1.9	U	ug/Kg	1	4.5	1.9	2/21/2017 22:38	J
4-Methyl-2-pentanone (MIBK)	1.6	U	ug/Kg	1	7.5	1.6	2/21/2017 22:38	J
Acetone	3.8	I	ug/Kg	1	15	3.8	2/21/2017 22:38	J
Benzene	1.8	U	ug/Kg	1	4.5	1.8	2/21/2017 22:38	J
Bromobenzene	1.9	U	ug/Kg	1	4.5	1.9	2/21/2017 22:38	J
Bromodichloromethane	2.0	U	ug/Kg	1	4.5	2.0	2/21/2017 22:38	J
Bromoform	2.9	U	ug/Kg	1	7.5	2.9	2/21/2017 22:38	J
Bromomethane	1.9	U	ug/Kg	1	4.5	1.9	2/21/2017 22:38	J
Carbon Disulfide	1.8	U	ug/Kg	1	7.5	1.8	2/21/2017 22:38	J
Carbon Tetrachloride	2.1	U	ug/Kg	1	4.5	2.1	2/21/2017 22:38	J
Chlorobenzene	2.2	U	ug/Kg	1	4.5	2.2	2/21/2017 22:38	J

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ANALYTICAL RESULTS

Workorder: J1701621 1101 St. Johns Ave

Lab ID: **J1701621010**

Date Received: 02/14/17 12:50 Matrix: Soil

Sample ID: **SJ-GP-5 (3-4)**

Date Collected: 02/13/17 13:20

Results for sample J1701621010 are reported on a dry weight basis.

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Chloroethane	1.5	U	ug/Kg	1	4.5	1.5	2/21/2017 22:38	J
Chloroform	2.0	U	ug/Kg	1	4.5	2.0	2/21/2017 22:38	J
Chloromethane	1.5	U	ug/Kg	1	4.5	1.5	2/21/2017 22:38	J
Dibromochloromethane	2.0	U	ug/Kg	1	4.5	2.0	2/21/2017 22:38	J
Dichlorodifluoromethane	1.3	U	ug/Kg	1	4.5	1.3	2/21/2017 22:38	J
Ethylbenzene	1.6	U	ug/Kg	1	4.5	1.6	2/21/2017 22:38	J
Ethylene Dibromide (EDB)	2.1	U	ug/Kg	1	4.5	2.1	2/21/2017 22:38	J
Hexachlorobutadiene	2.4	U	ug/Kg	1	4.5	2.4	2/21/2017 22:38	J
Isopropylbenzene	1.9	U	ug/Kg	1	4.5	1.9	2/21/2017 22:38	J
Methyl tert-butyl Ether (MTBE)	1.7	U	ug/Kg	1	4.5	1.7	2/21/2017 22:38	J
Methylene Chloride	4.2	U	ug/Kg	1	15	4.2	2/21/2017 22:38	J
Naphthalene	2.6	U	ug/Kg	1	4.5	2.6	2/21/2017 22:38	J
Styrene	1.5	U	ug/Kg	1	4.5	1.5	2/21/2017 22:38	J
Tetrachloroethylene (PCE)	1.8	U	ug/Kg	1	4.5	1.8	2/21/2017 22:38	J
Toluene	2.1	U	ug/Kg	1	4.5	2.1	2/21/2017 22:38	J
Trichloroethene	1.5	U	ug/Kg	1	4.5	1.5	2/21/2017 22:38	J
Trichlorofluoromethane	1.4	U	ug/Kg	1	4.5	1.4	2/21/2017 22:38	J
Vinyl Chloride	1.8	U	ug/Kg	1	4.5	1.8	2/21/2017 22:38	J
Xylene (Total)	5.7	U	ug/Kg	1	14	5.7	2/21/2017 22:38	J
cis-1,2-Dichloroethylene	2.1	U	ug/Kg	1	4.5	2.1	2/21/2017 22:38	J
cis-1,3-Dichloropropene	1.6	U	ug/Kg	1	4.5	1.6	2/21/2017 22:38	J
n-Butylbenzene	1.6	U	ug/Kg	1	4.5	1.6	2/21/2017 22:38	J
n-propylbenzene	1.7	U	ug/Kg	1	4.5	1.7	2/21/2017 22:38	J
p-Isopropyltoluene	2.0	U	ug/Kg	1	4.5	2.0	2/21/2017 22:38	J
sec-butylbenzene	1.7	U	ug/Kg	1	4.5	1.7	2/21/2017 22:38	J
tert-butylbenzene	1.7	U	ug/Kg	1	4.5	1.7	2/21/2017 22:38	J
trans-1,2-Dichloroethylene	1.5	U	ug/Kg	1	4.5	1.5	2/21/2017 22:38	J
trans-1,3-Dichloropropylene	1.1	U	ug/Kg	1	4.5	1.1	2/21/2017 22:38	J
1,2-Dichloroethane-d4 (S)	104		%	1	69-134		2/21/2017 22:38	
Toluene-d8 (S)	101		%	1	72-122		2/21/2017 22:38	
Bromofluorobenzene (S)	88		%	1	79-126		2/21/2017 22:38	

VOLATILES

Analysis Desc: Percent
Solids,SM2540G,Soil

Analytical Method: SM 2540G

Percent Moisture	13	%	1		2/22/2017 16:00	J
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ANALYTICAL RESULTS

Workorder: J1701621 1101 St. Johns Ave

Lab ID: **J1701621011**

Date Received: 02/14/17 12:50 Matrix: Soil

Sample ID: **SJ-GP-6 (2-3)**

Date Collected: 02/13/17 13:25

Results for sample J1701621011 are reported on a dry weight basis.

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B Analysis, Soils			Preparation Method: SW-846 3050B Analytical Method: SW-846 6010					
Arsenic	3.1		mg/Kg	1	0.31	0.28	2/22/2017 18:17	J
Barium	28		mg/Kg	1	0.062	0.035	2/22/2017 18:17	J
Cadmium	0.32		mg/Kg	1	0.19	0.039	2/22/2017 18:17	J
Chromium	8.8		mg/Kg	1	0.12	0.074	2/22/2017 18:17	J
Lead	190		mg/Kg	1	0.22	0.062	2/22/2017 18:17	J
Selenium	0.23	U	mg/Kg	1	0.62	0.23	2/22/2017 18:17	J
Silver	0.17		mg/Kg	1	0.12	0.037	2/22/2017 18:17	J
Analysis Desc: SW846 7471A Analysis, Soil			Preparation Method: SW-846 7471A Analytical Method: SW-846 7471A					
Mercury	0.12		mg/Kg	1	0.0062	0.00087	2/16/2017 14:54	J
SEMIVOLATILES								
Analysis Desc: 8270D-SIM Analysis, Soil			Preparation Method: SW-846 3550B Analytical Method: SW-846 8270D (SIM)					
1-Methylnaphthalene	0.012	U	mg/Kg	1	0.041	0.012	2/22/2017 21:43	J
2-Methylnaphthalene	0.017	U	mg/Kg	1	0.041	0.017	2/22/2017 21:43	J
Acenaphthene	0.016	U	mg/Kg	1	0.041	0.016	2/22/2017 21:43	J
Acenaphthylene	0.021	U	mg/Kg	1	0.041	0.021	2/22/2017 21:43	J
Anthracene	0.022	U	mg/Kg	1	0.041	0.022	2/22/2017 21:43	J
Benzo[a]anthracene	0.055		mg/Kg	1	0.041	0.018	2/22/2017 21:43	J
Benzo[a]pyrene	0.057		mg/Kg	1	0.041	0.036	2/22/2017 21:43	J
Benzo[b]fluoranthene	0.089		mg/Kg	1	0.041	0.026	2/22/2017 21:43	J
Benzo[g,h,i]perylene	0.070		mg/Kg	1	0.041	0.029	2/22/2017 21:43	J
Benzo[k]fluoranthene	0.033	I	mg/Kg	1	0.041	0.027	2/22/2017 21:43	J
Chrysene	0.092		mg/Kg	1	0.041	0.022	2/22/2017 21:43	J
Dibenzo[a,h]anthracene	0.020	U	mg/Kg	1	0.041	0.020	2/22/2017 21:43	J
Fluoranthene	0.13		mg/Kg	1	0.041	0.027	2/22/2017 21:43	J
Fluorene	0.018	U	mg/Kg	1	0.041	0.018	2/22/2017 21:43	J
Indeno(1,2,3-cd)pyrene	0.048		mg/Kg	1	0.041	0.022	2/22/2017 21:43	J
Naphthalene	0.013	U	mg/Kg	1	0.041	0.013	2/22/2017 21:43	J
Phenanthrene	0.042		mg/Kg	1	0.041	0.017	2/22/2017 21:43	J
Pyrene	0.13		mg/Kg	1	0.041	0.015	2/22/2017 21:43	J
Nitrobenzene-d5 (S)	85		%	1	33-134		2/22/2017 21:43	
2-Fluorobiphenyl (S)	87		%	1	37-127		2/22/2017 21:43	

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ANALYTICAL RESULTS

Workorder: J1701621 1101 St. Johns Ave

Lab ID: **J1701621011**

Date Received: 02/14/17 12:50 Matrix: Soil

Sample ID: **SJ-GP-6 (2-3)**

Date Collected: 02/13/17 13:25

Results for sample J1701621011 are reported on a dry weight basis.

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
p-Terphenyl-d14 (S)	100		%	1	42-141		2/22/2017 21:43	

VOLATILES

Analysis Desc: 8260C Analysis, Soil

Preparation Method: SW-846 5035

Analytical Method: SW-846 8260C

1,1,1,2-Tetrachloroethane	2.8	U	ug/Kg	1	5.5	2.8	2/21/2017 23:06	J
1,1,1-Trichloroethane	2.6	U	ug/Kg	1	5.5	2.6	2/21/2017 23:06	J
1,1,2,2-Tetrachloroethane	3.6	U	ug/Kg	1	5.5	3.6	2/21/2017 23:06	J
1,1,2-Trichloroethane	2.5	U	ug/Kg	1	5.5	2.5	2/21/2017 23:06	J
1,1-Dichloroethane	2.3	U	ug/Kg	1	5.5	2.3	2/21/2017 23:06	J
1,1-Dichloroethylene	2.2	U	ug/Kg	1	5.5	2.2	2/21/2017 23:06	J
1,1-Dichloropropene	1.9	U	ug/Kg	1	5.5	1.9	2/21/2017 23:06	J
1,2,3-Trichlorobenzene	2.5	U	ug/Kg	1	5.5	2.5	2/21/2017 23:06	J
1,2,3-Trichloropropane	2.5	U	ug/Kg	1	5.5	2.5	2/21/2017 23:06	J
1,2,4-Trichlorobenzene	2.6	U	ug/Kg	1	5.5	2.6	2/21/2017 23:06	J
1,2,4-Trimethylbenzene	1.9	U	ug/Kg	1	5.5	1.9	2/21/2017 23:06	J
1,2-Dibromo-3-Chloropropane	7.2	U	ug/Kg	1	9.2	7.2	2/21/2017 23:06	J
1,2-Dichlorobenzene	2.4	U	ug/Kg	1	5.5	2.4	2/21/2017 23:06	J
1,2-Dichloroethane	2.6	U	ug/Kg	1	5.5	2.6	2/21/2017 23:06	J
1,2-Dichloropropane	2.3	U	ug/Kg	1	5.5	2.3	2/21/2017 23:06	J
1,3,5-Trimethylbenzene	1.8	U	ug/Kg	1	5.5	1.8	2/21/2017 23:06	J
1,3-Dichlorobenzene	2.3	U	ug/Kg	1	5.5	2.3	2/21/2017 23:06	J
1,3-Dichloropropane	3.0	U	ug/Kg	1	5.5	3.0	2/21/2017 23:06	J
1,4-Dichlorobenzene	2.1	U	ug/Kg	1	5.5	2.1	2/21/2017 23:06	J
2,2-Dichloropropane	1.8	U	ug/Kg	1	9.2	1.8	2/21/2017 23:06	J
2-Butanone (MEK)	3.9	U	ug/Kg	1	9.2	3.9	2/21/2017 23:06	J
2-Chlorotoluene	1.9	U	ug/Kg	1	5.5	1.9	2/21/2017 23:06	J
2-Hexanone	3.4	U	ug/Kg	1	9.2	3.4	2/21/2017 23:06	J
4-Chlorotoluene	2.3	U	ug/Kg	1	5.5	2.3	2/21/2017 23:06	J
4-Methyl-2-pentanone (MIBK)	1.9	U	ug/Kg	1	9.2	1.9	2/21/2017 23:06	J
Acetone	4.6	U	ug/Kg	1	18	4.6	2/21/2017 23:06	J
Benzene	2.2	U	ug/Kg	1	5.5	2.2	2/21/2017 23:06	J
Bromobenzene	2.3	U	ug/Kg	1	5.5	2.3	2/21/2017 23:06	J
Bromodichloromethane	2.4	U	ug/Kg	1	5.5	2.4	2/21/2017 23:06	J
Bromoform	3.6	U	ug/Kg	1	9.2	3.6	2/21/2017 23:06	J
Bromomethane	2.4	U	ug/Kg	1	5.5	2.4	2/21/2017 23:06	J
Carbon Disulfide	2.2	U	ug/Kg	1	9.2	2.2	2/21/2017 23:06	J
Carbon Tetrachloride	2.6	U	ug/Kg	1	5.5	2.6	2/21/2017 23:06	J
Chlorobenzene	2.7	U	ug/Kg	1	5.5	2.7	2/21/2017 23:06	J

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ANALYTICAL RESULTS

Workorder: J1701621 1101 St. Johns Ave

Lab ID: **J1701621011**

Date Received: 02/14/17 12:50 Matrix: Soil

Sample ID: **SJ-GP-6 (2-3)**

Date Collected: 02/13/17 13:25

Results for sample J1701621011 are reported on a dry weight basis.

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Chloroethane	1.8	U	ug/Kg	1	5.5	1.8	2/21/2017 23:06	J
Chloroform	2.4	U	ug/Kg	1	5.5	2.4	2/21/2017 23:06	J
Chloromethane	1.9	U	ug/Kg	1	5.5	1.9	2/21/2017 23:06	J
Dibromochloromethane	2.4	U	ug/Kg	1	5.5	2.4	2/21/2017 23:06	J
Dichlorodifluoromethane	1.5	U	ug/Kg	1	5.5	1.5	2/21/2017 23:06	J
Ethylbenzene	2.0	U	ug/Kg	1	5.5	2.0	2/21/2017 23:06	J
Ethylene Dibromide (EDB)	2.5	U	ug/Kg	1	5.5	2.5	2/21/2017 23:06	J
Hexachlorobutadiene	3.0	U	ug/Kg	1	5.5	3.0	2/21/2017 23:06	J
Isopropylbenzene	2.3	U	ug/Kg	1	5.5	2.3	2/21/2017 23:06	J
Methyl tert-butyl Ether (MTBE)	2.1	U	ug/Kg	1	5.5	2.1	2/21/2017 23:06	J
Methylene Chloride	5.1	U	ug/Kg	1	18	5.1	2/21/2017 23:06	J
Naphthalene	3.2	U	ug/Kg	1	5.5	3.2	2/21/2017 23:06	J
Styrene	1.8	U	ug/Kg	1	5.5	1.8	2/21/2017 23:06	J
Tetrachloroethylene (PCE)	2.2	U	ug/Kg	1	5.5	2.2	2/21/2017 23:06	J
Toluene	2.5	U	ug/Kg	1	5.5	2.5	2/21/2017 23:06	J
Trichloroethene	1.9	U	ug/Kg	1	5.5	1.9	2/21/2017 23:06	J
Trichlorofluoromethane	1.7	U	ug/Kg	1	5.5	1.7	2/21/2017 23:06	J
Vinyl Chloride	2.2	U	ug/Kg	1	5.5	2.2	2/21/2017 23:06	J
Xylene (Total)	7.0	U	ug/Kg	1	17	7.0	2/21/2017 23:06	J
cis-1,2-Dichloroethylene	2.6	U	ug/Kg	1	5.5	2.6	2/21/2017 23:06	J
cis-1,3-Dichloropropene	1.9	U	ug/Kg	1	5.5	1.9	2/21/2017 23:06	J
n-Butylbenzene	2.0	U	ug/Kg	1	5.5	2.0	2/21/2017 23:06	J
n-propylbenzene	2.1	U	ug/Kg	1	5.5	2.1	2/21/2017 23:06	J
p-Isopropyltoluene	2.4	U	ug/Kg	1	5.5	2.4	2/21/2017 23:06	J
sec-butylbenzene	2.1	U	ug/Kg	1	5.5	2.1	2/21/2017 23:06	J
tert-butylbenzene	2.0	U	ug/Kg	1	5.5	2.0	2/21/2017 23:06	J
trans-1,2-Dichloroethylene	1.8	U	ug/Kg	1	5.5	1.8	2/21/2017 23:06	J
trans-1,3-Dichloropropylene	1.4	U	ug/Kg	1	5.5	1.4	2/21/2017 23:06	J
1,2-Dichloroethane-d4 (S)	103		%	1	69-134		2/21/2017 23:06	
Toluene-d8 (S)	100		%	1	72-122		2/21/2017 23:06	
Bromofluorobenzene (S)	90		%	1	79-126		2/21/2017 23:06	

VOLATILES

Analysis Desc: Percent
Solids,SM2540G,Soil

Analytical Method: SM 2540G

Percent Moisture	20	%	1		2/22/2017 16:00	J
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ANALYTICAL RESULTS QUALIFIERS

Workorder: J1701621 1101 St. Johns Ave

PARAMETER QUALIFIERS

- U The compound was analyzed for but not detected.
- I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- J4 Estimated Result

LAB QUALIFIERS

- J DOH Certification #E82574(AEL-JAX)(FL NELAC Certification)

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QUALITY CONTROL DATA

Workorder: J1701621 1101 St. Johns Ave

QC Batch: DGMj/2545 Analysis Method: SW-846 7471A
QC Batch Method: SW-846 7471A Prepared: 02/16/2017 10:20
Associated Lab Samples: J1701621001, J1701621002, J1701621004, J1701621005, J1701621006, J1701621007, J1701621008, J1701621009,
METHOD BLANK: 2274437

Parameter	Units	Blank Result	Reporting Limit Qualifiers
METALS			
Mercury	mg/Kg	0.00042	0.00042 U

LABORATORY CONTROL SAMPLE & LCSD: 2274438 2274439

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS										
Mercury	mg/Kg	0.06	0.065	0.054	108	89	80-120	19	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2274440 2274441 Original: A1701210001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Mercury	mg/Kg	0.024	0.1	0.13	0.13	93	95	80-120	1	20	

QC Batch: DGMj/2562 Analysis Method: SW-846 6010
QC Batch Method: SW-846 3050B Prepared: 02/21/2017 03:30
Associated Lab Samples: J1701621001, J1701621002, J1701621004, J1701621005, J1701621006, J1701621007, J1701621008, J1701621009,
METHOD BLANK: 2277706

Parameter	Units	Blank Result	Reporting Limit Qualifiers
METALS			
Silver	mg/Kg	0.030	0.030 U
Arsenic	mg/Kg	0.23	0.23 U
Barium	mg/Kg	0.028	0.028 U
Cadmium	mg/Kg	0.031	0.031 U
Chromium	mg/Kg	0.059	0.059 U
Lead	mg/Kg	0.050	0.050 U
Selenium	mg/Kg	0.19	0.19 U

