

*Prepared for:*

**PRECISION MACHINE OF SAVANNAH, INC.**

6 Telfair Place  
Savannah, GA 31415

**VOLUNTARY INVESTIGATION  
AND REMEDIATION PLAN  
Precision Machine of Savannah,  
Inc.  
Savannah, Georgia**

*Prepared by:*



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

April 2016

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REMEDICATION PLAN**  
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A handwritten signature in blue ink, appearing to read "Kirk Kessler", is written over a horizontal line.

Kirk J. Kessler  
Principal

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# 1 INTRODUCTION

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## 1.1 Background

This Voluntary Investigation and Remediation Plan (“VIRP”) is being submitted on behalf of the applicant Precision Machine of Savannah, Inc. (“PMS”), and an additional Qualifying Property Precision Protective Coatings Inc. (“PPC”) adjoining PMS. The PMS property is located at 6 Telfair Place, Savannah, Georgia and the PPC property is located at 8 Telfair Place, Savannah, Georgia. Collectively, both properties are referred to herein as the “Site”. Figure 1 shows the general location of the Site. The purpose of this document is to support an application for enrollment into the Voluntary Remediation Program (“VRP”) by presenting a current understanding of conditions at the Site, based on existing environmental data and a preliminary Conceptual Site Model (“CSM”), and potential remedial options. A completed VRP Application Form and Checklist is included in Appendix A. Tax map and information for the properties are included in Appendix B.

## 1.2 Site Setting

### 1.2.1 Site Location and Features

The Site is comprised of two adjacent land parcels totaling 5.47 acres in Chatham County, Georgia. The PMS property (Land Parcel ID 6-0737-01-009) consists of one 32,000 square feet (“sq-ft”) metal building constructed on concrete slab with a total land area of 3.41 acres. The PPC property (Land Parcel ID 6-0737-01-010) consists of one 15,000 sq-ft metal building constructed on concrete slab with a total land area of 2.06 acres. Supporting structures include an administrative trailer and a metal storage and product testing building. The surrounding area of the properties is industrial and commercial with scattered vacant grass and woodland parcels, and small ponds. Figure 2 shows the Site land parcel boundaries.

The Site encompasses the two properties owned by the Companies and a drainage ditch receiving runoff from the general area of the industrial park. The Site has two separate gravel parking lots, one located adjacent to the buildings, the other located across (south of) Telfair Place. Drainage structures on the Site include one retention pond at the north end of PPC draining to Outfall 001, and two retention ponds at the north end of the PMS parcel which drain to Outfall 002, with both outfalls discharging to a ditch adjacent to the Site. Site features, including general direction of overland water flow, are shown on Figure 3.

## 1.2.2 Local Area Setting

Figure 4 shows the Site in the context of the local area setting. The immediate surrounding land use is primarily light industrial with the adjacent property to the north and east (owned by the companies) serving as a parking area and access road. Land use to the west and south is generally improved with light industrial and commercial structures. Land use to the east of the Site comprises of a narrow band of scrub grassland with some level of tree cover, but quickly transitions to light industrial operations. Downtown Savannah is approximately 3 miles east of the Site.

## 1.3 Release Notification, Spill Response and Remediation

### 1.3.1 Release Notification

On September 16 and 18, 2014 the Georgia Environmental Protection Division (“EPD”) observed a release of WS 8800 Coolant originating from chip bins containing metals shavings from the fabricating process. The bins were located on concrete paved areas between the PPC and PMS buildings. The release was attributed to a faulty drain valve on the aluminum chip bin and faulty seals on other bins.

The WS 8800 Coolant is water-based and is not a RCRA Subtitle C regulated hazardous waste. The hazardous ingredients in the coolant are volatile organic compounds (“VOCs”) which comprise less than 13% of product and are not regulated substances in Georgia (ref: Rule 391-3-19-.04(3)(b) *Appendix I, Regulated Substances and Soil Concentrations That Trigger Notification*).

The spill area was documented in a photographic log provided by John Kalp of the Georgia EPD’s Brunswick district office. The spilled material flowed north from the bin storage area across grass-covered ground to the facility stormwater Outfall 001 (Figure 5). The EPD inspector noted a sheen in the water of the adjacent ditch at the outfall location. The spill area was estimated at 400 to 500 sq-ft.

### 1.3.2 Spill Response

As stated, spilled material was observed by the EPD during an inspection on September 16 and 18, 2014. Subsequent to EPD’s second inspection, the chip bins were repaired, and absorbent booms were placed along the sides of the spill and on both sides of the fence at Outfall 001.

### 1.3.3 Soil Remediation

Soil remediation was conducted the week of September 22, 2014, in the spill area. Excavation was performed by JN Thompson Construction. The spill area was over-excavated based on visual

observations, to a depth of approximately 1 to 2 feet below ground surface (“ft-bgs”). The excavation area is shown on Figure 5.

Whitaker Laboratory, Inc. collected ten samples of the excavated soil which were composited and analyzed via EPA Method SW1311 Toxicity Characteristic and Leaching Procedure (“TCLP”) for disposal characterization. The soil was non-hazardous. On September 22, 2014, 60.53 tons of excavated soil were transported by Atlantic Waste Services for disposal at the Waste Management Superior Landfill located at 3001 Little Neck Road in Savannah, Georgia. The excavated area was then backfilled with clean soil, graded, and sodded.

## 1.4 Release Notification

## 1.5 Property Eligibility

The Site meets the eligibility criteria for the VRP. The Site is not listed on the National Priorities List, is not currently undergoing response activities required by an order of the Regional Administrator of the United States Environmental Protection Agency (EPA), and is not required to have a permit under Code Section 12-8-66. Qualifying the Site under this VRP would not violate the terms and conditions under which the division operates and administers remedial programs by delegation or by similar authorization from the EPA. There are no, and never have been any, outstanding liens filed against the Companies pursuant to Code Sections 12-8-96 and 12-13-12.

## 1.6 Participant Eligibility

PMS and PPC are the owners of the properties and PMS is the VRP applicant. Furthermore, neither PMS or PPC are in violation of any order, judgment, statute, rule, or regulation subject to the enforcement authority of the Director of the EPD.

## 1.7 Document Organization

This document is organized into three sections, following this introduction:

- Section 2.0 presents an overview of the Site including the Site setting, a summary of prior Site investigations and constituents detected at the Site;
- Section 3.0 presents the preliminary CSM;
- Section 4.0 presents the Preliminary Remediation Plan for the Site;
- Section 5.0 presents a project schedule; and

- Section 6.0 presents cited references.



## 2 SITE OVERVIEW

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### 2.1 Summary of Prior Site Assessment

#### 2.1.1 Overview

Three separate assessment events have been completed for the Site following characterization of the coolant release observed in September 2014, each with prior review and approval of a work plan prepared by EPS (EPS, 2015a) and reviewed by the EPD with respect to testing locations and chemical parameters. The first event was a multi-media assessment (*i.e.* soil/sediment, surface water and groundwater) with testing for a broad array of constitutes classes including metals, VOCs, semi-volatile organic compounds (“SVOCs”) and polycyclic aromatic hydrocarbons (“PAHs”). The constituent list was refined with each assessment phase, to where hexavalent chromium (“Cr(VI)”) was the only parameter of interest for the third assessment event.

#### 2.1.2 June 2015 Initial Assessment

The first assessment event was conducted by EPS on June 8-10, 2015 and consisted of the collection and laboratory analysis of groundwater, soil, surface water, and sediment samples in accordance with an approved work plan. Samples were analyzed for RCRA metals, nickel, zinc, mercury, phosphorous<sup>1</sup>, VOCs, SVOCs, and Cr(VI).

Five groundwater monitoring wells (MW-1 to MW-5) were installed in the vicinity of the coolant spill that was observed by EPD in September 2014. A sixth groundwater monitoring well (MW-6) was installed in the parking lot located south of Telfair Place as a background well. Table 1 provides well completion details.

Twelve soil samples (SB-1 to SB-12) were collected at a depth of 2 ft-bgs as described below:

- four samples from various locations described by EPD as coolant pooling areas;
- three samples from areas adjacent to a construction excavation area north of PPC;
- two samples from a the ditch located adjacent and west of the PMS building and adjacent and north of the fenced area;
- two samples from the middle of the concrete pad, inside of the fenced-in area adjacent and west of the PMS building; and

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<sup>1</sup> Phosphorous was included in the testing program following the submittal of the work plan, as EPS subsequently obtained a prior testing report prepared by another consultant which included test results for phosphorous and for sake of completeness this parameter as added to the testing program.

- one sample from the background location south of the PMS building.

Three paired surface water (SW-1 to SW-3) and sediment samples (SD-1 to SD-3) were collected down-stream of Outfall 001, at distance intervals of 10 ft, 100 ft, and 200 ft. Surface water samples were collected by dipping the sample container into the surface water while ensuring that sediment was not disturbed and turbid conditions were not created. Sediment samples were collected using stainless steel scoops/spoons. One spoon will was used for each sample to minimize the potential for cross-contamination. Each scoop/spoon was cleaned prior to, and after sampling. A fourth paired sample (SD-4 and SW-4) was collected from upstream (*i.e.* to the west) of Outfall 001, downstream from several other industrial complexes.

### 2.1.3 August 2015 Assessment

The sampling event was conducted by EPS on August 17-19, 2015 and consisted of the collection and laboratory analysis of groundwater, soil, and sediment samples in accordance with an addendum to the first work plan (EPS, 2015b). The purpose of the sampling was to collect additional background data and to further characterize the condition on the Site. Five soil background locations (two of which were also groundwater) were sampled along with eight soil locations on the Site (five of which were also groundwater). In the off-Site drainage ditch, five locations were sampled for sediment. All samples were analyzed for VOCs and Cr(VI), as these were constituents determined by the EPD to be of continued interest from the initial assessment in June.

Five groundwater monitoring wells (MW-7 through MW-11) were installed on the Site, co-located with soil samples. Two groundwater monitoring wells (MW-12 and MW-13, also co-located with soil samples) were installed in the parking lot located south of Telfair Place as background wells. Table 1 provides well completion details and the depth to groundwater and groundwater elevation measurements for the August event.

Thirteen soil samples (SB-13 through SB-25) were collected across the Site at a depth of 2 ft-bgs.

Five sediment samples were collected in the ditch adjacent to the Site. Two samples (SD-5 and SD-6) were collected downstream of Outfall 001 and previous sediment sample location SD-1. Three samples (SD-7, SD-8, and SD-9) were collected from upstream (*i.e.* to the west) of Outfall 001 and previous sample location SD-4, to assess general background conditions upstream of Outfall 001.

A stream gauge was installed in the ditch on August 19, 2015 to later monitor tidal influence on the Site and to evaluate surface water – groundwater interaction. The staff gauge was installed north of Outfall 001 near monitoring well MW-7, and a datum elevation was surveyed to the top of the staff gauge to allow conversion of water level readings to elevation. Monitoring was performed during the subsequent October 2015 assessment.

#### 2.1.4 October 2015 Assessment

This delineation sampling event was conducted by EPS on October 26-27, 2015 in accordance with recommendations in the status report, and approved by EPD (EPS, 2015c). The purpose of the sampling was to further assess Cr(VI).

Three groundwater monitoring wells (MW-14, MW-15 and MW-16) were installed on the Site. Two of the wells were co-located with soil samples. Table 1 provides well completion details and depth to groundwater information and groundwater elevation readings for the October event.

Ten soil borings (SB-26 through SB-35) were predominantly located near the property boundary and samples were collected from each boring at a depth of 2 ft-bgs.

Five sediment samples (SD-10 to SD-14) were collected in the adjacent ditch, all north of the Outfall and downstream of location SD-5. The sample locations were spaced approximately 200 ft apart.

Water level measurements were taken during the course of the day on October 26, 2015 at a staff gauge installed within the ditch (near the Outfall), and a nearby monitoring well MW-7. Results of the tidal gauging study are discussed in Section 3.

# 3 PRELIMINARY CONCEPTUAL SITE MODEL (CSM)

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## 3.1 Overview

The CSM is intended to establish a common knowledge base about the Site and its environmental condition, to facilitate the development of remedial action objectives, and to allow an informed decision regarding remedial action measures if necessary. The discussion of the CSM below includes the following: (i) the surface and subsurface features at the Site, (ii) development of Risk Reduction Standards (“RRS”) for detected regulated substances, (iii) nature and extent of the environmental condition, (iv) potential receptors and exposure pathways; and (v) data gaps.

## 3.2 Regional Setting

The Site is located in Chatham County, which falls in the Lower Coastal Plain of the Coastal Plain Physiographic Province in Georgia. The Lower Coastal Plain is characterized by poorly consolidated surface sediments, primarily sands and clays, with Site soils classified as loamy sand to fine sand. Vast stretches of the Lower Coastal Plane, including the Site, are relatively flat with a surface elevation within a few feet of above mean sea level (“amsl”). The Site is approximately 2.5 miles southwest of the Savannah River.

## 3.3 Site Setting

### 3.3.1 Geology

Chatham County, Georgia is underlain by sedimentary deposits of the Coastal Plain physiographic province. The geology of the Site is characterized by consolidated to unconsolidated layers of sand and clay and semi-consolidated to very dense layers of limestone and dolomite (Clarke et al., 1990). At Skidaway Island in Chatham County, the surficial aquifer system consists of an upper unconfined sand zone, an intermediate clay semi-confining layer, and an underlying semi-confined sand zone (Clark et al., 1990). At Hunter Army Airfield also in Chatham County, the surficial aquifer system consists of fine sand to depths of up to 100 ft (G. J. Gonthier, 2012).

Continuous soil cores were available from the direct-push drilling method used in the monitoring well installation. The boring logs (Appendix C) indicate that generally the surficial deposits at the Site are comprised of unconsolidated sand and clay

### 3.3.2 Site Hydrogeology

The groundwater table elevation was measured in each of the three assessment events. The August 2015 event was the most comprehensive set of measurements, involving wells MW-1 through MW-13 (the subsequent October 2015 event was limited to measurements from new wells MW-14 through MW-16). Figure 6 posts the groundwater elevation measurements for each of the monitoring wells, indicating a general hydraulic gradient from southwest to north/northeast with approximately 1 ft of elevation drop in the water table from west to east (with a gradient of approximately 0.0025 ft per ft).

### 3.3.3 Tidal Influence and Groundwater-Surface Water Interaction

Water level measurements were taken during the course of the day on October 26, 2015 at a staff gauge installed within the ditch (near the Outfall), and a nearby monitoring well MW-7 (Figure 8). Table 2 is a compilation of the measurements, also showing the tidal range graphs for two nearby tidal monitoring stations in the Savannah area. The tidal amplitude over the duration of the measurements (from 10:30 to 15:45) was approximately 7 ft amsl to 0 ft amsl. During that time there was no change in the surface water elevation in the ditch (surface water at an elevation of 10.48 ft amsl). Groundwater elevation varied somewhat from 8.87 ft amsl initially (high tide) to 8.90 ft amsl later during low tide (deviation of 0.03 ft). Although it is typical to have a time lag between tidal change and groundwater elevation, this slight amount of deviation in the groundwater elevation could very well be simply a result of barometric pressure change.

## 3.4 Development of Risk Reduction Standards

### 3.4.1 Overview

Types 1 through 4 RRS for soil and groundwater have been developed for the Site. The RRS levels were developed consistent with the following references:

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

Appendix D provides print outs of all the worksheet files used to calculate the RRS. The worksheets contain physical and chemical properties for the various chemicals as well as toxicity criteria and exposure assumptions. Example calculations are also provided.

### 3.4.2 Selection of Constituents of Potential Concern

The constituents of interest (“COI”) used in the derivation of RRS included all constituents detected in soils or groundwater that are regulated in Appendix I, Regulated Substances and Soil Concentrations of the Hazardous Site Response Rules (“Rules”). Table 1, Appendix D shows the constituents detected in soil or groundwater and HSRA look-up values for the constituents that are used in the RRS calculations.

### 3.4.3 Receptors and Pathways of Interest

Per HSRA Rules, the Type 1 – 4 RRSs determination includes the following cases:

- Type 1:
  - Adult residential receptor having direct contact with soil (incidental soil ingestion, inhalation of volatiles and/or fugitive dust); and
  - Leaching from soil to groundwater based on default values.
- Type 2:
  - Adult or child residential receptor having direct contact with soil (incidental soil ingestion, inhalation of volatiles and/or fugitive dust) or groundwater (incidental ingestion and inhalation of volatiles); and
  - Leaching from soil to groundwater using risk-based groundwater values for residents.
- Type 3:
  - Industrial Worker having direct contact with soil (incidental soil ingestion, inhalation of volatiles and/or fugitive dust); and
  - Leaching from soil to groundwater based on default values.
- Type 4:
  - Industrial Worker having direct contact with soil (incidental soil ingestion, inhalation of volatiles and/or fugitive dust) or groundwater (incidental ingestion and inhalation of volatiles); and
  - Leaching from soil to groundwater using risk-based groundwater values for industrial workers.

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

### 3.4.4 Sources of Toxicity Values and Physical/Chemical Factors

Table 2, Appendix D shows the physical-chemical parameters used in the calculations and Table 3, Appendix D shows the toxicity values used. EPD endorses the use of EPA's Regional Screening Level ("RSL") table as sources of both toxicity criteria and physical-chemical factors. The most recent publication (November 2015) was used in the calculations.

### 3.4.5 Risk and Hazard Calculations

Lead in soil is handled differently than other constituents. Calculations for lead in children and adults are shown in Table 4, Appendix D and Table 5, Appendix D per the HSRA Rules.

Table 6, Appendix D and 7, Appendix D show the risk and hazard calculations for exposure to groundwater. Table 8, Appendix D and Table 9, Appendix D show the risk and hazard calculations for exposure to soil. The equations used were obtained from EPA's RAGS document (EPA, 1991), per the HSRA Rules. The equations are shown on each table and below the equations are the exposure factors relating to the adult resident, child resident and industrial worker scenarios. The exposure factors are either from the HSRA Rules or HSRA Guidance.

### 3.4.6 RRS Calculations

The Residential RRS (Type 1 and 2) calculations for groundwater are shown in Table 10, Appendix D. The Non-Residential RRS (Type 3 and 4) calculations for groundwater are shown in Table 11, Appendix D.

In order to determine the soil RRS, it is first necessary to calculate the protection of groundwater soil screening levels ("SSLs"). The equations presented in the Supplemental Soil Screening Guidance [EPA, 1996, 2002] were utilized to calculate generic, conservative soil screening levels protective of the groundwater for both residents and industrial workers. SSL values were calculated using a default dilution-attenuation factor ("DAF") of 20. SSL calculations are shown in Table 12, Appendix D. The Residential and Non-Residential RRS calculations for soil are presented in Table 13, Appendix D and Table 14, Appendix D, respectively.

A summary of all of the RRSs is shown in Table 15, Appendix D.

## 3.5 Environmental Site Conditions

### 3.5.1 Overview

This section provides a summary of analytical data gathered through the three assessment events conducted to date. The laboratory reports are provided in Appendix E.

### 3.5.2 Soil

Soil samples were collected from the upper 2ft at a total of 29 locations on the Site and at six background locations. Sample locations are shown on Figure 7 and a summary of detected constituents in soil is provided in Table 3.

Five organics (2-butanone, 2-hexanone, 4-methyl-2-pentanone, acetone, and toluene) were detected in a limited number of the soil samples on the Site. Acetone was the only organic detected in the background wells. The organic detections occur in a cluster of sample locations immediately west of the PMS building. There is not a downgradient spread of VOC detections in the drainage path from the release area to Outfall 001.

Five metals (Barium, Chromium, Lead, Nickel and Zinc) were detected in soil samples on the Site, with chromium assessed for both total Cr and Cr(VI). Low levels of Cr(VI) were detected in the soils across the Site, and in the background soil, with no discernable spatial pattern in the Cr(VI) concentration and no concentrations exceeding the RRS.

### 3.5.3 Groundwater

Groundwater samples were collected from monitoring wells installed in the shallow aquifer at 13 locations on the Site and at three background locations (Figure 8). Wells were paired with soil borings as follows:

- MW-1 at soil boring SB-1;
- MW-2 at soil boring SB-5;
- MW-3 at soil boring SB-6;
- MW-4 at soil boring SB-7;
- MW-5 at soil boring SB-8;
- MW-6 at soil boring SB-12 (background location);
- MW-7 at soil boring SB-13;
- MW-8 at soil boring SB-14;
- MW-9 at soil boring SB-18;
- MW-10 at soil boring SB-19;



- MW-12 at soil boring SB-23 (background location);
- MW-13 at soil boring SB-25 (background location);
- MW-14 at soil boring SB-27;
- MW-15 at soil boring SB-26; and
- MW-16 at soil boring SB-28.

A summary of detected constituents<sup>2</sup> in groundwater is provided in Table 4. No organics were detected in the monitoring wells on the Site; although bis(2-ethylhexyl)phthalate was detected in one of the background wells below the Residential RRS. Cr(VI) was detected in two of the three background wells and three of the 13 wells on the Site, all at concentrations below the Residential RRS.

### 3.5.4 Surface Water and Sediment

Soil/sediment<sup>3</sup> samples were collected in the ditch adjacent to the Site at ten locations downstream of the Outfall 001, and four sediment samples were collected upstream of Outfall 1 (Figure 7). Three of the downstream and one of the upstream locations were also sampled for surface water (Figure 8). A summary of detected constituents in sediment and surface water is provided in Table 3 and Table 5, respectively.

No organics were detected in surface water and the metal results were all below the Georgia In-Stream Water Quality Standard (“ISWQS”). Acetone, a common laboratory contaminant, was detected at low concentrations in the majority of the soil/sediment sample locations below the Residential RRS. Overall, other organics were generally not detected in the soil/sediment samples, except at location SD-3 (at the Outfall) where some organics were detected. However, all of the organics detections were below the Residential RRS.

Cr(VI) was detected in all of the surface water samples, but at concentrations well below the ISWQS. For example, the highest detection was 0.458 µg/L in a sample (SW-4) upstream of the Outfall and the chronic ISWQS is 11 µg/L. Cr(VI) was detected in ten of the fourteen sediment locations all below the Residential RRS. The non-detects are in the western-most segment of the ditch upstream of the Outfall.

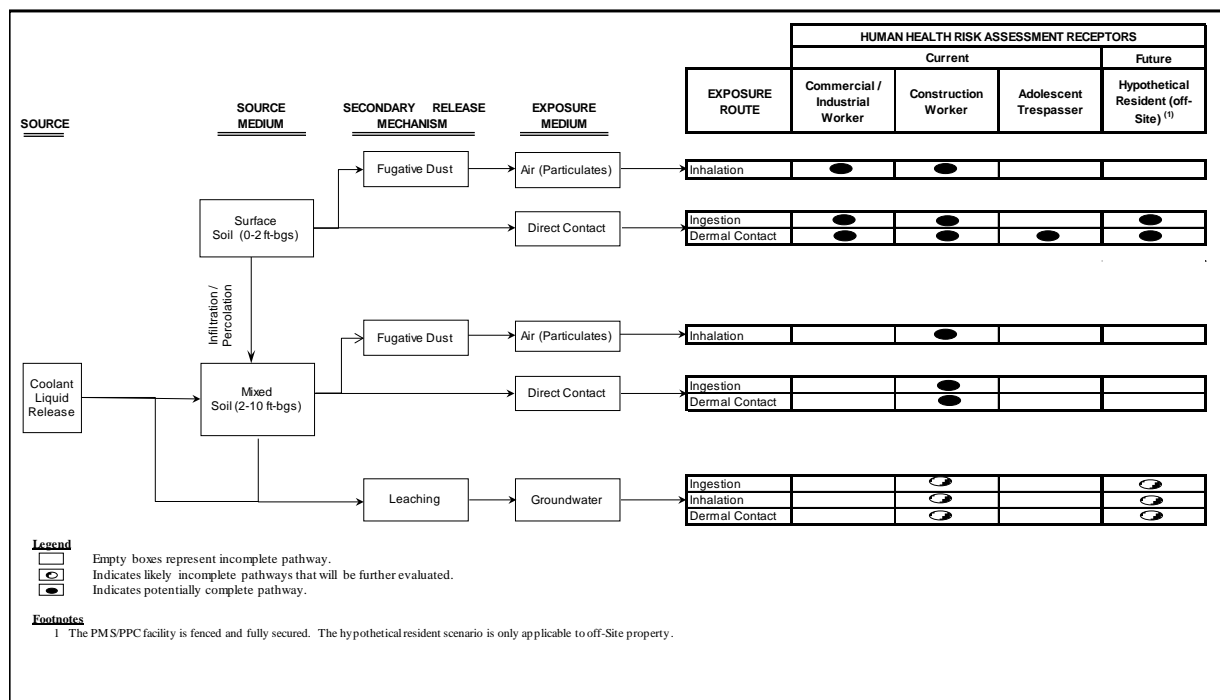
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<sup>2</sup> During the June 2015 event, the groundwater was analyzed for Cr(VI); however, this data is not shown on Table 4 as the data was disqualified as the samples were not filtered. Accordingly, all the wells were sampled for Cr(VI) in the August 2015 event.

<sup>3</sup> The ditch contains very little to no water, thus samples are identified herein as “soil/sediment”.

### 3.6 Potential Receptors and Exposure Pathways

On-Site receptors (current and potential future) include Site Workers, Trespassers, and Construction Workers. Media of potential exposure include soil (dermal exposure, ingestion, and inhalation) and groundwater (dermal exposure, ingestion). Below is a CSM of Site exposure pathways and receptors.



The Site is located in a commercial/industrial area within an industrial park. Intended future land use for the property is for commercial/industrial use. Under this intended land use, there are two types of non-residential receptor exposure scenarios: Commercial/Industrial Workers (Industrial Worker scenario) and Excavation/Construction Workers (Construction Worker scenario). The current and/or potential future human receptors to the soil condition are listed below along with a discussion of the rationale behind their identification and the pathways through which they could potentially be exposed.

- **Current/Future Industrial Site Worker:** The companies intend to operate in its current capacity for the foreseeable future. Receptors associated with this type of land use can potentially have long-term exposure to Site-related chemicals in surface soil via ingestion, dermal contact, and inhalation of volatiles.
- **Current/Future Construction Worker:** Construction workers could potentially have short-term (<1 year) exposure to chemicals in soil via ingestion, dermal contact, and inhalation of volatiles and particulates.

- Current/Future Trespasser: The PMS and PPC facilities are fenced and secured. Thus, the potential trespasser scenario is limited to exposure to the off-Site ditch soil/sediment.

### 3.7 Summary Existing Data Gaps

To date, a comprehensive groundwater assessment event for water levels has not been performed for all monitoring wells. PMS intends to perform testing to verify the groundwater flow direction and velocity by gauging the groundwater wells. Following these measurements, PMS will create a potentiometric surface map to depict the groundwater flow direction and gradient. PMS will also perform slug testing of two wells located on the Site in order to estimate the aquifer hydraulic conductivity. The hydraulic conductivity will be used in conjunction with the updated potentiometric surface map to estimate groundwater velocity.

## 4 PRELIMINARY REMEDIATION PLAN

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### 4.1 Overview

Preliminary evaluations of potential remedial options for soil, sediment and groundwater are provided in this section. The requirement and extent of remedial action has not been determined for the Site. Thus we are only providing a summary of potential alternatives at this time. A final remediation plan will be completed at a future date once additional data is developed allowing for a more robust evaluation of remedial alternatives.

### 4.2 Evaluation of Remedial Options for Soil & Sediment

#### 4.2.1 Screening of Remedial Options

As provided in Section 3, metals and VOCs are identified for the on-Site soil and off-Site sediment with Cr(VI) recognized as the constituent of highest detection frequency and potentially actionable concentration. Cr(VI) is the only constituent carried through the Site assessment phases as mandated by the EPD. Based on this Site-specific condition, the following are potential remedial options for the soil and sediment:

1. no further action; or
2. excavation and disposal

#### 4.2.2 Description of Remedial Options

##### 4.2.2.1 No Action/Natural Attenuation

A no further action remedy may be implemented in the event risk from existing conditions are deemed acceptable to applicable exposure pathway scenarios.

##### 4.2.2.2 Excavation and Disposal

Due to shallow nature of unsaturated soil at the Site, excavation with off-site disposal of material may be a preferred remedial action altered should soil remediation be required. The nature of the condition would support a non-hazardous disposal option.

## 4.3 Evaluation of Potential Remedial Options for Groundwater

### 4.3.1 Screening of Remedial Options

Given the limited number of detected chemical groups and low constituent concentrations, remedial options for groundwater include traditional and relatively simplistic approaches such as:

1. no further action;
2. monitoring natural attenuation (“MNA”); or
3. air sparge/soil vapor extraction.

### 4.3.2 Description of Remedial Options

#### 4.3.2.1 No Further Action

A no further action approach may be acceptable given the current state of the groundwater condition.

#### 4.3.2.2 MNA (Organics & Metals)

An MNA approach may also be a viable option for the trace detections of organics and metals present in the groundwater at the Site.

Data gaps that must be addressed under an MNA approach, should this approach be deemed applicable and necessary, include:

1. Obtaining additional data on indicator geochemical parameters in support of a more formal evaluation for the feasibility of MNA (according to an EPA scoring matrix);
2. Establishing the appropriate Point of Exposure (“POE”);
3. Performing additional groundwater monitoring over time to assess degradation or chemical transformation rates and data trends; and
4. Completing a groundwater flow/solute transport model to predict the constituent conditions at the Point of Exposure.

#### 4.3.2.3 Air Sparge/Soil Vapor Extraction (Organics)

Air sparge/soil vapor extraction (“AS/SVE”) is also a feasible option to address trace organics in groundwater. The limited expanse of organics in groundwater and shallow condition allows for simpler installation, adjustment and operation.

Data gaps that exist with an AS/SVE approach include:

1. Additional data gathering and assessment of geology and hydrogeology to develop AS/SVE design parameters.

## 5 SCHEDULE

---

PMS will meet all VRP statutory schedule deadlines. PMS desires a more expeditious schedule compared to the statutory milestones, and will interact with EPD staff upon acceptance into the VRP to develop a schedule for resolution of remediation requirements for the Site.

## 6 REFERENCES

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- Clarke, John S., Hacke, Charles M., and Peck, Michael F., 1990, Geology and groundwater resources of the coastal area of Georgia. Department of Natural Resources, Environmental Protection Division, Georgia Geological Survey, Bulletin 113, 106.
- Environmental Planning Specialists, Inc. (EPS). 2015a. Sampling and Remediation Plan (Revision 2), PPC/PMS, Savannah, Georgia. May 18, 2015.
- EPS. 2015b. Addendum to the Sampling and Remediation Plan (Revision 2), PPC/PMS, Savannah, Georgia. August 3, 2015.
- EPS. 2015c. Status of Site Delineation, PPC/PMS, Savannah, Georgia. October 1, 2015.
- Environmental Protection Agency (EPA). 1991. Risk Assessment Guidance for Superfund: Volume I – Human Health Evaluation Manual (Part B, Development of Preliminary Remediation Goals. Interim. EPA/540/R-92/003. Publication 9285.7-01B. December 1991.
- EPA. 1996. Soil Screening Guidance: Technical Background Document. EPA/540/R95/128. May 1996.
- EPA. 2002. Supplemental Guidance for Developing Soil Screening Levels at Superfund Sites. OSWER 9355.4-24. December 2002.
- Georgia Environmental Protection Division (EPD.) Compliance Status Report Comparison of Existing Contamination to Risk Reduction Standards.  
<http://georgiaepd.org/Documents/hsraguideCSRRRS.html>.
- Gonthier, Gerald J. 2012. Hydrogeologic Characteristics and Water Quality of a Confined Sand Unit in the Surficial Aquifer System, Hunter Army Airfield, Chatham County, Georgia. USGS Scientific Investigations Report 2012-5082.



## **TABLES**

**Table 1. Well Completion and Groundwater Elevation**

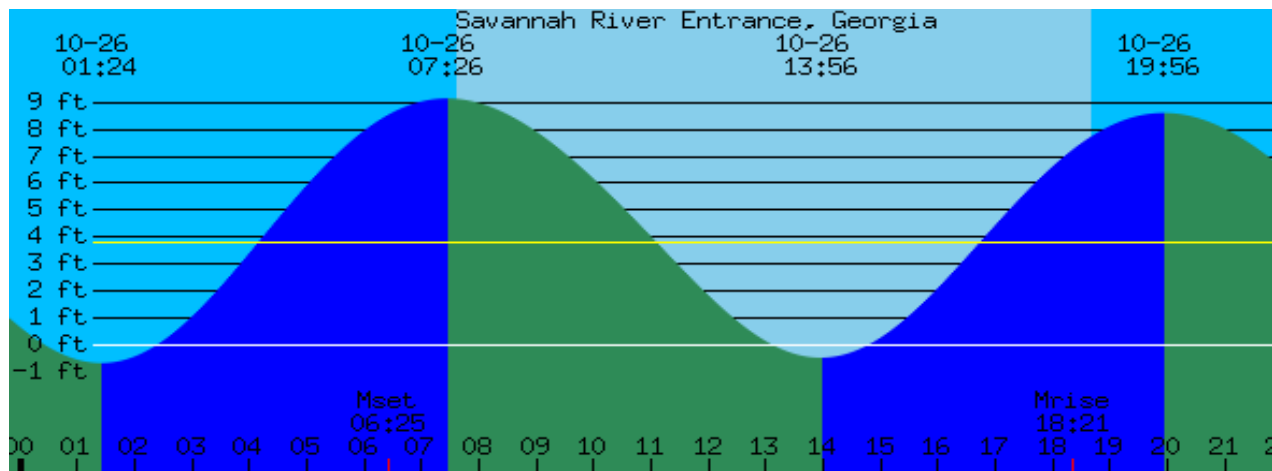
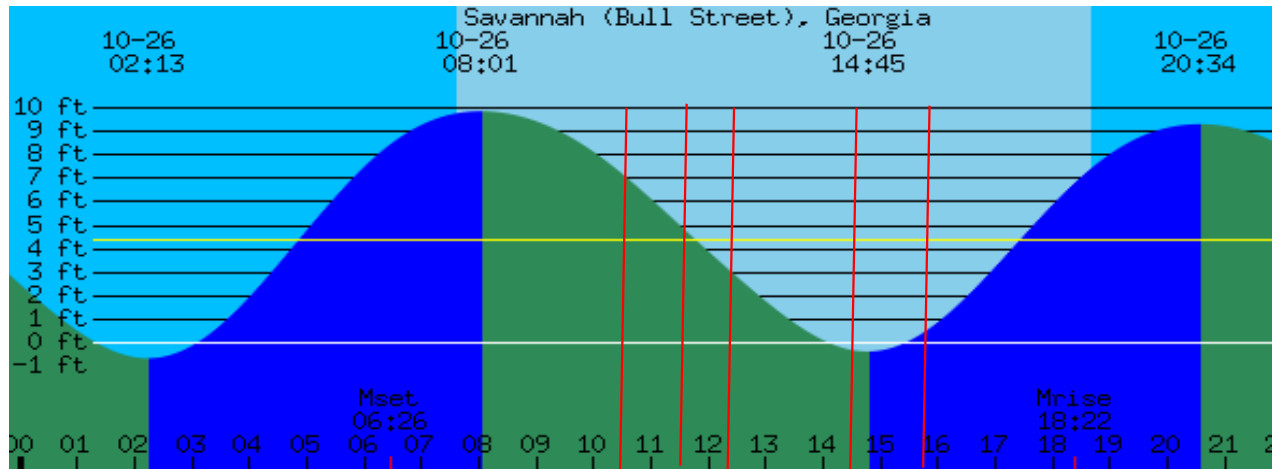
Well Completion Information						Groundwater Information		
Well ID	Date Completed	Current Total Depth	Top of Riser Elevation	Screen Top	Screen Bottom	Date Measured	Depth to Groundwater	Groundwater Elevation
MW-1	06/08/15	14.1	12.38	4.12	14.12	08/19/15	3.08	9.30
MW-2	06/08/15	13.9	13.87	3.86	13.86	08/19/15	4.79	9.08
MW-3	06/08/15	13.9	13.51	3.87	13.87	08/19/15	4.86	8.65
MW-4	06/08/15	14.8	13.41	4.80	14.80	08/19/15	4.11	9.30
MW-5	06/08/15	15.0	13.75	5.00	15.00	08/19/15	3.96	9.79
MW-6	06/08/15	15.0	14.71	4.99	14.99	08/19/15	3.88	10.83
MW-7	08/17/15	16.0	13.968	6.00	16.00	08/19/15	4.95	9.02
MW-8	08/17/15	16.0	13.044	6.00	16.00	08/19/15	5.54	7.50
MW-9	08/17/15	16.0	13.038	6.00	16.00	08/19/15	3.74	9.30
MW-10	08/17/15	16.0	13.93	6.00	16.00	08/19/15	4.64	9.29
MW-11	08/18/15	16.0	14.064	6.00	16.00	08/19/15	4.94	9.12
MW-12	08/17/15	16.0	15.96	6.00	16.00	08/19/15	5.00	10.96
MW-13	08/17/15	16.0	15.84	6.00	16.00	08/19/15	5.07	10.77
MW-14	10/26/15	18.0	15.85	8.00	18.00	10/27/15	6.93	8.92
MW-15	10/26/15	18.0	16.84	8.00	18.00	10/27/15	8.26	8.58
MW-16	10/26/15	17.5	15.88	7.50	17.50	10/27/15	6.79	9.09

Units: feet

**Table 2. Tidal Gauging Data**

	Staff Gauge Rdg.	MW-7 Depth to Water	Time	Date	Tide EL (ft amsl)	Canal Water EL (ft amsl)	MW-7 Water EL (ft amsl)
datum EL	14.2	13.96					
	0.48	5.09	10:30	26-Oct	7.0	10.48	8.87
	0.48	5.09	11:30	26-Oct	4.8	10.48	8.87
	0.48	5.11	12:15	26-Oct	3.0	10.48	8.85
	0.48	5.06	14:19	26-Oct	0.0	10.48	8.90
	0.48	5.06	15:45	26-Oct	0.6	10.48	8.90

Notes:      Anomalous reading  
 Staff gauge datum is at 4.2ft mark on staff





**Table 4. Summary of Detected Constituents in Groundwater**

Location	Date Sampled	Barium µg/L	Chromium µg/L	Lead µg/L	Nickel µg/L	Zinc µg/L	bis(2-Ethylhexyl) phthalate µg/L
<b>Residential RRS</b>		<b>3100</b>	<b>100</b>	<b>15</b>	<b>310</b>	<b>4700</b>	<b>61</b>
<b>NonResidential RRS</b>		<b>20000</b>	<b>100</b>	<b>15</b>	<b>2000</b>	<b>31000</b>	<b>200</b>
<b>Background Locations</b>							
MW-6	6/9/2015	49	<10	<10	<20	<20	13
<b>On-Site Locations</b>							
MW-1	6/10/2015	91	<10	<10	<20	25	<10
MW-2	6/10/2015	282	49	10	<20	88	<10
MW-3	6/9/2015	338	49	<10	29	93	<10
MW-4	6/9/2015	99	<10	<10	<20	<20	<10
MW-5	6/9/2015	47	<10	<10	<20	<20	<10

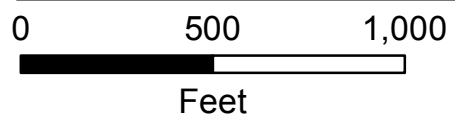
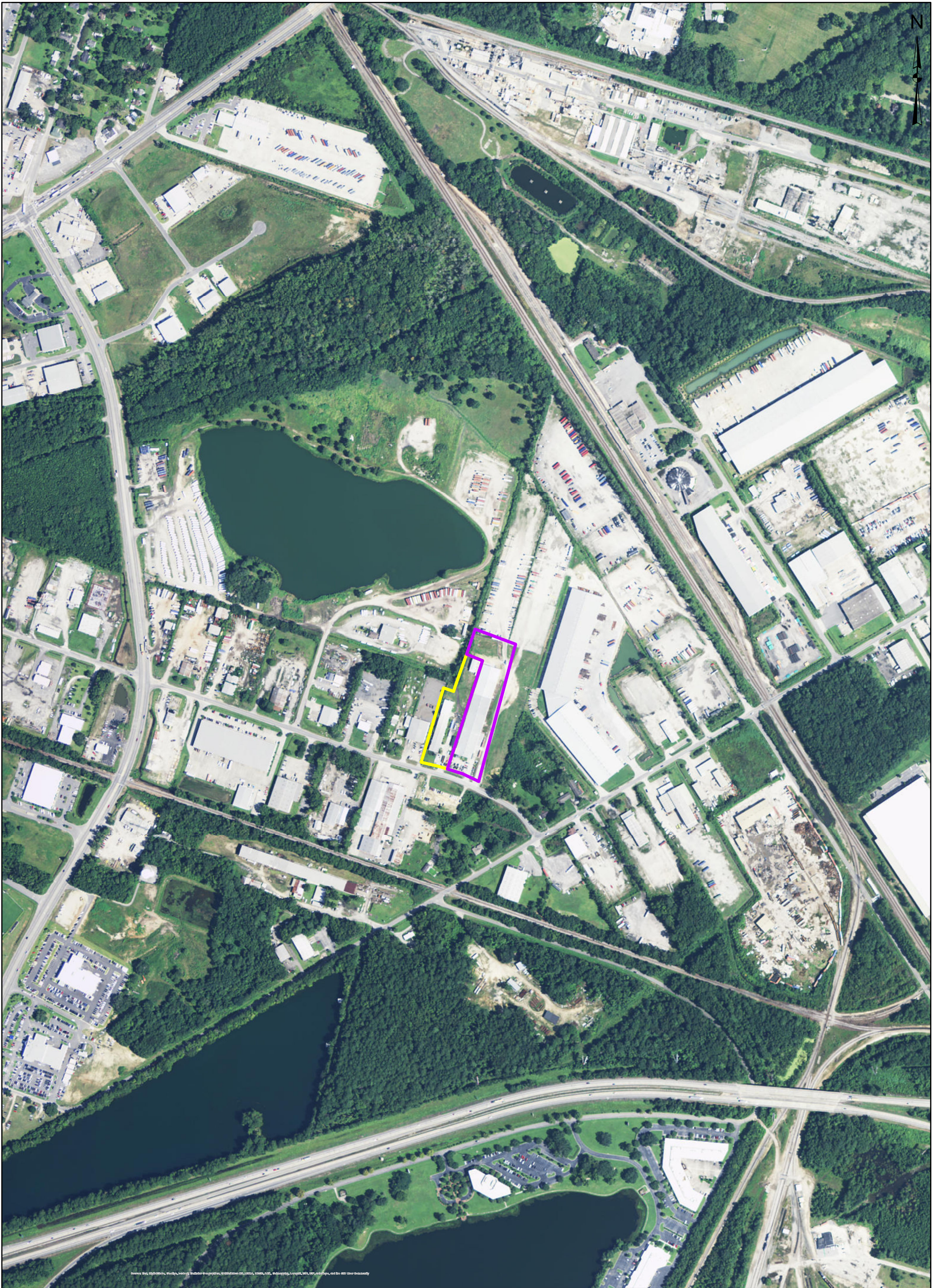
Location	Date Sampled	Chromium, hexavalent µg/L
<b>Residential RRS</b>		<b>1.7</b>
<b>NonResidential RRS</b>		<b>5.7</b>
<b>Background Locations</b>		
MW-6	8/17/2015	<0.01
MW-12	8/18/2015	0.049
MW-13	8/18/2015	0.043
<b>On-Site Locations</b>		
MW-1	8/17/2015	<0.01
MW-2	8/17/2015	<0.01
MW-3	8/17/2015	<0.01
MW-4	8/17/2015	<0.01
MW-5	8/18/2015	0.038
MW-7	8/19/2015	<0.01
MW-8	8/19/2015	<0.01
MW-9	8/19/2015	<0.01
MW-10	8/19/2015	0.068
MW-11	8/19/2015	0.058
MW-14	10/27/2015	<0.01
MW-15	10/27/2015	<0.01
MW-16	10/27/2015	<0.01

**Table 5. Summary of Detected Constituents in Surface Water**



Location	Date Sampled	Barium µg/L	Chromium µg/L	Chromium, hexavalent µg/L	Zinc µg/L
<b>Acute In-Stream WQS</b>			<b>320</b>	<b>16</b>	<b>65</b>
<b>Chronic In-Stream WQS</b>			<b>42</b>	<b>11</b>	<b>65</b>
<b>Up-Gradient of Outfall</b>					
SW-4	6/10/2015	39	<10	0.46	22
<b>Down-Gradient of Outfall</b>					
SW-1	6/10/2015	46	17.8	0.45	37
SW-2	6/10/2015	38	<10	0.29	24
SW-3	6/10/2015	44	<10	0.42	23

WQS: Georgia Water Quality Standard

## **FIGURES**



**Parcels**

-  PMS Parcel
-  PPC Parcel

**Site Location**  
 Precision Machine of Savannah  
 6 Telfair Place  
 Savannah, GA 31415

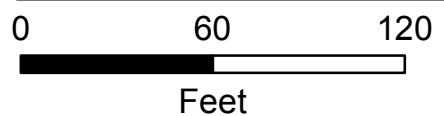




6-0737-01-009

6-0737-01-010

Source: Esri,  
DigitalGlobe,



**Site Land Parcels**  
Precision Machine of Savannah  
6 Telfair Place  
Savannah, GA 31415

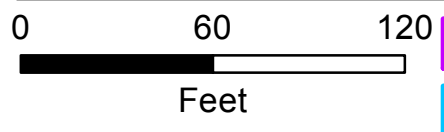
DRAINAGE DITCH



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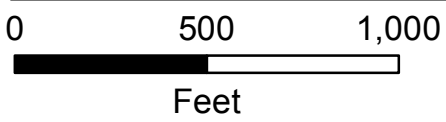
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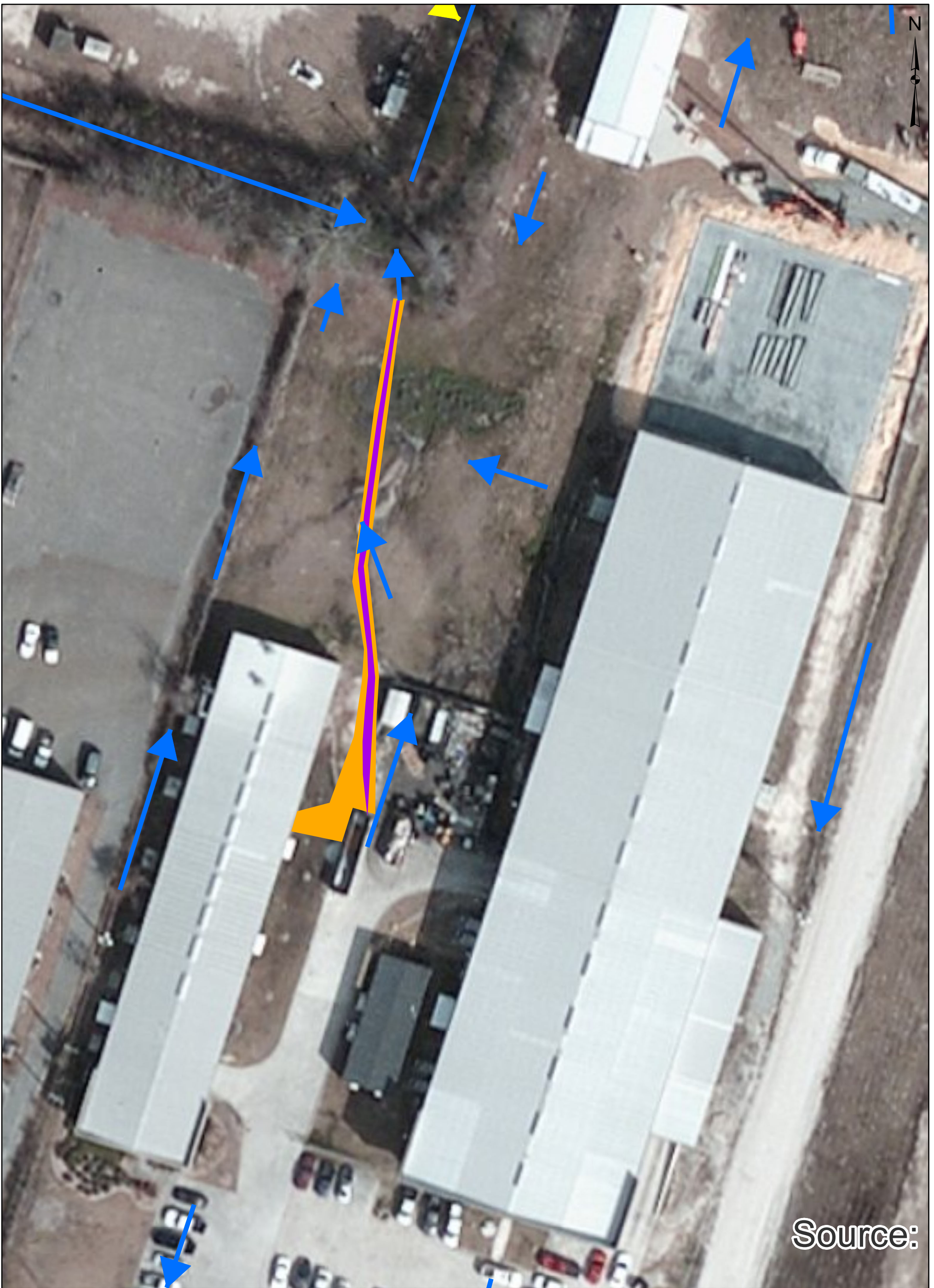
- PMS Parcel
- PPC Parcel
- Buildings
- Access Road
- Parking Lot
- Outfall
- Overland Stormwater
- Retention Pond

**Site Features**  
Precision Machine of Savannah  
6 Telfair Place  
Savannah, GA 31415

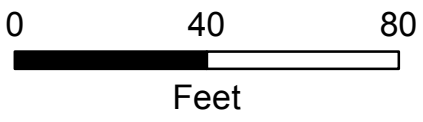


- PMS Parcel
- PPC Parcel

**Local Area Setting**  
**Precision Machine of Savannah**  
**6 Telfair Place**  
**Savannah, GA 31415**



Source:



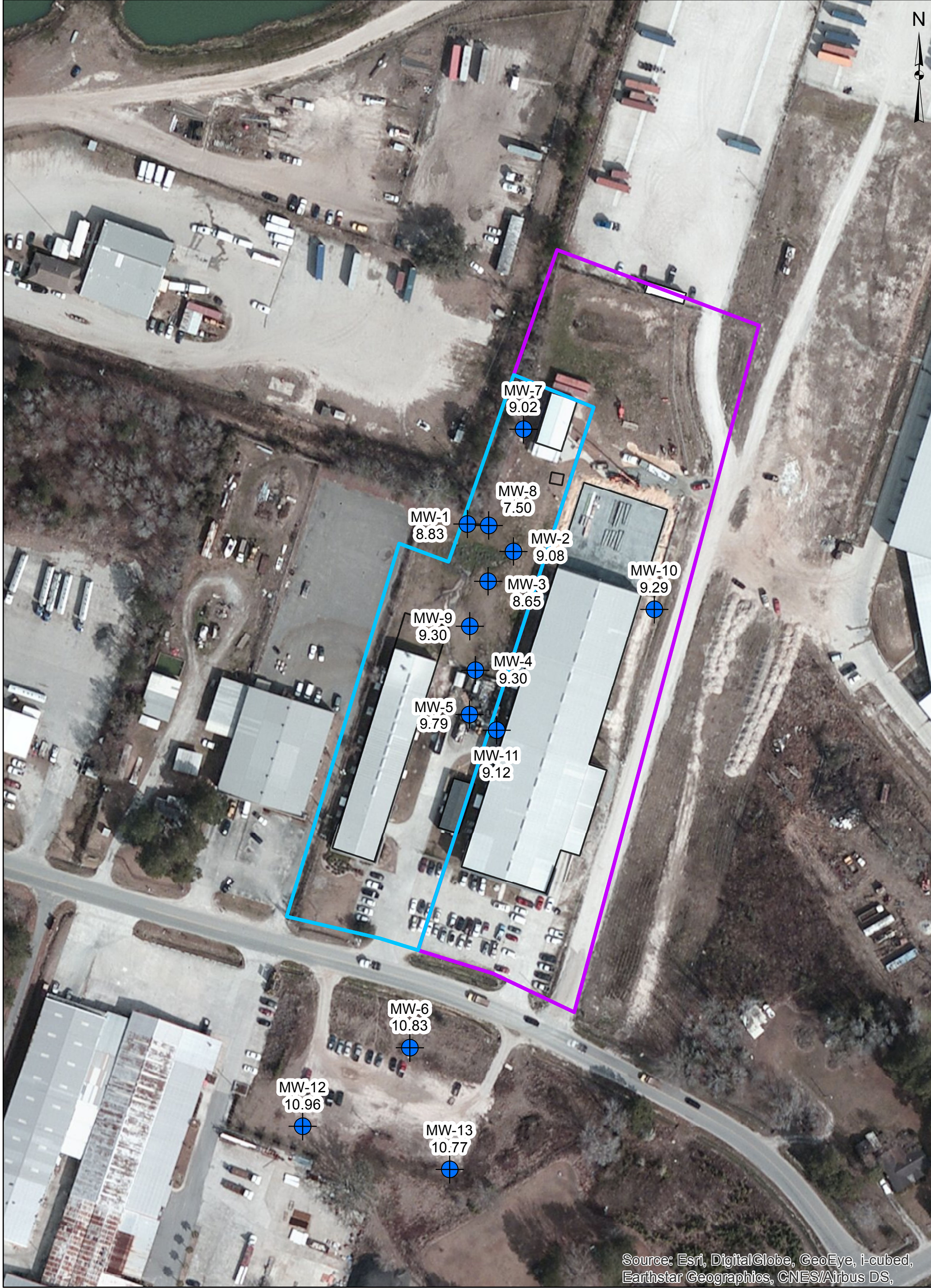
→ Overland Stormwater



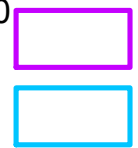
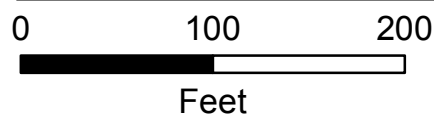
Coolant Release Area

Soil Excavation Area

**Coolant Release Area**  
 Precision Machine of Savannah  
 6 Telfair Place  
 Savannah, GA 31415



Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS,

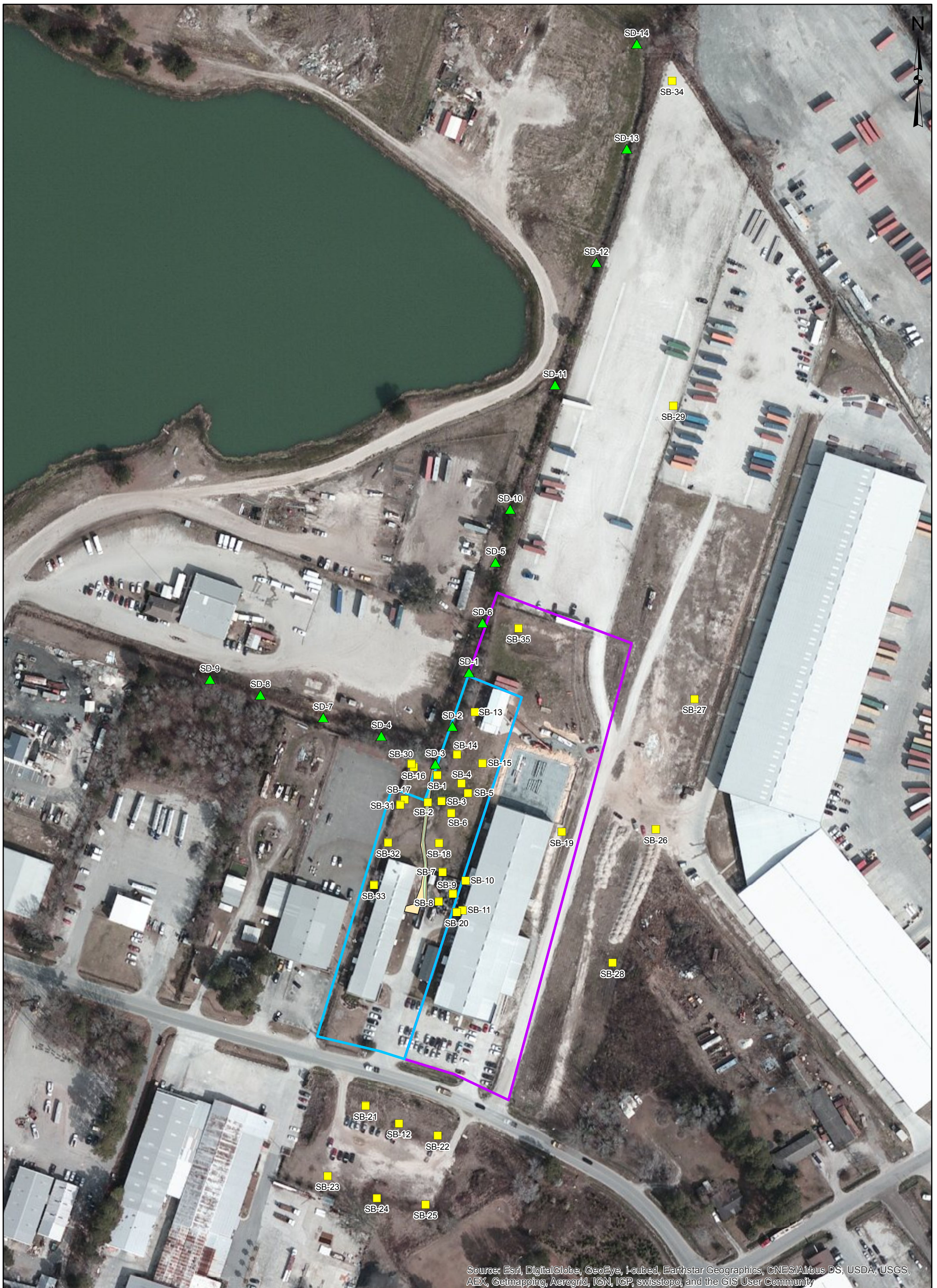


PMS Parcel  
PPC Parcel



Groundwater Elevation (Aug 2015)

**Groundwater Elevation**  
Precision Machine of Savannah  
6 Telfair Place  
Savannah, GA 31415



0 150 300  
 Feet



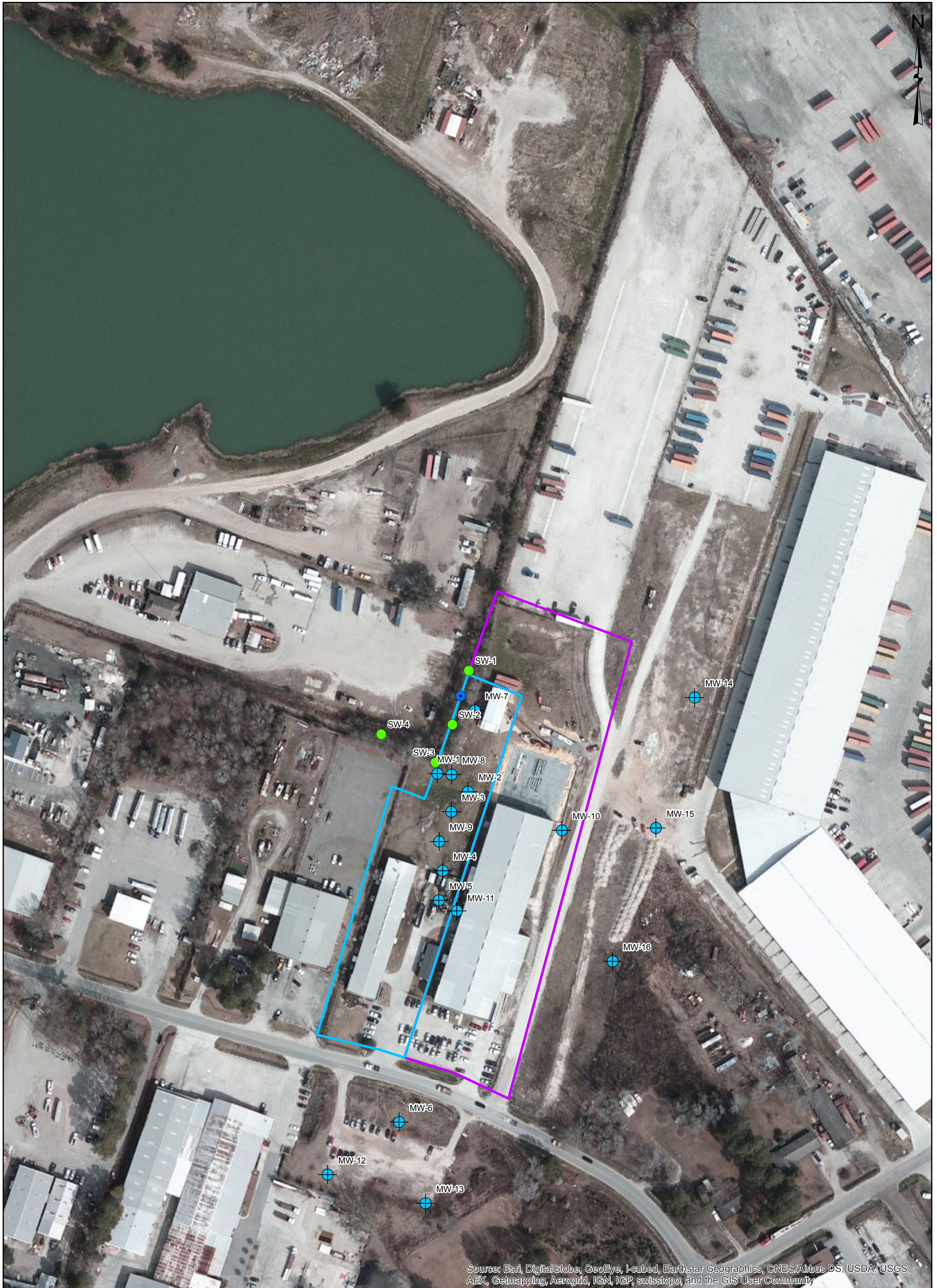
Canal Soil/Sediment Sample Location



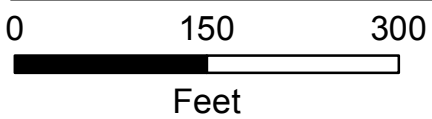
Upland Soil Sample Location

**Soil & Sediment  
 Sample Locations**

Precision Machine of Savannah  
 6 Telfair Place  
 Savannah, GA 31415



Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



- Surface Water Sample Location
- ⊕ Groundwater Sample Location
- Staff Gauge

### Surface Water & Groundwater Sample Locations


Precision Machine of Savannah  
6 Telfair Place  
Savannah, GA 31415

## **APPENDIX A**


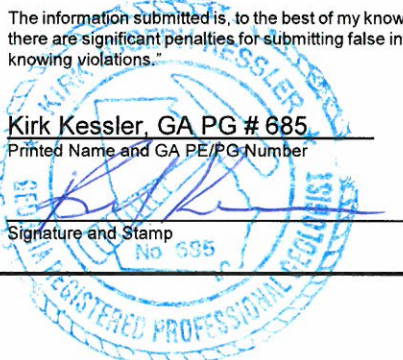
# **VOLUNTARY REMEDIATION PROGRAM APPLICATION FORM AND CHECKLIST**



## Voluntary Investigation and Remediation Plan Application Form and Checklist

VRP APPLICANT INFORMATION					
COMPANY NAME	Precision Machine of Savannah				
CONTACT PERSON/TITLE	David M. Johnson, Operations Director				
ADDRESS	6 Telfair Place Savannah, GA 31415				
PHONE	912-712-3074	FAX	912-234-1148	E-MAIL	Dave.Johnson@pmsav.com
GEORGIA CERTIFIED PROFESSIONAL GEOLOGIST OR PROFESSIONAL ENGINEER OVERSEEING CLEANUP					
NAME	Kirk Kessler	GA PE/PG NUMBER	PG# 685		
COMPANY	Environmental Planning Specialists, Inc.				
ADDRESS	1050 Crown Pointe Parkway, Ste 550				
PHONE	404-315-9113	FAX	404-315-8509	E-MAIL	kkessler@envplanning.com
APPLICANT'S CERTIFICATION					
<p>In order to be considered a qualifying property for the VRP:</p> <p>(1) The property must have a release of regulated substances into the environment;</p> <p>(2) The property shall not be:</p> <p style="margin-left: 20px;">(A) Listed on the federal National Priorities List pursuant to the federal Comprehensive Environmental Response, Compensation, and Liability Act, 42 U.S.C. Section 9601.</p> <p style="margin-left: 20px;">(B) Currently undergoing response activities required by an order of the regional administrator of the federal Environmental Protection Agency; or</p> <p style="margin-left: 20px;">(C) A facility required to have a permit under Code Section 12-8-66.</p> <p>(3) Qualifying the property under this part would not violate the terms and conditions under which the division operates and administers remedial programs by delegation or similar authorization from the United States Environmental Protection Agency.</p> <p>(4) Any lien filed under subsection (e) of Code Section 12-8-96 or subsection (b) of Code Section 12-13-12 against the property shall be satisfied or settled and released by the director pursuant to Code Section 12-8-94 or Code Section 12-13-6.</p> <p>In order to be considered a participant under the VRP:</p> <p>(1) The participant must be the property owner of the voluntary remediation property or have express permission to enter another's property to perform corrective action.</p> <p>(2) The participant must not be in violation of any order, judgment, statute, rule, or regulation subject to the enforcement authority of the director.</p> <p>I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.</p> <p>I also certify that this property is eligible for the Voluntary Remediation Program (VRP) as defined in Code Section 12-8-105 and I am eligible as a participant as defined in Code Section 12-8-106.</p>					
APPLICANT'S SIGNATURE					
APPLICANT'S NAME/TITLE (PRINT)	David M. Johnson – Operations Director			DATE	4/25/16

QUALIFYING PROPERTY INFORMATION (For additional qualifying properties, please refer to the last page of application form)			
HAZARDOUS SITE INVENTORY INFORMATION (if applicable)			
HSI Number	N/A	Date HSI Site listed	N/A
HSI Facility Name		NAICS CODE	
PROPERTY INFORMATION			
TAX PARCEL ID	60737 01009	PROPERTY SIZE (ACRES)	3
PROPERTY ADDRESS	6 Telfair Place		
CITY	Savannah	COUNTY	Chatham
STATE	GA	ZIPCODE	31415
LATITUDE (decimal format)		LONGITUDE (decimal format)	
PROPERTY OWNER INFORMATION			
PROPERTY OWNER(S)	Hugh W. Kesler, Jr	PHONE #	912-660-5763
MAILING ADDRESS	6 Telfair Place		
CITY	Savannah	STATE/ZIPCODE	GA 31415
ITEM #	DESCRIPTION OF REQUIREMENT	Location in VRP (i.e. pg., Table #, Figure #, etc.)	For EPD Comment Only (Leave Blank)
1.	<b>\$5,000 APPLICATION FEE</b> IN THE FORM OF A CHECK PAYABLE TO THE GEORGIA DEPARTMENT OF NATURAL RESOURCES. (PLEASE LIST CHECK DATE AND CHECK NUMBER IN COLUMN TITLED "LOCATION IN VRP." PLEASE DO NOT INCLUDE A SCANNED COPY OF CHECK IN ELECTRONIC COPY OF APPLICATION.)	Attached to transmittal letter	
2.	<b>WARRANTY DEED(S)</b> FOR QUALIFYING PROPERTY.	Appendix B	
3.	<b>TAX PLAT</b> OR OTHER FIGURE INCLUDING QUALIFYING PROPERTY BOUNDARIES, ABUTTING PROPERTIES, AND TAX PARCEL IDENTIFICATION NUMBER(S).	Appendix B	
4.	<b>ONE (1) PAPER COPY AND TWO (2) COMPACT DISC (CD) COPIES</b> OF THE VOLUNTARY REMEDIATION PLAN IN A SEARCHABLE PORTABLE DOCUMENT FORMAT (PDF).	Enclosed with Application document	
5.	The VRP participant's initial plan and application must include, using all reasonably available current information to the extent known at the time of application, a graphic three-dimensional preliminary conceptual site model (CSM) including a preliminary remediation plan with a table of delineation standards, brief supporting text, charts, and figures (no more than 10 pages, total) that illustrates the site's surface and subsurface setting, the known or suspected source(s) of contamination, how contamination might move within the environment, the potential human health and ecological receptors, and the complete or incomplete exposure pathways that may exist at the site; the preliminary CSM must be updated as the investigation and remediation progresses and an up-to-date CSM must be included in each semi-annual status report submitted to the director by the participant; a <b>PROJECTED MILESTONE SCHEDULE</b> for investigation and remediation of the site, and after enrollment as a participant, must update the schedule in each semi-annual status report to the director describing implementation of the plan	Sections 1-6 of the VRP Application document	

	<p>during the preceding period. A Gantt chart format is preferred for the milestone schedule.</p> <p>The following four (4) generic milestones are required in all initial plans with the results reported in the participant's next applicable semi-annual reports to the director. The director may extend the time for or waive these or other milestones in the participant's plan where the director determines, based on a showing by the participant, that a longer time period is reasonably necessary:</p>		
5.a.	<p>Within the first 12 months after enrollment, the participant must complete horizontal delineation of the release and associated constituents of concern on property where access is available at the time of enrollment;</p>	To be provided in first Progress Report	
5.b.	<p>Within the first 24 months after enrollment, the participant must complete horizontal delineation of the release and associated constituents of concern extending onto property for which access was not available at the time of enrollment;</p>	Plan to provide in first Progress Report	
5.c.	<p>Within 30 months after enrollment, the participant must update the site CSM to include vertical delineation, finalize the remediation plan and provide a preliminary cost estimate for implementation of remediation and associated continuing actions; and</p>	Section 5 of VRP Application	
5.d.	<p>Within 60 months after enrollment, the participant must submit the compliance status report required under the VRP, including the requisite certifications.</p>	Section 5 of VRP Application	
6.	<p><b>SIGNED AND SEALED PE/PG CERTIFICATION AND SUPPORTING DOCUMENTATION:</b></p> <p>"I certify under penalty of law that this report and all attachments were prepared by me or under my direct supervision in accordance with the Voluntary Remediation Program Act (O.C.G.A. Section 12-8-101, <u>et seq.</u>). I am a professional engineer/professional geologist who is registered with the Georgia State Board of Registration for Professional Engineers and Land Surveyors/Georgia State Board of Registration for Professional Geologists and I have the necessary experience and am in charge of the investigation and remediation of this release of regulated substances.</p> <p>Furthermore, to document my direct oversight of the Voluntary Remediation Plan development, implementation of corrective action, and long term monitoring, I have attached a monthly summary of hours invoiced and description of services provided by me to the Voluntary Remediation Program participant since the previous submittal to the Georgia Environmental Protection Division.</p> <p>The information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."</p> <p><u>Kirk Kessler, GA PG # 685</u>  Printed Name and GA PE/PG Number</p> <p>_____ Date</p> <p><u></u>  Signature and Stamp</p> 		

**ADDITIONAL QUALIFYING PROPERTIES (COPY THIS PAGE AS NEEDED)**

PROPERTY INFORMATION			
TAX PARCEL ID	60737 01010	PROPERTY SIZE (ACRES)	3
PROPERTY ADDRESS	8 Telfair Place		
CITY	Savannah	COUNTY	Chatham
STATE	GA	ZIPCODE	31415
LATITUDE (decimal format)		LONGITUDE (decimal format)	
PROPERTY OWNER INFORMATION			
PROPERTY OWNER(S)	Hugh W. Kesler, Jr.	PHONE #	912-660-5763
MAILING ADDRESS	6 Telfair Place		
CITY	Savannah	STATE/ZIPCODE	GA 31415

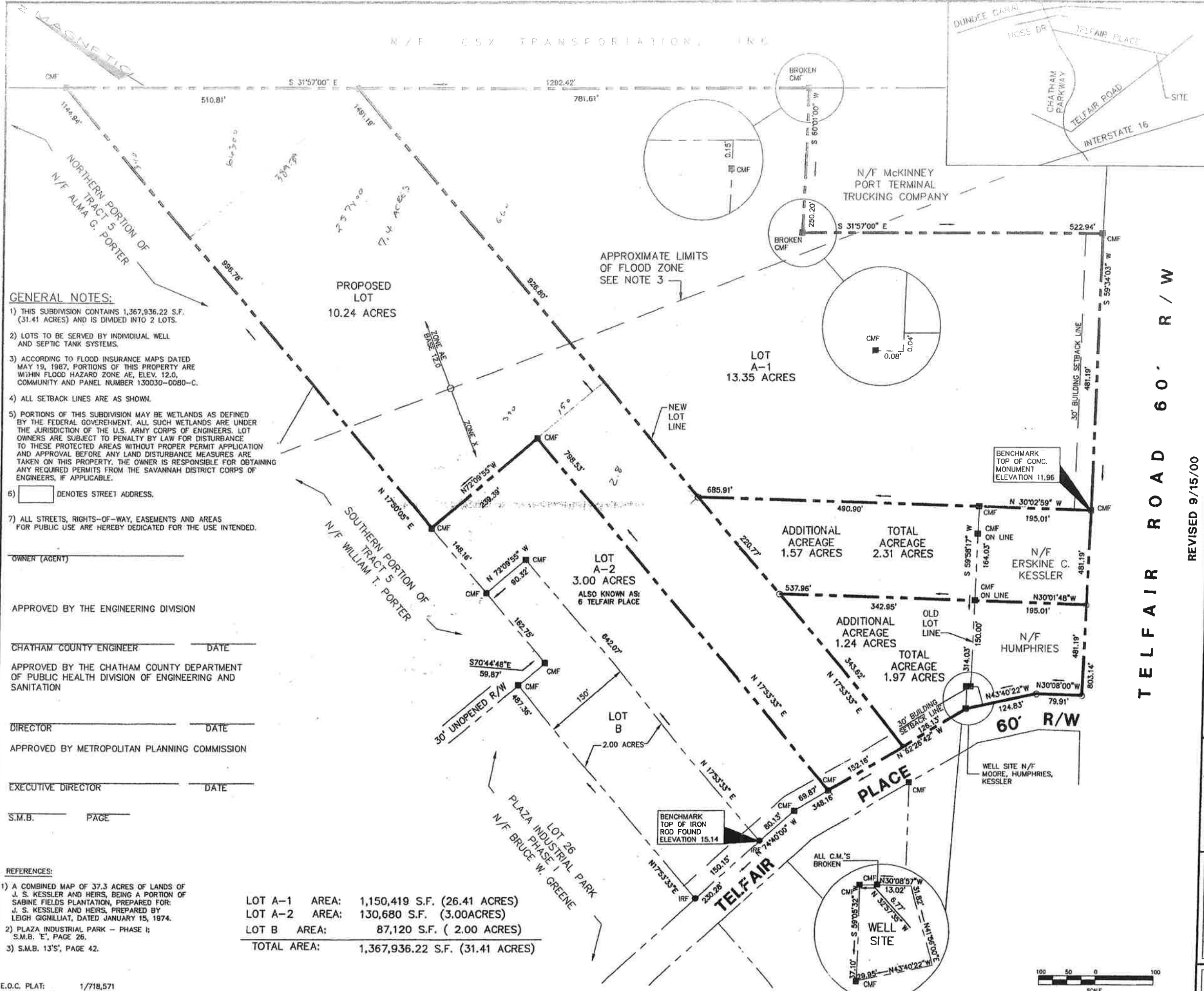
PROPERTY INFORMATION			
TAX PARCEL ID		PROPERTY SIZE (ACRES)	
PROPERTY ADDRESS			
CITY		COUNTY	
STATE		ZIPCODE	
LATITUDE (decimal format)		LONGITUDE (decimal format)	
PROPERTY OWNER INFORMATION			
PROPERTY OWNER(S)		PHONE #	
MAILING ADDRESS			
CITY		STATE/ZIPCODE	

PROPERTY INFORMATION			
TAX PARCEL ID		PROPERTY SIZE (ACRES)	
PROPERTY ADDRESS			
CITY		COUNTY	
STATE		ZIPCODE	
LATITUDE (decimal format)		LONGITUDE (decimal format)	
PROPERTY OWNER INFORMATION			
PROPERTY OWNER(S)		PHONE #	
MAILING ADDRESS			
CITY		STATE/ZIPCODE	

**APPENDIX B**

**TAX MAP AND WARRANTY DEED**

D:\199\199283\dwg\MINOR.dwg 09/15/00 10:18:20 AM AM EDT



**GENERAL NOTES:**

- 1) THIS SUBDIVISION CONTAINS 1,367,936.22 S.F. (31.41 ACRES) AND IS DIVIDED INTO 2 LOTS.
- 2) LOTS TO BE SERVED BY INDIVIDUAL WELL AND SEPTIC TANK SYSTEMS.
- 3) ACCORDING TO FLOOD INSURANCE MAPS DATED MAY 19, 1987, PORTIONS OF THIS PROPERTY ARE WITHIN FLOOD HAZARD ZONE AE, ELEV. 12.0, COMMUNITY AND PANEL NUMBER 130030-0080-C.
- 4) ALL SETBACK LINES ARE AS SHOWN.
- 5) PORTIONS OF THIS SUBDIVISION MAY BE WETLANDS AS DEFINED BY THE FEDERAL GOVERNMENT. ALL SUCH WETLANDS ARE UNDER THE JURISDICTION OF THE U.S. ARMY CORPS OF ENGINEERS. LOT OWNERS ARE SUBJECT TO PENALTY BY LAW FOR DISTURBANCE TO THESE PROTECTED AREAS WITHOUT PROPER PERMIT APPLICATION AND APPROVAL BEFORE ANY LAND DISTURBANCE MEASURES ARE TAKEN ON THIS PROPERTY. THE OWNER IS RESPONSIBLE FOR OBTAINING ANY REQUIRED PERMITS FROM THE SAVANNAH DISTRICT CORPS OF ENGINEERS, IF APPLICABLE.
- 6) DENOTES STREET ADDRESS.
- 7) ALL STREETS, RIGHTS-OF-WAY, EASEMENTS AND AREAS FOR PUBLIC USE ARE HEREBY DEDICATED FOR THE USE INTENDED.