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QUALITY CONTROL DATA

Workorder: J1701621 1101 St. Johns Ave

METHOD BLANK: 2277706

LABORATORY CONTROL SAMPLE & LCSD: 2277707 2277708

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS										
Silver	mg/Kg	10	10	10	101	100	80-120	1	20	
Arsenic	mg/Kg	10	11	10	107	105	80-120	2	20	
Barium	mg/Kg	10	11	11	107	106	80-120	1	20	
Cadmium	mg/Kg	10	11	11	106	105	80-120	1	20	
Chromium	mg/Kg	10	11	11	109	107	80-120	2	20	
Lead	mg/Kg	10	9.9	9.8	99	98	80-120	2	20	
Selenium	mg/Kg	10	11	10	106	104	80-120	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2277709 2277710 Original: J1701765001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	Max RPD	RPD	Qualifiers
METALS											
Silver	mg/Kg	0	10	12	12	104	102	75-125	3	20	
Arsenic	mg/Kg	0	10	12	12	103	101	75-125	3	20	
Barium	mg/Kg	0	10	22	21	187	184	75-125	3	20	
Cadmium	mg/Kg	0	10	13	12	108	105	75-125	4	20	
Chromium	mg/Kg	0	10	16	15	134	129	75-125	4	20	
Lead	mg/Kg	3.8	10	16	15	96	91	75-125	5	20	
Selenium	mg/Kg	0	10	12	12	103	101	75-125	3	20	

QC Batch: EXTj/3174

Analysis Method: SW-846 8270D (SIM)

QC Batch Method: SW-846 3550B

Prepared: 02/21/2017 10:00

Associated Lab Samples: J1701621001, J1701621002, J1701621003, J1701621004, J1701621005, J1701621006, J1701621007, J1701621008,

METHOD BLANK: 2278628

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
SEMIVOLATILES				
Naphthalene	mg/Kg	0.010	0.010	U
2-Methylnaphthalene	mg/Kg	0.013	0.013	U
1-Methylnaphthalene	mg/Kg	0.0096	0.0096	U
Acenaphthylene	mg/Kg	0.017	0.017	U

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QUALITY CONTROL DATA

Workorder: J1701621 1101 St. Johns Ave

METHOD BLANK: 2278628

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Acenaphthene	mg/Kg	0.013	0.013	U
Fluorene	mg/Kg	0.015	0.015	U
Phenanthrene	mg/Kg	0.014	0.014	U
Anthracene	mg/Kg	0.018	0.018	U
Fluoranthene	mg/Kg	0.022	0.022	U
Pyrene	mg/Kg	0.012	0.012	U
Benzo[a]anthracene	mg/Kg	0.014	0.014	U
Chrysene	mg/Kg	0.017	0.017	U
Benzo[b]fluoranthene	mg/Kg	0.021	0.021	U
Benzo[k]fluoranthene	mg/Kg	0.022	0.022	U
Benzo[a]pyrene	mg/Kg	0.029	0.029	U
Indeno(1,2,3-cd)pyrene	mg/Kg	0.017	0.017	U
Dibenzo[a,h]anthracene	mg/Kg	0.016	0.016	U
Benzo[g,h,i]perylene	mg/Kg	0.024	0.024	U
Nitrobenzene-d5 (S)	%	82	33-134	
2-Fluorobiphenyl (S)	%	77	37-127	
p-Terphenyl-d14 (S)	%	96	42-141	

LABORATORY CONTROL SAMPLE: 2278629

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
SEMIVOLATILES						
Naphthalene	mg/Kg	0.82	0.72	88	38-120	
2-Methylnaphthalene	mg/Kg	0.82	0.71	86	39-120	
1-Methylnaphthalene	mg/Kg	0.82	0.75	91	43-120	
Acenaphthylene	mg/Kg	0.82	0.71	86	39-118	
Acenaphthene	mg/Kg	0.82	0.76	92	44-117	
Fluorene	mg/Kg	0.82	0.80	97	47-121	
Phenanthrene	mg/Kg	0.82	0.76	93	49-122	
Anthracene	mg/Kg	0.82	0.79	96	50-123	
Fluoranthene	mg/Kg	0.82	0.88	107	51-126	
Pyrene	mg/Kg	0.82	0.77	93	51-127	
Benzo[a]anthracene	mg/Kg	0.82	0.76	92	52-126	
Chrysene	mg/Kg	0.82	0.85	103	52-128	
Benzo[b]fluoranthene	mg/Kg	0.82	0.74	89	43-132	
Benzo[k]fluoranthene	mg/Kg	0.82	0.77	94	46-133	
Benzo[a]pyrene	mg/Kg	0.82	0.75	91	42-129	
Indeno(1,2,3-cd)pyrene	mg/Kg	0.82	0.79	96	39-135	
Dibenzo[a,h]anthracene	mg/Kg	0.82	0.81	98	40-139	
Benzo[g,h,i]perylene	mg/Kg	0.82	0.79	96	41-133	
Nitrobenzene-d5 (S)	%			90	33-134	

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QUALITY CONTROL DATA

Workorder: J1701621 1101 St. Johns Ave

LABORATORY CONTROL SAMPLE: 2278629

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits Qualifiers
2-Fluorobiphenyl (S)	%			86	37-127
p-Terphenyl-d14 (S)	%			98	42-141

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2278630 2278631 Original: J1701770014

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	Max RPD	RPD	Qualifiers
SEMIVOLATILES											
Naphthalene	mg/Kg	0	0.83	0.68	0.67	79	77	38-120	2	30	
2-Methylnaphthalene	mg/Kg	0	0.83	0.68	0.68	79	79	39-120	0	30	
1-Methylnaphthalene	mg/Kg	0	0.83	0.71	0.72	83	83	43-120	1	30	
Acenaphthylene	mg/Kg	0	0.83	0.70	0.72	81	84	39-118	3	30	
Acenaphthene	mg/Kg	0	0.83	0.74	0.76	87	88	44-117	2	30	
Fluorene	mg/Kg	0	0.83	0.80	0.82	94	95	47-121	2	30	
Phenanthrene	mg/Kg	0	0.83	0.81	0.81	94	95	49-122	1	30	
Anthracene	mg/Kg	0	0.83	0.84	0.84	98	98	50-123	0	30	
Fluoranthene	mg/Kg	0	0.83	0.95	0.95	110	111	51-126	1	30	
Pyrene	mg/Kg	0	0.83	0.82	0.82	95	95	51-127	1	30	
Benzo[a]anthracene	mg/Kg	0	0.83	0.81	0.80	94	93	52-126	2	30	
Chrysene	mg/Kg	0	0.83	0.88	0.88	103	102	52-128	1	30	
Benzo[b]fluoranthene	mg/Kg	0	0.83	0.77	0.79	90	92	43-132	3	30	
Benzo[k]fluoranthene	mg/Kg	0	0.83	0.81	0.82	94	95	46-133	1	30	
Benzo[a]pyrene	mg/Kg	0	0.83	0.78	0.79	91	92	42-129	1	30	
Indeno(1,2,3-cd)pyrene	mg/Kg	0	0.83	0.83	0.81	96	95	39-135	2	30	
Dibenzo[a,h]anthracene	mg/Kg	0	0.83	0.86	0.83	101	97	40-139	4	30	
Benzo[g,h,i]perylene	mg/Kg	0	0.83	0.82	0.83	95	97	41-133	2	30	
Nitrobenzene-d5 (S)	%	72				77	77	33-134	0	30	
2-Fluorobiphenyl (S)	%	72				76	77	37-127	2	30	
p-Terphenyl-d14 (S)	%	100				97	97	42-141	0	30	

QC Batch: MSVj/3319

Analysis Method: SW-846 8260C

QC Batch Method: SW-846 5035

Prepared: 02/21/2017 14:53

Associated Lab Samples: J1701621001, J1701621002, J1701621004, J1701621005, J1701621006, J1701621007, J1701621008, J1701621009,

METHOD BLANK: 2278855

Parameter	Units	Blank Result	Reporting Limit Qualifiers
VOLATILES			

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QUALITY CONTROL DATA

Workorder: J1701621 1101 St. Johns Ave

METHOD BLANK: 2278855

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Dichlorodifluoromethane	ug/Kg	0.84	0.84	U
Chloromethane	ug/Kg	1.0	1.0	U
Vinyl Chloride	ug/Kg	1.2	1.2	U
Bromomethane	ug/Kg	1.3	1.3	U
Chloroethane	ug/Kg	1.0	1.0	U
Trichlorofluoromethane	ug/Kg	0.91	0.91	U
Acetone	ug/Kg	2.5	2.5	U
1,1-Dichloroethylene	ug/Kg	1.2	1.2	U
Methylene Chloride	ug/Kg	2.8	2.8	U
Carbon Disulfide	ug/Kg	1.2	1.2	U
trans-1,2-Dichloroethylene	ug/Kg	0.98	0.98	U
Methyl tert-butyl Ether (MTBE)	ug/Kg	1.1	1.1	U
1,1-Dichloroethane	ug/Kg	1.3	1.3	U
2-Butanone (MEK)	ug/Kg	2.1	2.1	U
cis-1,2-Dichloroethylene	ug/Kg	1.4	1.4	U
Chloroform	ug/Kg	1.3	1.3	U
2,2-Dichloropropane	ug/Kg	0.97	0.97	U
1,2-Dichloroethane	ug/Kg	1.4	1.4	U
1,1,1-Trichloroethane	ug/Kg	1.4	1.4	U
1,1-Dichloropropene	ug/Kg	1.1	1.1	U
Carbon Tetrachloride	ug/Kg	1.4	1.4	U
Benzene	ug/Kg	1.2	1.2	U
1,2-Dichloropropane	ug/Kg	1.2	1.2	U
Trichloroethene	ug/Kg	1.0	1.0	U
Bromodichloromethane	ug/Kg	1.3	1.3	U
cis-1,3-Dichloropropene	ug/Kg	1.1	1.1	U
4-Methyl-2-pentanone (MIBK)	ug/Kg	1.1	1.1	U
trans-1,3-Dichloropropylene	ug/Kg	0.75	0.75	U
1,1,2-Trichloroethane	ug/Kg	1.3	1.3	U
Toluene	ug/Kg	1.4	1.4	U
1,3-Dichloropropane	ug/Kg	1.6	1.6	U
2-Hexanone	ug/Kg	1.9	1.9	U
Dibromochloromethane	ug/Kg	1.3	1.3	U
Ethylene Dibromide (EDB)	ug/Kg	1.4	1.4	U
Tetrachloroethylene (PCE)	ug/Kg	1.2	1.2	U
1,1,1,2-Tetrachloroethane	ug/Kg	1.5	1.5	U
Chlorobenzene	ug/Kg	1.4	1.4	U
Ethylbenzene	ug/Kg	1.1	1.1	U
Bromoform	ug/Kg	1.9	1.9	U
Styrene	ug/Kg	0.98	0.98	U
1,1,2,2-Tetrachloroethane	ug/Kg	2.0	2.0	U
1,2,3-Trichloropropane	ug/Kg	1.4	1.4	U
Isopropylbenzene	ug/Kg	1.2	1.2	U
Bromobenzene	ug/Kg	1.2	1.2	U

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QUALITY CONTROL DATA

Workorder: J1701621 1101 St. Johns Ave

METHOD BLANK: 2278855

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
n-propylbenzene	ug/Kg	1.1	1.1	U
2-Chlorotoluene	ug/Kg	1.0	1.0	U
4-Chlorotoluene	ug/Kg	1.2	1.2	U
1,3,5-Trimethylbenzene	ug/Kg	1.0	1.0	U
tert-butylbenzene	ug/Kg	1.1	1.1	U
1,2,4-Trimethylbenzene	ug/Kg	1.0	1.0	U
sec-butylbenzene	ug/Kg	1.1	1.1	U
1,3-Dichlorobenzene	ug/Kg	1.3	1.3	U
1,4-Dichlorobenzene	ug/Kg	1.1	1.1	U
1,2-Dichlorobenzene	ug/Kg	1.3	1.3	U
p-Isopropyltoluene	ug/Kg	1.3	1.3	U
n-Butylbenzene	ug/Kg	1.1	1.1	U
1,2-Dibromo-3-Chloropropane	ug/Kg	3.9	3.9	U
1,2,4-Trichlorobenzene	ug/Kg	1.4	1.4	U
Naphthalene	ug/Kg	1.7	1.7	U
Hexachlorobutadiene	ug/Kg	1.6	1.6	U
1,2,3-Trichlorobenzene	ug/Kg	1.4	1.4	U
Xylene (Total)	ug/Kg	3.8	3.8	U
1,2-Dichloroethane-d4 (S)	%	99	69-134	
Toluene-d8 (S)	%	101	72-122	
Bromofluorobenzene (S)	%	94	79-126	

LABORATORY CONTROL SAMPLE & LCSD: 2278856 2278857

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
VOLATILES										
Vinyl Chloride	ug/Kg	20	15	21	73	105	70-130	36		
1,1-Dichloroethylene	ug/Kg	20	19	21	94	107	70-130	13		
Methyl tert-butyl Ether (MTBE)	ug/Kg	20	20	21	102	107	70-130	5		
cis-1,2-Dichloroethylene	ug/Kg	20	19	21	95	103	70-130	8		
Chloroform	ug/Kg	20	20	21	99	107	70-130	8		
Benzene	ug/Kg	20	20	21	99	103	70-130	4		
Trichloroethene	ug/Kg	20	18	21	90	105	70-130	15		
Toluene	ug/Kg	20	20	21	98	103	70-130	4		
Tetrachloroethylene (PCE)	ug/Kg	20	15	25	74	124	70-130	50		
Chlorobenzene	ug/Kg	20	21	21	104	106	70-130	1		
Ethylbenzene	ug/Kg	20	21	20	104	100	70-130	4		
1,2,4-Trimethylbenzene	ug/Kg	20	21	21	107	105	70-130	2		
1,3-Dichlorobenzene	ug/Kg	20	23	20	114	101	70-130	12		
1,2-Dichlorobenzene	ug/Kg	20	21	21	107	103	70-130	3		

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QUALITY CONTROL DATA

Workorder: J1701621 1101 St. Johns Ave

LABORATORY CONTROL SAMPLE & LCSD: 2278856 2278857

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Xylene (Total)	ug/Kg	60	63	61	104	101	70-130	3		
1,2-Dichloroethane-d4 (S)	%				99	101	69-134	2		
Toluene-d8 (S)	%				97	99	72-122	3		
Bromofluorobenzene (S)	%				110	104	79-126	5		

MATRIX SPIKE SAMPLE: 2278858 Original: J1701621001

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
VOLATILES							
Vinyl Chloride	ug/Kg	0	37	36	78	70-130	
1,1-Dichloroethylene	ug/Kg	0	37	35	77	70-130	
Methyl tert-butyl Ether (MTBE)	ug/Kg	0	37	42	92	70-130	
cis-1,2-Dichloroethylene	ug/Kg	0	37	36	78	70-130	
Chloroform	ug/Kg	0	37	38	82	70-130	
Benzene	ug/Kg	0	37	36	78	70-130	
Trichloroethene	ug/Kg	0	37	31	68	70-130	
Toluene	ug/Kg	0	37	32	70	70-130	
Tetrachloroethylene (PCE)	ug/Kg	0	37	29	62	70-130	
Chlorobenzene	ug/Kg	0	37	30	65	70-130	
Ethylbenzene	ug/Kg	0	37	30	66	70-130	
1,2,4-Trimethylbenzene	ug/Kg	0.67	37	26	56	70-130	
1,3-Dichlorobenzene	ug/Kg	0	37	23	50	70-130	
1,2-Dichlorobenzene	ug/Kg	0	37	23	50	70-130	
Xylene (Total)	ug/Kg	0	110	86	62	70-130	
1,2-Dichloroethane-d4 (S)	%	102			103	69-134	
Toluene-d8 (S)	%	103			100	72-122	
Bromofluorobenzene (S)	%	94			99	79-126	

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: J1701621 1101 St. Johns Ave

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J1701621001	SJ-MW-1 (0-1)	SW-846 7471A	DGMj/2545	SW-846 7471A	CVAj/1341
J1701621002	SJ-MW-2 (1-2)	SW-846 7471A	DGMj/2545	SW-846 7471A	CVAj/1341
J1701621004	SJ-MW-3 (3-4)	SW-846 7471A	DGMj/2545	SW-846 7471A	CVAj/1341
J1701621005	SJ-MW-4 (1-2)	SW-846 7471A	DGMj/2545	SW-846 7471A	CVAj/1341
J1701621006	SJ-GP-1 (1-2)	SW-846 7471A	DGMj/2545	SW-846 7471A	CVAj/1341
J1701621007	SJ-GP-2 (2-3)	SW-846 7471A	DGMj/2545	SW-846 7471A	CVAj/1341
J1701621008	SJ-GP-3 (1-2)	SW-846 7471A	DGMj/2545	SW-846 7471A	CVAj/1341
J1701621009	SJ-GP-4 (0-1)	SW-846 7471A	DGMj/2545	SW-846 7471A	CVAj/1341
J1701621010	SJ-GP-5 (3-4)	SW-846 7471A	DGMj/2545	SW-846 7471A	CVAj/1341
J1701621011	SJ-GP-6 (2-3)	SW-846 7471A	DGMj/2545	SW-846 7471A	CVAj/1341
J1701621001	SJ-MW-1 (0-1)	SW-846 3050B	DGMj/2562	SW-846 6010	ICPj/1793
J1701621002	SJ-MW-2 (1-2)	SW-846 3050B	DGMj/2562	SW-846 6010	ICPj/1793
J1701621004	SJ-MW-3 (3-4)	SW-846 3050B	DGMj/2562	SW-846 6010	ICPj/1793
J1701621005	SJ-MW-4 (1-2)	SW-846 3050B	DGMj/2562	SW-846 6010	ICPj/1793
J1701621006	SJ-GP-1 (1-2)	SW-846 3050B	DGMj/2562	SW-846 6010	ICPj/1793
J1701621007	SJ-GP-2 (2-3)	SW-846 3050B	DGMj/2562	SW-846 6010	ICPj/1793
J1701621008	SJ-GP-3 (1-2)	SW-846 3050B	DGMj/2562	SW-846 6010	ICPj/1793
J1701621009	SJ-GP-4 (0-1)	SW-846 3050B	DGMj/2562	SW-846 6010	ICPj/1793
J1701621010	SJ-GP-5 (3-4)	SW-846 3050B	DGMj/2562	SW-846 6010	ICPj/1793
J1701621011	SJ-GP-6 (2-3)	SW-846 3050B	DGMj/2562	SW-846 6010	ICPj/1793
J1701621001	SJ-MW-1 (0-1)	SW-846 3550B	EXTj/3174	SW-846 8270D (SIM)	MSSj/1900
J1701621002	SJ-MW-2 (1-2)	SW-846 3550B	EXTj/3174	SW-846 8270D (SIM)	MSSj/1900
J1701621003	SJ-MW-2 (1-2)D	SW-846 3550B	EXTj/3174	SW-846 8270D (SIM)	MSSj/1900
J1701621004	SJ-MW-3 (3-4)	SW-846 3550B	EXTj/3174	SW-846 8270D (SIM)	MSSj/1900
J1701621005	SJ-MW-4 (1-2)	SW-846 3550B	EXTj/3174	SW-846 8270D (SIM)	MSSj/1900
J1701621006	SJ-GP-1 (1-2)	SW-846 3550B	EXTj/3174	SW-846 8270D (SIM)	MSSj/1900
J1701621007	SJ-GP-2 (2-3)	SW-846 3550B	EXTj/3174	SW-846 8270D (SIM)	MSSj/1900
J1701621008	SJ-GP-3 (1-2)	SW-846 3550B	EXTj/3174	SW-846 8270D (SIM)	MSSj/1900
J1701621009	SJ-GP-4 (0-1)	SW-846 3550B	EXTj/3174	SW-846 8270D (SIM)	MSSj/1900
J1701621010	SJ-GP-5 (3-4)	SW-846 3550B	EXTj/3174	SW-846 8270D (SIM)	MSSj/1900
J1701621011	SJ-GP-6 (2-3)	SW-846 3550B	EXTj/3174	SW-846 8270D (SIM)	MSSj/1900

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: J1701621 1101 St. Johns Ave