OWNER (AGENT) \_\_\_\_\_

APPROVED BY THE ENGINEERING DIVISION \_\_\_\_\_

CHATHAM COUNTY ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

APPROVED BY THE CHATHAM COUNTY DEPARTMENT OF PUBLIC HEALTH DIVISION OF ENGINEERING AND SANITATION \_\_\_\_\_

DIRECTOR \_\_\_\_\_ DATE \_\_\_\_\_

APPROVED BY METROPOLITAN PLANNING COMMISSION \_\_\_\_\_

EXECUTIVE DIRECTOR \_\_\_\_\_ DATE \_\_\_\_\_

S.M.B. \_\_\_\_\_ PAGE \_\_\_\_\_

- REFERENCES:**
- 1) A COMBINED MAP OF 37.3 ACRES OF LANDS OF J. S. KESSLER AND HEIRS, BEING A PORTION OF SABINE FIELDS PLANTATION, PREPARED FOR J. S. KESSLER AND HEIRS, PREPARED BY LEIGH GIGNILIAT, DATED JANUARY 15, 1974.
  - 2) PLAZA INDUSTRIAL PARK - PHASE I; S.M.B. 'E', PAGE 26.
  - 3) S.M.B. 13'S, PAGE 42.

LOT A-1	AREA:	1,150,419 S.F. (26.41 ACRES)
LOT A-2	AREA:	130,680 S.F. (3.00 ACRES)
LOT B	AREA:	87,120 S.F. ( 2.00 ACRES)
<b>TOTAL AREA:</b>		<b>1,367,936.22 S.F. (31.41 ACRES)</b>



**EMC ENGINEERING SERVICES, INC.**  
 Post Office Box 8101  
 23 East Charlton Street  
 Savannah, Georgia 31412  
 Phone: (912) 232-6533

**RECOMBINATION PLAT OF LOTS 'A' AND 'B', BEING A PORTION OF THE FORMER BLOCK 'H', SABINE FIELDS AND PARCEL 'C', J. H. ROBERTS ESTATE SUBDIVISION, 7TH. G. M. DISTRICT, CHATHAM COUNTY, GEORGIA**  
 SURVEYED FOR:  
**HUEY KESSLER**

**REVISIONS:**

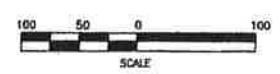
NO.	DATE

DESIGN:	RDG
GRAPHICS:	RDG
REVIEW:	TMC
DATE:	6/14/99
SCALE:	1"=100'
PROJECT:	99-283

SHEET: 1 OF 1

**TELFAIR ROAD 60' R/W**

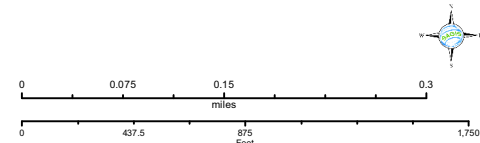
REVISED 9/15/00



# 6 Telfair Place



- Parcels Outline
- Buildings



Savannah Area Geographic Information System (SAGIS)

[www.SAGIS.org](http://www.SAGIS.org)

Sources: Esri, HERE, DeLorme, USGS, Intermap, increment P Corp., NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

**2015 Chatham County Board of Assessors**

**6-0737-01-009**

**Property Record Card**

**6 TELFAIR PL SAVANNAH**

APPRAISER swcorcor	LOT A-2 SUB OF LOTS A & B OF A PORTION OF BLOCK H SABINE FIELDS & PARCEL C	KESLER	CAMA	ASMT	
LAST INSP 10/29/2013	ROBERTS ESTATE SUB SMB 19S 60 3 ac SMB 20S 62	HUGH W JR	289,800	289,800	LAND 1
APPR 000009		8 TELFAIR PLACE	1,932,700	1,932,700	BLDG 2
ZONE		SAVANNAH GA 31415	54,900	54,900	OBXF 6
			2,277,400	2,277,400	Cost - MS

SALES	BOOK / PAGE	INS VI QU RSN	PRICE
20 Nov 2006	317Y 7565	QC V U UQ	
GRANTOR:KESLER HUGH W JR & PAMELA GRANTEE:KESLER HUGH W JR			
30 Jun 2000	210U 0425	WD V Q	114,000
GRANTOR:MOORE&KESSLER MARY ET AL GRANTEE:HUGH & PAMELA KESLER			



[Click for larger picture]

CODES		
PROPERTY USE	0004	INDUSTRIAL
UTA	0006	Garden City
NBHD	020590.00	T590 TELFAIR PLACE
EXEMPTIONS		
COMM CATEG	494	Industrials, Light Mftg.

PERMITS	TYPE	DATE	AMOUNT
5217	AD	07 Dec 2006	Comp 125,230
Dummy	NO	01 Jan 2002	Comp
4142	WL	01 Jan 2002	Comp 4,000

COMMENTS:	
31 Oct 2013	10/29/2013 REVIEWED BY STEVE CORCORAN FOR BUILDING ADDITION.
29 Jan 2013	01/28/2013 2012 BOE SHOW CHANGE \$1,645,000.00. STEVE CORCORAN.
08 Feb 2006	ADD CNG PER ONR 2/8/06 APW
14 Feb 2002	02/13/2002 Inspected by SWC to measure new construction. SWC.
05 Jan 2001	2001 New PIN; split out of PIN 6-737-1-5 SMB 19S-60 10/18/00. 01/05/2001 Split processed by Steve Corcoran. SWC.

HISTORY	LAND	IMPR	TOTAL	
2014	289,800	1,355,200	1,645,000	Over
2013	289,800	1,355,200	1,645,000	Over
2012	289,800	1,764,500	2,054,300	Cama
2012	289,800	1,355,200	1,645,000	Over
2011	290,000	1,274,500	1,564,500	MAV
2010	290,000	1,274,500	1,564,500	MAV
2009	290,000	1,274,500	1,564,500	Over
2008	290,000	1,274,500	1,564,500	Cama
2007	555,000	875,000	1,430,000	Cama
2006	555,000	530,500	1,085,500	Cama
2005	210,000	530,500	740,500	Cama
2004	210,000	516,000	726,000	Cama
2003	90,000	516,000	606,000	Cama
2002	90,000	516,000	606,000	Cama
2001	90,000		90,000	Cama



EXTRA FEATURES																	
ID#	BLDG #	SYSTEM DESC	DIM 1	DIM 2	UNITS	QL	UNIT PRICE	RCN	AYB	EYB	DT	ECON	FUNC	SP	SP%	RCNLD	MKT VALUE
155509	95370	CONCRETE PAVE 500	0	0	6001.00	3	2.73	16,383	2001	2001	35					12,779	11,500
155510	95370	AWN STY 14 ST AVG Front entrance canopy	100	5	500.00	3	12.13	6,065	2001	2001	35					4,731	4,300
155511	95370	Uncoded Feature Description=Loading Dock Section 14, Page 27	95	22	2090.00	3	10.45	21,841	2001	2001	35					17,036	15,300
155512	95370	Uncoded Feature Description=Loading Well Section 14, Page 27	43	16	688.00	3	9.70	6,674	2001	2001	35					5,206	4,700
155513	95370	AWN STY 14 ST AVG	22	22	484.00	3	12.13	5,871	2001	2001	35					4,579	4,100
155514	95370	Uncoded Feature Description=Modular Office Section 64, Page 8	60	23	1380.00	3	17.30	23,874	2006	2006	20					16,712	15,000

LAND														
ID#	USE DESC	FRONT	DEPTH	UNITS / TYPE	PRICE	ZONING	LCTN	TOPO	OTHER	ADJ1	ADJ2	ADJ3	ADJ4	MKT VALUE
124231	INDUSTRIAL	0	0	3.00-AC	96600.00	I2								289800



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**6 TELFAIR PL SAVANNAH**

BUILDING SECTION	CONSTRUCTION TYPE	RCN	AYB	EYB	DEP TYPE	PHYS	ECON	FUNC	OBSV / %	TOTAL DEP %	RCNLD	U.FACTOR	MKT VAL
95370-1-2015	Commercial	2,171,529	2001	2004	MS	11.00	0.00	0.00	0.00	11.00	1,932,661	1.00	1,932,661

AREA	32300
STORIES	1.0
PERIMETER / SHAPE	848

OCCUPANCIES	AREA	%	CLASS	HEIGHT	QUAL
494 Industrials, Light Mftg.	7500	23.22	S	22.00	3.00
494 Industrials, Light Mftg.	7400	22.91	S	22.00	3.00
494 Industrials, Light Mftg.	5800	17.96	S	22.00	3.00
494 Industrials, Light Mftg.	1600	4.95	S	22.00	3.00
494 Industrials, Light Mftg.	10000	30.96	S	22.00	3.00

COMPONENTS	Units	%	QUAL
C2 611 Package Unit		100.00	
C1 888 Stud -Metal Siding		100.00	



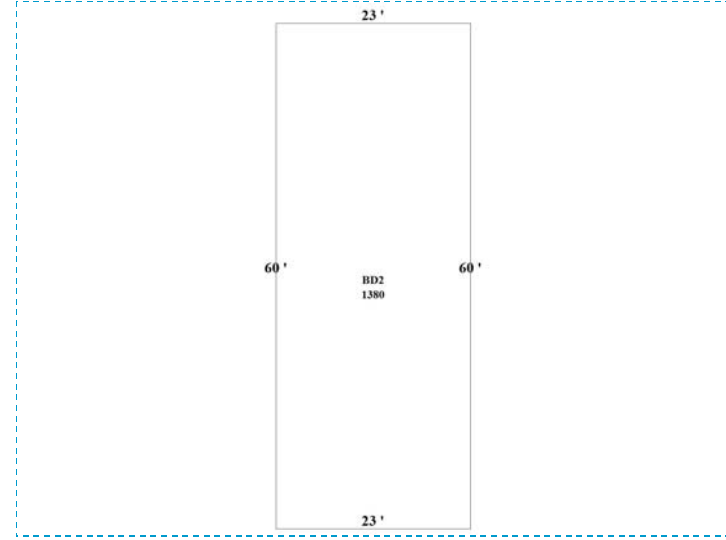
[Click for larger picture]

One story steel joist with corrugated metal siding; 22' tall; 1,600 square foot interior office; 5,800 square foot production area with halogen lighting; CHAC; insulated; painted concrete floor; 7,400 square feet of other area; 10,000 square feet add

**2015 Chatham County Board of Assessors**  
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**6-0737-01-009**  
**6 TELFAIR PL SAVANNAH**

<b>BUILDING SECTION</b> 95371-1-2015	CONSTRUCTION TYPE Drawing Only	RCN NaN	AYB NaN	EYB NaN	DEP TYPE MS	PHYS 0.00	ECON 0.00	FUNC 0.00	OBSV / % 0.00	TOTAL DEP % NaN	RCNLD NaN	U.FACTOR NaN	MKT VAL NaN
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COMPONENTS	Units	%	QUAL
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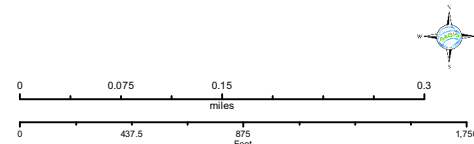
[Click for larger picture]

Modular office; one story; corrugated metal siding; CHAC; added in 2006; valued as "MISC" Item #6.

# 8 Telfair Pl



-  Parcels Outline
-  Buildings



Savannah Area Geographic Information System (SAGIS)

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Sources: Esri, HERE, DeLorme, USGS, Intermap, increment P Corp., NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

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**6-0737-01-010**

**Property Record Card**

**8 TELFAIR PL SAVANNAH**

APPRAISER swcorcor LAST INSP 10/29/2013 APPR 000009 ZONE	LOT 3 (A/K/A LOT B) SUB OF LOTS A & B OF A PORTION OF BLOCK H SABINE FIELDS & PARCEL C ROBERTS ESTATE SUB SMB 13S 42 SMB 19S 60 2 ac	KESLER HUGH W JR 8 TELFAIR PL SAVANNAH GA 31415-9502	CAMA 192,200 ASMT 192,200 LAND 1 BLDG 7 OBXF 13 Cost - MS
---	--	---	--

SALES	BOOK / PAGE	INS VI QU RSN	PRICE
18 Aug 1993	162G 0424	WD V Q	60,000
GRANTOR: MARY MOORE, BETH HUMPHRIES GRANTEE: HUGH W. KESLER, JR.			



[Click for larger picture]

CODES		
PROPERTY USE	0004	INDUSTRIAL
UTA	0006	Garden City
NBHD	020590.00	T590 TELFAIR PLACE
EXEMPTIONS		
COMMCATEG	494	Industrials, Light Mftg.

PERMITS	TYPE	DATE	AMOUNT
13-2589	CM	29 Oct 2013	Insp 125,000
95-00540	WL	24 Feb 2012	Comp 3,882
11-2096	CM	01 Jan 2012	Comp 45,000
00-5552	LD	11 Dec 2007	Comp
01-4260	CM	01 Jan 2003	Comp 10,000
01-4301	DM	01 Jan 2003	Comp 1
97-02473	AD	01 Jan 1999	Comp 45,000
94-01147	CM	01 Jan 1996	Comp 138,000

HISTORY	LAND	IMPR	TOTAL	
2014	192,200	741,235	933,435	Over
2013	192,200	741,235	933,435	Over
2012	192,200	885,200	1,077,400	Cama
2012	192,200	741,235	933,435	Over
2011	192,000	547,000	739,000	MAV
2010	192,000	547,000	739,000	MAV
2009	192,000	547,000	739,000	Over
2008	192,000	547,000	739,000	Cama
2007	368,000	378,000	746,000	Cama
2006	368,000	378,000	746,000	Cama
2005	139,500	378,000	517,500	Cama
2004	139,500	371,500	511,000	Cama
2003	84,500	371,500	456,000	Cama
2002	60,000	345,000	405,000	Cama
2001	60,000	350,500	410,500	Cama

COMMENTS:	
29 Jan 2013	01/28/2013 2012 BOE SHOW CHANGE \$933,435.00. STEVE CORCORAN.
05 Jan 2001	2001 PIN Change from 6-737-1-7 to 6-737-1-10. SMB 19S-60, 01/05/2001 Split processed by Steve Corcoran, SWC. 01/17/1996 Inspected by SWC; new construction picked up. ADD CHG 09/2/97 DH PER TC OFF.



EXTRA FEATURES																	
ID#	BLDG #	SYSTEM DESC	DIM 1	DIM 2	UNITS	QL	UNIT PRICE	RCN	AYB	EYB	DT	ECON	FUNC	SP	SP%	RCNLD	MKT VALUE
155515	95372	NO OFFICE SPACE AVG 1,150 SF vs 1,422 SF	0	0	272.00	3	-35.26	-9,591	1995	1995	35					-6,138	-5,500
155516	95372	AWN STY 14 ST AVG At front of Building #1.	0	0	220.00	3	12.13	2,669	1995	1995	35					1,708	1,500
155517	95372	CONCRETE SLAB 6" Concrete sidewalk	0	0	400.00	3	2.96	1,184	1995	1995	35					758	700
155518	95372	CONCRETE PAVE 500 Concrete pavement	0	0	6261.00	3	2.73	17,093	1995	1995	35					10,940	9,800
155519	95372	AWN STY 14 ST AVG On side of Building #1.	7	8	56.00	3	12.13	679	1995	1995	35					435	400
155520	95372	CONCRETE PAVE 500 On side of Building #1.	5	8	40.00	3	3.63	145	1995	1995	35					93	100
155521	95373	Comm porch avg	20	8	160.00	3	11.68	1,869	2002	2002	35					1,514	1,400
155522	95374	AWN STY 14 ST LOW	15	10	150.00	3	9.50	1,425	2002	2002	35					1,154	1,000
155523	95375	AWN STY 14 ST LOW	52	4	208.00	3	9.50	1,976	2002	2002	35					1,601	1,400
155524		Storage/Utility avg	5	7	35.00	5	9.84	275	2002	2002	35					223	200
155525		Storage/Utility avg	10	15	150.00	3	9.84	1,476	2002	2002	35					1,196	1,100
155526		Storage/Utility avg	10	10	100.00	5	9.84	787	2002	2002	35					637	600
155527		Storage/Utility avg	10	10	100.00	5	9.84	787	2002	2002	35					637	600

LAND																
ID#	USE DESC	FRONT	DEPTH	UNITS / TYPE	PRICE	ZONING	LCTN	TOPO	OTHER	ADJ1	ADJ2	ADJ3	ADJ4	MKT VALUE		
124232	MANUFACTURING LIGHT	0	0	1.99-AC	96600.00	I2								192200		

**2015 Chatham County Board of Assessors  
Property Record Card**

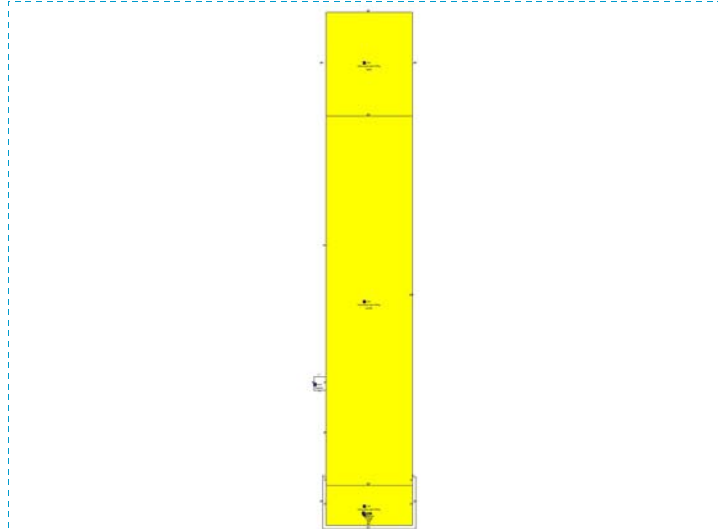
**6-0737-01-010  
8 TELFAIR PL SAVANNAH**

BUILDING SECTION	CONSTRUCTION TYPE	RCN	AYB	EYB	DEP TYPE	PHYS	ECON	FUNC	OBSV / %	TOTAL DEP %	RCNLD	U.FACTOR	MKT VAL
95372-1-2015	Commercial	972,773	1995	2000	MS	19.00	0.00	0.00	0.00	19.00	785,878	1.00	785,878

AREA	14850
STORIES	1.0
PERIMETER / SHAPE	894

OCCUPANCIES	AREA	%	CLASS	HEIGHT	QUAL
494 Industrials, Light Mftg.	3000	20.21	S	16.00	2.00
494 Industrials, Light Mftg.	1150	7.74	S	16.00	3.00
494 Industrials, Light Mftg.	10700	72.05	S	16.00	3.00

COMPONENTS	Units	%	QUAL
C2 611 Package Unit		100.00	
C1 888 Stud -Metal Siding		100.00	



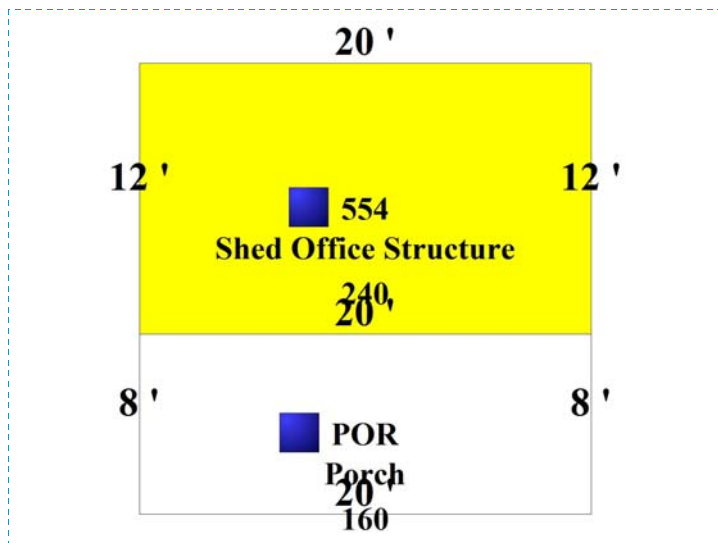
[Click for larger picture]

MACHINE SHOP. ONE STORY METAL; 16' HEIGHT; BUILT IN 1995 WITH 7,400 SQUARE FOOT ADDITION IN 1998; BUILDING BRAND IS GULF STATES; FULLY INSULATED; CHAC THROUGHOUT; TWO OHDS 14' X 14'; 1,150 SQUARE FEET INTERIOR OFFICE SPACE; EIGHT PLUMBING FIXTURES; A

**2015 Chatham County Board of Assessors**  
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**6-0737-01-010**  
**8 TELFAIR PL SAVANNAH**

BUILDING SECTION	CONSTRUCTION TYPE	RCN	AYB	EYB	DEP TYPE	PHYS	ECON	FUNC	OBSV / %	TOTAL DEP %	RCNLD	U.FACTOR	MKT VAL
95373-1-2015	Commercial	13,479	2002		MS	36.00	0.00	0.00	0.00	36.00	8,627	1.00	8,627



AREA	240
STORIES	1.0
PERIMETER / SHAPE	64

OCCUPANCIES	AREA	%	CLASS	HEIGHT	QUAL
554 Shed Office Structure	240	100.00	D	8.00	1.00

COMPONENTS	Units	%	QUAL
C2 606 Space Heater		100.00	
C1 894 Stud -Textured Plywood		100.00	

[Click for larger picture]

One story wood frame; 8' height; has one window air conditioning unit. Measured on 04/14/2003; unable to photograph ("memory card full").

**2015 Chatham County Board of Assessors**  
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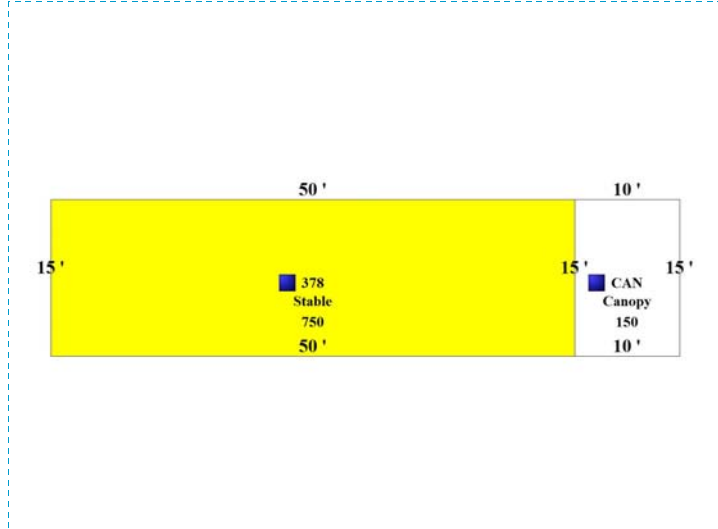
**6-0737-01-010**  
**8 TELFAIR PL SAVANNAH**

BUILDING SECTION	CONSTRUCTION TYPE	RCN	AYB	EYB	DEP TYPE	PHYS	ECON	FUNC	OBSV / %	TOTAL DEP %	RCNLD	U.FACTOR	MKT VAL
95374-1-2015	Commercial	18,773	2002		MS	69.00	0.00	0.00	0.00	69.00	5,820	1.00	5,820

AREA	750
STORIES	1.0
PERIMETER / SHAPE	130

OCCUPANCIES	AREA	%	CLASS	HEIGHT	QUAL
378 Stable	750	100.00	D	9.00	1.00

COMPONENTS	Units	%	QUAL
C1 894 Stud -Textured Plywood		100.00	



[Click for larger picture]

Horse Stable. One story wood frame; 9' height; has dirt floor; no heating or A/C. Measured on 04/14/2003; unable to photograph ("memory card full"). Two horses present on this day; one was being ridden by a young lady.

**2015 Chatham County Board of Assessors**  
**Property Record Card**

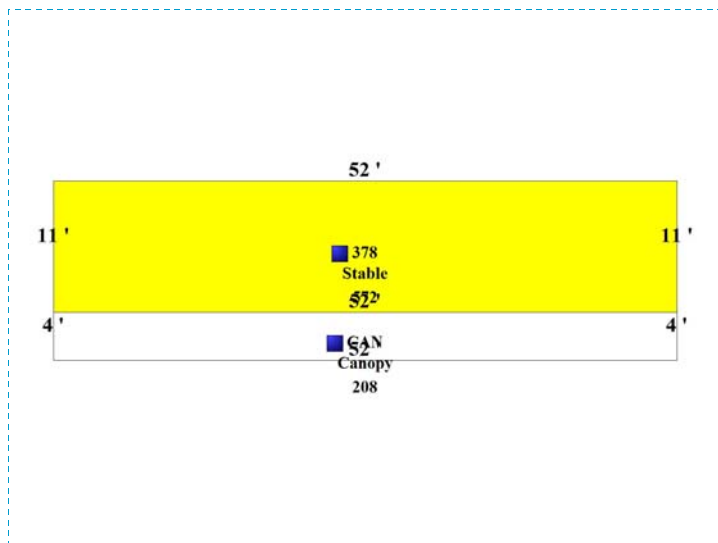
**6-0737-01-010**  
**8 TELFAIR PL SAVANNAH**

BUILDING SECTION	CONSTRUCTION TYPE	RCN	AYB	EYB	DEP TYPE	PHYS	ECON	FUNC	OBSV / %	TOTAL DEP %	RCNLD	U.FACTOR	MKT VAL
95375-1-2015	Commercial	15,879	2002		MS	69.00	0.00	0.00	0.00	69.00	4,922	1.00	4,922

AREA	572
STORIES	1.0
PERIMETER / SHAPE	126

OCCUPANCIES	AREA	%	CLASS	HEIGHT	QUAL
378 Stable	572	100.00	D	9.00	1.00

COMPONENTS	Units	%	QUAL
C1 894 Stud -Textured Plywood		100.00	



[Click for larger picture]

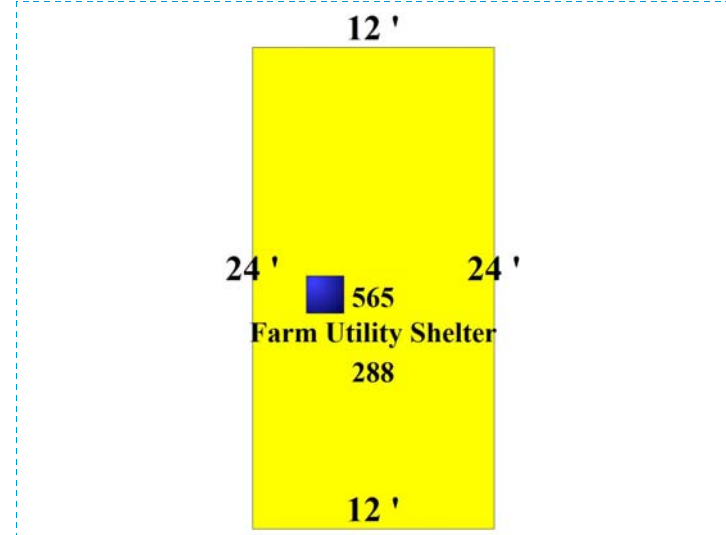
Horse Stable. One story wood frame; 9' height; has dirt floor; no heating or A/C. Measured on 04/14/2003; unable to photograph ("memory card full").



**2015 Chatham County Board of Assessors**  
**Property Record Card**

**6-0737-01-010**  
**8 TELFAIR PL SAVANNAH**

<b>BUILDING SECTION</b> 95376-1-2015	CONSTRUCTION TYPE Commercial	RCN 1,040	AYB 2002	EYB MS	DEP TYPE	PHYS 69.00	ECON 0.00	FUNC 0.00	OBSV / % 0.00	TOTAL DEP % 69.00	RCNLD 322	U.FACTOR 1.00	MKT VAL 322
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[Click for larger picture]

AREA	288
STORIES	1.0
PERIMETER / SHAPE	72

OCCUPANCIES	AREA	%	CLASS	HEIGHT	QUAL
565 Farm Utility Shelter	288	100.00	D	9.00	2.00

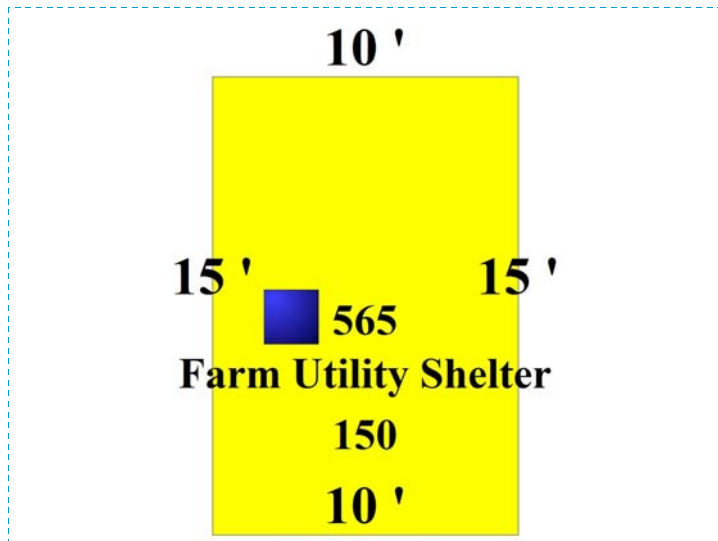
COMPONENTS	Units	%	QUAL
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Farm Shelter. Roof only supported by four posts; no walls; dirt floor; two overhead fans; two fluorescent lights. Measured on 04/14/2003; unable to photograph ("memory card full").

**2015 Chatham County Board of Assessors**  
**Property Record Card**

**6-0737-01-010**  
**8 TELFAIR PL SAVANNAH**

<b>BUILDING SECTION</b> 95377-1-2015	CONSTRUCTION TYPE Commercial	RCN 642	AYB 2002	EYB MS	DEP TYPE	PHYS 69.00	ECON 0.00	FUNC 0.00	OBSV / % 0.00	TOTAL DEP % 69.00	RCNLD 199	U.FACTOR 1.00	MKT VAL 199
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[Click for larger picture]

AREA	150
STORIES	1.0
PERIMETER / SHAPE	50

OCCUPANCIES	AREA	%	CLASS	HEIGHT	QUAL
565 Farm Utility Shelter	150	100.00	S	9.00	2.00

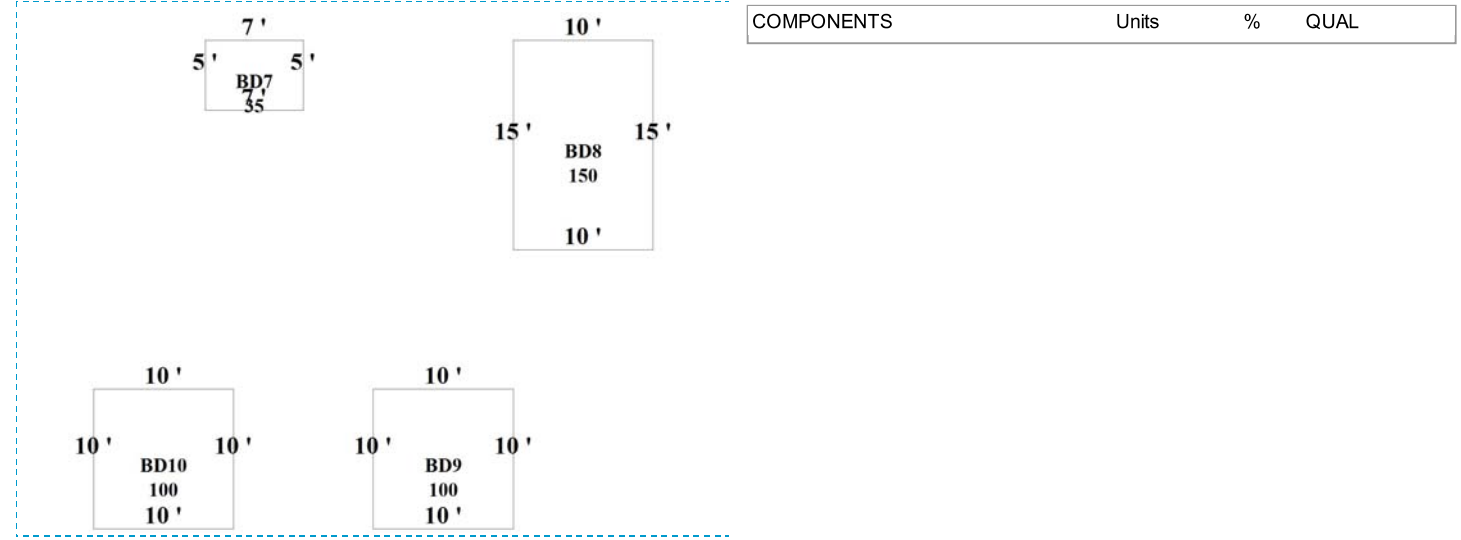
COMPONENTS	Units	%	QUAL
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Farm Shelter. Roof only supported by four posts; no walls; dirt floor; metal roof only. Measured on 04/14/2003; unable to photograph ("memory card full").

**2015 Chatham County Board of Assessors**  
**Property Record Card**

**6-0737-01-010**  
**8 TELFAIR PL SAVANNAH**

<b>BUILDING SECTION</b> 95378-1-2015	<b>CONSTRUCTION TYPE</b> Drawing Only	<b>RCN</b> NaN	<b>AYB</b> NaN	<b>EYB</b> MS	<b>DEP TYPE</b> MS	<b>PHYS</b> 0,00	<b>ECON</b> 0,00	<b>FUNC</b> 0,00	<b>OBSV / %</b> 0,00	<b>TOTAL DEP %</b> NaN	<b>RCNLD</b> NaN	<b>U.FACTOR</b> NaN	<b>MKT VAL</b> NaN
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[Click for larger picture]

BD7 is valued as "MISC" Item #10. BD8 is valued as "MISC" Item #11. BD9 is valued as "MISC" Item #12. BD10 is valued as "MISC" Item #13. Measured on 04/14/2003; unable to photograph ("memory card full").

**APPENDIX C**

**BORING LOGS**

PROJECT: <b>Precision Protective Coatings</b>		Log of Boring No. <b>MW-1</b>	
SITE LOCATION: Savannah, GA		TOP OF CASING ELEVATION (ft): 12.38	
DRILLING CONTRACTOR: Atlas-Geo Sampling		DATE STARTED: 6/8/2015	DATE FINISHED: 6/8/2015
DRILLING METHOD: Direct Push		TOTAL DEPTH (ft.): 14.12	SCREEN INTERVAL (ft.): 4.12-14.12
DRILLING EQUIPMENT: AMS Powerprobe		DEPTH TO WATER AT TIME OF BORING (ft.): 1.98	CASING (ft.): 0-4.12
SAMPLING METHOD: Macrocore w/ Acetate Liner		BOREHOLE DIAMETER (In.): 3	WELL DIAMETER (In.): 0.75

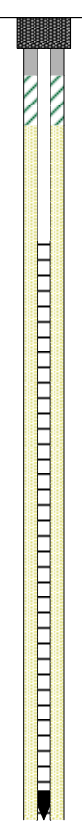
LOGGED BY: William Crowe

DEPTH (feet)	SAMPLES		PID Reading	DESCRIPTION	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS	
	Sample No. Location	Blows/ Foot				
Ground Surface Elevation (ft): 12.38						
0	15159-SB-1-2			Dark brown sand (backfill)		
0.4				Dark brown, gray clay sand		
1.5				Dark brown, gray clay sand		
0.8				Saturated loamy sand		
0.3				Saturated loamy sand		
10				0.3	Saturated loamy sand	
15				1.5	Dark gray sand	
20				0.8	Dark gray sand	



PROJECT: <b>Precision Protective Coatings</b>		Log of Boring No. <b>MW-2</b>	
SITE LOCATION: Savannah, GA		TOP OF CASING ELEVATION (ft): 13.87	
DRILLING CONTRACTOR: Atlas-Geo Sampling		DATE STARTED: 6/8/2015	DATE FINISHED: 6/8/2015
DRILLING METHOD: Direct Push		TOTAL DEPTH (ft.): 13.86	SCREEN INTERVAL (ft.): 3.86-13.86
DRILLING EQUIPMENT: AMS Powerprobe		DEPTH TO WATER AT TIME OF BORING (ft.): 4.44	CASING (ft.): 0-3.86
SAMPLING METHOD: Macrocore w/ Acetate Liner		BOREHOLE DIAMETER (In.): 3	WELL DIAMETER (In.): 0.75

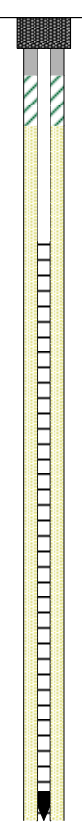
LOGGED BY: William Crowe

DEPTH (feet)	SAMPLES		PID Reading	DESCRIPTION	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
	Sample No. Location	Blows/ Foot			
Ground Surface Elevation (ft): 13.87					
0	15159-SB-5-2	[Red Box]		Dark brown sand (backfill)	 <p>4-inch diameter flush-mounted well vault Grout Bentonite  Filter Sand</p>
1.1				Dark gray clay	
5			0.6		
10			1.4	0.3	
15			1.3		
			0.4		
			0.8		



PROJECT: <b>Precision Protective Coatings</b>		Log of Boring No. <b>MW-3</b>	
SITE LOCATION: Savannah, GA		TOP OF CASING ELEVATION (ft): 13.51	
DRILLING CONTRACTOR: Atlas-Geo Sampling		DATE STARTED: 6/8/2015	DATE FINISHED: 6/8/2015
DRILLING METHOD: Direct Push		TOTAL DEPTH (ft.): 13.87	SCREEN INTERVAL (ft.): 3.87-13.87
DRILLING EQUIPMENT: AMS Powerprobe		DEPTH TO WATER AT TIME OF BORING (ft.): 3.95	CASING (ft.): 0-3.87
SAMPLING METHOD: Macrocore w/ Acetate Liner		BOREHOLE DIAMETER (In.): 3	WELL DIAMETER (In.): 0.75

LOGGED BY: William Crowe

DEPTH (feet)	SAMPLES		PID Reading	DESCRIPTION	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
	Sample No. Location	Blows/ Foot			
Ground Surface Elevation (ft): 13.51					
0	15159-SB-6-2	[Red bar]	1.6	Dark brown sand (backfill)	 <p>4-inch diameter flush-mounted well vault Grout Bentonite Filter Sand</p>
			0.2	Brown clayey sand	
5			0.2	Light gray clay	
			1.2		
			0.4		
10			0.7	Wet loamy sand	
	0.8				
	0.7				
15					
20					



PROJECT: <b>Precision Protective Coatings</b>		Log of Boring No. <b>MW-4</b>	
SITE LOCATION: Savannah, GA		TOP OF CASING ELEVATION (ft): 13.41	
DRILLING CONTRACTOR: Atlas-Geo Sampling		DATE STARTED: 6/8/2015	DATE FINISHED: 6/8/2015
DRILLING METHOD: Direct Push		TOTAL DEPTH (ft.): 14.8	SCREEN INTERVAL (ft.): 4.8-14.8
DRILLING EQUIPMENT: AMS Powerprobe		DEPTH TO WATER AT TIME OF BORING (ft.): 3.8	CASING (ft.): 0-4.8
SAMPLING METHOD: Macrocore w/ Acetate Liner		BOREHOLE DIAMETER (In.): 3	WELL DIAMETER (In.): 0.75

LOGGED BY: William Crowe

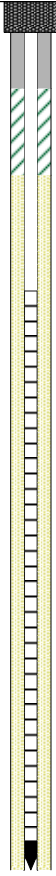
DEPTH (feet)	SAMPLES		PID Reading	DESCRIPTION	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
	Sample No. Location	Blows/ Foot			
Ground Surface Elevation (ft): 13.41					
0				Gravel	4-inch diameter flush-mounted well vault Grout Bentonite  Filter Sand
	15159-SB-7-2		0.6	Gray sandy clay	
5			0.6	Gray, red sandy clay	
			1.4		
			0.4		
10			0.9	Saturated, gray loamy sand	
			1.4		
15			0.7		





PROJECT: <b>Precision Protective Coatings</b>		Log of Boring No. <b>MW-5</b>	
SITE LOCATION: Savannah, GA		TOP OF CASING ELEVATION (ft): 13.75	
DRILLING CONTRACTOR: Atlas-Geo Sampling		DATE STARTED: 6/8/2015	DATE FINISHED: 6/8/2015
DRILLING METHOD: Direct Push		TOTAL DEPTH (ft.): 15	SCREEN INTERVAL (ft.): 5-15
DRILLING EQUIPMENT: AMS Powerprobe		DEPTH TO WATER AT TIME OF BORING (ft.): 4.27	CASING (ft.): 0-5
SAMPLING METHOD: Macrocore w/ Acetate Liner		BOREHOLE DIAMETER (In.): 3	WELL DIAMETER (In.): 0.75

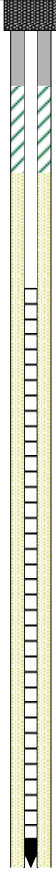
LOGGED BY: William Crowe

DEPTH (feet)	SAMPLES		PID Reading	DESCRIPTION	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
	Sample No. Location	Blows/ Foot			
Ground Surface Elevation (ft): 13.75					
0				Concrete	 <p>4-inch diameter flush-mounted well vault Grout Bentonite Filter Sand</p>
3.7	15159-SB-8-2			Dark gray clay	
2.3				Wet sandy clay	
3.1				Saturated clayey sand	
6.2				Saturated, gray loamy sand	
0.6					
1.4					



PROJECT: <b>Precision Protective Coatings</b>		Log of Boring No. <b>MW-6</b>	
SITE LOCATION: Savannah, GA		TOP OF CASING ELEVATION (ft): 14.71	
DRILLING CONTRACTOR: Atlas-Geo Sampling		DATE STARTED: 6/8/2015	DATE FINISHED: 6/8/2015
DRILLING METHOD: Direct Push		TOTAL DEPTH (ft.): 14.99	SCREEN INTERVAL (ft.): 4.99-14.99
DRILLING EQUIPMENT: AMS Powerprobe		DEPTH TO WATER AT TIME OF BORING (ft.): 3.42	CASING (ft.): 0-4.99
SAMPLING METHOD: Macrocore w/ Acetate Liner		BOREHOLE DIAMETER (In.): 3	WELL DIAMETER (In.): 0.75

LOGGED BY: William Crowe

DEPTH (feet)	SAMPLES		PID Reading	DESCRIPTION	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
	Sample No. Location	Blows/ Foot			
Ground Surface Elevation (ft): 14.71					
0	15159-SB-12-2	[Red Box]			 <p>4-inch diameter flush-mounted well vault Grout Bentonite  Filter Sand</p>
			1.9	Dark grey, brown sand with organic material	
			1.1		
5			1.2	Iron-stained, reddish gray clay	
			1.7	Saturated loamy sand	
			2.2	Saturated gray sand	
	1.1	Saturated loamy sand w/ clay			
	1.3				
15					
20					



PROJECT:	<b>Precision Protective Coating</b>	Log of Boring No.	<b>MW-7/SB-13</b>
SITE LOCATION:	Savannah, GA	TOP OF CASING ELEVATION (ft.):	N/A
DRILLING CONTRACTOR:	Atlas-Geo	DATE STARTED:	8/17/2015
		DATE FINISHED:	8/17/2015
DRILLING METHOD:	Direct Push	TOTAL DEPTH (ft.):	16
		SCREEN INTERVAL (ft.):	6-16
DRILLING EQUIPMENT:	Geo-Probe	DEPTH TO WATER AT TIME OF BORING (ft.):	~12
		CASING (ft.):	0-6
SAMPLING METHOD:	Macrocore Liner	BOREHOLE DIAMETER (In.):	3
		WELL DIAMETER (In.):	1

LOGGED BY: William Crowe

DEPTH (feet)	SAMPLES			PID Reading	DESCRIPTION	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
	Sample No.	Location	Blows/ Foot			
0					Ground Surface Elevation (ft): N/A	
0 - 2	15229-SB-13-2				Reddish brown, gray clay with sand	
2 - 5					Gray clay with red mottling	
5 - 8					Gray, light tan clay with sand	
8 - 11					Light tan clayey sand	
11 - 16					Light to dark gray clayey sand (saturated @ 12')	
16 - 20						Boring terminated at 16 ft bgs. 1-inch PVC well installed.



PROJECT:	<b>Precision Protective Coating</b>	Log of Boring No.	<b>MW-8/SB-14</b>
SITE LOCATION:	Savannah, GA	TOP OF CASING ELEVATION (ft):	N/A
DRILLING CONTRACTOR:	Atlas-Geo	DATE STARTED:	8/17/2015
		DATE FINISHED:	8/17/2015
DRILLING METHOD:	Direct Push	TOTAL DEPTH (ft.):	16
		SCREEN INTERVAL (ft.):	6-16
DRILLING EQUIPMENT:	Geo-Probe	DEPTH TO WATER AT TIME OF BORING (ft.):	~12
		CASING (ft.):	0-6
SAMPLING METHOD:	Macrocore Liner	BOREHOLE DIAMETER (In.):	3
		WELL DIAMETER (In.):	1
LOGGED BY:	William Crowe		

DEPTH (feet)	SAMPLES			PID Reading	DESCRIPTION	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
	Sample No.	Location	Blows/Foot			
0					Ground Surface Elevation (ft): N/A	
0 - 2.5	15229-SB-14-2				Dark brown clayey sand	
2.5 - 8.5					Brownish red clay	
8.5 - 11.5					Brown sandy clay	
11.5 - 13.5					Fine gray sand (saturated at 12')	
13.5 - 16					Gray clayey sand (saturated)	
16 - 20						Boring terminated at 16 ft bgs. 1-inch PVC well installed.




PROJECT: <b>Precision Protective Coating</b>		Log of Boring No. <b>MW-9/SB-18</b>	
SITE LOCATION: Savannah, GA		TOP OF CASING ELEVATION (ft): N/A	
DRILLING CONTRACTOR: Atlas-Geo		DATE STARTED: 8/17/2015	DATE FINISHED: 8/17/2015
DRILLING METHOD: Direct Push		TOTAL DEPTH (ft.): 16	SCREEN INTERVAL (ft.): 6-16
DRILLING EQUIPMENT: Geo-Probe		DEPTH TO WATER AT TIME OF BORING (ft.): ~12	CASING (ft.): 0-6
SAMPLING METHOD: Macrocore Liner		BOREHOLE DIAMETER (In.): 3	WELL DIAMETER (In.): 1
LOGGED BY: William Crowe			

DEPTH (feet)	SAMPLES			PID Reading	DESCRIPTION	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
	Sample No.	Location	Blows/Foot			
0					Ground Surface Elevation (ft): N/A	
0 - 2	15229-SB-18-2				Dark brown sandy clay	
2 - 4					Dark brown, red clay	
4 - 6					Light brown, gray clay	
6 - 8					Light gray, tan sandy clay	
8 - 11					Tan sand with clay (saturated @ 12')	
11 - 14					Dark gray sand (saturated)	
14 - 16						Boring terminated at 16 ft bgs. 1-inch PVC well installed.



PROJECT:	<b>Precision Protective Coating</b>	Log of Boring No.	<b>MW-10/SB-19</b>
SITE LOCATION:	Savannah, GA	TOP OF CASING ELEVATION (ft.):	N/A
DRILLING CONTRACTOR:	Atlas-Geo	DATE STARTED:	8/17/2015
		DATE FINISHED:	8/17/2015
DRILLING METHOD:	Direct Push	TOTAL DEPTH (ft.):	16
		SCREEN INTERVAL (ft.):	6-16
DRILLING EQUIPMENT:	Geo-Probe	DEPTH TO WATER AT TIME OF BORING (ft.):	~12
		CASING (ft.):	0-6
SAMPLING METHOD:	Macrocore Liner	BOREHOLE DIAMETER (In.):	3
		WELL DIAMETER (In.):	1

LOGGED BY: William Crowe

DEPTH (feet)	SAMPLES			PID Reading	DESCRIPTION	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
	Sample No.	Location	Blows/Foot			
Ground Surface Elevation (ft):					N/A	
0	15229-SB-19-2	[Red Box]			Dark brown sand with clay	
5					Gray clay with red mottling	
10					Gray clayey sand	
15					Brown sand (saturated @ 12')	
20						Boring terminated at 16 ft bgs. 1-inch PVC well installed.



PROJECT:	<b>Precision Protective Coating</b>	Log of Boring No.	<b>MW-11/SB-20</b>
SITE LOCATION:	Savannah, GA	TOP OF CASING ELEVATION (ft):	N/A
DRILLING CONTRACTOR:	Atlas-Geo	DATE STARTED:	8/17/2015
		DATE FINISHED:	8/18/2015
DRILLING METHOD:	Direct Push	TOTAL DEPTH (ft.):	16
		SCREEN INTERVAL (ft.):	6-16
DRILLING EQUIPMENT:	Geo-Probe	DEPTH TO WATER AT TIME OF BORING (ft.):	~12
		CASING (ft.):	0-6
SAMPLING METHOD:	Macrocore Liner	BOREHOLE DIAMETER (In.):	3
		WELL DIAMETER (In.):	1

LOGGED BY: William Crowe

DEPTH (feet)	SAMPLES			PID Reading	DESCRIPTION	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
	Sample No.	Location	Blows/Foot			
0					Ground Surface Elevation (ft): N/A	
0 - 2.4	15229-SB-20-2				Gravel	
2.4 - 1.8					Gray clay with red mottling	
1.8 - 5.5					Dark brown sandy clay	
5.5 - 1.4					Bluish gray clay	
1.4 - 4.6					Reddish gray sand with clay (saturated @ 12')	
4.6 - 1.7					Grayish tan clayey sand (saturated)	
1.7 - 3.2						
3.2 - 1.5						
1.5 - 16						Boring terminated at 16 ft bgs. 1-inch PVC well installed.



PROJECT:	<b>Precision Protective Coating</b>		Log of Boring No.	<b>MW-12/SB-23</b>	
SITE LOCATION:	Savannah, GA		TOP OF CASING ELEVATION (ft.):	N/A	
DRILLING CONTRACTOR:	Atlas-Geo		DATE STARTED:	8/17/2015	DATE FINISHED:
DRILLING METHOD:	Direct Push		TOTAL DEPTH (ft.):	16	SCREEN INTERVAL (ft.):
DRILLING EQUIPMENT:	Geo-Probe		DEPTH TO WATER AT TIME OF BORING (ft.):	~12	CASING (ft.):
SAMPLING METHOD:	Macrocore Liner		BOREHOLE DIAMETER (In.):	3	WELL DIAMETER (In.):
LOGGED BY:	William Crowe				

DEPTH (feet)	SAMPLES			PID Reading	DESCRIPTION	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
	Sample No.	Location	Blows/Foot			
0					Ground Surface Elevation (ft): N/A	
0 - 2	15229-SB-23-2				Dark brown, black sand	
2 - 8					Reddish brown sandy clay	
8 - 16					Reddish gray clayey sand (saturated @ 12')	
16 - 20						Boring terminated at 16 ft bgs. 1-inch PVC well installed.





PROJECT:	<b>Precision Protective Coating</b>	Log of Boring No.	<b>MW-13/SB-25</b>
SITE LOCATION:	Savannah, GA	TOP OF CASING ELEVATION (ft.):	N/A
DRILLING CONTRACTOR:	Atlas-Geo	DATE STARTED:	8/17/2015
		DATE FINISHED:	8/17/2015
DRILLING METHOD:	Direct Push	TOTAL DEPTH (ft.):	16
		SCREEN INTERVAL (ft.):	6-16
DRILLING EQUIPMENT:	Geo-Probe	DEPTH TO WATER AT TIME OF BORING (ft.):	~12
		CASING (ft.):	0-6
SAMPLING METHOD:	Macrocore Liner	BOREHOLE DIAMETER (In.):	3
		WELL DIAMETER (In.):	1

LOGGED BY: William Crowe

DEPTH (feet)	SAMPLES			PID Reading	DESCRIPTION	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
	Sample No.	Location	Blows/Foot			
0					Ground Surface Elevation (ft): N/A	
0 - 2	15229-SB-25-2				Reddish brown clayey sand with small gravel	
2 - 6					Dark brown clayey sand	
6 - 12					Reddish gray sandy clay	
12 - 16					Reddish gray clayey sand (saturated @ 12')	
16 - 20						Boring terminated at 16 ft bgs. 1-inch PVC well installed.



PROJECT: <b>Precision Protective Coatings</b>		Log of Boring No. <b>MW-14</b>	
SITE LOCATION: Savannah, GA		TOP OF CASING ELEVATION (ft): N/A	
DRILLING CONTRACTOR: Atlas Geo		DATE STARTED: 10/26/2015	DATE FINISHED: 10/26/2015
DRILLING METHOD: Direct Push		TOTAL DEPTH (ft.): 18	SCREEN INTERVAL (ft.): 8-18
DRILLING EQUIPMENT: Power Probe 9635		DEPTH TO WATER AT TIME OF BORING (ft.): NM	CASING (ft.): 0-8
SAMPLING METHOD: Macrocore w/ Acetate Liner		BOREHOLE DIAMETER (In.): 2	WELL DIAMETER (In.): 0.75

LOGGED BY: Marie Weber-Goeke & Brian Goldman

DEPTH (feet)	SAMPLES		PID Reading	DESCRIPTION	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
	Sample No.	Location			
0				Ground Surface Elevation (ft): N/A	
0 - 1	15299-SB-27			Red-orange clay	
1 - 1.5				Wood	
1.5 - 8				Gray, orange clay	
8 - 16				Gray clay	
16 - 20				No recovery	
20 - 25					10' pre-packed screen  Boring terminated at ~ 20 ft. bgs. Well set at ~18 ft. bgs after borehole collapsed.



PROJECT:	<b>Precision Protective Coatings</b>	Log of Boring No.	<b>MW-15</b>
SITE LOCATION:	Savannah, GA	TOP OF CASING ELEVATION (ft):	N/A
DRILLING CONTRACTOR:	Atlas Geo	DATE STARTED:	10/26/2015
DRILLING METHOD:	Direct Push	DATE FINISHED:	10/26/2015
DRILLING EQUIPMENT:	Power Probe 9635	TOTAL DEPTH (ft.):	18
SAMPLING METHOD:	Macrocore w/ Acetate Liner	DEPTH TO WATER AT TIME OF BORING (ft.):	NM
		SCREEN INTERVAL (ft.):	8-18
		CASING (ft.):	0-8
		BOREHOLE DIAMETER (In.):	2
		WELL DIAMETER (In.):	0.75

LOGGED BY: Marie Weber-Goeke & Brian Goldman

DEPTH (feet)	SAMPLES		PID Reading	DESCRIPTION	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
	Sample No.	Location			
0				Ground Surface Elevation (ft): N/A	
0 - 1.5	15295-SB-26			Brown silty sand	
1.5 - 3.5				Gray clay with orange streaks	
3.5 - 11.5				Gray, orange clay	
11.5 - 13.5				Orange, gray clay	
13.5 - 15.5				Thick gray clay	
15.5 - 16.5				Gray sand	
16.5 - 18.5				Gray clayey sand	
18.5 - 20.5				Gray sand	
20.5 - 22.5				Gray sand with clay	
22.5 - 24.5				Gray sand	
24.5 - 25.5					

10' pre-packed screen

Boring terminated at ~ 24 ft. bgs. Well set at ~18 ft. bgs after borehole collapsed.



PROJECT: <b>Precision Protective Coatings</b>		Log of Boring No. <b>MW-16</b>	
SITE LOCATION: Savannah, GA		TOP OF CASING ELEVATION (ft): N/A	
DRILLING CONTRACTOR: Atlas Geo	DATE STARTED: 10/26/2015	DATE FINISHED: 10/26/2015	
DRILLING METHOD: Direct Push	TOTAL DEPTH (ft.): 17.5	SCREEN INTERVAL (ft.): 7.5-17.5	
DRILLING EQUIPMENT: Power Probe 9635	DEPTH TO WATER AT TIME OF BORING (ft.): NM	CASING (ft.): 0-7.5	
SAMPLING METHOD: Macrocore w/ Acetate Liner	BOREHOLE DIAMETER (In.): 2	WELL DIAMETER (In.): 0.75	

LOGGED BY: Marie Weber-Goeke & Brian Goldman

DEPTH (feet)	SAMPLES		PID Reading	DESCRIPTION	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
	Sample No.	Location			
0				Ground Surface Elevation (ft): N/A	
0 - 2.5	15299-SB-28			Light brown sand	
2.5 - 14.5				Gray, orange clay	10' pre-packed screen
14.5 - 18				Thick gray clay	
18 - 20				Light brown sand with clay	
20 - 25					Boring terminated at ~ 20 ft. bgs. Well set at ~17.5 ft. bgs after borehole collapsed.



## **APPENDIX D**

# **RISK REDUCTION STANDARDS WORKSHEETS**

**Table 1. Georgia Specific Values**

Parameter	CASText	HSRA NC (mg/kg)	Table 2 Soil (mg/kg)	Table 1 GW (mg/L)	GA MCL (mg/L)
2-Butanone (MEK)	78-93-3	0.79		2	
4-Methyl-2-pentanone	108-10-1	3.3		2	
4-Methylphenol	106-44-5	3.8			
Acetone	67-64-1	2.74		4	
Barium	7440-39-3	500	1000	2	2
Benzo(a)anthracene	56-55-3	5		0.0001	
Benzo(a)pyrene	50-32-8	1.64		0.0002	0.0002
Benzo(b)fluoranthene	205-99-2	5		0.0002	
Benzo(g,h,i)perylene	191-24-2	500			
bis(2-Ethylhexyl) phthalate	117-81-7	50		0.006	0.006
Chromium	7440-47-3	1200	100	0.1	0.1
Chrysene	218-01-9	5		0.0002	
Ethyl benzene	100-41-4	20		0.7	0.7
Fluoranthene	206-44-0	500		1	
Lead	7439-92-1	400	75	0.015	
Nickel	744-00-2	420	50	0.1	0.1
Pyrene	129-00-0	500		1	
Toluene	108-88-3	14.4		1	1
Zinc	7440-66-6	2800	100	2	

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

NC: Notification Concentration - Appendix I of the Rules

Table 2 Soil: Appendix III Table 2 of the Rules

Table 1 GW: Appendix III Table 1 of the Rules

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

Table 2. Physical-Chemical Parameters

Analyte	CAS	Organic Carbon Partition Coefficient (K <sub>oc</sub> ) (cm <sup>3</sup> /g)	Diffusivity in air (D <sub>a</sub> ) (cm <sup>2</sup> /s)	Henry's Law Constant (H') (unitless)	Henry's Law Constant at reference temperature of 25°C (H) (atm-m <sup>3</sup> /mol)	Volatile	Metal Kd	Kd Reference	Dei = D <sub>a</sub> x E <sup>0.33</sup>	Kd = Koc x OC	Kas = (H/Kd) x 41	α (cm <sup>2</sup> /s)	VF (m <sup>3</sup> /kg)
2-Butanone (MEK)	78-93-3	4.5	EPI 0.091	EPA WATER9	0.0023	0.000057	PHYSPROP	V	0.065	0.090	0.026	0.00034	7,802
4-Methyl-2-pentanone	108-10-1	13	EPI 0.070	EPA WATER9	0.0056	0.00014	EPI	V	0.049	0.25	0.022	0.00022	9,590
4-Methylphenol	106-44-5	300	EPI 0.072	EPA WATER9	0.000041	0.000010	PHYSPROP		0.051	6.0	0.0000068	0.000000071	541,271
Acetone	67-64-1	2.4	EPI 0.11	EPA WATER9	0.0014	0.000035	PHYSPROP	V	0.075	0.047	0.030	0.00046	6,689
Barium	7440-39-3						41	SSL					
Benzo(a)anthracene	56-55-3	176,900	EPI 0.026	EPA WATER9	0.00049	0.000012	PHYSPROP	V	0.018	3,538	0.00000014	5.2E-10	6,313,262
Benzo(a)pyrene	50-32-8	587,400	EPI 0.048	EPA WATER9	0.000019	0.00000046	PHYSPROP		0.034	11,748	1.6E-09	1.1E-11	43,671,496
Benzo(b)fluoranthene	205-99-2	599,400	EPI 0.048	EPA WATER9	0.000027	0.00000066	PHYSPROP		0.034	11,988	2.2E-09	1.5E-11	36,792,973
Benzo(g,h,i)perylene	191-24-2												
bis(2-Ethylhexyl) phthalate	117-81-7	119,600	EPI 0.017	EPA WATER9	0.000011	0.00000027	EPI		0.012	2,392	4.6E-09	1.2E-11	42,468,896
Chromium	7440-47-3						1,800,000	SSL					
Chromium III	16065-83-1						1,800,000	SSL					
Chromium, hexavalent	18540-29-9						19	SSL					
Chrysene	218-01-9	180,500	EPI 0.026	EPA WATER9	0.00021	0.0000052	PHYSPROP		0.018	3,610	0.000000059	2.2E-10	9,659,803
Ethyl benzene	100-41-4	446	EPI 0.068	EPA WATER9	0.32	0.0079	PHYSPROP	V	0.048	8.9	0.036	0.00035	7,613
Fluoranthene	206-44-0	55,450	EPI 0.028	EPA WATER9	0.00036	0.0000089	PHYSPROP		0.020	1,109	0.000000033	1.3E-09	4,001,555
Lead	7439-92-1						900	BAES					
Nickel	7440-02-0						65	SSL					
Pyrene	129-00-0	54,340	EPI 0.028	EPA WATER9	0.00049	0.000012	PHYSPROP	V	0.020	1,087	0.000000045	1.8E-09	3,406,267
Toluene	108-88-3	234	EPI 0.078	EPA WATER9	0.27	0.0066	PHYSPROP	V	0.055	4.7	0.058	0.00064	5,621
Zinc	7440-66-6						62	SSL					

Metal Kd values taken from EPA Soil Screening Guidance (SSG) assuming a pH of 7

SSL: Soil Screening Levels taken from SSG

EPI: EPA's Estimation Programs Interface Suite

WATER9: EPA's WATER9 Program

PHYSPROP: Syracuse Research Corporation PHYSPROP Database. 2005

ATSDR Profile: Agency for Toxic Substances & Disease Registry Toxicological Profiles

BAES: C.F. Baes, A Review and Analysis of Parameters for Assessing Transport of Environmentally Released Radionuclides through Agriculture. 1984

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

LS = 45 m length of side of contaminated area  
 V = 2.25 m/s wind speed in mixing zone  
 DH = 2 m diffusion height  
 A = 20300000 cm<sup>2</sup> area of contamination  
 π = 3.14  
 $\alpha = \frac{(D_{ei} \times E)}{E + \rho_s(1-E)/K_{as}}$  cm<sup>2</sup>/s  
 D<sub>ei</sub> = D<sub>i</sub> x E<sup>0.33</sup> cm<sup>2</sup>/s effective diffusivity  
 D<sub>i</sub> = Chemical specific molecular diffusivity (cm<sup>2</sup>/s)  
 E = 0.35 total soil porosity  
 ρ<sub>s</sub> = 2.65 g/m<sup>3</sup> density of soil solids  
 K<sub>as</sub> = (H/Kd) x 41 soil/air partition coefficient (g soil/cm<sup>3</sup> air)  
 H = Chemical specific Henry's law constant (atm-m<sup>3</sup>/mol)  
 Kd = Koc x OC soil-water partition coefficient  
 Koc = Chemical specific organic carbon partition coefficient  
 OC = 0.02 soil organic carbon content fraction  
 T = 790000000 s exposure interval

Table 3. Toxicity Factors

Analyte	CAS	NonCancer Toxicity Values			Cancer Toxicity Values				
		Oral RfD (mg/kg-day)	Inhalation RFC (mg/m <sup>3</sup> )	Inhalation RfD (mg/kg-day)	Oral CSF (per mg/kg-day)	Inhalation Unit Risk (per ug/m <sup>3</sup> )	Inhalation CSF (per mg/kg-day)	Cancer Class	VOC
2-Butanone (MEK)	78-93-3	0.60	5.0	1.43					V
4-Methyl-2-pentanone	108-10-1		3.0	0.86					V
4-Methylphenol	106-44-5	0.10	0.60	0.17					
Acetone	67-64-1	0.90	31	8.9					V
Barium	7440-39-3	0.20	0.00050	0.00014				D	
Benzo(a)anthracene	56-55-3				0.73	0.00011	0.39	A	V
Benzo(a)pyrene	50-32-8				7.3	0.0011	3.9	A	
Benzo(b)fluoranthene	205-99-2				0.73	0.00011	0.39	A	
Benzo(g,h,i)perylene	191-24-2							D	
bis(2-Ethylhexyl) phthalate	117-81-7	0.02			0.014	0.0000024	0.0084	B2	
Chromium	7440-47-3								
Chromium III	16065-83-1	1.5							
Chromium, hexavalent	18540-29-9	0.0030	0.00010	0.000029	0.50	0.084	294		
Chrysene	218-01-9				0.0073	0.000011	0.039	A	
Ethyl benzene	100-41-4	0.10	1.0	0.29	0.011	0.0000025	0.0088		V
Fluoranthene	206-44-0	0.040						D	
Lead	7439-92-1							B2	
Nickel	7440-02-0	0.020	0.000090	0.000026		0.00026	0.91		
Pyrene	129-00-0	0.030						D	V
Toluene	108-88-3	0.080	5.0	1.4					V
Zinc	7440-66-6	0.30							

Values are from the EPA Regional Screening Level Summary Table (Nov 2015), except where noted



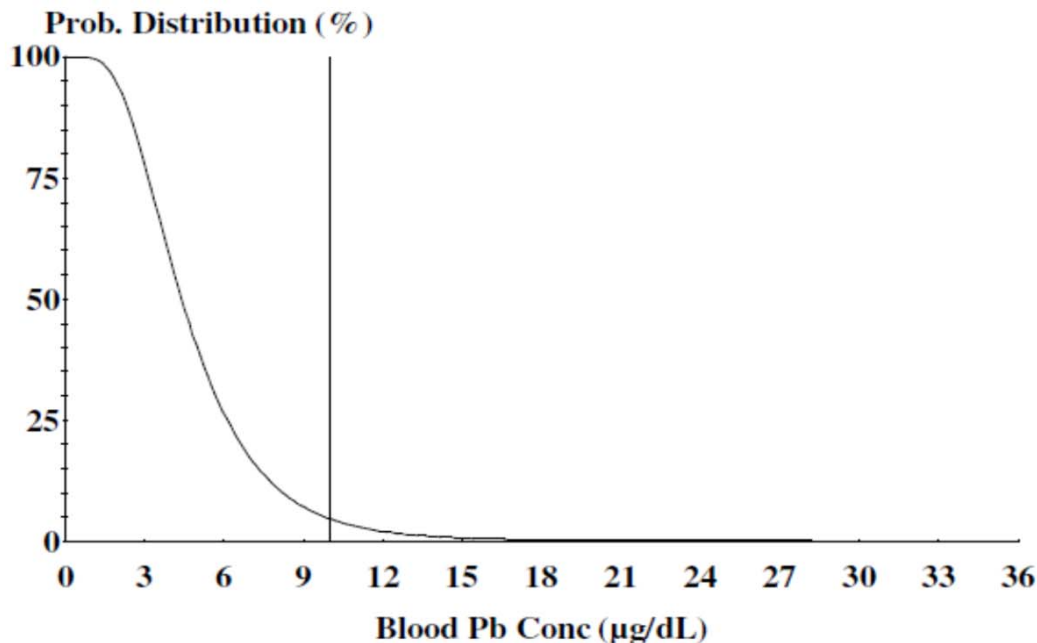
**Table 4 - Inputs to IEUBK Model (version 1.1 Build 11)**