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J1701621001	SJ-MW-1 (0-1)	SW-846 5035	MSVj/3319	SW-846 8260C	MSVj/3320
J1701621002	SJ-MW-2 (1-2)	SW-846 5035	MSVj/3319	SW-846 8260C	MSVj/3320
J1701621004	SJ-MW-3 (3-4)	SW-846 5035	MSVj/3319	SW-846 8260C	MSVj/3320
J1701621005	SJ-MW-4 (1-2)	SW-846 5035	MSVj/3319	SW-846 8260C	MSVj/3320
J1701621006	SJ-GP-1 (1-2)	SW-846 5035	MSVj/3319	SW-846 8260C	MSVj/3320
J1701621007	SJ-GP-2 (2-3)	SW-846 5035	MSVj/3319	SW-846 8260C	MSVj/3320
J1701621008	SJ-GP-3 (1-2)	SW-846 5035	MSVj/3319	SW-846 8260C	MSVj/3320
J1701621009	SJ-GP-4 (0-1)	SW-846 5035	MSVj/3319	SW-846 8260C	MSVj/3320
J1701621010	SJ-GP-5 (3-4)	SW-846 5035	MSVj/3319	SW-846 8260C	MSVj/3320
J1701621011	SJ-GP-6 (2-3)	SW-846 5035	MSVj/3319	SW-846 8260C	MSVj/3320
J1701621001	SJ-MW-1 (0-1)			SM 2540G	WCAj/3554
J1701621002	SJ-MW-2 (1-2)			SM 2540G	WCAj/3554
J1701621003	SJ-MW-2 (1-2)D			SM 2540G	WCAj/3554
J1701621004	SJ-MW-3 (3-4)			SM 2540G	WCAj/3554
J1701621005	SJ-MW-4 (1-2)			SM 2540G	WCAj/3554
J1701621006	SJ-GP-1 (1-2)			SM 2540G	WCAj/3554
J1701621007	SJ-GP-2 (2-3)			SM 2540G	WCAj/3554
J1701621008	SJ-GP-3 (1-2)			SM 2540G	WCAj/3554
J1701621009	SJ-GP-4 (0-1)			SM 2540G	WCAj/3554
J1701621010	SJ-GP-5 (3-4)			SM 2540G	WCAj/3554
J1701621011	SJ-GP-6 (2-3)			SM 2540G	WCAj/3554

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J1701621

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33619 • 813.630.9616 • Fax 813.630.4327

Client Name: Ayres Associates		Project Name: 1101 St. Johns Ave		BOTTLE SIZE & TYPE	40 mL vial (green) VOC PAH HRCPA metals										LABORATORY I.D. NUMBER
Address: 5201 East Terrace Drive, #200 Madison, WI 53718		Project Number: 19-0668.26													
Phone: 608 443 1200		PO Number:													
FAX:		FDEP Facility No:													
Contact: Ben Peotter		FDEP Facility Address:													
Sampled By: EG: JS		Special Instructions: prof # 31642													
Turn Around Time: ☒ STANDARD ☐ RUSH		AEL Profile #:		☐ ADaPT ☐ EQUIS ☐ Other											

SAMPLE ID	SAMPLE DESCRIPTION	Grab Comp	SAMPLING		MATRIX	NO. COUNT	Preservation	Field-Filtered?											
			DATE	TIME															
SJ-MW-1 0-1'			2/13/17	12:05pm	SD	5		no	X	X	X							001	
SJ-MW-2 1-2'			2/13/17	12:15pm	S	5		no	X	X	X							002	
SJ-MW-2 1-2' D			2/13/17	12:20pm	S	1		no		X								003	
SJ-MW-3 3-4'			2/13/17	12:35pm	S	5		no	X	X	X							004	
SJ-MW-4 1-2'			2/13/17	12:45	S	5		no	X	X	X							005	
SJ-GP-1 1-2'			2/13/17	12:50	S	5		no	X	X	X							006	
SJ-GP-2 2-3'			2/13/17	12:55pm	S	5		no	X	X	X							007	
SJ-GP-3 1-2'			2/13/17	1:05pm	S	5		no	X	X	X							008	
SJ-GP-4 0-1'			2/13/17	1:10pm	S	5		no	X	X	X							009	
SJ-GP-5 3-4'			2/13/17	1:20pm	S	5		no	X	X	X							010	

Matrix Code: WW = wastewater SW = surface water GW = ground water DW = drinking water O = oil A = air SO = soil SL = sludge Preservation Code: I = ice H=(HCl) S = (H2SO4) N = (HNO3) T = (Sodium Thiosulfate)

Received on Ice ☐ Yes ☐ No ☐ Temp taken from sample ☐ Temp from blank ☐ Where required, pH checked Temp. when received (observed) 9 °C Temp. when received (corrected) 9 °C

DCN: AD-051 Form last revised 11/17/16

Device used for measuring Temp by unique identifier (circle IR temp gun used) J: 9A G: LT-1 LT-2 T: 10A A: 3A M: 3A S: 1V

Relinquished by:		Date	Time	Received by:		Date	Time
1	<i>Erwin Blum</i>	2/13/17	4:15pm	<i>Erwin Blum</i>	2/14/17	11:25	
2	<i>Erwin Blum</i>	2/13/17	12:50	<i>Erwin Blum</i>	2/14/17	12:50	
3							
4							

FOR DRINKING WATER USE:

(When PWS Information not otherwise supplied) PWS ID: _____

Contact Person: _____ Phone: _____

Supplier of Water: _____

Site-Address: _____



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[illegible]

Received on Ice	☒ Yes	☐ No	☒ Temp taken from sample	☐ Temp from blank	☐ Where required, pH checked	Temp. when received (observed)	°C	Temp. when received (corrected)	°C
-----------------	---	-----------------------------	--	--	---	--------------------------------	----	---------------------------------	----

DCN: AD-051 Form last revised 11/17/16

Device used for measuring Temp by unique identifier (circle IR temp gun used) J: 9A G: LT-1 LT-2 T: 10A A: 3A M: 3A S: 1V

Relinquished by:		Date	Time	Received by:		Date	Time
1	Don Hahn	2/13/17	4:15pm	Don Hahn	2/14/17	1/25	
2	Don Hahn	2/14/17	12:50	Byate	2-14-17	12:50	
3							
4							

FOR DRINKING WATER USE:

(When PWS Information not otherwise supplied) PWS ID: _____

Contact Person: _____ Phone : _____

Supplier of Water:

Site-Address:

Client: Ayres Assoc.Project name: 1101 St. John St.Date/Time Rcvd: 2-4-17 12:50Log-In request number: J1701621Received by: DBCompleted by: By**Cooler/Shipping Information:**Courier: ☒ AEL ☐ Client ☐ UPS ☐ Blue Streak ☐ FedEx ☐ AES ☐ ASAP ☐ Other (describe): _____Type: ☒ Cooler ☐ Box ☐ Other (describe): _____

Cooler temperature: Identify the cooler and document the temperature blank or ice water measurement

Cooler ID	<u>4</u>				
Temp (°C)	<u>4</u>				
Temp taken from	☐ Sample Bottle ☒ Cooler	☐ Sample Bottle ☐ Cooler	☐ Sample Bottle ☐ Cooler	☐ Sample Bottle ☐ Cooler	☐ Sample Bottle ☐ Cooler
Temp measured with	☒ IR gun S/N 9333779 ☐ Thermometer (enter ID):	☐ IR gun S/N 9333779 ☐ Thermometer (enter ID):	☐ IR gun S/N 9333779 ☐ Thermometer (enter ID):	☐ IR gun S/N 9333779 ☐ Thermometer (enter ID):	☐ IR gun S/N 9333779 ☐ Thermometer (enter ID):

Other Information:

Any discrepancies should be explained in the "Comments" section below.

CHECKLIST	YES	NO	NA
1. Were custody seals on shipping container(s) intact?			☒
2. Were custody papers properly included with samples?		☒	
3. Were custody papers properly filled out (ink, signed, match labels)?		☒	
4. Did all bottles arrive in good condition (unbroken)?		☒	
5. Were all bottle labels complete (sample #, date, signed, analysis, preservatives)?		☒	
6. Did the sample labels agree with the chain of custody?		☒	
7. Were correct bottles used for the tests indicated?		☒	
8. Were proper sample preservation techniques indicated on the label?		☒	
9. Were samples received within holding times?		☒	
10. Were all VOA vials free of the presence of air bubbles?			☒
11. Have all Soil VOA Vials and Encores been placed in a freezer within 48 hours of collection?		☒	
12. Were samples in direct contact with wet ice? If "No," check one: ☐ NO ICE ☐ BLUE ICE		☒	
13. Was the cooler temperature less than 6°C?		☒	
14. Where pH preservation is required, are sample pHs checked and any anomalies recorded by Sample control? Are all <2 or >10? Note: VOA samples are checked by laboratory analysts.			☒
15. Was sufficient sample volume provided to perform all tests?		☒	
16. If for Bacteriological testing, were containers supplied by AEL? (See QA officer if answer is no)			☒
17. Were all sample containers provided by AEL? (Other than Bacteriological)		☒	
18. Were samples accepted into the laboratory?		☒	
19. When necessary to split samples into other bottles, is it noted in the comments?		☒	

Comments: (Note all sample(s) and container (s)" with a "No" checklist response in this comment section)



Project No.: J1701621
Client Name: Ayres Associates
ProjectID: 1101 St. Johns Ave

I. Receipt

No Exceptions were encountered.

II. Holding Times

Preparation: All holding times were met.

Analysis: All holding times were met.

III. Method

Analysis: SW-846 8260B

Preparation: SW-846 5035

IV. Preparation

Sample preparation proceeded normally.

V. Analysis

A. Calibration: All acceptance criteria were met.

B. Blanks: All acceptance criteria were met.

C. Surrogates: All acceptance criteria were met.

D. Spikes: The matrix spike (MS) recoveries of several analytes for J1701621001 were outside control criteria. Recoveries in the Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCS-D) were acceptable, which indicates the analytical batch was in control. The matrix spike outlier suggests a potential low bias in this matrix. The affected sample is qualified to indicate matrix interference.

E. Internal Standard: All acceptance criteria were met.

F. Samples: Sample analyses proceeded normally.

G. Other:

I certify that this data package is in compliance with the terms and conditions agreed to by Advanced Environmental Laboratories, Inc. and by the client, both technically and for completeness, except for the conditions detailed above. The Quality Assurance Officer, or designee, as verified by the following signature, has authorized release of the data contained in this data package:

Jason Gebhardt, Lab Manager

Appendix D

Low-Flow Groundwater Sampling Stabilization Logs

**Troll 9000**

2/21/2017

Low-Flow System**ISI Low-Flow Log****Project Information:**

Operator Name
Company Name Ayres
Project Name Palatka
Site Name 1101 St Johns

Pump Information:

Pump Model/Type peristaltic
Tubing Type Idpe
Tubing Diameter 0.25 [in]
Tubing Length 29 [ft]
Pump placement from TOC 31 [ft]

Well Information:

Well ID SJ-MW-1D
Well diameter 2 [in]
Well total depth 30.2 [ft]
Depth to top of screen 25.2 [ft]
Screen length 5 [in]
Depth to Water 4.26 [ft]

Pumping information:

Final pumping rate 100 [mL/min]
Flowcell volume 879.93 [mL]
Calculated Sample Rate 528 [sec]
Sample rate 120 [sec]
Stabilized drawdown 6 [in]

Low-Flow Sampling Stabilization Summary

	Time	Temp [F]	pH [pH]	Cond [μ S/cm]	Turb [NTU]	RDO [mg/L]	ORP [mV]
Stabilization Settings			+/-0.2	+/-30 +/-5 %	+/-20	+/-0.2 +/-10 %	+/-20
Last 5 Readings	11:32:52	77.80	5.19	219.95	48.51	0.11	51.50
	11:34:53	77.95	5.18	220.69	46.73	0.09	52.74
	11:36:53	78.08	5.17	221.63	44.38	0.08	55.31
	11:39:05	78.07	5.16	221.89	45.06	0.07	54.58
	11:41:05	78.04	5.15	222.74	46.63	0.07	54.58
Variance in last 3 readings	11:36:53	0.12	-0.01	0.94	-2.36	-0.01	2.57
	11:39:05	-0.01	-0.01	0.26	0.68	0.00	-0.73
	11:41:05	-0.03	-0.01	0.86	1.57	0.00	0.00

Notes:

**Troll 9000**

2/21/2017

Low-Flow System**ISI Low-Flow Log****Project Information:**

Operator Name
Company Name Ayres
Project Name Palatka
Site Name 1101 St Johns

Pump Information:

Pump Model/Type peristaltic
Tubing Type Idpe
Tubing Diameter 0.25 [in]
Tubing Length 10.9 [ft]
Pump placement from TOC 2 [ft]

Well Information:

Well ID SJ-MW-1
Well diameter 2 [in]
Well total depth 11.9 [ft]
Depth to top of screen 1.9 [ft]
Screen length 10 [in]
Depth to Water 4.26 [ft]

Pumping information:

Final pumping rate 100 [mL/min]
Flowcell volume 705.22 [mL]
Calculated Sample Rate 424 [sec]
Sample rate 120 [sec]
Stabilized drawdown 6 [in]

Low-Flow Sampling Stabilization Summary

	Time	Temp [F]	pH [pH]	Cond [μ S/cm]	Turb [NTU]	RDO [mg/L]	ORP [mV]
Stabilization Settings			+/-0.2	+/-30 +/-5 %	+/-20	+/-0.2 +/-10 %	+/-20
Last 5 Readings	10:51:37	74.67	5.36	163.73	0.86	4.57	113.14
	10:57:51	74.35	5.37	166.40	0.63	4.70	117.25
	10:59:52	74.40	5.38	167.43	0.41	4.73	119.77
	11:01:53	74.54	5.39	168.74	0.18	4.74	121.69
	11:03:54	74.54	5.39	170.11	0.59	4.80	123.06
Variance in last 3 readings	10:59:52	0.05	0.01	1.03	-0.23	0.03	2.52
	11:01:53	0.14	0.01	1.31	-0.23	0.01	1.92
	11:03:54	0.00	0.01	1.38	0.41	0.06	1.37

Notes:

**Troll 9000**

2/21/2017

Low-Flow System**ISI Low-Flow Log****Project Information:**

Operator Name EG
Company Name Ayres
Project Name Palatka
Site Name 1101 St Johns

Pump Information:

Pump Model/Type peristaltic
Tubing Type Idpe
Tubing Diameter 0.25 [in]
Tubing Length 17 [ft]
Pump placement from TOC 19 [ft]

Well Information:

Well ID SJ-MW-2
Well diameter 2 [in]
Well total depth 17 [ft]
Depth to top of screen 7 [ft]
Screen length 10 [in]
Depth to Water 5.28 [ft]

Pumping information:

Final pumping rate 100 [mL/min]
Flowcell volume 764.1 [mL]
Calculated Sample Rate 459 [sec]
Sample rate 120 [sec]
Stabilized drawdown 6 [in]

Low-Flow Sampling Stabilization Summary

	Time	Temp [F]	pH [pH]	Cond [μ S/cm]	Turb [NTU]	RDO [mg/L]	ORP [mV]
Stabilization Settings			+/-0.2	+/-30 +/-5 %	+/-20	+/-0.2 +/-10 %	+/-20
Last 5 Readings	12:04:44	71.93	5.46	75.61	48.36	1.06	175.20
	12:06:46	71.86	5.46	76.37	48.16	1.26	178.46
	12:08:46	71.85	5.47	77.06	49.43	1.43	181.19
	12:10:47	71.84	5.47	77.95	47.69	1.61	181.49
	12:12:48	71.77	5.48	78.71	47.15	1.72	181.92
Variance in last 3 readings	12:08:46	0.00	0.01	0.69	1.27	0.17	2.74
	12:10:47	-0.02	0.01	0.89	-1.74	0.19	0.30
	12:12:48	-0.07	0.00	0.75	-0.55	0.11	0.43

Notes:

**Troll 9000**

2/21/2017

Low-Flow System**ISI Low-Flow Log****Project Information:**

Operator Name EG
Company Name Ayres
Project Name Palatka
Site Name 1101 St Johns

Pump Information:

Pump Model/Type peristaltic
Tubing Type Idpe
Tubing Diameter 0.25 [in]
Tubing Length 12 [ft]
Pump placement from TOC 14 [ft]

Well Information:

Well ID SJ-MW-3
Well diameter 2 [in]
Well total depth 12 [ft]
Depth to top of screen 2 [ft]
Screen length 10 [in]
Depth to Water 3.87 [ft]

Pumping information:

Final pumping rate 100 [mL/min]
Flowcell volume 715.83 [mL]
Calculated Sample Rate 430 [sec]
Sample rate 120 [sec]
Stabilized drawdown 6 [in]

Low-Flow Sampling Stabilization Summary

	Time	Temp [F]	pH [pH]	Cond [μ S/cm]	Turb [NTU]	RDO [mg/L]	ORP [mV]
Stabilization Settings			+/-0.2	+/-30 +/-5 %	+/-20	+/-0.2 +/-10 %	+/-20
Last 5 Readings	12:37:56	71.96	4.80	86.48	6.09	0.07	33.75
	12:39:56	71.99	4.81	86.53	5.86	0.06	32.63
	12:41:56	72.07	4.80	86.67	4.96	0.06	32.08
	12:43:58	72.01	4.80	86.54	6.36	0.05	30.62
	12:45:59	72.03	4.79	86.53	6.24	0.05	29.73
Variance in last 3 readings	12:41:56	0.08	0.00	0.14	-0.90	0.00	-0.56
	12:43:58	-0.06	-0.01	-0.14	1.40	0.00	-1.45
	12:45:59	0.02	0.00	-0.01	-0.12	0.00	-0.90

Notes:

**Troll 9000**

2/21/2017

Low-Flow System**ISI Low-Flow Log****Project Information:**

Operator Name EG
Company Name Ayres
Project Name Palatka
Site Name 1101 St Johns

Pump Information:

Pump Model/Type peristaltic
Tubing Type Idpe
Tubing Diameter 0.25 [in]
Tubing Length 11.9 [ft]
Pump placement from TOC 13.9 [ft]

Well Information:

Well ID SJ-MW-4
Well diameter 2 [in]
Well total depth 11.9 [ft]
Depth to top of screen 1.9 [ft]
Screen length 10 [in]
Depth to Water 3.74 [ft]

Pumping information:

Final pumping rate 100 [mL/min]
Flowcell volume 714.87 [mL]
Calculated Sample Rate 429 [sec]
Sample rate 120 [sec]
Stabilized drawdown 6 [in]

Low-Flow Sampling Stabilization Summary

	Time	Temp [F]	pH [pH]	Cond [μ S/cm]	Turb [NTU]	RDO [mg/L]	ORP [mV]
Stabilization Settings			+/-0.2	+/-30 +/-5 %	+/-20	+/-0.2 +/-10 %	+/-20
Last 5 Readings	13:08:06	73.74	4.96	74.00	42.06	0.09	2.86
	13:10:07	73.64	4.96	73.95	42.08	0.07	1.62
	13:12:08	73.58	4.96	73.88	42.50	0.06	0.56
	13:14:08	73.68	4.96	73.86	40.51	0.06	-0.17
	13:16:09	73.68	4.95	73.75	40.68	0.06	-0.77
Variance in last 3 readings	13:12:08	-0.06	0.00	-0.07	0.42	-0.01	-1.07
	13:14:08	0.10	0.00	-0.03	-1.99	0.00	-0.73
	13:16:09	0.00	0.00	-0.11	0.17	0.00	-0.60

Notes:

Appendix E
Laboratory Analytical Reports for Groundwater Samples



Advanced Environmental Laboratories, Inc
6681 Southpoint Pkwy Jacksonville, FL 32216
Payments: P.O. Box 551580 Jacksonville, FL 32255-1580
Phone: (904)363-9350
Fax: (904)363-9354

March 6, 2017

Ben Peotter
Ayres Associates
5201 E. Terrace Dr, Suite 200
Madison, WI 53718

RE: Workorder: J1701930 1101 St. Johns Ave

Dear Ben Peotter:

Enclosed are the analytical results for sample(s) received by the laboratory on Wednesday, February 22, 2017. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. The analytical results for the samples contained in this report were submitted for analysis as outlined by the Chain of Custody and results pertain only to these samples.

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

Sincerely,

A handwritten signature in black ink that reads 'Jason Gebhardt'.