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

**Notes:**

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

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



**Cutoff = 10.000 µg/dl**  
**Geo Mean = 4.615**  
**GSD = 1.600**  
**% Above = 4.995**

**Age Range = 0 to 84 months**

**Run Mode = Research**

**Table 5 - Georgia Adult Lead Model**

<b>Parameter</b>	<b>Value</b>	<b>Description</b>
R	0.9	Constant of proportionality between fetal blood lead concentration at birth and maternal blood lead concentration (unitless)
GSD	2.04	Geometric standard deviation of blood lead concentration among the exposed adult population , specifically women of child-bearing age (unitless)
PbBfetal	10	The blood lead goal for the unborn fetus, defined as the concentration which will have a 95% probability of not being exceeded ( $\mu\text{g/dL}$ )
PbB	3.44	calculated
PbBb	1.38	Typical blood lead concentration in adults, specifically women of child-bearing age, in the absence of exposures to the site that is being assessed ( $\mu\text{g/dL}$ ) [baseline]
BSF	0.4	Biokinetic slope factor relating (quasi-steady state) increase in typical adult blood lead concentration to average daily lead uptake ( $\mu\text{g/dL}$ per $\mu\text{g/day}$ )
EF	219	Exposure frequency for contact with assessed soils and/or dust derived in part from these soils (number of days of exposure during the year) (days/yr)
AT	365	Averaging time for continuing longterm exposures (days/yr)
Cw	10	Concentration of lead in ground water at site ( $\mu\text{g/L}$ ); provided, however, when taken together with concentrations of lead in soil shall not exceed a PbB of 10 $\mu\text{g/dL}$
Iw	1	Intake rate of water from on-site ground water (L/day)
Aw	0.2	Absolute gastrointestinal absorption fraction for lead ingested in drinking water (unitless)
Is	0.05	Intake rate of soil, predominantly occupational exposures to indoor soil-derived dust rather than outdoor soil (g/day)
As	0.12	Absolute gastrointestinal absorption fraction for ingested lead in soil and in dust derived from soil (unitless)
<b>Cs</b>	<b>1096</b>	<b>Calculated Soil Lead Concentration</b>

Table 6. Groundwater Risk Calculations

Analyte	CAS	Volatile	Oral CSF (per mg/kg-day)	Inhalation CSF (per mg/kg-day)	RAGS Eqn. 1								
					Adult			Child			Worker		
					Ingestion (mg/L)	Inhalation (mg/L)	Total (mg/L)	Ingestion (mg/L)	Inhalation (mg/L)	Total (mg/L)	Ingestion (mg/L)	Inhalation (mg/L)	Total (mg/L)
2-Butanone (MEK)	78-93-3	V											
4-Methyl-2-pentanone	108-10-1	V											
4-Methylphenol	106-44-5												
Acetone	67-64-1	V											
Barium	7440-39-3												
Benzo(a)anthracene	56-55-3	V	0.73	0.39	0.0012	0.00059	0.00039	0.0025	0.00063	0.00050	0.0039	0.00074	0.00062
Benzo(a)pyrene	50-32-8		7.3	3.9	0.00012		0.00012	0.00025		0.00025	0.00039		0.00039
Benzo(b)fluoranthene	205-99-2		0.73	0.39	0.0012		0.0012	0.0025		0.0025	0.0039		0.0039
Benzo(g,h,i)perylene	191-24-2												
bis(2-Ethylhexyl) phthalate	117-81-7		0.014	0.0084	0.061		0.061	0.13		0.13	0.20		0.20
Chromium	7440-47-3												
Chromium III	16065-83-1												
Chromium, hexavalent	18540-29-9		0.50	294	0.0017		0.0017	0.0037		0.0037	0.0057		0.0057
Chrysene	218-01-9		0.0073	0.039	0.12		0.12	0.25		0.25	0.39		0.39
Ethyl benzene	100-41-4	V	0.011	0.0088	0.077	0.026	0.019	0.17	0.028	0.024	0.26	0.033	0.029
Fluoranthene	206-44-0												
Lead	7439-92-1												
Nickel	7440-02-0			0.91									
Pyrene	129-00-0	V											
Toluene	108-88-3	V											
Zinc	7440-66-6												

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

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

Note: Inhalation pathway not calculated if not volatile

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

Parameter		Adult		Child		Worker	
		Value	Source	Value	Source	Value	Source
Body Weight, Adult (kg)	BW	70	1	15	2	70	1
Exposure Frequency, Resident Adult (d/yr)	EF	350	1	350	1	250	1
Exposure Duration, Resident Adult (yr)	ED	30	1	6	2	25	1
Soil Ingestion, Resident Adult (mg/d)	IRs	114	1	200	2	50	1
Water ingestion, Resident Adult (L/d)	IRw	2	1	1	1	1	1
Inhalation Rate, Resident Adult (m <sup>3</sup> /d)	IRa	15	1	15	2	20	1
Averaging Time, Cancer, Adult (d)	AT	25550	1	25550	1	25550	1
Target Risk	TR	1E-05	1	1E-05	1	1E-05	1
Water-to-air volatilization factor (L/m <sup>3</sup> )	K	0.5	1	0.5	1	0.5	1
Particulate Emission Factor (m <sup>3</sup> /kg)	PEF	4.63E+09	1	4.63E+09	1	4.63E+09	1

Notes:

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

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

Table 7. Groundwater Hazard Calculations

Analyte	CAS	Volatile	Oral RfD (mg/kg-day)	Inhalation RD (mg/kg-day)	RAGS Eqn. 2								
					Adult			Child			Worker		
					Ingestion (mg/L)	Inhalation (mg/L)	Total (mg/L)	Ingestion (mg/L)	Inhalation (mg/L)	Total (mg/L)	Ingestion (mg/L)	Inhalation (mg/L)	Total (mg/L)
2-Butanone (MEK)	78-93-3	V	0.60	1.4	22	14	8.5	9.4	3.0	2.3	61	15	12
4-Methyl-2-pentanone	108-10-1	V		0.86			8.3		1.8	1.8		8.8	8.8
4-Methylphenol	106-44-5		0.10	0.17	3.7		3.7	1.6		1.6	10		10
Acetone	67-64-1	V	0.90	8.9	33	86	24	14	18	8.0	92	91	46
Barium	7440-39-3		0.20	0.00014	7.3		7.3	3.1		3.1	20		20
Benzo(a)anthracene	56-55-3	V											
Benzo(a)pyrene	50-32-8												
Benzo(b)fluoranthene	205-99-2												
Benzo(g,h,i)perylene	191-24-2												
bis(2-Ethylhexyl) phthalate	117-81-7		0.020		0.73		0.73	0.31		0.31	2.0		2.0
Chromium	7440-47-3												
Chromium III	16065-83-1		1.5		55		55	23		23	153		153
Chromium, hexavalent	18540-29-9		0.0030	0.000029	0.11		0.11	0.047		0.047	0.31		0.31
Chrysene	218-01-9												
Ethyl benzene	100-41-4	V	0.10	0.29	3.7	2.8	1.6	1.6	0.60	0.43	10	2.9	2.3
Fluoranthene	206-44-0		0.040		1.5		1.5	0.63		0.63	4.1		4.1
Lead	7439-92-1												
Nickel	7440-02-0		0.020	0.000026	0.73		0.73	0.31		0.31	2.0		2.0
Pyrene	129-00-0	V	0.030		1.1		1.1	0.47		0.47	3.1		3.1
Toluene	108-88-3	V	0.080	1.4	2.9	13.9	2.4	1.3	3.0	0.88	8.2	15	5.2
Zinc	7440-66-6		0.30		11		11	4.7		4.7	31		31

Lead GSL based on Appendix III concentration

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

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

Note: Inhalation pathway not calculated if not volatile

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

Parameter		Adult		Child		Worker	
		Value	Source	Value	Source	Value	Source
Body Weight, Adult (kg)	BW	70	1	15	2	70	1
Exposure Frequency, Resident Adult (d/yr)	EF	350	1	350	1	250	1
Exposure Duration, Resident Adult (yr)	ED	30	1	6	2	25	1
Soil Ingestion, Resident Adult (mg/d)	IRs	114	1	200	2	50	1
Water ingestion, Resident Adult (L/d)	IRw	2	1	1	1	1	1
Inhalation Rate, Resident Adult (m <sup>3</sup> /d)	IRa	15	1	15	2	20	1
Averaging Time, Noncancer, Adult (d)	AT	10950	1	2190	1	9125	1
Target hazard quotient	THQ	1	1	1	1	1	1
Water-to-air volatilization factor (L/m3)	K	0.5	1	0.5	1	0.5	1
Particulate Emission Factor (m3/kg)	PEF	4.63E+09	1	4.63E+09	1	4.63E+09	1

Exposure Duration x 365 days

Notes:

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

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

Table 8. Soil Risk Calculations

Analyte	CAS	Volatile	VF	Oral CSF (per mg/kg-day)	Inhalation CSF (per mg/kg-day)	RAGS Eqn. 6								
						Adult			Child			Worker		
						Ingestion (mg/kg)	Inhalation (mg/kg)	Total (mg/kg)	Ingestion (mg/kg)	Inhalation (mg/kg)	Total (mg/kg)	Ingestion (mg/kg)	Inhalation (mg/kg)	Total (mg/kg)
2-Butanone (MEK)	78-93-3	V	7,802											
4-Methyl-2-pentanone	108-10-1	V	9,590											
4-Methylphenol	106-44-5		541,271											
Acetone	67-64-1	V	6,689											
Barium	7440-39-3													
Benzo(a)anthracene	56-55-3	V	6,313,262	0.73	0.39	20	1,860	20	13	1,992	12	78	2,343	76
Benzo(a)pyrene	50-32-8		43,671,496	7.3	3.9	2.0	136,562	2.0	1.3	146,316	1.2	7.8	172,068	7.8
Benzo(b)fluoranthene	205-99-2		36,792,973	0.73	0.39	20	1,365,616	20	13	1,463,160	12	78	1,720,676	78
Benzo(g,h,i)perylene	191-24-2													
bis(2-Ethylhexyl) phthalate	117-81-7		42,468,896	0.014	0.0084	1,067	62,590,741	1,067	652	67,061,508	652	4,088	78,864,333	4,088
Chromium	7440-47-3													
Chromium III	16065-83-1													
Chromium, hexavalent	18540-29-9			0.50	294	30	1,788	29	18	1,916	18	114	2,253	109
Chrysene	218-01-9		9,659,803	0.0073	0.039	2,047	13,656,162	2,046	1,250	14,631,602	1,250	7,840	17,206,764	7,836
Ethyl benzene	100-41-4	V	7,613	0.011	0.0088	1,358	99	92	830	106	94	5,203	124	122
Fluoranthene	206-44-0		4,001,555											
Lead	7439-92-1													
Nickel	7440-02-0				0.91		577,761	577,761		619,029	619,029		727,978	727,978
Pyrene	129-00-0	V	3,406,267											
Toluene	108-88-3	V	5,621											
Zinc	7440-66-6													

Lead SSL based on IEUBK model

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

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

Note: VF not used if constituent is not volatile

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

Parameter		Adult		Child		Worker	
		Value	Source	Value	Source	Value	Source
Body Weight, Adult (kg)	BW	70	1	15	2	70	1
Exposure Frequency, Resident Adult (d/yr)	EF	350	1	350	1	250	1
Exposure Duration, Resident Adult (yr)	ED	30	1	6	2	25	1
Soil Ingestion, Resident Adult (mg/d)	IRs	114	1	200	2	50	1
Water ingestion, Resident Adult (L/d)	IRw	2	1	1	1	1	1
Inhalation Rate, Resident Adult (m <sup>3</sup> /d)	IRa	15	1	15	2	20	1
Averaging Time, Cancer, Adult (d)	AT	25550	1	25550	1	25550	1
Target Risk	TR	1.00E-05	1	1.00E-05	1	1.00E-05	1
Water-to-air volatilization factor (L/m <sup>3</sup> )	K	0.5	1	0.5	1	0.5	1
Particulate Emission Factor (m <sup>3</sup> /kg)	PEF	4.63E+09	1	4.63E+09	1	4.63E+09	1

Notes:

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

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

Table 9. Soil Hazard Calculations

Analyte	CAS	Volatile	VF	Oral RfD (mg/kg-day)	Inhalation RfD (mg/kg-day)	RAGS Eqn. 7								
						Adult			Child			Worker		
						Ingestion (mg/kg)	Inhalation (mg/kg)	Total (mg/kg)	Ingestion (mg/kg)	Inhalation (mg/kg)	Total (mg/kg)	Ingestion (mg/kg)	Inhalation (mg/kg)	Total (mg/kg)
2-Butanone (MEK)	78-93-3	V	7,802	0.60	1.4	384,211	54,245	47,534	46,929	11,624	9,316	1,226,400	56,957	54,429
4-Methyl-2-pentanone	108-10-1	V	9,590		0.86		40,003	40,003		8,572	8,572		42,003	42,003
4-Methylphenol	106-44-5		541,271	0.10	0.17	64,035	3,862,742,857	64,034	7,821	827,730,612	7,821	204,400	4,055,880,000	204,390
Acetone	67-64-1	V	6,689	0.90	8.9	576,316	288,339	192,186	70,393	61,787	32,905	1,839,600	302,756	259,970
Barium	7440-39-3			0.20	0.00014	128,070	3,218,952	123,170	15,643	689,776	15,296	408,800	3,379,900	364,691
Benzo(a)anthracene	56-55-3	V	6,313,262											
Benzo(a)pyrene	50-32-8		43,671,496											
Benzo(b)fluoranthene	205-99-2		36,792,973											
Benzo(g,h,i)perylene	191-24-2													
bis(2-Ethylhexyl) phthalate	117-81-7		42,468,896	0.020		12,807		12,807	1,564		1,564	40,880		40,880
Chromium	7440-47-3													
Chromium III	16065-83-1			1.5		960,526		960,526	117,321		117,321	3,066,000		3,066,000
Chromium, hexavalent	18540-29-9			0.0030	0.000029	1,921	643,790	1,915	235	137,955	234	6,132	675,980	6,077
Chrysene	218-01-9		9,659,803											
Ethyl benzene	100-41-4	V	7,613	0.10	0.29	64,035	10,585	9,084	7,821	2,268	1,758	204,400	11,115	10,541
Fluoranthene	206-44-0		4,001,555	0.040		25,614		25,614	3,129		3,129	81,760		81,760
Lead	7439-92-1													
Nickel	7440-02-0			0.020	0.000026	12,807	579,411	12,530	1,564	124,160	1,545	40,880	608,382	38,306
Pyrene	129-00-0	V	3,406,267	0.030		19,211		19,211	2,346		2,346	61,320		61,320
Toluene	108-88-3	V	5,621	0.080	1.4	51,228	39,077	22,168	6,257	8,374	3,581	163,520	41,031	32,801
Zinc	7440-66-6			0.30		192,105		192,105	23,464		23,464	613,200		613,200

Notes:

Lead SSL based on IEUBK model

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

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

Note: VF not used if constituent is not volatile

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

Parameter		Adult		Child		Worker	
		Value	Source	Value	Source	Value	Source
Body Weight, Adult (kg)	BW	70	1	15	2	70	1
Exposure Frequency, Resident Adult (d/yr)	EF	350	1	350	1	250	1
Exposure Duration, Resident Adult (yr)	ED	30	1	6	2	25	1
Soil Ingestion, Resident Adult (mg/d)	IRs	114	1	200	2	50	1
Water ingestion, Resident Adult (L/d)	IRw	2	1	1	1	1	1
Inhalation Rate, Resident Adult (m <sup>3</sup> /d)	IRa	15	1	15	2	20	1
Averaging Time, Noncancer, Adult (d)	AT	10950	1	2190	1	9125	1
Target hazard quotient	THQ	1.00E+00	1	1.00E+00	1	1.00E+00	1
Water-to-air volatilization factor (L/m <sup>3</sup> )	K	0.5	1	0.5	1	0.5	1
Particulate Emission Factor (m3/kg)	PEF	4.63E+09	1	4.63E+09	1	4630000000	1

Exposure Duration x 365 days

Notes:

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

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

Table 10. Groundwater Residential Risk Reduction Standards

Analyte	CAS	TYPE 1 GW RRS				TYPE 2 GW RRS								Residential GW RRS - higher of Type 1 and 2
		Rule 391-3-19-.07(6)(b) and Guidance: The lesser of Table 1 App III and GA MCL (or where NA, the higher of DL or Bkg)				Rule 391-3-19-.07(7)(b): The lesser of Items 1 and 2 (or where NA, the higher of Table 1 App III, background or DL)								
		Table 1, App III (mg/L)	GA MCL (mg/L)	Bkg*	Type 1 GW RRS (mg/L)	Item 1: RAGS Eqn 2 (NC)		Item 2: RAGS Eqn 1 (C)		Lesser of Items 1 and 2	Alternate, if NA		Type 2 GW RRS (mg/L)	
						Adult (mg/L)	Child (mg/L)	Adult (mg/L)	Child (mg/L)		Table 1, App III (mg/L)	Bkg*		
2-Butanone (MEK)	78-93-3	2.0			2.0	8.5	2.3			2.3	2.0		2.3	2.3
4-Methyl-2-pentanone	108-10-1	2.0			2.0	8.3	1.8			1.8	2.0		1.8	2.0
4-Methylphenol	106-44-5				Bkg/DL	3.7	1.6			1.6			1.6	1.6
Acetone	67-64-1	4.0			4.0	24	8.0			8.0	4.0		8.0	8.0
Barium	7440-39-3	2.0	2.0		2.0	7.3	3.1			3.1	2.0		3.1	3.1
Benzo(a)anthracene	56-55-3	0.00010			0.00010			0.00039	0.00050	0.00039	0.00010		0.00039	0.00039
Benzo(a)pyrene	50-32-8	0.00020	0.00020		0.00020			0.00012	0.00025	0.00012	0.00020		0.00012	0.00020
Benzo(b)fluoranthene	205-99-2	0.00020			0.00020			0.0012	0.0025	0.0012	0.00020		0.0012	0.0012
Benzo(g,h,i)perylene	191-24-2				Bkg/DL								Bkg/DL	Bkg/DL
bis(2-Ethylhexyl) phthalate	117-81-7	0.0060	0.0060		0.0060	0.73	0.31	0.06	0.13	0.061	0.0060		0.061	0.061
Chromium	7440-47-3	0.10	0.10		0.10						0.10		0.10	0.10
Chromium III	16065-83-1				Bkg/DL	55	23			23			23	23
Chromium, hexavalent	18540-29-9				Bkg/DL	0.11	0.05	0.0017	0.0037	0.0017			0.0017	0.0017
Chrysene	218-01-9	0.00020			0.00020			0.12	0.25	0.12	0.00020		0.12	0.12
Ethyl benzene	100-41-4	0.70	0.70		0.70	1.6	0.43	0.019	0.024	0.019	0.70		0.019	0.70
Fluoranthene	206-44-0	1.0			1.0	1.5	0.63			0.63	1.0		0.63	1.0
Lead	7439-92-1	0.015			0.015						0.015		0.015	0.015
Nickel	7440-02-0	0.10	0.10		0.10	0.73	0.31			0.31	0.10		0.31	0.31
Pyrene	129-00-0	1.0			1.0	1.1	0.47			0.47	1.0		0.47	1.0
Toluene	108-88-3	1.0	1.0		1.0	2.4	0.88			0.88	1.0		0.88	1.0
Zinc	7440-66-6	2.0			2.0	11	4.7			4.7	2.0		4.7	4.7

\* No site-specific background values calculated.

Table 11. Groundwater Industrial Risk Reduction Standards

Analyte	CAS	TYPE 3 GW RRS	TYPE 4 GW RRS					Non-Residential RRS - higher of Type 3 and 4 (mg/L)	
		Rule 391-3-19-.07(8)(c) Same as Type 1 GW RRS (mg/L)	Rule 391-3-19-.07(9)(c): The lesser of Items 1 and 2 (or where NA, the higher of Table 1 App III, background and DL)						
			Item 1 RAGS Eqn 2 (NC) (mg/L)	Item 2 RAGS Eqn 1 (C) (mg/L)	Lesser of Items 1 and 2 (mg/L)	Alternate			Type 4 GW RRS (mg/L)
					Table 1, App III (mg/L)	Bkg* (mg/L)			
2-Butanone (MEK)	78-93-3	2.0	12		12	2.0		12	12
4-Methyl-2-pentanone	108-10-1	2.0	8.8		8.8	2.0		8.8	8.8
4-Methylphenol	106-44-5	Bkg/DL	10		10			10	10
Acetone	67-64-1	4.0	46		46	4.0		46	46
Barium	7440-39-3	2.0	20		20	2.0		20	20
Benzo(a)anthracene	56-55-3	0.00010		0.00062	0.00062	0.00010		0.00062	0.00062
Benzo(a)pyrene	50-32-8	0.00020		0.00039	0.00039	0.00020		0.00039	0.00039
Benzo(b)fluoranthene	205-99-2	0.00020		0.0039	0.0039	0.00020		0.0039	0.0039
Benzo(g,h,i)perylene	191-24-2	Bkg/DL						Bkg/DL	Bkg/DL
bis(2-Ethylhexyl) phthalate	117-81-7	0.0060	2.0	0.20	0.20	0.0060		0.20	0.20
Chromium	7440-47-3	0.10				0.10		0.10	0.10
Chromium III	16065-83-1	Bkg/DL	153		153			153	153
Chromium, hexavalent	18540-29-9	Bkg/DL	0.31	0.0057	0.0057			0.0057	0.0057
Chrysene	218-01-9	0.00020		0.39	0.39	0.00020		0.39	0.39
Ethyl benzene	100-41-4	0.70	2.3	0.029	0.029	0.70		0.029	0.70
Fluoranthene	206-44-0	1.0	4.1		4.1	1.0		4.1	4.1
Lead	7439-92-1	0.015				0.015		0.015	0.015
Nickel	7440-02-0	0.10	2.0		2.0	0.10		2.0	2.0
Pyrene	129-00-0	1.0	3.1		3.1	1.0		3.1	3.1
Toluene	108-88-3	1.0	5.2		5.2	1.0		5.2	5.2
Zinc	7440-66-6	2.0	31		31	2.0		31	31

\* No site-specific background values calculated.



Table 12. Protection of Groundwater Soil Screening Level Calculations

Analyte	CAS	Physical/Chemical Properties			Type 1/2 SSL			Type 4 SSL		
		Unitless Henry's Law (H') <sup>a</sup>	Organic Carbon Partitioning Coefficient (Koc) (L/kg)	Soil-Water Partition Coefficient (Kd = Koc * OC) (L/kg)	Residential GW RRS (Higher of Type 1 and 2) (mg/L)	Target Soil Leachate Concentration (Cw = GW RRS * DAF) (mg/L)	Type 1/2 SSL <sup>b</sup> (mg/kg)	Nonresidential GW RRS (Higher of Type 3 and 4) (mg/L)	Target Soil Leachate Concentration (Cw = GW RRS * DAF) (mg/L)	Type 4 SSL <sup>b</sup> (mg/kg)
2-Butanone (MEK)	78-93-3	0.0023	4.5	0.0090	2.3	45	9.5	12	236	49
4-Methyl-2-pentanone	108-10-1	0.0056	13	0.025	2.0	40	9.0	8.8	175	40
4-Methylphenol	106-44-5	0.000041	300	0.60	1.6	31	25	10	204	164
Acetone	67-64-1	0.0014	2.4	0.0047	8.0	160	33	46	912	187
Barium	7440-39-3			41	3.1	63	2,578	20	409	16,807
Benzo(a)anthracene	56-55-3	0.00049	176,900	354	0.00039	0.0078	2.8	0.00062	0.012	4.4
Benzo(a)pyrene	50-32-8	0.000019	587,400	1,175	0.00020	0.0040	4.7	0.00039	0.0078	9.2
Benzo(b)fluoranthene	205-99-2	0.000027	599,400	1,199	0.0012	0.023	28	0.0039	0.078	94
Benzo(g,h,i)perylene	191-24-2				Bkg/DL			Bkg/DL		
bis(2-Ethylhexyl) phthalate	117-81-7	0.000011	119,600	239	0.061	1.2	291	0.20	4.1	979
Chromium	7440-47-3			1,800,000	0.10	2.0	3,600,000	0.10	2.0	3,600,000
Chromium III	16065-83-1			1,800,000	23	469	844,714,380	153	3,066	5,518,800,347
Chromium, hexavalent	18540-29-9			19	0.0017	0.034	0.65	0.0057	0.11	2.2
Chrysene	218-01-9	0.00021	180,500	361	0.12	2.3	843	0.39	7.8	2,832
Ethyl benzene	100-41-4	0.32	446	0.89	0.70	14	16	0.70	14	16
Fluoranthene	206-44-0	0.00036	55,450	111	1.0	20	2,222	4.1	82	9,084
Lead	7439-92-1			900	0.015	0.30	270	0.015	0.30	270
Nickel	7440-02-0			65	0.31	6.3	408	2.0	41	2,662
Pyrene	129-00-0	0.00049	54,340	109	1.0	20	2,178	3.1	61	6,677
Toluene	108-88-3	0.27	234	0.47	1.0	20	14	5.2	105	73
Zinc	7440-66-6			62	4.7	94	5,838	31	613	38,088

Notes:

- DAF = 20.00
- OC (site specific organic carbon) = 0.2%
- n (porosity)<sup>c</sup> = 0.43
- ps (soil particle den. kg/L)<sup>c</sup> = 2.65
- 0w (water-filled soil por)<sup>c</sup> = 0.3
- 0a (air-filled soil por)<sup>c</sup> = n - 0w = 0.13
- pb (dry soil bulk den. kg/L)<sup>c</sup> = 1.5

<sup>a</sup>H is set to zero for metals, with the exception of mercury

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

<sup>c</sup>Default Soil Screening Guidance Values

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

Table 13. Soil Residential Risk Reduction Standards

Analyte	TYPE 1 - SOIL											
	Rule 391-3-19-.07(6)(c): Table 2 Appendix III, or if not listed, the the least of Items 1-3 (and if not calculable the higher of background and DL)											
	Table 2 - Appendix III (mg/kg)	Item 1 of Rule 391-3-19-.07(6)(c): Higher of (i), (ii), (iii)				Item 2 RAGS Eqn. 7 (NC)	Item 3 RAGS Eqn. 6 (C)			Least of Items 1 - 3 (mg/kg)	Bkg** (mg/kg)	Type 1 Soil RRS (mg/kg)
		(i): Appendix I (NC) - exclude [] (mg/kg)	(ii): Table 1 GW x 100 factor (mg/kg)	(iii): TCLP* (mg/kg)	Higher of i - iii (mg/kg)	Adult (mg/kg)	Adult (mg/kg)	Carcin. Class	Adjusted Adult (mg/kg)			
2-Butanone (MEK)		0.79	200		200	47,534				200		200
4-Methyl-2-pentanone		3.3	200		200	40,003				200		200
4-Methylphenol		3.8			3.8	64,034				3.8		3.8
Acetone		2.7	400		400	192,186				400		400
Barium	1,000	500	200		500	123,170		D		500		1,000
Benzo(a)anthracene		5.0	0.010		5.0		20	A	20	5.0		5.0
Benzo(a)pyrene		1.6	0.020		1.6		2.0	A	2.0	1.6		1.6
Benzo(b)fluoranthene		5.0	0.020		5.0		20	A	20	5.0		5.0
Benzo(g,h,i)perylene		500			500			D		500		500
bis(2-Ethylhexyl) phthalate		50	0.60		50	12,807	1,067	B2	1,067	50		50
Chromium	100	1,200	10		1,200					1,200		100
Chromium III						960,526				960,526		960,526
Chromium, hexavalent						1,915	29		29	29		29
Chrysene		5.0	0.020		5.0		2,046	A	2,046	5.0		5.0
Ethyl benzene		20	70		70	9,084	92		92	70		70
Fluoranthene		500	100		500	25,614		D		500		500
Lead	75	400	1.5		400			B2		400		75
Nickel	50	420	10		420	12,530	577,761		577,761	420		50
Pyrene		500	100		500	19,211		D		500		500
Toluene		14	100		100	22,168				100		100
Zinc	100	2,800	200		2,800	192,105				2,800		100

\* NA - TCLP results not available for this Site

\*\* NA - Background not determined for this Site

Table 13. Soil Residential Risk Reduction Standards

Analyte	TYPE 2 - SOIL											Residential Soil RRS - higher of Type 1 and 2 (mg/kg)
	Rule 391-3-19-.07(7)(c): Least of Items 1-4 (and if not calculable, the higher of Table 2 Appendix III, background and DL)											
	Item 1 Type 1/2 SSL Protective of Groundwater (mg/kg)	Item 2 RAGS Eqn 7 (NC)		Item 3 RAGS Eqn 6 (C)		Item 4 IEUBK (mg/kg)	Least of Items 1 - 4 (mg/kg)	Alternate, if NA		Type 2 RRS (mg/kg)		
		Adult (mg/kg)	Child (mg/kg)	Adult (mg/kg)	Child (mg/kg)			Table 2, Appendix III (mg/kg)	Bkg ** (mg/kg)			
2-Butanone (MEK)	9.5	47,534	9,316				9.5			9.5	200	
4-Methyl-2-pentanone	9.0	40,003	8,572				9.0			9.0	200	
4-Methylphenol	25	64,034	7,821				25			25	25	
Acetone	33	192,186	32,905				33			33	400	
Barium	2,578	123,170	15,296				2,578	1,000		2,578	2,578	
Benzo(a)anthracene	2.8			20	12		2.8			2.8	5.0	
Benzo(a)pyrene	4.7			2.0	1.2		1.2			1.2	1.6	
Benzo(b)fluoranthene	28			20	12		12			12	12	
Benzo(g,h,i)perylene										Bkg/DL	500	
bis(2-Ethylhexyl) phthalate	291	12,807	1,564	1,067	652		291			291	291	
Chromium	3,600,000						3,600,000	100		3,600,000	3,600,000	
Chromium III	844,714,380	960,526	117,321				117,321			117,321	960,526	
Chromium, hexavalent	0.65	1,915	234	29	18		0.65			0.65	29	
Chrysene	843			2,046	1,250		843			843	843	
Ethyl benzene	16	9,084	1,758	92	94		16			16	70	
Fluoranthene	2,222	25,614	3,129				2,222			2,222	2,222	
Lead	270					418	270	75		270	270	
Nickel	408	12,530	1,545	577,761	619,029		408	50		408	408	
Pyrene	2,178	19,211	2,346				2,178			2,178	2,178	
Toluene	14	22,168	3,581				14			14	100	
Zinc	5,838	192,105	23,464				5,838	100		5,838	5,838	

\* NA - TCLP results not available for this Site

\*\* NA - Background not determined for this Site

Table 14. Soil Non-Residential Risk Reduction Standards

Analyte	TYPE 3 - SOIL														
	Item 1: Rule 391-3-19-.07(8)(d)1.						Item 2: Rule 391-3-19-.07(8)(d)2						Alternate if NA	Type 3 SS (<2') RRS: Lower of Items 1 and 2, if NA then Bkg or DL	Type 3 SB (>2') RRS: Item 1, if NA then Bkg or DL
	(i): Item 1 of Rule 391-3-19-.07(6)(c)			(ii)	(iii)	Item 1: Highest of (i), (ii) and (iii)	(i)	(ii)			(iii)	Item 2: Lowest of (i), (ii) and (iii)	Bkg **	(mg/kg)	(mg/kg)
	Appendix I (NC) - exclude []	Table 1 GW x 100 factor	TCLP*	Table 2, Appendix III	Lead		RAGS Eqn. 7 Worker NC	RAGS Eqn. 6 Worker C	Cancer Class	Adjusted Eqn. 6 Worker C	Lead				
(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
2-Butanone (MEK)	0.79	200				200	54,429					54,429		200	200
4-Methyl-2-pentanone	3.3	200				200	42,003					42,003		200	200
4-Methylphenol	3.8					3.8	204,390					204,390		3.8	3.8
Acetone	2.7	400				400	259,970					259,970		400	400
Barium	500	200		1,000		1,000	364,691		D			364,691		1,000	1,000
Benzo(a)anthracene	5.0	0.010				5.0		76	A	76		76		5.00	5.00
Benzo(a)pyrene	1.6	0.020				1.6		7.84	A	7.8		7.8		1.64	1.64
Benzo(b)fluoranthene	5.0	0.020				5.0		78	A	78		78		5.0	5.0
Benzo(g,h,i)perylene	500					500			D					500	500
bis(2-Ethylhexyl) phthalate	50	0.60				50	40,880	4,088	B2	4,088		4,088		50	50
Chromium	1,200	10		100		1,200								1,200	1,200
Chromium III							3,066,000					3,066,000		3,066,000	Bkg/DL
Chromium, hexavalent							6,077	109		109		109		109	Bkg/DL
Chrysene	5.0	0.020				5.00		7,836	A	7,836		7,836		5.0	5.0
Ethyl benzene	20	70				70	10,541	122		122		122		70	70
Fluoranthene	500	100				500	81,760		D			81,760		500	500
Lead	400	1.5		75	400	400			B2		400	400		400	400
Nickel	420	10		50		420	38,306	727,978		727,978		38,306		420	420
Pyrene	500	100				500	61,320		D			61,320		500	500
Toluene	14	100				100	32,801					32,801		100	100
Zinc	2,800	200		100		2,800	613,200					613,200		2,800	2,800

\* NA - TCLP results not available for this Site

\*\* NA - Background not determined for this Site

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

Table 14. Soil Non-Residential Risk Reduction Standards

Analyte	TYPE 4 - SOIL									Non-Residential SS	Non-Residential SB
	Item 1: Rule 391-3-19.-07(9)(d)	Item 2: Rule 391-3-19.-07(9)(d)				Alternate, if NA		Type 4 SS RRS: Lesser of Items 1 and 2	Type 4 SB RRS: Item 1		
	Type 3/4 SSL Protection of Groundwater (mg/kg)	(i)	(ii)	(iii)	Item 2: Lowest of (i), (ii) and (iii) (mg/kg)	Table 2, Appendix III (mg/kg)	Bkg ** (mg/kg)	if NA highest of Table 2 Appendix III, Bkg or DL			
		RAGS Eqn.7 Worker NC (mg/kg)	RAGS Eqn. 6 Worker C (mg/kg)	Lead (mg/kg)				(mg/kg)	(mg/kg)		
2-Butanone (MEK)	49	54,429			54,429			49	49	200	200
4-Methyl-2-pentanone	40	42,003			42,003			40	40	200	200
4-Methylphenol	164	204,390			204,390			164	164	164	164
Acetone	187	259,970			259,970			187	187	400	400
Barium	16,807	364,691			364,691	1,000		16,807	16,807	16,807	16,807
Benzo(a)anthracene	4.4		76		76			4.4	4.4	5.0	5.0
Benzo(a)pyrene	9.2		7.8		7.8			7.8	9.2	7.8	9.2
Benzo(b)fluoranthene	94		78		78			78	94	78	94
Benzo(g,h,i)perylene								Bkg/DL	Bkg/DL	500	500
bis(2-Ethylhexyl) phthalate	979	40,880	4,088		4,088			979	979	979	979
Chromium	3,600,000					100		3,600,000	3,600,000	3,600,000	3,600,000
Chromium III	5,518,800,347	3,066,000			3,066,000			3,066,000	5,518,800,347	3,066,000	5,518,800,347
Chromium, hexavalent	2.2	6,077	109		109			2.2	2.2	109	2.2
Chrysene	2,832		7,836		7,836			2,832	2,832	2,832	2,832
Ethyl benzene	16	10,541	122		122			16	16	70	70
Fluoranthene	9,084	81,760			81,760			9,084	9,084	9,084	9,084
Lead	270			1,096	1,096	75		270	270	400	400
Nickel	2,662	38,306	727,978		38,306	50		2,662	2,662	2,662	2,662
Pyrene	6,677	61,320			61,320			6,677	6,677	6,677	6,677
Toluene	73	32,801			32,801			73	73	100	100
Zinc	38,088	613,200			613,200	100		38,088	38,088	38,088	38,088

\* NA - TCLP results not available for this Site

\*\* NA - Background not determined for this Site

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

**Table 15. Summary of Default Risk Reduction Standards (April 2016)**

Analyte	Groundwater					
	Type 1 RRS	Type 2 RRS	Residential RRS	Type 3 RRS	Type 4 RRS	Non-Residential RRS
	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
2-Butanone (MEK)	2.0	2.3	2.3	2.0	12	12
4-Methyl-2-pentanone	2.0	1.8	2.0	2.0	8.8	8.8
4-Methylphenol	Bkg/DL	1.6	1.6	Bkg/DL	10	10
Acetone	4.0	8.0	8.0	4.0	46	46
Barium	2.0	3.1	3.1	2.0	20	20
Benzo(a)anthracene	0.00010	0.00039	0.00039	0.00010	0.00062	0.00062
Benzo(a)pyrene	0.00020	0.00012	0.00020	0.00020	0.00039	0.00039
Benzo(b)fluoranthene	0.00020	0.0012	0.0012	0.00020	0.0039	0.0039
Benzo(g,h,i)perylene	Bkg/DL	Bkg/DL	Bkg/DL	Bkg/DL	Bkg/DL	Bkg/DL
bis(2-Ethylhexyl) phthalate	0.0060	0.061	0.061	0.0060	0.20	0.20
Chromium	0.10	0.10	0.10	0.10	0.10	0.10
Chromium III	Bkg/DL	23.46	23.46	Bkg/DL	153	153
Chromium, hexavalent	Bkg/DL	0.0017	0.0017	Bkg/DL	0.0057	0.0057
Chrysene	0.00020	0.12	0.12	0.00020	0.39	0.39
Ethyl benzene	0.70	0.02	0.70	0.70	0.029	0.70
Fluoranthene	1.0	0.63	1.0	1.0	4.1	4.1
Lead	0.015	0.015	0.015	0.015	0.015	0.015
Nickel	0.10	0.31	0.31	0.10	2.0	2.0
Pyrene	1.0	0.47	1.0	1.0	3.1	3.1
Toluene	1.0	0.88	1.0	1.0	5.2	5.2
Zinc	2.0	4.7	4.7	2.0	31	31

\* Note if Type 3 or Type 4 RRS is below Residential RRS, the non-residential RRS may be set at the Residential RRS.

**Table 15. Summary of Default Risk Reduction Standards (April 2016)**

Analyte	Soil								
	Type 1 RRS (mg/kg)	Type 2 RRS (mg/kg)	Residential RRS (mg/kg)	Type 3 RRS		Type 4 RRS		Non-Residential RRS	
				SS (mg/kg)	SB (mg/kg)	SS (mg/kg)	SB (mg/kg)	SS (mg/kg)	SB (mg/kg)
2-Butanone (MEK)	200	9.5	200	200	200	49	49	200	200
4-Methyl-2-pentanone	200	9.0	200	200	200	40	40	200	200
4-Methylphenol	3.8	25	25	3.8	3.8	164	164	164	164
Acetone	400	33	400	400	400	187	187	400	400
Barium	1,000	2,578	2,578	1,000	1,000	16,807	16,807	16,807	16,807
Benzo(a)anthracene	5.0	2.8	5.0	5.0	5.0	4.4	4.4	5.0	5.0
Benzo(a)pyrene	1.6	1.2	1.6	1.6	1.6	7.8	9.2	7.8	9.2
Benzo(b)fluoranthene	5.0	12	12	5.0	5.0	78	94	78	94
Benzo(g,h,i)perylene	500	Bkg/DL	500	500	500	Bkg/DL	Bkg/DL	500	500
bis(2-Ethylhexyl) phthalate	50	291	291	50	50	979	979	979	979
Chromium	100	3,600,000	3,600,000	1,200	1,200	3,600,000	3,600,000	3,600,000	3,600,000
Chromium III	960,526	117,321	960,526	3,066,000	Bkg/DL	3,066,000	5,518,800,347	3,066,000	5,518,800,347
Chromium, hexavalent	29	0.65	29	109	Bkg/DL	2.2	2.2	109	29*
Chrysene	5.0	843	843	5.0	5.0	2,832	2,832	2,832	2,832
Ethyl benzene	70	16	70	70	70	16	16	70	70
Fluoranthene	500	2,222	2,222	500	500	9,084	9,084	9,084	9,084
Lead	75	270	270	400	400	270	270	400	400
Nickel	50	408	408	420	420	2,662	2,662	2,662	2,662
Pyrene	500	2,178	2,178	500	500	6,677	6,677	6,677	6,677
Toluene	100	14	100	100	100	73	73	100	100
Zinc	100	5,838	5,838	2,800	2,800	38,088	38,088	38,088	38,088

\* Note if Type 3 or Type 4 RRS is below Residential RRS, the non-residential RRS may be set at the Residential RRS.

## **APPENDIX E**

### **LABORATORY REPORTS**



## **AES Laboratory Data - June**



June 19, 2015

Justin Vickery  
Environmental Planning Specialists, Inc.  
1050 Crown Pointe Parkway  
Atlanta GA 30338

TEL: (404) 315-9113  
FAX: (404) 315-8509

RE: PPC

Dear Justin Vickery:

Order No: 1506C34

Analytical Environmental Services, Inc. received 28 samples on June 11, 2015 7:30 am for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/14-06/30/15.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Nicole Jessup  
Project Manager



# ANALYTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Drive, Atlanta GA 30340-3704

AES

TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

## CHAIN OF CUSTODY

Work Order: 15010C34

Date: 6/10/15 Page 1 of 2

COMPANY: <b>EPS, Inc</b>		ADDRESS: <b>1050 Crown Pointe Parkway Suite 550 Atlanta, GA 30338</b>					ANALYSIS REQUESTED										Visit our website <a href="http://www.aesatlanta.com">www.aesatlanta.com</a> to check on the status of your results, place bottle orders, etc.		No # of Containers																			
PHONE: <b>404-315-9113</b>		FAX:					<table border="1"> <tr> <td>VOC</td> <td>SUOC</td> <td>PCRA METALS Nickel, Zinc, Hg</td> <td>UOL</td> <td>SUOL</td> <td>PCRA METALS Pb, Zn, Hg</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>										VOC	SUOC		PCRA METALS Nickel, Zinc, Hg	UOL	SUOL	PCRA METALS Pb, Zn, Hg															
VOC	SUOC	PCRA METALS Nickel, Zinc, Hg	UOL	SUOL	PCRA METALS Pb, Zn, Hg																																	
SAMPLED BY: <b>William Crowe</b>		SIGNATURE:					PRESERVATION (See codes)										REMARKS																					
#	SAMPLE ID	SAMPLED		Grab	Composite	Matrix (See codes)	PRESERVATION (See codes)						REMARKS	No # of Containers																								
		DATE	TIME				H+	H	M+	M	W+	W																										
1	15169-SW-1	6/10/15	1313	X		SW	X	X	X											5																		
2	15169-SW-2	6/10/15	1324	X		SW	X	X	X											5																		
3	15169-SW-3	6/10/15	1334	X		SW	X	X	X											5																		
4	15161-nw-1	6/10/15	1213	X		GW	X	X	X											5																		
5	15161-nw-2	6/10/15	1016	X		GW	X	X	X											5																		
6	15160-nw-3	6/9/15	1807	X		GW	X	X	X											5																		
7	15160-nw-4		1433	X		GW	X	X	X											5																		
8	15160-nw-5		1233	X		GW	X	X	X											5																		
9	15160-nw-6	6/9/15	1013	X		GW	X	X	X											5																		
10	15169-SD-1	6/10/15	1310	X		SE				X	X	X								5																		
11	15169-SD-2		1320	X		SE				X	X	X								5																		
12	15169-SD-3	6/10/15	1332	X		SE				X	X	X								5																		
13	15159-SB-1-2	6/8/15	1717	X		SO				X	X	X								5																		
14	15160-SB-2-2	6/9/15	0839	X		SO				X	X	X								5																		
RELINQUISHED BY		DATE/TIME	RECEIVED BY		DATE/TIME	PROJECT INFORMATION										RECEIPT																						
1:		6/11/15 0730	1: <b>M. Kataric</b>		6/11/15 7:30am	PROJECT NAME: <b>PPC</b>										Total # of Containers: <b>70</b>																						
2:			2:			PROJECT #:										Turnaround Time Request																						
3:			3:			SITE ADDRESS:										<input checked="" type="radio"/> Standard 5 Business Days <input type="radio"/> 2 Business Day Rush <input type="radio"/> Next Business Day Rush <input type="radio"/> Same Day Rush (auth req.) <input type="radio"/> Other																						
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD										STATE PROGRAM (if any):																										
		OUT / / VIA: IN <input checked="" type="radio"/> CLIENT / / VIA: FedEx UPS MAIL COURIER GREYHOUND OTHER										E-mail? Y/N; Fax? Y/N																										
		QUOTE #:										DATA PACKAGE: I II III IV																										

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES. SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water  
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None



**Client:** Environmental Planning Specialists, Inc.  
**Project:** PPC  
**Lab ID:** 1506C34

**Case Narrative**

Sample Receiving Nonconformance:

Sample information on the Chain of Custody did not match that of the containers received. COC indicates VOC, SVOC, and RCRA METALS (Ni Zn Hg) for trip blank sample; however, only 8 VOAHL were received. Extra VOAHL placed on hold.

Per Ben Crowe via email 6/12/2015, all samples should also be analyzed for Phosphorous by method SW6010C.

Volatile Organic Compounds Analysis by Method 8260B:

Percent recovery for the internal standard compound 1,4-Dichlorobenzene-d4 on samples 1506C34-011A, -012A, 016A,018A,-017A, -019A,020A & 024A was outside control limits biased low due to suspected matrix interference. All other internal standard recoveries were within control limits.

Percent recoveries for the internal standard compounds Pentafluorobenzene and 1,4-Dichlorobenzene-d4 on sample 1506C34-022A was outside control limits biased low due to suspected matrix interference. All other internal standard recoveries were within control limits.

Percent recoveries for the internal standard compounds Chlorobenzene-d5 and 1,4-Dichlorobenzene-d4 on samples 1506C34-010A &026A was outside control limits biased low due to suspected matrix interference. All other internal standard recoveries were within control limits.

**Analytical Environmental Services, Inc**

**Date:** 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15161-SW-1
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/10/2015 1:13:00 PM
<b>Lab ID:</b> 1506C34-001	<b>Matrix:</b> Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL-SEMIVOLATILE ORGANICS SW8270D (SW3510C)</b>								
1,1'-Biphenyl	BRL	10		ug/L	208676	1	06/15/2015 19:05	YH
2,4,5-Trichlorophenol	BRL	25		ug/L	208676	1	06/15/2015 19:05	YH
2,4,6-Trichlorophenol	BRL	10		ug/L	208676	1	06/15/2015 19:05	YH
2,4-Dichlorophenol	BRL	10		ug/L	208676	1	06/15/2015 19:05	YH
2,4-Dimethylphenol	BRL	10		ug/L	208676	1	06/15/2015 19:05	YH
2,4-Dinitrophenol	BRL	25		ug/L	208676	1	06/15/2015 19:05	YH
2,4-Dinitrotoluene	BRL	10		ug/L	208676	1	06/15/2015 19:05	YH
2,6-Dinitrotoluene	BRL	10		ug/L	208676	1	06/15/2015 19:05	YH
2-Chloronaphthalene	BRL	10		ug/L	208676	1	06/15/2015 19:05	YH
2-Chlorophenol	BRL	10		ug/L	208676	1	06/15/2015 19:05	YH
2-Methylnaphthalene	BRL	10		ug/L	208676	1	06/15/2015 19:05	YH
2-Methylphenol	BRL	10		ug/L	208676	1	06/15/2015 19:05	YH
2-Nitroaniline	BRL	25		ug/L	208676	1	06/15/2015 19:05	YH
2-Nitrophenol	BRL	10		ug/L	208676	1	06/15/2015 19:05	YH
3,3'-Dichlorobenzidine	BRL	10		ug/L	208676	1	06/15/2015 19:05	YH
3-Nitroaniline	BRL	25		ug/L	208676	1	06/15/2015 19:05	YH
4,6-Dinitro-2-methylphenol	BRL	25		ug/L	208676	1	06/15/2015 19:05	YH
4-Bromophenyl phenyl ether	BRL	10		ug/L	208676	1	06/15/2015 19:05	YH
4-Chloro-3-methylphenol	BRL	10		ug/L	208676	1	06/15/2015 19:05	YH
4-Chloroaniline	BRL	10		ug/L	208676	1	06/15/2015 19:05	YH
4-Chlorophenyl phenyl ether	BRL	10		ug/L	208676	1	06/15/2015 19:05	YH
4-Methylphenol	BRL	10		ug/L	208676	1	06/15/2015 19:05	YH
4-Nitroaniline	BRL	25		ug/L	208676	1	06/15/2015 19:05	YH
4-Nitrophenol	BRL	25		ug/L	208676	1	06/15/2015 19:05	YH
Acenaphthene	BRL	10		ug/L	208676	1	06/15/2015 19:05	YH
Acenaphthylene	BRL	10		ug/L	208676	1	06/15/2015 19:05	YH
Acetophenone	BRL	10		ug/L	208676	1	06/15/2015 19:05	YH
Anthracene	BRL	10		ug/L	208676	1	06/15/2015 19:05	YH
Atrazine	BRL	10		ug/L	208676	1	06/15/2015 19:05	YH
Benz(a)anthracene	BRL	10		ug/L	208676	1	06/15/2015 19:05	YH
Benzaldehyde	BRL	10		ug/L	208676	1	06/15/2015 19:05	YH
Benzo(a)pyrene	BRL	10		ug/L	208676	1	06/15/2015 19:05	YH
Benzo(b)fluoranthene	BRL	10		ug/L	208676	1	06/15/2015 19:05	YH
Benzo(g,h,i)perylene	BRL	10		ug/L	208676	1	06/15/2015 19:05	YH
Benzo(k)fluoranthene	BRL	10		ug/L	208676	1	06/15/2015 19:05	YH
Bis(2-chloroethoxy)methane	BRL	10		ug/L	208676	1	06/15/2015 19:05	YH
Bis(2-chloroethyl)ether	BRL	10		ug/L	208676	1	06/15/2015 19:05	YH
Bis(2-chloroisopropyl)ether	BRL	10		ug/L	208676	1	06/15/2015 19:05	YH
Bis(2-ethylhexyl)phthalate	BRL	10		ug/L	208676	1	06/15/2015 19:05	YH
Butyl benzyl phthalate	BRL	10		ug/L	208676	1	06/15/2015 19:05	YH
Caprolactam	BRL	10		ug/L	208676	1	06/15/2015 19:05	YH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15161-SW-1
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/10/2015 1:13:00 PM
<b>Lab ID:</b> 1506C34-001	<b>Matrix:</b> Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL-SEMIVOLATILE ORGANICS SW8270D</b>					<b>(SW3510C)</b>			
Carbazole	BRL	10		ug/L	208676	1	06/15/2015 19:05	YH
Chrysene	BRL	10		ug/L	208676	1	06/15/2015 19:05	YH
Di-n-butyl phthalate	BRL	10		ug/L	208676	1	06/15/2015 19:05	YH
Di-n-octyl phthalate	BRL	10		ug/L	208676	1	06/15/2015 19:05	YH
Dibenz(a,h)anthracene	BRL	10		ug/L	208676	1	06/15/2015 19:05	YH
Dibenzofuran	BRL	10		ug/L	208676	1	06/15/2015 19:05	YH
Diethyl phthalate	BRL	10		ug/L	208676	1	06/15/2015 19:05	YH
Dimethyl phthalate	BRL	10		ug/L	208676	1	06/15/2015 19:05	YH
Fluoranthene	BRL	10		ug/L	208676	1	06/15/2015 19:05	YH
Fluorene	BRL	10		ug/L	208676	1	06/15/2015 19:05	YH
Hexachlorobenzene	BRL	10		ug/L	208676	1	06/15/2015 19:05	YH
Hexachlorobutadiene	BRL	10		ug/L	208676	1	06/15/2015 19:05	YH
Hexachlorocyclopentadiene	BRL	10		ug/L	208676	1	06/15/2015 19:05	YH
Hexachloroethane	BRL	10		ug/L	208676	1	06/15/2015 19:05	YH
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	208676	1	06/15/2015 19:05	YH
Isophorone	BRL	10		ug/L	208676	1	06/15/2015 19:05	YH
N-Nitrosodi-n-propylamine	BRL	10		ug/L	208676	1	06/15/2015 19:05	YH
N-Nitrosodiphenylamine	BRL	10		ug/L	208676	1	06/15/2015 19:05	YH
Naphthalene	BRL	10		ug/L	208676	1	06/15/2015 19:05	YH
Nitrobenzene	BRL	10		ug/L	208676	1	06/15/2015 19:05	YH
Pentachlorophenol	BRL	25		ug/L	208676	1	06/15/2015 19:05	YH
Phenanthrene	BRL	10		ug/L	208676	1	06/15/2015 19:05	YH
Phenol	BRL	10		ug/L	208676	1	06/15/2015 19:05	YH
Pyrene	BRL	10		ug/L	208676	1	06/15/2015 19:05	YH
Surr: 2,4,6-Tribromophenol	90.6	52-133		%REC	208676	1	06/15/2015 19:05	YH
Surr: 2-Fluorobiphenyl	86.4	50-121		%REC	208676	1	06/15/2015 19:05	YH
Surr: 2-Fluorophenol	54.1	27.5-120		%REC	208676	1	06/15/2015 19:05	YH
Surr: 4-Terphenyl-d14	81.5	46.3-137		%REC	208676	1	06/15/2015 19:05	YH
Surr: Nitrobenzene-d5	76.8	41.2-121		%REC	208676	1	06/15/2015 19:05	YH
Surr: Phenol-d5	40.7	14.3-120		%REC	208676	1	06/15/2015 19:05	YH
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5030B)</b>			
1,1,1-Trichloroethane	BRL	5.0		ug/L	208771	1	06/13/2015 16:21	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	208771	1	06/13/2015 16:21	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	208771	1	06/13/2015 16:21	GK
1,1-Dichloroethane	BRL	5.0		ug/L	208771	1	06/13/2015 16:21	GK
1,1-Dichloroethene	BRL	5.0		ug/L	208771	1	06/13/2015 16:21	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	208771	1	06/13/2015 16:21	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	208771	1	06/13/2015 16:21	GK
1,2-Dibromoethane	BRL	5.0		ug/L	208771	1	06/13/2015 16:21	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	208771	1	06/13/2015 16:21	GK

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
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- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15161-SW-1
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/10/2015 1:13:00 PM
<b>Lab ID:</b> 1506C34-001	<b>Matrix:</b> Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,2-Dichloroethane	BRL	5.0		ug/L	208771	1	06/13/2015 16:21	GK
1,2-Dichloropropane	BRL	5.0		ug/L	208771	1	06/13/2015 16:21	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	208771	1	06/13/2015 16:21	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	208771	1	06/13/2015 16:21	GK
2-Butanone	BRL	50		ug/L	208771	1	06/13/2015 16:21	GK
2-Hexanone	BRL	10		ug/L	208771	1	06/13/2015 16:21	GK
4-Methyl-2-pentanone	BRL	10		ug/L	208771	1	06/13/2015 16:21	GK
Acetone	BRL	50		ug/L	208771	1	06/13/2015 16:21	GK
Benzene	BRL	5.0		ug/L	208771	1	06/13/2015 16:21	GK
Bromodichloromethane	BRL	5.0		ug/L	208771	1	06/13/2015 16:21	GK
Bromoform	BRL	5.0		ug/L	208771	1	06/13/2015 16:21	GK
Bromomethane	BRL	5.0		ug/L	208771	1	06/13/2015 16:21	GK
Carbon disulfide	BRL	5.0		ug/L	208771	1	06/13/2015 16:21	GK
Carbon tetrachloride	BRL	5.0		ug/L	208771	1	06/13/2015 16:21	GK
Chlorobenzene	BRL	5.0		ug/L	208771	1	06/13/2015 16:21	GK
Chloroethane	BRL	10		ug/L	208771	1	06/13/2015 16:21	GK
Chloroform	BRL	5.0		ug/L	208771	1	06/13/2015 16:21	GK
Chloromethane	BRL	10		ug/L	208771	1	06/13/2015 16:21	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	208771	1	06/13/2015 16:21	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	208771	1	06/13/2015 16:21	GK
Cyclohexane	BRL	5.0		ug/L	208771	1	06/13/2015 16:21	GK
Dibromochloromethane	BRL	5.0		ug/L	208771	1	06/13/2015 16:21	GK
Dichlorodifluoromethane	BRL	10		ug/L	208771	1	06/13/2015 16:21	GK
Ethylbenzene	BRL	5.0		ug/L	208771	1	06/13/2015 16:21	GK
Freon-113	BRL	10		ug/L	208771	1	06/13/2015 16:21	GK
Isopropylbenzene	BRL	5.0		ug/L	208771	1	06/13/2015 16:21	GK
m,p-Xylene	BRL	5.0		ug/L	208771	1	06/13/2015 16:21	GK
Methyl acetate	BRL	5.0		ug/L	208771	1	06/13/2015 16:21	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	208771	1	06/13/2015 16:21	GK
Methylcyclohexane	BRL	5.0		ug/L	208771	1	06/13/2015 16:21	GK
Methylene chloride	BRL	5.0		ug/L	208771	1	06/13/2015 16:21	GK
o-Xylene	BRL	5.0		ug/L	208771	1	06/13/2015 16:21	GK
Styrene	BRL	5.0		ug/L	208771	1	06/13/2015 16:21	GK
Tetrachloroethene	BRL	5.0		ug/L	208771	1	06/13/2015 16:21	GK
Toluene	BRL	5.0		ug/L	208771	1	06/13/2015 16:21	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	208771	1	06/13/2015 16:21	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	208771	1	06/13/2015 16:21	GK
Trichloroethene	BRL	5.0		ug/L	208771	1	06/13/2015 16:21	GK
Trichlorofluoromethane	BRL	5.0		ug/L	208771	1	06/13/2015 16:21	GK
Vinyl chloride	BRL	2.0		ug/L	208771	1	06/13/2015 16:21	GK
Surr: 4-Bromofluorobenzene	95.9	70.6-123		%REC	208771	1	06/13/2015 16:21	GK

**Qualifiers:**

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- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit



**Analytical Environmental Services, Inc**

**Date:** 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15161-SW-1
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/10/2015 1:13:00 PM
<b>Lab ID:</b> 1506C34-001	<b>Matrix:</b> Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>			<b>(SW5030B)</b>					
Surr: Dibromofluoromethane	102	78.7-124		%REC	208771	1	06/13/2015 16:21	GK
Surr: Toluene-d8	103	81.3-120		%REC	208771	1	06/13/2015 16:21	GK
<b>Mercury, Total SW7470A</b>			<b>(SW7470A)</b>					
Mercury	BRL	0.00020		mg/L	208854	1	06/16/2015 13:46	TA
<b>METALS, TOTAL SW6010C</b>			<b>(SW3010A)</b>					
Arsenic	BRL	0.0500		mg/L	208701	1	06/15/2015 12:19	IO
Barium	0.0457	0.0200		mg/L	208701	1	06/15/2015 12:19	IO
Cadmium	BRL	0.0050		mg/L	208701	1	06/15/2015 12:19	IO
Chromium	0.0178	0.0100		mg/L	208701	1	06/15/2015 12:19	IO
Lead	BRL	0.0100		mg/L	208701	1	06/15/2015 12:19	IO
Nickel	BRL	0.0200		mg/L	208701	1	06/15/2015 12:19	IO
Phosphorus	0.197	0.100		mg/L	208701	1	06/18/2015 13:18	IO
Selenium	BRL	0.0200		mg/L	208701	1	06/15/2015 12:19	IO
Silver	BRL	0.0100		mg/L	208701	1	06/15/2015 12:19	IO
Zinc	0.0370	0.0200		mg/L	208701	1	06/15/2015 12:19	IO

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Analytical Environmental Services, Inc

Date: 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15161-SW-2
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/10/2015 1:24:00 PM
<b>Lab ID:</b> 1506C34-002	<b>Matrix:</b> Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL-SEMIVOLATILE ORGANICS SW8270D (SW3510C)</b>								
1,1'-Biphenyl	BRL	10		ug/L	208676	1	06/15/2015 19:31	YH
2,4,5-Trichlorophenol	BRL	25		ug/L	208676	1	06/15/2015 19:31	YH
2,4,6-Trichlorophenol	BRL	10		ug/L	208676	1	06/15/2015 19:31	YH
2,4-Dichlorophenol	BRL	10		ug/L	208676	1	06/15/2015 19:31	YH
2,4-Dimethylphenol	BRL	10		ug/L	208676	1	06/15/2015 19:31	YH
2,4-Dinitrophenol	BRL	25		ug/L	208676	1	06/15/2015 19:31	YH
2,4-Dinitrotoluene	BRL	10		ug/L	208676	1	06/15/2015 19:31	YH
2,6-Dinitrotoluene	BRL	10		ug/L	208676	1	06/15/2015 19:31	YH
2-Chloronaphthalene	BRL	10		ug/L	208676	1	06/15/2015 19:31	YH
2-Chlorophenol	BRL	10		ug/L	208676	1	06/15/2015 19:31	YH
2-Methylnaphthalene	BRL	10		ug/L	208676	1	06/15/2015 19:31	YH
2-Methylphenol	BRL	10		ug/L	208676	1	06/15/2015 19:31	YH
2-Nitroaniline	BRL	25		ug/L	208676	1	06/15/2015 19:31	YH
2-Nitrophenol	BRL	10		ug/L	208676	1	06/15/2015 19:31	YH
3,3'-Dichlorobenzidine	BRL	10		ug/L	208676	1	06/15/2015 19:31	YH
3-Nitroaniline	BRL	25		ug/L	208676	1	06/15/2015 19:31	YH
4,6-Dinitro-2-methylphenol	BRL	25		ug/L	208676	1	06/15/2015 19:31	YH
4-Bromophenyl phenyl ether	BRL	10		ug/L	208676	1	06/15/2015 19:31	YH
4-Chloro-3-methylphenol	BRL	10		ug/L	208676	1	06/15/2015 19:31	YH
4-Chloroaniline	BRL	10		ug/L	208676	1	06/15/2015 19:31	YH
4-Chlorophenyl phenyl ether	BRL	10		ug/L	208676	1	06/15/2015 19:31	YH
4-Methylphenol	BRL	10		ug/L	208676	1	06/15/2015 19:31	YH
4-Nitroaniline	BRL	25		ug/L	208676	1	06/15/2015 19:31	YH
4-Nitrophenol	BRL	25		ug/L	208676	1	06/15/2015 19:31	YH
Acenaphthene	BRL	10		ug/L	208676	1	06/15/2015 19:31	YH
Acenaphthylene	BRL	10		ug/L	208676	1	06/15/2015 19:31	YH
Acetophenone	BRL	10		ug/L	208676	1	06/15/2015 19:31	YH
Anthracene	BRL	10		ug/L	208676	1	06/15/2015 19:31	YH
Atrazine	BRL	10		ug/L	208676	1	06/15/2015 19:31	YH
Benz(a)anthracene	BRL	10		ug/L	208676	1	06/15/2015 19:31	YH
Benzaldehyde	BRL	10		ug/L	208676	1	06/15/2015 19:31	YH
Benzo(a)pyrene	BRL	10		ug/L	208676	1	06/15/2015 19:31	YH
Benzo(b)fluoranthene	BRL	10		ug/L	208676	1	06/15/2015 19:31	YH
Benzo(g,h,i)perylene	BRL	10		ug/L	208676	1	06/15/2015 19:31	YH
Benzo(k)fluoranthene	BRL	10		ug/L	208676	1	06/15/2015 19:31	YH
Bis(2-chloroethoxy)methane	BRL	10		ug/L	208676	1	06/15/2015 19:31	YH
Bis(2-chloroethyl)ether	BRL	10		ug/L	208676	1	06/15/2015 19:31	YH
Bis(2-chloroisopropyl)ether	BRL	10		ug/L	208676	1	06/15/2015 19:31	YH
Bis(2-ethylhexyl)phthalate	BRL	10		ug/L	208676	1	06/15/2015 19:31	YH
Butyl benzyl phthalate	BRL	10		ug/L	208676	1	06/15/2015 19:31	YH
Caprolactam	BRL	10		ug/L	208676	1	06/15/2015 19:31	YH

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<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15161-SW-2
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/10/2015 1:24:00 PM
<b>Lab ID:</b> 1506C34-002	<b>Matrix:</b> Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL-SEMIVOLATILE ORGANICS SW8270D</b>					<b>(SW3510C)</b>			
Carbazole	BRL	10		ug/L	208676	1	06/15/2015 19:31	YH
Chrysene	BRL	10		ug/L	208676	1	06/15/2015 19:31	YH
Di-n-butyl phthalate	BRL	10		ug/L	208676	1	06/15/2015 19:31	YH
Di-n-octyl phthalate	BRL	10		ug/L	208676	1	06/15/2015 19:31	YH
Dibenz(a,h)anthracene	BRL	10		ug/L	208676	1	06/15/2015 19:31	YH
Dibenzofuran	BRL	10		ug/L	208676	1	06/15/2015 19:31	YH
Diethyl phthalate	BRL	10		ug/L	208676	1	06/15/2015 19:31	YH
Dimethyl phthalate	BRL	10		ug/L	208676	1	06/15/2015 19:31	YH
Fluoranthene	BRL	10		ug/L	208676	1	06/15/2015 19:31	YH
Fluorene	BRL	10		ug/L	208676	1	06/15/2015 19:31	YH
Hexachlorobenzene	BRL	10		ug/L	208676	1	06/15/2015 19:31	YH
Hexachlorobutadiene	BRL	10		ug/L	208676	1	06/15/2015 19:31	YH
Hexachlorocyclopentadiene	BRL	10		ug/L	208676	1	06/15/2015 19:31	YH
Hexachloroethane	BRL	10		ug/L	208676	1	06/15/2015 19:31	YH
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	208676	1	06/15/2015 19:31	YH
Isophorone	BRL	10		ug/L	208676	1	06/15/2015 19:31	YH
N-Nitrosodi-n-propylamine	BRL	10		ug/L	208676	1	06/15/2015 19:31	YH
N-Nitrosodiphenylamine	BRL	10		ug/L	208676	1	06/15/2015 19:31	YH
Naphthalene	BRL	10		ug/L	208676	1	06/15/2015 19:31	YH
Nitrobenzene	BRL	10		ug/L	208676	1	06/15/2015 19:31	YH
Pentachlorophenol	BRL	25		ug/L	208676	1	06/15/2015 19:31	YH
Phenanthrene	BRL	10		ug/L	208676	1	06/15/2015 19:31	YH
Phenol	BRL	10		ug/L	208676	1	06/15/2015 19:31	YH
Pyrene	BRL	10		ug/L	208676	1	06/15/2015 19:31	YH
Surr: 2,4,6-Tribromophenol	87.1	52-133		%REC	208676	1	06/15/2015 19:31	YH
Surr: 2-Fluorobiphenyl	85.2	50-121		%REC	208676	1	06/15/2015 19:31	YH
Surr: 2-Fluorophenol	46.7	27.5-120		%REC	208676	1	06/15/2015 19:31	YH
Surr: 4-Terphenyl-d14	72.7	46.3-137		%REC	208676	1	06/15/2015 19:31	YH
Surr: Nitrobenzene-d5	73.7	41.2-121		%REC	208676	1	06/15/2015 19:31	YH
Surr: Phenol-d5	35.1	14.3-120		%REC	208676	1	06/15/2015 19:31	YH
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5030B)</b>			
1,1,1-Trichloroethane	BRL	5.0		ug/L	208771	1	06/13/2015 16:45	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	208771	1	06/13/2015 16:45	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	208771	1	06/13/2015 16:45	GK
1,1-Dichloroethane	BRL	5.0		ug/L	208771	1	06/13/2015 16:45	GK
1,1-Dichloroethene	BRL	5.0		ug/L	208771	1	06/13/2015 16:45	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	208771	1	06/13/2015 16:45	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	208771	1	06/13/2015 16:45	GK
1,2-Dibromoethane	BRL	5.0		ug/L	208771	1	06/13/2015 16:45	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	208771	1	06/13/2015 16:45	GK

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**Analytical Environmental Services, Inc**

**Date:** 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15161-SW-2
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/10/2015 1:24:00 PM
<b>Lab ID:</b> 1506C34-002	<b>Matrix:</b> Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,2-Dichloroethane	BRL	5.0		ug/L	208771	1	06/13/2015 16:45	GK
1,2-Dichloropropane	BRL	5.0		ug/L	208771	1	06/13/2015 16:45	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	208771	1	06/13/2015 16:45	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	208771	1	06/13/2015 16:45	GK
2-Butanone	BRL	50		ug/L	208771	1	06/13/2015 16:45	GK
2-Hexanone	BRL	10		ug/L	208771	1	06/13/2015 16:45	GK
4-Methyl-2-pentanone	BRL	10		ug/L	208771	1	06/13/2015 16:45	GK
Acetone	BRL	50		ug/L	208771	1	06/13/2015 16:45	GK
Benzene	BRL	5.0		ug/L	208771	1	06/13/2015 16:45	GK
Bromodichloromethane	BRL	5.0		ug/L	208771	1	06/13/2015 16:45	GK
Bromoform	BRL	5.0		ug/L	208771	1	06/13/2015 16:45	GK
Bromomethane	BRL	5.0		ug/L	208771	1	06/13/2015 16:45	GK
Carbon disulfide	BRL	5.0		ug/L	208771	1	06/13/2015 16:45	GK
Carbon tetrachloride	BRL	5.0		ug/L	208771	1	06/13/2015 16:45	GK
Chlorobenzene	BRL	5.0		ug/L	208771	1	06/13/2015 16:45	GK
Chloroethane	BRL	10		ug/L	208771	1	06/13/2015 16:45	GK
Chloroform	BRL	5.0		ug/L	208771	1	06/13/2015 16:45	GK
Chloromethane	BRL	10		ug/L	208771	1	06/13/2015 16:45	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	208771	1	06/13/2015 16:45	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	208771	1	06/13/2015 16:45	GK
Cyclohexane	BRL	5.0		ug/L	208771	1	06/13/2015 16:45	GK
Dibromochloromethane	BRL	5.0		ug/L	208771	1	06/13/2015 16:45	GK
Dichlorodifluoromethane	BRL	10		ug/L	208771	1	06/13/2015 16:45	GK
Ethylbenzene	BRL	5.0		ug/L	208771	1	06/13/2015 16:45	GK
Freon-113	BRL	10		ug/L	208771	1	06/13/2015 16:45	GK
Isopropylbenzene	BRL	5.0		ug/L	208771	1	06/13/2015 16:45	GK
m,p-Xylene	BRL	5.0		ug/L	208771	1	06/13/2015 16:45	GK
Methyl acetate	BRL	5.0		ug/L	208771	1	06/13/2015 16:45	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	208771	1	06/13/2015 16:45	GK
Methylcyclohexane	BRL	5.0		ug/L	208771	1	06/13/2015 16:45	GK
Methylene chloride	BRL	5.0		ug/L	208771	1	06/13/2015 16:45	GK
o-Xylene	BRL	5.0		ug/L	208771	1	06/13/2015 16:45	GK
Styrene	BRL	5.0		ug/L	208771	1	06/13/2015 16:45	GK
Tetrachloroethene	BRL	5.0		ug/L	208771	1	06/13/2015 16:45	GK
Toluene	BRL	5.0		ug/L	208771	1	06/13/2015 16:45	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	208771	1	06/13/2015 16:45	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	208771	1	06/13/2015 16:45	GK
Trichloroethene	BRL	5.0		ug/L	208771	1	06/13/2015 16:45	GK
Trichlorofluoromethane	BRL	5.0		ug/L	208771	1	06/13/2015 16:45	GK
Vinyl chloride	BRL	2.0		ug/L	208771	1	06/13/2015 16:45	GK
Surr: 4-Bromofluorobenzene	95.7	70.6-123		%REC	208771	1	06/13/2015 16:45	GK

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15161-SW-2
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/10/2015 1:24:00 PM
<b>Lab ID:</b> 1506C34-002	<b>Matrix:</b> Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>			<b>(SW5030B)</b>					
Surr: Dibromofluoromethane	104	78.7-124		%REC	208771	1	06/13/2015 16:45	GK
Surr: Toluene-d8	106	81.3-120		%REC	208771	1	06/13/2015 16:45	GK
<b>Mercury, Total SW7470A</b>			<b>(SW7470A)</b>					
Mercury	BRL	0.00020		mg/L	208854	1	06/16/2015 13:47	TA
<b>METALS, TOTAL SW6010C</b>			<b>(SW3010A)</b>					
Arsenic	BRL	0.0500		mg/L	208701	1	06/15/2015 19:00	IO
Barium	0.0378	0.0200		mg/L	208701	1	06/15/2015 19:00	IO
Cadmium	BRL	0.0050		mg/L	208701	1	06/15/2015 19:00	IO
Chromium	BRL	0.0100		mg/L	208701	1	06/15/2015 19:00	IO
Lead	BRL	0.0100		mg/L	208701	1	06/15/2015 19:00	IO
Nickel	BRL	0.0200		mg/L	208701	1	06/15/2015 19:00	IO
Phosphorus	0.216	0.100		mg/L	208701	1	06/18/2015 13:37	IO
Potassium	7.29	0.500		mg/L	208701	1	06/15/2015 19:00	IO
Selenium	BRL	0.0200		mg/L	208701	1	06/15/2015 19:00	IO
Vanadium	BRL	0.0100		mg/L	208701	1	06/15/2015 19:00	IO
Zinc	0.0235	0.0200		mg/L	208701	1	06/15/2015 19:00	IO

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15161-SW-3
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/10/2015 1:34:00 PM
<b>Lab ID:</b> 1506C34-003	<b>Matrix:</b> Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL-SEMIVOLATILE ORGANICS SW8270D (SW3510C)</b>								
1,1'-Biphenyl	BRL	10		ug/L	208676	1	06/15/2015 19:56	YH
2,4,5-Trichlorophenol	BRL	25		ug/L	208676	1	06/15/2015 19:56	YH
2,4,6-Trichlorophenol	BRL	10		ug/L	208676	1	06/15/2015 19:56	YH
2,4-Dichlorophenol	BRL	10		ug/L	208676	1	06/15/2015 19:56	YH
2,4-Dimethylphenol	BRL	10		ug/L	208676	1	06/15/2015 19:56	YH
2,4-Dinitrophenol	BRL	25		ug/L	208676	1	06/15/2015 19:56	YH
2,4-Dinitrotoluene	BRL	10		ug/L	208676	1	06/15/2015 19:56	YH
2,6-Dinitrotoluene	BRL	10		ug/L	208676	1	06/15/2015 19:56	YH
2-Chloronaphthalene	BRL	10		ug/L	208676	1	06/15/2015 19:56	YH
2-Chlorophenol	BRL	10		ug/L	208676	1	06/15/2015 19:56	YH
2-Methylnaphthalene	BRL	10		ug/L	208676	1	06/15/2015 19:56	YH
2-Methylphenol	BRL	10		ug/L	208676	1	06/15/2015 19:56	YH
2-Nitroaniline	BRL	25		ug/L	208676	1	06/15/2015 19:56	YH
2-Nitrophenol	BRL	10		ug/L	208676	1	06/15/2015 19:56	YH
3,3'-Dichlorobenzidine	BRL	10		ug/L	208676	1	06/15/2015 19:56	YH
3-Nitroaniline	BRL	25		ug/L	208676	1	06/15/2015 19:56	YH
4,6-Dinitro-2-methylphenol	BRL	25		ug/L	208676	1	06/15/2015 19:56	YH
4-Bromophenyl phenyl ether	BRL	10		ug/L	208676	1	06/15/2015 19:56	YH
4-Chloro-3-methylphenol	BRL	10		ug/L	208676	1	06/15/2015 19:56	YH
4-Chloroaniline	BRL	10		ug/L	208676	1	06/15/2015 19:56	YH
4-Chlorophenyl phenyl ether	BRL	10		ug/L	208676	1	06/15/2015 19:56	YH
4-Methylphenol	BRL	10		ug/L	208676	1	06/15/2015 19:56	YH
4-Nitroaniline	BRL	25		ug/L	208676	1	06/15/2015 19:56	YH
4-Nitrophenol	BRL	25		ug/L	208676	1	06/15/2015 19:56	YH
Acenaphthene	BRL	10		ug/L	208676	1	06/15/2015 19:56	YH
Acenaphthylene	BRL	10		ug/L	208676	1	06/15/2015 19:56	YH
Acetophenone	BRL	10		ug/L	208676	1	06/15/2015 19:56	YH
Anthracene	BRL	10		ug/L	208676	1	06/15/2015 19:56	YH
Atrazine	BRL	10		ug/L	208676	1	06/15/2015 19:56	YH
Benz(a)anthracene	BRL	10		ug/L	208676	1	06/15/2015 19:56	YH
Benzaldehyde	BRL	10		ug/L	208676	1	06/15/2015 19:56	YH
Benzo(a)pyrene	BRL	10		ug/L	208676	1	06/15/2015 19:56	YH
Benzo(b)fluoranthene	BRL	10		ug/L	208676	1	06/15/2015 19:56	YH
Benzo(g,h,i)perylene	BRL	10		ug/L	208676	1	06/15/2015 19:56	YH
Benzo(k)fluoranthene	BRL	10		ug/L	208676	1	06/15/2015 19:56	YH
Bis(2-chloroethoxy)methane	BRL	10		ug/L	208676	1	06/15/2015 19:56	YH
Bis(2-chloroethyl)ether	BRL	10		ug/L	208676	1	06/15/2015 19:56	YH
Bis(2-chloroisopropyl)ether	BRL	10		ug/L	208676	1	06/15/2015 19:56	YH
Bis(2-ethylhexyl)phthalate	BRL	10		ug/L	208676	1	06/15/2015 19:56	YH
Butyl benzyl phthalate	BRL	10		ug/L	208676	1	06/15/2015 19:56	YH
Caprolactam	BRL	10		ug/L	208676	1	06/15/2015 19:56	YH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
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- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15161-SW-3
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/10/2015 1:34:00 PM
<b>Lab ID:</b> 1506C34-003	<b>Matrix:</b> Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL-SEMIVOLATILE ORGANICS SW8270D</b>					<b>(SW3510C)</b>			
Carbazole	BRL	10		ug/L	208676	1	06/15/2015 19:56	YH
Chrysene	BRL	10		ug/L	208676	1	06/15/2015 19:56	YH
Di-n-butyl phthalate	BRL	10		ug/L	208676	1	06/15/2015 19:56	YH
Di-n-octyl phthalate	BRL	10		ug/L	208676	1	06/15/2015 19:56	YH
Dibenz(a,h)anthracene	BRL	10		ug/L	208676	1	06/15/2015 19:56	YH
Dibenzofuran	BRL	10		ug/L	208676	1	06/15/2015 19:56	YH
Diethyl phthalate	BRL	10		ug/L	208676	1	06/15/2015 19:56	YH
Dimethyl phthalate	BRL	10		ug/L	208676	1	06/15/2015 19:56	YH
Fluoranthene	BRL	10		ug/L	208676	1	06/15/2015 19:56	YH
Fluorene	BRL	10		ug/L	208676	1	06/15/2015 19:56	YH
Hexachlorobenzene	BRL	10		ug/L	208676	1	06/15/2015 19:56	YH
Hexachlorobutadiene	BRL	10		ug/L	208676	1	06/15/2015 19:56	YH
Hexachlorocyclopentadiene	BRL	10		ug/L	208676	1	06/15/2015 19:56	YH
Hexachloroethane	BRL	10		ug/L	208676	1	06/15/2015 19:56	YH
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	208676	1	06/15/2015 19:56	YH
Isophorone	BRL	10		ug/L	208676	1	06/15/2015 19:56	YH
N-Nitrosodi-n-propylamine	BRL	10		ug/L	208676	1	06/15/2015 19:56	YH
N-Nitrosodiphenylamine	BRL	10		ug/L	208676	1	06/15/2015 19:56	YH
Naphthalene	BRL	10		ug/L	208676	1	06/15/2015 19:56	YH
Nitrobenzene	BRL	10		ug/L	208676	1	06/15/2015 19:56	YH
Pentachlorophenol	BRL	25		ug/L	208676	1	06/15/2015 19:56	YH
Phenanthrene	BRL	10		ug/L	208676	1	06/15/2015 19:56	YH
Phenol	BRL	10		ug/L	208676	1	06/15/2015 19:56	YH
Pyrene	BRL	10		ug/L	208676	1	06/15/2015 19:56	YH
Surr: 2,4,6-Tribromophenol	85.4	52-133		%REC	208676	1	06/15/2015 19:56	YH
Surr: 2-Fluorobiphenyl	83.4	50-121		%REC	208676	1	06/15/2015 19:56	YH
Surr: 2-Fluorophenol	50	27.5-120		%REC	208676	1	06/15/2015 19:56	YH
Surr: 4-Terphenyl-d14	74.9	46.3-137		%REC	208676	1	06/15/2015 19:56	YH
Surr: Nitrobenzene-d5	72.5	41.2-121		%REC	208676	1	06/15/2015 19:56	YH
Surr: Phenol-d5	37	14.3-120		%REC	208676	1	06/15/2015 19:56	YH
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5030B)</b>			
1,1,1-Trichloroethane	BRL	5.0		ug/L	208771	1	06/13/2015 17:08	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	208771	1	06/13/2015 17:08	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	208771	1	06/13/2015 17:08	GK
1,1-Dichloroethane	BRL	5.0		ug/L	208771	1	06/13/2015 17:08	GK
1,1-Dichloroethene	BRL	5.0		ug/L	208771	1	06/13/2015 17:08	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	208771	1	06/13/2015 17:08	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	208771	1	06/13/2015 17:08	GK
1,2-Dibromoethane	BRL	5.0		ug/L	208771	1	06/13/2015 17:08	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	208771	1	06/13/2015 17:08	GK

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15161-SW-3
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/10/2015 1:34:00 PM
<b>Lab ID:</b> 1506C34-003	<b>Matrix:</b> Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,2-Dichloroethane	BRL	5.0		ug/L	208771	1	06/13/2015 17:08	GK
1,2-Dichloropropane	BRL	5.0		ug/L	208771	1	06/13/2015 17:08	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	208771	1	06/13/2015 17:08	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	208771	1	06/13/2015 17:08	GK
2-Butanone	BRL	50		ug/L	208771	1	06/13/2015 17:08	GK
2-Hexanone	BRL	10		ug/L	208771	1	06/13/2015 17:08	GK
4-Methyl-2-pentanone	BRL	10		ug/L	208771	1	06/13/2015 17:08	GK
Acetone	BRL	50		ug/L	208771	1	06/13/2015 17:08	GK
Benzene	BRL	5.0		ug/L	208771	1	06/13/2015 17:08	GK
Bromodichloromethane	BRL	5.0		ug/L	208771	1	06/13/2015 17:08	GK
Bromoform	BRL	5.0		ug/L	208771	1	06/13/2015 17:08	GK
Bromomethane	BRL	5.0		ug/L	208771	1	06/13/2015 17:08	GK
Carbon disulfide	BRL	5.0		ug/L	208771	1	06/13/2015 17:08	GK
Carbon tetrachloride	BRL	5.0		ug/L	208771	1	06/13/2015 17:08	GK
Chlorobenzene	BRL	5.0		ug/L	208771	1	06/13/2015 17:08	GK
Chloroethane	BRL	10		ug/L	208771	1	06/13/2015 17:08	GK
Chloroform	BRL	5.0		ug/L	208771	1	06/13/2015 17:08	GK
Chloromethane	BRL	10		ug/L	208771	1	06/13/2015 17:08	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	208771	1	06/13/2015 17:08	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	208771	1	06/13/2015 17:08	GK
Cyclohexane	BRL	5.0		ug/L	208771	1	06/13/2015 17:08	GK
Dibromochloromethane	BRL	5.0		ug/L	208771	1	06/13/2015 17:08	GK
Dichlorodifluoromethane	BRL	10		ug/L	208771	1	06/13/2015 17:08	GK
Ethylbenzene	BRL	5.0		ug/L	208771	1	06/13/2015 17:08	GK
Freon-113	BRL	10		ug/L	208771	1	06/13/2015 17:08	GK
Isopropylbenzene	BRL	5.0		ug/L	208771	1	06/13/2015 17:08	GK
m,p-Xylene	BRL	5.0		ug/L	208771	1	06/13/2015 17:08	GK
Methyl acetate	BRL	5.0		ug/L	208771	1	06/13/2015 17:08	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	208771	1	06/13/2015 17:08	GK
Methylcyclohexane	BRL	5.0		ug/L	208771	1	06/13/2015 17:08	GK
Methylene chloride	BRL	5.0		ug/L	208771	1	06/13/2015 17:08	GK
o-Xylene	BRL	5.0		ug/L	208771	1	06/13/2015 17:08	GK
Styrene	BRL	5.0		ug/L	208771	1	06/13/2015 17:08	GK
Tetrachloroethene	BRL	5.0		ug/L	208771	1	06/13/2015 17:08	GK
Toluene	BRL	5.0		ug/L	208771	1	06/13/2015 17:08	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	208771	1	06/13/2015 17:08	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	208771	1	06/13/2015 17:08	GK
Trichloroethene	BRL	5.0		ug/L	208771	1	06/13/2015 17:08	GK
Trichlorofluoromethane	BRL	5.0		ug/L	208771	1	06/13/2015 17:08	GK
Vinyl chloride	BRL	2.0		ug/L	208771	1	06/13/2015 17:08	GK
Surr: 4-Bromofluorobenzene	96.6	70.6-123		%REC	208771	1	06/13/2015 17:08	GK

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit



**Analytical Environmental Services, Inc**

**Date:** 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15161-SW-3
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/10/2015 1:34:00 PM
<b>Lab ID:</b> 1506C34-003	<b>Matrix:</b> Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>			<b>(SW5030B)</b>					
Surr: Dibromofluoromethane	102	78.7-124		%REC	208771	1	06/13/2015 17:08	GK
Surr: Toluene-d8	102	81.3-120		%REC	208771	1	06/13/2015 17:08	GK
<b>Mercury, Total SW7470A</b>			<b>(SW7470A)</b>					
Mercury	BRL	0.00020		mg/L	208854	1	06/16/2015 13:49	TA
<b>METALS, TOTAL SW6010C</b>			<b>(SW3010A)</b>					
Arsenic	BRL	0.0500		mg/L	208701	1	06/15/2015 19:07	IO
Barium	0.0412	0.0200		mg/L	208701	1	06/15/2015 19:07	IO
Cadmium	BRL	0.0050		mg/L	208701	1	06/15/2015 19:07	IO
Chromium	BRL	0.0100		mg/L	208701	1	06/15/2015 19:07	IO
Lead	BRL	0.0100		mg/L	208701	1	06/15/2015 19:07	IO
Nickel	BRL	0.0200		mg/L	208701	1	06/15/2015 19:07	IO
Phosphorus	0.199	0.100		mg/L	208701	1	06/18/2015 13:39	IO
Potassium	9.07	0.500		mg/L	208701	1	06/15/2015 19:07	IO
Selenium	BRL	0.0200		mg/L	208701	1	06/15/2015 19:07	IO
Vanadium	BRL	0.0100		mg/L	208701	1	06/15/2015 19:07	IO
Zinc	0.0228	0.0200		mg/L	208701	1	06/15/2015 19:07	IO

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15161-MW-1
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/10/2015 12:13:00 PM
<b>Lab ID:</b> 1506C34-004	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL-SEMIVOLATILE ORGANICS SW8270D (SW3510C)</b>								
1,1'-Biphenyl	BRL	10		ug/L	208676	1	06/15/2015 20:21	YH
2,4,5-Trichlorophenol	BRL	25		ug/L	208676	1	06/15/2015 20:21	YH
2,4,6-Trichlorophenol	BRL	10		ug/L	208676	1	06/15/2015 20:21	YH
2,4-Dichlorophenol	BRL	10		ug/L	208676	1	06/15/2015 20:21	YH
2,4-Dimethylphenol	BRL	10		ug/L	208676	1	06/15/2015 20:21	YH
2,4-Dinitrophenol	BRL	25		ug/L	208676	1	06/15/2015 20:21	YH
2,4-Dinitrotoluene	BRL	10		ug/L	208676	1	06/15/2015 20:21	YH
2,6-Dinitrotoluene	BRL	10		ug/L	208676	1	06/15/2015 20:21	YH
2-Chloronaphthalene	BRL	10		ug/L	208676	1	06/15/2015 20:21	YH
2-Chlorophenol	BRL	10		ug/L	208676	1	06/15/2015 20:21	YH
2-Methylnaphthalene	BRL	10		ug/L	208676	1	06/15/2015 20:21	YH
2-Methylphenol	BRL	10		ug/L	208676	1	06/15/2015 20:21	YH
2-Nitroaniline	BRL	25		ug/L	208676	1	06/15/2015 20:21	YH
2-Nitrophenol	BRL	10		ug/L	208676	1	06/15/2015 20:21	YH
3,3'-Dichlorobenzidine	BRL	10		ug/L	208676	1	06/15/2015 20:21	YH
3-Nitroaniline	BRL	25		ug/L	208676	1	06/15/2015 20:21	YH
4,6-Dinitro-2-methylphenol	BRL	25		ug/L	208676	1	06/15/2015 20:21	YH
4-Bromophenyl phenyl ether	BRL	10		ug/L	208676	1	06/15/2015 20:21	YH
4-Chloro-3-methylphenol	BRL	10		ug/L	208676	1	06/15/2015 20:21	YH
4-Chloroaniline	BRL	10		ug/L	208676	1	06/15/2015 20:21	YH
4-Chlorophenyl phenyl ether	BRL	10		ug/L	208676	1	06/15/2015 20:21	YH
4-Methylphenol	BRL	10		ug/L	208676	1	06/15/2015 20:21	YH
4-Nitroaniline	BRL	25		ug/L	208676	1	06/15/2015 20:21	YH
4-Nitrophenol	BRL	25		ug/L	208676	1	06/15/2015 20:21	YH
Acenaphthene	BRL	10		ug/L	208676	1	06/15/2015 20:21	YH
Acenaphthylene	BRL	10		ug/L	208676	1	06/15/2015 20:21	YH
Acetophenone	BRL	10		ug/L	208676	1	06/15/2015 20:21	YH
Anthracene	BRL	10		ug/L	208676	1	06/15/2015 20:21	YH
Atrazine	BRL	10		ug/L	208676	1	06/15/2015 20:21	YH
Benz(a)anthracene	BRL	10		ug/L	208676	1	06/15/2015 20:21	YH
Benzaldehyde	BRL	10		ug/L	208676	1	06/15/2015 20:21	YH
Benzo(a)pyrene	BRL	10		ug/L	208676	1	06/15/2015 20:21	YH
Benzo(b)fluoranthene	BRL	10		ug/L	208676	1	06/15/2015 20:21	YH
Benzo(g,h,i)perylene	BRL	10		ug/L	208676	1	06/15/2015 20:21	YH
Benzo(k)fluoranthene	BRL	10		ug/L	208676	1	06/15/2015 20:21	YH
Bis(2-chloroethoxy)methane	BRL	10		ug/L	208676	1	06/15/2015 20:21	YH
Bis(2-chloroethyl)ether	BRL	10		ug/L	208676	1	06/15/2015 20:21	YH
Bis(2-chloroisopropyl)ether	BRL	10		ug/L	208676	1	06/15/2015 20:21	YH
Bis(2-ethylhexyl)phthalate	BRL	10		ug/L	208676	1	06/15/2015 20:21	YH
Butyl benzyl phthalate	BRL	10		ug/L	208676	1	06/15/2015 20:21	YH
Caprolactam	BRL	10		ug/L	208676	1	06/15/2015 20:21	YH

**Qualifiers:**

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- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
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**Analytical Environmental Services, Inc**

**Date:** 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15161-MW-1
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/10/2015 12:13:00 PM
<b>Lab ID:</b> 1506C34-004	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL-SEMIVOLATILE ORGANICS SW8270D</b>		<b>(SW3510C)</b>						
Carbazole	BRL	10		ug/L	208676	1	06/15/2015 20:21	YH
Chrysene	BRL	10		ug/L	208676	1	06/15/2015 20:21	YH
Di-n-butyl phthalate	BRL	10		ug/L	208676	1	06/15/2015 20:21	YH
Di-n-octyl phthalate	BRL	10		ug/L	208676	1	06/15/2015 20:21	YH
Dibenz(a,h)anthracene	BRL	10		ug/L	208676	1	06/15/2015 20:21	YH
Dibenzofuran	BRL	10		ug/L	208676	1	06/15/2015 20:21	YH
Diethyl phthalate	BRL	10		ug/L	208676	1	06/15/2015 20:21	YH
Dimethyl phthalate	BRL	10		ug/L	208676	1	06/15/2015 20:21	YH
Fluoranthene	BRL	10		ug/L	208676	1	06/15/2015 20:21	YH
Fluorene	BRL	10		ug/L	208676	1	06/15/2015 20:21	YH
Hexachlorobenzene	BRL	10		ug/L	208676	1	06/15/2015 20:21	YH
Hexachlorobutadiene	BRL	10		ug/L	208676	1	06/15/2015 20:21	YH
Hexachlorocyclopentadiene	BRL	10		ug/L	208676	1	06/15/2015 20:21	YH
Hexachloroethane	BRL	10		ug/L	208676	1	06/15/2015 20:21	YH
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	208676	1	06/15/2015 20:21	YH
Isophorone	BRL	10		ug/L	208676	1	06/15/2015 20:21	YH
N-Nitrosodi-n-propylamine	BRL	10		ug/L	208676	1	06/15/2015 20:21	YH
N-Nitrosodiphenylamine	BRL	10		ug/L	208676	1	06/15/2015 20:21	YH
Naphthalene	BRL	10		ug/L	208676	1	06/15/2015 20:21	YH
Nitrobenzene	BRL	10		ug/L	208676	1	06/15/2015 20:21	YH
Pentachlorophenol	BRL	25		ug/L	208676	1	06/15/2015 20:21	YH
Phenanthrene	BRL	10		ug/L	208676	1	06/15/2015 20:21	YH
Phenol	BRL	10		ug/L	208676	1	06/15/2015 20:21	YH
Pyrene	BRL	10		ug/L	208676	1	06/15/2015 20:21	YH
Surr: 2,4,6-Tribromophenol	88.6	52-133		%REC	208676	1	06/15/2015 20:21	YH
Surr: 2-Fluorobiphenyl	81.4	50-121		%REC	208676	1	06/15/2015 20:21	YH
Surr: 2-Fluorophenol	46.9	27.5-120		%REC	208676	1	06/15/2015 20:21	YH
Surr: 4-Terphenyl-d14	79.4	46.3-137		%REC	208676	1	06/15/2015 20:21	YH
Surr: Nitrobenzene-d5	69.4	41.2-121		%REC	208676	1	06/15/2015 20:21	YH
Surr: Phenol-d5	38.1	14.3-120		%REC	208676	1	06/15/2015 20:21	YH
<b>TCL VOLATILE ORGANICS SW8260B</b>		<b>(SW5030B)</b>						
1,1,1-Trichloroethane	BRL	5.0		ug/L	208771	1	06/13/2015 17:32	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	208771	1	06/13/2015 17:32	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	208771	1	06/13/2015 17:32	GK
1,1-Dichloroethane	BRL	5.0		ug/L	208771	1	06/13/2015 17:32	GK
1,1-Dichloroethene	BRL	5.0		ug/L	208771	1	06/13/2015 17:32	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	208771	1	06/13/2015 17:32	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	208771	1	06/13/2015 17:32	GK
1,2-Dibromoethane	BRL	5.0		ug/L	208771	1	06/13/2015 17:32	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	208771	1	06/13/2015 17:32	GK

**Qualifiers:**

- \* Value exceeds maximum contaminant level
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- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15161-MW-1
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/10/2015 12:13:00 PM
<b>Lab ID:</b> 1506C34-004	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,2-Dichloroethane	BRL	5.0		ug/L	208771	1	06/13/2015 17:32	GK
1,2-Dichloropropane	BRL	5.0		ug/L	208771	1	06/13/2015 17:32	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	208771	1	06/13/2015 17:32	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	208771	1	06/13/2015 17:32	GK
2-Butanone	BRL	50		ug/L	208771	1	06/13/2015 17:32	GK
2-Hexanone	BRL	10		ug/L	208771	1	06/13/2015 17:32	GK
4-Methyl-2-pentanone	BRL	10		ug/L	208771	1	06/13/2015 17:32	GK
Acetone	BRL	50		ug/L	208771	1	06/13/2015 17:32	GK
Benzene	BRL	5.0		ug/L	208771	1	06/13/2015 17:32	GK
Bromodichloromethane	BRL	5.0		ug/L	208771	1	06/13/2015 17:32	GK
Bromoform	BRL	5.0		ug/L	208771	1	06/13/2015 17:32	GK
Bromomethane	BRL	5.0		ug/L	208771	1	06/13/2015 17:32	GK
Carbon disulfide	BRL	5.0		ug/L	208771	1	06/13/2015 17:32	GK
Carbon tetrachloride	BRL	5.0		ug/L	208771	1	06/13/2015 17:32	GK
Chlorobenzene	BRL	5.0		ug/L	208771	1	06/13/2015 17:32	GK
Chloroethane	BRL	10		ug/L	208771	1	06/13/2015 17:32	GK
Chloroform	BRL	5.0		ug/L	208771	1	06/13/2015 17:32	GK
Chloromethane	BRL	10		ug/L	208771	1	06/13/2015 17:32	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	208771	1	06/13/2015 17:32	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	208771	1	06/13/2015 17:32	GK
Cyclohexane	BRL	5.0		ug/L	208771	1	06/13/2015 17:32	GK
Dibromochloromethane	BRL	5.0		ug/L	208771	1	06/13/2015 17:32	GK
Dichlorodifluoromethane	BRL	10		ug/L	208771	1	06/13/2015 17:32	GK
Ethylbenzene	BRL	5.0		ug/L	208771	1	06/13/2015 17:32	GK
Freon-113	BRL	10		ug/L	208771	1	06/13/2015 17:32	GK
Isopropylbenzene	BRL	5.0		ug/L	208771	1	06/13/2015 17:32	GK
m,p-Xylene	BRL	5.0		ug/L	208771	1	06/13/2015 17:32	GK
Methyl acetate	BRL	5.0		ug/L	208771	1	06/13/2015 17:32	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	208771	1	06/13/2015 17:32	GK
Methylcyclohexane	BRL	5.0		ug/L	208771	1	06/13/2015 17:32	GK
Methylene chloride	BRL	5.0		ug/L	208771	1	06/13/2015 17:32	GK
o-Xylene	BRL	5.0		ug/L	208771	1	06/13/2015 17:32	GK
Styrene	BRL	5.0		ug/L	208771	1	06/13/2015 17:32	GK
Tetrachloroethene	BRL	5.0		ug/L	208771	1	06/13/2015 17:32	GK
Toluene	BRL	5.0		ug/L	208771	1	06/13/2015 17:32	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	208771	1	06/13/2015 17:32	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	208771	1	06/13/2015 17:32	GK
Trichloroethene	BRL	5.0		ug/L	208771	1	06/13/2015 17:32	GK
Trichlorofluoromethane	BRL	5.0		ug/L	208771	1	06/13/2015 17:32	GK
Vinyl chloride	BRL	2.0		ug/L	208771	1	06/13/2015 17:32	GK
Surr: 4-Bromofluorobenzene	97	70.6-123		%REC	208771	1	06/13/2015 17:32	GK

**Qualifiers:**

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- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
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- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15161-MW-1
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/10/2015 12:13:00 PM
<b>Lab ID:</b> 1506C34-004	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>			<b>(SW5030B)</b>					
Surr: Dibromofluoromethane	104	78.7-124		%REC	208771	1	06/13/2015 17:32	GK
Surr: Toluene-d8	107	81.3-120		%REC	208771	1	06/13/2015 17:32	GK
<b>Mercury, Total SW7470A</b>			<b>(SW7470A)</b>					
Mercury	BRL	0.00020		mg/L	208854	1	06/16/2015 13:51	TA
<b>METALS, TOTAL SW6010C</b>			<b>(SW3010A)</b>					
Arsenic	BRL	0.0500		mg/L	208701	1	06/15/2015 19:11	IO
Barium	0.0914	0.0200		mg/L	208701	1	06/15/2015 19:11	IO
Cadmium	BRL	0.0050		mg/L	208701	1	06/15/2015 19:11	IO
Chromium	BRL	0.0100		mg/L	208701	1	06/15/2015 19:11	IO
Lead	BRL	0.0100		mg/L	208701	1	06/15/2015 19:11	IO
Nickel	BRL	0.0200		mg/L	208701	1	06/15/2015 19:11	IO
Phosphorus	BRL	0.100		mg/L	208701	1	06/18/2015 14:12	IO
Selenium	BRL	0.0200		mg/L	208701	1	06/15/2015 19:11	IO
Silver	BRL	0.0100		mg/L	208701	1	06/15/2015 19:11	IO
Zinc	0.0254	0.0200		mg/L	208701	1	06/15/2015 19:11	IO

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Analytical Environmental Services, Inc

Date: 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15161-MW-2
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/10/2015 10:16:00 AM
<b>Lab ID:</b> 1506C34-005	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL-SEMIVOLATILE ORGANICS SW8270D (SW3510C)</b>								
1,1'-Biphenyl	BRL	10		ug/L	208676	1	06/15/2015 20:47	YH
2,4,5-Trichlorophenol	BRL	25		ug/L	208676	1	06/15/2015 20:47	YH
2,4,6-Trichlorophenol	BRL	10		ug/L	208676	1	06/15/2015 20:47	YH
2,4-Dichlorophenol	BRL	10		ug/L	208676	1	06/15/2015 20:47	YH
2,4-Dimethylphenol	BRL	10		ug/L	208676	1	06/15/2015 20:47	YH
2,4-Dinitrophenol	BRL	25		ug/L	208676	1	06/15/2015 20:47	YH
2,4-Dinitrotoluene	BRL	10		ug/L	208676	1	06/15/2015 20:47	YH
2,6-Dinitrotoluene	BRL	10		ug/L	208676	1	06/15/2015 20:47	YH
2-Chloronaphthalene	BRL	10		ug/L	208676	1	06/15/2015 20:47	YH
2-Chlorophenol	BRL	10		ug/L	208676	1	06/15/2015 20:47	YH
2-Methylnaphthalene	BRL	10		ug/L	208676	1	06/15/2015 20:47	YH
2-Methylphenol	BRL	10		ug/L	208676	1	06/15/2015 20:47	YH
2-Nitroaniline	BRL	25		ug/L	208676	1	06/15/2015 20:47	YH
2-Nitrophenol	BRL	10		ug/L	208676	1	06/15/2015 20:47	YH
3,3'-Dichlorobenzidine	BRL	10		ug/L	208676	1	06/15/2015 20:47	YH
3-Nitroaniline	BRL	25		ug/L	208676	1	06/15/2015 20:47	YH
4,6-Dinitro-2-methylphenol	BRL	25		ug/L	208676	1	06/15/2015 20:47	YH
4-Bromophenyl phenyl ether	BRL	10		ug/L	208676	1	06/15/2015 20:47	YH
4-Chloro-3-methylphenol	BRL	10		ug/L	208676	1	06/15/2015 20:47	YH
4-Chloroaniline	BRL	10		ug/L	208676	1	06/15/2015 20:47	YH
4-Chlorophenyl phenyl ether	BRL	10		ug/L	208676	1	06/15/2015 20:47	YH
4-Methylphenol	BRL	10		ug/L	208676	1	06/15/2015 20:47	YH
4-Nitroaniline	BRL	25		ug/L	208676	1	06/15/2015 20:47	YH
4-Nitrophenol	BRL	25		ug/L	208676	1	06/15/2015 20:47	YH
Acenaphthene	BRL	10		ug/L	208676	1	06/15/2015 20:47	YH
Acenaphthylene	BRL	10		ug/L	208676	1	06/15/2015 20:47	YH
Acetophenone	BRL	10		ug/L	208676	1	06/15/2015 20:47	YH
Anthracene	BRL	10		ug/L	208676	1	06/15/2015 20:47	YH
Atrazine	BRL	10		ug/L	208676	1	06/15/2015 20:47	YH
Benz(a)anthracene	BRL	10		ug/L	208676	1	06/15/2015 20:47	YH
Benzaldehyde	BRL	10		ug/L	208676	1	06/15/2015 20:47	YH
Benzo(a)pyrene	BRL	10		ug/L	208676	1	06/15/2015 20:47	YH
Benzo(b)fluoranthene	BRL	10		ug/L	208676	1	06/15/2015 20:47	YH
Benzo(g,h,i)perylene	BRL	10		ug/L	208676	1	06/15/2015 20:47	YH
Benzo(k)fluoranthene	BRL	10		ug/L	208676	1	06/15/2015 20:47	YH
Bis(2-chloroethoxy)methane	BRL	10		ug/L	208676	1	06/15/2015 20:47	YH
Bis(2-chloroethyl)ether	BRL	10		ug/L	208676	1	06/15/2015 20:47	YH
Bis(2-chloroisopropyl)ether	BRL	10		ug/L	208676	1	06/15/2015 20:47	YH
Bis(2-ethylhexyl)phthalate	BRL	10		ug/L	208676	1	06/15/2015 20:47	YH
Butyl benzyl phthalate	BRL	10		ug/L	208676	1	06/15/2015 20:47	YH
Caprolactam	BRL	10		ug/L	208676	1	06/15/2015 20:47	YH

**Qualifiers:**

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<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15161-MW-2
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/10/2015 10:16:00 AM
<b>Lab ID:</b> 1506C34-005	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL-SEMIVOLATILE ORGANICS SW8270D</b>		<b>(SW3510C)</b>						
Carbazole	BRL	10		ug/L	208676	1	06/15/2015 20:47	YH
Chrysene	BRL	10		ug/L	208676	1	06/15/2015 20:47	YH
Di-n-butyl phthalate	BRL	10		ug/L	208676	1	06/15/2015 20:47	YH
Di-n-octyl phthalate	BRL	10		ug/L	208676	1	06/15/2015 20:47	YH
Dibenz(a,h)anthracene	BRL	10		ug/L	208676	1	06/15/2015 20:47	YH
Dibenzofuran	BRL	10		ug/L	208676	1	06/15/2015 20:47	YH
Diethyl phthalate	BRL	10		ug/L	208676	1	06/15/2015 20:47	YH
Dimethyl phthalate	BRL	10		ug/L	208676	1	06/15/2015 20:47	YH
Fluoranthene	BRL	10		ug/L	208676	1	06/15/2015 20:47	YH
Fluorene	BRL	10		ug/L	208676	1	06/15/2015 20:47	YH
Hexachlorobenzene	BRL	10		ug/L	208676	1	06/15/2015 20:47	YH
Hexachlorobutadiene	BRL	10		ug/L	208676	1	06/15/2015 20:47	YH
Hexachlorocyclopentadiene	BRL	10		ug/L	208676	1	06/15/2015 20:47	YH
Hexachloroethane	BRL	10		ug/L	208676	1	06/15/2015 20:47	YH
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	208676	1	06/15/2015 20:47	YH
Isophorone	BRL	10		ug/L	208676	1	06/15/2015 20:47	YH
N-Nitrosodi-n-propylamine	BRL	10		ug/L	208676	1	06/15/2015 20:47	YH
N-Nitrosodiphenylamine	BRL	10		ug/L	208676	1	06/15/2015 20:47	YH
Naphthalene	BRL	10		ug/L	208676	1	06/15/2015 20:47	YH
Nitrobenzene	BRL	10		ug/L	208676	1	06/15/2015 20:47	YH
Pentachlorophenol	BRL	25		ug/L	208676	1	06/15/2015 20:47	YH
Phenanthrene	BRL	10		ug/L	208676	1	06/15/2015 20:47	YH
Phenol	BRL	10		ug/L	208676	1	06/15/2015 20:47	YH
Pyrene	BRL	10		ug/L	208676	1	06/15/2015 20:47	YH
Surr: 2,4,6-Tribromophenol	65	52-133		%REC	208676	1	06/15/2015 20:47	YH
Surr: 2-Fluorobiphenyl	58.1	50-121		%REC	208676	1	06/15/2015 20:47	YH
Surr: 2-Fluorophenol	39.4	27.5-120		%REC	208676	1	06/15/2015 20:47	YH
Surr: 4-Terphenyl-d14	59.8	46.3-137		%REC	208676	1	06/15/2015 20:47	YH
Surr: Nitrobenzene-d5	50	41.2-121		%REC	208676	1	06/15/2015 20:47	YH
Surr: Phenol-d5	31.5	14.3-120		%REC	208676	1	06/15/2015 20:47	YH
<b>TCL VOLATILE ORGANICS SW8260B</b>		<b>(SW5030B)</b>						
1,1,1-Trichloroethane	BRL	5.0		ug/L	208771	1	06/13/2015 17:55	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	208771	1	06/13/2015 17:55	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	208771	1	06/13/2015 17:55	GK
1,1-Dichloroethane	BRL	5.0		ug/L	208771	1	06/13/2015 17:55	GK
1,1-Dichloroethene	BRL	5.0		ug/L	208771	1	06/13/2015 17:55	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	208771	1	06/13/2015 17:55	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	208771	1	06/13/2015 17:55	GK
1,2-Dibromoethane	BRL	5.0		ug/L	208771	1	06/13/2015 17:55	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	208771	1	06/13/2015 17:55	GK

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15161-MW-2
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/10/2015 10:16:00 AM
<b>Lab ID:</b> 1506C34-005	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,2-Dichloroethane	BRL	5.0		ug/L	208771	1	06/13/2015 17:55	GK
1,2-Dichloropropane	BRL	5.0		ug/L	208771	1	06/13/2015 17:55	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	208771	1	06/13/2015 17:55	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	208771	1	06/13/2015 17:55	GK
2-Butanone	BRL	50		ug/L	208771	1	06/13/2015 17:55	GK
2-Hexanone	BRL	10		ug/L	208771	1	06/13/2015 17:55	GK
4-Methyl-2-pentanone	BRL	10		ug/L	208771	1	06/13/2015 17:55	GK
Acetone	BRL	50		ug/L	208771	1	06/13/2015 17:55	GK
Benzene	BRL	5.0		ug/L	208771	1	06/13/2015 17:55	GK
Bromodichloromethane	BRL	5.0		ug/L	208771	1	06/13/2015 17:55	GK
Bromoform	BRL	5.0		ug/L	208771	1	06/13/2015 17:55	GK
Bromomethane	BRL	5.0		ug/L	208771	1	06/13/2015 17:55	GK
Carbon disulfide	BRL	5.0		ug/L	208771	1	06/13/2015 17:55	GK
Carbon tetrachloride	BRL	5.0		ug/L	208771	1	06/13/2015 17:55	GK
Chlorobenzene	BRL	5.0		ug/L	208771	1	06/13/2015 17:55	GK
Chloroethane	BRL	10		ug/L	208771	1	06/13/2015 17:55	GK
Chloroform	BRL	5.0		ug/L	208771	1	06/13/2015 17:55	GK
Chloromethane	BRL	10		ug/L	208771	1	06/13/2015 17:55	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	208771	1	06/13/2015 17:55	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	208771	1	06/13/2015 17:55	GK
Cyclohexane	BRL	5.0		ug/L	208771	1	06/13/2015 17:55	GK
Dibromochloromethane	BRL	5.0		ug/L	208771	1	06/13/2015 17:55	GK
Dichlorodifluoromethane	BRL	10		ug/L	208771	1	06/13/2015 17:55	GK
Ethylbenzene	BRL	5.0		ug/L	208771	1	06/13/2015 17:55	GK
Freon-113	BRL	10		ug/L	208771	1	06/13/2015 17:55	GK
Isopropylbenzene	BRL	5.0		ug/L	208771	1	06/13/2015 17:55	GK
m,p-Xylene	BRL	5.0		ug/L	208771	1	06/13/2015 17:55	GK
Methyl acetate	BRL	5.0		ug/L	208771	1	06/13/2015 17:55	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	208771	1	06/13/2015 17:55	GK
Methylcyclohexane	BRL	5.0		ug/L	208771	1	06/13/2015 17:55	GK
Methylene chloride	BRL	5.0		ug/L	208771	1	06/13/2015 17:55	GK
o-Xylene	BRL	5.0		ug/L	208771	1	06/13/2015 17:55	GK
Styrene	BRL	5.0		ug/L	208771	1	06/13/2015 17:55	GK
Tetrachloroethene	BRL	5.0		ug/L	208771	1	06/13/2015 17:55	GK
Toluene	BRL	5.0		ug/L	208771	1	06/13/2015 17:55	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	208771	1	06/13/2015 17:55	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	208771	1	06/13/2015 17:55	GK
Trichloroethene	BRL	5.0		ug/L	208771	1	06/13/2015 17:55	GK
Trichlorofluoromethane	BRL	5.0		ug/L	208771	1	06/13/2015 17:55	GK
Vinyl chloride	BRL	2.0		ug/L	208771	1	06/13/2015 17:55	GK
Surr: 4-Bromofluorobenzene	94.9	70.6-123		%REC	208771	1	06/13/2015 17:55	GK

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit



**Analytical Environmental Services, Inc**

**Date:** 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15161-MW-2
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/10/2015 10:16:00 AM
<b>Lab ID:</b> 1506C34-005	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>			<b>(SW5030B)</b>					
Surr: Dibromofluoromethane	98.9	78.7-124		%REC	208771	1	06/13/2015 17:55	GK
Surr: Toluene-d8	102	81.3-120		%REC	208771	1	06/13/2015 17:55	GK
<b>Mercury, Total SW7470A</b>			<b>(SW7470A)</b>					
Mercury	BRL	0.00020		mg/L	208854	1	06/16/2015 13:57	TA
<b>METALS, TOTAL SW6010C</b>			<b>(SW3010A)</b>					
Arsenic	BRL	0.0500		mg/L	208701	1	06/15/2015 19:14	IO
Barium	0.282	0.0200		mg/L	208701	1	06/15/2015 19:14	IO
Cadmium	BRL	0.0050		mg/L	208701	1	06/15/2015 19:14	IO
Chromium	0.0492	0.0100		mg/L	208701	1	06/15/2015 19:14	IO
Lead	0.0102	0.0100		mg/L	208701	1	06/15/2015 19:14	IO
Nickel	BRL	0.0200		mg/L	208701	1	06/15/2015 19:14	IO
Phosphorus	0.228	0.100		mg/L	208701	1	06/18/2015 14:15	IO
Selenium	BRL	0.0200		mg/L	208701	1	06/15/2015 19:14	IO
Silver	BRL	0.0100		mg/L	208701	1	06/15/2015 19:14	IO
Zinc	0.0881	0.0200		mg/L	208701	1	06/15/2015 19:14	IO

**Qualifiers:**

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- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15160-MW-3
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/9/2015 6:07:00 PM
<b>Lab ID:</b> 1506C34-006	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL-SEMIVOLATILE ORGANICS SW8270D (SW3510C)</b>								
1,1'-Biphenyl	BRL	10		ug/L	208676	1	06/15/2015 21:13	YH
2,4,5-Trichlorophenol	BRL	25		ug/L	208676	1	06/15/2015 21:13	YH
2,4,6-Trichlorophenol	BRL	10		ug/L	208676	1	06/15/2015 21:13	YH
2,4-Dichlorophenol	BRL	10		ug/L	208676	1	06/15/2015 21:13	YH
2,4-Dimethylphenol	BRL	10		ug/L	208676	1	06/15/2015 21:13	YH
2,4-Dinitrophenol	BRL	25		ug/L	208676	1	06/15/2015 21:13	YH
2,4-Dinitrotoluene	BRL	10		ug/L	208676	1	06/15/2015 21:13	YH
2,6-Dinitrotoluene	BRL	10		ug/L	208676	1	06/15/2015 21:13	YH
2-Chloronaphthalene	BRL	10		ug/L	208676	1	06/15/2015 21:13	YH
2-Chlorophenol	BRL	10		ug/L	208676	1	06/15/2015 21:13	YH
2-Methylnaphthalene	BRL	10		ug/L	208676	1	06/15/2015 21:13	YH
2-Methylphenol	BRL	10		ug/L	208676	1	06/15/2015 21:13	YH
2-Nitroaniline	BRL	25		ug/L	208676	1	06/15/2015 21:13	YH
2-Nitrophenol	BRL	10		ug/L	208676	1	06/15/2015 21:13	YH
3,3'-Dichlorobenzidine	BRL	10		ug/L	208676	1	06/15/2015 21:13	YH
3-Nitroaniline	BRL	25		ug/L	208676	1	06/15/2015 21:13	YH
4,6-Dinitro-2-methylphenol	BRL	25		ug/L	208676	1	06/15/2015 21:13	YH
4-Bromophenyl phenyl ether	BRL	10		ug/L	208676	1	06/15/2015 21:13	YH
4-Chloro-3-methylphenol	BRL	10		ug/L	208676	1	06/15/2015 21:13	YH
4-Chloroaniline	BRL	10		ug/L	208676	1	06/15/2015 21:13	YH
4-Chlorophenyl phenyl ether	BRL	10		ug/L	208676	1	06/15/2015 21:13	YH
4-Methylphenol	BRL	10		ug/L	208676	1	06/15/2015 21:13	YH
4-Nitroaniline	BRL	25		ug/L	208676	1	06/15/2015 21:13	YH
4-Nitrophenol	BRL	25		ug/L	208676	1	06/15/2015 21:13	YH
Acenaphthene	BRL	10		ug/L	208676	1	06/15/2015 21:13	YH
Acenaphthylene	BRL	10		ug/L	208676	1	06/15/2015 21:13	YH
Acetophenone	BRL	10		ug/L	208676	1	06/15/2015 21:13	YH
Anthracene	BRL	10		ug/L	208676	1	06/15/2015 21:13	YH
Atrazine	BRL	10		ug/L	208676	1	06/15/2015 21:13	YH
Benz(a)anthracene	BRL	10		ug/L	208676	1	06/15/2015 21:13	YH
Benzaldehyde	BRL	10		ug/L	208676	1	06/15/2015 21:13	YH
Benzo(a)pyrene	BRL	10		ug/L	208676	1	06/15/2015 21:13	YH
Benzo(b)fluoranthene	BRL	10		ug/L	208676	1	06/15/2015 21:13	YH
Benzo(g,h,i)perylene	BRL	10		ug/L	208676	1	06/15/2015 21:13	YH
Benzo(k)fluoranthene	BRL	10		ug/L	208676	1	06/15/2015 21:13	YH
Bis(2-chloroethoxy)methane	BRL	10		ug/L	208676	1	06/15/2015 21:13	YH
Bis(2-chloroethyl)ether	BRL	10		ug/L	208676	1	06/15/2015 21:13	YH
Bis(2-chloroisopropyl)ether	BRL	10		ug/L	208676	1	06/15/2015 21:13	YH
Bis(2-ethylhexyl)phthalate	BRL	10		ug/L	208676	1	06/15/2015 21:13	YH
Butyl benzyl phthalate	BRL	10		ug/L	208676	1	06/15/2015 21:13	YH
Caprolactam	BRL	10		ug/L	208676	1	06/15/2015 21:13	YH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
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- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
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- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15160-MW-3
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/9/2015 6:07:00 PM
<b>Lab ID:</b> 1506C34-006	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL-SEMIVOLATILE ORGANICS SW8270D</b>		<b>(SW3510C)</b>						
Carbazole	BRL	10		ug/L	208676	1	06/15/2015 21:13	YH
Chrysene	BRL	10		ug/L	208676	1	06/15/2015 21:13	YH
Di-n-butyl phthalate	BRL	10		ug/L	208676	1	06/15/2015 21:13	YH
Di-n-octyl phthalate	BRL	10		ug/L	208676	1	06/15/2015 21:13	YH
Dibenz(a,h)anthracene	BRL	10		ug/L	208676	1	06/15/2015 21:13	YH
Dibenzofuran	BRL	10		ug/L	208676	1	06/15/2015 21:13	YH
Diethyl phthalate	BRL	10		ug/L	208676	1	06/15/2015 21:13	YH
Dimethyl phthalate	BRL	10		ug/L	208676	1	06/15/2015 21:13	YH
Fluoranthene	BRL	10		ug/L	208676	1	06/15/2015 21:13	YH
Fluorene	BRL	10		ug/L	208676	1	06/15/2015 21:13	YH
Hexachlorobenzene	BRL	10		ug/L	208676	1	06/15/2015 21:13	YH
Hexachlorobutadiene	BRL	10		ug/L	208676	1	06/15/2015 21:13	YH
Hexachlorocyclopentadiene	BRL	10		ug/L	208676	1	06/15/2015 21:13	YH
Hexachloroethane	BRL	10		ug/L	208676	1	06/15/2015 21:13	YH
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	208676	1	06/15/2015 21:13	YH
Isophorone	BRL	10		ug/L	208676	1	06/15/2015 21:13	YH
N-Nitrosodi-n-propylamine	BRL	10		ug/L	208676	1	06/15/2015 21:13	YH
N-Nitrosodiphenylamine	BRL	10		ug/L	208676	1	06/15/2015 21:13	YH
Naphthalene	BRL	10		ug/L	208676	1	06/15/2015 21:13	YH
Nitrobenzene	BRL	10		ug/L	208676	1	06/15/2015 21:13	YH
Pentachlorophenol	BRL	25		ug/L	208676	1	06/15/2015 21:13	YH
Phenanthrene	BRL	10		ug/L	208676	1	06/15/2015 21:13	YH
Phenol	BRL	10		ug/L	208676	1	06/15/2015 21:13	YH
Pyrene	BRL	10		ug/L	208676	1	06/15/2015 21:13	YH
Surr: 2,4,6-Tribromophenol	82.8	52-133		%REC	208676	1	06/15/2015 21:13	YH
Surr: 2-Fluorobiphenyl	80	50-121		%REC	208676	1	06/15/2015 21:13	YH
Surr: 2-Fluorophenol	50.3	27.5-120		%REC	208676	1	06/15/2015 21:13	YH
Surr: 4-Terphenyl-d14	78.7	46.3-137		%REC	208676	1	06/15/2015 21:13	YH
Surr: Nitrobenzene-d5	71.1	41.2-121		%REC	208676	1	06/15/2015 21:13	YH
Surr: Phenol-d5	38	14.3-120		%REC	208676	1	06/15/2015 21:13	YH
<b>TCL VOLATILE ORGANICS SW8260B</b>		<b>(SW5030B)</b>						
1,1,1-Trichloroethane	BRL	5.0		ug/L	208771	1	06/13/2015 18:19	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	208771	1	06/13/2015 18:19	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	208771	1	06/13/2015 18:19	GK
1,1-Dichloroethane	BRL	5.0		ug/L	208771	1	06/13/2015 18:19	GK
1,1-Dichloroethene	BRL	5.0		ug/L	208771	1	06/13/2015 18:19	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	208771	1	06/13/2015 18:19	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	208771	1	06/13/2015 18:19	GK
1,2-Dibromoethane	BRL	5.0		ug/L	208771	1	06/13/2015 18:19	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	208771	1	06/13/2015 18:19	GK

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15160-MW-3
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/9/2015 6:07:00 PM
<b>Lab ID:</b> 1506C34-006	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,2-Dichloroethane	BRL	5.0		ug/L	208771	1	06/13/2015 18:19	GK
1,2-Dichloropropane	BRL	5.0		ug/L	208771	1	06/13/2015 18:19	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	208771	1	06/13/2015 18:19	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	208771	1	06/13/2015 18:19	GK
2-Butanone	BRL	50		ug/L	208771	1	06/13/2015 18:19	GK
2-Hexanone	BRL	10		ug/L	208771	1	06/13/2015 18:19	GK
4-Methyl-2-pentanone	BRL	10		ug/L	208771	1	06/13/2015 18:19	GK
Acetone	BRL	50		ug/L	208771	1	06/13/2015 18:19	GK
Benzene	BRL	5.0		ug/L	208771	1	06/13/2015 18:19	GK
Bromodichloromethane	BRL	5.0		ug/L	208771	1	06/13/2015 18:19	GK
Bromoform	BRL	5.0		ug/L	208771	1	06/13/2015 18:19	GK
Bromomethane	BRL	5.0		ug/L	208771	1	06/13/2015 18:19	GK
Carbon disulfide	BRL	5.0		ug/L	208771	1	06/13/2015 18:19	GK
Carbon tetrachloride	BRL	5.0		ug/L	208771	1	06/13/2015 18:19	GK
Chlorobenzene	BRL	5.0		ug/L	208771	1	06/13/2015 18:19	GK
Chloroethane	BRL	10		ug/L	208771	1	06/13/2015 18:19	GK
Chloroform	BRL	5.0		ug/L	208771	1	06/13/2015 18:19	GK
Chloromethane	BRL	10		ug/L	208771	1	06/13/2015 18:19	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	208771	1	06/13/2015 18:19	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	208771	1	06/13/2015 18:19	GK
Cyclohexane	BRL	5.0		ug/L	208771	1	06/13/2015 18:19	GK
Dibromochloromethane	BRL	5.0		ug/L	208771	1	06/13/2015 18:19	GK
Dichlorodifluoromethane	BRL	10		ug/L	208771	1	06/13/2015 18:19	GK
Ethylbenzene	BRL	5.0		ug/L	208771	1	06/13/2015 18:19	GK
Freon-113	BRL	10		ug/L	208771	1	06/13/2015 18:19	GK
Isopropylbenzene	BRL	5.0		ug/L	208771	1	06/13/2015 18:19	GK
m,p-Xylene	BRL	5.0		ug/L	208771	1	06/13/2015 18:19	GK
Methyl acetate	BRL	5.0		ug/L	208771	1	06/13/2015 18:19	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	208771	1	06/13/2015 18:19	GK
Methylcyclohexane	BRL	5.0		ug/L	208771	1	06/13/2015 18:19	GK
Methylene chloride	BRL	5.0		ug/L	208771	1	06/13/2015 18:19	GK
o-Xylene	BRL	5.0		ug/L	208771	1	06/13/2015 18:19	GK
Styrene	BRL	5.0		ug/L	208771	1	06/13/2015 18:19	GK
Tetrachloroethene	BRL	5.0		ug/L	208771	1	06/13/2015 18:19	GK
Toluene	BRL	5.0		ug/L	208771	1	06/13/2015 18:19	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	208771	1	06/13/2015 18:19	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	208771	1	06/13/2015 18:19	GK
Trichloroethene	BRL	5.0		ug/L	208771	1	06/13/2015 18:19	GK
Trichlorofluoromethane	BRL	5.0		ug/L	208771	1	06/13/2015 18:19	GK
Vinyl chloride	BRL	2.0		ug/L	208771	1	06/13/2015 18:19	GK
Surr: 4-Bromofluorobenzene	93.5	70.6-123		%REC	208771	1	06/13/2015 18:19	GK

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15160-MW-3
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/9/2015 6:07:00 PM
<b>Lab ID:</b> 1506C34-006	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>			<b>(SW5030B)</b>					
Surr: Dibromofluoromethane	105	78.7-124		%REC	208771	1	06/13/2015 18:19	GK
Surr: Toluene-d8	105	81.3-120		%REC	208771	1	06/13/2015 18:19	GK
<b>Mercury, Total SW7470A</b>			<b>(SW7470A)</b>					
Mercury	BRL	0.00020		mg/L	208854	1	06/16/2015 13:59	TA
<b>METALS, TOTAL SW6010C</b>			<b>(SW3010A)</b>					
Arsenic	BRL	0.0500		mg/L	208701	1	06/15/2015 19:18	IO
Barium	0.338	0.0200		mg/L	208701	1	06/15/2015 19:18	IO
Cadmium	BRL	0.0050		mg/L	208701	1	06/15/2015 19:18	IO
Chromium	0.0492	0.0100		mg/L	208701	1	06/15/2015 19:18	IO
Lead	BRL	0.0100		mg/L	208701	1	06/15/2015 19:18	IO
Nickel	0.0290	0.0200		mg/L	208701	1	06/15/2015 19:18	IO
Phosphorus	0.212	0.100		mg/L	208701	1	06/18/2015 14:17	IO
Selenium	BRL	0.0200		mg/L	208701	1	06/15/2015 19:18	IO
Silver	BRL	0.0100		mg/L	208701	1	06/15/2015 19:18	IO
Zinc	0.0934	0.0200		mg/L	208701	1	06/15/2015 19:18	IO

**Qualifiers:**

- \* Value exceeds maximum contaminant level
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- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15160-MW-4
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/9/2015 2:33:00 PM
<b>Lab ID:</b> 1506C34-007	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL-SEMIVOLATILE ORGANICS SW8270D (SW3510C)</b>								
1,1'-Biphenyl	BRL	10		ug/L	208676	1	06/15/2015 21:38	YH
2,4,5-Trichlorophenol	BRL	25		ug/L	208676	1	06/15/2015 21:38	YH
2,4,6-Trichlorophenol	BRL	10		ug/L	208676	1	06/15/2015 21:38	YH
2,4-Dichlorophenol	BRL	10		ug/L	208676	1	06/15/2015 21:38	YH
2,4-Dimethylphenol	BRL	10		ug/L	208676	1	06/15/2015 21:38	YH
2,4-Dinitrophenol	BRL	25		ug/L	208676	1	06/15/2015 21:38	YH
2,4-Dinitrotoluene	BRL	10		ug/L	208676	1	06/15/2015 21:38	YH
2,6-Dinitrotoluene	BRL	10		ug/L	208676	1	06/15/2015 21:38	YH
2-Chloronaphthalene	BRL	10		ug/L	208676	1	06/15/2015 21:38	YH
2-Chlorophenol	BRL	10		ug/L	208676	1	06/15/2015 21:38	YH
2-Methylnaphthalene	BRL	10		ug/L	208676	1	06/15/2015 21:38	YH
2-Methylphenol	BRL	10		ug/L	208676	1	06/15/2015 21:38	YH
2-Nitroaniline	BRL	25		ug/L	208676	1	06/15/2015 21:38	YH
2-Nitrophenol	BRL	10		ug/L	208676	1	06/15/2015 21:38	YH
3,3'-Dichlorobenzidine	BRL	10		ug/L	208676	1	06/15/2015 21:38	YH
3-Nitroaniline	BRL	25		ug/L	208676	1	06/15/2015 21:38	YH
4,6-Dinitro-2-methylphenol	BRL	25		ug/L	208676	1	06/15/2015 21:38	YH
4-Bromophenyl phenyl ether	BRL	10		ug/L	208676	1	06/15/2015 21:38	YH
4-Chloro-3-methylphenol	BRL	10		ug/L	208676	1	06/15/2015 21:38	YH
4-Chloroaniline	BRL	10		ug/L	208676	1	06/15/2015 21:38	YH
4-Chlorophenyl phenyl ether	BRL	10		ug/L	208676	1	06/15/2015 21:38	YH
4-Methylphenol	BRL	10		ug/L	208676	1	06/15/2015 21:38	YH
4-Nitroaniline	BRL	25		ug/L	208676	1	06/15/2015 21:38	YH
4-Nitrophenol	BRL	25		ug/L	208676	1	06/15/2015 21:38	YH
Acenaphthene	BRL	10		ug/L	208676	1	06/15/2015 21:38	YH
Acenaphthylene	BRL	10		ug/L	208676	1	06/15/2015 21:38	YH
Acetophenone	BRL	10		ug/L	208676	1	06/15/2015 21:38	YH
Anthracene	BRL	10		ug/L	208676	1	06/15/2015 21:38	YH
Atrazine	BRL	10		ug/L	208676	1	06/15/2015 21:38	YH
Benz(a)anthracene	BRL	10		ug/L	208676	1	06/15/2015 21:38	YH
Benzaldehyde	BRL	10		ug/L	208676	1	06/15/2015 21:38	YH
Benzo(a)pyrene	BRL	10		ug/L	208676	1	06/15/2015 21:38	YH
Benzo(b)fluoranthene	BRL	10		ug/L	208676	1	06/15/2015 21:38	YH
Benzo(g,h,i)perylene	BRL	10		ug/L	208676	1	06/15/2015 21:38	YH
Benzo(k)fluoranthene	BRL	10		ug/L	208676	1	06/15/2015 21:38	YH
Bis(2-chloroethoxy)methane	BRL	10		ug/L	208676	1	06/15/2015 21:38	YH
Bis(2-chloroethyl)ether	BRL	10		ug/L	208676	1	06/15/2015 21:38	YH
Bis(2-chloroisopropyl)ether	BRL	10		ug/L	208676	1	06/15/2015 21:38	YH
Bis(2-ethylhexyl)phthalate	BRL	10		ug/L	208676	1	06/15/2015 21:38	YH
Butyl benzyl phthalate	BRL	10		ug/L	208676	1	06/15/2015 21:38	YH
Caprolactam	BRL	10		ug/L	208676	1	06/15/2015 21:38	YH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15160-MW-4
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/9/2015 2:33:00 PM
<b>Lab ID:</b> 1506C34-007	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL-SEMIVOLATILE ORGANICS SW8270D</b>					<b>(SW3510C)</b>			
Carbazole	BRL	10		ug/L	208676	1	06/15/2015 21:38	YH
Chrysene	BRL	10		ug/L	208676	1	06/15/2015 21:38	YH
Di-n-butyl phthalate	BRL	10		ug/L	208676	1	06/15/2015 21:38	YH
Di-n-octyl phthalate	BRL	10		ug/L	208676	1	06/15/2015 21:38	YH
Dibenz(a,h)anthracene	BRL	10		ug/L	208676	1	06/15/2015 21:38	YH
Dibenzofuran	BRL	10		ug/L	208676	1	06/15/2015 21:38	YH
Diethyl phthalate	BRL	10		ug/L	208676	1	06/15/2015 21:38	YH
Dimethyl phthalate	BRL	10		ug/L	208676	1	06/15/2015 21:38	YH
Fluoranthene	BRL	10		ug/L	208676	1	06/15/2015 21:38	YH
Fluorene	BRL	10		ug/L	208676	1	06/15/2015 21:38	YH
Hexachlorobenzene	BRL	10		ug/L	208676	1	06/15/2015 21:38	YH
Hexachlorobutadiene	BRL	10		ug/L	208676	1	06/15/2015 21:38	YH
Hexachlorocyclopentadiene	BRL	10		ug/L	208676	1	06/15/2015 21:38	YH
Hexachloroethane	BRL	10		ug/L	208676	1	06/15/2015 21:38	YH
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	208676	1	06/15/2015 21:38	YH
Isophorone	BRL	10		ug/L	208676	1	06/15/2015 21:38	YH
N-Nitrosodi-n-propylamine	BRL	10		ug/L	208676	1	06/15/2015 21:38	YH
N-Nitrosodiphenylamine	BRL	10		ug/L	208676	1	06/15/2015 21:38	YH
Naphthalene	BRL	10		ug/L	208676	1	06/15/2015 21:38	YH
Nitrobenzene	BRL	10		ug/L	208676	1	06/15/2015 21:38	YH
Pentachlorophenol	BRL	25		ug/L	208676	1	06/15/2015 21:38	YH
Phenanthrene	BRL	10		ug/L	208676	1	06/15/2015 21:38	YH
Phenol	BRL	10		ug/L	208676	1	06/15/2015 21:38	YH
Pyrene	BRL	10		ug/L	208676	1	06/15/2015 21:38	YH
Surr: 2,4,6-Tribromophenol	78.4	52-133		%REC	208676	1	06/15/2015 21:38	YH
Surr: 2-Fluorobiphenyl	72.9	50-121		%REC	208676	1	06/15/2015 21:38	YH
Surr: 2-Fluorophenol	50	27.5-120		%REC	208676	1	06/15/2015 21:38	YH
Surr: 4-Terphenyl-d14	74.4	46.3-137		%REC	208676	1	06/15/2015 21:38	YH
Surr: Nitrobenzene-d5	61.9	41.2-121		%REC	208676	1	06/15/2015 21:38	YH
Surr: Phenol-d5	41.5	14.3-120		%REC	208676	1	06/15/2015 21:38	YH
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5030B)</b>			
1,1,1-Trichloroethane	BRL	5.0		ug/L	208771	1	06/13/2015 18:42	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	208771	1	06/13/2015 18:42	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	208771	1	06/13/2015 18:42	GK
1,1-Dichloroethane	BRL	5.0		ug/L	208771	1	06/13/2015 18:42	GK
1,1-Dichloroethene	BRL	5.0		ug/L	208771	1	06/13/2015 18:42	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	208771	1	06/13/2015 18:42	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	208771	1	06/13/2015 18:42	GK
1,2-Dibromoethane	BRL	5.0		ug/L	208771	1	06/13/2015 18:42	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	208771	1	06/13/2015 18:42	GK

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15160-MW-4
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/9/2015 2:33:00 PM
<b>Lab ID:</b> 1506C34-007	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,2-Dichloroethane	BRL	5.0		ug/L	208771	1	06/13/2015 18:42	GK
1,2-Dichloropropane	BRL	5.0		ug/L	208771	1	06/13/2015 18:42	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	208771	1	06/13/2015 18:42	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	208771	1	06/13/2015 18:42	GK
2-Butanone	BRL	50		ug/L	208771	1	06/13/2015 18:42	GK
2-Hexanone	BRL	10		ug/L	208771	1	06/13/2015 18:42	GK
4-Methyl-2-pentanone	BRL	10		ug/L	208771	1	06/13/2015 18:42	GK
Acetone	BRL	50		ug/L	208771	1	06/13/2015 18:42	GK
Benzene	BRL	5.0		ug/L	208771	1	06/13/2015 18:42	GK
Bromodichloromethane	BRL	5.0		ug/L	208771	1	06/13/2015 18:42	GK
Bromoform	BRL	5.0		ug/L	208771	1	06/13/2015 18:42	GK
Bromomethane	BRL	5.0		ug/L	208771	1	06/13/2015 18:42	GK
Carbon disulfide	BRL	5.0		ug/L	208771	1	06/13/2015 18:42	GK
Carbon tetrachloride	BRL	5.0		ug/L	208771	1	06/13/2015 18:42	GK
Chlorobenzene	BRL	5.0		ug/L	208771	1	06/13/2015 18:42	GK
Chloroethane	BRL	10		ug/L	208771	1	06/13/2015 18:42	GK
Chloroform	BRL	5.0		ug/L	208771	1	06/13/2015 18:42	GK
Chloromethane	BRL	10		ug/L	208771	1	06/13/2015 18:42	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	208771	1	06/13/2015 18:42	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	208771	1	06/13/2015 18:42	GK
Cyclohexane	BRL	5.0		ug/L	208771	1	06/13/2015 18:42	GK
Dibromochloromethane	BRL	5.0		ug/L	208771	1	06/13/2015 18:42	GK
Dichlorodifluoromethane	BRL	10		ug/L	208771	1	06/13/2015 18:42	GK
Ethylbenzene	BRL	5.0		ug/L	208771	1	06/13/2015 18:42	GK
Freon-113	BRL	10		ug/L	208771	1	06/13/2015 18:42	GK
Isopropylbenzene	BRL	5.0		ug/L	208771	1	06/13/2015 18:42	GK
m,p-Xylene	BRL	5.0		ug/L	208771	1	06/13/2015 18:42	GK
Methyl acetate	BRL	5.0		ug/L	208771	1	06/13/2015 18:42	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	208771	1	06/13/2015 18:42	GK
Methylcyclohexane	BRL	5.0		ug/L	208771	1	06/13/2015 18:42	GK
Methylene chloride	BRL	5.0		ug/L	208771	1	06/13/2015 18:42	GK
o-Xylene	BRL	5.0		ug/L	208771	1	06/13/2015 18:42	GK
Styrene	BRL	5.0		ug/L	208771	1	06/13/2015 18:42	GK
Tetrachloroethene	BRL	5.0		ug/L	208771	1	06/13/2015 18:42	GK
Toluene	BRL	5.0		ug/L	208771	1	06/13/2015 18:42	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	208771	1	06/13/2015 18:42	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	208771	1	06/13/2015 18:42	GK
Trichloroethene	BRL	5.0		ug/L	208771	1	06/13/2015 18:42	GK
Trichlorofluoromethane	BRL	5.0		ug/L	208771	1	06/13/2015 18:42	GK
Vinyl chloride	BRL	2.0		ug/L	208771	1	06/13/2015 18:42	GK
Surr: 4-Bromofluorobenzene	98.6	70.6-123		%REC	208771	1	06/13/2015 18:42	GK

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit



**Analytical Environmental Services, Inc**

**Date:** 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15160-MW-4
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/9/2015 2:33:00 PM
<b>Lab ID:</b> 1506C34-007	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>			<b>(SW5030B)</b>					
Surr: Dibromofluoromethane	99.3	78.7-124		%REC	208771	1	06/13/2015 18:42	GK
Surr: Toluene-d8	104	81.3-120		%REC	208771	1	06/13/2015 18:42	GK
<b>Mercury, Total SW7470A</b>			<b>(SW7470A)</b>					
Mercury	BRL	0.00020		mg/L	208854	1	06/16/2015 14:01	TA
<b>METALS, TOTAL SW6010C</b>			<b>(SW3010A)</b>					
Arsenic	BRL	0.0500		mg/L	208701	1	06/15/2015 19:22	IO
Barium	0.0985	0.0200		mg/L	208701	1	06/15/2015 19:22	IO
Cadmium	BRL	0.0050		mg/L	208701	1	06/15/2015 19:22	IO
Chromium	BRL	0.0100		mg/L	208701	1	06/15/2015 19:22	IO
Lead	BRL	0.0100		mg/L	208701	1	06/15/2015 19:22	IO
Nickel	BRL	0.0200		mg/L	208701	1	06/15/2015 19:22	IO
Phosphorus	BRL	0.100		mg/L	208701	1	06/18/2015 14:20	IO
Selenium	BRL	0.0200		mg/L	208701	1	06/15/2015 19:22	IO
Silver	BRL	0.0100		mg/L	208701	1	06/15/2015 19:22	IO
Zinc	BRL	0.0200		mg/L	208701	1	06/15/2015 19:22	IO

**Qualifiers:**

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- Narr See case narrative
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Analytical Environmental Services, Inc

Date: 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15160-MW-5
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/9/2015 12:33:00 PM
<b>Lab ID:</b> 1506C34-008	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL-SEMIVOLATILE ORGANICS SW8270D (SW3510C)</b>								
1,1'-Biphenyl	BRL	10		ug/L	208676	1	06/15/2015 17:01	YH
2,4,5-Trichlorophenol	BRL	25		ug/L	208676	1	06/15/2015 17:01	YH
2,4,6-Trichlorophenol	BRL	10		ug/L	208676	1	06/15/2015 17:01	YH
2,4-Dichlorophenol	BRL	10		ug/L	208676	1	06/15/2015 17:01	YH
2,4-Dimethylphenol	BRL	10		ug/L	208676	1	06/15/2015 17:01	YH
2,4-Dinitrophenol	BRL	25		ug/L	208676	1	06/15/2015 17:01	YH
2,4-Dinitrotoluene	BRL	10		ug/L	208676	1	06/15/2015 17:01	YH
2,6-Dinitrotoluene	BRL	10		ug/L	208676	1	06/15/2015 17:01	YH
2-Chloronaphthalene	BRL	10		ug/L	208676	1	06/15/2015 17:01	YH
2-Chlorophenol	BRL	10		ug/L	208676	1	06/15/2015 17:01	YH
2-Methylnaphthalene	BRL	10		ug/L	208676	1	06/15/2015 17:01	YH
2-Methylphenol	BRL	10		ug/L	208676	1	06/15/2015 17:01	YH
2-Nitroaniline	BRL	25		ug/L	208676	1	06/15/2015 17:01	YH
2-Nitrophenol	BRL	10		ug/L	208676	1	06/15/2015 17:01	YH
3,3'-Dichlorobenzidine	BRL	10		ug/L	208676	1	06/15/2015 17:01	YH
3-Nitroaniline	BRL	25		ug/L	208676	1	06/15/2015 17:01	YH
4,6-Dinitro-2-methylphenol	BRL	25		ug/L	208676	1	06/15/2015 17:01	YH
4-Bromophenyl phenyl ether	BRL	10		ug/L	208676	1	06/15/2015 17:01	YH
4-Chloro-3-methylphenol	BRL	10		ug/L	208676	1	06/15/2015 17:01	YH
4-Chloroaniline	BRL	10		ug/L	208676	1	06/15/2015 17:01	YH
4-Chlorophenyl phenyl ether	BRL	10		ug/L	208676	1	06/15/2015 17:01	YH
4-Methylphenol	BRL	10		ug/L	208676	1	06/15/2015 17:01	YH
4-Nitroaniline	BRL	25		ug/L	208676	1	06/15/2015 17:01	YH
4-Nitrophenol	BRL	25		ug/L	208676	1	06/15/2015 17:01	YH
Acenaphthene	BRL	10		ug/L	208676	1	06/15/2015 17:01	YH
Acenaphthylene	BRL	10		ug/L	208676	1	06/15/2015 17:01	YH
Acetophenone	BRL	10		ug/L	208676	1	06/15/2015 17:01	YH
Anthracene	BRL	10		ug/L	208676	1	06/15/2015 17:01	YH
Atrazine	BRL	10		ug/L	208676	1	06/15/2015 17:01	YH
Benz(a)anthracene	BRL	10		ug/L	208676	1	06/15/2015 17:01	YH
Benzaldehyde	BRL	10		ug/L	208676	1	06/15/2015 17:01	YH
Benzo(a)pyrene	BRL	10		ug/L	208676	1	06/15/2015 17:01	YH
Benzo(b)fluoranthene	BRL	10		ug/L	208676	1	06/15/2015 17:01	YH
Benzo(g,h,i)perylene	BRL	10		ug/L	208676	1	06/15/2015 17:01	YH
Benzo(k)fluoranthene	BRL	10		ug/L	208676	1	06/15/2015 17:01	YH
Bis(2-chloroethoxy)methane	BRL	10		ug/L	208676	1	06/15/2015 17:01	YH
Bis(2-chloroethyl)ether	BRL	10		ug/L	208676	1	06/15/2015 17:01	YH
Bis(2-chloroisopropyl)ether	BRL	10		ug/L	208676	1	06/15/2015 17:01	YH
Bis(2-ethylhexyl)phthalate	BRL	10		ug/L	208676	1	06/15/2015 17:01	YH
Butyl benzyl phthalate	BRL	10		ug/L	208676	1	06/15/2015 17:01	YH
Caprolactam	BRL	10		ug/L	208676	1	06/15/2015 17:01	YH