Jason Gebhardt - Lab Manager
JGebhardt@AELLab.com

Enclosures

Report ID: 472819 - 243053

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SAMPLE SUMMARY

Workorder: J1701930 1101 St. Johns Ave

Lab ID	Sample ID	Matrix	Date Collected	Date Received
J1701930001	SJ-MW-1	Water	2/21/2017 13:05	2/22/2017 12:20
J1701930002	SJ-MW-1D	Water	2/21/2017 13:05	2/22/2017 12:20
J1701930003	SJ-MW-1D	Water	2/21/2017 13:45	2/22/2017 12:20
J1701930004	SJ-MW-2	Water	2/21/2017 14:10	2/22/2017 12:20
J1701930005	SJ-MW-2D	Water	2/21/2017 14:10	2/22/2017 12:20
J1701930006	SJ-MW-3	Water	2/21/2017 14:45	2/22/2017 12:20
J1701930007	SJ-MW-4	Water	2/21/2017 15:20	2/22/2017 12:20
J1701930008	Trip Blank	Water	2/21/2017 15:45	2/22/2017 12:20

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ANALYTICAL RESULTS

Workorder: J1701930 1101 St. Johns Ave

Lab ID: **J1701930001**

Date Received: 02/22/17 12:20 Matrix: Water

Sample ID: **SJ-MW-1**

Date Collected: 02/21/17 13:05

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B			Preparation Method: SW-846 3010A					
Analysis, Water			Analytical Method: SW-846 6010					
Arsenic	0.0085	U	mg/L	1	0.010	0.0085	3/1/2017 17:09	J
Barium	0.040		mg/L	1	0.0020	0.00028	3/1/2017 17:09	J
Cadmium	0.00032	U	mg/L	1	0.00060	0.00032	3/1/2017 17:09	J
Chromium	0.0026		mg/L	1	0.0010	0.00050	3/1/2017 17:09	J
Lead	0.0013	U	mg/L	1	0.0070	0.0013	3/1/2017 17:09	J
Selenium	0.0068	U	mg/L	1	0.020	0.0068	3/1/2017 17:09	J
Silver	0.00044	U	mg/L	1	0.0040	0.00044	3/1/2017 17:09	J
Analysis Desc: SW846 7470A			Preparation Method: SW-846 7470A					
Analysis, Water			Analytical Method: SW-846 7470A					
Mercury	0.000011	U	mg/L	1	0.00010	0.000011	2/27/2017 14:06	J
SEMIVOLATILES								
Analysis Desc: 8270D-SIM Analysis, Water			Preparation Method: SW-846 3510C					
			Analytical Method: SW-846 8270D (SIM)					
1-Methylnaphthalene	0.20	U	ug/L	1	0.20	0.20	2/24/2017 17:55	J
2-Methylnaphthalene	0.20	U	ug/L	1	0.20	0.20	2/24/2017 17:55	J
Acenaphthene	0.16	U	ug/L	1	0.20	0.16	2/24/2017 17:55	J
Acenaphthylene	0.17	U	ug/L	1	0.20	0.17	2/24/2017 17:55	J
Anthracene	0.14	U	ug/L	1	0.20	0.14	2/24/2017 17:55	J
Benzo[a]anthracene	0.049	U	ug/L	1	0.20	0.049	2/24/2017 17:55	J
Benzo[a]pyrene	0.15	U	ug/L	1	0.20	0.15	2/24/2017 17:55	J
Benzo[b]fluoranthene	0.050	U	ug/L	1	0.10	0.050	2/24/2017 17:55	J
Benzo[g,h,i]perylene	0.19	U	ug/L	1	0.20	0.19	2/24/2017 17:55	J
Benzo[k]fluoranthene	0.19	U	ug/L	1	0.20	0.19	2/24/2017 17:55	J
Chrysene	0.13	U	ug/L	1	0.20	0.13	2/24/2017 17:55	J
Dibenzo[a,h]anthracene	0.095	U	ug/L	1	0.20	0.095	2/24/2017 17:55	J
Fluoranthene	0.15	U	ug/L	1	0.20	0.15	2/24/2017 17:55	J
Fluorene	0.15	U	ug/L	1	0.20	0.15	2/24/2017 17:55	J
Indeno(1,2,3-cd)pyrene	0.045	U	ug/L	1	0.20	0.045	2/24/2017 17:55	J
Naphthalene	0.19	U	ug/L	1	0.20	0.19	2/24/2017 17:55	J
Phenanthrene	0.16	U	ug/L	1	0.20	0.16	2/24/2017 17:55	J
Pyrene	0.14	U	ug/L	1	0.20	0.14	2/24/2017 17:55	J
Nitrobenzene-d5 (S)	82		%	1	34-139		2/24/2017 17:55	
2-Fluorobiphenyl (S)	80		%	1	36-125		2/24/2017 17:55	

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ANALYTICAL RESULTS

Workorder: J1701930 1101 St. Johns Ave

Lab ID: **J1701930001**

Date Received: 02/22/17 12:20 Matrix: Water

Sample ID: **SJ-MW-1**

Date Collected: 02/21/17 13:05

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
p-Terphenyl-d14 (S)	116		%	1	41-138		2/24/2017 17:55	

VOLATILES

Analysis Desc: 8260C Analysis, Water

Preparation Method: SW-846 5030B

Analytical Method: SW-846 8260C

1,1,1,2-Tetrachloroethane	0.26	U	ug/L	1	1.0	0.26	2/27/2017 14:33	J
1,1,1-Trichloroethane	0.22	U	ug/L	1	1.0	0.22	2/27/2017 14:33	J
1,1,2,2-Tetrachloroethane	0.20	U	ug/L	1	1.0	0.20	2/27/2017 14:33	J
1,1,2-Trichloroethane	0.30	U	ug/L	1	1.0	0.30	2/27/2017 14:33	J
1,1-Dichloroethane	0.14	U	ug/L	1	1.0	0.14	2/27/2017 14:33	J
1,1-Dichloroethylene	0.18	U	ug/L	1	1.0	0.18	2/27/2017 14:33	J
1,1-Dichloropropene	0.22	U	ug/L	1	1.0	0.22	2/27/2017 14:33	J
1,2,3-Trichlorobenzene	0.54	U	ug/L	1	5.0	0.54	2/27/2017 14:33	J
1,2,3-Trichloropropane	0.30	U	ug/L	1	1.0	0.30	2/27/2017 14:33	J
1,2,4-Trichlorobenzene	0.35	U	ug/L	1	1.0	0.35	2/27/2017 14:33	J
1,2,4-Trimethylbenzene	0.18	U	ug/L	1	1.0	0.18	2/27/2017 14:33	J
1,2-Dibromo-3-Chloropropane	0.11	U	ug/L	1	5.0	0.11	2/27/2017 14:33	J
1,2-Dichlorobenzene	0.18	U	ug/L	1	1.0	0.18	2/27/2017 14:33	J
1,2-Dichloroethane	0.23	U	ug/L	1	1.0	0.23	2/27/2017 14:33	J
1,2-Dichloropropane	0.20	U	ug/L	1	1.0	0.20	2/27/2017 14:33	J
1,3,5-Trimethylbenzene	0.15	U	ug/L	1	1.0	0.15	2/27/2017 14:33	J
1,3-Dichlorobenzene	0.19	U	ug/L	1	1.0	0.19	2/27/2017 14:33	J
1,3-Dichloropropane	0.24	U	ug/L	1	1.0	0.24	2/27/2017 14:33	J
1,4-Dichlorobenzene	0.22	U	ug/L	1	1.0	0.22	2/27/2017 14:33	J
2,2-Dichloropropane	0.22	U	ug/L	1	5.0	0.22	2/27/2017 14:33	J
2-Butanone (MEK)	0.43	U	ug/L	1	5.0	0.43	2/27/2017 14:33	J
2-Chlorotoluene	0.15	U	ug/L	1	1.0	0.15	2/27/2017 14:33	J
2-Hexanone	0.44	U	ug/L	1	5.0	0.44	2/27/2017 14:33	J
4-Chlorotoluene	0.17	U	ug/L	1	1.0	0.17	2/27/2017 14:33	J
4-Methyl-2-pentanone (MIBK)	0.47	U	ug/L	1	5.0	0.47	2/27/2017 14:33	J
Acetone	3.4	I	ug/L	1	5.0	2.1	2/27/2017 14:33	J
Benzene	0.16	U	ug/L	1	1.0	0.16	2/27/2017 14:33	J
Bromobenzene	0.24	U	ug/L	1	1.0	0.24	2/27/2017 14:33	J
Bromodichloromethane	0.25	U	ug/L	1	1.0	0.25	2/27/2017 14:33	J
Bromoform	0.43	U	ug/L	1	5.0	0.43	2/27/2017 14:33	J
Bromomethane	0.24	U	ug/L	1	1.0	0.24	2/27/2017 14:33	J
Carbon Disulfide	0.21	U	ug/L	1	1.0	0.21	2/27/2017 14:33	J
Carbon Tetrachloride	0.36	U	ug/L	1	1.0	0.36	2/27/2017 14:33	J
Chlorobenzene	0.21	U	ug/L	1	1.0	0.21	2/27/2017 14:33	J

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ANALYTICAL RESULTS

Workorder: J1701930 1101 St. Johns Ave

Lab ID: **J1701930001**

Date Received: 02/22/17 12:20 Matrix: Water

Sample ID: **SJ-MW-1**

Date Collected: 02/21/17 13:05

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Chloroethane	0.33	U	ug/L	1	1.0	0.33	2/27/2017 14:33	J
Chloroform	0.18	U	ug/L	1	1.0	0.18	2/27/2017 14:33	J
Chloromethane	0.21	U	ug/L	1	1.0	0.21	2/27/2017 14:33	J
Dibromochloromethane	0.33	U	ug/L	1	1.0	0.33	2/27/2017 14:33	J
Dichlorodifluoromethane	0.15	U	ug/L	1	1.0	0.15	2/27/2017 14:33	J
Ethylbenzene	0.24	U	ug/L	1	1.0	0.24	2/27/2017 14:33	J
Ethylene Dibromide (EDB)	0.020	U	ug/L	1	1.0	0.020	2/27/2017 14:33	J
Hexachlorobutadiene	0.63	U	ug/L	1	5.0	0.63	2/27/2017 14:33	J
Isopropylbenzene	0.14	U	ug/L	1	1.0	0.14	2/27/2017 14:33	J
Methyl tert-butyl Ether (MTBE)	0.17	U	ug/L	1	1.0	0.17	2/27/2017 14:33	J
Methylene Chloride	2.5	U	ug/L	1	5.0	2.5	2/27/2017 14:33	J
Naphthalene	0.27	U	ug/L	1	5.0	0.27	2/27/2017 14:33	J
Styrene	0.23	U	ug/L	1	1.0	0.23	2/27/2017 14:33	J
Tetrachloroethylene (PCE)	0.36	U	ug/L	1	1.0	0.36	2/27/2017 14:33	J
Toluene	0.23	U	ug/L	1	1.0	0.23	2/27/2017 14:33	J
Trichloroethene	0.29	U	ug/L	1	1.0	0.29	2/27/2017 14:33	J
Trichlorofluoromethane	0.32	U	ug/L	1	1.0	0.32	2/27/2017 14:33	J
Vinyl Chloride	0.20	U	ug/L	1	1.0	0.20	2/27/2017 14:33	J
Xylene (Total)	0.53	U	ug/L	1	3.0	0.53	2/27/2017 14:33	J
cis-1,2-Dichloroethylene	0.24	U	ug/L	1	1.0	0.24	2/27/2017 14:33	J
cis-1,3-Dichloropropene	0.16	U	ug/L	1	1.0	0.16	2/27/2017 14:33	J
n-Butylbenzene	0.17	U	ug/L	1	1.0	0.17	2/27/2017 14:33	J
n-propylbenzene	0.63	U	ug/L	1	1.0	0.63	2/27/2017 14:33	J
p-Isopropyltoluene	0.15	U	ug/L	1	1.0	0.15	2/27/2017 14:33	J
sec-butylbenzene	0.15	U	ug/L	1	1.0	0.15	2/27/2017 14:33	J
tert-butylbenzene	0.19	U	ug/L	1	1.0	0.19	2/27/2017 14:33	J
trans-1,2-Dichloroethylene	0.20	U	ug/L	1	1.0	0.20	2/27/2017 14:33	J
trans-1,3-Dichloropropylene	0.18	U	ug/L	1	5.0	0.18	2/27/2017 14:33	J
1,2-Dichloroethane-d4 (S)	100		%	1	70-128		2/27/2017 14:33	
Toluene-d8 (S)	97		%	1	77-119		2/27/2017 14:33	
Bromofluorobenzene (S)	96		%	1	86-123		2/27/2017 14:33	

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ANALYTICAL RESULTS

Workorder: J1701930 1101 St. Johns Ave

Lab ID: **J1701930002**

Date Received: 02/22/17 12:20 Matrix: Water

Sample ID: **SJ-MW-1D**

Date Collected: 02/21/17 13:05

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
VOLATILES								
Analysis Desc: 8260C Analysis, Water		Preparation Method: SW-846 5030B						
Analytical Method: SW-846 8260C								
1,1,1,2-Tetrachloroethane	0.26	U	ug/L	1	1.0	0.26	2/27/2017 14:59	J
1,1,1-Trichloroethane	0.22	U	ug/L	1	1.0	0.22	2/27/2017 14:59	J
1,1,2,2-Tetrachloroethane	0.20	U	ug/L	1	1.0	0.20	2/27/2017 14:59	J
1,1,2-Trichloroethane	0.30	U	ug/L	1	1.0	0.30	2/27/2017 14:59	J
1,1-Dichloroethane	0.14	U	ug/L	1	1.0	0.14	2/27/2017 14:59	J
1,1-Dichloroethylene	0.18	U	ug/L	1	1.0	0.18	2/27/2017 14:59	J
1,1-Dichloropropene	0.22	U	ug/L	1	1.0	0.22	2/27/2017 14:59	J
1,2,3-Trichlorobenzene	0.54	U	ug/L	1	5.0	0.54	2/27/2017 14:59	J
1,2,3-Trichloropropane	0.30	U	ug/L	1	1.0	0.30	2/27/2017 14:59	J
1,2,4-Trichlorobenzene	0.35	U	ug/L	1	1.0	0.35	2/27/2017 14:59	J
1,2,4-Trimethylbenzene	0.18	U	ug/L	1	1.0	0.18	2/27/2017 14:59	J
1,2-Dibromo-3-Chloropropane	0.11	U	ug/L	1	5.0	0.11	2/27/2017 14:59	J
1,2-Dichlorobenzene	0.18	U	ug/L	1	1.0	0.18	2/27/2017 14:59	J
1,2-Dichloroethane	0.23	U	ug/L	1	1.0	0.23	2/27/2017 14:59	J
1,2-Dichloropropane	0.20	U	ug/L	1	1.0	0.20	2/27/2017 14:59	J
1,3,5-Trimethylbenzene	0.15	U	ug/L	1	1.0	0.15	2/27/2017 14:59	J
1,3-Dichlorobenzene	0.19	U	ug/L	1	1.0	0.19	2/27/2017 14:59	J
1,3-Dichloropropane	0.24	U	ug/L	1	1.0	0.24	2/27/2017 14:59	J
1,4-Dichlorobenzene	0.22	U	ug/L	1	1.0	0.22	2/27/2017 14:59	J
2,2-Dichloropropane	0.22	U	ug/L	1	5.0	0.22	2/27/2017 14:59	J
2-Butanone (MEK)	0.43	U	ug/L	1	5.0	0.43	2/27/2017 14:59	J
2-Chlorotoluene	0.15	U	ug/L	1	1.0	0.15	2/27/2017 14:59	J
2-Hexanone	0.44	U	ug/L	1	5.0	0.44	2/27/2017 14:59	J
4-Chlorotoluene	0.17	U	ug/L	1	1.0	0.17	2/27/2017 14:59	J
4-Methyl-2-pentanone (MIBK)	0.47	U	ug/L	1	5.0	0.47	2/27/2017 14:59	J
Acetone	2.6	I	ug/L	1	5.0	2.1	2/27/2017 14:59	J
Benzene	0.16	U	ug/L	1	1.0	0.16	2/27/2017 14:59	J
Bromobenzene	0.24	U	ug/L	1	1.0	0.24	2/27/2017 14:59	J
Bromodichloromethane	0.25	U	ug/L	1	1.0	0.25	2/27/2017 14:59	J
Bromoform	0.43	U	ug/L	1	5.0	0.43	2/27/2017 14:59	J
Bromomethane	0.24	U	ug/L	1	1.0	0.24	2/27/2017 14:59	J
Carbon Disulfide	0.21	U	ug/L	1	1.0	0.21	2/27/2017 14:59	J
Carbon Tetrachloride	0.36	U	ug/L	1	1.0	0.36	2/27/2017 14:59	J
Chlorobenzene	0.21	U	ug/L	1	1.0	0.21	2/27/2017 14:59	J
Chloroethane	0.33	U	ug/L	1	1.0	0.33	2/27/2017 14:59	J
Chloroform	0.18	U	ug/L	1	1.0	0.18	2/27/2017 14:59	J

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ANALYTICAL RESULTS

Workorder: J1701930 1101 St. Johns Ave

Lab ID: **J1701930002**

Date Received: 02/22/17 12:20 Matrix: Water

Sample ID: **SJ-MW-1D**

Date Collected: 02/21/17 13:05

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Chloromethane	0.21	U	ug/L	1	1.0	0.21	2/27/2017 14:59	J
Dibromochloromethane	0.33	U	ug/L	1	1.0	0.33	2/27/2017 14:59	J
Dichlorodifluoromethane	0.15	U	ug/L	1	1.0	0.15	2/27/2017 14:59	J
Ethylbenzene	0.24	U	ug/L	1	1.0	0.24	2/27/2017 14:59	J
Ethylene Dibromide (EDB)	0.020	U	ug/L	1	1.0	0.020	2/27/2017 14:59	J
Hexachlorobutadiene	0.63	U	ug/L	1	5.0	0.63	2/27/2017 14:59	J
Isopropylbenzene	0.14	U	ug/L	1	1.0	0.14	2/27/2017 14:59	J
Methyl tert-butyl Ether (MTBE)	0.17	U	ug/L	1	1.0	0.17	2/27/2017 14:59	J
Methylene Chloride	2.5	U	ug/L	1	5.0	2.5	2/27/2017 14:59	J
Naphthalene	0.27	U	ug/L	1	5.0	0.27	2/27/2017 14:59	J
Styrene	0.23	U	ug/L	1	1.0	0.23	2/27/2017 14:59	J
Tetrachloroethylene (PCE)	0.36	U	ug/L	1	1.0	0.36	2/27/2017 14:59	J
Toluene	0.23	U	ug/L	1	1.0	0.23	2/27/2017 14:59	J
Trichloroethene	0.29	U	ug/L	1	1.0	0.29	2/27/2017 14:59	J
Trichlorofluoromethane	0.32	U	ug/L	1	1.0	0.32	2/27/2017 14:59	J
Vinyl Chloride	0.20	U	ug/L	1	1.0	0.20	2/27/2017 14:59	J
Xylene (Total)	0.53	U	ug/L	1	3.0	0.53	2/27/2017 14:59	J
cis-1,2-Dichloroethylene	0.24	U	ug/L	1	1.0	0.24	2/27/2017 14:59	J
cis-1,3-Dichloropropene	0.16	U	ug/L	1	1.0	0.16	2/27/2017 14:59	J
n-Butylbenzene	0.17	U	ug/L	1	1.0	0.17	2/27/2017 14:59	J
n-propylbenzene	0.63	U	ug/L	1	1.0	0.63	2/27/2017 14:59	J
p-Isopropyltoluene	0.15	U	ug/L	1	1.0	0.15	2/27/2017 14:59	J
sec-butylbenzene	0.15	U	ug/L	1	1.0	0.15	2/27/2017 14:59	J
tert-butylbenzene	0.19	U	ug/L	1	1.0	0.19	2/27/2017 14:59	J
trans-1,2-Dichloroethylene	0.20	U	ug/L	1	1.0	0.20	2/27/2017 14:59	J
trans-1,3-Dichloropropylene	0.18	U	ug/L	1	5.0	0.18	2/27/2017 14:59	J
1,2-Dichloroethane-d4 (S)	98		%	1	70-128		2/27/2017 14:59	
Toluene-d8 (S)	97		%	1	77-119		2/27/2017 14:59	
Bromofluorobenzene (S)	97		%	1	86-123		2/27/2017 14:59	