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<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15160-MW-5
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/9/2015 12:33:00 PM
<b>Lab ID:</b> 1506C34-008	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL-SEMIVOLATILE ORGANICS SW8270D</b>		<b>(SW3510C)</b>						
Carbazole	BRL	10		ug/L	208676	1	06/15/2015 17:01	YH
Chrysene	BRL	10		ug/L	208676	1	06/15/2015 17:01	YH
Di-n-butyl phthalate	BRL	10		ug/L	208676	1	06/15/2015 17:01	YH
Di-n-octyl phthalate	BRL	10		ug/L	208676	1	06/15/2015 17:01	YH
Dibenz(a,h)anthracene	BRL	10		ug/L	208676	1	06/15/2015 17:01	YH
Dibenzofuran	BRL	10		ug/L	208676	1	06/15/2015 17:01	YH
Diethyl phthalate	BRL	10		ug/L	208676	1	06/15/2015 17:01	YH
Dimethyl phthalate	BRL	10		ug/L	208676	1	06/15/2015 17:01	YH
Fluoranthene	BRL	10		ug/L	208676	1	06/15/2015 17:01	YH
Fluorene	BRL	10		ug/L	208676	1	06/15/2015 17:01	YH
Hexachlorobenzene	BRL	10		ug/L	208676	1	06/15/2015 17:01	YH
Hexachlorobutadiene	BRL	10		ug/L	208676	1	06/15/2015 17:01	YH
Hexachlorocyclopentadiene	BRL	10		ug/L	208676	1	06/15/2015 17:01	YH
Hexachloroethane	BRL	10		ug/L	208676	1	06/15/2015 17:01	YH
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	208676	1	06/15/2015 17:01	YH
Isophorone	BRL	10		ug/L	208676	1	06/15/2015 17:01	YH
N-Nitrosodi-n-propylamine	BRL	10		ug/L	208676	1	06/15/2015 17:01	YH
N-Nitrosodiphenylamine	BRL	10		ug/L	208676	1	06/15/2015 17:01	YH
Naphthalene	BRL	10		ug/L	208676	1	06/15/2015 17:01	YH
Nitrobenzene	BRL	10		ug/L	208676	1	06/15/2015 17:01	YH
Pentachlorophenol	BRL	25		ug/L	208676	1	06/15/2015 17:01	YH
Phenanthrene	BRL	10		ug/L	208676	1	06/15/2015 17:01	YH
Phenol	BRL	10		ug/L	208676	1	06/15/2015 17:01	YH
Pyrene	BRL	10		ug/L	208676	1	06/15/2015 17:01	YH
Surr: 2,4,6-Tribromophenol	105	52-133		%REC	208676	1	06/15/2015 17:01	YH
Surr: 2-Fluorobiphenyl	93.3	50-121		%REC	208676	1	06/15/2015 17:01	YH
Surr: 2-Fluorophenol	66.3	27.5-120		%REC	208676	1	06/15/2015 17:01	YH
Surr: 4-Terphenyl-d14	105	46.3-137		%REC	208676	1	06/15/2015 17:01	YH
Surr: Nitrobenzene-d5	84.2	41.2-121		%REC	208676	1	06/15/2015 17:01	YH
Surr: Phenol-d5	57.1	14.3-120		%REC	208676	1	06/15/2015 17:01	YH
<b>TCL VOLATILE ORGANICS SW8260B</b>		<b>(SW5030B)</b>						
1,1,1-Trichloroethane	BRL	5.0		ug/L	208771	1	06/13/2015 19:06	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	208771	1	06/13/2015 19:06	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	208771	1	06/13/2015 19:06	GK
1,1-Dichloroethane	BRL	5.0		ug/L	208771	1	06/13/2015 19:06	GK
1,1-Dichloroethene	BRL	5.0		ug/L	208771	1	06/13/2015 19:06	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	208771	1	06/13/2015 19:06	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	208771	1	06/13/2015 19:06	GK
1,2-Dibromoethane	BRL	5.0		ug/L	208771	1	06/13/2015 19:06	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	208771	1	06/13/2015 19:06	GK

**Qualifiers:**

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- S Spike Recovery outside limits due to matrix
- Narr See case narrative
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**Analytical Environmental Services, Inc**

**Date:** 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15160-MW-5
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/9/2015 12:33:00 PM
<b>Lab ID:</b> 1506C34-008	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,2-Dichloroethane	BRL	5.0		ug/L	208771	1	06/13/2015 19:06	GK
1,2-Dichloropropane	BRL	5.0		ug/L	208771	1	06/13/2015 19:06	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	208771	1	06/13/2015 19:06	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	208771	1	06/13/2015 19:06	GK
2-Butanone	BRL	50		ug/L	208771	1	06/13/2015 19:06	GK
2-Hexanone	BRL	10		ug/L	208771	1	06/13/2015 19:06	GK
4-Methyl-2-pentanone	BRL	10		ug/L	208771	1	06/13/2015 19:06	GK
Acetone	BRL	50		ug/L	208771	1	06/13/2015 19:06	GK
Benzene	BRL	5.0		ug/L	208771	1	06/13/2015 19:06	GK
Bromodichloromethane	BRL	5.0		ug/L	208771	1	06/13/2015 19:06	GK
Bromoform	BRL	5.0		ug/L	208771	1	06/13/2015 19:06	GK
Bromomethane	BRL	5.0		ug/L	208771	1	06/13/2015 19:06	GK
Carbon disulfide	BRL	5.0		ug/L	208771	1	06/13/2015 19:06	GK
Carbon tetrachloride	BRL	5.0		ug/L	208771	1	06/13/2015 19:06	GK
Chlorobenzene	BRL	5.0		ug/L	208771	1	06/13/2015 19:06	GK
Chloroethane	BRL	10		ug/L	208771	1	06/13/2015 19:06	GK
Chloroform	BRL	5.0		ug/L	208771	1	06/13/2015 19:06	GK
Chloromethane	BRL	10		ug/L	208771	1	06/13/2015 19:06	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	208771	1	06/13/2015 19:06	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	208771	1	06/13/2015 19:06	GK
Cyclohexane	BRL	5.0		ug/L	208771	1	06/13/2015 19:06	GK
Dibromochloromethane	BRL	5.0		ug/L	208771	1	06/13/2015 19:06	GK
Dichlorodifluoromethane	BRL	10		ug/L	208771	1	06/13/2015 19:06	GK
Ethylbenzene	BRL	5.0		ug/L	208771	1	06/13/2015 19:06	GK
Freon-113	BRL	10		ug/L	208771	1	06/13/2015 19:06	GK
Isopropylbenzene	BRL	5.0		ug/L	208771	1	06/13/2015 19:06	GK
m,p-Xylene	BRL	5.0		ug/L	208771	1	06/13/2015 19:06	GK
Methyl acetate	BRL	5.0		ug/L	208771	1	06/13/2015 19:06	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	208771	1	06/13/2015 19:06	GK
Methylcyclohexane	BRL	5.0		ug/L	208771	1	06/13/2015 19:06	GK
Methylene chloride	BRL	5.0		ug/L	208771	1	06/13/2015 19:06	GK
o-Xylene	BRL	5.0		ug/L	208771	1	06/13/2015 19:06	GK
Styrene	BRL	5.0		ug/L	208771	1	06/13/2015 19:06	GK
Tetrachloroethene	BRL	5.0		ug/L	208771	1	06/13/2015 19:06	GK
Toluene	BRL	5.0		ug/L	208771	1	06/13/2015 19:06	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	208771	1	06/13/2015 19:06	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	208771	1	06/13/2015 19:06	GK
Trichloroethene	BRL	5.0		ug/L	208771	1	06/13/2015 19:06	GK
Trichlorofluoromethane	BRL	5.0		ug/L	208771	1	06/13/2015 19:06	GK
Vinyl chloride	BRL	2.0		ug/L	208771	1	06/13/2015 19:06	GK
Surr: 4-Bromofluorobenzene	95.8	70.6-123		%REC	208771	1	06/13/2015 19:06	GK

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**Analytical Environmental Services, Inc**

**Date:** 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15160-MW-5
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/9/2015 12:33:00 PM
<b>Lab ID:</b> 1506C34-008	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>			<b>(SW5030B)</b>					
Surr: Dibromofluoromethane	101	78.7-124		%REC	208771	1	06/13/2015 19:06	GK
Surr: Toluene-d8	102	81.3-120		%REC	208771	1	06/13/2015 19:06	GK
<b>Mercury, Total SW7470A</b>			<b>(SW7470A)</b>					
Mercury	BRL	0.00020		mg/L	208854	1	06/16/2015 14:03	TA
<b>METALS, TOTAL SW6010C</b>			<b>(SW3010A)</b>					
Arsenic	BRL	0.0500		mg/L	208701	1	06/15/2015 19:26	IO
Barium	0.0468	0.0200		mg/L	208701	1	06/15/2015 19:26	IO
Cadmium	BRL	0.0050		mg/L	208701	1	06/15/2015 19:26	IO
Chromium	BRL	0.0100		mg/L	208701	1	06/15/2015 19:26	IO
Lead	BRL	0.0100		mg/L	208701	1	06/15/2015 19:26	IO
Nickel	BRL	0.0200		mg/L	208701	1	06/15/2015 19:26	IO
Phosphorus	BRL	0.100		mg/L	208701	1	06/18/2015 14:34	IO
Selenium	BRL	0.0200		mg/L	208701	1	06/15/2015 19:26	IO
Silver	BRL	0.0100		mg/L	208701	1	06/15/2015 19:26	IO
Zinc	BRL	0.0200		mg/L	208701	1	06/15/2015 19:26	IO

**Qualifiers:**

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Analytical Environmental Services, Inc

Date: 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15160-MW-6
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/9/2015 10:13:00 AM
<b>Lab ID:</b> 1506C34-009	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL-SEMIVOLATILE ORGANICS SW8270D (SW3510C)</b>								
1,1'-Biphenyl	BRL	10		ug/L	208676	1	06/15/2015 22:04	YH
2,4,5-Trichlorophenol	BRL	25		ug/L	208676	1	06/15/2015 22:04	YH
2,4,6-Trichlorophenol	BRL	10		ug/L	208676	1	06/15/2015 22:04	YH
2,4-Dichlorophenol	BRL	10		ug/L	208676	1	06/15/2015 22:04	YH
2,4-Dimethylphenol	BRL	10		ug/L	208676	1	06/15/2015 22:04	YH
2,4-Dinitrophenol	BRL	25		ug/L	208676	1	06/15/2015 22:04	YH
2,4-Dinitrotoluene	BRL	10		ug/L	208676	1	06/15/2015 22:04	YH
2,6-Dinitrotoluene	BRL	10		ug/L	208676	1	06/15/2015 22:04	YH
2-Chloronaphthalene	BRL	10		ug/L	208676	1	06/15/2015 22:04	YH
2-Chlorophenol	BRL	10		ug/L	208676	1	06/15/2015 22:04	YH
2-Methylnaphthalene	BRL	10		ug/L	208676	1	06/15/2015 22:04	YH
2-Methylphenol	BRL	10		ug/L	208676	1	06/15/2015 22:04	YH
2-Nitroaniline	BRL	25		ug/L	208676	1	06/15/2015 22:04	YH
2-Nitrophenol	BRL	10		ug/L	208676	1	06/15/2015 22:04	YH
3,3'-Dichlorobenzidine	BRL	10		ug/L	208676	1	06/15/2015 22:04	YH
3-Nitroaniline	BRL	25		ug/L	208676	1	06/15/2015 22:04	YH
4,6-Dinitro-2-methylphenol	BRL	25		ug/L	208676	1	06/15/2015 22:04	YH
4-Bromophenyl phenyl ether	BRL	10		ug/L	208676	1	06/15/2015 22:04	YH
4-Chloro-3-methylphenol	BRL	10		ug/L	208676	1	06/15/2015 22:04	YH
4-Chloroaniline	BRL	10		ug/L	208676	1	06/15/2015 22:04	YH
4-Chlorophenyl phenyl ether	BRL	10		ug/L	208676	1	06/15/2015 22:04	YH
4-Methylphenol	BRL	10		ug/L	208676	1	06/15/2015 22:04	YH
4-Nitroaniline	BRL	25		ug/L	208676	1	06/15/2015 22:04	YH
4-Nitrophenol	BRL	25		ug/L	208676	1	06/15/2015 22:04	YH
Acenaphthene	BRL	10		ug/L	208676	1	06/15/2015 22:04	YH
Acenaphthylene	BRL	10		ug/L	208676	1	06/15/2015 22:04	YH
Acetophenone	BRL	10		ug/L	208676	1	06/15/2015 22:04	YH
Anthracene	BRL	10		ug/L	208676	1	06/15/2015 22:04	YH
Atrazine	BRL	10		ug/L	208676	1	06/15/2015 22:04	YH
Benz(a)anthracene	BRL	10		ug/L	208676	1	06/15/2015 22:04	YH
Benzaldehyde	BRL	10		ug/L	208676	1	06/15/2015 22:04	YH
Benzo(a)pyrene	BRL	10		ug/L	208676	1	06/15/2015 22:04	YH
Benzo(b)fluoranthene	BRL	10		ug/L	208676	1	06/15/2015 22:04	YH
Benzo(g,h,i)perylene	BRL	10		ug/L	208676	1	06/15/2015 22:04	YH
Benzo(k)fluoranthene	BRL	10		ug/L	208676	1	06/15/2015 22:04	YH
Bis(2-chloroethoxy)methane	BRL	10		ug/L	208676	1	06/15/2015 22:04	YH
Bis(2-chloroethyl)ether	BRL	10		ug/L	208676	1	06/15/2015 22:04	YH
Bis(2-chloroisopropyl)ether	BRL	10		ug/L	208676	1	06/15/2015 22:04	YH
Bis(2-ethylhexyl)phthalate	13	10		ug/L	208676	1	06/15/2015 22:04	YH
Butyl benzyl phthalate	BRL	10		ug/L	208676	1	06/15/2015 22:04	YH
Caprolactam	BRL	10		ug/L	208676	1	06/15/2015 22:04	YH

**Qualifiers:**

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- BRL Below reporting limit
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- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15160-MW-6
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/9/2015 10:13:00 AM
<b>Lab ID:</b> 1506C34-009	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL-SEMIVOLATILE ORGANICS SW8270D</b>		<b>(SW3510C)</b>						
Carbazole	BRL	10		ug/L	208676	1	06/15/2015 22:04	YH
Chrysene	BRL	10		ug/L	208676	1	06/15/2015 22:04	YH
Di-n-butyl phthalate	BRL	10		ug/L	208676	1	06/15/2015 22:04	YH
Di-n-octyl phthalate	BRL	10		ug/L	208676	1	06/15/2015 22:04	YH
Dibenz(a,h)anthracene	BRL	10		ug/L	208676	1	06/15/2015 22:04	YH
Dibenzofuran	BRL	10		ug/L	208676	1	06/15/2015 22:04	YH
Diethyl phthalate	BRL	10		ug/L	208676	1	06/15/2015 22:04	YH
Dimethyl phthalate	BRL	10		ug/L	208676	1	06/15/2015 22:04	YH
Fluoranthene	BRL	10		ug/L	208676	1	06/15/2015 22:04	YH
Fluorene	BRL	10		ug/L	208676	1	06/15/2015 22:04	YH
Hexachlorobenzene	BRL	10		ug/L	208676	1	06/15/2015 22:04	YH
Hexachlorobutadiene	BRL	10		ug/L	208676	1	06/15/2015 22:04	YH
Hexachlorocyclopentadiene	BRL	10		ug/L	208676	1	06/15/2015 22:04	YH
Hexachloroethane	BRL	10		ug/L	208676	1	06/15/2015 22:04	YH
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	208676	1	06/15/2015 22:04	YH
Isophorone	BRL	10		ug/L	208676	1	06/15/2015 22:04	YH
N-Nitrosodi-n-propylamine	BRL	10		ug/L	208676	1	06/15/2015 22:04	YH
N-Nitrosodiphenylamine	BRL	10		ug/L	208676	1	06/15/2015 22:04	YH
Naphthalene	BRL	10		ug/L	208676	1	06/15/2015 22:04	YH
Nitrobenzene	BRL	10		ug/L	208676	1	06/15/2015 22:04	YH
Pentachlorophenol	BRL	25		ug/L	208676	1	06/15/2015 22:04	YH
Phenanthrene	BRL	10		ug/L	208676	1	06/15/2015 22:04	YH
Phenol	BRL	10		ug/L	208676	1	06/15/2015 22:04	YH
Pyrene	BRL	10		ug/L	208676	1	06/15/2015 22:04	YH
Surr: 2,4,6-Tribromophenol	82.4	52-133		%REC	208676	1	06/15/2015 22:04	YH
Surr: 2-Fluorobiphenyl	82.1	50-121		%REC	208676	1	06/15/2015 22:04	YH
Surr: 2-Fluorophenol	54.1	27.5-120		%REC	208676	1	06/15/2015 22:04	YH
Surr: 4-Terphenyl-d14	77.2	46.3-137		%REC	208676	1	06/15/2015 22:04	YH
Surr: Nitrobenzene-d5	71.3	41.2-121		%REC	208676	1	06/15/2015 22:04	YH
Surr: Phenol-d5	38.1	14.3-120		%REC	208676	1	06/15/2015 22:04	YH
<b>TCL VOLATILE ORGANICS SW8260B</b>		<b>(SW5030B)</b>						
1,1,1-Trichloroethane	BRL	5.0		ug/L	208771	1	06/13/2015 19:29	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	208771	1	06/13/2015 19:29	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	208771	1	06/13/2015 19:29	GK
1,1-Dichloroethane	BRL	5.0		ug/L	208771	1	06/13/2015 19:29	GK
1,1-Dichloroethene	BRL	5.0		ug/L	208771	1	06/13/2015 19:29	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	208771	1	06/13/2015 19:29	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	208771	1	06/13/2015 19:29	GK
1,2-Dibromoethane	BRL	5.0		ug/L	208771	1	06/13/2015 19:29	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	208771	1	06/13/2015 19:29	GK

**Qualifiers:**

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- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15160-MW-6
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/9/2015 10:13:00 AM
<b>Lab ID:</b> 1506C34-009	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,2-Dichloroethane	BRL	5.0		ug/L	208771	1	06/13/2015 19:29	GK
1,2-Dichloropropane	BRL	5.0		ug/L	208771	1	06/13/2015 19:29	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	208771	1	06/13/2015 19:29	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	208771	1	06/13/2015 19:29	GK
2-Butanone	BRL	50		ug/L	208771	1	06/13/2015 19:29	GK
2-Hexanone	BRL	10		ug/L	208771	1	06/13/2015 19:29	GK
4-Methyl-2-pentanone	BRL	10		ug/L	208771	1	06/13/2015 19:29	GK
Acetone	BRL	50		ug/L	208771	1	06/13/2015 19:29	GK
Benzene	BRL	5.0		ug/L	208771	1	06/13/2015 19:29	GK
Bromodichloromethane	BRL	5.0		ug/L	208771	1	06/13/2015 19:29	GK
Bromoform	BRL	5.0		ug/L	208771	1	06/13/2015 19:29	GK
Bromomethane	BRL	5.0		ug/L	208771	1	06/13/2015 19:29	GK
Carbon disulfide	BRL	5.0		ug/L	208771	1	06/13/2015 19:29	GK
Carbon tetrachloride	BRL	5.0		ug/L	208771	1	06/13/2015 19:29	GK
Chlorobenzene	BRL	5.0		ug/L	208771	1	06/13/2015 19:29	GK
Chloroethane	BRL	10		ug/L	208771	1	06/13/2015 19:29	GK
Chloroform	BRL	5.0		ug/L	208771	1	06/13/2015 19:29	GK
Chloromethane	BRL	10		ug/L	208771	1	06/13/2015 19:29	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	208771	1	06/13/2015 19:29	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	208771	1	06/13/2015 19:29	GK
Cyclohexane	BRL	5.0		ug/L	208771	1	06/13/2015 19:29	GK
Dibromochloromethane	BRL	5.0		ug/L	208771	1	06/13/2015 19:29	GK
Dichlorodifluoromethane	BRL	10		ug/L	208771	1	06/13/2015 19:29	GK
Ethylbenzene	BRL	5.0		ug/L	208771	1	06/13/2015 19:29	GK
Freon-113	BRL	10		ug/L	208771	1	06/13/2015 19:29	GK
Isopropylbenzene	BRL	5.0		ug/L	208771	1	06/13/2015 19:29	GK
m,p-Xylene	BRL	5.0		ug/L	208771	1	06/13/2015 19:29	GK
Methyl acetate	BRL	5.0		ug/L	208771	1	06/13/2015 19:29	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	208771	1	06/13/2015 19:29	GK
Methylcyclohexane	BRL	5.0		ug/L	208771	1	06/13/2015 19:29	GK
Methylene chloride	BRL	5.0		ug/L	208771	1	06/13/2015 19:29	GK
o-Xylene	BRL	5.0		ug/L	208771	1	06/13/2015 19:29	GK
Styrene	BRL	5.0		ug/L	208771	1	06/13/2015 19:29	GK
Tetrachloroethene	BRL	5.0		ug/L	208771	1	06/13/2015 19:29	GK
Toluene	BRL	5.0		ug/L	208771	1	06/13/2015 19:29	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	208771	1	06/13/2015 19:29	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	208771	1	06/13/2015 19:29	GK
Trichloroethene	BRL	5.0		ug/L	208771	1	06/13/2015 19:29	GK
Trichlorofluoromethane	BRL	5.0		ug/L	208771	1	06/13/2015 19:29	GK
Vinyl chloride	BRL	2.0		ug/L	208771	1	06/13/2015 19:29	GK
Surr: 4-Bromofluorobenzene	95.9	70.6-123		%REC	208771	1	06/13/2015 19:29	GK

**Qualifiers:**

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- Narr See case narrative
- NC Not confirmed
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**Analytical Environmental Services, Inc**

**Date:** 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15160-MW-6
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/9/2015 10:13:00 AM
<b>Lab ID:</b> 1506C34-009	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>			<b>(SW5030B)</b>					
Surr: Dibromofluoromethane	101	78.7-124		%REC	208771	1	06/13/2015 19:29	GK
Surr: Toluene-d8	106	81.3-120		%REC	208771	1	06/13/2015 19:29	GK
<b>Mercury, Total SW7470A</b>			<b>(SW7470A)</b>					
Mercury	BRL	0.00020		mg/L	208854	1	06/16/2015 14:05	TA
<b>METALS, TOTAL SW6010C</b>			<b>(SW3010A)</b>					
Arsenic	BRL	0.0500		mg/L	208701	1	06/15/2015 19:30	IO
Barium	0.0487	0.0200		mg/L	208701	1	06/15/2015 19:30	IO
Cadmium	BRL	0.0050		mg/L	208701	1	06/15/2015 19:30	IO
Chromium	BRL	0.0100		mg/L	208701	1	06/15/2015 19:30	IO
Lead	BRL	0.0100		mg/L	208701	1	06/15/2015 19:30	IO
Nickel	BRL	0.0200		mg/L	208701	1	06/15/2015 19:30	IO
Phosphorus	BRL	0.100		mg/L	208701	1	06/18/2015 14:37	IO
Selenium	BRL	0.0200		mg/L	208701	1	06/15/2015 19:30	IO
Silver	BRL	0.0100		mg/L	208701	1	06/15/2015 19:30	IO
Zinc	BRL	0.0200		mg/L	208701	1	06/15/2015 19:30	IO

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**Analytical Environmental Services, Inc**

**Date:** 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15161-SD-1
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/10/2015 1:10:00 PM
<b>Lab ID:</b> 1506C34-010	<b>Matrix:</b> Sediment

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TOTAL MERCURY SW7471B</b>								
					<b>(SW7471B)</b>			
Mercury	BRL	0.202		mg/Kg-dry	208773	1	06/15/2015 16:11	TA
<b>TCL-SEMIVOLATILE ORGANICS SW8270D</b>								
					<b>(SW3550C)</b>			
1,1'-Biphenyl	BRL	710		ug/Kg-dry	208413	1	06/12/2015 21:02	YH
2,4,5-Trichlorophenol	BRL	3700		ug/Kg-dry	208413	1	06/12/2015 21:02	YH
2,4,6-Trichlorophenol	BRL	710		ug/Kg-dry	208413	1	06/12/2015 21:02	YH
2,4-Dichlorophenol	BRL	710		ug/Kg-dry	208413	1	06/12/2015 21:02	YH
2,4-Dimethylphenol	BRL	710		ug/Kg-dry	208413	1	06/12/2015 21:02	YH
2,4-Dinitrophenol	BRL	3700		ug/Kg-dry	208413	1	06/12/2015 21:02	YH
2,4-Dinitrotoluene	BRL	710		ug/Kg-dry	208413	1	06/12/2015 21:02	YH
2,6-Dinitrotoluene	BRL	710		ug/Kg-dry	208413	1	06/12/2015 21:02	YH
2-Chloronaphthalene	BRL	710		ug/Kg-dry	208413	1	06/12/2015 21:02	YH
2-Chlorophenol	BRL	710		ug/Kg-dry	208413	1	06/12/2015 21:02	YH
2-Methylnaphthalene	BRL	710		ug/Kg-dry	208413	1	06/12/2015 21:02	YH
2-Methylphenol	BRL	710		ug/Kg-dry	208413	1	06/12/2015 21:02	YH
2-Nitroaniline	BRL	3700		ug/Kg-dry	208413	1	06/12/2015 21:02	YH
2-Nitrophenol	BRL	710		ug/Kg-dry	208413	1	06/12/2015 21:02	YH
3,3'-Dichlorobenzidine	BRL	1400		ug/Kg-dry	208413	1	06/12/2015 21:02	YH
3-Nitroaniline	BRL	3700		ug/Kg-dry	208413	1	06/12/2015 21:02	YH
4,6-Dinitro-2-methylphenol	BRL	3700		ug/Kg-dry	208413	1	06/12/2015 21:02	YH
4-Bromophenyl phenyl ether	BRL	710		ug/Kg-dry	208413	1	06/12/2015 21:02	YH
4-Chloro-3-methylphenol	BRL	710		ug/Kg-dry	208413	1	06/12/2015 21:02	YH
4-Chloroaniline	BRL	710		ug/Kg-dry	208413	1	06/12/2015 21:02	YH
4-Chlorophenyl phenyl ether	BRL	710		ug/Kg-dry	208413	1	06/12/2015 21:02	YH
4-Methylphenol	BRL	710		ug/Kg-dry	208413	1	06/12/2015 21:02	YH
4-Nitroaniline	BRL	3700		ug/Kg-dry	208413	1	06/12/2015 21:02	YH
4-Nitrophenol	BRL	3700		ug/Kg-dry	208413	1	06/12/2015 21:02	YH
Acenaphthene	BRL	710		ug/Kg-dry	208413	1	06/12/2015 21:02	YH
Acenaphthylene	BRL	710		ug/Kg-dry	208413	1	06/12/2015 21:02	YH
Acetophenone	BRL	710		ug/Kg-dry	208413	1	06/12/2015 21:02	YH
Anthracene	BRL	710		ug/Kg-dry	208413	1	06/12/2015 21:02	YH
Atrazine	BRL	710		ug/Kg-dry	208413	1	06/12/2015 21:02	YH
Benz(a)anthracene	BRL	710		ug/Kg-dry	208413	1	06/12/2015 21:02	YH
Benzaldehyde	BRL	710		ug/Kg-dry	208413	1	06/12/2015 21:02	YH
Benzo(a)pyrene	BRL	710		ug/Kg-dry	208413	1	06/12/2015 21:02	YH
Benzo(b)fluoranthene	BRL	710		ug/Kg-dry	208413	1	06/12/2015 21:02	YH
Benzo(g,h,i)perylene	BRL	710		ug/Kg-dry	208413	1	06/12/2015 21:02	YH
Benzo(k)fluoranthene	BRL	710		ug/Kg-dry	208413	1	06/12/2015 21:02	YH
Bis(2-chloroethoxy)methane	BRL	710		ug/Kg-dry	208413	1	06/12/2015 21:02	YH
Bis(2-chloroethyl)ether	BRL	710		ug/Kg-dry	208413	1	06/12/2015 21:02	YH
Bis(2-chloroisopropyl)ether	BRL	710		ug/Kg-dry	208413	1	06/12/2015 21:02	YH

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<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15161-SD-1
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/10/2015 1:10:00 PM
<b>Lab ID:</b> 1506C34-010	<b>Matrix:</b> Sediment

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL-SEMIVOLATILE ORGANICS SW8270D</b>		<b>(SW3550C)</b>						
Bis(2-ethylhexyl)phthalate	BRL	710		ug/Kg-dry	208413	1	06/12/2015 21:02	YH
Butyl benzyl phthalate	BRL	710		ug/Kg-dry	208413	1	06/12/2015 21:02	YH
Caprolactam	BRL	710		ug/Kg-dry	208413	1	06/12/2015 21:02	YH
Carbazole	BRL	710		ug/Kg-dry	208413	1	06/12/2015 21:02	YH
Chrysene	BRL	710		ug/Kg-dry	208413	1	06/12/2015 21:02	YH
Di-n-butyl phthalate	BRL	710		ug/Kg-dry	208413	1	06/12/2015 21:02	YH
Di-n-octyl phthalate	BRL	710		ug/Kg-dry	208413	1	06/12/2015 21:02	YH
Dibenz(a,h)anthracene	BRL	710		ug/Kg-dry	208413	1	06/12/2015 21:02	YH
Dibenzofuran	BRL	710		ug/Kg-dry	208413	1	06/12/2015 21:02	YH
Diethyl phthalate	BRL	710		ug/Kg-dry	208413	1	06/12/2015 21:02	YH
Dimethyl phthalate	BRL	710		ug/Kg-dry	208413	1	06/12/2015 21:02	YH
Fluoranthene	BRL	710		ug/Kg-dry	208413	1	06/12/2015 21:02	YH
Fluorene	BRL	710		ug/Kg-dry	208413	1	06/12/2015 21:02	YH
Hexachlorobenzene	BRL	710		ug/Kg-dry	208413	1	06/12/2015 21:02	YH
Hexachlorobutadiene	BRL	710		ug/Kg-dry	208413	1	06/12/2015 21:02	YH
Hexachlorocyclopentadiene	BRL	1400		ug/Kg-dry	208413	1	06/12/2015 21:02	YH
Hexachloroethane	BRL	710		ug/Kg-dry	208413	1	06/12/2015 21:02	YH
Indeno(1,2,3-cd)pyrene	BRL	710		ug/Kg-dry	208413	1	06/12/2015 21:02	YH
Isophorone	BRL	710		ug/Kg-dry	208413	1	06/12/2015 21:02	YH
N-Nitrosodi-n-propylamine	BRL	710		ug/Kg-dry	208413	1	06/12/2015 21:02	YH
N-Nitrosodiphenylamine	BRL	710		ug/Kg-dry	208413	1	06/12/2015 21:02	YH
Naphthalene	BRL	710		ug/Kg-dry	208413	1	06/12/2015 21:02	YH
Nitrobenzene	BRL	710		ug/Kg-dry	208413	1	06/12/2015 21:02	YH
Pentachlorophenol	BRL	3700		ug/Kg-dry	208413	1	06/12/2015 21:02	YH
Phenanthrene	BRL	710		ug/Kg-dry	208413	1	06/12/2015 21:02	YH
Phenol	BRL	710		ug/Kg-dry	208413	1	06/12/2015 21:02	YH
Pyrene	BRL	710		ug/Kg-dry	208413	1	06/12/2015 21:02	YH
Surr: 2,4,6-Tribromophenol	85.4	41-128		%REC	208413	1	06/12/2015 21:02	YH
Surr: 2-Fluorobiphenyl	81.2	47-120		%REC	208413	1	06/12/2015 21:02	YH
Surr: 2-Fluorophenol	67.5	38.3-120		%REC	208413	1	06/12/2015 21:02	YH
Surr: 4-Terphenyl-d14	77.8	51.4-125		%REC	208413	1	06/12/2015 21:02	YH
Surr: Nitrobenzene-d5	90.8	40.1-120		%REC	208413	1	06/12/2015 21:02	YH
Surr: Phenol-d5	87.5	40.3-120		%REC	208413	1	06/12/2015 21:02	YH
<b>TCL VOLATILE ORGANICS SW8260B</b>		<b>(SW5035)</b>						
1,1,1-Trichloroethane	BRL	5.0		ug/Kg-dry	208832	1	06/15/2015 12:00	CG
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/Kg-dry	208832	1	06/15/2015 12:00	CG
1,1,2-Trichloroethane	BRL	5.0		ug/Kg-dry	208832	1	06/15/2015 12:00	CG
1,1-Dichloroethane	BRL	5.0		ug/Kg-dry	208832	1	06/15/2015 12:00	CG
1,1-Dichloroethene	BRL	5.0		ug/Kg-dry	208832	1	06/15/2015 12:00	CG
1,2,4-Trichlorobenzene	BRL	5.0		ug/Kg-dry	208832	1	06/15/2015 12:00	CG

**Qualifiers:**

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- BRL Below reporting limit
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- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
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Analytical Environmental Services, Inc

Date: 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15161-SD-1
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/10/2015 1:10:00 PM
<b>Lab ID:</b> 1506C34-010	<b>Matrix:</b> Sediment

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/Kg-dry	208832	1	06/15/2015 12:00	CG
1,2-Dibromoethane	BRL	5.0		ug/Kg-dry	208832	1	06/15/2015 12:00	CG
1,2-Dichlorobenzene	BRL	5.0		ug/Kg-dry	208832	1	06/15/2015 12:00	CG
1,2-Dichloroethane	BRL	5.0		ug/Kg-dry	208832	1	06/15/2015 12:00	CG
1,2-Dichloropropane	BRL	5.0		ug/Kg-dry	208832	1	06/15/2015 12:00	CG
1,3-Dichlorobenzene	BRL	5.0		ug/Kg-dry	208832	1	06/15/2015 12:00	CG
1,4-Dichlorobenzene	BRL	5.0		ug/Kg-dry	208832	1	06/15/2015 12:00	CG
2-Butanone	BRL	50		ug/Kg-dry	208832	1	06/15/2015 12:00	CG
2-Hexanone	BRL	10		ug/Kg-dry	208832	1	06/15/2015 12:00	CG
4-Methyl-2-pentanone	BRL	10		ug/Kg-dry	208832	1	06/15/2015 12:00	CG
Acetone	290	100		ug/Kg-dry	208832	1	06/15/2015 12:00	CG
Benzene	BRL	5.0		ug/Kg-dry	208832	1	06/15/2015 12:00	CG
Bromodichloromethane	BRL	5.0		ug/Kg-dry	208832	1	06/15/2015 12:00	CG
Bromoform	BRL	5.0		ug/Kg-dry	208832	1	06/15/2015 12:00	CG
Bromomethane	BRL	5.0		ug/Kg-dry	208832	1	06/15/2015 12:00	CG
Carbon disulfide	BRL	10		ug/Kg-dry	208832	1	06/15/2015 12:00	CG
Carbon tetrachloride	BRL	5.0		ug/Kg-dry	208832	1	06/15/2015 12:00	CG
Chlorobenzene	BRL	5.0		ug/Kg-dry	208832	1	06/15/2015 12:00	CG
Chloroethane	BRL	10		ug/Kg-dry	208832	1	06/15/2015 12:00	CG
Chloroform	BRL	5.0		ug/Kg-dry	208832	1	06/15/2015 12:00	CG
Chloromethane	BRL	10		ug/Kg-dry	208832	1	06/15/2015 12:00	CG
cis-1,2-Dichloroethene	BRL	5.0		ug/Kg-dry	208832	1	06/15/2015 12:00	CG
cis-1,3-Dichloropropene	BRL	5.0		ug/Kg-dry	208832	1	06/15/2015 12:00	CG
Cyclohexane	BRL	5.0		ug/Kg-dry	208832	1	06/15/2015 12:00	CG
Dibromochloromethane	BRL	5.0		ug/Kg-dry	208832	1	06/15/2015 12:00	CG
Dichlorodifluoromethane	BRL	10		ug/Kg-dry	208832	1	06/15/2015 12:00	CG
Ethylbenzene	BRL	5.0		ug/Kg-dry	208832	1	06/15/2015 12:00	CG
Freon-113	BRL	10		ug/Kg-dry	208832	1	06/15/2015 12:00	CG
Isopropylbenzene	BRL	5.0		ug/Kg-dry	208832	1	06/15/2015 12:00	CG
m,p-Xylene	BRL	5.0		ug/Kg-dry	208832	1	06/15/2015 12:00	CG
Methyl acetate	BRL	5.0		ug/Kg-dry	208832	1	06/15/2015 12:00	CG
Methyl tert-butyl ether	BRL	5.0		ug/Kg-dry	208832	1	06/15/2015 12:00	CG
Methylcyclohexane	BRL	5.0		ug/Kg-dry	208832	1	06/15/2015 12:00	CG
Methylene chloride	BRL	20		ug/Kg-dry	208832	1	06/15/2015 12:00	CG
o-Xylene	BRL	5.0		ug/Kg-dry	208832	1	06/15/2015 12:00	CG
Styrene	BRL	5.0		ug/Kg-dry	208832	1	06/15/2015 12:00	CG
Tetrachloroethene	BRL	5.0		ug/Kg-dry	208832	1	06/15/2015 12:00	CG
Toluene	BRL	5.0		ug/Kg-dry	208832	1	06/15/2015 12:00	CG
trans-1,2-Dichloroethene	BRL	5.0		ug/Kg-dry	208832	1	06/15/2015 12:00	CG
trans-1,3-Dichloropropene	BRL	5.0		ug/Kg-dry	208832	1	06/15/2015 12:00	CG
Trichloroethene	BRL	5.0		ug/Kg-dry	208832	1	06/15/2015 12:00	CG

**Qualifiers:** \* Value exceeds maximum contaminant level  
 BRL Below reporting limit  
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E Estimated (value above quantitation range)  
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 Narr See case narrative  
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**Analytical Environmental Services, Inc**

**Date:** 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15161-SD-1
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/10/2015 1:10:00 PM
<b>Lab ID:</b> 1506C34-010	<b>Matrix:</b> Sediment

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>			<b>(SW5035)</b>					
Trichlorofluoromethane	BRL	5.0		ug/Kg-dry	208832	1	06/15/2015 12:00	CG
Vinyl chloride	BRL	10		ug/Kg-dry	208832	1	06/15/2015 12:00	CG
Surr: 4-Bromofluorobenzene	74.7	70-128		%REC	208832	1	06/15/2015 12:00	CG
Surr: Dibromofluoromethane	115	78.2-128		%REC	208832	1	06/15/2015 12:00	CG
Surr: Toluene-d8	86.8	76.5-116		%REC	208832	1	06/15/2015 12:00	CG
<b>METALS, TOTAL SW6010C</b>			<b>(SW3050B)</b>					
Arsenic	BRL	10.5		mg/Kg-dry	208707	1	06/13/2015 02:12	TA
Barium	75.6	10.5		mg/Kg-dry	208707	1	06/13/2015 02:12	TA
Cadmium	BRL	5.26		mg/Kg-dry	208707	1	06/13/2015 02:12	TA
Chromium	632	5.26		mg/Kg-dry	208707	1	06/13/2015 02:12	TA
Lead	71.0	10.5		mg/Kg-dry	208707	1	06/13/2015 02:12	TA
Nickel	10.9	10.5		mg/Kg-dry	208707	1	06/13/2015 02:12	TA
Phosphorus	877	52.6		mg/Kg-dry	208707	1	06/15/2015 16:38	IO
Selenium	BRL	10.5		mg/Kg-dry	208707	1	06/13/2015 02:12	TA
Silver	BRL	5.26		mg/Kg-dry	208707	1	06/13/2015 02:12	TA
Zinc	248	10.5		mg/Kg-dry	208707	1	06/13/2015 02:12	TA
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	53.7	0		wt%	R293980	1	06/16/2015 10:00	PF

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Analytical Environmental Services, Inc

Date: 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15161-SD-2
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/10/2015 1:20:00 PM
<b>Lab ID:</b> 1506C34-011	<b>Matrix:</b> Sediment

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TOTAL MERCURY SW7471B</b>								
					<b>(SW7471B)</b>			
Mercury	BRL	0.142		mg/Kg-dry	208773	1	06/15/2015 16:13	TA
<b>TCL-SEMIVOLATILE ORGANICS SW8270D</b>								
					<b>(SW3550C)</b>			
1,1'-Biphenyl	BRL	490		ug/Kg-dry	208413	1	06/12/2015 21:27	YH
2,4,5-Trichlorophenol	BRL	2500		ug/Kg-dry	208413	1	06/12/2015 21:27	YH
2,4,6-Trichlorophenol	BRL	490		ug/Kg-dry	208413	1	06/12/2015 21:27	YH
2,4-Dichlorophenol	BRL	490		ug/Kg-dry	208413	1	06/12/2015 21:27	YH
2,4-Dimethylphenol	BRL	490		ug/Kg-dry	208413	1	06/12/2015 21:27	YH
2,4-Dinitrophenol	BRL	2500		ug/Kg-dry	208413	1	06/12/2015 21:27	YH
2,4-Dinitrotoluene	BRL	490		ug/Kg-dry	208413	1	06/12/2015 21:27	YH
2,6-Dinitrotoluene	BRL	490		ug/Kg-dry	208413	1	06/12/2015 21:27	YH
2-Chloronaphthalene	BRL	490		ug/Kg-dry	208413	1	06/12/2015 21:27	YH
2-Chlorophenol	BRL	490		ug/Kg-dry	208413	1	06/12/2015 21:27	YH
2-Methylnaphthalene	BRL	490		ug/Kg-dry	208413	1	06/12/2015 21:27	YH
2-Methylphenol	BRL	490		ug/Kg-dry	208413	1	06/12/2015 21:27	YH
2-Nitroaniline	BRL	2500		ug/Kg-dry	208413	1	06/12/2015 21:27	YH
2-Nitrophenol	BRL	490		ug/Kg-dry	208413	1	06/12/2015 21:27	YH
3,3'-Dichlorobenzidine	BRL	1000		ug/Kg-dry	208413	1	06/12/2015 21:27	YH
3-Nitroaniline	BRL	2500		ug/Kg-dry	208413	1	06/12/2015 21:27	YH
4,6-Dinitro-2-methylphenol	BRL	2500		ug/Kg-dry	208413	1	06/12/2015 21:27	YH
4-Bromophenyl phenyl ether	BRL	490		ug/Kg-dry	208413	1	06/12/2015 21:27	YH
4-Chloro-3-methylphenol	BRL	490		ug/Kg-dry	208413	1	06/12/2015 21:27	YH
4-Chloroaniline	BRL	490		ug/Kg-dry	208413	1	06/12/2015 21:27	YH
4-Chlorophenyl phenyl ether	BRL	490		ug/Kg-dry	208413	1	06/12/2015 21:27	YH
4-Methylphenol	BRL	490		ug/Kg-dry	208413	1	06/12/2015 21:27	YH
4-Nitroaniline	BRL	2500		ug/Kg-dry	208413	1	06/12/2015 21:27	YH
4-Nitrophenol	BRL	2500		ug/Kg-dry	208413	1	06/12/2015 21:27	YH
Acenaphthene	BRL	490		ug/Kg-dry	208413	1	06/12/2015 21:27	YH
Acenaphthylene	BRL	490		ug/Kg-dry	208413	1	06/12/2015 21:27	YH
Acetophenone	BRL	490		ug/Kg-dry	208413	1	06/12/2015 21:27	YH
Anthracene	BRL	490		ug/Kg-dry	208413	1	06/12/2015 21:27	YH
Atrazine	BRL	490		ug/Kg-dry	208413	1	06/12/2015 21:27	YH
Benz(a)anthracene	BRL	490		ug/Kg-dry	208413	1	06/12/2015 21:27	YH
Benzaldehyde	BRL	490		ug/Kg-dry	208413	1	06/12/2015 21:27	YH
Benzo(a)pyrene	BRL	490		ug/Kg-dry	208413	1	06/12/2015 21:27	YH
Benzo(b)fluoranthene	BRL	490		ug/Kg-dry	208413	1	06/12/2015 21:27	YH
Benzo(g,h,i)perylene	BRL	490		ug/Kg-dry	208413	1	06/12/2015 21:27	YH
Benzo(k)fluoranthene	BRL	490		ug/Kg-dry	208413	1	06/12/2015 21:27	YH
Bis(2-chloroethoxy)methane	BRL	490		ug/Kg-dry	208413	1	06/12/2015 21:27	YH
Bis(2-chloroethyl)ether	BRL	490		ug/Kg-dry	208413	1	06/12/2015 21:27	YH
Bis(2-chloroisopropyl)ether	BRL	490		ug/Kg-dry	208413	1	06/12/2015 21:27	YH

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**Analytical Environmental Services, Inc**

**Date:** 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15161-SD-2
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/10/2015 1:20:00 PM
<b>Lab ID:</b> 1506C34-011	<b>Matrix:</b> Sediment

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL-SEMIVOLATILE ORGANICS SW8270D</b>		<b>(SW3550C)</b>						
Bis(2-ethylhexyl)phthalate	BRL	490		ug/Kg-dry	208413	1	06/12/2015 21:27	YH
Butyl benzyl phthalate	BRL	490		ug/Kg-dry	208413	1	06/12/2015 21:27	YH
Caprolactam	BRL	490		ug/Kg-dry	208413	1	06/12/2015 21:27	YH
Carbazole	BRL	490		ug/Kg-dry	208413	1	06/12/2015 21:27	YH
Chrysene	BRL	490		ug/Kg-dry	208413	1	06/12/2015 21:27	YH
Di-n-butyl phthalate	BRL	490		ug/Kg-dry	208413	1	06/12/2015 21:27	YH
Di-n-octyl phthalate	BRL	490		ug/Kg-dry	208413	1	06/12/2015 21:27	YH
Dibenz(a,h)anthracene	BRL	490		ug/Kg-dry	208413	1	06/12/2015 21:27	YH
Dibenzofuran	BRL	490		ug/Kg-dry	208413	1	06/12/2015 21:27	YH
Diethyl phthalate	BRL	490		ug/Kg-dry	208413	1	06/12/2015 21:27	YH
Dimethyl phthalate	BRL	490		ug/Kg-dry	208413	1	06/12/2015 21:27	YH
Fluoranthene	BRL	490		ug/Kg-dry	208413	1	06/12/2015 21:27	YH
Fluorene	BRL	490		ug/Kg-dry	208413	1	06/12/2015 21:27	YH
Hexachlorobenzene	BRL	490		ug/Kg-dry	208413	1	06/12/2015 21:27	YH
Hexachlorobutadiene	BRL	490		ug/Kg-dry	208413	1	06/12/2015 21:27	YH
Hexachlorocyclopentadiene	BRL	980		ug/Kg-dry	208413	1	06/12/2015 21:27	YH
Hexachloroethane	BRL	490		ug/Kg-dry	208413	1	06/12/2015 21:27	YH
Indeno(1,2,3-cd)pyrene	BRL	490		ug/Kg-dry	208413	1	06/12/2015 21:27	YH
Isophorone	BRL	490		ug/Kg-dry	208413	1	06/12/2015 21:27	YH
N-Nitrosodi-n-propylamine	BRL	490		ug/Kg-dry	208413	1	06/12/2015 21:27	YH
N-Nitrosodiphenylamine	BRL	490		ug/Kg-dry	208413	1	06/12/2015 21:27	YH
Naphthalene	BRL	490		ug/Kg-dry	208413	1	06/12/2015 21:27	YH
Nitrobenzene	BRL	490		ug/Kg-dry	208413	1	06/12/2015 21:27	YH
Pentachlorophenol	BRL	2500		ug/Kg-dry	208413	1	06/12/2015 21:27	YH
Phenanthrene	BRL	490		ug/Kg-dry	208413	1	06/12/2015 21:27	YH
Phenol	BRL	490		ug/Kg-dry	208413	1	06/12/2015 21:27	YH
Pyrene	BRL	490		ug/Kg-dry	208413	1	06/12/2015 21:27	YH
Surr: 2,4,6-Tribromophenol	96.1	41-128		%REC	208413	1	06/12/2015 21:27	YH
Surr: 2-Fluorobiphenyl	92.1	47-120		%REC	208413	1	06/12/2015 21:27	YH
Surr: 2-Fluorophenol	91.7	38.3-120		%REC	208413	1	06/12/2015 21:27	YH
Surr: 4-Terphenyl-d14	87	51.4-125		%REC	208413	1	06/12/2015 21:27	YH
Surr: Nitrobenzene-d5	107	40.1-120		%REC	208413	1	06/12/2015 21:27	YH
Surr: Phenol-d5	106	40.3-120		%REC	208413	1	06/12/2015 21:27	YH
<b>TCL VOLATILE ORGANICS SW8260B</b>		<b>(SW5035)</b>						
1,1,1-Trichloroethane	BRL	4.7		ug/Kg-dry	208832	1	06/15/2015 12:24	CG
1,1,2,2-Tetrachloroethane	BRL	4.7		ug/Kg-dry	208832	1	06/15/2015 12:24	CG
1,1,2-Trichloroethane	BRL	4.7		ug/Kg-dry	208832	1	06/15/2015 12:24	CG
1,1-Dichloroethane	BRL	4.7		ug/Kg-dry	208832	1	06/15/2015 12:24	CG
1,1-Dichloroethene	BRL	4.7		ug/Kg-dry	208832	1	06/15/2015 12:24	CG
1,2,4-Trichlorobenzene	BRL	4.7		ug/Kg-dry	208832	1	06/15/2015 12:24	CG

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Analytical Environmental Services, Inc

Date: 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15161-SD-2
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/10/2015 1:20:00 PM
<b>Lab ID:</b> 1506C34-011	<b>Matrix:</b> Sediment

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,2-Dibromo-3-chloropropane	BRL	4.7		ug/Kg-dry	208832	1	06/15/2015 12:24	CG
1,2-Dibromoethane	BRL	4.7		ug/Kg-dry	208832	1	06/15/2015 12:24	CG
1,2-Dichlorobenzene	BRL	4.7		ug/Kg-dry	208832	1	06/15/2015 12:24	CG
1,2-Dichloroethane	BRL	4.7		ug/Kg-dry	208832	1	06/15/2015 12:24	CG
1,2-Dichloropropane	BRL	4.7		ug/Kg-dry	208832	1	06/15/2015 12:24	CG
1,3-Dichlorobenzene	BRL	4.7		ug/Kg-dry	208832	1	06/15/2015 12:24	CG
1,4-Dichlorobenzene	BRL	4.7		ug/Kg-dry	208832	1	06/15/2015 12:24	CG
2-Butanone	BRL	47		ug/Kg-dry	208832	1	06/15/2015 12:24	CG
2-Hexanone	BRL	9.3		ug/Kg-dry	208832	1	06/15/2015 12:24	CG
4-Methyl-2-pentanone	BRL	9.3		ug/Kg-dry	208832	1	06/15/2015 12:24	CG
Acetone	240	93		ug/Kg-dry	208832	1	06/15/2015 12:24	CG
Benzene	BRL	4.7		ug/Kg-dry	208832	1	06/15/2015 12:24	CG
Bromodichloromethane	BRL	4.7		ug/Kg-dry	208832	1	06/15/2015 12:24	CG
Bromoform	BRL	4.7		ug/Kg-dry	208832	1	06/15/2015 12:24	CG
Bromomethane	BRL	4.7		ug/Kg-dry	208832	1	06/15/2015 12:24	CG
Carbon disulfide	BRL	9.3		ug/Kg-dry	208832	1	06/15/2015 12:24	CG
Carbon tetrachloride	BRL	4.7		ug/Kg-dry	208832	1	06/15/2015 12:24	CG
Chlorobenzene	BRL	4.7		ug/Kg-dry	208832	1	06/15/2015 12:24	CG
Chloroethane	BRL	9.3		ug/Kg-dry	208832	1	06/15/2015 12:24	CG
Chloroform	BRL	4.7		ug/Kg-dry	208832	1	06/15/2015 12:24	CG
Chloromethane	BRL	9.3		ug/Kg-dry	208832	1	06/15/2015 12:24	CG
cis-1,2-Dichloroethene	BRL	4.7		ug/Kg-dry	208832	1	06/15/2015 12:24	CG
cis-1,3-Dichloropropene	BRL	4.7		ug/Kg-dry	208832	1	06/15/2015 12:24	CG
Cyclohexane	BRL	4.7		ug/Kg-dry	208832	1	06/15/2015 12:24	CG
Dibromochloromethane	BRL	4.7		ug/Kg-dry	208832	1	06/15/2015 12:24	CG
Dichlorodifluoromethane	BRL	9.3		ug/Kg-dry	208832	1	06/15/2015 12:24	CG
Ethylbenzene	BRL	4.7		ug/Kg-dry	208832	1	06/15/2015 12:24	CG
Freon-113	BRL	9.3		ug/Kg-dry	208832	1	06/15/2015 12:24	CG
Isopropylbenzene	BRL	4.7		ug/Kg-dry	208832	1	06/15/2015 12:24	CG
m,p-Xylene	BRL	4.7		ug/Kg-dry	208832	1	06/15/2015 12:24	CG
Methyl acetate	BRL	4.7		ug/Kg-dry	208832	1	06/15/2015 12:24	CG
Methyl tert-butyl ether	BRL	4.7		ug/Kg-dry	208832	1	06/15/2015 12:24	CG
Methylcyclohexane	BRL	4.7		ug/Kg-dry	208832	1	06/15/2015 12:24	CG
Methylene chloride	BRL	19		ug/Kg-dry	208832	1	06/15/2015 12:24	CG
o-Xylene	BRL	4.7		ug/Kg-dry	208832	1	06/15/2015 12:24	CG
Styrene	BRL	4.7		ug/Kg-dry	208832	1	06/15/2015 12:24	CG
Tetrachloroethene	BRL	4.7		ug/Kg-dry	208832	1	06/15/2015 12:24	CG
Toluene	BRL	4.7		ug/Kg-dry	208832	1	06/15/2015 12:24	CG
trans-1,2-Dichloroethene	BRL	4.7		ug/Kg-dry	208832	1	06/15/2015 12:24	CG
trans-1,3-Dichloropropene	BRL	4.7		ug/Kg-dry	208832	1	06/15/2015 12:24	CG
Trichloroethene	BRL	4.7		ug/Kg-dry	208832	1	06/15/2015 12:24	CG

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit



**Analytical Environmental Services, Inc**

**Date:** 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15161-SD-2
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/10/2015 1:20:00 PM
<b>Lab ID:</b> 1506C34-011	<b>Matrix:</b> Sediment

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>			<b>(SW5035)</b>					
Trichlorofluoromethane	BRL	4.7		ug/Kg-dry	208832	1	06/15/2015 12:24	CG
Vinyl chloride	BRL	9.3		ug/Kg-dry	208832	1	06/15/2015 12:24	CG
Surr: 4-Bromofluorobenzene	79.9	70-128		%REC	208832	1	06/15/2015 12:24	CG
Surr: Dibromofluoromethane	117	78.2-128		%REC	208832	1	06/15/2015 12:24	CG
Surr: Toluene-d8	91.8	76.5-116		%REC	208832	1	06/15/2015 12:24	CG
<b>METALS, TOTAL SW6010C</b>			<b>(SW3050B)</b>					
Arsenic	BRL	7.22		mg/Kg-dry	208707	1	06/13/2015 02:14	TA
Barium	52.7	7.22		mg/Kg-dry	208707	1	06/13/2015 02:14	TA
Cadmium	BRL	3.61		mg/Kg-dry	208707	1	06/13/2015 02:14	TA
Chromium	459	3.61		mg/Kg-dry	208707	1	06/13/2015 02:14	TA
Lead	45.3	7.22		mg/Kg-dry	208707	1	06/13/2015 02:14	TA
Nickel	BRL	7.22		mg/Kg-dry	208707	1	06/13/2015 02:14	TA
Phosphorus	411	36.1		mg/Kg-dry	208707	1	06/15/2015 16:40	IO
Selenium	BRL	7.22		mg/Kg-dry	208707	1	06/13/2015 02:14	TA
Silver	BRL	3.61		mg/Kg-dry	208707	1	06/13/2015 02:14	TA
Zinc	147	7.22		mg/Kg-dry	208707	1	06/13/2015 02:14	TA
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	32.8	0		wt%	R293980	1	06/16/2015 10:00	PF

**Qualifiers:**

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- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15161-SD-3
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/10/2015 1:32:00 PM
<b>Lab ID:</b> 1506C34-012	<b>Matrix:</b> Sediment

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TOTAL MERCURY SW7471B</b>					<b>(SW7471B)</b>			
Mercury	BRL	0.124		mg/Kg-dry	208773	1	06/15/2015 16:15	TA
<b>TCL-SEMIVOLATILE ORGANICS SW8270D</b>					<b>(SW3550C)</b>			
1,1'-Biphenyl	BRL	420		ug/Kg-dry	208413	1	06/12/2015 21:52	YH
2,4,5-Trichlorophenol	BRL	2100		ug/Kg-dry	208413	1	06/12/2015 21:52	YH
2,4,6-Trichlorophenol	BRL	420		ug/Kg-dry	208413	1	06/12/2015 21:52	YH
2,4-Dichlorophenol	BRL	420		ug/Kg-dry	208413	1	06/12/2015 21:52	YH
2,4-Dimethylphenol	BRL	420		ug/Kg-dry	208413	1	06/12/2015 21:52	YH
2,4-Dinitrophenol	BRL	2100		ug/Kg-dry	208413	1	06/12/2015 21:52	YH
2,4-Dinitrotoluene	BRL	420		ug/Kg-dry	208413	1	06/12/2015 21:52	YH
2,6-Dinitrotoluene	BRL	420		ug/Kg-dry	208413	1	06/12/2015 21:52	YH
2-Chloronaphthalene	BRL	420		ug/Kg-dry	208413	1	06/12/2015 21:52	YH
2-Chlorophenol	BRL	420		ug/Kg-dry	208413	1	06/12/2015 21:52	YH
2-Methylnaphthalene	BRL	420		ug/Kg-dry	208413	1	06/12/2015 21:52	YH
2-Methylphenol	BRL	420		ug/Kg-dry	208413	1	06/12/2015 21:52	YH
2-Nitroaniline	BRL	2100		ug/Kg-dry	208413	1	06/12/2015 21:52	YH
2-Nitrophenol	BRL	420		ug/Kg-dry	208413	1	06/12/2015 21:52	YH
3,3'-Dichlorobenzidine	BRL	850		ug/Kg-dry	208413	1	06/12/2015 21:52	YH
3-Nitroaniline	BRL	2100		ug/Kg-dry	208413	1	06/12/2015 21:52	YH
4,6-Dinitro-2-methylphenol	BRL	2100		ug/Kg-dry	208413	1	06/12/2015 21:52	YH
4-Bromophenyl phenyl ether	BRL	420		ug/Kg-dry	208413	1	06/12/2015 21:52	YH
4-Chloro-3-methylphenol	BRL	420		ug/Kg-dry	208413	1	06/12/2015 21:52	YH
4-Chloroaniline	BRL	420		ug/Kg-dry	208413	1	06/12/2015 21:52	YH
4-Chlorophenyl phenyl ether	BRL	420		ug/Kg-dry	208413	1	06/12/2015 21:52	YH
4-Methylphenol	BRL	420		ug/Kg-dry	208413	1	06/12/2015 21:52	YH
4-Nitroaniline	BRL	2100		ug/Kg-dry	208413	1	06/12/2015 21:52	YH
4-Nitrophenol	BRL	2100		ug/Kg-dry	208413	1	06/12/2015 21:52	YH
Acenaphthene	BRL	420		ug/Kg-dry	208413	1	06/12/2015 21:52	YH
Acenaphthylene	BRL	420		ug/Kg-dry	208413	1	06/12/2015 21:52	YH
Acetophenone	BRL	420		ug/Kg-dry	208413	1	06/12/2015 21:52	YH
Anthracene	BRL	420		ug/Kg-dry	208413	1	06/12/2015 21:52	YH
Atrazine	BRL	420		ug/Kg-dry	208413	1	06/12/2015 21:52	YH
Benz(a)anthracene	720	420		ug/Kg-dry	208413	1	06/12/2015 21:52	YH
Benzaldehyde	BRL	420		ug/Kg-dry	208413	1	06/12/2015 21:52	YH
Benzo(a)pyrene	600	420		ug/Kg-dry	208413	1	06/12/2015 21:52	YH
Benzo(b)fluoranthene	870	420		ug/Kg-dry	208413	1	06/12/2015 21:52	YH
Benzo(g,h,i)perylene	460	420		ug/Kg-dry	208413	1	06/12/2015 21:52	YH
Benzo(k)fluoranthene	BRL	420		ug/Kg-dry	208413	1	06/12/2015 21:52	YH
Bis(2-chloroethoxy)methane	BRL	420		ug/Kg-dry	208413	1	06/12/2015 21:52	YH
Bis(2-chloroethyl)ether	BRL	420		ug/Kg-dry	208413	1	06/12/2015 21:52	YH
Bis(2-chloroisopropyl)ether	BRL	420		ug/Kg-dry	208413	1	06/12/2015 21:52	YH

**Qualifiers:**

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**Analytical Environmental Services, Inc**

**Date:** 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15161-SD-3
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/10/2015 1:32:00 PM
<b>Lab ID:</b> 1506C34-012	<b>Matrix:</b> Sediment

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL-SEMIVOLATILE ORGANICS SW8270D</b>		<b>(SW3550C)</b>						
Bis(2-ethylhexyl)phthalate	BRL	420		ug/Kg-dry	208413	1	06/12/2015 21:52	YH
Butyl benzyl phthalate	BRL	420		ug/Kg-dry	208413	1	06/12/2015 21:52	YH
Caprolactam	BRL	420		ug/Kg-dry	208413	1	06/12/2015 21:52	YH
Carbazole	BRL	420		ug/Kg-dry	208413	1	06/12/2015 21:52	YH
Chrysene	660	420		ug/Kg-dry	208413	1	06/12/2015 21:52	YH
Di-n-butyl phthalate	BRL	420		ug/Kg-dry	208413	1	06/12/2015 21:52	YH
Di-n-octyl phthalate	BRL	420		ug/Kg-dry	208413	1	06/12/2015 21:52	YH
Dibenz(a,h)anthracene	BRL	420		ug/Kg-dry	208413	1	06/12/2015 21:52	YH
Dibenzofuran	BRL	420		ug/Kg-dry	208413	1	06/12/2015 21:52	YH
Diethyl phthalate	BRL	420		ug/Kg-dry	208413	1	06/12/2015 21:52	YH
Dimethyl phthalate	BRL	420		ug/Kg-dry	208413	1	06/12/2015 21:52	YH
Fluoranthene	1300	420		ug/Kg-dry	208413	1	06/12/2015 21:52	YH
Fluorene	BRL	420		ug/Kg-dry	208413	1	06/12/2015 21:52	YH
Hexachlorobenzene	BRL	420		ug/Kg-dry	208413	1	06/12/2015 21:52	YH
Hexachlorobutadiene	BRL	420		ug/Kg-dry	208413	1	06/12/2015 21:52	YH
Hexachlorocyclopentadiene	BRL	830		ug/Kg-dry	208413	1	06/12/2015 21:52	YH
Hexachloroethane	BRL	420		ug/Kg-dry	208413	1	06/12/2015 21:52	YH
Indeno(1,2,3-cd)pyrene	BRL	420		ug/Kg-dry	208413	1	06/12/2015 21:52	YH
Isophorone	BRL	420		ug/Kg-dry	208413	1	06/12/2015 21:52	YH
N-Nitrosodi-n-propylamine	BRL	420		ug/Kg-dry	208413	1	06/12/2015 21:52	YH
N-Nitrosodiphenylamine	BRL	420		ug/Kg-dry	208413	1	06/12/2015 21:52	YH
Naphthalene	BRL	420		ug/Kg-dry	208413	1	06/12/2015 21:52	YH
Nitrobenzene	BRL	420		ug/Kg-dry	208413	1	06/12/2015 21:52	YH
Pentachlorophenol	BRL	2100		ug/Kg-dry	208413	1	06/12/2015 21:52	YH
Phenanthrene	BRL	420		ug/Kg-dry	208413	1	06/12/2015 21:52	YH
Phenol	BRL	420		ug/Kg-dry	208413	1	06/12/2015 21:52	YH
Pyrene	1000	420		ug/Kg-dry	208413	1	06/12/2015 21:52	YH
Surr: 2,4,6-Tribromophenol	90.4	41-128		%REC	208413	1	06/12/2015 21:52	YH
Surr: 2-Fluorobiphenyl	82.6	47-120		%REC	208413	1	06/12/2015 21:52	YH
Surr: 2-Fluorophenol	78.9	38.3-120		%REC	208413	1	06/12/2015 21:52	YH
Surr: 4-Terphenyl-d14	85.9	51.4-125		%REC	208413	1	06/12/2015 21:52	YH
Surr: Nitrobenzene-d5	91.6	40.1-120		%REC	208413	1	06/12/2015 21:52	YH
Surr: Phenol-d5	96.6	40.3-120		%REC	208413	1	06/12/2015 21:52	YH
<b>TCL VOLATILE ORGANICS SW8260B</b>		<b>(SW5035)</b>						
1,1,1-Trichloroethane	BRL	1.9		ug/Kg-dry	208832	1	06/15/2015 12:48	CG
1,1,2,2-Tetrachloroethane	BRL	1.9		ug/Kg-dry	208832	1	06/15/2015 12:48	CG
1,1,2-Trichloroethane	BRL	1.9		ug/Kg-dry	208832	1	06/15/2015 12:48	CG
1,1-Dichloroethane	BRL	1.9		ug/Kg-dry	208832	1	06/15/2015 12:48	CG
1,1-Dichloroethene	BRL	1.9		ug/Kg-dry	208832	1	06/15/2015 12:48	CG
1,2,4-Trichlorobenzene	BRL	1.9		ug/Kg-dry	208832	1	06/15/2015 12:48	CG

**Qualifiers:**

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- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15161-SD-3
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/10/2015 1:32:00 PM
<b>Lab ID:</b> 1506C34-012	<b>Matrix:</b> Sediment

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,2-Dibromo-3-chloropropane	BRL	1.9		ug/Kg-dry	208832	1	06/15/2015 12:48	CG
1,2-Dibromoethane	BRL	1.9		ug/Kg-dry	208832	1	06/15/2015 12:48	CG
1,2-Dichlorobenzene	BRL	1.9		ug/Kg-dry	208832	1	06/15/2015 12:48	CG
1,2-Dichloroethane	BRL	1.9		ug/Kg-dry	208832	1	06/15/2015 12:48	CG
1,2-Dichloropropane	BRL	1.9		ug/Kg-dry	208832	1	06/15/2015 12:48	CG
1,3-Dichlorobenzene	BRL	1.9		ug/Kg-dry	208832	1	06/15/2015 12:48	CG
1,4-Dichlorobenzene	BRL	1.9		ug/Kg-dry	208832	1	06/15/2015 12:48	CG
2-Butanone	BRL	19		ug/Kg-dry	208832	1	06/15/2015 12:48	CG
2-Hexanone	BRL	3.9		ug/Kg-dry	208832	1	06/15/2015 12:48	CG
4-Methyl-2-pentanone	BRL	3.9		ug/Kg-dry	208832	1	06/15/2015 12:48	CG
Acetone	BRL	39		ug/Kg-dry	208832	1	06/15/2015 12:48	CG
Benzene	BRL	1.9		ug/Kg-dry	208832	1	06/15/2015 12:48	CG
Bromodichloromethane	BRL	1.9		ug/Kg-dry	208832	1	06/15/2015 12:48	CG
Bromoform	BRL	1.9		ug/Kg-dry	208832	1	06/15/2015 12:48	CG
Bromomethane	BRL	1.9		ug/Kg-dry	208832	1	06/15/2015 12:48	CG
Carbon disulfide	BRL	3.9		ug/Kg-dry	208832	1	06/15/2015 12:48	CG
Carbon tetrachloride	BRL	1.9		ug/Kg-dry	208832	1	06/15/2015 12:48	CG
Chlorobenzene	BRL	1.9		ug/Kg-dry	208832	1	06/15/2015 12:48	CG
Chloroethane	BRL	3.9		ug/Kg-dry	208832	1	06/15/2015 12:48	CG
Chloroform	BRL	1.9		ug/Kg-dry	208832	1	06/15/2015 12:48	CG
Chloromethane	BRL	3.9		ug/Kg-dry	208832	1	06/15/2015 12:48	CG
cis-1,2-Dichloroethene	BRL	1.9		ug/Kg-dry	208832	1	06/15/2015 12:48	CG
cis-1,3-Dichloropropene	BRL	1.9		ug/Kg-dry	208832	1	06/15/2015 12:48	CG
Cyclohexane	BRL	1.9		ug/Kg-dry	208832	1	06/15/2015 12:48	CG
Dibromochloromethane	BRL	1.9		ug/Kg-dry	208832	1	06/15/2015 12:48	CG
Dichlorodifluoromethane	BRL	3.9		ug/Kg-dry	208832	1	06/15/2015 12:48	CG
Ethylbenzene	BRL	1.9		ug/Kg-dry	208832	1	06/15/2015 12:48	CG
Freon-113	BRL	3.9		ug/Kg-dry	208832	1	06/15/2015 12:48	CG
Isopropylbenzene	BRL	1.9		ug/Kg-dry	208832	1	06/15/2015 12:48	CG
m,p-Xylene	BRL	1.9		ug/Kg-dry	208832	1	06/15/2015 12:48	CG
Methyl acetate	BRL	1.9		ug/Kg-dry	208832	1	06/15/2015 12:48	CG
Methyl tert-butyl ether	BRL	1.9		ug/Kg-dry	208832	1	06/15/2015 12:48	CG
Methylcyclohexane	BRL	1.9		ug/Kg-dry	208832	1	06/15/2015 12:48	CG
Methylene chloride	BRL	7.8		ug/Kg-dry	208832	1	06/15/2015 12:48	CG
o-Xylene	BRL	1.9		ug/Kg-dry	208832	1	06/15/2015 12:48	CG
Styrene	BRL	1.9		ug/Kg-dry	208832	1	06/15/2015 12:48	CG
Tetrachloroethene	BRL	1.9		ug/Kg-dry	208832	1	06/15/2015 12:48	CG
Toluene	BRL	1.9		ug/Kg-dry	208832	1	06/15/2015 12:48	CG
trans-1,2-Dichloroethene	BRL	1.9		ug/Kg-dry	208832	1	06/15/2015 12:48	CG
trans-1,3-Dichloropropene	BRL	1.9		ug/Kg-dry	208832	1	06/15/2015 12:48	CG
Trichloroethene	BRL	1.9		ug/Kg-dry	208832	1	06/15/2015 12:48	CG

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15161-SD-3
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/10/2015 1:32:00 PM
<b>Lab ID:</b> 1506C34-012	<b>Matrix:</b> Sediment

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>			<b>(SW5035)</b>					
Trichlorofluoromethane	BRL	1.9		ug/Kg-dry	208832	1	06/15/2015 12:48	CG
Vinyl chloride	BRL	3.9		ug/Kg-dry	208832	1	06/15/2015 12:48	CG
Surr: 4-Bromofluorobenzene	96.5	70-128		%REC	208832	1	06/15/2015 12:48	CG
Surr: Dibromofluoromethane	121	78.2-128		%REC	208832	1	06/15/2015 12:48	CG
Surr: Toluene-d8	96.6	76.5-116		%REC	208832	1	06/15/2015 12:48	CG
<b>METALS, TOTAL SW6010C</b>			<b>(SW3050B)</b>					
Arsenic	BRL	6.02		mg/Kg-dry	208707	1	06/13/2015 02:17	TA
Barium	6.07	6.02		mg/Kg-dry	208707	1	06/13/2015 02:17	TA
Cadmium	BRL	3.01		mg/Kg-dry	208707	1	06/13/2015 02:17	TA
Chromium	4.36	3.01		mg/Kg-dry	208707	1	06/13/2015 02:17	TA
Lead	BRL	6.02		mg/Kg-dry	208707	1	06/13/2015 02:17	TA
Nickel	BRL	6.02		mg/Kg-dry	208707	1	06/13/2015 02:17	TA
Phosphorus	84.3	30.1		mg/Kg-dry	208707	1	06/15/2015 16:48	IO
Selenium	BRL	6.02		mg/Kg-dry	208707	1	06/13/2015 02:17	TA
Silver	BRL	3.01		mg/Kg-dry	208707	1	06/13/2015 02:17	TA
Zinc	14.3	6.02		mg/Kg-dry	208707	1	06/13/2015 02:17	TA
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	20.8	0		wt%	R293980	1	06/16/2015 10:00	PF