Lab ID: **J1701930003**

Date Received: 02/22/17 12:20 Matrix: Water

Sample ID: **SJ-MW-1D**

Date Collected: 02/21/17 13:45

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
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METALS

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ANALYTICAL RESULTS

Workorder: J1701930 1101 St. Johns Ave

Lab ID: **J1701930003**

Date Received: 02/22/17 12:20 Matrix: Water

Sample ID: **SJ-MW-1D**

Date Collected: 02/21/17 13:45

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: SW846 6010B		Preparation Method: SW-846 3010A						
Analysis, Water		Analytical Method: SW-846 6010						
Arsenic	0.0085	U	mg/L	1	0.010	0.0085	3/1/2017 17:13	J
Barium	0.094		mg/L	1	0.0020	0.00028	3/1/2017 17:13	J
Cadmium	0.00032	U	mg/L	1	0.00060	0.00032	3/1/2017 17:13	J
Chromium	0.0035		mg/L	1	0.0010	0.00050	3/1/2017 17:13	J
Lead	0.0013	U	mg/L	1	0.0070	0.0013	3/1/2017 17:13	J
Selenium	0.0068	U	mg/L	1	0.020	0.0068	3/1/2017 17:13	J
Silver	0.00044	U	mg/L	1	0.0040	0.00044	3/1/2017 17:13	J

Analysis Desc: SW846 7470A
Analysis, Water

Preparation Method: SW-846 7470A

Analytical Method: SW-846 7470A

Mercury	0.000011	U	mg/L	1	0.00010	0.000011	2/27/2017 14:09	J
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SEMIVOLATILES

Analysis Desc: 8270D-SIM Analysis,
Water

Preparation Method: SW-846 3510C

Analytical Method: SW-846 8270D (SIM)

1-Methylnaphthalene	0.20	U	ug/L	1	0.20	0.20	2/24/2017 18:23	J
2-Methylnaphthalene	0.20	U	ug/L	1	0.20	0.20	2/24/2017 18:23	J
Acenaphthene	0.16	U	ug/L	1	0.20	0.16	2/24/2017 18:23	J
Acenaphthylene	0.17	U	ug/L	1	0.20	0.17	2/24/2017 18:23	J
Anthracene	0.14	U	ug/L	1	0.20	0.14	2/24/2017 18:23	J
Benzo[a]anthracene	0.049	U	ug/L	1	0.20	0.049	2/24/2017 18:23	J
Benzo[a]pyrene	0.15	U	ug/L	1	0.20	0.15	2/24/2017 18:23	J
Benzo[b]fluoranthene	0.050	U	ug/L	1	0.10	0.050	2/24/2017 18:23	J
Benzo[g,h,i]perylene	0.19	U	ug/L	1	0.20	0.19	2/24/2017 18:23	J
Benzo[k]fluoranthene	0.19	U	ug/L	1	0.20	0.19	2/24/2017 18:23	J
Chrysene	0.13	U	ug/L	1	0.20	0.13	2/24/2017 18:23	J
Dibenzo[a,h]anthracene	0.095	U	ug/L	1	0.20	0.095	2/24/2017 18:23	J
Fluoranthene	0.15	U	ug/L	1	0.20	0.15	2/24/2017 18:23	J
Fluorene	0.15	U	ug/L	1	0.20	0.15	2/24/2017 18:23	J
Indeno(1,2,3-cd)pyrene	0.045	U	ug/L	1	0.20	0.045	2/24/2017 18:23	J
Naphthalene	0.19	U	ug/L	1	0.20	0.19	2/24/2017 18:23	J
Phenanthrene	0.16	U	ug/L	1	0.20	0.16	2/24/2017 18:23	J
Pyrene	0.14	U	ug/L	1	0.20	0.14	2/24/2017 18:23	J
Nitrobenzene-d5 (S)	73		%	1	34-139		2/24/2017 18:23	
2-Fluorobiphenyl (S)	74		%	1	36-125		2/24/2017 18:23	
p-Terphenyl-d14 (S)	112		%	1	41-138		2/24/2017 18:23	

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ANALYTICAL RESULTS

Workorder: J1701930 1101 St. Johns Ave

Lab ID: **J1701930003**

Date Received: 02/22/17 12:20 Matrix: Water

Sample ID: **SJ-MW-1D**

Date Collected: 02/21/17 13:45

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
VOLATILES								
Analysis Desc: 8260C Analysis, Water			Preparation Method: SW-846 5030B					
			Analytical Method: SW-846 8260C					
1,1,1,2-Tetrachloroethane	0.26	U	ug/L	1	1.0	0.26	2/27/2017 15:26	J
1,1,1-Trichloroethane	0.22	U	ug/L	1	1.0	0.22	2/27/2017 15:26	J
1,1,2,2-Tetrachloroethane	0.20	U	ug/L	1	1.0	0.20	2/27/2017 15:26	J
1,1,2-Trichloroethane	0.30	U	ug/L	1	1.0	0.30	2/27/2017 15:26	J
1,1-Dichloroethane	0.14	U	ug/L	1	1.0	0.14	2/27/2017 15:26	J
1,1-Dichloroethylene	0.18	U	ug/L	1	1.0	0.18	2/27/2017 15:26	J
1,1-Dichloropropene	0.22	U	ug/L	1	1.0	0.22	2/27/2017 15:26	J
1,2,3-Trichlorobenzene	0.54	U	ug/L	1	5.0	0.54	2/27/2017 15:26	J
1,2,3-Trichloropropane	0.30	U	ug/L	1	1.0	0.30	2/27/2017 15:26	J
1,2,4-Trichlorobenzene	0.35	U	ug/L	1	1.0	0.35	2/27/2017 15:26	J
1,2,4-Trimethylbenzene	0.18	U	ug/L	1	1.0	0.18	2/27/2017 15:26	J
1,2-Dibromo-3-Chloropropane	0.11	U	ug/L	1	5.0	0.11	2/27/2017 15:26	J
1,2-Dichlorobenzene	0.18	U	ug/L	1	1.0	0.18	2/27/2017 15:26	J
1,2-Dichloroethane	0.23	U	ug/L	1	1.0	0.23	2/27/2017 15:26	J
1,2-Dichloropropane	0.20	U	ug/L	1	1.0	0.20	2/27/2017 15:26	J
1,3,5-Trimethylbenzene	0.15	U	ug/L	1	1.0	0.15	2/27/2017 15:26	J
1,3-Dichlorobenzene	0.19	U	ug/L	1	1.0	0.19	2/27/2017 15:26	J
1,3-Dichloropropane	0.24	U	ug/L	1	1.0	0.24	2/27/2017 15:26	J
1,4-Dichlorobenzene	0.22	U	ug/L	1	1.0	0.22	2/27/2017 15:26	J
2,2-Dichloropropane	0.22	U	ug/L	1	5.0	0.22	2/27/2017 15:26	J
2-Butanone (MEK)	0.43	U	ug/L	1	5.0	0.43	2/27/2017 15:26	J
2-Chlorotoluene	0.15	U	ug/L	1	1.0	0.15	2/27/2017 15:26	J
2-Hexanone	0.44	U	ug/L	1	5.0	0.44	2/27/2017 15:26	J
4-Chlorotoluene	0.17	U	ug/L	1	1.0	0.17	2/27/2017 15:26	J
4-Methyl-2-pentanone (MIBK)	0.47	U	ug/L	1	5.0	0.47	2/27/2017 15:26	J
Acetone	19		ug/L	1	5.0	2.1	2/27/2017 15:26	J
Benzene	0.16	U	ug/L	1	1.0	0.16	2/27/2017 15:26	J
Bromobenzene	0.24	U	ug/L	1	1.0	0.24	2/27/2017 15:26	J
Bromodichloromethane	0.25	U	ug/L	1	1.0	0.25	2/27/2017 15:26	J
Bromoform	0.43	U	ug/L	1	5.0	0.43	2/27/2017 15:26	J
Bromomethane	0.24	U	ug/L	1	1.0	0.24	2/27/2017 15:26	J
Carbon Disulfide	0.21	U	ug/L	1	1.0	0.21	2/27/2017 15:26	J
Carbon Tetrachloride	0.36	U	ug/L	1	1.0	0.36	2/27/2017 15:26	J
Chlorobenzene	0.21	U	ug/L	1	1.0	0.21	2/27/2017 15:26	J
Chloroethane	0.33	U	ug/L	1	1.0	0.33	2/27/2017 15:26	J
Chloroform	0.18	U	ug/L	1	1.0	0.18	2/27/2017 15:26	J

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ANALYTICAL RESULTS

Workorder: J1701930 1101 St. Johns Ave

Lab ID: **J1701930003**

Date Received: 02/22/17 12:20 Matrix: Water

Sample ID: **SJ-MW-1D**

Date Collected: 02/21/17 13:45

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Chloromethane	0.21	U	ug/L	1	1.0	0.21	2/27/2017 15:26	J
Dibromochloromethane	0.33	U	ug/L	1	1.0	0.33	2/27/2017 15:26	J
Dichlorodifluoromethane	0.15	U	ug/L	1	1.0	0.15	2/27/2017 15:26	J
Ethylbenzene	0.24	U	ug/L	1	1.0	0.24	2/27/2017 15:26	J
Ethylene Dibromide (EDB)	0.020	U	ug/L	1	1.0	0.020	2/27/2017 15:26	J
Hexachlorobutadiene	0.63	U	ug/L	1	5.0	0.63	2/27/2017 15:26	J
Isopropylbenzene	0.14	U	ug/L	1	1.0	0.14	2/27/2017 15:26	J
Methyl tert-butyl Ether (MTBE)	0.17	U	ug/L	1	1.0	0.17	2/27/2017 15:26	J
Methylene Chloride	2.5	U	ug/L	1	5.0	2.5	2/27/2017 15:26	J
Naphthalene	0.27	U	ug/L	1	5.0	0.27	2/27/2017 15:26	J
Styrene	0.23	U	ug/L	1	1.0	0.23	2/27/2017 15:26	J
Tetrachloroethylene (PCE)	0.36	U	ug/L	1	1.0	0.36	2/27/2017 15:26	J
Toluene	0.23	U	ug/L	1	1.0	0.23	2/27/2017 15:26	J
Trichloroethene	0.29	U	ug/L	1	1.0	0.29	2/27/2017 15:26	J
Trichlorofluoromethane	0.32	U	ug/L	1	1.0	0.32	2/27/2017 15:26	J
Vinyl Chloride	0.20	U	ug/L	1	1.0	0.20	2/27/2017 15:26	J
Xylene (Total)	0.53	U	ug/L	1	3.0	0.53	2/27/2017 15:26	J
cis-1,2-Dichloroethylene	0.24	U	ug/L	1	1.0	0.24	2/27/2017 15:26	J
cis-1,3-Dichloropropene	0.16	U	ug/L	1	1.0	0.16	2/27/2017 15:26	J
n-Butylbenzene	0.17	U	ug/L	1	1.0	0.17	2/27/2017 15:26	J
n-propylbenzene	0.63	U	ug/L	1	1.0	0.63	2/27/2017 15:26	J
p-Isopropyltoluene	0.15	U	ug/L	1	1.0	0.15	2/27/2017 15:26	J
sec-butylbenzene	0.15	U	ug/L	1	1.0	0.15	2/27/2017 15:26	J
tert-butylbenzene	0.19	U	ug/L	1	1.0	0.19	2/27/2017 15:26	J
trans-1,2-Dichloroethylene	0.20	U	ug/L	1	1.0	0.20	2/27/2017 15:26	J
trans-1,3-Dichloropropylene	0.18	U	ug/L	1	5.0	0.18	2/27/2017 15:26	J
1,2-Dichloroethane-d4 (S)	97		%	1	70-128		2/27/2017 15:26	
Toluene-d8 (S)	99		%	1	77-119		2/27/2017 15:26	
Bromofluorobenzene (S)	98		%	1	86-123		2/27/2017 15:26	

Lab ID: **J1701930004**

Date Received: 02/22/17 12:20 Matrix: Water

Sample ID: **SJ-MW-2**

Date Collected: 02/21/17 14:10

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
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ANALYTICAL RESULTS

Workorder: J1701930 1101 St. Johns Ave

Lab ID: **J1701930004**

Date Received: 02/22/17 12:20 Matrix: Water

Sample ID: **SJ-MW-2**

Date Collected: 02/21/17 14:10

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: SW846 6010B		Preparation Method: SW-846 3010A						
Analysis, Water		Analytical Method: SW-846 6010						
Arsenic	0.0085	U	mg/L	1	0.010	0.0085	3/1/2017 17:17	J
Barium	0.016		mg/L	1	0.0020	0.00028	3/1/2017 17:17	J
Cadmium	0.00032	U	mg/L	1	0.00060	0.00032	3/1/2017 17:17	J
Chromium	0.0047		mg/L	1	0.0010	0.00050	3/1/2017 17:17	J
Lead	0.0013	U	mg/L	1	0.0070	0.0013	3/1/2017 17:17	J
Selenium	0.0068	U	mg/L	1	0.020	0.0068	3/1/2017 17:17	J
Silver	0.00044	U	mg/L	1	0.0040	0.00044	3/1/2017 17:17	J

Analysis Desc: SW846 7470A
Analysis, Water

Preparation Method: SW-846 7470A

Analytical Method: SW-846 7470A

Mercury	0.000011	U	mg/L	1	0.00010	0.000011	2/27/2017 14:12	J
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SEMIVOLATILES

Analysis Desc: 8270D-SIM Analysis,
Water

Preparation Method: SW-846 3510C

Analytical Method: SW-846 8270D (SIM)

1-Methylnaphthalene	0.20	U	ug/L	1	0.20	0.20	2/24/2017 18:51	J
2-Methylnaphthalene	0.20	U	ug/L	1	0.20	0.20	2/24/2017 18:51	J
Acenaphthene	0.16	U	ug/L	1	0.20	0.16	2/24/2017 18:51	J
Acenaphthylene	0.17	U	ug/L	1	0.20	0.17	2/24/2017 18:51	J
Anthracene	0.14	U	ug/L	1	0.20	0.14	2/24/2017 18:51	J
Benzo[a]anthracene	0.049	U	ug/L	1	0.20	0.049	2/24/2017 18:51	J
Benzo[a]pyrene	0.15	U	ug/L	1	0.20	0.15	2/24/2017 18:51	J
Benzo[b]fluoranthene	0.050	U	ug/L	1	0.10	0.050	2/24/2017 18:51	J
Benzo[g,h,i]perylene	0.19	U	ug/L	1	0.20	0.19	2/24/2017 18:51	J
Benzo[k]fluoranthene	0.19	U	ug/L	1	0.20	0.19	2/24/2017 18:51	J
Chrysene	0.13	U	ug/L	1	0.20	0.13	2/24/2017 18:51	J
Dibenzo[a,h]anthracene	0.095	U	ug/L	1	0.20	0.095	2/24/2017 18:51	J
Fluoranthene	0.15	U	ug/L	1	0.20	0.15	2/24/2017 18:51	J
Fluorene	0.15	U	ug/L	1	0.20	0.15	2/24/2017 18:51	J
Indeno(1,2,3-cd)pyrene	0.045	U	ug/L	1	0.20	0.045	2/24/2017 18:51	J
Naphthalene	0.19	U	ug/L	1	0.20	0.19	2/24/2017 18:51	J
Phenanthrene	0.16	U	ug/L	1	0.20	0.16	2/24/2017 18:51	J
Pyrene	0.14	U	ug/L	1	0.20	0.14	2/24/2017 18:51	J
Nitrobenzene-d5 (S)	77		%	1	34-139		2/24/2017 18:51	
2-Fluorobiphenyl (S)	71		%	1	36-125		2/24/2017 18:51	
p-Terphenyl-d14 (S)	111		%	1	41-138		2/24/2017 18:51	

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ANALYTICAL RESULTS

Workorder: J1701930 1101 St. Johns Ave

Lab ID: **J1701930004**

Date Received: 02/22/17 12:20 Matrix: Water

Sample ID: **SJ-MW-2**

Date Collected: 02/21/17 14:10

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
VOLATILES								
Analysis Desc: 8260C Analysis, Water			Preparation Method: SW-846 5030B					
			Analytical Method: SW-846 8260C					
1,1,1,2-Tetrachloroethane	0.26	U	ug/L	1	1.0	0.26	2/27/2017 15:52	J
1,1,1-Trichloroethane	0.22	U	ug/L	1	1.0	0.22	2/27/2017 15:52	J
1,1,2,2-Tetrachloroethane	0.20	U	ug/L	1	1.0	0.20	2/27/2017 15:52	J
1,1,2-Trichloroethane	0.30	U	ug/L	1	1.0	0.30	2/27/2017 15:52	J
1,1-Dichloroethane	0.14	U	ug/L	1	1.0	0.14	2/27/2017 15:52	J
1,1-Dichloroethylene	0.18	U	ug/L	1	1.0	0.18	2/27/2017 15:52	J
1,1-Dichloropropene	0.22	U	ug/L	1	1.0	0.22	2/27/2017 15:52	J
1,2,3-Trichlorobenzene	0.54	U	ug/L	1	5.0	0.54	2/27/2017 15:52	J
1,2,3-Trichloropropane	0.30	U	ug/L	1	1.0	0.30	2/27/2017 15:52	J
1,2,4-Trichlorobenzene	0.35	U	ug/L	1	1.0	0.35	2/27/2017 15:52	J
1,2,4-Trimethylbenzene	0.18	U	ug/L	1	1.0	0.18	2/27/2017 15:52	J
1,2-Dibromo-3-Chloropropane	0.11	U	ug/L	1	5.0	0.11	2/27/2017 15:52	J
1,2-Dichlorobenzene	0.18	U	ug/L	1	1.0	0.18	2/27/2017 15:52	J
1,2-Dichloroethane	0.23	U	ug/L	1	1.0	0.23	2/27/2017 15:52	J
1,2-Dichloropropane	0.20	U	ug/L	1	1.0	0.20	2/27/2017 15:52	J
1,3,5-Trimethylbenzene	0.15	U	ug/L	1	1.0	0.15	2/27/2017 15:52	J
1,3-Dichlorobenzene	0.19	U	ug/L	1	1.0	0.19	2/27/2017 15:52	J
1,3-Dichloropropane	0.24	U	ug/L	1	1.0	0.24	2/27/2017 15:52	J
1,4-Dichlorobenzene	0.22	U	ug/L	1	1.0	0.22	2/27/2017 15:52	J
2,2-Dichloropropane	0.22	U	ug/L	1	5.0	0.22	2/27/2017 15:52	J
2-Butanone (MEK)	0.43	U	ug/L	1	5.0	0.43	2/27/2017 15:52	J
2-Chlorotoluene	0.15	U	ug/L	1	1.0	0.15	2/27/2017 15:52	J
2-Hexanone	0.44	U	ug/L	1	5.0	0.44	2/27/2017 15:52	J
4-Chlorotoluene	0.17	U	ug/L	1	1.0	0.17	2/27/2017 15:52	J
4-Methyl-2-pentanone (MIBK)	0.47	U	ug/L	1	5.0	0.47	2/27/2017 15:52	J
Acetone	2.1	U	ug/L	1	5.0	2.1	2/27/2017 15:52	J
Benzene	0.16	U	ug/L	1	1.0	0.16	2/27/2017 15:52	J
Bromobenzene	0.24	U	ug/L	1	1.0	0.24	2/27/2017 15:52	J
Bromodichloromethane	0.25	U	ug/L	1	1.0	0.25	2/27/2017 15:52	J
Bromoform	0.43	U	ug/L	1	5.0	0.43	2/27/2017 15:52	J
Bromomethane	0.24	U	ug/L	1	1.0	0.24	2/27/2017 15:52	J
Carbon Disulfide	0.21	U	ug/L	1	1.0	0.21	2/27/2017 15:52	J
Carbon Tetrachloride	0.36	U	ug/L	1	1.0	0.36	2/27/2017 15:52	J
Chlorobenzene	0.21	U	ug/L	1	1.0	0.21	2/27/2017 15:52	J
Chloroethane	0.33	U	ug/L	1	1.0	0.33	2/27/2017 15:52	J
Chloroform	0.18	U	ug/L	1	1.0	0.18	2/27/2017 15:52	J