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15159-SB-1-2
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/8/2015 5:17:00 PM
<b>Lab ID:</b> 1506C34-013	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TOTAL MERCURY SW7471B</b>								
Mercury	BRL	0.124		mg/Kg-dry	208773	1	06/15/2015 16:18	TA
<b>TCL-SEMIVOLATILE ORGANICS SW8270D</b>								
1,1'-Biphenyl	BRL	440		ug/Kg-dry	208413	1	06/12/2015 16:55	YH
2,4,5-Trichlorophenol	BRL	2200		ug/Kg-dry	208413	1	06/12/2015 16:55	YH
2,4,6-Trichlorophenol	BRL	440		ug/Kg-dry	208413	1	06/12/2015 16:55	YH
2,4-Dichlorophenol	BRL	440		ug/Kg-dry	208413	1	06/12/2015 16:55	YH
2,4-Dimethylphenol	BRL	440		ug/Kg-dry	208413	1	06/12/2015 16:55	YH
2,4-Dinitrophenol	BRL	2200		ug/Kg-dry	208413	1	06/12/2015 16:55	YH
2,4-Dinitrotoluene	BRL	440		ug/Kg-dry	208413	1	06/12/2015 16:55	YH
2,6-Dinitrotoluene	BRL	440		ug/Kg-dry	208413	1	06/12/2015 16:55	YH
2-Chloronaphthalene	BRL	440		ug/Kg-dry	208413	1	06/12/2015 16:55	YH
2-Chlorophenol	BRL	440		ug/Kg-dry	208413	1	06/12/2015 16:55	YH
2-Methylnaphthalene	BRL	440		ug/Kg-dry	208413	1	06/12/2015 16:55	YH
2-Methylphenol	BRL	440		ug/Kg-dry	208413	1	06/12/2015 16:55	YH
2-Nitroaniline	BRL	2200		ug/Kg-dry	208413	1	06/12/2015 16:55	YH
2-Nitrophenol	BRL	440		ug/Kg-dry	208413	1	06/12/2015 16:55	YH
3,3'-Dichlorobenzidine	BRL	890		ug/Kg-dry	208413	1	06/12/2015 16:55	YH
3-Nitroaniline	BRL	2200		ug/Kg-dry	208413	1	06/12/2015 16:55	YH
4,6-Dinitro-2-methylphenol	BRL	2200		ug/Kg-dry	208413	1	06/12/2015 16:55	YH
4-Bromophenyl phenyl ether	BRL	440		ug/Kg-dry	208413	1	06/12/2015 16:55	YH
4-Chloro-3-methylphenol	BRL	440		ug/Kg-dry	208413	1	06/12/2015 16:55	YH
4-Chloroaniline	BRL	440		ug/Kg-dry	208413	1	06/12/2015 16:55	YH
4-Chlorophenyl phenyl ether	BRL	440		ug/Kg-dry	208413	1	06/12/2015 16:55	YH
4-Methylphenol	BRL	440		ug/Kg-dry	208413	1	06/12/2015 16:55	YH
4-Nitroaniline	BRL	2200		ug/Kg-dry	208413	1	06/12/2015 16:55	YH
4-Nitrophenol	BRL	2200		ug/Kg-dry	208413	1	06/12/2015 16:55	YH
Acenaphthene	BRL	440		ug/Kg-dry	208413	1	06/12/2015 16:55	YH
Acenaphthylene	BRL	440		ug/Kg-dry	208413	1	06/12/2015 16:55	YH
Acetophenone	BRL	440		ug/Kg-dry	208413	1	06/12/2015 16:55	YH
Anthracene	BRL	440		ug/Kg-dry	208413	1	06/12/2015 16:55	YH
Atrazine	BRL	440		ug/Kg-dry	208413	1	06/12/2015 16:55	YH
Benz(a)anthracene	BRL	440		ug/Kg-dry	208413	1	06/12/2015 16:55	YH
Benzaldehyde	BRL	440		ug/Kg-dry	208413	1	06/12/2015 16:55	YH
Benzo(a)pyrene	BRL	440		ug/Kg-dry	208413	1	06/12/2015 16:55	YH
Benzo(b)fluoranthene	BRL	440		ug/Kg-dry	208413	1	06/12/2015 16:55	YH
Benzo(g,h,i)perylene	BRL	440		ug/Kg-dry	208413	1	06/12/2015 16:55	YH
Benzo(k)fluoranthene	BRL	440		ug/Kg-dry	208413	1	06/12/2015 16:55	YH
Bis(2-chloroethoxy)methane	BRL	440		ug/Kg-dry	208413	1	06/12/2015 16:55	YH
Bis(2-chloroethyl)ether	BRL	440		ug/Kg-dry	208413	1	06/12/2015 16:55	YH
Bis(2-chloroisopropyl)ether	BRL	440		ug/Kg-dry	208413	1	06/12/2015 16:55	YH

**Qualifiers:**

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- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15159-SB-1-2
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/8/2015 5:17:00 PM
<b>Lab ID:</b> 1506C34-013	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL-SEMIVOLATILE ORGANICS SW8270D</b>		<b>(SW3550C)</b>						
Bis(2-ethylhexyl)phthalate	BRL	440		ug/Kg-dry	208413	1	06/12/2015 16:55	YH
Butyl benzyl phthalate	BRL	440		ug/Kg-dry	208413	1	06/12/2015 16:55	YH
Caprolactam	BRL	440		ug/Kg-dry	208413	1	06/12/2015 16:55	YH
Carbazole	BRL	440		ug/Kg-dry	208413	1	06/12/2015 16:55	YH
Chrysene	BRL	440		ug/Kg-dry	208413	1	06/12/2015 16:55	YH
Di-n-butyl phthalate	BRL	440		ug/Kg-dry	208413	1	06/12/2015 16:55	YH
Di-n-octyl phthalate	BRL	440		ug/Kg-dry	208413	1	06/12/2015 16:55	YH
Dibenz(a,h)anthracene	BRL	440		ug/Kg-dry	208413	1	06/12/2015 16:55	YH
Dibenzofuran	BRL	440		ug/Kg-dry	208413	1	06/12/2015 16:55	YH
Diethyl phthalate	BRL	440		ug/Kg-dry	208413	1	06/12/2015 16:55	YH
Dimethyl phthalate	BRL	440		ug/Kg-dry	208413	1	06/12/2015 16:55	YH
Fluoranthene	BRL	440		ug/Kg-dry	208413	1	06/12/2015 16:55	YH
Fluorene	BRL	440		ug/Kg-dry	208413	1	06/12/2015 16:55	YH
Hexachlorobenzene	BRL	440		ug/Kg-dry	208413	1	06/12/2015 16:55	YH
Hexachlorobutadiene	BRL	440		ug/Kg-dry	208413	1	06/12/2015 16:55	YH
Hexachlorocyclopentadiene	BRL	870		ug/Kg-dry	208413	1	06/12/2015 16:55	YH
Hexachloroethane	BRL	440		ug/Kg-dry	208413	1	06/12/2015 16:55	YH
Indeno(1,2,3-cd)pyrene	BRL	440		ug/Kg-dry	208413	1	06/12/2015 16:55	YH
Isophorone	BRL	440		ug/Kg-dry	208413	1	06/12/2015 16:55	YH
N-Nitrosodi-n-propylamine	BRL	440		ug/Kg-dry	208413	1	06/12/2015 16:55	YH
N-Nitrosodiphenylamine	BRL	440		ug/Kg-dry	208413	1	06/12/2015 16:55	YH
Naphthalene	BRL	440		ug/Kg-dry	208413	1	06/12/2015 16:55	YH
Nitrobenzene	BRL	440		ug/Kg-dry	208413	1	06/12/2015 16:55	YH
Pentachlorophenol	BRL	2200		ug/Kg-dry	208413	1	06/12/2015 16:55	YH
Phenanthrene	BRL	440		ug/Kg-dry	208413	1	06/12/2015 16:55	YH
Phenol	BRL	440		ug/Kg-dry	208413	1	06/12/2015 16:55	YH
Pyrene	BRL	440		ug/Kg-dry	208413	1	06/12/2015 16:55	YH
Surr: 2,4,6-Tribromophenol	94.4	41-128		%REC	208413	1	06/12/2015 16:55	YH
Surr: 2-Fluorobiphenyl	89.1	47-120		%REC	208413	1	06/12/2015 16:55	YH
Surr: 2-Fluorophenol	82.7	38.3-120		%REC	208413	1	06/12/2015 16:55	YH
Surr: 4-Terphenyl-d14	98.2	51.4-125		%REC	208413	1	06/12/2015 16:55	YH
Surr: Nitrobenzene-d5	86.6	40.1-120		%REC	208413	1	06/12/2015 16:55	YH
Surr: Phenol-d5	90.5	40.3-120		%REC	208413	1	06/12/2015 16:55	YH
<b>TCL VOLATILE ORGANICS SW8260B</b>		<b>(SW5035)</b>						
1,1,1-Trichloroethane	BRL	2.9		ug/Kg-dry	208832	1	06/15/2015 13:12	CG
1,1,2,2-Tetrachloroethane	BRL	2.9		ug/Kg-dry	208832	1	06/15/2015 13:12	CG
1,1,2-Trichloroethane	BRL	2.9		ug/Kg-dry	208832	1	06/15/2015 13:12	CG
1,1-Dichloroethane	BRL	2.9		ug/Kg-dry	208832	1	06/15/2015 13:12	CG
1,1-Dichloroethene	BRL	2.9		ug/Kg-dry	208832	1	06/15/2015 13:12	CG
1,2,4-Trichlorobenzene	BRL	2.9		ug/Kg-dry	208832	1	06/15/2015 13:12	CG

**Qualifiers:**

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- N Analyte not NELAC certified
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- E Estimated (value above quantitation range)
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- Narr See case narrative
- NC Not confirmed
- < Less than Result value
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Analytical Environmental Services, Inc

Date: 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15159-SB-1-2
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/8/2015 5:17:00 PM
<b>Lab ID:</b> 1506C34-013	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,2-Dibromo-3-chloropropane	BRL	2.9		ug/Kg-dry	208832	1	06/15/2015 13:12	CG
1,2-Dibromoethane	BRL	2.9		ug/Kg-dry	208832	1	06/15/2015 13:12	CG
1,2-Dichlorobenzene	BRL	2.9		ug/Kg-dry	208832	1	06/15/2015 13:12	CG
1,2-Dichloroethane	BRL	2.9		ug/Kg-dry	208832	1	06/15/2015 13:12	CG
1,2-Dichloropropane	BRL	2.9		ug/Kg-dry	208832	1	06/15/2015 13:12	CG
1,3-Dichlorobenzene	BRL	2.9		ug/Kg-dry	208832	1	06/15/2015 13:12	CG
1,4-Dichlorobenzene	BRL	2.9		ug/Kg-dry	208832	1	06/15/2015 13:12	CG
2-Butanone	BRL	29		ug/Kg-dry	208832	1	06/15/2015 13:12	CG
2-Hexanone	BRL	5.8		ug/Kg-dry	208832	1	06/15/2015 13:12	CG
4-Methyl-2-pentanone	BRL	5.8		ug/Kg-dry	208832	1	06/15/2015 13:12	CG
Acetone	BRL	58		ug/Kg-dry	208832	1	06/15/2015 13:12	CG
Benzene	BRL	2.9		ug/Kg-dry	208832	1	06/15/2015 13:12	CG
Bromodichloromethane	BRL	2.9		ug/Kg-dry	208832	1	06/15/2015 13:12	CG
Bromoform	BRL	2.9		ug/Kg-dry	208832	1	06/15/2015 13:12	CG
Bromomethane	BRL	2.9		ug/Kg-dry	208832	1	06/15/2015 13:12	CG
Carbon disulfide	BRL	5.8		ug/Kg-dry	208832	1	06/15/2015 13:12	CG
Carbon tetrachloride	BRL	2.9		ug/Kg-dry	208832	1	06/15/2015 13:12	CG
Chlorobenzene	BRL	2.9		ug/Kg-dry	208832	1	06/15/2015 13:12	CG
Chloroethane	BRL	5.8		ug/Kg-dry	208832	1	06/15/2015 13:12	CG
Chloroform	BRL	2.9		ug/Kg-dry	208832	1	06/15/2015 13:12	CG
Chloromethane	BRL	5.8		ug/Kg-dry	208832	1	06/15/2015 13:12	CG
cis-1,2-Dichloroethene	BRL	2.9		ug/Kg-dry	208832	1	06/15/2015 13:12	CG
cis-1,3-Dichloropropene	BRL	2.9		ug/Kg-dry	208832	1	06/15/2015 13:12	CG
Cyclohexane	BRL	2.9		ug/Kg-dry	208832	1	06/15/2015 13:12	CG
Dibromochloromethane	BRL	2.9		ug/Kg-dry	208832	1	06/15/2015 13:12	CG
Dichlorodifluoromethane	BRL	5.8		ug/Kg-dry	208832	1	06/15/2015 13:12	CG
Ethylbenzene	BRL	2.9		ug/Kg-dry	208832	1	06/15/2015 13:12	CG
Freon-113	BRL	5.8		ug/Kg-dry	208832	1	06/15/2015 13:12	CG
Isopropylbenzene	BRL	2.9		ug/Kg-dry	208832	1	06/15/2015 13:12	CG
m,p-Xylene	BRL	2.9		ug/Kg-dry	208832	1	06/15/2015 13:12	CG
Methyl acetate	BRL	2.9		ug/Kg-dry	208832	1	06/15/2015 13:12	CG
Methyl tert-butyl ether	BRL	2.9		ug/Kg-dry	208832	1	06/15/2015 13:12	CG
Methylcyclohexane	BRL	2.9		ug/Kg-dry	208832	1	06/15/2015 13:12	CG
Methylene chloride	BRL	12		ug/Kg-dry	208832	1	06/15/2015 13:12	CG
o-Xylene	BRL	2.9		ug/Kg-dry	208832	1	06/15/2015 13:12	CG
Styrene	BRL	2.9		ug/Kg-dry	208832	1	06/15/2015 13:12	CG
Tetrachloroethene	BRL	2.9		ug/Kg-dry	208832	1	06/15/2015 13:12	CG
Toluene	BRL	2.9		ug/Kg-dry	208832	1	06/15/2015 13:12	CG
trans-1,2-Dichloroethene	BRL	2.9		ug/Kg-dry	208832	1	06/15/2015 13:12	CG
trans-1,3-Dichloropropene	BRL	2.9		ug/Kg-dry	208832	1	06/15/2015 13:12	CG
Trichloroethene	BRL	2.9		ug/Kg-dry	208832	1	06/15/2015 13:12	CG

**Qualifiers:** \* Value exceeds maximum contaminant level  
 BRL Below reporting limit  
 H Holding times for preparation or analysis exceeded  
 N Analyte not NELAC certified  
 B Analyte detected in the associated method blank  
 > Greater than Result value

E Estimated (value above quantitation range)  
 S Spike Recovery outside limits due to matrix  
 Narr See case narrative  
 NC Not confirmed  
 < Less than Result value  
 J Estimated value detected below Reporting Limit



**Analytical Environmental Services, Inc**

**Date:** 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15159-SB-1-2
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/8/2015 5:17:00 PM
<b>Lab ID:</b> 1506C34-013	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>		<b>(SW5035)</b>						
Trichlorofluoromethane	BRL	2.9		ug/Kg-dry	208832	1	06/15/2015 13:12	CG
Vinyl chloride	BRL	5.8		ug/Kg-dry	208832	1	06/15/2015 13:12	CG
Surr: 4-Bromofluorobenzene	87.9	70-128		%REC	208832	1	06/15/2015 13:12	CG
Surr: Dibromofluoromethane	106	78.2-128		%REC	208832	1	06/15/2015 13:12	CG
Surr: Toluene-d8	99.9	76.5-116		%REC	208832	1	06/15/2015 13:12	CG
<b>METALS, TOTAL SW6010C</b>		<b>(SW3050B)</b>						
Arsenic	BRL	6.48		mg/Kg-dry	208707	1	06/13/2015 02:20	TA
Barium	67.6	6.48		mg/Kg-dry	208707	1	06/13/2015 02:20	TA
Cadmium	BRL	3.24		mg/Kg-dry	208707	1	06/13/2015 02:20	TA
Chromium	8.65	3.24		mg/Kg-dry	208707	1	06/13/2015 02:20	TA
Lead	10.4	6.48		mg/Kg-dry	208707	1	06/13/2015 02:20	TA
Nickel	BRL	6.48		mg/Kg-dry	208707	1	06/13/2015 02:20	TA
Phosphorus	54.5	32.4		mg/Kg-dry	208707	1	06/15/2015 16:51	IO
Selenium	BRL	6.48		mg/Kg-dry	208707	1	06/13/2015 02:20	TA
Silver	BRL	3.24		mg/Kg-dry	208707	1	06/13/2015 02:20	TA
Zinc	6.49	6.48		mg/Kg-dry	208707	1	06/13/2015 02:20	TA
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	24.3	0		wt%	R293980	1	06/16/2015 10:00	PF

**Qualifiers:**

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- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15160-SB-2-2
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/9/2015 8:39:00 AM
<b>Lab ID:</b> 1506C34-014	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TOTAL MERCURY SW7471B</b>					<b>(SW7471B)</b>			
Mercury	BRL	0.125		mg/Kg-dry	208773	1	06/15/2015 16:20	TA
<b>TCL-SEMIVOLATILE ORGANICS SW8270D</b>					<b>(SW3550C)</b>			
1,1'-Biphenyl	BRL	420		ug/Kg-dry	208413	1	06/12/2015 17:21	YH
2,4,5-Trichlorophenol	BRL	2200		ug/Kg-dry	208413	1	06/12/2015 17:21	YH
2,4,6-Trichlorophenol	BRL	420		ug/Kg-dry	208413	1	06/12/2015 17:21	YH
2,4-Dichlorophenol	BRL	420		ug/Kg-dry	208413	1	06/12/2015 17:21	YH
2,4-Dimethylphenol	BRL	420		ug/Kg-dry	208413	1	06/12/2015 17:21	YH
2,4-Dinitrophenol	BRL	2200		ug/Kg-dry	208413	1	06/12/2015 17:21	YH
2,4-Dinitrotoluene	BRL	420		ug/Kg-dry	208413	1	06/12/2015 17:21	YH
2,6-Dinitrotoluene	BRL	420		ug/Kg-dry	208413	1	06/12/2015 17:21	YH
2-Chloronaphthalene	BRL	420		ug/Kg-dry	208413	1	06/12/2015 17:21	YH
2-Chlorophenol	BRL	420		ug/Kg-dry	208413	1	06/12/2015 17:21	YH
2-Methylnaphthalene	BRL	420		ug/Kg-dry	208413	1	06/12/2015 17:21	YH
2-Methylphenol	BRL	420		ug/Kg-dry	208413	1	06/12/2015 17:21	YH
2-Nitroaniline	BRL	2200		ug/Kg-dry	208413	1	06/12/2015 17:21	YH
2-Nitrophenol	BRL	420		ug/Kg-dry	208413	1	06/12/2015 17:21	YH
3,3'-Dichlorobenzidine	BRL	850		ug/Kg-dry	208413	1	06/12/2015 17:21	YH
3-Nitroaniline	BRL	2200		ug/Kg-dry	208413	1	06/12/2015 17:21	YH
4,6-Dinitro-2-methylphenol	BRL	2200		ug/Kg-dry	208413	1	06/12/2015 17:21	YH
4-Bromophenyl phenyl ether	BRL	420		ug/Kg-dry	208413	1	06/12/2015 17:21	YH
4-Chloro-3-methylphenol	BRL	420		ug/Kg-dry	208413	1	06/12/2015 17:21	YH
4-Chloroaniline	BRL	420		ug/Kg-dry	208413	1	06/12/2015 17:21	YH
4-Chlorophenyl phenyl ether	BRL	420		ug/Kg-dry	208413	1	06/12/2015 17:21	YH
4-Methylphenol	BRL	420		ug/Kg-dry	208413	1	06/12/2015 17:21	YH
4-Nitroaniline	BRL	2200		ug/Kg-dry	208413	1	06/12/2015 17:21	YH
4-Nitrophenol	BRL	2200		ug/Kg-dry	208413	1	06/12/2015 17:21	YH
Acenaphthene	BRL	420		ug/Kg-dry	208413	1	06/12/2015 17:21	YH
Acenaphthylene	BRL	420		ug/Kg-dry	208413	1	06/12/2015 17:21	YH
Acetophenone	BRL	420		ug/Kg-dry	208413	1	06/12/2015 17:21	YH
Anthracene	BRL	420		ug/Kg-dry	208413	1	06/12/2015 17:21	YH
Atrazine	BRL	420		ug/Kg-dry	208413	1	06/12/2015 17:21	YH
Benz(a)anthracene	BRL	420		ug/Kg-dry	208413	1	06/12/2015 17:21	YH
Benzaldehyde	BRL	420		ug/Kg-dry	208413	1	06/12/2015 17:21	YH
Benzo(a)pyrene	BRL	420		ug/Kg-dry	208413	1	06/12/2015 17:21	YH
Benzo(b)fluoranthene	BRL	420		ug/Kg-dry	208413	1	06/12/2015 17:21	YH
Benzo(g,h,i)perylene	BRL	420		ug/Kg-dry	208413	1	06/12/2015 17:21	YH
Benzo(k)fluoranthene	BRL	420		ug/Kg-dry	208413	1	06/12/2015 17:21	YH
Bis(2-chloroethoxy)methane	BRL	420		ug/Kg-dry	208413	1	06/12/2015 17:21	YH
Bis(2-chloroethyl)ether	BRL	420		ug/Kg-dry	208413	1	06/12/2015 17:21	YH
Bis(2-chloroisopropyl)ether	BRL	420		ug/Kg-dry	208413	1	06/12/2015 17:21	YH

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- Narr See case narrative
- NC Not confirmed
- < Less than Result value
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**Analytical Environmental Services, Inc**

**Date:** 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15160-SB-2-2
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/9/2015 8:39:00 AM
<b>Lab ID:</b> 1506C34-014	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL-SEMIVOLATILE ORGANICS SW8270D</b>		<b>(SW3550C)</b>						
Bis(2-ethylhexyl)phthalate	BRL	420		ug/Kg-dry	208413	1	06/12/2015 17:21	YH
Butyl benzyl phthalate	BRL	420		ug/Kg-dry	208413	1	06/12/2015 17:21	YH
Caprolactam	BRL	420		ug/Kg-dry	208413	1	06/12/2015 17:21	YH
Carbazole	BRL	420		ug/Kg-dry	208413	1	06/12/2015 17:21	YH
Chrysene	BRL	420		ug/Kg-dry	208413	1	06/12/2015 17:21	YH
Di-n-butyl phthalate	BRL	420		ug/Kg-dry	208413	1	06/12/2015 17:21	YH
Di-n-octyl phthalate	BRL	420		ug/Kg-dry	208413	1	06/12/2015 17:21	YH
Dibenz(a,h)anthracene	BRL	420		ug/Kg-dry	208413	1	06/12/2015 17:21	YH
Dibenzofuran	BRL	420		ug/Kg-dry	208413	1	06/12/2015 17:21	YH
Diethyl phthalate	BRL	420		ug/Kg-dry	208413	1	06/12/2015 17:21	YH
Dimethyl phthalate	BRL	420		ug/Kg-dry	208413	1	06/12/2015 17:21	YH
Fluoranthene	BRL	420		ug/Kg-dry	208413	1	06/12/2015 17:21	YH
Fluorene	BRL	420		ug/Kg-dry	208413	1	06/12/2015 17:21	YH
Hexachlorobenzene	BRL	420		ug/Kg-dry	208413	1	06/12/2015 17:21	YH
Hexachlorobutadiene	BRL	420		ug/Kg-dry	208413	1	06/12/2015 17:21	YH
Hexachlorocyclopentadiene	BRL	840		ug/Kg-dry	208413	1	06/12/2015 17:21	YH
Hexachloroethane	BRL	420		ug/Kg-dry	208413	1	06/12/2015 17:21	YH
Indeno(1,2,3-cd)pyrene	BRL	420		ug/Kg-dry	208413	1	06/12/2015 17:21	YH
Isophorone	BRL	420		ug/Kg-dry	208413	1	06/12/2015 17:21	YH
N-Nitrosodi-n-propylamine	BRL	420		ug/Kg-dry	208413	1	06/12/2015 17:21	YH
N-Nitrosodiphenylamine	BRL	420		ug/Kg-dry	208413	1	06/12/2015 17:21	YH
Naphthalene	BRL	420		ug/Kg-dry	208413	1	06/12/2015 17:21	YH
Nitrobenzene	BRL	420		ug/Kg-dry	208413	1	06/12/2015 17:21	YH
Pentachlorophenol	BRL	2200		ug/Kg-dry	208413	1	06/12/2015 17:21	YH
Phenanthrene	BRL	420		ug/Kg-dry	208413	1	06/12/2015 17:21	YH
Phenol	BRL	420		ug/Kg-dry	208413	1	06/12/2015 17:21	YH
Pyrene	BRL	420		ug/Kg-dry	208413	1	06/12/2015 17:21	YH
Surr: 2,4,6-Tribromophenol	86.2	41-128		%REC	208413	1	06/12/2015 17:21	YH
Surr: 2-Fluorobiphenyl	81.9	47-120		%REC	208413	1	06/12/2015 17:21	YH
Surr: 2-Fluorophenol	78.8	38.3-120		%REC	208413	1	06/12/2015 17:21	YH
Surr: 4-Terphenyl-d14	91.6	51.4-125		%REC	208413	1	06/12/2015 17:21	YH
Surr: Nitrobenzene-d5	81.1	40.1-120		%REC	208413	1	06/12/2015 17:21	YH
Surr: Phenol-d5	82.8	40.3-120		%REC	208413	1	06/12/2015 17:21	YH
<b>TCL VOLATILE ORGANICS SW8260B</b>		<b>(SW5035)</b>						
1,1,1-Trichloroethane	BRL	2.6		ug/Kg-dry	208832	1	06/15/2015 13:36	CG
1,1,2,2-Tetrachloroethane	BRL	2.6		ug/Kg-dry	208832	1	06/15/2015 13:36	CG
1,1,2-Trichloroethane	BRL	2.6		ug/Kg-dry	208832	1	06/15/2015 13:36	CG
1,1-Dichloroethane	BRL	2.6		ug/Kg-dry	208832	1	06/15/2015 13:36	CG
1,1-Dichloroethene	BRL	2.6		ug/Kg-dry	208832	1	06/15/2015 13:36	CG
1,2,4-Trichlorobenzene	BRL	2.6		ug/Kg-dry	208832	1	06/15/2015 13:36	CG

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Analytical Environmental Services, Inc

Date: 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15160-SB-2-2
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/9/2015 8:39:00 AM
<b>Lab ID:</b> 1506C34-014	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,2-Dibromo-3-chloropropane	BRL	2.6		ug/Kg-dry	208832	1	06/15/2015 13:36	CG
1,2-Dibromoethane	BRL	2.6		ug/Kg-dry	208832	1	06/15/2015 13:36	CG
1,2-Dichlorobenzene	BRL	2.6		ug/Kg-dry	208832	1	06/15/2015 13:36	CG
1,2-Dichloroethane	BRL	2.6		ug/Kg-dry	208832	1	06/15/2015 13:36	CG
1,2-Dichloropropane	BRL	2.6		ug/Kg-dry	208832	1	06/15/2015 13:36	CG
1,3-Dichlorobenzene	BRL	2.6		ug/Kg-dry	208832	1	06/15/2015 13:36	CG
1,4-Dichlorobenzene	BRL	2.6		ug/Kg-dry	208832	1	06/15/2015 13:36	CG
2-Butanone	BRL	26		ug/Kg-dry	208832	1	06/15/2015 13:36	CG
2-Hexanone	BRL	5.2		ug/Kg-dry	208832	1	06/15/2015 13:36	CG
4-Methyl-2-pentanone	BRL	5.2		ug/Kg-dry	208832	1	06/15/2015 13:36	CG
Acetone	BRL	52		ug/Kg-dry	208832	1	06/15/2015 13:36	CG
Benzene	BRL	2.6		ug/Kg-dry	208832	1	06/15/2015 13:36	CG
Bromodichloromethane	BRL	2.6		ug/Kg-dry	208832	1	06/15/2015 13:36	CG
Bromoform	BRL	2.6		ug/Kg-dry	208832	1	06/15/2015 13:36	CG
Bromomethane	BRL	2.6		ug/Kg-dry	208832	1	06/15/2015 13:36	CG
Carbon disulfide	BRL	5.2		ug/Kg-dry	208832	1	06/15/2015 13:36	CG
Carbon tetrachloride	BRL	2.6		ug/Kg-dry	208832	1	06/15/2015 13:36	CG
Chlorobenzene	BRL	2.6		ug/Kg-dry	208832	1	06/15/2015 13:36	CG
Chloroethane	BRL	5.2		ug/Kg-dry	208832	1	06/15/2015 13:36	CG
Chloroform	BRL	2.6		ug/Kg-dry	208832	1	06/15/2015 13:36	CG
Chloromethane	BRL	5.2		ug/Kg-dry	208832	1	06/15/2015 13:36	CG
cis-1,2-Dichloroethene	BRL	2.6		ug/Kg-dry	208832	1	06/15/2015 13:36	CG
cis-1,3-Dichloropropene	BRL	2.6		ug/Kg-dry	208832	1	06/15/2015 13:36	CG
Cyclohexane	BRL	2.6		ug/Kg-dry	208832	1	06/15/2015 13:36	CG
Dibromochloromethane	BRL	2.6		ug/Kg-dry	208832	1	06/15/2015 13:36	CG
Dichlorodifluoromethane	BRL	5.2		ug/Kg-dry	208832	1	06/15/2015 13:36	CG
Ethylbenzene	BRL	2.6		ug/Kg-dry	208832	1	06/15/2015 13:36	CG
Freon-113	BRL	5.2		ug/Kg-dry	208832	1	06/15/2015 13:36	CG
Isopropylbenzene	BRL	2.6		ug/Kg-dry	208832	1	06/15/2015 13:36	CG
m,p-Xylene	BRL	2.6		ug/Kg-dry	208832	1	06/15/2015 13:36	CG
Methyl acetate	BRL	2.6		ug/Kg-dry	208832	1	06/15/2015 13:36	CG
Methyl tert-butyl ether	BRL	2.6		ug/Kg-dry	208832	1	06/15/2015 13:36	CG
Methylcyclohexane	BRL	2.6		ug/Kg-dry	208832	1	06/15/2015 13:36	CG
Methylene chloride	BRL	10		ug/Kg-dry	208832	1	06/15/2015 13:36	CG
o-Xylene	BRL	2.6		ug/Kg-dry	208832	1	06/15/2015 13:36	CG
Styrene	BRL	2.6		ug/Kg-dry	208832	1	06/15/2015 13:36	CG
Tetrachloroethene	BRL	2.6		ug/Kg-dry	208832	1	06/15/2015 13:36	CG
Toluene	BRL	2.6		ug/Kg-dry	208832	1	06/15/2015 13:36	CG
trans-1,2-Dichloroethene	BRL	2.6		ug/Kg-dry	208832	1	06/15/2015 13:36	CG
trans-1,3-Dichloropropene	BRL	2.6		ug/Kg-dry	208832	1	06/15/2015 13:36	CG
Trichloroethene	BRL	2.6		ug/Kg-dry	208832	1	06/15/2015 13:36	CG

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**Analytical Environmental Services, Inc**

**Date:** 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15160-SB-2-2
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/9/2015 8:39:00 AM
<b>Lab ID:</b> 1506C34-014	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>			<b>(SW5035)</b>					
Trichlorofluoromethane	BRL	2.6		ug/Kg-dry	208832	1	06/15/2015 13:36	CG
Vinyl chloride	BRL	5.2		ug/Kg-dry	208832	1	06/15/2015 13:36	CG
Surr: 4-Bromofluorobenzene	92.8	70-128		%REC	208832	1	06/15/2015 13:36	CG
Surr: Dibromofluoromethane	108	78.2-128		%REC	208832	1	06/15/2015 13:36	CG
Surr: Toluene-d8	99.4	76.5-116		%REC	208832	1	06/15/2015 13:36	CG
<b>METALS, TOTAL SW6010C</b>			<b>(SW3050B)</b>					
Arsenic	BRL	5.97		mg/Kg-dry	208707	1	06/13/2015 02:23	TA
Barium	80.0	5.97		mg/Kg-dry	208707	1	06/13/2015 02:23	TA
Cadmium	BRL	2.99		mg/Kg-dry	208707	1	06/13/2015 02:23	TA
Chromium	6.57	2.99		mg/Kg-dry	208707	1	06/13/2015 02:23	TA
Lead	8.97	5.97		mg/Kg-dry	208707	1	06/13/2015 02:23	TA
Nickel	BRL	5.97		mg/Kg-dry	208707	1	06/13/2015 02:23	TA
Phosphorus	46.3	29.9		mg/Kg-dry	208707	1	06/15/2015 16:54	IO
Selenium	BRL	5.97		mg/Kg-dry	208707	1	06/13/2015 02:23	TA
Silver	BRL	2.99		mg/Kg-dry	208707	1	06/13/2015 02:23	TA
Zinc	8.24	5.97		mg/Kg-dry	208707	1	06/13/2015 02:23	TA
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	21.0	0		wt%	R293980	1	06/16/2015 10:00	PF

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**Analytical Environmental Services, Inc**

**Date:** 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15160-SB-3-2
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/9/2015 8:47:00 AM
<b>Lab ID:</b> 1506C34-015	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TOTAL MERCURY SW7471B</b>		<b>(SW7471B)</b>						
Mercury	BRL	0.119		mg/Kg-dry	208773	1	06/15/2015 16:22	TA
<b>TCL-SEMIVOLATILE ORGANICS SW8270D</b>		<b>(SW3550C)</b>						
1,1'-Biphenyl	BRL	400		ug/Kg-dry	208413	1	06/12/2015 17:48	YH
2,4,5-Trichlorophenol	BRL	2100		ug/Kg-dry	208413	1	06/12/2015 17:48	YH
2,4,6-Trichlorophenol	BRL	400		ug/Kg-dry	208413	1	06/12/2015 17:48	YH
2,4-Dichlorophenol	BRL	400		ug/Kg-dry	208413	1	06/12/2015 17:48	YH
2,4-Dimethylphenol	BRL	400		ug/Kg-dry	208413	1	06/12/2015 17:48	YH
2,4-Dinitrophenol	BRL	2100		ug/Kg-dry	208413	1	06/12/2015 17:48	YH
2,4-Dinitrotoluene	BRL	400		ug/Kg-dry	208413	1	06/12/2015 17:48	YH
2,6-Dinitrotoluene	BRL	400		ug/Kg-dry	208413	1	06/12/2015 17:48	YH
2-Chloronaphthalene	BRL	400		ug/Kg-dry	208413	1	06/12/2015 17:48	YH
2-Chlorophenol	BRL	400		ug/Kg-dry	208413	1	06/12/2015 17:48	YH
2-Methylnaphthalene	BRL	400		ug/Kg-dry	208413	1	06/12/2015 17:48	YH
2-Methylphenol	BRL	400		ug/Kg-dry	208413	1	06/12/2015 17:48	YH
2-Nitroaniline	BRL	2100		ug/Kg-dry	208413	1	06/12/2015 17:48	YH
2-Nitrophenol	BRL	400		ug/Kg-dry	208413	1	06/12/2015 17:48	YH
3,3'-Dichlorobenzidine	BRL	810		ug/Kg-dry	208413	1	06/12/2015 17:48	YH
3-Nitroaniline	BRL	2100		ug/Kg-dry	208413	1	06/12/2015 17:48	YH
4,6-Dinitro-2-methylphenol	BRL	2100		ug/Kg-dry	208413	1	06/12/2015 17:48	YH
4-Bromophenyl phenyl ether	BRL	400		ug/Kg-dry	208413	1	06/12/2015 17:48	YH
4-Chloro-3-methylphenol	BRL	400		ug/Kg-dry	208413	1	06/12/2015 17:48	YH
4-Chloroaniline	BRL	400		ug/Kg-dry	208413	1	06/12/2015 17:48	YH
4-Chlorophenyl phenyl ether	BRL	400		ug/Kg-dry	208413	1	06/12/2015 17:48	YH
4-Methylphenol	BRL	400		ug/Kg-dry	208413	1	06/12/2015 17:48	YH
4-Nitroaniline	BRL	2100		ug/Kg-dry	208413	1	06/12/2015 17:48	YH
4-Nitrophenol	BRL	2100		ug/Kg-dry	208413	1	06/12/2015 17:48	YH
Acenaphthene	BRL	400		ug/Kg-dry	208413	1	06/12/2015 17:48	YH
Acenaphthylene	BRL	400		ug/Kg-dry	208413	1	06/12/2015 17:48	YH
Acetophenone	BRL	400		ug/Kg-dry	208413	1	06/12/2015 17:48	YH
Anthracene	BRL	400		ug/Kg-dry	208413	1	06/12/2015 17:48	YH
Atrazine	BRL	400		ug/Kg-dry	208413	1	06/12/2015 17:48	YH
Benz(a)anthracene	BRL	400		ug/Kg-dry	208413	1	06/12/2015 17:48	YH
Benzaldehyde	BRL	400		ug/Kg-dry	208413	1	06/12/2015 17:48	YH
Benzo(a)pyrene	BRL	400		ug/Kg-dry	208413	1	06/12/2015 17:48	YH
Benzo(b)fluoranthene	BRL	400		ug/Kg-dry	208413	1	06/12/2015 17:48	YH
Benzo(g,h,i)perylene	BRL	400		ug/Kg-dry	208413	1	06/12/2015 17:48	YH
Benzo(k)fluoranthene	BRL	400		ug/Kg-dry	208413	1	06/12/2015 17:48	YH
Bis(2-chloroethoxy)methane	BRL	400		ug/Kg-dry	208413	1	06/12/2015 17:48	YH
Bis(2-chloroethyl)ether	BRL	400		ug/Kg-dry	208413	1	06/12/2015 17:48	YH
Bis(2-chloroisopropyl)ether	BRL	400		ug/Kg-dry	208413	1	06/12/2015 17:48	YH

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<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/9/2015 8:47:00 AM
<b>Lab ID:</b> 1506C34-015	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL-SEMIVOLATILE ORGANICS SW8270D</b>		<b>(SW3550C)</b>						
Bis(2-ethylhexyl)phthalate	BRL	400		ug/Kg-dry	208413	1	06/12/2015 17:48	YH
Butyl benzyl phthalate	BRL	400		ug/Kg-dry	208413	1	06/12/2015 17:48	YH
Caprolactam	BRL	400		ug/Kg-dry	208413	1	06/12/2015 17:48	YH
Carbazole	BRL	400		ug/Kg-dry	208413	1	06/12/2015 17:48	YH
Chrysene	BRL	400		ug/Kg-dry	208413	1	06/12/2015 17:48	YH
Di-n-butyl phthalate	BRL	400		ug/Kg-dry	208413	1	06/12/2015 17:48	YH
Di-n-octyl phthalate	BRL	400		ug/Kg-dry	208413	1	06/12/2015 17:48	YH
Dibenz(a,h)anthracene	BRL	400		ug/Kg-dry	208413	1	06/12/2015 17:48	YH
Dibenzofuran	BRL	400		ug/Kg-dry	208413	1	06/12/2015 17:48	YH
Diethyl phthalate	BRL	400		ug/Kg-dry	208413	1	06/12/2015 17:48	YH
Dimethyl phthalate	BRL	400		ug/Kg-dry	208413	1	06/12/2015 17:48	YH
Fluoranthene	BRL	400		ug/Kg-dry	208413	1	06/12/2015 17:48	YH
Fluorene	BRL	400		ug/Kg-dry	208413	1	06/12/2015 17:48	YH
Hexachlorobenzene	BRL	400		ug/Kg-dry	208413	1	06/12/2015 17:48	YH
Hexachlorobutadiene	BRL	400		ug/Kg-dry	208413	1	06/12/2015 17:48	YH
Hexachlorocyclopentadiene	BRL	800		ug/Kg-dry	208413	1	06/12/2015 17:48	YH
Hexachloroethane	BRL	400		ug/Kg-dry	208413	1	06/12/2015 17:48	YH
Indeno(1,2,3-cd)pyrene	BRL	400		ug/Kg-dry	208413	1	06/12/2015 17:48	YH
Isophorone	BRL	400		ug/Kg-dry	208413	1	06/12/2015 17:48	YH
N-Nitrosodi-n-propylamine	BRL	400		ug/Kg-dry	208413	1	06/12/2015 17:48	YH
N-Nitrosodiphenylamine	BRL	400		ug/Kg-dry	208413	1	06/12/2015 17:48	YH
Naphthalene	BRL	400		ug/Kg-dry	208413	1	06/12/2015 17:48	YH
Nitrobenzene	BRL	400		ug/Kg-dry	208413	1	06/12/2015 17:48	YH
Pentachlorophenol	BRL	2100		ug/Kg-dry	208413	1	06/12/2015 17:48	YH
Phenanthrene	BRL	400		ug/Kg-dry	208413	1	06/12/2015 17:48	YH
Phenol	BRL	400		ug/Kg-dry	208413	1	06/12/2015 17:48	YH
Pyrene	BRL	400		ug/Kg-dry	208413	1	06/12/2015 17:48	YH
Surr: 2,4,6-Tribromophenol	90.3	41-128		%REC	208413	1	06/12/2015 17:48	YH
Surr: 2-Fluorobiphenyl	85.7	47-120		%REC	208413	1	06/12/2015 17:48	YH
Surr: 2-Fluorophenol	80.6	38.3-120		%REC	208413	1	06/12/2015 17:48	YH
Surr: 4-Terphenyl-d14	91.9	51.4-125		%REC	208413	1	06/12/2015 17:48	YH
Surr: Nitrobenzene-d5	80.8	40.1-120		%REC	208413	1	06/12/2015 17:48	YH
Surr: Phenol-d5	86.2	40.3-120		%REC	208413	1	06/12/2015 17:48	YH
<b>TCL VOLATILE ORGANICS SW8260B</b>		<b>(SW5035)</b>						
1,1,1-Trichloroethane	BRL	2.8		ug/Kg-dry	208832	1	06/15/2015 14:00	CG
1,1,2,2-Tetrachloroethane	BRL	2.8		ug/Kg-dry	208832	1	06/15/2015 14:00	CG
1,1,2-Trichloroethane	BRL	2.8		ug/Kg-dry	208832	1	06/15/2015 14:00	CG
1,1-Dichloroethane	BRL	2.8		ug/Kg-dry	208832	1	06/15/2015 14:00	CG
1,1-Dichloroethene	BRL	2.8		ug/Kg-dry	208832	1	06/15/2015 14:00	CG
1,2,4-Trichlorobenzene	BRL	2.8		ug/Kg-dry	208832	1	06/15/2015 14:00	CG

**Qualifiers:**

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- Narr See case narrative
- NC Not confirmed
- < Less than Result value
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Analytical Environmental Services, Inc

Date: 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15160-SB-3-2
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/9/2015 8:47:00 AM
<b>Lab ID:</b> 1506C34-015	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,2-Dibromo-3-chloropropane	BRL	2.8		ug/Kg-dry	208832	1	06/15/2015 14:00	CG
1,2-Dibromoethane	BRL	2.8		ug/Kg-dry	208832	1	06/15/2015 14:00	CG
1,2-Dichlorobenzene	BRL	2.8		ug/Kg-dry	208832	1	06/15/2015 14:00	CG
1,2-Dichloroethane	BRL	2.8		ug/Kg-dry	208832	1	06/15/2015 14:00	CG
1,2-Dichloropropane	BRL	2.8		ug/Kg-dry	208832	1	06/15/2015 14:00	CG
1,3-Dichlorobenzene	BRL	2.8		ug/Kg-dry	208832	1	06/15/2015 14:00	CG
1,4-Dichlorobenzene	BRL	2.8		ug/Kg-dry	208832	1	06/15/2015 14:00	CG
2-Butanone	BRL	28		ug/Kg-dry	208832	1	06/15/2015 14:00	CG
2-Hexanone	BRL	5.7		ug/Kg-dry	208832	1	06/15/2015 14:00	CG
4-Methyl-2-pentanone	BRL	5.7		ug/Kg-dry	208832	1	06/15/2015 14:00	CG
Acetone	BRL	57		ug/Kg-dry	208832	1	06/15/2015 14:00	CG
Benzene	BRL	2.8		ug/Kg-dry	208832	1	06/15/2015 14:00	CG
Bromodichloromethane	BRL	2.8		ug/Kg-dry	208832	1	06/15/2015 14:00	CG
Bromoform	BRL	2.8		ug/Kg-dry	208832	1	06/15/2015 14:00	CG
Bromomethane	BRL	2.8		ug/Kg-dry	208832	1	06/15/2015 14:00	CG
Carbon disulfide	BRL	5.7		ug/Kg-dry	208832	1	06/15/2015 14:00	CG
Carbon tetrachloride	BRL	2.8		ug/Kg-dry	208832	1	06/15/2015 14:00	CG
Chlorobenzene	BRL	2.8		ug/Kg-dry	208832	1	06/15/2015 14:00	CG
Chloroethane	BRL	5.7		ug/Kg-dry	208832	1	06/15/2015 14:00	CG
Chloroform	BRL	2.8		ug/Kg-dry	208832	1	06/15/2015 14:00	CG
Chloromethane	BRL	5.7		ug/Kg-dry	208832	1	06/15/2015 14:00	CG
cis-1,2-Dichloroethene	BRL	2.8		ug/Kg-dry	208832	1	06/15/2015 14:00	CG
cis-1,3-Dichloropropene	BRL	2.8		ug/Kg-dry	208832	1	06/15/2015 14:00	CG
Cyclohexane	BRL	2.8		ug/Kg-dry	208832	1	06/15/2015 14:00	CG
Dibromochloromethane	BRL	2.8		ug/Kg-dry	208832	1	06/15/2015 14:00	CG
Dichlorodifluoromethane	BRL	5.7		ug/Kg-dry	208832	1	06/15/2015 14:00	CG
Ethylbenzene	BRL	2.8		ug/Kg-dry	208832	1	06/15/2015 14:00	CG
Freon-113	BRL	5.7		ug/Kg-dry	208832	1	06/15/2015 14:00	CG
Isopropylbenzene	BRL	2.8		ug/Kg-dry	208832	1	06/15/2015 14:00	CG
m,p-Xylene	BRL	2.8		ug/Kg-dry	208832	1	06/15/2015 14:00	CG
Methyl acetate	BRL	2.8		ug/Kg-dry	208832	1	06/15/2015 14:00	CG
Methyl tert-butyl ether	BRL	2.8		ug/Kg-dry	208832	1	06/15/2015 14:00	CG
Methylcyclohexane	BRL	2.8		ug/Kg-dry	208832	1	06/15/2015 14:00	CG
Methylene chloride	BRL	11		ug/Kg-dry	208832	1	06/15/2015 14:00	CG
o-Xylene	BRL	2.8		ug/Kg-dry	208832	1	06/15/2015 14:00	CG
Styrene	BRL	2.8		ug/Kg-dry	208832	1	06/15/2015 14:00	CG
Tetrachloroethene	BRL	2.8		ug/Kg-dry	208832	1	06/15/2015 14:00	CG
Toluene	BRL	2.8		ug/Kg-dry	208832	1	06/15/2015 14:00	CG
trans-1,2-Dichloroethene	BRL	2.8		ug/Kg-dry	208832	1	06/15/2015 14:00	CG
trans-1,3-Dichloropropene	BRL	2.8		ug/Kg-dry	208832	1	06/15/2015 14:00	CG
Trichloroethene	BRL	2.8		ug/Kg-dry	208832	1	06/15/2015 14:00	CG

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**Analytical Environmental Services, Inc**

**Date:** 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15160-SB-3-2
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/9/2015 8:47:00 AM
<b>Lab ID:</b> 1506C34-015	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>		<b>(SW5035)</b>						
Trichlorofluoromethane	BRL	2.8		ug/Kg-dry	208832	1	06/15/2015 14:00	CG
Vinyl chloride	BRL	5.7		ug/Kg-dry	208832	1	06/15/2015 14:00	CG
Surr: 4-Bromofluorobenzene	98	70-128		%REC	208832	1	06/15/2015 14:00	CG
Surr: Dibromofluoromethane	109	78.2-128		%REC	208832	1	06/15/2015 14:00	CG
Surr: Toluene-d8	98	76.5-116		%REC	208832	1	06/15/2015 14:00	CG
<b>METALS, TOTAL SW6010C</b>		<b>(SW3050B)</b>						
Arsenic	BRL	5.63		mg/Kg-dry	208707	1	06/13/2015 02:32	TA
Barium	47.3	5.63		mg/Kg-dry	208707	1	06/13/2015 02:32	TA
Cadmium	BRL	2.82		mg/Kg-dry	208707	1	06/13/2015 02:32	TA
Chromium	8.66	2.82		mg/Kg-dry	208707	1	06/13/2015 02:32	TA
Lead	10.0	5.63		mg/Kg-dry	208707	1	06/13/2015 02:32	TA
Nickel	BRL	5.63		mg/Kg-dry	208707	1	06/13/2015 02:32	TA
Phosphorus	35.3	28.2		mg/Kg-dry	208707	1	06/15/2015 16:56	IO
Selenium	BRL	5.63		mg/Kg-dry	208707	1	06/13/2015 02:32	TA
Silver	BRL	2.82		mg/Kg-dry	208707	1	06/13/2015 02:32	TA
Zinc	BRL	5.63		mg/Kg-dry	208707	1	06/13/2015 02:32	TA
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	17.2	0		wt%	R293980	1	06/16/2015 10:00	PF

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**Analytical Environmental Services, Inc**

**Date:** 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15160-SB-4-2
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/9/2015 8:59:00 AM
<b>Lab ID:</b> 1506C34-016	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TOTAL MERCURY SW7471B</b>					<b>(SW7471B)</b>			
Mercury	BRL	0.128		mg/Kg-dry	208773	1	06/15/2015 16:24	TA
<b>TCL-SEMIVOLATILE ORGANICS SW8270D</b>					<b>(SW3550C)</b>			
1,1'-Biphenyl	BRL	430		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
2,4,5-Trichlorophenol	BRL	2200		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
2,4,6-Trichlorophenol	BRL	430		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
2,4-Dichlorophenol	BRL	430		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
2,4-Dimethylphenol	BRL	430		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
2,4-Dinitrophenol	BRL	2200		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
2,4-Dinitrotoluene	BRL	430		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
2,6-Dinitrotoluene	BRL	430		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
2-Chloronaphthalene	BRL	430		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
2-Chlorophenol	BRL	430		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
2-Methylnaphthalene	BRL	430		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
2-Methylphenol	BRL	430		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
2-Nitroaniline	BRL	2200		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
2-Nitrophenol	BRL	430		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
3,3'-Dichlorobenzidine	BRL	880		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
3-Nitroaniline	BRL	2200		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
4,6-Dinitro-2-methylphenol	BRL	2200		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
4-Bromophenyl phenyl ether	BRL	430		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
4-Chloro-3-methylphenol	BRL	430		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
4-Chloroaniline	BRL	430		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
4-Chlorophenyl phenyl ether	BRL	430		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
4-Methylphenol	BRL	430		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
4-Nitroaniline	BRL	2200		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
4-Nitrophenol	BRL	2200		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
Acenaphthene	BRL	430		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
Acenaphthylene	BRL	430		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
Acetophenone	BRL	430		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
Anthracene	BRL	430		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
Atrazine	BRL	430		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
Benz(a)anthracene	BRL	430		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
Benzaldehyde	BRL	430		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
Benzo(a)pyrene	BRL	430		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
Benzo(b)fluoranthene	BRL	430		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
Benzo(g,h,i)perylene	BRL	430		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
Benzo(k)fluoranthene	BRL	430		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
Bis(2-chloroethoxy)methane	BRL	430		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
Bis(2-chloroethyl)ether	BRL	430		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
Bis(2-chloroisopropyl)ether	BRL	430		ug/Kg-dry	208413	1	06/12/2015 18:15	YH

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**Analytical Environmental Services, Inc**

**Date:** 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15160-SB-4-2
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/9/2015 8:59:00 AM
<b>Lab ID:</b> 1506C34-016	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL-SEMIVOLATILE ORGANICS SW8270D</b>		<b>(SW3550C)</b>						
Bis(2-ethylhexyl)phthalate	BRL	430		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
Butyl benzyl phthalate	BRL	430		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
Caprolactam	BRL	430		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
Carbazole	BRL	430		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
Chrysene	BRL	430		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
Di-n-butyl phthalate	BRL	430		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
Di-n-octyl phthalate	BRL	430		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
Dibenz(a,h)anthracene	BRL	430		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
Dibenzofuran	BRL	430		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
Diethyl phthalate	BRL	430		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
Dimethyl phthalate	BRL	430		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
Fluoranthene	BRL	430		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
Fluorene	BRL	430		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
Hexachlorobenzene	BRL	430		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
Hexachlorobutadiene	BRL	430		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
Hexachlorocyclopentadiene	BRL	860		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
Hexachloroethane	BRL	430		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
Indeno(1,2,3-cd)pyrene	BRL	430		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
Isophorone	BRL	430		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
N-Nitrosodi-n-propylamine	BRL	430		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
N-Nitrosodiphenylamine	BRL	430		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
Naphthalene	BRL	430		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
Nitrobenzene	BRL	430		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
Pentachlorophenol	BRL	2200		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
Phenanthrene	BRL	430		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
Phenol	BRL	430		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
Pyrene	BRL	430		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
Surr: 2,4,6-Tribromophenol	86.7	41-128		%REC	208413	1	06/12/2015 18:15	YH
Surr: 2-Fluorobiphenyl	79.2	47-120		%REC	208413	1	06/12/2015 18:15	YH
Surr: 2-Fluorophenol	77	38.3-120		%REC	208413	1	06/12/2015 18:15	YH
Surr: 4-Terphenyl-d14	92.9	51.4-125		%REC	208413	1	06/12/2015 18:15	YH
Surr: Nitrobenzene-d5	76.4	40.1-120		%REC	208413	1	06/12/2015 18:15	YH
Surr: Phenol-d5	81.9	40.3-120		%REC	208413	1	06/12/2015 18:15	YH
<b>TCL VOLATILE ORGANICS SW8260B</b>		<b>(SW5035)</b>						
1,1,1-Trichloroethane	BRL	2.8		ug/Kg-dry	208832	1	06/16/2015 15:29	CG
1,1,2,2-Tetrachloroethane	BRL	2.8		ug/Kg-dry	208832	1	06/16/2015 15:29	CG
1,1,2-Trichloroethane	BRL	2.8		ug/Kg-dry	208832	1	06/16/2015 15:29	CG
1,1-Dichloroethane	BRL	2.8		ug/Kg-dry	208832	1	06/16/2015 15:29	CG
1,1-Dichloroethene	BRL	2.8		ug/Kg-dry	208832	1	06/16/2015 15:29	CG
1,2,4-Trichlorobenzene	BRL	2.8		ug/Kg-dry	208832	1	06/16/2015 15:29	CG

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<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15160-SB-4-2
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/9/2015 8:59:00 AM
<b>Lab ID:</b> 1506C34-016	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,2-Dibromo-3-chloropropane	BRL	2.8		ug/Kg-dry	208832	1	06/16/2015 15:29	CG
1,2-Dibromoethane	BRL	2.8		ug/Kg-dry	208832	1	06/16/2015 15:29	CG
1,2-Dichlorobenzene	BRL	2.8		ug/Kg-dry	208832	1	06/16/2015 15:29	CG
1,2-Dichloroethane	BRL	2.8		ug/Kg-dry	208832	1	06/16/2015 15:29	CG
1,2-Dichloropropane	BRL	2.8		ug/Kg-dry	208832	1	06/16/2015 15:29	CG
1,3-Dichlorobenzene	BRL	2.8		ug/Kg-dry	208832	1	06/16/2015 15:29	CG
1,4-Dichlorobenzene	BRL	2.8		ug/Kg-dry	208832	1	06/16/2015 15:29	CG
2-Butanone	BRL	28		ug/Kg-dry	208832	1	06/16/2015 15:29	CG
2-Hexanone	BRL	5.5		ug/Kg-dry	208832	1	06/16/2015 15:29	CG
4-Methyl-2-pentanone	BRL	5.5		ug/Kg-dry	208832	1	06/16/2015 15:29	CG
Acetone	BRL	55		ug/Kg-dry	208832	1	06/16/2015 15:29	CG
Benzene	BRL	2.8		ug/Kg-dry	208832	1	06/16/2015 15:29	CG
Bromodichloromethane	BRL	2.8		ug/Kg-dry	208832	1	06/16/2015 15:29	CG
Bromoform	BRL	2.8		ug/Kg-dry	208832	1	06/16/2015 15:29	CG
Bromomethane	BRL	2.8		ug/Kg-dry	208832	1	06/16/2015 15:29	CG
Carbon disulfide	BRL	5.5		ug/Kg-dry	208832	1	06/16/2015 15:29	CG
Carbon tetrachloride	BRL	2.8		ug/Kg-dry	208832	1	06/16/2015 15:29	CG
Chlorobenzene	BRL	2.8		ug/Kg-dry	208832	1	06/16/2015 15:29	CG
Chloroethane	BRL	5.5		ug/Kg-dry	208832	1	06/16/2015 15:29	CG
Chloroform	BRL	2.8		ug/Kg-dry	208832	1	06/16/2015 15:29	CG
Chloromethane	BRL	5.5		ug/Kg-dry	208832	1	06/16/2015 15:29	CG
cis-1,2-Dichloroethene	BRL	2.8		ug/Kg-dry	208832	1	06/16/2015 15:29	CG
cis-1,3-Dichloropropene	BRL	2.8		ug/Kg-dry	208832	1	06/16/2015 15:29	CG
Cyclohexane	BRL	2.8		ug/Kg-dry	208832	1	06/16/2015 15:29	CG
Dibromochloromethane	BRL	2.8		ug/Kg-dry	208832	1	06/16/2015 15:29	CG
Dichlorodifluoromethane	BRL	5.5		ug/Kg-dry	208832	1	06/16/2015 15:29	CG
Ethylbenzene	BRL	2.8		ug/Kg-dry	208832	1	06/16/2015 15:29	CG
Freon-113	BRL	5.5		ug/Kg-dry	208832	1	06/16/2015 15:29	CG
Isopropylbenzene	BRL	2.8		ug/Kg-dry	208832	1	06/16/2015 15:29	CG
m,p-Xylene	BRL	2.8		ug/Kg-dry	208832	1	06/16/2015 15:29	CG
Methyl acetate	BRL	2.8		ug/Kg-dry	208832	1	06/16/2015 15:29	CG
Methyl tert-butyl ether	BRL	2.8		ug/Kg-dry	208832	1	06/16/2015 15:29	CG
Methylcyclohexane	BRL	2.8		ug/Kg-dry	208832	1	06/16/2015 15:29	CG
Methylene chloride	BRL	11		ug/Kg-dry	208832	1	06/16/2015 15:29	CG
o-Xylene	BRL	2.8		ug/Kg-dry	208832	1	06/16/2015 15:29	CG
Styrene	BRL	2.8		ug/Kg-dry	208832	1	06/16/2015 15:29	CG
Tetrachloroethene	BRL	2.8		ug/Kg-dry	208832	1	06/16/2015 15:29	CG
Toluene	BRL	2.8		ug/Kg-dry	208832	1	06/16/2015 15:29	CG
trans-1,2-Dichloroethene	BRL	2.8		ug/Kg-dry	208832	1	06/16/2015 15:29	CG
trans-1,3-Dichloropropene	BRL	2.8		ug/Kg-dry	208832	1	06/16/2015 15:29	CG
Trichloroethene	BRL	2.8		ug/Kg-dry	208832	1	06/16/2015 15:29	CG

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15160-SB-4-2
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/9/2015 8:59:00 AM
<b>Lab ID:</b> 1506C34-016	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>		<b>(SW5035)</b>						
Trichlorofluoromethane	BRL	2.8		ug/Kg-dry	208832	1	06/16/2015 15:29	CG
Vinyl chloride	BRL	5.5		ug/Kg-dry	208832	1	06/16/2015 15:29	CG
Surr: 4-Bromofluorobenzene	85.2	70-128		%REC	208832	1	06/16/2015 15:29	CG
Surr: Dibromofluoromethane	96.8	78.2-128		%REC	208832	1	06/16/2015 15:29	CG
Surr: Toluene-d8	98.6	76.5-116		%REC	208832	1	06/16/2015 15:29	CG
<b>METALS, TOTAL SW6010C</b>		<b>(SW3050B)</b>						
Arsenic	BRL	6.33		mg/Kg-dry	208707	1	06/13/2015 02:35	TA
Barium	45.8	6.33		mg/Kg-dry	208707	1	06/13/2015 02:35	TA
Cadmium	BRL	3.16		mg/Kg-dry	208707	1	06/13/2015 02:35	TA
Chromium	16.9	3.16		mg/Kg-dry	208707	1	06/13/2015 02:35	TA
Lead	12.0	6.33		mg/Kg-dry	208707	1	06/13/2015 02:35	TA
Nickel	BRL	6.33		mg/Kg-dry	208707	1	06/13/2015 02:35	TA
Phosphorus	42.6	31.6		mg/Kg-dry	208707	1	06/15/2015 16:59	IO
Selenium	BRL	6.33		mg/Kg-dry	208707	1	06/13/2015 02:35	TA
Silver	BRL	3.16		mg/Kg-dry	208707	1	06/13/2015 02:35	TA
Zinc	BRL	6.33		mg/Kg-dry	208707	1	06/13/2015 02:35	TA
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	23.6	0		wt%	R293980	1	06/16/2015 10:00	PF

**Qualifiers:**

- \* Value exceeds maximum contaminant level
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- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15159-SB-5-2
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/8/2015 4:53:00 PM
<b>Lab ID:</b> 1506C34-017	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TOTAL MERCURY SW7471B</b>					<b>(SW7471B)</b>			
Mercury	BRL	0.115		mg/Kg-dry	208773	1	06/15/2015 16:26	TA
<b>TCL-SEMIVOLATILE ORGANICS SW8270D</b>					<b>(SW3550C)</b>			
1,1'-Biphenyl	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:31	YH
2,4,5-Trichlorophenol	BRL	2000		ug/Kg-dry	208413	1	06/12/2015 16:31	YH
2,4,6-Trichlorophenol	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:31	YH
2,4-Dichlorophenol	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:31	YH
2,4-Dimethylphenol	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:31	YH
2,4-Dinitrophenol	BRL	2000		ug/Kg-dry	208413	1	06/12/2015 16:31	YH
2,4-Dinitrotoluene	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:31	YH
2,6-Dinitrotoluene	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:31	YH
2-Chloronaphthalene	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:31	YH
2-Chlorophenol	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:31	YH
2-Methylnaphthalene	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:31	YH
2-Methylphenol	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:31	YH
2-Nitroaniline	BRL	2000		ug/Kg-dry	208413	1	06/12/2015 16:31	YH
2-Nitrophenol	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:31	YH
3,3'-Dichlorobenzidine	BRL	780		ug/Kg-dry	208413	1	06/12/2015 16:31	YH
3-Nitroaniline	BRL	2000		ug/Kg-dry	208413	1	06/12/2015 16:31	YH
4,6-Dinitro-2-methylphenol	BRL	2000		ug/Kg-dry	208413	1	06/12/2015 16:31	YH
4-Bromophenyl phenyl ether	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:31	YH
4-Chloro-3-methylphenol	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:31	YH
4-Chloroaniline	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:31	YH
4-Chlorophenyl phenyl ether	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:31	YH
4-Methylphenol	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:31	YH
4-Nitroaniline	BRL	2000		ug/Kg-dry	208413	1	06/12/2015 16:31	YH
4-Nitrophenol	BRL	2000		ug/Kg-dry	208413	1	06/12/2015 16:31	YH
Acenaphthene	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:31	YH
Acenaphthylene	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:31	YH
Acetophenone	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:31	YH
Anthracene	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:31	YH
Atrazine	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:31	YH
Benz(a)anthracene	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:31	YH
Benzaldehyde	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:31	YH
Benzo(a)pyrene	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:31	YH
Benzo(b)fluoranthene	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:31	YH
Benzo(g,h,i)perylene	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:31	YH
Benzo(k)fluoranthene	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:31	YH
Bis(2-chloroethoxy)methane	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:31	YH
Bis(2-chloroethyl)ether	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:31	YH
Bis(2-chloroisopropyl)ether	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:31	YH

**Qualifiers:**

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- NC Not confirmed
- < Less than Result value
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**Analytical Environmental Services, Inc**

**Date:** 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15159-SB-5-2
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/8/2015 4:53:00 PM
<b>Lab ID:</b> 1506C34-017	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL-SEMIVOLATILE ORGANICS SW8270D</b>		<b>(SW3550C)</b>						
Bis(2-ethylhexyl)phthalate	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:31	YH
Butyl benzyl phthalate	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:31	YH
Caprolactam	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:31	YH
Carbazole	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:31	YH
Chrysene	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:31	YH
Di-n-butyl phthalate	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:31	YH
Di-n-octyl phthalate	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:31	YH
Dibenz(a,h)anthracene	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:31	YH
Dibenzofuran	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:31	YH
Diethyl phthalate	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:31	YH
Dimethyl phthalate	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:31	YH
Fluoranthene	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:31	YH
Fluorene	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:31	YH
Hexachlorobenzene	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:31	YH
Hexachlorobutadiene	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:31	YH
Hexachlorocyclopentadiene	BRL	770		ug/Kg-dry	208413	1	06/12/2015 16:31	YH
Hexachloroethane	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:31	YH
Indeno(1,2,3-cd)pyrene	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:31	YH
Isophorone	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:31	YH
N-Nitrosodi-n-propylamine	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:31	YH
N-Nitrosodiphenylamine	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:31	YH
Naphthalene	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:31	YH
Nitrobenzene	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:31	YH
Pentachlorophenol	BRL	2000		ug/Kg-dry	208413	1	06/12/2015 16:31	YH
Phenanthrene	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:31	YH
Phenol	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:31	YH
Pyrene	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:31	YH
Surr: 2,4,6-Tribromophenol	82.4	41-128		%REC	208413	1	06/12/2015 16:31	YH
Surr: 2-Fluorobiphenyl	82.1	47-120		%REC	208413	1	06/12/2015 16:31	YH
Surr: 2-Fluorophenol	73.2	38.3-120		%REC	208413	1	06/12/2015 16:31	YH
Surr: 4-Terphenyl-d14	83.9	51.4-125		%REC	208413	1	06/12/2015 16:31	YH
Surr: Nitrobenzene-d5	68.1	40.1-120		%REC	208413	1	06/12/2015 16:31	YH
Surr: Phenol-d5	88.9	40.3-120		%REC	208413	1	06/12/2015 16:31	YH
<b>TCL VOLATILE ORGANICS SW8260B</b>		<b>(SW5035)</b>						
1,1,1-Trichloroethane	BRL	2.4		ug/Kg-dry	208832	1	06/15/2015 14:48	CG
1,1,2,2-Tetrachloroethane	BRL	2.4		ug/Kg-dry	208832	1	06/15/2015 14:48	CG
1,1,2-Trichloroethane	BRL	2.4		ug/Kg-dry	208832	1	06/15/2015 14:48	CG
1,1-Dichloroethane	BRL	2.4		ug/Kg-dry	208832	1	06/15/2015 14:48	CG
1,1-Dichloroethene	BRL	2.4		ug/Kg-dry	208832	1	06/15/2015 14:48	CG
1,2,4-Trichlorobenzene	BRL	2.4		ug/Kg-dry	208832	1	06/15/2015 14:48	CG

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
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- N Analyte not NELAC certified
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- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15159-SB-5-2
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/8/2015 4:53:00 PM
<b>Lab ID:</b> 1506C34-017	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,2-Dibromo-3-chloropropane	BRL	2.4		ug/Kg-dry	208832	1	06/15/2015 14:48	CG
1,2-Dibromoethane	BRL	2.4		ug/Kg-dry	208832	1	06/15/2015 14:48	CG
1,2-Dichlorobenzene	BRL	2.4		ug/Kg-dry	208832	1	06/15/2015 14:48	CG
1,2-Dichloroethane	BRL	2.4		ug/Kg-dry	208832	1	06/15/2015 14:48	CG
1,2-Dichloropropane	BRL	2.4		ug/Kg-dry	208832	1	06/15/2015 14:48	CG
1,3-Dichlorobenzene	BRL	2.4		ug/Kg-dry	208832	1	06/15/2015 14:48	CG
1,4-Dichlorobenzene	BRL	2.4		ug/Kg-dry	208832	1	06/15/2015 14:48	CG
2-Butanone	BRL	24		ug/Kg-dry	208832	1	06/15/2015 14:48	CG
2-Hexanone	BRL	4.9		ug/Kg-dry	208832	1	06/15/2015 14:48	CG
4-Methyl-2-pentanone	BRL	4.9		ug/Kg-dry	208832	1	06/15/2015 14:48	CG
Acetone	110	49		ug/Kg-dry	208832	1	06/15/2015 14:48	CG
Benzene	BRL	2.4		ug/Kg-dry	208832	1	06/15/2015 14:48	CG
Bromodichloromethane	BRL	2.4		ug/Kg-dry	208832	1	06/15/2015 14:48	CG
Bromoform	BRL	2.4		ug/Kg-dry	208832	1	06/15/2015 14:48	CG
Bromomethane	BRL	2.4		ug/Kg-dry	208832	1	06/15/2015 14:48	CG
Carbon disulfide	BRL	4.9		ug/Kg-dry	208832	1	06/15/2015 14:48	CG
Carbon tetrachloride	BRL	2.4		ug/Kg-dry	208832	1	06/15/2015 14:48	CG
Chlorobenzene	BRL	2.4		ug/Kg-dry	208832	1	06/15/2015 14:48	CG
Chloroethane	BRL	4.9		ug/Kg-dry	208832	1	06/15/2015 14:48	CG
Chloroform	BRL	2.4		ug/Kg-dry	208832	1	06/15/2015 14:48	CG
Chloromethane	BRL	4.9		ug/Kg-dry	208832	1	06/15/2015 14:48	CG
cis-1,2-Dichloroethene	BRL	2.4		ug/Kg-dry	208832	1	06/15/2015 14:48	CG
cis-1,3-Dichloropropene	BRL	2.4		ug/Kg-dry	208832	1	06/15/2015 14:48	CG
Cyclohexane	BRL	2.4		ug/Kg-dry	208832	1	06/15/2015 14:48	CG
Dibromochloromethane	BRL	2.4		ug/Kg-dry	208832	1	06/15/2015 14:48	CG
Dichlorodifluoromethane	BRL	4.9		ug/Kg-dry	208832	1	06/15/2015 14:48	CG
Ethylbenzene	BRL	2.4		ug/Kg-dry	208832	1	06/15/2015 14:48	CG
Freon-113	BRL	4.9		ug/Kg-dry	208832	1	06/15/2015 14:48	CG
Isopropylbenzene	BRL	2.4		ug/Kg-dry	208832	1	06/15/2015 14:48	CG
m,p-Xylene	BRL	2.4		ug/Kg-dry	208832	1	06/15/2015 14:48	CG
Methyl acetate	BRL	2.4		ug/Kg-dry	208832	1	06/15/2015 14:48	CG
Methyl tert-butyl ether	BRL	2.4		ug/Kg-dry	208832	1	06/15/2015 14:48	CG
Methylcyclohexane	BRL	2.4		ug/Kg-dry	208832	1	06/15/2015 14:48	CG
Methylene chloride	BRL	9.8		ug/Kg-dry	208832	1	06/15/2015 14:48	CG
o-Xylene	BRL	2.4		ug/Kg-dry	208832	1	06/15/2015 14:48	CG
Styrene	BRL	2.4		ug/Kg-dry	208832	1	06/15/2015 14:48	CG
Tetrachloroethene	BRL	2.4		ug/Kg-dry	208832	1	06/15/2015 14:48	CG
Toluene	BRL	2.4		ug/Kg-dry	208832	1	06/15/2015 14:48	CG
trans-1,2-Dichloroethene	BRL	2.4		ug/Kg-dry	208832	1	06/15/2015 14:48	CG
trans-1,3-Dichloropropene	BRL	2.4		ug/Kg-dry	208832	1	06/15/2015 14:48	CG
Trichloroethene	BRL	2.4		ug/Kg-dry	208832	1	06/15/2015 14:48	CG

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit



**Analytical Environmental Services, Inc**

**Date:** 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15159-SB-5-2
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/8/2015 4:53:00 PM
<b>Lab ID:</b> 1506C34-017	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>		<b>(SW5035)</b>						
Trichlorofluoromethane	BRL	2.4		ug/Kg-dry	208832	1	06/15/2015 14:48	CG
Vinyl chloride	BRL	4.9		ug/Kg-dry	208832	1	06/15/2015 14:48	CG
Surr: 4-Bromofluorobenzene	87.6	70-128		%REC	208832	1	06/15/2015 14:48	CG
Surr: Dibromofluoromethane	111	78.2-128		%REC	208832	1	06/15/2015 14:48	CG
Surr: Toluene-d8	99.8	76.5-116		%REC	208832	1	06/15/2015 14:48	CG
<b>METALS, TOTAL SW6010C</b>		<b>(SW3050B)</b>						
Arsenic	BRL	5.81		mg/Kg-dry	208707	1	06/13/2015 02:38	TA
Barium	53.9	5.81		mg/Kg-dry	208707	1	06/13/2015 02:38	TA
Cadmium	BRL	2.91		mg/Kg-dry	208707	1	06/13/2015 02:38	TA
Chromium	10.8	2.91		mg/Kg-dry	208707	1	06/13/2015 02:38	TA
Lead	12.9	5.81		mg/Kg-dry	208707	1	06/13/2015 02:38	TA
Nickel	BRL	5.81		mg/Kg-dry	208707	1	06/13/2015 02:38	TA
Phosphorus	150	29.1		mg/Kg-dry	208707	1	06/15/2015 17:02	IO
Selenium	BRL	5.81		mg/Kg-dry	208707	1	06/13/2015 02:38	TA
Silver	BRL	2.91		mg/Kg-dry	208707	1	06/13/2015 02:38	TA
Zinc	21.2	5.81		mg/Kg-dry	208707	1	06/13/2015 02:38	TA
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	14.5	0		wt%	R293980	1	06/16/2015 10:00	PF

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15159-SB-6-2
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/8/2015 4:11:00 PM
<b>Lab ID:</b> 1506C34-018	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TOTAL MERCURY SW7471B</b>					<b>(SW7471B)</b>			
Mercury	BRL	0.110		mg/Kg-dry	208773	1	06/15/2015 16:33	TA
<b>TCL-SEMIVOLATILE ORGANICS SW8270D</b>					<b>(SW3550C)</b>			
1,1'-Biphenyl	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:57	YH
2,4,5-Trichlorophenol	BRL	2000		ug/Kg-dry	208413	1	06/12/2015 16:57	YH
2,4,6-Trichlorophenol	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:57	YH
2,4-Dichlorophenol	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:57	YH
2,4-Dimethylphenol	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:57	YH
2,4-Dinitrophenol	BRL	2000		ug/Kg-dry	208413	1	06/12/2015 16:57	YH
2,4-Dinitrotoluene	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:57	YH
2,6-Dinitrotoluene	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:57	YH
2-Chloronaphthalene	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:57	YH
2-Chlorophenol	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:57	YH
2-Methylnaphthalene	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:57	YH
2-Methylphenol	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:57	YH
2-Nitroaniline	BRL	2000		ug/Kg-dry	208413	1	06/12/2015 16:57	YH
2-Nitrophenol	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:57	YH
3,3'-Dichlorobenzidine	BRL	800		ug/Kg-dry	208413	1	06/12/2015 16:57	YH
3-Nitroaniline	BRL	2000		ug/Kg-dry	208413	1	06/12/2015 16:57	YH
4,6-Dinitro-2-methylphenol	BRL	2000		ug/Kg-dry	208413	1	06/12/2015 16:57	YH
4-Bromophenyl phenyl ether	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:57	YH
4-Chloro-3-methylphenol	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:57	YH
4-Chloroaniline	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:57	YH
4-Chlorophenyl phenyl ether	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:57	YH
4-Methylphenol	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:57	YH
4-Nitroaniline	BRL	2000		ug/Kg-dry	208413	1	06/12/2015 16:57	YH
4-Nitrophenol	BRL	2000		ug/Kg-dry	208413	1	06/12/2015 16:57	YH
Acenaphthene	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:57	YH
Acenaphthylene	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:57	YH
Acetophenone	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:57	YH
Anthracene	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:57	YH
Atrazine	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:57	YH
Benz(a)anthracene	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:57	YH
Benzaldehyde	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:57	YH
Benzo(a)pyrene	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:57	YH
Benzo(b)fluoranthene	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:57	YH
Benzo(g,h,i)perylene	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:57	YH
Benzo(k)fluoranthene	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:57	YH
Bis(2-chloroethoxy)methane	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:57	YH
Bis(2-chloroethyl)ether	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:57	YH
Bis(2-chloroisopropyl)ether	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:57	YH

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15159-SB-6-2
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/8/2015 4:11:00 PM
<b>Lab ID:</b> 1506C34-018	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL-SEMIVOLATILE ORGANICS SW8270D</b>		<b>(SW3550C)</b>						
Bis(2-ethylhexyl)phthalate	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:57	YH
Butyl benzyl phthalate	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:57	YH
Caprolactam	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:57	YH
Carbazole	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:57	YH
Chrysene	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:57	YH
Di-n-butyl phthalate	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:57	YH
Di-n-octyl phthalate	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:57	YH
Dibenz(a,h)anthracene	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:57	YH
Dibenzofuran	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:57	YH
Diethyl phthalate	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:57	YH
Dimethyl phthalate	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:57	YH
Fluoranthene	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:57	YH
Fluorene	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:57	YH
Hexachlorobenzene	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:57	YH
Hexachlorobutadiene	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:57	YH
Hexachlorocyclopentadiene	BRL	790		ug/Kg-dry	208413	1	06/12/2015 16:57	YH
Hexachloroethane	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:57	YH
Indeno(1,2,3-cd)pyrene	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:57	YH
Isophorone	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:57	YH
N-Nitrosodi-n-propylamine	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:57	YH
N-Nitrosodiphenylamine	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:57	YH
Naphthalene	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:57	YH
Nitrobenzene	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:57	YH
Pentachlorophenol	BRL	2000		ug/Kg-dry	208413	1	06/12/2015 16:57	YH
Phenanthrene	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:57	YH
Phenol	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:57	YH
Pyrene	BRL	390		ug/Kg-dry	208413	1	06/12/2015 16:57	YH
Surr: 2,4,6-Tribromophenol	80.8	41-128		%REC	208413	1	06/12/2015 16:57	YH
Surr: 2-Fluorobiphenyl	80.6	47-120		%REC	208413	1	06/12/2015 16:57	YH
Surr: 2-Fluorophenol	79.6	38.3-120		%REC	208413	1	06/12/2015 16:57	YH
Surr: 4-Terphenyl-d14	85.4	51.4-125		%REC	208413	1	06/12/2015 16:57	YH
Surr: Nitrobenzene-d5	69.3	40.1-120		%REC	208413	1	06/12/2015 16:57	YH
Surr: Phenol-d5	89.2	40.3-120		%REC	208413	1	06/12/2015 16:57	YH
<b>TCL VOLATILE ORGANICS SW8260B</b>		<b>(SW5035)</b>						
1,1,1-Trichloroethane	BRL	2.6		ug/Kg-dry	208832	1	06/16/2015 15:04	CG
1,1,2,2-Tetrachloroethane	BRL	2.6		ug/Kg-dry	208832	1	06/16/2015 15:04	CG
1,1,2-Trichloroethane	BRL	2.6		ug/Kg-dry	208832	1	06/16/2015 15:04	CG
1,1-Dichloroethane	BRL	2.6		ug/Kg-dry	208832	1	06/16/2015 15:04	CG
1,1-Dichloroethene	BRL	2.6		ug/Kg-dry	208832	1	06/16/2015 15:04	CG
1,2,4-Trichlorobenzene	BRL	2.6		ug/Kg-dry	208832	1	06/16/2015 15:04	CG

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15159-SB-6-2
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/8/2015 4:11:00 PM
<b>Lab ID:</b> 1506C34-018	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,2-Dibromo-3-chloropropane	BRL	2.6		ug/Kg-dry	208832	1	06/16/2015 15:04	CG
1,2-Dibromoethane	BRL	2.6		ug/Kg-dry	208832	1	06/16/2015 15:04	CG
1,2-Dichlorobenzene	BRL	2.6		ug/Kg-dry	208832	1	06/16/2015 15:04	CG
1,2-Dichloroethane	BRL	2.6		ug/Kg-dry	208832	1	06/16/2015 15:04	CG
1,2-Dichloropropane	BRL	2.6		ug/Kg-dry	208832	1	06/16/2015 15:04	CG
1,3-Dichlorobenzene	BRL	2.6		ug/Kg-dry	208832	1	06/16/2015 15:04	CG
1,4-Dichlorobenzene	BRL	2.6		ug/Kg-dry	208832	1	06/16/2015 15:04	CG
2-Butanone	BRL	26		ug/Kg-dry	208832	1	06/16/2015 15:04	CG
2-Hexanone	BRL	5.2		ug/Kg-dry	208832	1	06/16/2015 15:04	CG
4-Methyl-2-pentanone	BRL	5.2		ug/Kg-dry	208832	1	06/16/2015 15:04	CG
Acetone	BRL	52		ug/Kg-dry	208832	1	06/16/2015 15:04	CG
Benzene	BRL	2.6		ug/Kg-dry	208832	1	06/16/2015 15:04	CG
Bromodichloromethane	BRL	2.6		ug/Kg-dry	208832	1	06/16/2015 15:04	CG
Bromoform	BRL	2.6		ug/Kg-dry	208832	1	06/16/2015 15:04	CG
Bromomethane	BRL	2.6		ug/Kg-dry	208832	1	06/16/2015 15:04	CG
Carbon disulfide	BRL	5.2		ug/Kg-dry	208832	1	06/16/2015 15:04	CG
Carbon tetrachloride	BRL	2.6		ug/Kg-dry	208832	1	06/16/2015 15:04	CG
Chlorobenzene	BRL	2.6		ug/Kg-dry	208832	1	06/16/2015 15:04	CG
Chloroethane	BRL	5.2		ug/Kg-dry	208832	1	06/16/2015 15:04	CG
Chloroform	BRL	2.6		ug/Kg-dry	208832	1	06/16/2015 15:04	CG
Chloromethane	BRL	5.2		ug/Kg-dry	208832	1	06/16/2015 15:04	CG
cis-1,2-Dichloroethene	BRL	2.6		ug/Kg-dry	208832	1	06/16/2015 15:04	CG
cis-1,3-Dichloropropene	BRL	2.6		ug/Kg-dry	208832	1	06/16/2015 15:04	CG
Cyclohexane	BRL	2.6		ug/Kg-dry	208832	1	06/16/2015 15:04	CG
Dibromochloromethane	BRL	2.6		ug/Kg-dry	208832	1	06/16/2015 15:04	CG
Dichlorodifluoromethane	BRL	5.2		ug/Kg-dry	208832	1	06/16/2015 15:04	CG
Ethylbenzene	BRL	2.6		ug/Kg-dry	208832	1	06/16/2015 15:04	CG
Freon-113	BRL	5.2		ug/Kg-dry	208832	1	06/16/2015 15:04	CG
Isopropylbenzene	BRL	2.6		ug/Kg-dry	208832	1	06/16/2015 15:04	CG
m,p-Xylene	BRL	2.6		ug/Kg-dry	208832	1	06/16/2015 15:04	CG
Methyl acetate	BRL	2.6		ug/Kg-dry	208832	1	06/16/2015 15:04	CG
Methyl tert-butyl ether	BRL	2.6		ug/Kg-dry	208832	1	06/16/2015 15:04	CG
Methylcyclohexane	BRL	2.6		ug/Kg-dry	208832	1	06/16/2015 15:04	CG
Methylene chloride	BRL	10		ug/Kg-dry	208832	1	06/16/2015 15:04	CG
o-Xylene	BRL	2.6		ug/Kg-dry	208832	1	06/16/2015 15:04	CG
Styrene	BRL	2.6		ug/Kg-dry	208832	1	06/16/2015 15:04	CG
Tetrachloroethene	BRL	2.6		ug/Kg-dry	208832	1	06/16/2015 15:04	CG
Toluene	BRL	2.6		ug/Kg-dry	208832	1	06/16/2015 15:04	CG
trans-1,2-Dichloroethene	BRL	2.6		ug/Kg-dry	208832	1	06/16/2015 15:04	CG
trans-1,3-Dichloropropene	BRL	2.6		ug/Kg-dry	208832	1	06/16/2015 15:04	CG
Trichloroethene	BRL	2.6		ug/Kg-dry	208832	1	06/16/2015 15:04	CG

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15159-SB-6-2
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/8/2015 4:11:00 PM
<b>Lab ID:</b> 1506C34-018	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>			<b>(SW5035)</b>					
Trichlorofluoromethane	BRL	2.6		ug/Kg-dry	208832	1	06/16/2015 15:04	CG
Vinyl chloride	BRL	5.2		ug/Kg-dry	208832	1	06/16/2015 15:04	CG
Surr: 4-Bromofluorobenzene	88.6	70-128		%REC	208832	1	06/16/2015 15:04	CG
Surr: Dibromofluoromethane	101	78.2-128		%REC	208832	1	06/16/2015 15:04	CG
Surr: Toluene-d8	100	76.5-116		%REC	208832	1	06/16/2015 15:04	CG
<b>METALS, TOTAL SW6010C</b>			<b>(SW3050B)</b>					
Arsenic	BRL	5.98		mg/Kg-dry	208707	1	06/13/2015 02:41	TA
Barium	70.9	5.98		mg/Kg-dry	208707	1	06/13/2015 02:41	TA
Cadmium	BRL	2.99		mg/Kg-dry	208707	1	06/13/2015 02:41	TA
Chromium	5.31	2.99		mg/Kg-dry	208707	1	06/13/2015 02:41	TA
Lead	8.24	5.98		mg/Kg-dry	208707	1	06/13/2015 02:41	TA
Nickel	BRL	5.98		mg/Kg-dry	208707	1	06/13/2015 02:41	TA
Phosphorus	59.1	29.9		mg/Kg-dry	208707	1	06/15/2015 17:04	IO
Selenium	BRL	5.98		mg/Kg-dry	208707	1	06/13/2015 02:41	TA
Silver	BRL	2.99		mg/Kg-dry	208707	1	06/13/2015 02:41	TA
Zinc	BRL	5.98		mg/Kg-dry	208707	1	06/13/2015 02:41	TA
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	16.4	0		wt%	R293980	1	06/16/2015 10:00	PF

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15159-SB-7-2
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/8/2015 3:31:00 PM
<b>Lab ID:</b> 1506C34-019	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TOTAL MERCURY SW7471B</b>					<b>(SW7471B)</b>			
Mercury	BRL	0.104		mg/Kg-dry	208773	1	06/15/2015 16:35	TA
<b>TCL-SEMIVOLATILE ORGANICS SW8270D</b>					<b>(SW3550C)</b>			
1,1'-Biphenyl	BRL	350		ug/Kg-dry	208413	1	06/12/2015 17:22	YH
2,4,5-Trichlorophenol	BRL	1800		ug/Kg-dry	208413	1	06/12/2015 17:22	YH
2,4,6-Trichlorophenol	BRL	350		ug/Kg-dry	208413	1	06/12/2015 17:22	YH
2,4-Dichlorophenol	BRL	350		ug/Kg-dry	208413	1	06/12/2015 17:22	YH
2,4-Dimethylphenol	BRL	350		ug/Kg-dry	208413	1	06/12/2015 17:22	YH
2,4-Dinitrophenol	BRL	1800		ug/Kg-dry	208413	1	06/12/2015 17:22	YH
2,4-Dinitrotoluene	BRL	350		ug/Kg-dry	208413	1	06/12/2015 17:22	YH
2,6-Dinitrotoluene	BRL	350		ug/Kg-dry	208413	1	06/12/2015 17:22	YH
2-Chloronaphthalene	BRL	350		ug/Kg-dry	208413	1	06/12/2015 17:22	YH
2-Chlorophenol	BRL	350		ug/Kg-dry	208413	1	06/12/2015 17:22	YH
2-Methylnaphthalene	BRL	350		ug/Kg-dry	208413	1	06/12/2015 17:22	YH
2-Methylphenol	BRL	350		ug/Kg-dry	208413	1	06/12/2015 17:22	YH
2-Nitroaniline	BRL	1800		ug/Kg-dry	208413	1	06/12/2015 17:22	YH
2-Nitrophenol	BRL	350		ug/Kg-dry	208413	1	06/12/2015 17:22	YH
3,3'-Dichlorobenzidine	BRL	700		ug/Kg-dry	208413	1	06/12/2015 17:22	YH
3-Nitroaniline	BRL	1800		ug/Kg-dry	208413	1	06/12/2015 17:22	YH
4,6-Dinitro-2-methylphenol	BRL	1800		ug/Kg-dry	208413	1	06/12/2015 17:22	YH
4-Bromophenyl phenyl ether	BRL	350		ug/Kg-dry	208413	1	06/12/2015 17:22	YH
4-Chloro-3-methylphenol	BRL	350		ug/Kg-dry	208413	1	06/12/2015 17:22	YH
4-Chloroaniline	BRL	350		ug/Kg-dry	208413	1	06/12/2015 17:22	YH
4-Chlorophenyl phenyl ether	BRL	350		ug/Kg-dry	208413	1	06/12/2015 17:22	YH
4-Methylphenol	BRL	350		ug/Kg-dry	208413	1	06/12/2015 17:22	YH
4-Nitroaniline	BRL	1800		ug/Kg-dry	208413	1	06/12/2015 17:22	YH
4-Nitrophenol	BRL	1800		ug/Kg-dry	208413	1	06/12/2015 17:22	YH
Acenaphthene	BRL	350		ug/Kg-dry	208413	1	06/12/2015 17:22	YH
Acenaphthylene	BRL	350		ug/Kg-dry	208413	1	06/12/2015 17:22	YH
Acetophenone	BRL	350		ug/Kg-dry	208413	1	06/12/2015 17:22	YH
Anthracene	BRL	350		ug/Kg-dry	208413	1	06/12/2015 17:22	YH
Atrazine	BRL	350		ug/Kg-dry	208413	1	06/12/2015 17:22	YH
Benz(a)anthracene	BRL	350		ug/Kg-dry	208413	1	06/12/2015 17:22	YH
Benzaldehyde	BRL	350		ug/Kg-dry	208413	1	06/12/2015 17:22	YH
Benzo(a)pyrene	BRL	350		ug/Kg-dry	208413	1	06/12/2015 17:22	YH
Benzo(b)fluoranthene	BRL	350		ug/Kg-dry	208413	1	06/12/2015 17:22	YH
Benzo(g,h,i)perylene	BRL	350		ug/Kg-dry	208413	1	06/12/2015 17:22	YH
Benzo(k)fluoranthene	BRL	350		ug/Kg-dry	208413	1	06/12/2015 17:22	YH
Bis(2-chloroethoxy)methane	BRL	350		ug/Kg-dry	208413	1	06/12/2015 17:22	YH
Bis(2-chloroethyl)ether	BRL	350		ug/Kg-dry	208413	1	06/12/2015 17:22	YH
Bis(2-chloroisopropyl)ether	BRL	350		ug/Kg-dry	208413	1	06/12/2015 17:22	YH

**Qualifiers:**

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- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15159-SB-7-2
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/8/2015 3:31:00 PM
<b>Lab ID:</b> 1506C34-019	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL-SEMIVOLATILE ORGANICS SW8270D</b>		<b>(SW3550C)</b>						
Bis(2-ethylhexyl)phthalate	BRL	350		ug/Kg-dry	208413	1	06/12/2015 17:22	YH
Butyl benzyl phthalate	BRL	350		ug/Kg-dry	208413	1	06/12/2015 17:22	YH
Caprolactam	BRL	350		ug/Kg-dry	208413	1	06/12/2015 17:22	YH
Carbazole	BRL	350		ug/Kg-dry	208413	1	06/12/2015 17:22	YH
Chrysene	BRL	350		ug/Kg-dry	208413	1	06/12/2015 17:22	YH
Di-n-butyl phthalate	BRL	350		ug/Kg-dry	208413	1	06/12/2015 17:22	YH
Di-n-octyl phthalate	BRL	350		ug/Kg-dry	208413	1	06/12/2015 17:22	YH
Dibenz(a,h)anthracene	BRL	350		ug/Kg-dry	208413	1	06/12/2015 17:22	YH
Dibenzofuran	BRL	350		ug/Kg-dry	208413	1	06/12/2015 17:22	YH
Diethyl phthalate	BRL	350		ug/Kg-dry	208413	1	06/12/2015 17:22	YH
Dimethyl phthalate	BRL	350		ug/Kg-dry	208413	1	06/12/2015 17:22	YH
Fluoranthene	BRL	350		ug/Kg-dry	208413	1	06/12/2015 17:22	YH
Fluorene	BRL	350		ug/Kg-dry	208413	1	06/12/2015 17:22	YH
Hexachlorobenzene	BRL	350		ug/Kg-dry	208413	1	06/12/2015 17:22	YH
Hexachlorobutadiene	BRL	350		ug/Kg-dry	208413	1	06/12/2015 17:22	YH
Hexachlorocyclopentadiene	BRL	690		ug/Kg-dry	208413	1	06/12/2015 17:22	YH
Hexachloroethane	BRL	350		ug/Kg-dry	208413	1	06/12/2015 17:22	YH
Indeno(1,2,3-cd)pyrene	BRL	350		ug/Kg-dry	208413	1	06/12/2015 17:22	YH
Isophorone	BRL	350		ug/Kg-dry	208413	1	06/12/2015 17:22	YH
N-Nitrosodi-n-propylamine	BRL	350		ug/Kg-dry	208413	1	06/12/2015 17:22	YH
N-Nitrosodiphenylamine	BRL	350		ug/Kg-dry	208413	1	06/12/2015 17:22	YH
Naphthalene	BRL	350		ug/Kg-dry	208413	1	06/12/2015 17:22	YH
Nitrobenzene	BRL	350		ug/Kg-dry	208413	1	06/12/2015 17:22	YH
Pentachlorophenol	BRL	1800		ug/Kg-dry	208413	1	06/12/2015 17:22	YH
Phenanthrene	BRL	350		ug/Kg-dry	208413	1	06/12/2015 17:22	YH
Phenol	BRL	350		ug/Kg-dry	208413	1	06/12/2015 17:22	YH
Pyrene	BRL	350		ug/Kg-dry	208413	1	06/12/2015 17:22	YH
Surr: 2,4,6-Tribromophenol	87.9	41-128		%REC	208413	1	06/12/2015 17:22	YH
Surr: 2-Fluorobiphenyl	89.6	47-120		%REC	208413	1	06/12/2015 17:22	YH
Surr: 2-Fluorophenol	78.1	38.3-120		%REC	208413	1	06/12/2015 17:22	YH
Surr: 4-Terphenyl-d14	89.9	51.4-125		%REC	208413	1	06/12/2015 17:22	YH
Surr: Nitrobenzene-d5	77.7	40.1-120		%REC	208413	1	06/12/2015 17:22	YH
Surr: Phenol-d5	97.8	40.3-120		%REC	208413	1	06/12/2015 17:22	YH
<b>TCL VOLATILE ORGANICS SW8260B</b>		<b>(SW5035)</b>						
1,1,1-Trichloroethane	BRL	2.2		ug/Kg-dry	208832	1	06/15/2015 15:36	CG
1,1,2,2-Tetrachloroethane	BRL	2.2		ug/Kg-dry	208832	1	06/15/2015 15:36	CG
1,1,2-Trichloroethane	BRL	2.2		ug/Kg-dry	208832	1	06/15/2015 15:36	CG
1,1-Dichloroethane	BRL	2.2		ug/Kg-dry	208832	1	06/15/2015 15:36	CG
1,1-Dichloroethene	BRL	2.2		ug/Kg-dry	208832	1	06/15/2015 15:36	CG
1,2,4-Trichlorobenzene	BRL	2.2		ug/Kg-dry	208832	1	06/15/2015 15:36	CG

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**Analytical Environmental Services, Inc**

**Date:** 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15159-SB-7-2
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/8/2015 3:31:00 PM
<b>Lab ID:</b> 1506C34-019	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,2-Dibromo-3-chloropropane	BRL	2.2		ug/Kg-dry	208832	1	06/15/2015 15:36	CG
1,2-Dibromoethane	BRL	2.2		ug/Kg-dry	208832	1	06/15/2015 15:36	CG
1,2-Dichlorobenzene	BRL	2.2		ug/Kg-dry	208832	1	06/15/2015 15:36	CG
1,2-Dichloroethane	BRL	2.2		ug/Kg-dry	208832	1	06/15/2015 15:36	CG
1,2-Dichloropropane	BRL	2.2		ug/Kg-dry	208832	1	06/15/2015 15:36	CG
1,3-Dichlorobenzene	BRL	2.2		ug/Kg-dry	208832	1	06/15/2015 15:36	CG
1,4-Dichlorobenzene	BRL	2.2		ug/Kg-dry	208832	1	06/15/2015 15:36	CG
2-Butanone	BRL	22		ug/Kg-dry	208832	1	06/15/2015 15:36	CG
2-Hexanone	BRL	4.5		ug/Kg-dry	208832	1	06/15/2015 15:36	CG
4-Methyl-2-pentanone	BRL	4.5		ug/Kg-dry	208832	1	06/15/2015 15:36	CG
Acetone	81	45		ug/Kg-dry	208832	1	06/15/2015 15:36	CG
Benzene	BRL	2.2		ug/Kg-dry	208832	1	06/15/2015 15:36	CG
Bromodichloromethane	BRL	2.2		ug/Kg-dry	208832	1	06/15/2015 15:36	CG
Bromoform	BRL	2.2		ug/Kg-dry	208832	1	06/15/2015 15:36	CG
Bromomethane	BRL	2.2		ug/Kg-dry	208832	1	06/15/2015 15:36	CG
Carbon disulfide	BRL	4.5		ug/Kg-dry	208832	1	06/15/2015 15:36	CG
Carbon tetrachloride	BRL	2.2		ug/Kg-dry	208832	1	06/15/2015 15:36	CG
Chlorobenzene	BRL	2.2		ug/Kg-dry	208832	1	06/15/2015 15:36	CG
Chloroethane	BRL	4.5		ug/Kg-dry	208832	1	06/15/2015 15:36	CG
Chloroform	BRL	2.2		ug/Kg-dry	208832	1	06/15/2015 15:36	CG
Chloromethane	BRL	4.5		ug/Kg-dry	208832	1	06/15/2015 15:36	CG
cis-1,2-Dichloroethene	BRL	2.2		ug/Kg-dry	208832	1	06/15/2015 15:36	CG
cis-1,3-Dichloropropene	BRL	2.2		ug/Kg-dry	208832	1	06/15/2015 15:36	CG
Cyclohexane	BRL	2.2		ug/Kg-dry	208832	1	06/15/2015 15:36	CG
Dibromochloromethane	BRL	2.2		ug/Kg-dry	208832	1	06/15/2015 15:36	CG
Dichlorodifluoromethane	BRL	4.5		ug/Kg-dry	208832	1	06/15/2015 15:36	CG
Ethylbenzene	BRL	2.2		ug/Kg-dry	208832	1	06/15/2015 15:36	CG
Freon-113	BRL	4.5		ug/Kg-dry	208832	1	06/15/2015 15:36	CG
Isopropylbenzene	BRL	2.2		ug/Kg-dry	208832	1	06/15/2015 15:36	CG
m,p-Xylene	BRL	2.2		ug/Kg-dry	208832	1	06/15/2015 15:36	CG
Methyl acetate	BRL	2.2		ug/Kg-dry	208832	1	06/15/2015 15:36	CG
Methyl tert-butyl ether	BRL	2.2		ug/Kg-dry	208832	1	06/15/2015 15:36	CG
Methylcyclohexane	BRL	2.2		ug/Kg-dry	208832	1	06/15/2015 15:36	CG
Methylene chloride	BRL	9.0		ug/Kg-dry	208832	1	06/15/2015 15:36	CG
o-Xylene	BRL	2.2		ug/Kg-dry	208832	1	06/15/2015 15:36	CG
Styrene	BRL	2.2		ug/Kg-dry	208832	1	06/15/2015 15:36	CG
Tetrachloroethene	BRL	2.2		ug/Kg-dry	208832	1	06/15/2015 15:36	CG
Toluene	16	2.2		ug/Kg-dry	208832	1	06/15/2015 15:36	CG
trans-1,2-Dichloroethene	BRL	2.2		ug/Kg-dry	208832	1	06/15/2015 15:36	CG
trans-1,3-Dichloropropene	BRL	2.2		ug/Kg-dry	208832	1	06/15/2015 15:36	CG
Trichloroethene	BRL	2.2		ug/Kg-dry	208832	1	06/15/2015 15:36	CG

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**Analytical Environmental Services, Inc**

**Date:** 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15159-SB-7-2
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/8/2015 3:31:00 PM
<b>Lab ID:</b> 1506C34-019	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>			<b>(SW5035)</b>					
Trichlorofluoromethane	BRL	2.2		ug/Kg-dry	208832	1	06/15/2015 15:36	CG
Vinyl chloride	BRL	4.5		ug/Kg-dry	208832	1	06/15/2015 15:36	CG
Surr: 4-Bromofluorobenzene	82.6	70-128		%REC	208832	1	06/15/2015 15:36	CG
Surr: Dibromofluoromethane	106	78.2-128		%REC	208832	1	06/15/2015 15:36	CG
Surr: Toluene-d8	105	76.5-116		%REC	208832	1	06/15/2015 15:36	CG
<b>METALS, TOTAL SW6010C</b>			<b>(SW3050B)</b>					
Arsenic	BRL	5.06		mg/Kg-dry	208707	1	06/13/2015 02:44	TA
Barium	69.2	5.06		mg/Kg-dry	208707	1	06/13/2015 02:44	TA
Cadmium	BRL	2.53		mg/Kg-dry	208707	1	06/13/2015 02:44	TA
Chromium	11.6	2.53		mg/Kg-dry	208707	1	06/13/2015 02:44	TA
Lead	6.85	5.06		mg/Kg-dry	208707	1	06/13/2015 02:44	TA
Nickel	BRL	5.06		mg/Kg-dry	208707	1	06/13/2015 02:44	TA
Phosphorus	280	25.3		mg/Kg-dry	208707	1	06/15/2015 17:07	IO
Selenium	BRL	5.06		mg/Kg-dry	208707	1	06/13/2015 02:44	TA
Silver	BRL	2.53		mg/Kg-dry	208707	1	06/13/2015 02:44	TA
Zinc	19.2	5.06		mg/Kg-dry	208707	1	06/13/2015 02:44	TA
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	4.87	0		wt%	R293980	1	06/16/2015 10:00	PF

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**Analytical Environmental Services, Inc**

**Date:** 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15159-SB-8-2
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/8/2015 2:45:00 PM
<b>Lab ID:</b> 1506C34-020	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TOTAL MERCURY SW7471B</b>								
Mercury	BRL	0.132		mg/Kg-dry	208773	1	06/15/2015 16:37	TA
<b>TCL-SEMIVOLATILE ORGANICS SW8270D</b>								
1,1'-Biphenyl	BRL	440		ug/Kg-dry	208413	1	06/12/2015 17:49	YH
2,4,5-Trichlorophenol	BRL	2300		ug/Kg-dry	208413	1	06/12/2015 17:49	YH
2,4,6-Trichlorophenol	BRL	440		ug/Kg-dry	208413	1	06/12/2015 17:49	YH
2,4-Dichlorophenol	BRL	440		ug/Kg-dry	208413	1	06/12/2015 17:49	YH
2,4-Dimethylphenol	BRL	440		ug/Kg-dry	208413	1	06/12/2015 17:49	YH
2,4-Dinitrophenol	BRL	2300		ug/Kg-dry	208413	1	06/12/2015 17:49	YH
2,4-Dinitrotoluene	BRL	440		ug/Kg-dry	208413	1	06/12/2015 17:49	YH
2,6-Dinitrotoluene	BRL	440		ug/Kg-dry	208413	1	06/12/2015 17:49	YH
2-Chloronaphthalene	BRL	440		ug/Kg-dry	208413	1	06/12/2015 17:49	YH
2-Chlorophenol	BRL	440		ug/Kg-dry	208413	1	06/12/2015 17:49	YH
2-Methylnaphthalene	BRL	440		ug/Kg-dry	208413	1	06/12/2015 17:49	YH
2-Methylphenol	BRL	440		ug/Kg-dry	208413	1	06/12/2015 17:49	YH
2-Nitroaniline	BRL	2300		ug/Kg-dry	208413	1	06/12/2015 17:49	YH
2-Nitrophenol	BRL	440		ug/Kg-dry	208413	1	06/12/2015 17:49	YH
3,3'-Dichlorobenzidine	BRL	900		ug/Kg-dry	208413	1	06/12/2015 17:49	YH
3-Nitroaniline	BRL	2300		ug/Kg-dry	208413	1	06/12/2015 17:49	YH
4,6-Dinitro-2-methylphenol	BRL	2300		ug/Kg-dry	208413	1	06/12/2015 17:49	YH
4-Bromophenyl phenyl ether	BRL	440		ug/Kg-dry	208413	1	06/12/2015 17:49	YH
4-Chloro-3-methylphenol	BRL	440		ug/Kg-dry	208413	1	06/12/2015 17:49	YH
4-Chloroaniline	BRL	440		ug/Kg-dry	208413	1	06/12/2015 17:49	YH
4-Chlorophenyl phenyl ether	BRL	440		ug/Kg-dry	208413	1	06/12/2015 17:49	YH
4-Methylphenol	BRL	440		ug/Kg-dry	208413	1	06/12/2015 17:49	YH
4-Nitroaniline	BRL	2300		ug/Kg-dry	208413	1	06/12/2015 17:49	YH
4-Nitrophenol	BRL	2300		ug/Kg-dry	208413	1	06/12/2015 17:49	YH
Acenaphthene	BRL	440		ug/Kg-dry	208413	1	06/12/2015 17:49	YH
Acenaphthylene	BRL	440		ug/Kg-dry	208413	1	06/12/2015 17:49	YH
Acetophenone	BRL	440		ug/Kg-dry	208413	1	06/12/2015 17:49	YH
Anthracene	BRL	440		ug/Kg-dry	208413	1	06/12/2015 17:49	YH
Atrazine	BRL	440		ug/Kg-dry	208413	1	06/12/2015 17:49	YH
Benz(a)anthracene	BRL	440		ug/Kg-dry	208413	1	06/12/2015 17:49	YH
Benzaldehyde	BRL	440		ug/Kg-dry	208413	1	06/12/2015 17:49	YH
Benzo(a)pyrene	BRL	440		ug/Kg-dry	208413	1	06/12/2015 17:49	YH
Benzo(b)fluoranthene	BRL	440		ug/Kg-dry	208413	1	06/12/2015 17:49	YH
Benzo(g,h,i)perylene	BRL	440		ug/Kg-dry	208413	1	06/12/2015 17:49	YH
Benzo(k)fluoranthene	BRL	440		ug/Kg-dry	208413	1	06/12/2015 17:49	YH
Bis(2-chloroethoxy)methane	BRL	440		ug/Kg-dry	208413	1	06/12/2015 17:49	YH
Bis(2-chloroethyl)ether	BRL	440		ug/Kg-dry	208413	1	06/12/2015 17:49	YH
Bis(2-chloroisopropyl)ether	BRL	440		ug/Kg-dry	208413	1	06/12/2015 17:49	YH

**Qualifiers:**

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- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15159-SB-8-2
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/8/2015 2:45:00 PM
<b>Lab ID:</b> 1506C34-020	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL-SEMIVOLATILE ORGANICS SW8270D</b>		<b>(SW3550C)</b>						
Bis(2-ethylhexyl)phthalate	BRL	440		ug/Kg-dry	208413	1	06/12/2015 17:49	YH
Butyl benzyl phthalate	BRL	440		ug/Kg-dry	208413	1	06/12/2015 17:49	YH
Caprolactam	BRL	440		ug/Kg-dry	208413	1	06/12/2015 17:49	YH
Carbazole	BRL	440		ug/Kg-dry	208413	1	06/12/2015 17:49	YH
Chrysene	BRL	440		ug/Kg-dry	208413	1	06/12/2015 17:49	YH
Di-n-butyl phthalate	BRL	440		ug/Kg-dry	208413	1	06/12/2015 17:49	YH
Di-n-octyl phthalate	BRL	440		ug/Kg-dry	208413	1	06/12/2015 17:49	YH
Dibenz(a,h)anthracene	BRL	440		ug/Kg-dry	208413	1	06/12/2015 17:49	YH
Dibenzofuran	BRL	440		ug/Kg-dry	208413	1	06/12/2015 17:49	YH
Diethyl phthalate	BRL	440		ug/Kg-dry	208413	1	06/12/2015 17:49	YH
Dimethyl phthalate	BRL	440		ug/Kg-dry	208413	1	06/12/2015 17:49	YH
Fluoranthene	BRL	440		ug/Kg-dry	208413	1	06/12/2015 17:49	YH
Fluorene	BRL	440		ug/Kg-dry	208413	1	06/12/2015 17:49	YH
Hexachlorobenzene	BRL	440		ug/Kg-dry	208413	1	06/12/2015 17:49	YH
Hexachlorobutadiene	BRL	440		ug/Kg-dry	208413	1	06/12/2015 17:49	YH
Hexachlorocyclopentadiene	BRL	890		ug/Kg-dry	208413	1	06/12/2015 17:49	YH
Hexachloroethane	BRL	440		ug/Kg-dry	208413	1	06/12/2015 17:49	YH
Indeno(1,2,3-cd)pyrene	BRL	440		ug/Kg-dry	208413	1	06/12/2015 17:49	YH
Isophorone	BRL	440		ug/Kg-dry	208413	1	06/12/2015 17:49	YH
N-Nitrosodi-n-propylamine	BRL	440		ug/Kg-dry	208413	1	06/12/2015 17:49	YH
N-Nitrosodiphenylamine	BRL	440		ug/Kg-dry	208413	1	06/12/2015 17:49	YH
Naphthalene	BRL	440		ug/Kg-dry	208413	1	06/12/2015 17:49	YH
Nitrobenzene	BRL	440		ug/Kg-dry	208413	1	06/12/2015 17:49	YH
Pentachlorophenol	BRL	2300		ug/Kg-dry	208413	1	06/12/2015 17:49	YH
Phenanthrene	BRL	440		ug/Kg-dry	208413	1	06/12/2015 17:49	YH
Phenol	BRL	440		ug/Kg-dry	208413	1	06/12/2015 17:49	YH
Pyrene	BRL	440		ug/Kg-dry	208413	1	06/12/2015 17:49	YH
Surr: 2,4,6-Tribromophenol	88.1	41-128		%REC	208413	1	06/12/2015 17:49	YH
Surr: 2-Fluorobiphenyl	82.3	47-120		%REC	208413	1	06/12/2015 17:49	YH
Surr: 2-Fluorophenol	77	38.3-120		%REC	208413	1	06/12/2015 17:49	YH
Surr: 4-Terphenyl-d14	86.2	51.4-125		%REC	208413	1	06/12/2015 17:49	YH
Surr: Nitrobenzene-d5	71.5	40.1-120		%REC	208413	1	06/12/2015 17:49	YH
Surr: Phenol-d5	95.3	40.3-120		%REC	208413	1	06/12/2015 17:49	YH
<b>TCL VOLATILE ORGANICS SW8260B</b>		<b>(SW5035)</b>						
1,1,1-Trichloroethane	BRL	2.8		ug/Kg-dry	208832	1	06/16/2015 14:40	CG
1,1,2,2-Tetrachloroethane	BRL	2.8		ug/Kg-dry	208832	1	06/16/2015 14:40	CG
1,1,2-Trichloroethane	BRL	2.8		ug/Kg-dry	208832	1	06/16/2015 14:40	CG
1,1-Dichloroethane	BRL	2.8		ug/Kg-dry	208832	1	06/16/2015 14:40	CG
1,1-Dichloroethene	BRL	2.8		ug/Kg-dry	208832	1	06/16/2015 14:40	CG
1,2,4-Trichlorobenzene	BRL	2.8		ug/Kg-dry	208832	1	06/16/2015 14:40	CG

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Analytical Environmental Services, Inc

Date: 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15159-SB-8-2
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/8/2015 2:45:00 PM
<b>Lab ID:</b> 1506C34-020	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,2-Dibromo-3-chloropropane	BRL	2.8		ug/Kg-dry	208832	1	06/16/2015 14:40	CG
1,2-Dibromoethane	BRL	2.8		ug/Kg-dry	208832	1	06/16/2015 14:40	CG
1,2-Dichlorobenzene	BRL	2.8		ug/Kg-dry	208832	1	06/16/2015 14:40	CG
1,2-Dichloroethane	BRL	2.8		ug/Kg-dry	208832	1	06/16/2015 14:40	CG
1,2-Dichloropropane	BRL	2.8		ug/Kg-dry	208832	1	06/16/2015 14:40	CG
1,3-Dichlorobenzene	BRL	2.8		ug/Kg-dry	208832	1	06/16/2015 14:40	CG
1,4-Dichlorobenzene	BRL	2.8		ug/Kg-dry	208832	1	06/16/2015 14:40	CG
2-Butanone	BRL	28		ug/Kg-dry	208832	1	06/16/2015 14:40	CG
2-Hexanone	BRL	5.6		ug/Kg-dry	208832	1	06/16/2015 14:40	CG
4-Methyl-2-pentanone	6.7	5.6		ug/Kg-dry	208832	1	06/16/2015 14:40	CG
Acetone	100	56		ug/Kg-dry	208832	1	06/16/2015 14:40	CG
Benzene	BRL	2.8		ug/Kg-dry	208832	1	06/16/2015 14:40	CG
Bromodichloromethane	BRL	2.8		ug/Kg-dry	208832	1	06/16/2015 14:40	CG
Bromoform	BRL	2.8		ug/Kg-dry	208832	1	06/16/2015 14:40	CG
Bromomethane	BRL	2.8		ug/Kg-dry	208832	1	06/16/2015 14:40	CG
Carbon disulfide	BRL	5.6		ug/Kg-dry	208832	1	06/16/2015 14:40	CG
Carbon tetrachloride	BRL	2.8		ug/Kg-dry	208832	1	06/16/2015 14:40	CG
Chlorobenzene	BRL	2.8		ug/Kg-dry	208832	1	06/16/2015 14:40	CG
Chloroethane	BRL	5.6		ug/Kg-dry	208832	1	06/16/2015 14:40	CG
Chloroform	BRL	2.8		ug/Kg-dry	208832	1	06/16/2015 14:40	CG
Chloromethane	BRL	5.6		ug/Kg-dry	208832	1	06/16/2015 14:40	CG
cis-1,2-Dichloroethene	BRL	2.8		ug/Kg-dry	208832	1	06/16/2015 14:40	CG
cis-1,3-Dichloropropene	BRL	2.8		ug/Kg-dry	208832	1	06/16/2015 14:40	CG
Cyclohexane	BRL	2.8		ug/Kg-dry	208832	1	06/16/2015 14:40	CG
Dibromochloromethane	BRL	2.8		ug/Kg-dry	208832	1	06/16/2015 14:40	CG
Dichlorodifluoromethane	BRL	5.6		ug/Kg-dry	208832	1	06/16/2015 14:40	CG
Ethylbenzene	11	2.8		ug/Kg-dry	208832	1	06/16/2015 14:40	CG
Freon-113	BRL	5.6		ug/Kg-dry	208832	1	06/16/2015 14:40	CG
Isopropylbenzene	BRL	2.8		ug/Kg-dry	208832	1	06/16/2015 14:40	CG
m,p-Xylene	BRL	2.8		ug/Kg-dry	208832	1	06/16/2015 14:40	CG
Methyl acetate	BRL	2.8		ug/Kg-dry	208832	1	06/16/2015 14:40	CG
Methyl tert-butyl ether	BRL	2.8		ug/Kg-dry	208832	1	06/16/2015 14:40	CG
Methylcyclohexane	BRL	2.8		ug/Kg-dry	208832	1	06/16/2015 14:40	CG
Methylene chloride	BRL	11		ug/Kg-dry	208832	1	06/16/2015 14:40	CG
o-Xylene	BRL	2.8		ug/Kg-dry	208832	1	06/16/2015 14:40	CG
Styrene	BRL	2.8		ug/Kg-dry	208832	1	06/16/2015 14:40	CG
Tetrachloroethene	BRL	2.8		ug/Kg-dry	208832	1	06/16/2015 14:40	CG
Toluene	12	2.8		ug/Kg-dry	208832	1	06/16/2015 14:40	CG
trans-1,2-Dichloroethene	BRL	2.8		ug/Kg-dry	208832	1	06/16/2015 14:40	CG
trans-1,3-Dichloropropene	BRL	2.8		ug/Kg-dry	208832	1	06/16/2015 14:40	CG
Trichloroethene	BRL	2.8		ug/Kg-dry	208832	1	06/16/2015 14:40	CG

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**Analytical Environmental Services, Inc**

**Date:** 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15159-SB-8-2
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/8/2015 2:45:00 PM
<b>Lab ID:</b> 1506C34-020	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>			<b>(SW5035)</b>					
Trichlorofluoromethane	BRL	2.8		ug/Kg-dry	208832	1	06/16/2015 14:40	CG
Vinyl chloride	BRL	5.6		ug/Kg-dry	208832	1	06/16/2015 14:40	CG
Surr: 4-Bromofluorobenzene	87.1	70-128		%REC	208832	1	06/16/2015 14:40	CG
Surr: Dibromofluoromethane	96.4	78.2-128		%REC	208832	1	06/16/2015 14:40	CG
Surr: Toluene-d8	101	76.5-116		%REC	208832	1	06/16/2015 14:40	CG
<b>METALS, TOTAL SW6010C</b>			<b>(SW3050B)</b>					
Arsenic	BRL	6.66		mg/Kg-dry	208707	1	06/13/2015 02:47	TA
Barium	37.8	6.66		mg/Kg-dry	208707	1	06/13/2015 02:47	TA
Cadmium	BRL	3.33		mg/Kg-dry	208707	1	06/13/2015 02:47	TA
Chromium	7.14	3.33		mg/Kg-dry	208707	1	06/13/2015 02:47	TA
Lead	12.5	6.66		mg/Kg-dry	208707	1	06/13/2015 02:47	TA
Nickel	BRL	6.66		mg/Kg-dry	208707	1	06/13/2015 02:47	TA
Phosphorus	66.6	33.3		mg/Kg-dry	208707	1	06/15/2015 17:10	IO
Selenium	BRL	6.66		mg/Kg-dry	208707	1	06/13/2015 02:47	TA
Silver	BRL	3.33		mg/Kg-dry	208707	1	06/13/2015 02:47	TA
Zinc	BRL	6.66		mg/Kg-dry	208707	1	06/13/2015 02:47	TA
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	25.6	0		wt%	R293980	1	06/16/2015 10:00	PF

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**Analytical Environmental Services, Inc**

**Date:** 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15160-SB-9-2
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/9/2015 8:14:00 AM
<b>Lab ID:</b> 1506C34-021	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TOTAL MERCURY SW7471B</b>					<b>(SW7471B)</b>			
Mercury	BRL	0.122		mg/Kg-dry	208773	1	06/15/2015 16:39	TA
<b>TCL-SEMIVOLATILE ORGANICS SW8270D</b>					<b>(SW3550C)</b>			
1,1'-Biphenyl	BRL	440		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
2,4,5-Trichlorophenol	BRL	2300		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
2,4,6-Trichlorophenol	BRL	440		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
2,4-Dichlorophenol	BRL	440		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
2,4-Dimethylphenol	BRL	440		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
2,4-Dinitrophenol	BRL	2300		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
2,4-Dinitrotoluene	BRL	440		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
2,6-Dinitrotoluene	BRL	440		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
2-Chloronaphthalene	BRL	440		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
2-Chlorophenol	BRL	440		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
2-Methylnaphthalene	BRL	440		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
2-Methylphenol	BRL	440		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
2-Nitroaniline	BRL	2300		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
2-Nitrophenol	BRL	440		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
3,3'-Dichlorobenzidine	BRL	900		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
3-Nitroaniline	BRL	2300		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
4,6-Dinitro-2-methylphenol	BRL	2300		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
4-Bromophenyl phenyl ether	BRL	440		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
4-Chloro-3-methylphenol	BRL	440		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
4-Chloroaniline	BRL	440		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
4-Chlorophenyl phenyl ether	BRL	440		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
4-Methylphenol	920	440		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
4-Nitroaniline	BRL	2300		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
4-Nitrophenol	BRL	2300		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
Acenaphthene	BRL	440		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
Acenaphthylene	BRL	440		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
Acetophenone	BRL	440		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
Anthracene	BRL	440		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
Atrazine	BRL	440		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
Benz(a)anthracene	BRL	440		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
Benzaldehyde	BRL	440		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
Benzo(a)pyrene	BRL	440		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
Benzo(b)fluoranthene	BRL	440		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
Benzo(g,h,i)perylene	BRL	440		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
Benzo(k)fluoranthene	BRL	440		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
Bis(2-chloroethoxy)methane	BRL	440		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
Bis(2-chloroethyl)ether	BRL	440		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
Bis(2-chloroisopropyl)ether	BRL	440		ug/Kg-dry	208413	1	06/12/2015 18:15	YH

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**Analytical Environmental Services, Inc**

**Date:** 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15160-SB-9-2
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/9/2015 8:14:00 AM
<b>Lab ID:</b> 1506C34-021	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL-SEMIVOLATILE ORGANICS SW8270D</b>		<b>(SW3550C)</b>						
Bis(2-ethylhexyl)phthalate	BRL	440		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
Butyl benzyl phthalate	BRL	440		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
Caprolactam	BRL	440		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
Carbazole	BRL	440		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
Chrysene	BRL	440		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
Di-n-butyl phthalate	BRL	440		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
Di-n-octyl phthalate	BRL	440		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
Dibenz(a,h)anthracene	BRL	440		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
Dibenzofuran	BRL	440		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
Diethyl phthalate	BRL	440		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
Dimethyl phthalate	BRL	440		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
Fluoranthene	BRL	440		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
Fluorene	BRL	440		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
Hexachlorobenzene	BRL	440		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
Hexachlorobutadiene	BRL	440		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
Hexachlorocyclopentadiene	BRL	880		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
Hexachloroethane	BRL	440		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
Indeno(1,2,3-cd)pyrene	BRL	440		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
Isophorone	BRL	440		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
N-Nitrosodi-n-propylamine	BRL	440		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
N-Nitrosodiphenylamine	BRL	440		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
Naphthalene	BRL	440		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
Nitrobenzene	BRL	440		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
Pentachlorophenol	BRL	2300		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
Phenanthrene	BRL	440		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
Phenol	BRL	440		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
Pyrene	BRL	440		ug/Kg-dry	208413	1	06/12/2015 18:15	YH
Surr: 2,4,6-Tribromophenol	83.7	41-128		%REC	208413	1	06/12/2015 18:15	YH
Surr: 2-Fluorobiphenyl	81.8	47-120		%REC	208413	1	06/12/2015 18:15	YH
Surr: 2-Fluorophenol	74.2	38.3-120		%REC	208413	1	06/12/2015 18:15	YH
Surr: 4-Terphenyl-d14	82.1	51.4-125		%REC	208413	1	06/12/2015 18:15	YH
Surr: Nitrobenzene-d5	74.3	40.1-120		%REC	208413	1	06/12/2015 18:15	YH
Surr: Phenol-d5	92.7	40.3-120		%REC	208413	1	06/12/2015 18:15	YH
<b>TCL VOLATILE ORGANICS SW8260B</b>		<b>(SW5035)</b>						
1,1,1-Trichloroethane	BRL	2.9		ug/Kg-dry	208832	1	06/15/2015 16:23	CG
1,1,2,2-Tetrachloroethane	BRL	2.9		ug/Kg-dry	208832	1	06/15/2015 16:23	CG
1,1,2-Trichloroethane	BRL	2.9		ug/Kg-dry	208832	1	06/15/2015 16:23	CG
1,1-Dichloroethane	BRL	2.9		ug/Kg-dry	208832	1	06/15/2015 16:23	CG
1,1-Dichloroethene	BRL	2.9		ug/Kg-dry	208832	1	06/15/2015 16:23	CG
1,2,4-Trichlorobenzene	BRL	2.9		ug/Kg-dry	208832	1	06/15/2015 16:23	CG

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- Narr See case narrative
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<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15160-SB-9-2
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/9/2015 8:14:00 AM
<b>Lab ID:</b> 1506C34-021	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,2-Dibromo-3-chloropropane	BRL	2.9		ug/Kg-dry	208832	1	06/15/2015 16:23	CG
1,2-Dibromoethane	BRL	2.9		ug/Kg-dry	208832	1	06/15/2015 16:23	CG
1,2-Dichlorobenzene	BRL	2.9		ug/Kg-dry	208832	1	06/15/2015 16:23	CG
1,2-Dichloroethane	BRL	2.9		ug/Kg-dry	208832	1	06/15/2015 16:23	CG
1,2-Dichloropropane	BRL	2.9		ug/Kg-dry	208832	1	06/15/2015 16:23	CG
1,3-Dichlorobenzene	BRL	2.9		ug/Kg-dry	208832	1	06/15/2015 16:23	CG
1,4-Dichlorobenzene	BRL	2.9		ug/Kg-dry	208832	1	06/15/2015 16:23	CG
2-Butanone	220	29		ug/Kg-dry	208832	1	06/15/2015 16:23	CG
2-Hexanone	7.7	5.7		ug/Kg-dry	208832	1	06/15/2015 16:23	CG
4-Methyl-2-pentanone	83	5.7		ug/Kg-dry	208832	1	06/15/2015 16:23	CG
Acetone	11000	3000		ug/Kg-dry	208908	50	06/17/2015 00:48	AR
Benzene	BRL	2.9		ug/Kg-dry	208832	1	06/15/2015 16:23	CG
Bromodichloromethane	BRL	2.9		ug/Kg-dry	208832	1	06/15/2015 16:23	CG
Bromoform	BRL	2.9		ug/Kg-dry	208832	1	06/15/2015 16:23	CG
Bromomethane	BRL	2.9		ug/Kg-dry	208832	1	06/15/2015 16:23	CG
Carbon disulfide	BRL	5.7		ug/Kg-dry	208832	1	06/15/2015 16:23	CG
Carbon tetrachloride	BRL	2.9		ug/Kg-dry	208832	1	06/15/2015 16:23	CG
Chlorobenzene	BRL	2.9		ug/Kg-dry	208832	1	06/15/2015 16:23	CG
Chloroethane	BRL	5.7		ug/Kg-dry	208832	1	06/15/2015 16:23	CG
Chloroform	BRL	2.9		ug/Kg-dry	208832	1	06/15/2015 16:23	CG
Chloromethane	BRL	5.7		ug/Kg-dry	208832	1	06/15/2015 16:23	CG
cis-1,2-Dichloroethene	BRL	2.9		ug/Kg-dry	208832	1	06/15/2015 16:23	CG
cis-1,3-Dichloropropene	BRL	2.9		ug/Kg-dry	208832	1	06/15/2015 16:23	CG
Cyclohexane	BRL	2.9		ug/Kg-dry	208832	1	06/15/2015 16:23	CG
Dibromochloromethane	BRL	2.9		ug/Kg-dry	208832	1	06/15/2015 16:23	CG
Dichlorodifluoromethane	BRL	5.7		ug/Kg-dry	208832	1	06/15/2015 16:23	CG
Ethylbenzene	BRL	2.9		ug/Kg-dry	208832	1	06/15/2015 16:23	CG
Freon-113	BRL	5.7		ug/Kg-dry	208832	1	06/15/2015 16:23	CG
Isopropylbenzene	BRL	2.9		ug/Kg-dry	208832	1	06/15/2015 16:23	CG
m,p-Xylene	BRL	2.9		ug/Kg-dry	208832	1	06/15/2015 16:23	CG
Methyl acetate	BRL	2.9		ug/Kg-dry	208832	1	06/15/2015 16:23	CG
Methyl tert-butyl ether	BRL	2.9		ug/Kg-dry	208832	1	06/15/2015 16:23	CG
Methylcyclohexane	BRL	2.9		ug/Kg-dry	208832	1	06/15/2015 16:23	CG
Methylene chloride	BRL	11		ug/Kg-dry	208832	1	06/15/2015 16:23	CG
o-Xylene	BRL	2.9		ug/Kg-dry	208832	1	06/15/2015 16:23	CG
Styrene	BRL	2.9		ug/Kg-dry	208832	1	06/15/2015 16:23	CG
Tetrachloroethene	BRL	2.9		ug/Kg-dry	208832	1	06/15/2015 16:23	CG
Toluene	34	2.9		ug/Kg-dry	208832	1	06/15/2015 16:23	CG
trans-1,2-Dichloroethene	BRL	2.9		ug/Kg-dry	208832	1	06/15/2015 16:23	CG
trans-1,3-Dichloropropene	BRL	2.9		ug/Kg-dry	208832	1	06/15/2015 16:23	CG
Trichloroethene	BRL	2.9		ug/Kg-dry	208832	1	06/15/2015 16:23	CG

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**Analytical Environmental Services, Inc**

**Date:** 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15160-SB-9-2
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/9/2015 8:14:00 AM
<b>Lab ID:</b> 1506C34-021	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>		<b>(SW5035)</b>						
Trichlorofluoromethane	BRL	2.9		ug/Kg-dry	208832	1	06/15/2015 16:23	CG
Vinyl chloride	BRL	5.7		ug/Kg-dry	208832	1	06/15/2015 16:23	CG
Surr: 4-Bromofluorobenzene	86.5	70-128		%REC	208908	50	06/17/2015 00:48	AR
Surr: 4-Bromofluorobenzene	109	70-128		%REC	208832	1	06/15/2015 16:23	CG
Surr: Dibromofluoromethane	96.9	78.2-128		%REC	208908	50	06/17/2015 00:48	AR
Surr: Dibromofluoromethane	114	78.2-128		%REC	208832	1	06/15/2015 16:23	CG
Surr: Toluene-d8	98.9	76.5-116		%REC	208908	50	06/17/2015 00:48	AR
Surr: Toluene-d8	107	76.5-116		%REC	208832	1	06/15/2015 16:23	CG
<b>METALS, TOTAL SW6010C</b>		<b>(SW3050B)</b>						
Arsenic	BRL	6.64		mg/Kg-dry	208707	1	06/13/2015 02:50	TA
Barium	17.7	6.64		mg/Kg-dry	208707	1	06/13/2015 02:50	TA
Cadmium	BRL	3.32		mg/Kg-dry	208707	1	06/13/2015 02:50	TA
Chromium	3.96	3.32		mg/Kg-dry	208707	1	06/13/2015 02:50	TA
Lead	BRL	6.64		mg/Kg-dry	208707	1	06/13/2015 02:50	TA
Nickel	BRL	6.64		mg/Kg-dry	208707	1	06/13/2015 02:50	TA
Phosphorus	34.6	33.2		mg/Kg-dry	208707	1	06/15/2015 17:12	IO
Selenium	BRL	6.64		mg/Kg-dry	208707	1	06/13/2015 02:50	TA
Silver	BRL	3.32		mg/Kg-dry	208707	1	06/13/2015 02:50	TA
Zinc	7.32	6.64		mg/Kg-dry	208707	1	06/13/2015 02:50	TA
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	25.2	0		wt%	R293980	1	06/16/2015 10:00	PF

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**Date:** 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15160-SB-10-2
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/9/2015 8:23:00 AM
<b>Lab ID:</b> 1506C34-022	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TOTAL MERCURY SW7471B</b>					<b>(SW7471B)</b>			
Mercury	BRL	0.106		mg/Kg-dry	208773	1	06/15/2015 16:42	TA
<b>TCL-SEMIVOLATILE ORGANICS SW8270D</b>					<b>(SW3550C)</b>			
1,1'-Biphenyl	BRL	380		ug/Kg-dry	208413	1	06/12/2015 18:40	YH
2,4,5-Trichlorophenol	BRL	2000		ug/Kg-dry	208413	1	06/12/2015 18:40	YH
2,4,6-Trichlorophenol	BRL	380		ug/Kg-dry	208413	1	06/12/2015 18:40	YH
2,4-Dichlorophenol	BRL	380		ug/Kg-dry	208413	1	06/12/2015 18:40	YH
2,4-Dimethylphenol	BRL	380		ug/Kg-dry	208413	1	06/12/2015 18:40	YH
2,4-Dinitrophenol	BRL	2000		ug/Kg-dry	208413	1	06/12/2015 18:40	YH
2,4-Dinitrotoluene	BRL	380		ug/Kg-dry	208413	1	06/12/2015 18:40	YH
2,6-Dinitrotoluene	BRL	380		ug/Kg-dry	208413	1	06/12/2015 18:40	YH
2-Chloronaphthalene	BRL	380		ug/Kg-dry	208413	1	06/12/2015 18:40	YH
2-Chlorophenol	BRL	380		ug/Kg-dry	208413	1	06/12/2015 18:40	YH
2-Methylnaphthalene	BRL	380		ug/Kg-dry	208413	1	06/12/2015 18:40	YH
2-Methylphenol	BRL	380		ug/Kg-dry	208413	1	06/12/2015 18:40	YH
2-Nitroaniline	BRL	2000		ug/Kg-dry	208413	1	06/12/2015 18:40	YH
2-Nitrophenol	BRL	380		ug/Kg-dry	208413	1	06/12/2015 18:40	YH
3,3'-Dichlorobenzidine	BRL	780		ug/Kg-dry	208413	1	06/12/2015 18:40	YH
3-Nitroaniline	BRL	2000		ug/Kg-dry	208413	1	06/12/2015 18:40	YH
4,6-Dinitro-2-methylphenol	BRL	2000		ug/Kg-dry	208413	1	06/12/2015 18:40	YH
4-Bromophenyl phenyl ether	BRL	380		ug/Kg-dry	208413	1	06/12/2015 18:40	YH
4-Chloro-3-methylphenol	BRL	380		ug/Kg-dry	208413	1	06/12/2015 18:40	YH
4-Chloroaniline	BRL	380		ug/Kg-dry	208413	1	06/12/2015 18:40	YH
4-Chlorophenyl phenyl ether	BRL	380		ug/Kg-dry	208413	1	06/12/2015 18:40	YH
4-Methylphenol	BRL	380		ug/Kg-dry	208413	1	06/12/2015 18:40	YH
4-Nitroaniline	BRL	2000		ug/Kg-dry	208413	1	06/12/2015 18:40	YH
4-Nitrophenol	BRL	2000		ug/Kg-dry	208413	1	06/12/2015 18:40	YH
Acenaphthene	BRL	380		ug/Kg-dry	208413	1	06/12/2015 18:40	YH
Acenaphthylene	BRL	380		ug/Kg-dry	208413	1	06/12/2015 18:40	YH
Acetophenone	BRL	380		ug/Kg-dry	208413	1	06/12/2015 18:40	YH
Anthracene	BRL	380		ug/Kg-dry	208413	1	06/12/2015 18:40	YH
Atrazine	BRL	380		ug/Kg-dry	208413	1	06/12/2015 18:40	YH
Benz(a)anthracene	BRL	380		ug/Kg-dry	208413	1	06/12/2015 18:40	YH
Benzaldehyde	BRL	380		ug/Kg-dry	208413	1	06/12/2015 18:40	YH
Benzo(a)pyrene	BRL	380		ug/Kg-dry	208413	1	06/12/2015 18:40	YH
Benzo(b)fluoranthene	BRL	380		ug/Kg-dry	208413	1	06/12/2015 18:40	YH
Benzo(g,h,i)perylene	BRL	380		ug/Kg-dry	208413	1	06/12/2015 18:40	YH
Benzo(k)fluoranthene	BRL	380		ug/Kg-dry	208413	1	06/12/2015 18:40	YH
Bis(2-chloroethoxy)methane	BRL	380		ug/Kg-dry	208413	1	06/12/2015 18:40	YH
Bis(2-chloroethyl)ether	BRL	380		ug/Kg-dry	208413	1	06/12/2015 18:40	YH
Bis(2-chloroisopropyl)ether	BRL	380		ug/Kg-dry	208413	1	06/12/2015 18:40	YH

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<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/9/2015 8:23:00 AM
<b>Lab ID:</b> 1506C34-022	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL-SEMIVOLATILE ORGANICS SW8270D</b>		<b>(SW3550C)</b>						
Bis(2-ethylhexyl)phthalate	BRL	380		ug/Kg-dry	208413	1	06/12/2015 18:40	YH
Butyl benzyl phthalate	BRL	380		ug/Kg-dry	208413	1	06/12/2015 18:40	YH
Caprolactam	BRL	380		ug/Kg-dry	208413	1	06/12/2015 18:40	YH
Carbazole	BRL	380		ug/Kg-dry	208413	1	06/12/2015 18:40	YH
Chrysene	BRL	380		ug/Kg-dry	208413	1	06/12/2015 18:40	YH
Di-n-butyl phthalate	BRL	380		ug/Kg-dry	208413	1	06/12/2015 18:40	YH
Di-n-octyl phthalate	BRL	380		ug/Kg-dry	208413	1	06/12/2015 18:40	YH
Dibenz(a,h)anthracene	BRL	380		ug/Kg-dry	208413	1	06/12/2015 18:40	YH
Dibenzofuran	BRL	380		ug/Kg-dry	208413	1	06/12/2015 18:40	YH
Diethyl phthalate	BRL	380		ug/Kg-dry	208413	1	06/12/2015 18:40	YH
Dimethyl phthalate	BRL	380		ug/Kg-dry	208413	1	06/12/2015 18:40	YH
Fluoranthene	BRL	380		ug/Kg-dry	208413	1	06/12/2015 18:40	YH
Fluorene	BRL	380		ug/Kg-dry	208413	1	06/12/2015 18:40	YH
Hexachlorobenzene	BRL	380		ug/Kg-dry	208413	1	06/12/2015 18:40	YH
Hexachlorobutadiene	BRL	380		ug/Kg-dry	208413	1	06/12/2015 18:40	YH
Hexachlorocyclopentadiene	BRL	770		ug/Kg-dry	208413	1	06/12/2015 18:40	YH
Hexachloroethane	BRL	380		ug/Kg-dry	208413	1	06/12/2015 18:40	YH
Indeno(1,2,3-cd)pyrene	BRL	380		ug/Kg-dry	208413	1	06/12/2015 18:40	YH
Isophorone	BRL	380		ug/Kg-dry	208413	1	06/12/2015 18:40	YH
N-Nitrosodi-n-propylamine	BRL	380		ug/Kg-dry	208413	1	06/12/2015 18:40	YH
N-Nitrosodiphenylamine	BRL	380		ug/Kg-dry	208413	1	06/12/2015 18:40	YH
Naphthalene	BRL	380		ug/Kg-dry	208413	1	06/12/2015 18:40	YH
Nitrobenzene	BRL	380		ug/Kg-dry	208413	1	06/12/2015 18:40	YH
Pentachlorophenol	BRL	2000		ug/Kg-dry	208413	1	06/12/2015 18:40	YH
Phenanthrene	BRL	380		ug/Kg-dry	208413	1	06/12/2015 18:40	YH
Phenol	BRL	380		ug/Kg-dry	208413	1	06/12/2015 18:40	YH
Pyrene	BRL	380		ug/Kg-dry	208413	1	06/12/2015 18:40	YH
Surr: 2,4,6-Tribromophenol	83.6	41-128		%REC	208413	1	06/12/2015 18:40	YH
Surr: 2-Fluorobiphenyl	76.6	47-120		%REC	208413	1	06/12/2015 18:40	YH
Surr: 2-Fluorophenol	73	38.3-120		%REC	208413	1	06/12/2015 18:40	YH
Surr: 4-Terphenyl-d14	86	51.4-125		%REC	208413	1	06/12/2015 18:40	YH
Surr: Nitrobenzene-d5	64	40.1-120		%REC	208413	1	06/12/2015 18:40	YH
Surr: Phenol-d5	85.9	40.3-120		%REC	208413	1	06/12/2015 18:40	YH
<b>TCL VOLATILE ORGANICS SW8260B</b>		<b>(SW5035)</b>						
1,1,1-Trichloroethane	BRL	2.6		ug/Kg-dry	208832	1	06/16/2015 16:19	CG
1,1,2,2-Tetrachloroethane	BRL	2.6		ug/Kg-dry	208832	1	06/16/2015 16:19	CG
1,1,2-Trichloroethane	BRL	2.6		ug/Kg-dry	208832	1	06/16/2015 16:19	CG
1,1-Dichloroethane	BRL	2.6		ug/Kg-dry	208832	1	06/16/2015 16:19	CG
1,1-Dichloroethene	BRL	2.6		ug/Kg-dry	208832	1	06/16/2015 16:19	CG
1,2,4-Trichlorobenzene	BRL	2.6		ug/Kg-dry	208832	1	06/16/2015 16:19	CG

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<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/9/2015 8:23:00 AM
<b>Lab ID:</b> 1506C34-022	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,2-Dibromo-3-chloropropane	BRL	2.6		ug/Kg-dry	208832	1	06/16/2015 16:19	CG
1,2-Dibromoethane	BRL	2.6		ug/Kg-dry	208832	1	06/16/2015 16:19	CG
1,2-Dichlorobenzene	BRL	2.6		ug/Kg-dry	208832	1	06/16/2015 16:19	CG
1,2-Dichloroethane	BRL	2.6		ug/Kg-dry	208832	1	06/16/2015 16:19	CG
1,2-Dichloropropane	BRL	2.6		ug/Kg-dry	208832	1	06/16/2015 16:19	CG
1,3-Dichlorobenzene	BRL	2.6		ug/Kg-dry	208832	1	06/16/2015 16:19	CG
1,4-Dichlorobenzene	BRL	2.6		ug/Kg-dry	208832	1	06/16/2015 16:19	CG
2-Butanone	BRL	26		ug/Kg-dry	208832	1	06/16/2015 16:19	CG
2-Hexanone	BRL	5.2		ug/Kg-dry	208832	1	06/16/2015 16:19	CG
4-Methyl-2-pentanone	BRL	5.2		ug/Kg-dry	208832	1	06/16/2015 16:19	CG
Acetone	BRL	52		ug/Kg-dry	208832	1	06/16/2015 16:19	CG
Benzene	BRL	2.6		ug/Kg-dry	208832	1	06/16/2015 16:19	CG
Bromodichloromethane	BRL	2.6		ug/Kg-dry	208832	1	06/16/2015 16:19	CG
Bromoform	BRL	2.6		ug/Kg-dry	208832	1	06/16/2015 16:19	CG
Bromomethane	BRL	2.6		ug/Kg-dry	208832	1	06/16/2015 16:19	CG
Carbon disulfide	BRL	5.2		ug/Kg-dry	208832	1	06/16/2015 16:19	CG
Carbon tetrachloride	BRL	2.6		ug/Kg-dry	208832	1	06/16/2015 16:19	CG
Chlorobenzene	BRL	2.6		ug/Kg-dry	208832	1	06/16/2015 16:19	CG
Chloroethane	BRL	5.2		ug/Kg-dry	208832	1	06/16/2015 16:19	CG
Chloroform	BRL	2.6		ug/Kg-dry	208832	1	06/16/2015 16:19	CG
Chloromethane	BRL	5.2		ug/Kg-dry	208832	1	06/16/2015 16:19	CG
cis-1,2-Dichloroethene	BRL	2.6		ug/Kg-dry	208832	1	06/16/2015 16:19	CG
cis-1,3-Dichloropropene	BRL	2.6		ug/Kg-dry	208832	1	06/16/2015 16:19	CG
Cyclohexane	BRL	2.6		ug/Kg-dry	208832	1	06/16/2015 16:19	CG
Dibromochloromethane	BRL	2.6		ug/Kg-dry	208832	1	06/16/2015 16:19	CG
Dichlorodifluoromethane	BRL	5.2		ug/Kg-dry	208832	1	06/16/2015 16:19	CG
Ethylbenzene	BRL	2.6		ug/Kg-dry	208832	1	06/16/2015 16:19	CG
Freon-113	BRL	5.2		ug/Kg-dry	208832	1	06/16/2015 16:19	CG
Isopropylbenzene	BRL	2.6		ug/Kg-dry	208832	1	06/16/2015 16:19	CG
m,p-Xylene	BRL	2.6		ug/Kg-dry	208832	1	06/16/2015 16:19	CG
Methyl acetate	BRL	2.6		ug/Kg-dry	208832	1	06/16/2015 16:19	CG
Methyl tert-butyl ether	BRL	2.6		ug/Kg-dry	208832	1	06/16/2015 16:19	CG
Methylcyclohexane	BRL	2.6		ug/Kg-dry	208832	1	06/16/2015 16:19	CG
Methylene chloride	BRL	10		ug/Kg-dry	208832	1	06/16/2015 16:19	CG
o-Xylene	BRL	2.6		ug/Kg-dry	208832	1	06/16/2015 16:19	CG
Styrene	BRL	2.6		ug/Kg-dry	208832	1	06/16/2015 16:19	CG
Tetrachloroethene	BRL	2.6		ug/Kg-dry	208832	1	06/16/2015 16:19	CG
Toluene	BRL	2.6		ug/Kg-dry	208832	1	06/16/2015 16:19	CG
trans-1,2-Dichloroethene	BRL	2.6		ug/Kg-dry	208832	1	06/16/2015 16:19	CG
trans-1,3-Dichloropropene	BRL	2.6		ug/Kg-dry	208832	1	06/16/2015 16:19	CG
Trichloroethene	BRL	2.6		ug/Kg-dry	208832	1	06/16/2015 16:19	CG