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ANALYTICAL RESULTS

Workorder: J1701930 1101 St. Johns Ave

Lab ID: **J1701930004**

Date Received: 02/22/17 12:20 Matrix: Water

Sample ID: **SJ-MW-2**

Date Collected: 02/21/17 14:10

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Chloromethane	0.21	U	ug/L	1	1.0	0.21	2/27/2017 15:52	J
Dibromochloromethane	0.33	U	ug/L	1	1.0	0.33	2/27/2017 15:52	J
Dichlorodifluoromethane	0.15	U	ug/L	1	1.0	0.15	2/27/2017 15:52	J
Ethylbenzene	0.24	U	ug/L	1	1.0	0.24	2/27/2017 15:52	J
Ethylene Dibromide (EDB)	0.020	U	ug/L	1	1.0	0.020	2/27/2017 15:52	J
Hexachlorobutadiene	0.63	U	ug/L	1	5.0	0.63	2/27/2017 15:52	J
Isopropylbenzene	0.14	U	ug/L	1	1.0	0.14	2/27/2017 15:52	J
Methyl tert-butyl Ether (MTBE)	0.17	U	ug/L	1	1.0	0.17	2/27/2017 15:52	J
Methylene Chloride	2.5	U	ug/L	1	5.0	2.5	2/27/2017 15:52	J
Naphthalene	0.27	U	ug/L	1	5.0	0.27	2/27/2017 15:52	J
Styrene	0.23	U	ug/L	1	1.0	0.23	2/27/2017 15:52	J
Tetrachloroethylene (PCE)	0.36	U	ug/L	1	1.0	0.36	2/27/2017 15:52	J
Toluene	0.23	U	ug/L	1	1.0	0.23	2/27/2017 15:52	J
Trichloroethene	0.29	U	ug/L	1	1.0	0.29	2/27/2017 15:52	J
Trichlorofluoromethane	0.32	U	ug/L	1	1.0	0.32	2/27/2017 15:52	J
Vinyl Chloride	0.20	U	ug/L	1	1.0	0.20	2/27/2017 15:52	J
Xylene (Total)	0.53	U	ug/L	1	3.0	0.53	2/27/2017 15:52	J
cis-1,2-Dichloroethylene	0.24	U	ug/L	1	1.0	0.24	2/27/2017 15:52	J
cis-1,3-Dichloropropene	0.16	U	ug/L	1	1.0	0.16	2/27/2017 15:52	J
n-Butylbenzene	0.17	U	ug/L	1	1.0	0.17	2/27/2017 15:52	J
n-propylbenzene	0.63	U	ug/L	1	1.0	0.63	2/27/2017 15:52	J
p-Isopropyltoluene	0.15	U	ug/L	1	1.0	0.15	2/27/2017 15:52	J
sec-butylbenzene	0.15	U	ug/L	1	1.0	0.15	2/27/2017 15:52	J
tert-butylbenzene	0.19	U	ug/L	1	1.0	0.19	2/27/2017 15:52	J
trans-1,2-Dichloroethylene	0.20	U	ug/L	1	1.0	0.20	2/27/2017 15:52	J
trans-1,3-Dichloropropylene	0.18	U	ug/L	1	5.0	0.18	2/27/2017 15:52	J
1,2-Dichloroethane-d4 (S)	98		%	1	70-128		2/27/2017 15:52	
Toluene-d8 (S)	98		%	1	77-119		2/27/2017 15:52	
Bromofluorobenzene (S)	97		%	1	86-123		2/27/2017 15:52	

Lab ID: **J1701930005**

Date Received: 02/22/17 12:20 Matrix: Water

Sample ID: **SJ-MW-2D**

Date Collected: 02/21/17 14:10

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
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METALS

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ANALYTICAL RESULTS

Workorder: J1701930 1101 St. Johns Ave

Lab ID: **J1701930005**

Date Received: 02/22/17 12:20 Matrix: Water

Sample ID: **SJ-MW-2D**

Date Collected: 02/21/17 14:10

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: SW846 6010B		Preparation Method: SW-846 3010A						
Analysis, Water		Analytical Method: SW-846 6010						
Arsenic	0.0085	U	mg/L	1	0.010	0.0085	3/1/2017 17:22	J
Barium	0.018		mg/L	1	0.0020	0.00028	3/1/2017 17:22	J
Cadmium	0.00032	U	mg/L	1	0.00060	0.00032	3/1/2017 17:22	J
Chromium	0.0049		mg/L	1	0.0010	0.00050	3/1/2017 17:22	J
Lead	0.0013	U	mg/L	1	0.0070	0.0013	3/1/2017 17:22	J
Selenium	0.0068	U	mg/L	1	0.020	0.0068	3/1/2017 17:22	J
Silver	0.00044	U	mg/L	1	0.0040	0.00044	3/1/2017 17:22	J

Analysis Desc: SW846 7470A
Analysis, Water

Preparation Method: SW-846 7470A

Analytical Method: SW-846 7470A

Mercury	0.000011	U	mg/L	1	0.00010	0.000011	2/27/2017 14:24	J
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Lab ID: **J1701930006**

Date Received: 02/22/17 12:20 Matrix: Water

Sample ID: **SJ-MW-3**

Date Collected: 02/21/17 14:45

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: SW846 6010B		Preparation Method: SW-846 3010A						
Analysis, Water		Analytical Method: SW-846 6010						
Arsenic	0.0085	U	mg/L	1	0.010	0.0085	3/1/2017 17:44	J
Barium	0.038		mg/L	1	0.0020	0.00028	3/1/2017 17:44	J
Cadmium	0.00032	U	mg/L	1	0.00060	0.00032	3/1/2017 17:44	J
Chromium	0.0035		mg/L	1	0.0010	0.00050	3/1/2017 17:44	J
Lead	0.0013	U	mg/L	1	0.0070	0.0013	3/1/2017 17:44	J
Selenium	0.0068	U	mg/L	1	0.020	0.0068	3/1/2017 17:44	J
Silver	0.00044	U	mg/L	1	0.0040	0.00044	3/1/2017 17:44	J

Analysis Desc: SW846 7470A
Analysis, Water

Preparation Method: SW-846 7470A

Analytical Method: SW-846 7470A

Mercury	0.000011	U	mg/L	1	0.00010	0.000011	2/27/2017 14:27	J
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SEMIVOLATILES

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ANALYTICAL RESULTS

Workorder: J1701930 1101 St. Johns Ave

Lab ID: **J1701930006**

Date Received: 02/22/17 12:20 Matrix: Water

Sample ID: **SJ-MW-3**

Date Collected: 02/21/17 14:45

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: 8270D-SIM Analysis, Water		Preparation Method: SW-846 3510C						
		Analytical Method: SW-846 8270D (SIM)						
1-Methylnaphthalene	0.20	U	ug/L	1	0.20	0.20	2/24/2017 19:19	J
2-Methylnaphthalene	0.20	U	ug/L	1	0.20	0.20	2/24/2017 19:19	J
Acenaphthene	0.30		ug/L	1	0.20	0.16	2/24/2017 19:19	J
Acenaphthylene	0.17	U	ug/L	1	0.20	0.17	2/24/2017 19:19	J
Anthracene	0.14	U	ug/L	1	0.20	0.14	2/24/2017 19:19	J
Benzo[a]anthracene	0.049	U	ug/L	1	0.20	0.049	2/24/2017 19:19	J
Benzo[a]pyrene	0.15	U	ug/L	1	0.20	0.15	2/24/2017 19:19	J
Benzo[b]fluoranthene	0.050	U	ug/L	1	0.10	0.050	2/24/2017 19:19	J
Benzo[g,h,i]perylene	0.19	U	ug/L	1	0.20	0.19	2/24/2017 19:19	J
Benzo[k]fluoranthene	0.19	U	ug/L	1	0.20	0.19	2/24/2017 19:19	J
Chrysene	0.13	U	ug/L	1	0.20	0.13	2/24/2017 19:19	J
Dibenzo[a,h]anthracene	0.095	U	ug/L	1	0.20	0.095	2/24/2017 19:19	J
Fluoranthene	0.15	U	ug/L	1	0.20	0.15	2/24/2017 19:19	J
Fluorene	0.15	U	ug/L	1	0.20	0.15	2/24/2017 19:19	J
Indeno(1,2,3-cd)pyrene	0.045	U	ug/L	1	0.20	0.045	2/24/2017 19:19	J
Naphthalene	0.19	U	ug/L	1	0.20	0.19	2/24/2017 19:19	J
Phenanthrene	0.16	U	ug/L	1	0.20	0.16	2/24/2017 19:19	J
Pyrene	0.14	U	ug/L	1	0.20	0.14	2/24/2017 19:19	J
Nitrobenzene-d5 (S)	80		%	1	34-139		2/24/2017 19:19	
2-Fluorobiphenyl (S)	78		%	1	36-125		2/24/2017 19:19	
p-Terphenyl-d14 (S)	114		%	1	41-138		2/24/2017 19:19	

VOLATILES

Analysis Desc: 8260C Analysis, Water		Preparation Method: SW-846 5030B						
		Analytical Method: SW-846 8260C						
1,1,1,2-Tetrachloroethane	0.26	U	ug/L	1	1.0	0.26	2/27/2017 16:18	J
1,1,1-Trichloroethane	0.22	U	ug/L	1	1.0	0.22	2/27/2017 16:18	J
1,1,2,2-Tetrachloroethane	0.20	U	ug/L	1	1.0	0.20	2/27/2017 16:18	J
1,1,2-Trichloroethane	0.30	U	ug/L	1	1.0	0.30	2/27/2017 16:18	J
1,1-Dichloroethane	0.14	U	ug/L	1	1.0	0.14	2/27/2017 16:18	J
1,1-Dichloroethylene	0.18	U	ug/L	1	1.0	0.18	2/27/2017 16:18	J
1,1-Dichloropropene	0.22	U	ug/L	1	1.0	0.22	2/27/2017 16:18	J
1,2,3-Trichlorobenzene	0.54	U	ug/L	1	5.0	0.54	2/27/2017 16:18	J
1,2,3-Trichloropropane	0.30	U	ug/L	1	1.0	0.30	2/27/2017 16:18	J
1,2,4-Trichlorobenzene	0.35	U	ug/L	1	1.0	0.35	2/27/2017 16:18	J
1,2,4-Trimethylbenzene	0.18	U	ug/L	1	1.0	0.18	2/27/2017 16:18	J
1,2-Dibromo-3-Chloropropane	0.11	U	ug/L	1	5.0	0.11	2/27/2017 16:18	J

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ANALYTICAL RESULTS

Workorder: J1701930 1101 St. Johns Ave

Lab ID: **J1701930006**

Date Received: 02/22/17 12:20 Matrix: Water

Sample ID: **SJ-MW-3**

Date Collected: 02/21/17 14:45

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
1,2-Dichlorobenzene	0.18	U	ug/L	1	1.0	0.18	2/27/2017 16:18	J
1,2-Dichloroethane	0.23	U	ug/L	1	1.0	0.23	2/27/2017 16:18	J
1,2-Dichloropropane	0.20	U	ug/L	1	1.0	0.20	2/27/2017 16:18	J
1,3,5-Trimethylbenzene	0.15	U	ug/L	1	1.0	0.15	2/27/2017 16:18	J
1,3-Dichlorobenzene	0.19	U	ug/L	1	1.0	0.19	2/27/2017 16:18	J
1,3-Dichloropropane	0.24	U	ug/L	1	1.0	0.24	2/27/2017 16:18	J
1,4-Dichlorobenzene	0.22	U	ug/L	1	1.0	0.22	2/27/2017 16:18	J
2,2-Dichloropropane	0.22	U	ug/L	1	5.0	0.22	2/27/2017 16:18	J
2-Butanone (MEK)	0.43	U	ug/L	1	5.0	0.43	2/27/2017 16:18	J
2-Chlorotoluene	0.15	U	ug/L	1	1.0	0.15	2/27/2017 16:18	J
2-Hexanone	0.44	U	ug/L	1	5.0	0.44	2/27/2017 16:18	J
4-Chlorotoluene	0.17	U	ug/L	1	1.0	0.17	2/27/2017 16:18	J
4-Methyl-2-pentanone (MIBK)	0.47	U	ug/L	1	5.0	0.47	2/27/2017 16:18	J
Acetone	2.1	U	ug/L	1	5.0	2.1	2/27/2017 16:18	J
Benzene	0.16	U	ug/L	1	1.0	0.16	2/27/2017 16:18	J
Bromobenzene	0.24	U	ug/L	1	1.0	0.24	2/27/2017 16:18	J
Bromodichloromethane	0.25	U	ug/L	1	1.0	0.25	2/27/2017 16:18	J
Bromoform	0.43	U	ug/L	1	5.0	0.43	2/27/2017 16:18	J
Bromomethane	0.24	U	ug/L	1	1.0	0.24	2/27/2017 16:18	J
Carbon Disulfide	0.21	U	ug/L	1	1.0	0.21	2/27/2017 16:18	J
Carbon Tetrachloride	0.36	U	ug/L	1	1.0	0.36	2/27/2017 16:18	J
Chlorobenzene	0.21	U	ug/L	1	1.0	0.21	2/27/2017 16:18	J
Chloroethane	0.33	U	ug/L	1	1.0	0.33	2/27/2017 16:18	J
Chloroform	0.18	U	ug/L	1	1.0	0.18	2/27/2017 16:18	J
Chloromethane	0.21	U	ug/L	1	1.0	0.21	2/27/2017 16:18	J
Dibromochloromethane	0.33	U	ug/L	1	1.0	0.33	2/27/2017 16:18	J
Dichlorodifluoromethane	0.15	U	ug/L	1	1.0	0.15	2/27/2017 16:18	J
Ethylbenzene	0.24	U	ug/L	1	1.0	0.24	2/27/2017 16:18	J
Ethylene Dibromide (EDB)	0.020	U	ug/L	1	1.0	0.020	2/27/2017 16:18	J
Hexachlorobutadiene	0.63	U	ug/L	1	5.0	0.63	2/27/2017 16:18	J
Isopropylbenzene	0.14	U	ug/L	1	1.0	0.14	2/27/2017 16:18	J
Methyl tert-butyl Ether (MTBE)	0.17	U	ug/L	1	1.0	0.17	2/27/2017 16:18	J
Methylene Chloride	2.5	U	ug/L	1	5.0	2.5	2/27/2017 16:18	J
Naphthalene	0.27	U	ug/L	1	5.0	0.27	2/27/2017 16:18	J
Styrene	0.23	U	ug/L	1	1.0	0.23	2/27/2017 16:18	J
Tetrachloroethylene (PCE)	0.36	U	ug/L	1	1.0	0.36	2/27/2017 16:18	J
Toluene	0.23	U	ug/L	1	1.0	0.23	2/27/2017 16:18	J
Trichloroethene	0.29	U	ug/L	1	1.0	0.29	2/27/2017 16:18	J
Trichlorofluoromethane	0.32	U	ug/L	1	1.0	0.32	2/27/2017 16:18	J
Vinyl Chloride	0.20	U	ug/L	1	1.0	0.20	2/27/2017 16:18	J

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ANALYTICAL RESULTS

Workorder: J1701930 1101 St. Johns Ave

Lab ID: **J1701930006**

Date Received: 02/22/17 12:20 Matrix: Water

Sample ID: **SJ-MW-3**

Date Collected: 02/21/17 14:45

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Xylene (Total)	0.53	U	ug/L	1	3.0	0.53	2/27/2017 16:18	J
cis-1,2-Dichloroethylene	0.24	U	ug/L	1	1.0	0.24	2/27/2017 16:18	J
cis-1,3-Dichloropropene	0.16	U	ug/L	1	1.0	0.16	2/27/2017 16:18	J
n-Butylbenzene	0.17	U	ug/L	1	1.0	0.17	2/27/2017 16:18	J
n-propylbenzene	0.63	U	ug/L	1	1.0	0.63	2/27/2017 16:18	J
p-Isopropyltoluene	0.15	U	ug/L	1	1.0	0.15	2/27/2017 16:18	J
sec-butylbenzene	0.15	U	ug/L	1	1.0	0.15	2/27/2017 16:18	J
tert-butylbenzene	0.19	U	ug/L	1	1.0	0.19	2/27/2017 16:18	J
trans-1,2-Dichloroethylene	0.20	U	ug/L	1	1.0	0.20	2/27/2017 16:18	J
trans-1,3-Dichloropropylene	0.18	U	ug/L	1	5.0	0.18	2/27/2017 16:18	J
1,2-Dichloroethane-d4 (S)	97		%	1	70-128		2/27/2017 16:18	
Toluene-d8 (S)	95		%	1	77-119		2/27/2017 16:18	
Bromofluorobenzene (S)	98		%	1	86-123		2/27/2017 16:18	

Lab ID: **J1701930007**

Date Received: 02/22/17 12:20 Matrix: Water

Sample ID: **SJ-MW-4**

Date Collected: 02/21/17 15:20

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: SW846 6010B			Preparation Method: SW-846 3010A					
Analysis, Water			Analytical Method: SW-846 6010					
Arsenic	0.0085	U	mg/L	1	0.010	0.0085	3/1/2017 17:48	J
Barium	0.030		mg/L	1	0.0020	0.00028	3/1/2017 17:48	J
Cadmium	0.00032	U	mg/L	1	0.00060	0.00032	3/1/2017 17:48	J
Chromium	0.0088		mg/L	1	0.0010	0.00050	3/1/2017 17:48	J
Lead	0.0013	U	mg/L	1	0.0070	0.0013	3/1/2017 17:48	J
Selenium	0.0068	U	mg/L	1	0.020	0.0068	3/1/2017 17:48	J
Silver	0.00044	U	mg/L	1	0.0040	0.00044	3/1/2017 17:48	J
Analysis Desc: SW846 7470A			Preparation Method: SW-846 7470A					
Analysis, Water			Analytical Method: SW-846 7470A					
Mercury	0.000015	I	mg/L	1	0.00010	0.000011	2/27/2017 14:30	J

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ANALYTICAL RESULTS

Workorder: J1701930 1101 St. Johns Ave

Lab ID: **J1701930007**

Date Received: 02/22/17 12:20 Matrix: Water

Sample ID: **SJ-MW-4**

Date Collected: 02/21/17 15:20

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: 8270D-SIM Analysis, Water		Preparation Method: SW-846 3510C						
		Analytical Method: SW-846 8270D (SIM)						
1-Methylnaphthalene	0.20	U	ug/L	1	0.20	0.20	2/24/2017 19:47	J
2-Methylnaphthalene	0.20	U	ug/L	1	0.20	0.20	2/24/2017 19:47	J
Acenaphthene	0.32		ug/L	1	0.20	0.16	2/24/2017 19:47	J
Acenaphthylene	0.17	U	ug/L	1	0.20	0.17	2/24/2017 19:47	J
Anthracene	0.14	U	ug/L	1	0.20	0.14	2/24/2017 19:47	J
Benzo[a]anthracene	0.049	U	ug/L	1	0.20	0.049	2/24/2017 19:47	J
Benzo[a]pyrene	0.15	U	ug/L	1	0.20	0.15	2/24/2017 19:47	J
Benzo[b]fluoranthene	0.050	U	ug/L	1	0.10	0.050	2/24/2017 19:47	J
Benzo[g,h,i]perylene	0.19	U	ug/L	1	0.20	0.19	2/24/2017 19:47	J
Benzo[k]fluoranthene	0.19	U	ug/L	1	0.20	0.19	2/24/2017 19:47	J
Chrysene	0.13	U	ug/L	1	0.20	0.13	2/24/2017 19:47	J
Dibenzo[a,h]anthracene	0.095	U	ug/L	1	0.20	0.095	2/24/2017 19:47	J
Fluoranthene	0.15	U	ug/L	1	0.20	0.15	2/24/2017 19:47	J
Fluorene	0.15	U	ug/L	1	0.20	0.15	2/24/2017 19:47	J
Indeno(1,2,3-cd)pyrene	0.045	U	ug/L	1	0.20	0.045	2/24/2017 19:47	J
Naphthalene	0.19	U	ug/L	1	0.20	0.19	2/24/2017 19:47	J
Phenanthrene	0.16	U	ug/L	1	0.20	0.16	2/24/2017 19:47	J
Pyrene	0.14	U	ug/L	1	0.20	0.14	2/24/2017 19:47	J
Nitrobenzene-d5 (S)	79		%	1	34-139		2/24/2017 19:47	
2-Fluorobiphenyl (S)	80		%	1	36-125		2/24/2017 19:47	
p-Terphenyl-d14 (S)	113		%	1	41-138		2/24/2017 19:47	

VOLATILES

Analysis Desc: 8260C Analysis, Water		Preparation Method: SW-846 5030B						
		Analytical Method: SW-846 8260C						
1,1,1,2-Tetrachloroethane	0.26	U	ug/L	1	1.0	0.26	2/27/2017 16:44	J
1,1,1-Trichloroethane	0.22	U	ug/L	1	1.0	0.22	2/27/2017 16:44	J
1,1,2,2-Tetrachloroethane	0.20	U	ug/L	1	1.0	0.20	2/27/2017 16:44	J
1,1,2-Trichloroethane	0.30	U	ug/L	1	1.0	0.30	2/27/2017 16:44	J
1,1-Dichloroethane	0.14	U	ug/L	1	1.0	0.14	2/27/2017 16:44	J
1,1-Dichloroethylene	0.18	U	ug/L	1	1.0	0.18	2/27/2017 16:44	J
1,1-Dichloropropene	0.22	U	ug/L	1	1.0	0.22	2/27/2017 16:44	J
1,2,3-Trichlorobenzene	0.54	U	ug/L	1	5.0	0.54	2/27/2017 16:44	J
1,2,3-Trichloropropane	0.30	U	ug/L	1	1.0	0.30	2/27/2017 16:44	J
1,2,4-Trichlorobenzene	0.35	U	ug/L	1	1.0	0.35	2/27/2017 16:44	J
1,2,4-Trimethylbenzene	0.18	U	ug/L	1	1.0	0.18	2/27/2017 16:44	J
1,2-Dibromo-3-Chloropropane	0.11	U	ug/L	1	5.0	0.11	2/27/2017 16:44	J

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ANALYTICAL RESULTS

Workorder: J1701930 1101 St. Johns Ave

Lab ID: **J1701930007**

Date Received: 02/22/17 12:20 Matrix: Water

Sample ID: **SJ-MW-4**

Date Collected: 02/21/17 15:20

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
1,2-Dichlorobenzene	0.18	U	ug/L	1	1.0	0.18	2/27/2017 16:44	J
1,2-Dichloroethane	0.23	U	ug/L	1	1.0	0.23	2/27/2017 16:44	J
1,2-Dichloropropane	0.20	U	ug/L	1	1.0	0.20	2/27/2017 16:44	J
1,3,5-Trimethylbenzene	0.15	U	ug/L	1	1.0	0.15	2/27/2017 16:44	J
1,3-Dichlorobenzene	0.19	U	ug/L	1	1.0	0.19	2/27/2017 16:44	J
1,3-Dichloropropane	0.24	U	ug/L	1	1.0	0.24	2/27/2017 16:44	J
1,4-Dichlorobenzene	0.22	U	ug/L	1	1.0	0.22	2/27/2017 16:44	J
2,2-Dichloropropane	0.22	U	ug/L	1	5.0	0.22	2/27/2017 16:44	J
2-Butanone (MEK)	0.43	U	ug/L	1	5.0	0.43	2/27/2017 16:44	J
2-Chlorotoluene	0.15	U	ug/L	1	1.0	0.15	2/27/2017 16:44	J
2-Hexanone	0.44	U	ug/L	1	5.0	0.44	2/27/2017 16:44	J
4-Chlorotoluene	0.17	U	ug/L	1	1.0	0.17	2/27/2017 16:44	J
4-Methyl-2-pentanone (MIBK)	0.47	U	ug/L	1	5.0	0.47	2/27/2017 16:44	J
Acetone	3.0	I	ug/L	1	5.0	2.1	2/27/2017 16:44	J
Benzene	0.16	U	ug/L	1	1.0	0.16	2/27/2017 16:44	J
Bromobenzene	0.24	U	ug/L	1	1.0	0.24	2/27/2017 16:44	J
Bromodichloromethane	0.25	U	ug/L	1	1.0	0.25	2/27/2017 16:44	J
Bromoform	0.43	U	ug/L	1	5.0	0.43	2/27/2017 16:44	J
Bromomethane	0.24	U	ug/L	1	1.0	0.24	2/27/2017 16:44	J
Carbon Disulfide	0.21	U	ug/L	1	1.0	0.21	2/27/2017 16:44	J
Carbon Tetrachloride	0.36	U	ug/L	1	1.0	0.36	2/27/2017 16:44	J
Chlorobenzene	0.21	U	ug/L	1	1.0	0.21	2/27/2017 16:44	J
Chloroethane	0.33	U	ug/L	1	1.0	0.33	2/27/2017 16:44	J
Chloroform	0.18	U	ug/L	1	1.0	0.18	2/27/2017 16:44	J
Chloromethane	0.21	U	ug/L	1	1.0	0.21	2/27/2017 16:44	J
Dibromochloromethane	0.33	U	ug/L	1	1.0	0.33	2/27/2017 16:44	J
Dichlorodifluoromethane	0.15	U	ug/L	1	1.0	0.15	2/27/2017 16:44	J
Ethylbenzene	0.24	U	ug/L	1	1.0	0.24	2/27/2017 16:44	J
Ethylene Dibromide (EDB)	0.020	U	ug/L	1	1.0	0.020	2/27/2017 16:44	J
Hexachlorobutadiene	0.63	U	ug/L	1	5.0	0.63	2/27/2017 16:44	J
Isopropylbenzene	0.14	U	ug/L	1	1.0	0.14	2/27/2017 16:44	J
Methyl tert-butyl Ether (MTBE)	0.17	U	ug/L	1	1.0	0.17	2/27/2017 16:44	J
Methylene Chloride	2.5	U	ug/L	1	5.0	2.5	2/27/2017 16:44	J
Naphthalene	0.27	U	ug/L	1	5.0	0.27	2/27/2017 16:44	J
Styrene	0.23	U	ug/L	1	1.0	0.23	2/27/2017 16:44	J
Tetrachloroethylene (PCE)	0.36	U	ug/L	1	1.0	0.36	2/27/2017 16:44	J
Toluene	0.23	U	ug/L	1	1.0	0.23	2/27/2017 16:44	J
Trichloroethene	0.29	U	ug/L	1	1.0	0.29	2/27/2017 16:44	J
Trichlorofluoromethane	0.32	U	ug/L	1	1.0	0.32	2/27/2017 16:44	J
Vinyl Chloride	0.20	U	ug/L	1	1.0	0.20	2/27/2017 16:44	J

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ANALYTICAL RESULTS

Workorder: J1701930 1101 St. Johns Ave

Lab ID: **J1701930007**

Date Received: 02/22/17 12:20 Matrix: Water

Sample ID: **SJ-MW-4**

Date Collected: 02/21/17 15:20

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Xylene (Total)	0.53	U	ug/L	1	3.0	0.53	2/27/2017 16:44	J
cis-1,2-Dichloroethylene	0.24	U	ug/L	1	1.0	0.24	2/27/2017 16:44	J
cis-1,3-Dichloropropene	0.16	U	ug/L	1	1.0	0.16	2/27/2017 16:44	J
n-Butylbenzene	0.17	U	ug/L	1	1.0	0.17	2/27/2017 16:44	J
n-propylbenzene	0.63	U	ug/L	1	1.0	0.63	2/27/2017 16:44	J
p-Isopropyltoluene	0.15	U	ug/L	1	1.0	0.15	2/27/2017 16:44	J
sec-butylbenzene	0.15	U	ug/L	1	1.0	0.15	2/27/2017 16:44	J
tert-butylbenzene	0.19	U	ug/L	1	1.0	0.19	2/27/2017 16:44	J
trans-1,2-Dichloroethylene	0.20	U	ug/L	1	1.0	0.20	2/27/2017 16:44	J
trans-1,3-Dichloropropylene	0.18	U	ug/L	1	5.0	0.18	2/27/2017 16:44	J
1,2-Dichloroethane-d4 (S)	99		%	1	70-128		2/27/2017 16:44	
Toluene-d8 (S)	96		%	1	77-119		2/27/2017 16:44	
Bromofluorobenzene (S)	97		%	1	86-123		2/27/2017 16:44	

Lab ID: **J1701930008**

Date Received: 02/22/17 12:20 Matrix: Water

Sample ID: **Trip Blank**

Date Collected: 02/21/17 15:45

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
VOLATILES								
Analysis Desc: 8260C Analysis, Water		Preparation Method: SW-846 5030B						
Analytical Method: SW-846 8260C								
1,1,1,2-Tetrachloroethane	0.26	U	ug/L	1	1.0	0.26	2/27/2017 17:10	J
1,1,1-Trichloroethane	0.22	U	ug/L	1	1.0	0.22	2/27/2017 17:10	J
1,1,2,2-Tetrachloroethane	0.20	U	ug/L	1	1.0	0.20	2/27/2017 17:10	J
1,1,2-Trichloroethane	0.30	U	ug/L	1	1.0	0.30	2/27/2017 17:10	J
1,1-Dichloroethane	0.14	U	ug/L	1	1.0	0.14	2/27/2017 17:10	J
1,1-Dichloroethylene	0.18	U	ug/L	1	1.0	0.18	2/27/2017 17:10	J
1,1-Dichloropropene	0.22	U	ug/L	1	1.0	0.22	2/27/2017 17:10	J
1,2,3-Trichlorobenzene	0.54	U	ug/L	1	5.0	0.54	2/27/2017 17:10	J
1,2,3-Trichloropropane	0.30	U	ug/L	1	1.0	0.30	2/27/2017 17:10	J
1,2,4-Trichlorobenzene	0.35	U	ug/L	1	1.0	0.35	2/27/2017 17:10	J
1,2,4-Trimethylbenzene	0.18	U	ug/L	1	1.0	0.18	2/27/2017 17:10	J
1,2-Dibromo-3-Chloropropane	0.11	U	ug/L	1	5.0	0.11	2/27/2017 17:10	J
1,2-Dichlorobenzene	0.18	U	ug/L	1	1.0	0.18	2/27/2017 17:10	J
1,2-Dichloroethane	0.23	U	ug/L	1	1.0	0.23	2/27/2017 17:10	J

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ANALYTICAL RESULTS

Workorder: J1701930 1101 St. Johns Ave

Lab ID: **J1701930008**

Date Received: 02/22/17 12:20 Matrix: Water

Sample ID: **Trip Blank**

Date Collected: 02/21/17 15:45

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
1,2-Dichloropropane	0.20	U	ug/L	1	1.0	0.20	2/27/2017 17:10	J
1,3,5-Trimethylbenzene	0.15	U	ug/L	1	1.0	0.15	2/27/2017 17:10	J
1,3-Dichlorobenzene	0.19	U	ug/L	1	1.0	0.19	2/27/2017 17:10	J
1,3-Dichloropropane	0.24	U	ug/L	1	1.0	0.24	2/27/2017 17:10	J
1,4-Dichlorobenzene	0.22	U	ug/L	1	1.0	0.22	2/27/2017 17:10	J
2,2-Dichloropropane	0.22	U	ug/L	1	5.0	0.22	2/27/2017 17:10	J
2-Butanone (MEK)	0.43	U	ug/L	1	5.0	0.43	2/27/2017 17:10	J
2-Chlorotoluene	0.15	U	ug/L	1	1.0	0.15	2/27/2017 17:10	J
2-Hexanone	0.44	U	ug/L	1	5.0	0.44	2/27/2017 17:10	J
4-Chlorotoluene	0.17	U	ug/L	1	1.0	0.17	2/27/2017 17:10	J
4-Methyl-2-pentanone (MIBK)	0.47	U	ug/L	1	5.0	0.47	2/27/2017 17:10	J
Acetone	15		ug/L	1	5.0	2.1	2/27/2017 17:10	J
Benzene	0.16	U	ug/L	1	1.0	0.16	2/27/2017 17:10	J
Bromobenzene	0.24	U	ug/L	1	1.0	0.24	2/27/2017 17:10	J
Bromodichloromethane	0.25	U	ug/L	1	1.0	0.25	2/27/2017 17:10	J
Bromoform	0.43	U	ug/L	1	5.0	0.43	2/27/2017 17:10	J
Bromomethane	0.24	U	ug/L	1	1.0	0.24	2/27/2017 17:10	J
Carbon Disulfide	0.21	U	ug/L	1	1.0	0.21	2/27/2017 17:10	J
Carbon Tetrachloride	0.36	U	ug/L	1	1.0	0.36	2/27/2017 17:10	J
Chlorobenzene	0.21	U	ug/L	1	1.0	0.21	2/27/2017 17:10	J
Chloroethane	0.33	U	ug/L	1	1.0	0.33	2/27/2017 17:10	J
Chloroform	0.18	U	ug/L	1	1.0	0.18	2/27/2017 17:10	J
Chloromethane	0.21	U	ug/L	1	1.0	0.21	2/27/2017 17:10	J
Dibromochloromethane	0.33	U	ug/L	1	1.0	0.33	2/27/2017 17:10	J
Dichlorodifluoromethane	0.15	U	ug/L	1	1.0	0.15	2/27/2017 17:10	J
Ethylbenzene	0.24	U	ug/L	1	1.0	0.24	2/27/2017 17:10	J
Ethylene Dibromide (EDB)	0.020	U	ug/L	1	1.0	0.020	2/27/2017 17:10	J
Hexachlorobutadiene	0.63	U	ug/L	1	5.0	0.63	2/27/2017 17:10	J
Isopropylbenzene	0.14	U	ug/L	1	1.0	0.14	2/27/2017 17:10	J
Methyl tert-butyl Ether (MTBE)	0.17	U	ug/L	1	1.0	0.17	2/27/2017 17:10	J
Methylene Chloride	2.5	U	ug/L	1	5.0	2.5	2/27/2017 17:10	J
Naphthalene	0.27	U	ug/L	1	5.0	0.27	2/27/2017 17:10	J
Styrene	0.23	U	ug/L	1	1.0	0.23	2/27/2017 17:10	J
Tetrachloroethylene (PCE)	0.36	U	ug/L	1	1.0	0.36	2/27/2017 17:10	J
Toluene	0.23	U	ug/L	1	1.0	0.23	2/27/2017 17:10	J
Trichloroethene	0.29	U	ug/L	1	1.0	0.29	2/27/2017 17:10	J
Trichlorofluoromethane	0.32	U	ug/L	1	1.0	0.32	2/27/2017 17:10	J
Vinyl Chloride	0.20	U	ug/L	1	1.0	0.20	2/27/2017 17:10	J
Xylene (Total)	0.53	U	ug/L	1	3.0	0.53	2/27/2017 17:10	J
cis-1,2-Dichloroethylene	0.24	U	ug/L	1	1.0	0.24	2/27/2017 17:10	J

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ANALYTICAL RESULTS

Workorder: J1701930 1101 St. Johns Ave

Lab ID: **J1701930008**

Date Received: 02/22/17 12:20 Matrix: Water

Sample ID: **Trip Blank**

Date Collected: 02/21/17 15:45

Sample Description:

Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
cis-1,3-Dichloropropene	0.16	U	ug/L	1	1.0	0.16	2/27/2017 17:10	J
n-Butylbenzene	0.17	U	ug/L	1	1.0	0.17	2/27/2017 17:10	J
n-propylbenzene	0.63	U	ug/L	1	1.0	0.63	2/27/2017 17:10	J
p-Isopropyltoluene	0.15	U	ug/L	1	1.0	0.15	2/27/2017 17:10	J
sec-butylbenzene	0.15	U	ug/L	1	1.0	0.15	2/27/2017 17:10	J
tert-butylbenzene	0.19	U	ug/L	1	1.0	0.19	2/27/2017 17:10	J
trans-1,2-Dichloroethylene	0.20	U	ug/L	1	1.0	0.20	2/27/2017 17:10	J
trans-1,3-Dichloropropylene	0.18	U	ug/L	1	5.0	0.18	2/27/2017 17:10	J
1,2-Dichloroethane-d4 (S)	100		%	1	70-128		2/27/2017 17:10	
Toluene-d8 (S)	96		%	1	77-119		2/27/2017 17:10	
Bromofluorobenzene (S)	98		%	1	86-123		2/27/2017 17:10	

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ANALYTICAL RESULTS QUALIFIERS

Workorder: J1701930 1101 St. Johns Ave

PARAMETER QUALIFIERS

- U The compound was analyzed for but not detected.
- I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

LAB QUALIFIERS

- J DOH Certification #E82574(AEL-JAX)(FL NELAC Certification)

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QUALITY CONTROL DATA

Workorder: J1701930 1101 St. Johns Ave

QC Batch: EXTj/3182 Analysis Method: SW-846 8270D (SIM)
QC Batch Method: SW-846 3510C Prepared: 02/23/2017 09:30
Associated Lab Samples: J1701930001, J1701930003, J1701930004, J1701930006, J1701930007

METHOD BLANK: 2280724

Parameter	Units	Blank Result	Reporting Limit Qualifiers
SEMIVOLATILES			
Naphthalene	ug/L	0.19	0.19 U
2-Methylnaphthalene	ug/L	0.20	0.20 U
1-Methylnaphthalene	ug/L	0.20	0.20 U
Acenaphthylene	ug/L	0.17	0.17 U
Acenaphthene	ug/L	0.16	0.16 U
Fluorene	ug/L	0.15	0.15 U
Phenanthrene	ug/L	0.16	0.16 U
Anthracene	ug/L	0.14	0.14 U
Fluoranthene	ug/L	0.15	0.15 U
Pyrene	ug/L	0.14	0.14 U
Benzo[a]anthracene	ug/L	0.049	0.049 U
Chrysene	ug/L	0.13	0.13 U
Benzo[b]fluoranthene	ug/L	0.050	0.050 U
Benzo[k]fluoranthene	ug/L	0.19	0.19 U
Benzo[a]pyrene	ug/L	0.15	0.15 U
Indeno(1,2,3-cd)pyrene	ug/L	0.045	0.045 U
Dibenzo[a,h]anthracene	ug/L	0.095	0.095 U
Benzo[g,h,i]perylene	ug/L	0.19	0.19 U
Nitrobenzene-d5 (S)	%	85	34-139
2-Fluorobiphenyl (S)	%	82	36-125
p-Terphenyl-d14 (S)	%	86	41-138

LABORATORY CONTROL SAMPLE: 2280725

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits Qualifiers
SEMIVOLATILES					
Naphthalene	ug/L	20	18	91	43-120
2-Methylnaphthalene	ug/L	20	17	85	39-123
1-Methylnaphthalene	ug/L	20	18	89	41-123
Acenaphthylene	ug/L	20	20	98	35-121
Acenaphthene	ug/L	20	20	99	46-120
Fluorene	ug/L	20	20	100	48-124
Phenanthrene	ug/L	20	21	103	49-125
Anthracene	ug/L	20	21	105	49-127
Fluoranthene	ug/L	20	22	112	48-130

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QUALITY CONTROL DATA

Workorder: J1701930 1101 St. Johns Ave

LABORATORY CONTROL SAMPLE: 2280725

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Pyrene	ug/L	20	22	111	48-131	
Benzo[a]anthracene	ug/L	20	21	106	49-130	
Chrysene	ug/L	20	22	111	49-130	
Benzo[b]fluoranthene	ug/L	20	17	85	43-134	
Benzo[k]fluoranthene	ug/L	20	18	91	44-134	
Benzo[a]pyrene	ug/L	20	17	87	43-130	
Indeno(1,2,3-cd)pyrene	ug/L	20	16	79	38-137	
Dibenzo[a,h]anthracene	ug/L	20	16	78	34-141	
Benzo[g,h,i]perylene	ug/L	20	16	82	34-138	
Nitrobenzene-d5 (S)	%			94	34-139	
2-Fluorobiphenyl (S)	%			87	36-125	
p-Terphenyl-d14 (S)	%			102	41-138	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2282203 2282204 Original: J1701982001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	Max RPD	RPD	Qualifiers
SEMIVOLATILES											
Naphthalene	ug/L	0.28	20	14	15	70	74	43-120	6	30	
2-Methylnaphthalene	ug/L	0	20	14	14	68	70	39-123	2	30	
1-Methylnaphthalene	ug/L	0	20	14	15	71	74	41-123	3	30	
Acenaphthylene	ug/L	0	20	16	17	80	86	35-121	8	30	
Acenaphthene	ug/L	0	20	16	17	81	87	46-120	7	30	
Fluorene	ug/L	0	20	17	18	87	90	48-124	3	30	
Phenanthrene	ug/L	0	20	20	20	98	98	49-125	0	30	
Anthracene	ug/L	0	20	19	17	95	86	49-127	9	30	
Fluoranthene	ug/L	0	20	22	22	109	108	48-130	2	30	
Pyrene	ug/L	0	20	22	21	110	105	48-131	5	30	
Benzo[a]anthracene	ug/L	0	20	21	20	103	100	49-130	3	30	
Chrysene	ug/L	0	20	21	21	107	107	49-130	0	30	
Benzo[b]fluoranthene	ug/L	0	20	18	17	88	87	43-134	1	30	
Benzo[k]fluoranthene	ug/L	0	20	19	19	93	94	44-134	1	30	
Benzo[a]pyrene	ug/L	0	20	15	13	77	64	43-130	18	30	
Indeno(1,2,3-cd)pyrene	ug/L	0	20	18	19	91	93	38-137	2	30	
Dibenzo[a,h]anthracene	ug/L	0	20	19	19	94	95	34-141	1	30	
Benzo[g,h,i]perylene	ug/L	0	20	18	19	92	94	34-138	3	30	
Nitrobenzene-d5 (S)	%					69	80	34-139	14	30	
2-Fluorobiphenyl (S)	%					71	73	36-125	2	30	
p-Terphenyl-d14 (S)	%					102	98	41-138	4	30	

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QUALITY CONTROL DATA

Workorder: J1701930 1101 St. Johns Ave

QC Batch: DGMJ/2593 Analysis Method: SW-846 6010
QC Batch Method: SW-846 3010A Prepared: 02/27/2017 07:45
Associated Lab Samples: J1701930001, J1701930003, J1701930004, J1701930005, J1701930006, J1701930007

METHOD BLANK: 2281396

Parameter	Units	Blank Result	Reporting Limit Qualifiers
METALS			
Silver	mg/L	0.00044	0.00044 U
Arsenic	mg/L	0.0085	0.0085 U
Barium	mg/L	0.00028	0.00028 U
Cadmium	mg/L	0.00032	0.00032 U
Chromium	mg/L	0.00050	0.00050 U
Lead	mg/L	0.0013	0.0013 U
Selenium	mg/L	0.0068	0.0068 U

LABORATORY CONTROL SAMPLE & LCSD: 2281397 2281398

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD Qualifiers
METALS									
Silver	mg/L	0.4	0.40	0.41	101	102	80-120	1	20
Arsenic	mg/L	0.4	0.41	0.41	102	101	80-120	1	20
Barium	mg/L	0.4	0.40	0.40	99	100	80-120	1	20
Cadmium	mg/L	0.4	0.41	0.41	101	103	80-120	1	20
Chromium	mg/L	0.4	0.41	0.41	102	103	80-120	1	20
Lead	mg/L	0.4	0.38	0.38	96	96	80-120	0	20
Selenium	mg/L	0.4	0.41	0.41	102	102	80-120	0	20

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2281399 2281400 Original: J1701929001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD Qualifiers
METALS										
Silver	mg/L	0	0.4	0.42	0.42	104	105	75-125	0	20
Arsenic	mg/L	0	0.4	0.42	0.42	104	104	75-125	0	20
Barium	mg/L	0.051	0.4	0.45	0.45	99	99	75-125	1	20
Cadmium	mg/L	0.00031	0.4	0.41	0.40	102	101	75-125	1	20
Chromium	mg/L	0.00083	0.4	0.41	0.41	103	103	75-125	0	20
Lead	mg/L	0	0.4	0.38	0.38	95	95	75-125	0	20
Selenium	mg/L	0	0.4	0.39	0.40	99	99	75-125	0	20

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QUALITY CONTROL DATA

Workorder: J1701930 1101 St. Johns Ave

QC Batch: DGMj/2595 Analysis Method: SW-846 7470A
QC Batch Method: SW-846 7470A Prepared: 02/27/2017 11:00
Associated Lab Samples: J1701930001, J1701930003, J1701930004, J1701930005, J1701930006, J1701930007

METHOD BLANK: 2281978

Parameter	Units	Blank Result	Reporting Limit Qualifiers
METALS			
Mercury	mg/L	0.000011	0.000011 U

LABORATORY CONTROL SAMPLE & LCSD: 2281979 2281980

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS										
Mercury	mg/L	0.002	0.0021	0.0021	105	107	80-120	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2281981 2281982 Original: J1701825001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Mercury	mg/L	8.5e-005	0.01	0.010	0.011	101	106	80-120	4	20	

QC Batch: MSVj/3348 Analysis Method: SW-846 8260C
QC Batch Method: SW-846 5030B Prepared: 02/27/2017 09:46
Associated Lab Samples: J1701930001, J1701930002, J1701930003, J1701930004, J1701930006, J1701930007, J1701930008

METHOD BLANK: 2283156

Parameter	Units	Blank Result	Reporting Limit Qualifiers
VOLATILES			
Dichlorodifluoromethane	ug/L	0.15	0.15 U
Chloromethane	ug/L	0.21	0.21 U
Vinyl Chloride	ug/L	0.20	0.20 U
Bromomethane	ug/L	0.24	0.24 U
Chloroethane	ug/L	0.33	0.33 U

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QUALITY CONTROL DATA

Workorder: J1701930 1101 St. Johns Ave

METHOD BLANK: 2283156

Parameter	Units	Blank Result	Reporting Limit Qualifiers
Trichlorofluoromethane	ug/L	0.32	0.32 U
Acetone	ug/L	2.1	2.1 U
1,1-Dichloroethylene	ug/L	0.18	0.18 U
Methylene Chloride	ug/L	2.5	2.5 U
Carbon Disulfide	ug/L	0.21	0.21 U
trans-1,2-Dichloroethylene	ug/L	0.20	0.20 U
Methyl tert-butyl Ether (MTBE)	ug/L	0.17	0.17 U
1,1-Dichloroethane	ug/L	0.14	0.14 U
2-Butanone (MEK)	ug/L	0.43	0.43 U
cis-1,2-Dichloroethylene	ug/L	0.24	0.24 U
Chloroform	ug/L	0.18	0.18 U
2,2-Dichloropropane	ug/L	0.22	0.22 U
1,2-Dichloroethane	ug/L	0.23	0.23 U
1,1,1-Trichloroethane	ug/L	0.22	0.22 U
1,1-Dichloropropene	ug/L	0.22	0.22 U
Carbon Tetrachloride	ug/L	0.36	0.36 U
Benzene	ug/L	0.16	0.16 U
1,2-Dichloropropane	ug/L	0.20	0.20 U
Trichloroethene	ug/L	0.29	0.29 U
Bromodichloromethane	ug/L	0.25	0.25 U
cis-1,3-Dichloropropene	ug/L	0.16	0.16 U
4-Methyl-2-pentanone (MIBK)	ug/L	0.47	0.47 U
trans-1,3-Dichloropropylene	ug/L	0.18	0.18 U
1,1,2-Trichloroethane	ug/L	0.30	0.30 U
Toluene	ug/L	0.23	0.23 U
1,3-Dichloropropane	ug/L	0.24	0.24 U
2-Hexanone	ug/L	0.44	0.44 U
Dibromochloromethane	ug/L	0.33	0.33 U
Ethylene Dibromide (EDB)	ug/L	0.020	0.020 U
Tetrachloroethylene (PCE)	ug/L	0.36	0.36 U
1,1,1,2-Tetrachloroethane	ug/L	0.26	0.26 U
Chlorobenzene	ug/L	0.21	0.21 U
Ethylbenzene	ug/L	0.24	0.24 U
Bromoform	ug/L	0.43	0.43 U
Styrene	ug/L	0.23	0.23 U
1,1,2,2-Tetrachloroethane	ug/L	0.20	0.20 U
1,2,3-Trichloropropane	ug/L	0.30	0.30 U
Isopropylbenzene	ug/L	0.14	0.14 U
Bromobenzene	ug/L	0.24	0.24 U
n-propylbenzene	ug/L	0.63	0.63 U
2-Chlorotoluene	ug/L	0.15	0.15 U
4-Chlorotoluene	ug/L	0.17	0.17 U
1,3,5-Trimethylbenzene	ug/L	0.15	0.15 U
tert-butylbenzene	ug/L	0.19	0.19 U

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QUALITY CONTROL DATA

Workorder: J1701930 1101 St. Johns Ave

METHOD BLANK: 2283156

Parameter	Units	Blank Result	Reporting Limit Qualifiers
1,2,4-Trimethylbenzene	ug/L	0.18	0.18 U
sec-butylbenzene	ug/L	0.15	0.15 U
1,3-Dichlorobenzene	ug/L	0.19	0.19 U
1,4-Dichlorobenzene	ug/L	0.22	0.22 U
1,2-Dichlorobenzene	ug/L	0.18	0.18 U
p-Isopropyltoluene	ug/L	0.15	0.15 U
n-Butylbenzene	ug/L	0.17	0.17 U
1,2-Dibromo-3-Chloropropane	ug/L	0.11	0.11 U
1,2,4-Trichlorobenzene	ug/L	0.35	0.35 U
Naphthalene	ug/L	0.27	0.27 U
Hexachlorobutadiene	ug/L	0.63	0.63 U
1,2,3-Trichlorobenzene	ug/L	0.54	0.54 U
Xylene (Total)	ug/L	0.53	0.53 U
1,2-Dichloroethane-d4 (S)	%	99	70-128
Toluene-d8 (S)	%	98	77-119
Bromofluorobenzene (S)	%	98	86-123

LABORATORY CONTROL SAMPLE & LCSD: 2283157 2283158

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD Qualifiers
VOLATILES									
Vinyl Chloride	ug/L	20	21	19	103	97	70-130	6	30
1,1-Dichloroethylene	ug/L	20	21	20	104	99	70-130	4	30
Methyl tert-butyl Ether (MTBE)	ug/L	20	17	17	86	83	70-130	4	30
cis-1,2-Dichloroethylene	ug/L	20	20	19	99	97	70-130	3	30
Chloroform	ug/L	20	19	19	97	95	70-130	3	30
Benzene	ug/L	20	20	20	99	98	70-130	0	30
Trichloroethene	ug/L	20	19	19	96	94	70-130	2	30
Toluene	ug/L	20	18	18	89	88	70-130	2	30
Tetrachloroethylene (PCE)	ug/L	20	18	17	88	87	70-130	1	30
Chlorobenzene	ug/L	20	18	17	88	85	70-130	3	30
Ethylbenzene	ug/L	20	18	18	89	89	70-130	1	30
1,2,4-Trimethylbenzene	ug/L	20	17	16	87	82	70-130	6	30
1,3-Dichlorobenzene	ug/L	20	18	18	90	90	70-130	0	30
1,2-Dichlorobenzene	ug/L	20	18	18	90	92	70-130	1	30
Xylene (Total)	ug/L	60	54	53	90	88	70-130	2	30
1,2-Dichloroethane-d4 (S)	%				106	108	70-128	2	
Toluene-d8 (S)	%				99	98	77-119	1	
Bromofluorobenzene (S)	%				97	104	86-123	6	

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QUALITY CONTROL DATA

Workorder: J1701930 1101 St. Johns Ave

MATRIX SPIKE SAMPLE: 2283159

Original: J1701929001

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
VOLATILES							
Vinyl Chloride	ug/L	0	20	21	104	70-130	
1,1-Dichloroethylene	ug/L	0	20	21	104	70-130	
Methyl tert-butyl Ether (MTBE)	ug/L	0	20	18	88	70-130	
cis-1,2-Dichloroethylene	ug/L	0	20	21	104	70-130	
Chloroform	ug/L	0	20	20	101	70-130	
Benzene	ug/L	0	20	21	104	70-130	
Trichloroethene	ug/L	0	20	20	98	70-130	
Toluene	ug/L	0	20	20	101	70-130	
Tetrachloroethylene (PCE)	ug/L	0	20	19	95	70-130	
Chlorobenzene	ug/L	0	20	20	98	70-130	
Ethylbenzene	ug/L	0	20	21	103	70-130	
1,2,4-Trimethylbenzene	ug/L	0	20	19	97	70-130	
1,3-Dichlorobenzene	ug/L	0	20	21	106	70-130	
1,2-Dichlorobenzene	ug/L	0	20	22	108	70-130	
Xylene (Total)	ug/L	0	60	62	103	70-130	
1,2-Dichloroethane-d4 (S)	%	97			99	70-128	
Toluene-d8 (S)	%	99			97	77-119	
Bromofluorobenzene (S)	%	99			102	86-123	

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: J1701930 1101 St. Johns Ave

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
J1701930001	SJ-MW-1	SW-846 3510C	EXTj/3182	SW-846 8270D (SIM)	MSSj/1909
J1701930003	SJ-MW-1D	SW-846 3510C	EXTj/3182	SW-846 8270D (SIM)	MSSj/1909
J1701930004	SJ-MW-2	SW-846 3510C	EXTj/3182	SW-846 8270D (SIM)	MSSj/1909
J1701930006	SJ-MW-3	SW-846 3510C	EXTj/3182	SW-846 8270D (SIM)	MSSj/1909
J1701930007	SJ-MW-4	SW-846 3510C	EXTj/3182	SW-846 8270D (SIM)	MSSj/1909
J1701930001	SJ-MW-1	SW-846 3010A	DGMj/2593	SW-846 6010	ICPj/1809
J1701930003	SJ-MW-1D	SW-846 3010A	DGMj/2593	SW-846 6010	ICPj/1809
J1701930004	SJ-MW-2	SW-846 3010A	DGMj/2593	SW-846 6010	ICPj/1809
J1701930005	SJ-MW-2D	SW-846 3010A	DGMj/2593	SW-846 6010	ICPj/1809
J1701930006	SJ-MW-3	SW-846 3010A	DGMj/2593	SW-846 6010	ICPj/1809
J1701930007	SJ-MW-4	SW-846 3010A	DGMj/2593	SW-846 6010	ICPj/1809
J1701930001	SJ-MW-1	SW-846 7470A	DGMj/2595	SW-846 7470A	CVAj/1346
J1701930003	SJ-MW-1D	SW-846 7470A	DGMj/2595	SW-846 7470A	CVAj/1346
J1701930004	SJ-MW-2	SW-846 7470A	DGMj/2595	SW-846 7470A	CVAj/1346
J1701930005	SJ-MW-2D	SW-846 7470A	DGMj/2595	SW-846 7470A	CVAj/1346
J1701930006	SJ-MW-3	SW-846 7470A	DGMj/2595	SW-846 7470A	CVAj/1346
J1701930007	SJ-MW-4	SW-846 7470A	DGMj/2595	SW-846 7470A	CVAj/1346
J1701930001	SJ-MW-1	SW-846 5030B	MSVj/3348	SW-846 8260C	MSVj/3349
J1701930002	SJ-MW-1D	SW-846 5030B	MSVj/3348	SW-846 8260C	MSVj/3349
J1701930003	SJ-MW-1D	SW-846 5030B	MSVj/3348	SW-846 8260C	MSVj/3349
J1701930004	SJ-MW-2	SW-846 5030B	MSVj/3348	SW-846 8260C	MSVj/3349
J1701930006	SJ-MW-3	SW-846 5030B	MSVj/3348	SW-846 8260C	MSVj/3349
J1701930007	SJ-MW-4	SW-846 5030B	MSVj/3348	SW-846 8260C	MSVj/3349
J1701930008	Trip Blank	SW-846 5030B	MSVj/3348	SW-846 8260C	MSVj/3349

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☒ **Jacksonville:** 6681 Southpoint Pkwy. • Jacksonville, FL 32216 • 904.363.9350 • Fax 904.363.9354

☐ **Tallahassee:** 2639 North Monroe St., Suite D, Tallahassee, FL 32303 • 850.219.6274 • Fax 850.219.6275

J1701930

2349 • Fax 352.395.6639
3 • Fax 954.889.2281
• Fax 813.630.4327

Received on Ice ☒ Yes ☐ No ☐ Temp taken from sample ☐ Temp from blank ☐ Where required, pH checked Temp. when received (observed) 4 °C Temp. when received (corrected) 4 °C
DCN: AD-051 Form last revised 11/17/16 Device used for measuring Temp by unique identifier (circle IR temp gun used) (J: 9A) G: LT-1 LT-2 T: 10A A: 3A M: 3A S: 1V

	Relinquished by:	Date	Time	Received by:	Date	Time
1	Egin Dean	2/22/17	9 am	[Signature]	2/22/17	11:22
2	[Signature]	2/22/17	1220	[Signature]	2-22-17	1220
3						
4						

FOR DRINKING WATER USE:	
(When PWS Information not otherwise supplied)	PWS ID: _____
Contact Person: _____	Phone: _____
Supplier of Water: _____	
Site Address: _____	



Client: Ayres
 Date/Time Rcvd: 2-22-17 1220
 Received by: By

Project name: 1101 St. Johns Ave.
 Log-In request number: JH01930
 Completed by: By

Cooler/Shipping Information:

Courier: ☒ AEL ☐ Client ☐ UPS ☐ Blue Streak ☐ FedEx ☐ AES ☐ ASAP ☐ Other (describe): _____

Type: ☐ Cooler ☐ Box ☐ Other (describe): _____

Cooler temperature: Identify the cooler and document the temperature blank or ice water measurement

Cooler ID	4				
Temp (°C)	4				
Temp taken from	☒ Sample Bottle ☒ Cooler	☐ Sample Bottle ☐ Cooler	☐ Sample Bottle ☐ Cooler	☐ Sample Bottle ☐ Cooler	☐ Sample Bottle ☐ Cooler
Temp measured with	☒ IR gun S/N 9333779 ☐ Thermometer (enter ID):	☐ IR gun S/N 9333779 ☐ Thermometer (enter ID):	☐ IR gun S/N 9333779 ☐ Thermometer (enter ID):	☐ IR gun S/N 9333779 ☐ Thermometer (enter ID):	☐ IR gun S/N 9333779 ☐ Thermometer (enter ID):

Other Information:

Any discrepancies should be explained in the "Comments" section below.

CHECKLIST	YES	NO	NA
1. Were custody seals on shipping container(s) intact?			
2. Were custody papers properly included with samples?			
3. Were custody papers properly filled out (ink, signed, match labels)?			
4. Did all bottles arrive in good condition (unbroken)?			
5. Were all bottle labels complete (sample #, date, signed, analysis, preservatives)?			
6. Did the sample labels agree with the chain of custody?			
7. Were correct bottles used for the tests indicated?			
8. Were proper sample preservation techniques indicated on the label?			
9. Were samples received within holding times?			
10. Were all VOA vials free of the presence of air bubbles?			
11. Have all Soil VOA Vials and Encores been placed in a freezer within 48 hours of collection?			
12. Were samples in direct contact with wet ice? If "No," check one: ☐ NO ICE ☐ BLUE ICE			
13. Was the cooler temperature less than 6°C?			
14. Where pH preservation is required, are sample pHs checked and any anomalies recorded by Sample control? Are all <2 or >10? Note: VOA samples are checked by laboratory analysts.			
15. Was sufficient sample volume provided to perform all tests?			
16. If for Bacteriological testing, were containers supplied by AEL? (See QA officer if answer is no)			
17. Were all sample containers provided by AEL? (Other than Bacteriological)			
18. Were samples accepted into the laboratory?			
19. When necessary to split samples into other bottles, is it noted in the comments?			

Comments: (Note all sample(s) and container (s)" with a "No" checklist response in this comment section)