**Qualifiers:**

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- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
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**Analytical Environmental Services, Inc**

**Date:** 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15160-SB-10-2
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/9/2015 8:23:00 AM
<b>Lab ID:</b> 1506C34-022	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>		<b>(SW5035)</b>						
Trichlorofluoromethane	BRL	2.6		ug/Kg-dry	208832	1	06/16/2015 16:19	CG
Vinyl chloride	BRL	5.2		ug/Kg-dry	208832	1	06/16/2015 16:19	CG
Surr: 4-Bromofluorobenzene	86.3	70-128		%REC	208832	1	06/16/2015 16:19	CG
Surr: Dibromofluoromethane	93.6	78.2-128		%REC	208832	1	06/16/2015 16:19	CG
Surr: Toluene-d8	101	76.5-116		%REC	208832	1	06/16/2015 16:19	CG
<b>METALS, TOTAL SW6010C</b>		<b>(SW3050B)</b>						
Arsenic	BRL	5.45		mg/Kg-dry	208707	1	06/13/2015 02:53	TA
Barium	41.8	5.45		mg/Kg-dry	208707	1	06/13/2015 02:53	TA
Cadmium	BRL	2.72		mg/Kg-dry	208707	1	06/13/2015 02:53	TA
Chromium	13.5	2.72		mg/Kg-dry	208707	1	06/13/2015 02:53	TA
Lead	9.91	5.45		mg/Kg-dry	208707	1	06/13/2015 02:53	TA
Nickel	BRL	5.45		mg/Kg-dry	208707	1	06/13/2015 02:53	TA
Phosphorus	38.6	27.2		mg/Kg-dry	208707	1	06/15/2015 17:20	IO
Selenium	BRL	5.45		mg/Kg-dry	208707	1	06/13/2015 02:53	TA
Silver	BRL	2.72		mg/Kg-dry	208707	1	06/13/2015 02:53	TA
Zinc	BRL	5.45		mg/Kg-dry	208707	1	06/13/2015 02:53	TA
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	13.9	0		wt%	R293980	1	06/16/2015 10:00	PF

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Analytical Environmental Services, Inc

Date: 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15160-SB-11-2
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/9/2015 8:07:00 AM
<b>Lab ID:</b> 1506C34-023	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TOTAL MERCURY SW7471B</b>					<b>(SW7471B)</b>			
Mercury	BRL	0.117		mg/Kg-dry	208773	1	06/15/2015 16:44	TA
<b>TCL-SEMIVOLATILE ORGANICS SW8270D</b>					<b>(SW3550C)</b>			
1,1'-Biphenyl	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:06	YH
2,4,5-Trichlorophenol	BRL	2000		ug/Kg-dry	208413	1	06/12/2015 19:06	YH
2,4,6-Trichlorophenol	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:06	YH
2,4-Dichlorophenol	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:06	YH
2,4-Dimethylphenol	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:06	YH
2,4-Dinitrophenol	BRL	2000		ug/Kg-dry	208413	1	06/12/2015 19:06	YH
2,4-Dinitrotoluene	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:06	YH
2,6-Dinitrotoluene	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:06	YH
2-Chloronaphthalene	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:06	YH
2-Chlorophenol	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:06	YH
2-Methylnaphthalene	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:06	YH
2-Methylphenol	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:06	YH
2-Nitroaniline	BRL	2000		ug/Kg-dry	208413	1	06/12/2015 19:06	YH
2-Nitrophenol	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:06	YH
3,3'-Dichlorobenzidine	BRL	810		ug/Kg-dry	208413	1	06/12/2015 19:06	YH
3-Nitroaniline	BRL	2000		ug/Kg-dry	208413	1	06/12/2015 19:06	YH
4,6-Dinitro-2-methylphenol	BRL	2000		ug/Kg-dry	208413	1	06/12/2015 19:06	YH
4-Bromophenyl phenyl ether	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:06	YH
4-Chloro-3-methylphenol	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:06	YH
4-Chloroaniline	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:06	YH
4-Chlorophenyl phenyl ether	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:06	YH
4-Methylphenol	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:06	YH
4-Nitroaniline	BRL	2000		ug/Kg-dry	208413	1	06/12/2015 19:06	YH
4-Nitrophenol	BRL	2000		ug/Kg-dry	208413	1	06/12/2015 19:06	YH
Acenaphthene	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:06	YH
Acenaphthylene	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:06	YH
Acetophenone	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:06	YH
Anthracene	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:06	YH
Atrazine	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:06	YH
Benz(a)anthracene	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:06	YH
Benzaldehyde	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:06	YH
Benzo(a)pyrene	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:06	YH
Benzo(b)fluoranthene	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:06	YH
Benzo(g,h,i)perylene	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:06	YH
Benzo(k)fluoranthene	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:06	YH
Bis(2-chloroethoxy)methane	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:06	YH
Bis(2-chloroethyl)ether	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:06	YH
Bis(2-chloroisopropyl)ether	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:06	YH

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**Analytical Environmental Services, Inc**

**Date:** 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15160-SB-11-2
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/9/2015 8:07:00 AM
<b>Lab ID:</b> 1506C34-023	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL-SEMIVOLATILE ORGANICS SW8270D</b>		<b>(SW3550C)</b>						
Bis(2-ethylhexyl)phthalate	1600	400		ug/Kg-dry	208413	1	06/12/2015 19:06	YH
Butyl benzyl phthalate	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:06	YH
Caprolactam	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:06	YH
Carbazole	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:06	YH
Chrysene	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:06	YH
Di-n-butyl phthalate	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:06	YH
Di-n-octyl phthalate	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:06	YH
Dibenz(a,h)anthracene	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:06	YH
Dibenzofuran	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:06	YH
Diethyl phthalate	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:06	YH
Dimethyl phthalate	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:06	YH
Fluoranthene	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:06	YH
Fluorene	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:06	YH
Hexachlorobenzene	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:06	YH
Hexachlorobutadiene	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:06	YH
Hexachlorocyclopentadiene	BRL	790		ug/Kg-dry	208413	1	06/12/2015 19:06	YH
Hexachloroethane	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:06	YH
Indeno(1,2,3-cd)pyrene	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:06	YH
Isophorone	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:06	YH
N-Nitrosodi-n-propylamine	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:06	YH
N-Nitrosodiphenylamine	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:06	YH
Naphthalene	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:06	YH
Nitrobenzene	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:06	YH
Pentachlorophenol	BRL	2000		ug/Kg-dry	208413	1	06/12/2015 19:06	YH
Phenanthrene	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:06	YH
Phenol	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:06	YH
Pyrene	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:06	YH
Surr: 2,4,6-Tribromophenol	85.2	41-128		%REC	208413	1	06/12/2015 19:06	YH
Surr: 2-Fluorobiphenyl	83.8	47-120		%REC	208413	1	06/12/2015 19:06	YH
Surr: 2-Fluorophenol	78.1	38.3-120		%REC	208413	1	06/12/2015 19:06	YH
Surr: 4-Terphenyl-d14	82.8	51.4-125		%REC	208413	1	06/12/2015 19:06	YH
Surr: Nitrobenzene-d5	73.1	40.1-120		%REC	208413	1	06/12/2015 19:06	YH
Surr: Phenol-d5	96.5	40.3-120		%REC	208413	1	06/12/2015 19:06	YH
<b>TCL VOLATILE ORGANICS SW8260B</b>		<b>(SW5035)</b>						
1,1,1-Trichloroethane	BRL	2.6		ug/Kg-dry	208832	1	06/15/2015 18:46	CG
1,1,2,2-Tetrachloroethane	BRL	2.6		ug/Kg-dry	208832	1	06/15/2015 18:46	CG
1,1,2-Trichloroethane	BRL	2.6		ug/Kg-dry	208832	1	06/15/2015 18:46	CG
1,1-Dichloroethane	BRL	2.6		ug/Kg-dry	208832	1	06/15/2015 18:46	CG
1,1-Dichloroethene	BRL	2.6		ug/Kg-dry	208832	1	06/15/2015 18:46	CG
1,2,4-Trichlorobenzene	BRL	2.6		ug/Kg-dry	208832	1	06/15/2015 18:46	CG

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<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15160-SB-11-2
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/9/2015 8:07:00 AM
<b>Lab ID:</b> 1506C34-023	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,2-Dibromo-3-chloropropane	BRL	2.6		ug/Kg-dry	208832	1	06/15/2015 18:46	CG
1,2-Dibromoethane	BRL	2.6		ug/Kg-dry	208832	1	06/15/2015 18:46	CG
1,2-Dichlorobenzene	BRL	2.6		ug/Kg-dry	208832	1	06/15/2015 18:46	CG
1,2-Dichloroethane	BRL	2.6		ug/Kg-dry	208832	1	06/15/2015 18:46	CG
1,2-Dichloropropane	BRL	2.6		ug/Kg-dry	208832	1	06/15/2015 18:46	CG
1,3-Dichlorobenzene	BRL	2.6		ug/Kg-dry	208832	1	06/15/2015 18:46	CG
1,4-Dichlorobenzene	BRL	2.6		ug/Kg-dry	208832	1	06/15/2015 18:46	CG
2-Butanone	76	26		ug/Kg-dry	208832	1	06/15/2015 18:46	CG
2-Hexanone	9.3	5.1		ug/Kg-dry	208832	1	06/15/2015 18:46	CG
4-Methyl-2-pentanone	23	5.1		ug/Kg-dry	208832	1	06/15/2015 18:46	CG
Acetone	600	490		ug/Kg-dry	208908	50	06/17/2015 01:14	AR
Benzene	BRL	2.6		ug/Kg-dry	208832	1	06/15/2015 18:46	CG
Bromodichloromethane	BRL	2.6		ug/Kg-dry	208832	1	06/15/2015 18:46	CG
Bromoform	BRL	2.6		ug/Kg-dry	208832	1	06/15/2015 18:46	CG
Bromomethane	BRL	2.6		ug/Kg-dry	208832	1	06/15/2015 18:46	CG
Carbon disulfide	BRL	5.1		ug/Kg-dry	208832	1	06/15/2015 18:46	CG
Carbon tetrachloride	BRL	2.6		ug/Kg-dry	208832	1	06/15/2015 18:46	CG
Chlorobenzene	BRL	2.6		ug/Kg-dry	208832	1	06/15/2015 18:46	CG
Chloroethane	BRL	5.1		ug/Kg-dry	208832	1	06/15/2015 18:46	CG
Chloroform	BRL	2.6		ug/Kg-dry	208832	1	06/15/2015 18:46	CG
Chloromethane	BRL	5.1		ug/Kg-dry	208832	1	06/15/2015 18:46	CG
cis-1,2-Dichloroethene	BRL	2.6		ug/Kg-dry	208832	1	06/15/2015 18:46	CG
cis-1,3-Dichloropropene	BRL	2.6		ug/Kg-dry	208832	1	06/15/2015 18:46	CG
Cyclohexane	BRL	2.6		ug/Kg-dry	208832	1	06/15/2015 18:46	CG
Dibromochloromethane	BRL	2.6		ug/Kg-dry	208832	1	06/15/2015 18:46	CG
Dichlorodifluoromethane	BRL	5.1		ug/Kg-dry	208832	1	06/15/2015 18:46	CG
Ethylbenzene	BRL	2.6		ug/Kg-dry	208832	1	06/15/2015 18:46	CG
Freon-113	BRL	5.1		ug/Kg-dry	208832	1	06/15/2015 18:46	CG
Isopropylbenzene	BRL	2.6		ug/Kg-dry	208832	1	06/15/2015 18:46	CG
m,p-Xylene	BRL	2.6		ug/Kg-dry	208832	1	06/15/2015 18:46	CG
Methyl acetate	BRL	2.6		ug/Kg-dry	208832	1	06/15/2015 18:46	CG
Methyl tert-butyl ether	BRL	2.6		ug/Kg-dry	208832	1	06/15/2015 18:46	CG
Methylcyclohexane	BRL	2.6		ug/Kg-dry	208832	1	06/15/2015 18:46	CG
Methylene chloride	BRL	10		ug/Kg-dry	208832	1	06/15/2015 18:46	CG
o-Xylene	BRL	2.6		ug/Kg-dry	208832	1	06/15/2015 18:46	CG
Styrene	BRL	2.6		ug/Kg-dry	208832	1	06/15/2015 18:46	CG
Tetrachloroethene	BRL	2.6		ug/Kg-dry	208832	1	06/15/2015 18:46	CG
Toluene	140	120		ug/Kg-dry	208908	50	06/17/2015 01:14	AR
trans-1,2-Dichloroethene	BRL	2.6		ug/Kg-dry	208832	1	06/15/2015 18:46	CG
trans-1,3-Dichloropropene	BRL	2.6		ug/Kg-dry	208832	1	06/15/2015 18:46	CG
Trichloroethene	BRL	2.6		ug/Kg-dry	208832	1	06/15/2015 18:46	CG

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit



**Analytical Environmental Services, Inc**

**Date:** 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15160-SB-11-2
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/9/2015 8:07:00 AM
<b>Lab ID:</b> 1506C34-023	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>		<b>(SW5035)</b>						
Trichlorofluoromethane	BRL	2.6		ug/Kg-dry	208832	1	06/15/2015 18:46	CG
Vinyl chloride	BRL	5.1		ug/Kg-dry	208832	1	06/15/2015 18:46	CG
Surr: 4-Bromofluorobenzene	85.8	70-128		%REC	208908	50	06/17/2015 01:14	AR
Surr: 4-Bromofluorobenzene	94.6	70-128		%REC	208832	1	06/15/2015 18:46	CG
Surr: Dibromofluoromethane	93.9	78.2-128		%REC	208908	50	06/17/2015 01:14	AR
Surr: Dibromofluoromethane	101	78.2-128		%REC	208832	1	06/15/2015 18:46	CG
Surr: Toluene-d8	98.8	76.5-116		%REC	208908	50	06/17/2015 01:14	AR
Surr: Toluene-d8	97.7	76.5-116		%REC	208832	1	06/15/2015 18:46	CG
<b>METALS, TOTAL SW6010C</b>		<b>(SW3050B)</b>						
Arsenic	BRL	5.55		mg/Kg-dry	208707	1	06/13/2015 02:56	TA
Barium	18.9	5.55		mg/Kg-dry	208707	1	06/13/2015 02:56	TA
Cadmium	BRL	2.78		mg/Kg-dry	208707	1	06/13/2015 02:56	TA
Chromium	2.79	2.78		mg/Kg-dry	208707	1	06/13/2015 02:56	TA
Lead	8.87	5.55		mg/Kg-dry	208707	1	06/13/2015 02:56	TA
Nickel	BRL	5.55		mg/Kg-dry	208707	1	06/13/2015 02:56	TA
Phosphorus	66.2	27.8		mg/Kg-dry	208707	1	06/15/2015 17:23	IO
Selenium	BRL	5.55		mg/Kg-dry	208707	1	06/13/2015 02:56	TA
Silver	BRL	2.78		mg/Kg-dry	208707	1	06/13/2015 02:56	TA
Zinc	5.98	5.55		mg/Kg-dry	208707	1	06/13/2015 02:56	TA
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	17.0	0		wt%	R293980	1	06/16/2015 10:00	PF

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15159-SB-12-2
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/8/2015 1:35:00 PM
<b>Lab ID:</b> 1506C34-024	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TOTAL MERCURY SW7471B</b>								
					<b>(SW7471B)</b>			
Mercury	BRL	0.117		mg/Kg-dry	208773	1	06/15/2015 16:46	TA
<b>TCL-SEMIVOLATILE ORGANICS SW8270D</b>								
					<b>(SW3550C)</b>			
1,1'-Biphenyl	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:32	YH
2,4,5-Trichlorophenol	BRL	2100		ug/Kg-dry	208413	1	06/12/2015 19:32	YH
2,4,6-Trichlorophenol	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:32	YH
2,4-Dichlorophenol	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:32	YH
2,4-Dimethylphenol	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:32	YH
2,4-Dinitrophenol	BRL	2100		ug/Kg-dry	208413	1	06/12/2015 19:32	YH
2,4-Dinitrotoluene	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:32	YH
2,6-Dinitrotoluene	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:32	YH
2-Chloronaphthalene	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:32	YH
2-Chlorophenol	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:32	YH
2-Methylnaphthalene	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:32	YH
2-Methylphenol	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:32	YH
2-Nitroaniline	BRL	2100		ug/Kg-dry	208413	1	06/12/2015 19:32	YH
2-Nitrophenol	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:32	YH
3,3'-Dichlorobenzidine	BRL	810		ug/Kg-dry	208413	1	06/12/2015 19:32	YH
3-Nitroaniline	BRL	2100		ug/Kg-dry	208413	1	06/12/2015 19:32	YH
4,6-Dinitro-2-methylphenol	BRL	2100		ug/Kg-dry	208413	1	06/12/2015 19:32	YH
4-Bromophenyl phenyl ether	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:32	YH
4-Chloro-3-methylphenol	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:32	YH
4-Chloroaniline	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:32	YH
4-Chlorophenyl phenyl ether	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:32	YH
4-Methylphenol	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:32	YH
4-Nitroaniline	BRL	2100		ug/Kg-dry	208413	1	06/12/2015 19:32	YH
4-Nitrophenol	BRL	2100		ug/Kg-dry	208413	1	06/12/2015 19:32	YH
Acenaphthene	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:32	YH
Acenaphthylene	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:32	YH
Acetophenone	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:32	YH
Anthracene	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:32	YH
Atrazine	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:32	YH
Benz(a)anthracene	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:32	YH
Benzaldehyde	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:32	YH
Benzo(a)pyrene	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:32	YH
Benzo(b)fluoranthene	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:32	YH
Benzo(g,h,i)perylene	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:32	YH
Benzo(k)fluoranthene	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:32	YH
Bis(2-chloroethoxy)methane	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:32	YH
Bis(2-chloroethyl)ether	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:32	YH
Bis(2-chloroisopropyl)ether	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:32	YH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15159-SB-12-2
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/8/2015 1:35:00 PM
<b>Lab ID:</b> 1506C34-024	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL-SEMIVOLATILE ORGANICS SW8270D</b>		<b>(SW3550C)</b>						
Bis(2-ethylhexyl)phthalate	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:32	YH
Butyl benzyl phthalate	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:32	YH
Caprolactam	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:32	YH
Carbazole	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:32	YH
Chrysene	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:32	YH
Di-n-butyl phthalate	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:32	YH
Di-n-octyl phthalate	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:32	YH
Dibenz(a,h)anthracene	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:32	YH
Dibenzofuran	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:32	YH
Diethyl phthalate	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:32	YH
Dimethyl phthalate	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:32	YH
Fluoranthene	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:32	YH
Fluorene	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:32	YH
Hexachlorobenzene	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:32	YH
Hexachlorobutadiene	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:32	YH
Hexachlorocyclopentadiene	BRL	800		ug/Kg-dry	208413	1	06/12/2015 19:32	YH
Hexachloroethane	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:32	YH
Indeno(1,2,3-cd)pyrene	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:32	YH
Isophorone	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:32	YH
N-Nitrosodi-n-propylamine	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:32	YH
N-Nitrosodiphenylamine	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:32	YH
Naphthalene	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:32	YH
Nitrobenzene	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:32	YH
Pentachlorophenol	BRL	2100		ug/Kg-dry	208413	1	06/12/2015 19:32	YH
Phenanthrene	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:32	YH
Phenol	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:32	YH
Pyrene	BRL	400		ug/Kg-dry	208413	1	06/12/2015 19:32	YH
Surr: 2,4,6-Tribromophenol	82	41-128		%REC	208413	1	06/12/2015 19:32	YH
Surr: 2-Fluorobiphenyl	78.8	47-120		%REC	208413	1	06/12/2015 19:32	YH
Surr: 2-Fluorophenol	78.7	38.3-120		%REC	208413	1	06/12/2015 19:32	YH
Surr: 4-Terphenyl-d14	84	51.4-125		%REC	208413	1	06/12/2015 19:32	YH
Surr: Nitrobenzene-d5	68.6	40.1-120		%REC	208413	1	06/12/2015 19:32	YH
Surr: Phenol-d5	94.1	40.3-120		%REC	208413	1	06/12/2015 19:32	YH
<b>TCL VOLATILE ORGANICS SW8260B</b>		<b>(SW5035)</b>						
1,1,1-Trichloroethane	BRL	3.0		ug/Kg-dry	208832	1	06/16/2015 13:52	CG
1,1,2,2-Tetrachloroethane	BRL	3.0		ug/Kg-dry	208832	1	06/16/2015 13:52	CG
1,1,2-Trichloroethane	BRL	3.0		ug/Kg-dry	208832	1	06/16/2015 13:52	CG
1,1-Dichloroethane	BRL	3.0		ug/Kg-dry	208832	1	06/16/2015 13:52	CG
1,1-Dichloroethene	BRL	3.0		ug/Kg-dry	208832	1	06/16/2015 13:52	CG
1,2,4-Trichlorobenzene	BRL	3.0		ug/Kg-dry	208832	1	06/16/2015 13:52	CG

**Qualifiers:**

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- BRL Below reporting limit
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- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
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- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15159-SB-12-2
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/8/2015 1:35:00 PM
<b>Lab ID:</b> 1506C34-024	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,2-Dibromo-3-chloropropane	BRL	3.0		ug/Kg-dry	208832	1	06/16/2015 13:52	CG
1,2-Dibromoethane	BRL	3.0		ug/Kg-dry	208832	1	06/16/2015 13:52	CG
1,2-Dichlorobenzene	BRL	3.0		ug/Kg-dry	208832	1	06/16/2015 13:52	CG
1,2-Dichloroethane	BRL	3.0		ug/Kg-dry	208832	1	06/16/2015 13:52	CG
1,2-Dichloropropane	BRL	3.0		ug/Kg-dry	208832	1	06/16/2015 13:52	CG
1,3-Dichlorobenzene	BRL	3.0		ug/Kg-dry	208832	1	06/16/2015 13:52	CG
1,4-Dichlorobenzene	BRL	3.0		ug/Kg-dry	208832	1	06/16/2015 13:52	CG
2-Butanone	BRL	30		ug/Kg-dry	208832	1	06/16/2015 13:52	CG
2-Hexanone	BRL	6.1		ug/Kg-dry	208832	1	06/16/2015 13:52	CG
4-Methyl-2-pentanone	BRL	6.1		ug/Kg-dry	208832	1	06/16/2015 13:52	CG
Acetone	86	61		ug/Kg-dry	208832	1	06/16/2015 13:52	CG
Benzene	BRL	3.0		ug/Kg-dry	208832	1	06/16/2015 13:52	CG
Bromodichloromethane	BRL	3.0		ug/Kg-dry	208832	1	06/16/2015 13:52	CG
Bromoform	BRL	3.0		ug/Kg-dry	208832	1	06/16/2015 13:52	CG
Bromomethane	BRL	3.0		ug/Kg-dry	208832	1	06/16/2015 13:52	CG
Carbon disulfide	BRL	6.1		ug/Kg-dry	208832	1	06/16/2015 13:52	CG
Carbon tetrachloride	BRL	3.0		ug/Kg-dry	208832	1	06/16/2015 13:52	CG
Chlorobenzene	BRL	3.0		ug/Kg-dry	208832	1	06/16/2015 13:52	CG
Chloroethane	BRL	6.1		ug/Kg-dry	208832	1	06/16/2015 13:52	CG
Chloroform	BRL	3.0		ug/Kg-dry	208832	1	06/16/2015 13:52	CG
Chloromethane	BRL	6.1		ug/Kg-dry	208832	1	06/16/2015 13:52	CG
cis-1,2-Dichloroethene	BRL	3.0		ug/Kg-dry	208832	1	06/16/2015 13:52	CG
cis-1,3-Dichloropropene	BRL	3.0		ug/Kg-dry	208832	1	06/16/2015 13:52	CG
Cyclohexane	BRL	3.0		ug/Kg-dry	208832	1	06/16/2015 13:52	CG
Dibromochloromethane	BRL	3.0		ug/Kg-dry	208832	1	06/16/2015 13:52	CG
Dichlorodifluoromethane	BRL	6.1		ug/Kg-dry	208832	1	06/16/2015 13:52	CG
Ethylbenzene	BRL	3.0		ug/Kg-dry	208832	1	06/16/2015 13:52	CG
Freon-113	BRL	6.1		ug/Kg-dry	208832	1	06/16/2015 13:52	CG
Isopropylbenzene	BRL	3.0		ug/Kg-dry	208832	1	06/16/2015 13:52	CG
m,p-Xylene	BRL	3.0		ug/Kg-dry	208832	1	06/16/2015 13:52	CG
Methyl acetate	BRL	3.0		ug/Kg-dry	208832	1	06/16/2015 13:52	CG
Methyl tert-butyl ether	BRL	3.0		ug/Kg-dry	208832	1	06/16/2015 13:52	CG
Methylcyclohexane	BRL	3.0		ug/Kg-dry	208832	1	06/16/2015 13:52	CG
Methylene chloride	BRL	12		ug/Kg-dry	208832	1	06/16/2015 13:52	CG
o-Xylene	BRL	3.0		ug/Kg-dry	208832	1	06/16/2015 13:52	CG
Styrene	BRL	3.0		ug/Kg-dry	208832	1	06/16/2015 13:52	CG
Tetrachloroethene	BRL	3.0		ug/Kg-dry	208832	1	06/16/2015 13:52	CG
Toluene	BRL	3.0		ug/Kg-dry	208832	1	06/16/2015 13:52	CG
trans-1,2-Dichloroethene	BRL	3.0		ug/Kg-dry	208832	1	06/16/2015 13:52	CG
trans-1,3-Dichloropropene	BRL	3.0		ug/Kg-dry	208832	1	06/16/2015 13:52	CG
Trichloroethene	BRL	3.0		ug/Kg-dry	208832	1	06/16/2015 13:52	CG

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15159-SB-12-2
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/8/2015 1:35:00 PM
<b>Lab ID:</b> 1506C34-024	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>			<b>(SW5035)</b>					
Trichlorofluoromethane	BRL	3.0		ug/Kg-dry	208832	1	06/16/2015 13:52	CG
Vinyl chloride	BRL	6.1		ug/Kg-dry	208832	1	06/16/2015 13:52	CG
Surr: 4-Bromofluorobenzene	79	70-128		%REC	208832	1	06/16/2015 13:52	CG
Surr: Dibromofluoromethane	95.7	78.2-128		%REC	208832	1	06/16/2015 13:52	CG
Surr: Toluene-d8	98.4	76.5-116		%REC	208832	1	06/16/2015 13:52	CG
<b>METALS, TOTAL SW6010C</b>			<b>(SW3050B)</b>					
Arsenic	BRL	5.89		mg/Kg-dry	208707	1	06/13/2015 02:59	TA
Barium	22.2	5.89		mg/Kg-dry	208707	1	06/13/2015 02:59	TA
Cadmium	BRL	2.94		mg/Kg-dry	208707	1	06/13/2015 02:59	TA
Chromium	4.86	2.94		mg/Kg-dry	208707	1	06/13/2015 02:59	TA
Lead	11.1	5.89		mg/Kg-dry	208707	1	06/13/2015 02:59	TA
Nickel	BRL	5.89		mg/Kg-dry	208707	1	06/13/2015 02:59	TA
Phosphorus	120	29.4		mg/Kg-dry	208707	1	06/15/2015 17:26	IO
Selenium	BRL	5.89		mg/Kg-dry	208707	1	06/13/2015 02:59	TA
Silver	BRL	2.94		mg/Kg-dry	208707	1	06/13/2015 02:59	TA
Zinc	17.2	5.89		mg/Kg-dry	208707	1	06/13/2015 02:59	TA
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	17.2	0		wt%	R293980	1	06/16/2015 10:00	PF

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15161-DUP
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/10/2015
<b>Lab ID:</b> 1506C34-025	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL-SEMIVOLATILE ORGANICS SW8270D (SW3510C)</b>								
1,1'-Biphenyl	BRL	10		ug/L	208676	1	06/15/2015 22:30	YH
2,4,5-Trichlorophenol	BRL	25		ug/L	208676	1	06/15/2015 22:30	YH
2,4,6-Trichlorophenol	BRL	10		ug/L	208676	1	06/15/2015 22:30	YH
2,4-Dichlorophenol	BRL	10		ug/L	208676	1	06/15/2015 22:30	YH
2,4-Dimethylphenol	BRL	10		ug/L	208676	1	06/15/2015 22:30	YH
2,4-Dinitrophenol	BRL	25		ug/L	208676	1	06/15/2015 22:30	YH
2,4-Dinitrotoluene	BRL	10		ug/L	208676	1	06/15/2015 22:30	YH
2,6-Dinitrotoluene	BRL	10		ug/L	208676	1	06/15/2015 22:30	YH
2-Chloronaphthalene	BRL	10		ug/L	208676	1	06/15/2015 22:30	YH
2-Chlorophenol	BRL	10		ug/L	208676	1	06/15/2015 22:30	YH
2-Methylnaphthalene	BRL	10		ug/L	208676	1	06/15/2015 22:30	YH
2-Methylphenol	BRL	10		ug/L	208676	1	06/15/2015 22:30	YH
2-Nitroaniline	BRL	25		ug/L	208676	1	06/15/2015 22:30	YH
2-Nitrophenol	BRL	10		ug/L	208676	1	06/15/2015 22:30	YH
3,3'-Dichlorobenzidine	BRL	10		ug/L	208676	1	06/15/2015 22:30	YH
3-Nitroaniline	BRL	25		ug/L	208676	1	06/15/2015 22:30	YH
4,6-Dinitro-2-methylphenol	BRL	25		ug/L	208676	1	06/15/2015 22:30	YH
4-Bromophenyl phenyl ether	BRL	10		ug/L	208676	1	06/15/2015 22:30	YH
4-Chloro-3-methylphenol	BRL	10		ug/L	208676	1	06/15/2015 22:30	YH
4-Chloroaniline	BRL	10		ug/L	208676	1	06/15/2015 22:30	YH
4-Chlorophenyl phenyl ether	BRL	10		ug/L	208676	1	06/15/2015 22:30	YH
4-Methylphenol	BRL	10		ug/L	208676	1	06/15/2015 22:30	YH
4-Nitroaniline	BRL	25		ug/L	208676	1	06/15/2015 22:30	YH
4-Nitrophenol	BRL	25		ug/L	208676	1	06/15/2015 22:30	YH
Acenaphthene	BRL	10		ug/L	208676	1	06/15/2015 22:30	YH
Acenaphthylene	BRL	10		ug/L	208676	1	06/15/2015 22:30	YH
Acetophenone	BRL	10		ug/L	208676	1	06/15/2015 22:30	YH
Anthracene	BRL	10		ug/L	208676	1	06/15/2015 22:30	YH
Atrazine	BRL	10		ug/L	208676	1	06/15/2015 22:30	YH
Benz(a)anthracene	BRL	10		ug/L	208676	1	06/15/2015 22:30	YH
Benzaldehyde	BRL	10		ug/L	208676	1	06/15/2015 22:30	YH
Benzo(a)pyrene	BRL	10		ug/L	208676	1	06/15/2015 22:30	YH
Benzo(b)fluoranthene	BRL	10		ug/L	208676	1	06/15/2015 22:30	YH
Benzo(g,h,i)perylene	BRL	10		ug/L	208676	1	06/15/2015 22:30	YH
Benzo(k)fluoranthene	BRL	10		ug/L	208676	1	06/15/2015 22:30	YH
Bis(2-chloroethoxy)methane	BRL	10		ug/L	208676	1	06/15/2015 22:30	YH
Bis(2-chloroethyl)ether	BRL	10		ug/L	208676	1	06/15/2015 22:30	YH
Bis(2-chloroisopropyl)ether	BRL	10		ug/L	208676	1	06/15/2015 22:30	YH
Bis(2-ethylhexyl)phthalate	BRL	10		ug/L	208676	1	06/15/2015 22:30	YH
Butyl benzyl phthalate	BRL	10		ug/L	208676	1	06/15/2015 22:30	YH
Caprolactam	BRL	10		ug/L	208676	1	06/15/2015 22:30	YH

**Qualifiers:**

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- Narr See case narrative
- NC Not confirmed
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**Analytical Environmental Services, Inc**

**Date:** 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15161-DUP
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/10/2015
<b>Lab ID:</b> 1506C34-025	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL-SEMIVOLATILE ORGANICS SW8270D</b>					<b>(SW3510C)</b>			
Carbazole	BRL	10		ug/L	208676	1	06/15/2015 22:30	YH
Chrysene	BRL	10		ug/L	208676	1	06/15/2015 22:30	YH
Di-n-butyl phthalate	BRL	10		ug/L	208676	1	06/15/2015 22:30	YH
Di-n-octyl phthalate	BRL	10		ug/L	208676	1	06/15/2015 22:30	YH
Dibenz(a,h)anthracene	BRL	10		ug/L	208676	1	06/15/2015 22:30	YH
Dibenzofuran	BRL	10		ug/L	208676	1	06/15/2015 22:30	YH
Diethyl phthalate	BRL	10		ug/L	208676	1	06/15/2015 22:30	YH
Dimethyl phthalate	BRL	10		ug/L	208676	1	06/15/2015 22:30	YH
Fluoranthene	BRL	10		ug/L	208676	1	06/15/2015 22:30	YH
Fluorene	BRL	10		ug/L	208676	1	06/15/2015 22:30	YH
Hexachlorobenzene	BRL	10		ug/L	208676	1	06/15/2015 22:30	YH
Hexachlorobutadiene	BRL	10		ug/L	208676	1	06/15/2015 22:30	YH
Hexachlorocyclopentadiene	BRL	10		ug/L	208676	1	06/15/2015 22:30	YH
Hexachloroethane	BRL	10		ug/L	208676	1	06/15/2015 22:30	YH
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	208676	1	06/15/2015 22:30	YH
Isophorone	BRL	10		ug/L	208676	1	06/15/2015 22:30	YH
N-Nitrosodi-n-propylamine	BRL	10		ug/L	208676	1	06/15/2015 22:30	YH
N-Nitrosodiphenylamine	BRL	10		ug/L	208676	1	06/15/2015 22:30	YH
Naphthalene	BRL	10		ug/L	208676	1	06/15/2015 22:30	YH
Nitrobenzene	BRL	10		ug/L	208676	1	06/15/2015 22:30	YH
Pentachlorophenol	BRL	25		ug/L	208676	1	06/15/2015 22:30	YH
Phenanthrene	BRL	10		ug/L	208676	1	06/15/2015 22:30	YH
Phenol	BRL	10		ug/L	208676	1	06/15/2015 22:30	YH
Pyrene	BRL	10		ug/L	208676	1	06/15/2015 22:30	YH
Surr: 2,4,6-Tribromophenol	89	52-133		%REC	208676	1	06/15/2015 22:30	YH
Surr: 2-Fluorobiphenyl	85.7	50-121		%REC	208676	1	06/15/2015 22:30	YH
Surr: 2-Fluorophenol	60.1	27.5-120		%REC	208676	1	06/15/2015 22:30	YH
Surr: 4-Terphenyl-d14	80.8	46.3-137		%REC	208676	1	06/15/2015 22:30	YH
Surr: Nitrobenzene-d5	78.4	41.2-121		%REC	208676	1	06/15/2015 22:30	YH
Surr: Phenol-d5	46.4	14.3-120		%REC	208676	1	06/15/2015 22:30	YH
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5030B)</b>			
1,1,1-Trichloroethane	BRL	5.0		ug/L	208771	1	06/13/2015 19:53	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	208771	1	06/13/2015 19:53	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	208771	1	06/13/2015 19:53	GK
1,1-Dichloroethane	BRL	5.0		ug/L	208771	1	06/13/2015 19:53	GK
1,1-Dichloroethene	BRL	5.0		ug/L	208771	1	06/13/2015 19:53	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	208771	1	06/13/2015 19:53	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	208771	1	06/13/2015 19:53	GK
1,2-Dibromoethane	BRL	5.0		ug/L	208771	1	06/13/2015 19:53	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	208771	1	06/13/2015 19:53	GK

**Qualifiers:**

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**Analytical Environmental Services, Inc**

**Date:** 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15161-DUP
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/10/2015
<b>Lab ID:</b> 1506C34-025	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,2-Dichloroethane	BRL	5.0		ug/L	208771	1	06/13/2015 19:53	GK
1,2-Dichloropropane	BRL	5.0		ug/L	208771	1	06/13/2015 19:53	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	208771	1	06/13/2015 19:53	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	208771	1	06/13/2015 19:53	GK
2-Butanone	BRL	50		ug/L	208771	1	06/13/2015 19:53	GK
2-Hexanone	BRL	10		ug/L	208771	1	06/13/2015 19:53	GK
4-Methyl-2-pentanone	BRL	10		ug/L	208771	1	06/13/2015 19:53	GK
Acetone	BRL	50		ug/L	208771	1	06/13/2015 19:53	GK
Benzene	BRL	5.0		ug/L	208771	1	06/13/2015 19:53	GK
Bromodichloromethane	BRL	5.0		ug/L	208771	1	06/13/2015 19:53	GK
Bromoform	BRL	5.0		ug/L	208771	1	06/13/2015 19:53	GK
Bromomethane	BRL	5.0		ug/L	208771	1	06/13/2015 19:53	GK
Carbon disulfide	BRL	5.0		ug/L	208771	1	06/13/2015 19:53	GK
Carbon tetrachloride	BRL	5.0		ug/L	208771	1	06/13/2015 19:53	GK
Chlorobenzene	BRL	5.0		ug/L	208771	1	06/13/2015 19:53	GK
Chloroethane	BRL	10		ug/L	208771	1	06/13/2015 19:53	GK
Chloroform	BRL	5.0		ug/L	208771	1	06/13/2015 19:53	GK
Chloromethane	BRL	10		ug/L	208771	1	06/13/2015 19:53	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	208771	1	06/13/2015 19:53	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	208771	1	06/13/2015 19:53	GK
Cyclohexane	BRL	5.0		ug/L	208771	1	06/13/2015 19:53	GK
Dibromochloromethane	BRL	5.0		ug/L	208771	1	06/13/2015 19:53	GK
Dichlorodifluoromethane	BRL	10		ug/L	208771	1	06/13/2015 19:53	GK
Ethylbenzene	BRL	5.0		ug/L	208771	1	06/13/2015 19:53	GK
Freon-113	BRL	10		ug/L	208771	1	06/13/2015 19:53	GK
Isopropylbenzene	BRL	5.0		ug/L	208771	1	06/13/2015 19:53	GK
m,p-Xylene	BRL	5.0		ug/L	208771	1	06/13/2015 19:53	GK
Methyl acetate	BRL	5.0		ug/L	208771	1	06/13/2015 19:53	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	208771	1	06/13/2015 19:53	GK
Methylcyclohexane	BRL	5.0		ug/L	208771	1	06/13/2015 19:53	GK
Methylene chloride	BRL	5.0		ug/L	208771	1	06/13/2015 19:53	GK
o-Xylene	BRL	5.0		ug/L	208771	1	06/13/2015 19:53	GK
Styrene	BRL	5.0		ug/L	208771	1	06/13/2015 19:53	GK
Tetrachloroethene	BRL	5.0		ug/L	208771	1	06/13/2015 19:53	GK
Toluene	BRL	5.0		ug/L	208771	1	06/13/2015 19:53	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	208771	1	06/13/2015 19:53	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	208771	1	06/13/2015 19:53	GK
Trichloroethene	BRL	5.0		ug/L	208771	1	06/13/2015 19:53	GK
Trichlorofluoromethane	BRL	5.0		ug/L	208771	1	06/13/2015 19:53	GK
Vinyl chloride	BRL	2.0		ug/L	208771	1	06/13/2015 19:53	GK
Surr: 4-Bromofluorobenzene	92	70.6-123		%REC	208771	1	06/13/2015 19:53	GK

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- E Estimated (value above quantitation range)
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- Narr See case narrative
- NC Not confirmed
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**Analytical Environmental Services, Inc**

**Date:** 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15161-DUP
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/10/2015
<b>Lab ID:</b> 1506C34-025	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>			<b>(SW5030B)</b>					
Surr: Dibromofluoromethane	101	78.7-124		%REC	208771	1	06/13/2015 19:53	GK
Surr: Toluene-d8	103	81.3-120		%REC	208771	1	06/13/2015 19:53	GK
<b>Mercury, Total SW7470A</b>			<b>(SW7470A)</b>					
Mercury	BRL	0.00020		mg/L	208854	1	06/16/2015 14:07	TA
<b>METALS, TOTAL SW6010C</b>			<b>(SW3010A)</b>					
Arsenic	BRL	0.0500		mg/L	208701	1	06/15/2015 19:34	IO
Barium	0.0928	0.0200		mg/L	208701	1	06/15/2015 19:34	IO
Cadmium	BRL	0.0050		mg/L	208701	1	06/15/2015 19:34	IO
Chromium	BRL	0.0100		mg/L	208701	1	06/15/2015 19:34	IO
Lead	BRL	0.0100		mg/L	208701	1	06/15/2015 19:34	IO
Nickel	BRL	0.0200		mg/L	208701	1	06/15/2015 19:34	IO
Phosphorus	BRL	0.100		mg/L	208701	1	06/18/2015 14:39	IO
Selenium	BRL	0.0200		mg/L	208701	1	06/15/2015 19:34	IO
Silver	BRL	0.0100		mg/L	208701	1	06/15/2015 19:34	IO
Zinc	0.0256	0.0200		mg/L	208701	1	06/15/2015 19:34	IO

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**Analytical Environmental Services, Inc**

**Date:** 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15161-SD-4
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/10/2015 1:41:00 PM
<b>Lab ID:</b> 1506C34-026	<b>Matrix:</b> Sediment

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TOTAL MERCURY SW7471B</b>		<b>(SW7471B)</b>						
Mercury	BRL	0.157		mg/Kg-dry	208773	1	06/15/2015 16:48	TA
<b>TCL-SEMIVOLATILE ORGANICS SW8270D</b>		<b>(SW3550C)</b>						
1,1'-Biphenyl	BRL	530		ug/Kg-dry	208413	1	06/12/2015 19:57	YH
2,4,5-Trichlorophenol	BRL	2700		ug/Kg-dry	208413	1	06/12/2015 19:57	YH
2,4,6-Trichlorophenol	BRL	530		ug/Kg-dry	208413	1	06/12/2015 19:57	YH
2,4-Dichlorophenol	BRL	530		ug/Kg-dry	208413	1	06/12/2015 19:57	YH
2,4-Dimethylphenol	BRL	530		ug/Kg-dry	208413	1	06/12/2015 19:57	YH
2,4-Dinitrophenol	BRL	2700		ug/Kg-dry	208413	1	06/12/2015 19:57	YH
2,4-Dinitrotoluene	BRL	530		ug/Kg-dry	208413	1	06/12/2015 19:57	YH
2,6-Dinitrotoluene	BRL	530		ug/Kg-dry	208413	1	06/12/2015 19:57	YH
2-Chloronaphthalene	BRL	530		ug/Kg-dry	208413	1	06/12/2015 19:57	YH
2-Chlorophenol	BRL	530		ug/Kg-dry	208413	1	06/12/2015 19:57	YH
2-Methylnaphthalene	BRL	530		ug/Kg-dry	208413	1	06/12/2015 19:57	YH
2-Methylphenol	BRL	530		ug/Kg-dry	208413	1	06/12/2015 19:57	YH
2-Nitroaniline	BRL	2700		ug/Kg-dry	208413	1	06/12/2015 19:57	YH
2-Nitrophenol	BRL	530		ug/Kg-dry	208413	1	06/12/2015 19:57	YH
3,3'-Dichlorobenzidine	BRL	1100		ug/Kg-dry	208413	1	06/12/2015 19:57	YH
3-Nitroaniline	BRL	2700		ug/Kg-dry	208413	1	06/12/2015 19:57	YH
4,6-Dinitro-2-methylphenol	BRL	2700		ug/Kg-dry	208413	1	06/12/2015 19:57	YH
4-Bromophenyl phenyl ether	BRL	530		ug/Kg-dry	208413	1	06/12/2015 19:57	YH
4-Chloro-3-methylphenol	BRL	530		ug/Kg-dry	208413	1	06/12/2015 19:57	YH
4-Chloroaniline	BRL	530		ug/Kg-dry	208413	1	06/12/2015 19:57	YH
4-Chlorophenyl phenyl ether	BRL	530		ug/Kg-dry	208413	1	06/12/2015 19:57	YH
4-Methylphenol	BRL	530		ug/Kg-dry	208413	1	06/12/2015 19:57	YH
4-Nitroaniline	BRL	2700		ug/Kg-dry	208413	1	06/12/2015 19:57	YH
4-Nitrophenol	BRL	2700		ug/Kg-dry	208413	1	06/12/2015 19:57	YH
Acenaphthene	BRL	530		ug/Kg-dry	208413	1	06/12/2015 19:57	YH
Acenaphthylene	BRL	530		ug/Kg-dry	208413	1	06/12/2015 19:57	YH
Acetophenone	BRL	530		ug/Kg-dry	208413	1	06/12/2015 19:57	YH
Anthracene	BRL	530		ug/Kg-dry	208413	1	06/12/2015 19:57	YH
Atrazine	BRL	530		ug/Kg-dry	208413	1	06/12/2015 19:57	YH
Benz(a)anthracene	BRL	530		ug/Kg-dry	208413	1	06/12/2015 19:57	YH
Benzaldehyde	BRL	530		ug/Kg-dry	208413	1	06/12/2015 19:57	YH
Benzo(a)pyrene	BRL	530		ug/Kg-dry	208413	1	06/12/2015 19:57	YH
Benzo(b)fluoranthene	BRL	530		ug/Kg-dry	208413	1	06/12/2015 19:57	YH
Benzo(g,h,i)perylene	BRL	530		ug/Kg-dry	208413	1	06/12/2015 19:57	YH
Benzo(k)fluoranthene	BRL	530		ug/Kg-dry	208413	1	06/12/2015 19:57	YH
Bis(2-chloroethoxy)methane	BRL	530		ug/Kg-dry	208413	1	06/12/2015 19:57	YH
Bis(2-chloroethyl)ether	BRL	530		ug/Kg-dry	208413	1	06/12/2015 19:57	YH
Bis(2-chloroisopropyl)ether	BRL	530		ug/Kg-dry	208413	1	06/12/2015 19:57	YH

**Qualifiers:**

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**Analytical Environmental Services, Inc**

**Date:** 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15161-SD-4
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/10/2015 1:41:00 PM
<b>Lab ID:</b> 1506C34-026	<b>Matrix:</b> Sediment

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL-SEMIVOLATILE ORGANICS SW8270D</b>		<b>(SW3550C)</b>						
Bis(2-ethylhexyl)phthalate	BRL	530		ug/Kg-dry	208413	1	06/12/2015 19:57	YH
Butyl benzyl phthalate	BRL	530		ug/Kg-dry	208413	1	06/12/2015 19:57	YH
Caprolactam	BRL	530		ug/Kg-dry	208413	1	06/12/2015 19:57	YH
Carbazole	BRL	530		ug/Kg-dry	208413	1	06/12/2015 19:57	YH
Chrysene	BRL	530		ug/Kg-dry	208413	1	06/12/2015 19:57	YH
Di-n-butyl phthalate	BRL	530		ug/Kg-dry	208413	1	06/12/2015 19:57	YH
Di-n-octyl phthalate	BRL	530		ug/Kg-dry	208413	1	06/12/2015 19:57	YH
Dibenz(a,h)anthracene	BRL	530		ug/Kg-dry	208413	1	06/12/2015 19:57	YH
Dibenzofuran	BRL	530		ug/Kg-dry	208413	1	06/12/2015 19:57	YH
Diethyl phthalate	BRL	530		ug/Kg-dry	208413	1	06/12/2015 19:57	YH
Dimethyl phthalate	BRL	530		ug/Kg-dry	208413	1	06/12/2015 19:57	YH
Fluoranthene	BRL	530		ug/Kg-dry	208413	1	06/12/2015 19:57	YH
Fluorene	BRL	530		ug/Kg-dry	208413	1	06/12/2015 19:57	YH
Hexachlorobenzene	BRL	530		ug/Kg-dry	208413	1	06/12/2015 19:57	YH
Hexachlorobutadiene	BRL	530		ug/Kg-dry	208413	1	06/12/2015 19:57	YH
Hexachlorocyclopentadiene	BRL	1100		ug/Kg-dry	208413	1	06/12/2015 19:57	YH
Hexachloroethane	BRL	530		ug/Kg-dry	208413	1	06/12/2015 19:57	YH
Indeno(1,2,3-cd)pyrene	BRL	530		ug/Kg-dry	208413	1	06/12/2015 19:57	YH
Isophorone	BRL	530		ug/Kg-dry	208413	1	06/12/2015 19:57	YH
N-Nitrosodi-n-propylamine	BRL	530		ug/Kg-dry	208413	1	06/12/2015 19:57	YH
N-Nitrosodiphenylamine	BRL	530		ug/Kg-dry	208413	1	06/12/2015 19:57	YH
Naphthalene	BRL	530		ug/Kg-dry	208413	1	06/12/2015 19:57	YH
Nitrobenzene	BRL	530		ug/Kg-dry	208413	1	06/12/2015 19:57	YH
Pentachlorophenol	BRL	2700		ug/Kg-dry	208413	1	06/12/2015 19:57	YH
Phenanthrene	BRL	530		ug/Kg-dry	208413	1	06/12/2015 19:57	YH
Phenol	BRL	530		ug/Kg-dry	208413	1	06/12/2015 19:57	YH
Pyrene	BRL	530		ug/Kg-dry	208413	1	06/12/2015 19:57	YH
Surr: 2,4,6-Tribromophenol	78	41-128		%REC	208413	1	06/12/2015 19:57	YH
Surr: 2-Fluorobiphenyl	78.6	47-120		%REC	208413	1	06/12/2015 19:57	YH
Surr: 2-Fluorophenol	73	38.3-120		%REC	208413	1	06/12/2015 19:57	YH
Surr: 4-Terphenyl-d14	71.5	51.4-125		%REC	208413	1	06/12/2015 19:57	YH
Surr: Nitrobenzene-d5	69	40.1-120		%REC	208413	1	06/12/2015 19:57	YH
Surr: Phenol-d5	86.8	40.3-120		%REC	208413	1	06/12/2015 19:57	YH
<b>TCL VOLATILE ORGANICS SW8260B</b>		<b>(SW5035)</b>						
1,1,1-Trichloroethane	BRL	5.8		ug/Kg-dry	208832	1	06/16/2015 14:16	CG
1,1,2,2-Tetrachloroethane	BRL	5.8		ug/Kg-dry	208832	1	06/16/2015 14:16	CG
1,1,2-Trichloroethane	BRL	5.8		ug/Kg-dry	208832	1	06/16/2015 14:16	CG
1,1-Dichloroethane	BRL	5.8		ug/Kg-dry	208832	1	06/16/2015 14:16	CG
1,1-Dichloroethene	BRL	5.8		ug/Kg-dry	208832	1	06/16/2015 14:16	CG
1,2,4-Trichlorobenzene	BRL	5.8		ug/Kg-dry	208832	1	06/16/2015 14:16	CG

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15161-SD-4
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/10/2015 1:41:00 PM
<b>Lab ID:</b> 1506C34-026	<b>Matrix:</b> Sediment

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,2-Dibromo-3-chloropropane	BRL	5.8		ug/Kg-dry	208832	1	06/16/2015 14:16	CG
1,2-Dibromoethane	BRL	5.8		ug/Kg-dry	208832	1	06/16/2015 14:16	CG
1,2-Dichlorobenzene	BRL	5.8		ug/Kg-dry	208832	1	06/16/2015 14:16	CG
1,2-Dichloroethane	BRL	5.8		ug/Kg-dry	208832	1	06/16/2015 14:16	CG
1,2-Dichloropropane	BRL	5.8		ug/Kg-dry	208832	1	06/16/2015 14:16	CG
1,3-Dichlorobenzene	BRL	5.8		ug/Kg-dry	208832	1	06/16/2015 14:16	CG
1,4-Dichlorobenzene	BRL	5.8		ug/Kg-dry	208832	1	06/16/2015 14:16	CG
2-Butanone	BRL	58		ug/Kg-dry	208832	1	06/16/2015 14:16	CG
2-Hexanone	BRL	12		ug/Kg-dry	208832	1	06/16/2015 14:16	CG
4-Methyl-2-pentanone	BRL	12		ug/Kg-dry	208832	1	06/16/2015 14:16	CG
Acetone	210	120		ug/Kg-dry	208832	1	06/16/2015 14:16	CG
Benzene	BRL	5.8		ug/Kg-dry	208832	1	06/16/2015 14:16	CG
Bromodichloromethane	BRL	5.8		ug/Kg-dry	208832	1	06/16/2015 14:16	CG
Bromoform	BRL	5.8		ug/Kg-dry	208832	1	06/16/2015 14:16	CG
Bromomethane	BRL	5.8		ug/Kg-dry	208832	1	06/16/2015 14:16	CG
Carbon disulfide	BRL	12		ug/Kg-dry	208832	1	06/16/2015 14:16	CG
Carbon tetrachloride	BRL	5.8		ug/Kg-dry	208832	1	06/16/2015 14:16	CG
Chlorobenzene	BRL	5.8		ug/Kg-dry	208832	1	06/16/2015 14:16	CG
Chloroethane	BRL	12		ug/Kg-dry	208832	1	06/16/2015 14:16	CG
Chloroform	BRL	5.8		ug/Kg-dry	208832	1	06/16/2015 14:16	CG
Chloromethane	BRL	12		ug/Kg-dry	208832	1	06/16/2015 14:16	CG
cis-1,2-Dichloroethene	BRL	5.8		ug/Kg-dry	208832	1	06/16/2015 14:16	CG
cis-1,3-Dichloropropene	BRL	5.8		ug/Kg-dry	208832	1	06/16/2015 14:16	CG
Cyclohexane	BRL	5.8		ug/Kg-dry	208832	1	06/16/2015 14:16	CG
Dibromochloromethane	BRL	5.8		ug/Kg-dry	208832	1	06/16/2015 14:16	CG
Dichlorodifluoromethane	BRL	12		ug/Kg-dry	208832	1	06/16/2015 14:16	CG
Ethylbenzene	BRL	5.8		ug/Kg-dry	208832	1	06/16/2015 14:16	CG
Freon-113	BRL	12		ug/Kg-dry	208832	1	06/16/2015 14:16	CG
Isopropylbenzene	BRL	5.8		ug/Kg-dry	208832	1	06/16/2015 14:16	CG
m,p-Xylene	BRL	5.8		ug/Kg-dry	208832	1	06/16/2015 14:16	CG
Methyl acetate	BRL	5.8		ug/Kg-dry	208832	1	06/16/2015 14:16	CG
Methyl tert-butyl ether	BRL	5.8		ug/Kg-dry	208832	1	06/16/2015 14:16	CG
Methylcyclohexane	BRL	5.8		ug/Kg-dry	208832	1	06/16/2015 14:16	CG
Methylene chloride	BRL	23		ug/Kg-dry	208832	1	06/16/2015 14:16	CG
o-Xylene	BRL	5.8		ug/Kg-dry	208832	1	06/16/2015 14:16	CG
Styrene	BRL	5.8		ug/Kg-dry	208832	1	06/16/2015 14:16	CG
Tetrachloroethene	BRL	5.8		ug/Kg-dry	208832	1	06/16/2015 14:16	CG
Toluene	BRL	5.8		ug/Kg-dry	208832	1	06/16/2015 14:16	CG
trans-1,2-Dichloroethene	BRL	5.8		ug/Kg-dry	208832	1	06/16/2015 14:16	CG
trans-1,3-Dichloropropene	BRL	5.8		ug/Kg-dry	208832	1	06/16/2015 14:16	CG
Trichloroethene	BRL	5.8		ug/Kg-dry	208832	1	06/16/2015 14:16	CG

<b>Qualifiers:</b>	* Value exceeds maximum contaminant level	E Estimated (value above quantitation range)
	BRL Below reporting limit	S Spike Recovery outside limits due to matrix
	H Holding times for preparation or analysis exceeded	Narr See case narrative
	N Analyte not NELAC certified	NC Not confirmed
	B Analyte detected in the associated method blank	< Less than Result value
	> Greater than Result value	J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15161-SD-4
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/10/2015 1:41:00 PM
<b>Lab ID:</b> 1506C34-026	<b>Matrix:</b> Sediment

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5035)</b>			
Trichlorofluoromethane	BRL	5.8		ug/Kg-dry	208832	1	06/16/2015 14:16	CG
Vinyl chloride	BRL	12		ug/Kg-dry	208832	1	06/16/2015 14:16	CG
Surr: 4-Bromofluorobenzene	69.7	70-128	S	%REC	208832	1	06/16/2015 14:16	CG
Surr: Dibromofluoromethane	98.9	78.2-128		%REC	208832	1	06/16/2015 14:16	CG
Surr: Toluene-d8	91.6	76.5-116		%REC	208832	1	06/16/2015 14:16	CG
<b>METALS, TOTAL SW6010C</b>					<b>(SW3050B)</b>			
Arsenic	BRL	7.76		mg/Kg-dry	208707	1	06/13/2015 03:08	TA
Barium	58.9	7.76		mg/Kg-dry	208707	1	06/13/2015 03:08	TA
Cadmium	BRL	3.88		mg/Kg-dry	208707	1	06/13/2015 03:08	TA
Chromium	510	3.88		mg/Kg-dry	208707	1	06/13/2015 03:08	TA
Lead	88.4	7.76		mg/Kg-dry	208707	1	06/13/2015 03:08	TA
Nickel	BRL	7.76		mg/Kg-dry	208707	1	06/13/2015 03:08	TA
Phosphorus	695	38.8		mg/Kg-dry	208707	1	06/15/2015 17:28	IO
Selenium	BRL	7.76		mg/Kg-dry	208707	1	06/13/2015 03:08	TA
Silver	BRL	3.88		mg/Kg-dry	208707	1	06/13/2015 03:08	TA
Zinc	214	7.76		mg/Kg-dry	208707	1	06/13/2015 03:08	TA
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	37.3	0		wt%	R293980	1	06/16/2015 10:00	PF

**Qualifiers:**

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Analytical Environmental Services, Inc

Date: 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15161-SW-4
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/10/2015 1:45:00 PM
<b>Lab ID:</b> 1506C34-027	<b>Matrix:</b> Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL-SEMIVOLATILE ORGANICS SW8270D (SW3510C)</b>								
1,1'-Biphenyl	BRL	10		ug/L	208676	1	06/15/2015 22:55	YH
2,4,5-Trichlorophenol	BRL	25		ug/L	208676	1	06/15/2015 22:55	YH
2,4,6-Trichlorophenol	BRL	10		ug/L	208676	1	06/15/2015 22:55	YH
2,4-Dichlorophenol	BRL	10		ug/L	208676	1	06/15/2015 22:55	YH
2,4-Dimethylphenol	BRL	10		ug/L	208676	1	06/15/2015 22:55	YH
2,4-Dinitrophenol	BRL	25		ug/L	208676	1	06/15/2015 22:55	YH
2,4-Dinitrotoluene	BRL	10		ug/L	208676	1	06/15/2015 22:55	YH
2,6-Dinitrotoluene	BRL	10		ug/L	208676	1	06/15/2015 22:55	YH
2-Chloronaphthalene	BRL	10		ug/L	208676	1	06/15/2015 22:55	YH
2-Chlorophenol	BRL	10		ug/L	208676	1	06/15/2015 22:55	YH
2-Methylnaphthalene	BRL	10		ug/L	208676	1	06/15/2015 22:55	YH
2-Methylphenol	BRL	10		ug/L	208676	1	06/15/2015 22:55	YH
2-Nitroaniline	BRL	25		ug/L	208676	1	06/15/2015 22:55	YH
2-Nitrophenol	BRL	10		ug/L	208676	1	06/15/2015 22:55	YH
3,3'-Dichlorobenzidine	BRL	10		ug/L	208676	1	06/15/2015 22:55	YH
3-Nitroaniline	BRL	25		ug/L	208676	1	06/15/2015 22:55	YH
4,6-Dinitro-2-methylphenol	BRL	25		ug/L	208676	1	06/15/2015 22:55	YH
4-Bromophenyl phenyl ether	BRL	10		ug/L	208676	1	06/15/2015 22:55	YH
4-Chloro-3-methylphenol	BRL	10		ug/L	208676	1	06/15/2015 22:55	YH
4-Chloroaniline	BRL	10		ug/L	208676	1	06/15/2015 22:55	YH
4-Chlorophenyl phenyl ether	BRL	10		ug/L	208676	1	06/15/2015 22:55	YH
4-Methylphenol	BRL	10		ug/L	208676	1	06/15/2015 22:55	YH
4-Nitroaniline	BRL	25		ug/L	208676	1	06/15/2015 22:55	YH
4-Nitrophenol	BRL	25		ug/L	208676	1	06/15/2015 22:55	YH
Acenaphthene	BRL	10		ug/L	208676	1	06/15/2015 22:55	YH
Acenaphthylene	BRL	10		ug/L	208676	1	06/15/2015 22:55	YH
Acetophenone	BRL	10		ug/L	208676	1	06/15/2015 22:55	YH
Anthracene	BRL	10		ug/L	208676	1	06/15/2015 22:55	YH
Atrazine	BRL	10		ug/L	208676	1	06/15/2015 22:55	YH
Benz(a)anthracene	BRL	10		ug/L	208676	1	06/15/2015 22:55	YH
Benzaldehyde	BRL	10		ug/L	208676	1	06/15/2015 22:55	YH
Benzo(a)pyrene	BRL	10		ug/L	208676	1	06/15/2015 22:55	YH
Benzo(b)fluoranthene	BRL	10		ug/L	208676	1	06/15/2015 22:55	YH
Benzo(g,h,i)perylene	BRL	10		ug/L	208676	1	06/15/2015 22:55	YH
Benzo(k)fluoranthene	BRL	10		ug/L	208676	1	06/15/2015 22:55	YH
Bis(2-chloroethoxy)methane	BRL	10		ug/L	208676	1	06/15/2015 22:55	YH
Bis(2-chloroethyl)ether	BRL	10		ug/L	208676	1	06/15/2015 22:55	YH
Bis(2-chloroisopropyl)ether	BRL	10		ug/L	208676	1	06/15/2015 22:55	YH
Bis(2-ethylhexyl)phthalate	BRL	10		ug/L	208676	1	06/15/2015 22:55	YH
Butyl benzyl phthalate	BRL	10		ug/L	208676	1	06/15/2015 22:55	YH
Caprolactam	BRL	10		ug/L	208676	1	06/15/2015 22:55	YH

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<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15161-SW-4
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/10/2015 1:45:00 PM
<b>Lab ID:</b> 1506C34-027	<b>Matrix:</b> Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL-SEMIVOLATILE ORGANICS SW8270D</b>					<b>(SW3510C)</b>			
Carbazole	BRL	10		ug/L	208676	1	06/15/2015 22:55	YH
Chrysene	BRL	10		ug/L	208676	1	06/15/2015 22:55	YH
Di-n-butyl phthalate	BRL	10		ug/L	208676	1	06/15/2015 22:55	YH
Di-n-octyl phthalate	BRL	10		ug/L	208676	1	06/15/2015 22:55	YH
Dibenz(a,h)anthracene	BRL	10		ug/L	208676	1	06/15/2015 22:55	YH
Dibenzofuran	BRL	10		ug/L	208676	1	06/15/2015 22:55	YH
Diethyl phthalate	BRL	10		ug/L	208676	1	06/15/2015 22:55	YH
Dimethyl phthalate	BRL	10		ug/L	208676	1	06/15/2015 22:55	YH
Fluoranthene	BRL	10		ug/L	208676	1	06/15/2015 22:55	YH
Fluorene	BRL	10		ug/L	208676	1	06/15/2015 22:55	YH
Hexachlorobenzene	BRL	10		ug/L	208676	1	06/15/2015 22:55	YH
Hexachlorobutadiene	BRL	10		ug/L	208676	1	06/15/2015 22:55	YH
Hexachlorocyclopentadiene	BRL	10		ug/L	208676	1	06/15/2015 22:55	YH
Hexachloroethane	BRL	10		ug/L	208676	1	06/15/2015 22:55	YH
Indeno(1,2,3-cd)pyrene	BRL	10		ug/L	208676	1	06/15/2015 22:55	YH
Isophorone	BRL	10		ug/L	208676	1	06/15/2015 22:55	YH
N-Nitrosodi-n-propylamine	BRL	10		ug/L	208676	1	06/15/2015 22:55	YH
N-Nitrosodiphenylamine	BRL	10		ug/L	208676	1	06/15/2015 22:55	YH
Naphthalene	BRL	10		ug/L	208676	1	06/15/2015 22:55	YH
Nitrobenzene	BRL	10		ug/L	208676	1	06/15/2015 22:55	YH
Pentachlorophenol	BRL	25		ug/L	208676	1	06/15/2015 22:55	YH
Phenanthrene	BRL	10		ug/L	208676	1	06/15/2015 22:55	YH
Phenol	BRL	10		ug/L	208676	1	06/15/2015 22:55	YH
Pyrene	BRL	10		ug/L	208676	1	06/15/2015 22:55	YH
Surr: 2,4,6-Tribromophenol	86.4	52-133		%REC	208676	1	06/15/2015 22:55	YH
Surr: 2-Fluorobiphenyl	79.2	50-121		%REC	208676	1	06/15/2015 22:55	YH
Surr: 2-Fluorophenol	44.6	27.5-120		%REC	208676	1	06/15/2015 22:55	YH
Surr: 4-Terphenyl-d14	68.6	46.3-137		%REC	208676	1	06/15/2015 22:55	YH
Surr: Nitrobenzene-d5	66.7	41.2-121		%REC	208676	1	06/15/2015 22:55	YH
Surr: Phenol-d5	36.1	14.3-120		%REC	208676	1	06/15/2015 22:55	YH
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5030B)</b>			
1,1,1-Trichloroethane	BRL	5.0		ug/L	208722	1	06/12/2015 18:59	CH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	208722	1	06/12/2015 18:59	CH
1,1,2-Trichloroethane	BRL	5.0		ug/L	208722	1	06/12/2015 18:59	CH
1,1-Dichloroethane	BRL	5.0		ug/L	208722	1	06/12/2015 18:59	CH
1,1-Dichloroethene	BRL	5.0		ug/L	208722	1	06/12/2015 18:59	CH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	208722	1	06/12/2015 18:59	CH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	208722	1	06/12/2015 18:59	CH
1,2-Dibromoethane	BRL	5.0		ug/L	208722	1	06/12/2015 18:59	CH
1,2-Dichlorobenzene	BRL	5.0		ug/L	208722	1	06/12/2015 18:59	CH

**Qualifiers:**

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- BRL Below reporting limit
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**Analytical Environmental Services, Inc**

**Date:** 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15161-SW-4
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/10/2015 1:45:00 PM
<b>Lab ID:</b> 1506C34-027	<b>Matrix:</b> Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,2-Dichloroethane	BRL	5.0		ug/L	208722	1	06/12/2015 18:59	CH
1,2-Dichloropropane	BRL	5.0		ug/L	208722	1	06/12/2015 18:59	CH
1,3-Dichlorobenzene	BRL	5.0		ug/L	208722	1	06/12/2015 18:59	CH
1,4-Dichlorobenzene	BRL	5.0		ug/L	208722	1	06/12/2015 18:59	CH
2-Butanone	BRL	50		ug/L	208722	1	06/12/2015 18:59	CH
2-Hexanone	BRL	10		ug/L	208722	1	06/12/2015 18:59	CH
4-Methyl-2-pentanone	BRL	10		ug/L	208722	1	06/12/2015 18:59	CH
Acetone	BRL	50		ug/L	208722	1	06/12/2015 18:59	CH
Benzene	BRL	5.0		ug/L	208722	1	06/12/2015 18:59	CH
Bromodichloromethane	BRL	5.0		ug/L	208722	1	06/12/2015 18:59	CH
Bromoform	BRL	5.0		ug/L	208722	1	06/12/2015 18:59	CH
Bromomethane	BRL	5.0		ug/L	208722	1	06/12/2015 18:59	CH
Carbon disulfide	BRL	5.0		ug/L	208722	1	06/12/2015 18:59	CH
Carbon tetrachloride	BRL	5.0		ug/L	208722	1	06/12/2015 18:59	CH
Chlorobenzene	BRL	5.0		ug/L	208722	1	06/12/2015 18:59	CH
Chloroethane	BRL	10		ug/L	208722	1	06/12/2015 18:59	CH
Chloroform	BRL	5.0		ug/L	208722	1	06/12/2015 18:59	CH
Chloromethane	BRL	10		ug/L	208722	1	06/12/2015 18:59	CH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	208722	1	06/12/2015 18:59	CH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	208722	1	06/12/2015 18:59	CH
Cyclohexane	BRL	5.0		ug/L	208722	1	06/12/2015 18:59	CH
Dibromochloromethane	BRL	5.0		ug/L	208722	1	06/12/2015 18:59	CH
Dichlorodifluoromethane	BRL	10		ug/L	208722	1	06/12/2015 18:59	CH
Ethylbenzene	BRL	5.0		ug/L	208722	1	06/12/2015 18:59	CH
Freon-113	BRL	10		ug/L	208722	1	06/12/2015 18:59	CH
Isopropylbenzene	BRL	5.0		ug/L	208722	1	06/12/2015 18:59	CH
m,p-Xylene	BRL	5.0		ug/L	208722	1	06/12/2015 18:59	CH
Methyl acetate	BRL	5.0		ug/L	208722	1	06/12/2015 18:59	CH
Methyl tert-butyl ether	BRL	5.0		ug/L	208722	1	06/12/2015 18:59	CH
Methylcyclohexane	BRL	5.0		ug/L	208722	1	06/12/2015 18:59	CH
Methylene chloride	BRL	5.0		ug/L	208722	1	06/12/2015 18:59	CH
o-Xylene	BRL	5.0		ug/L	208722	1	06/12/2015 18:59	CH
Styrene	BRL	5.0		ug/L	208722	1	06/12/2015 18:59	CH
Tetrachloroethene	BRL	5.0		ug/L	208722	1	06/12/2015 18:59	CH
Toluene	BRL	5.0		ug/L	208722	1	06/12/2015 18:59	CH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	208722	1	06/12/2015 18:59	CH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	208722	1	06/12/2015 18:59	CH
Trichloroethene	BRL	5.0		ug/L	208722	1	06/12/2015 18:59	CH
Trichlorofluoromethane	BRL	5.0		ug/L	208722	1	06/12/2015 18:59	CH
Vinyl chloride	BRL	2.0		ug/L	208722	1	06/12/2015 18:59	CH
Surr: 4-Bromofluorobenzene	96.4	70.6-123		%REC	208722	1	06/12/2015 18:59	CH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit



**Analytical Environmental Services, Inc**

**Date:** 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15161-SW-4
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/10/2015 1:45:00 PM
<b>Lab ID:</b> 1506C34-027	<b>Matrix:</b> Surface Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>			<b>(SW5030B)</b>					
Surr: Dibromofluoromethane	103	78.7-124		%REC	208722	1	06/12/2015 18:59	CH
Surr: Toluene-d8	105	81.3-120		%REC	208722	1	06/12/2015 18:59	CH
<b>Mercury, Total SW7470A</b>			<b>(SW7470A)</b>					
Mercury	BRL	0.00020		mg/L	208854	1	06/16/2015 14:09	TA
<b>METALS, TOTAL SW6010C</b>			<b>(SW3010A)</b>					
Arsenic	BRL	0.0500		mg/L	208701	1	06/15/2015 19:37	IO
Barium	0.0394	0.0200		mg/L	208701	1	06/15/2015 19:37	IO
Cadmium	BRL	0.0050		mg/L	208701	1	06/15/2015 19:37	IO
Chromium	BRL	0.0100		mg/L	208701	1	06/15/2015 19:37	IO
Lead	BRL	0.0100		mg/L	208701	1	06/15/2015 19:37	IO
Nickel	BRL	0.0200		mg/L	208701	1	06/15/2015 19:37	IO
Phosphorus	0.187	0.100		mg/L	208701	1	06/18/2015 14:42	IO
Selenium	BRL	0.0200		mg/L	208701	1	06/15/2015 19:37	IO
Silver	BRL	0.0100		mg/L	208701	1	06/15/2015 19:37	IO
Zinc	0.0221	0.0200		mg/L	208701	1	06/15/2015 19:37	IO

**Qualifiers:**

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- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> TRIP BLANK
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/5/2015
<b>Lab ID:</b> 1506C34-028	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,1,1-Trichloroethane	BRL	5.0		ug/L	208722	1	06/12/2015 12:42	CH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	208722	1	06/12/2015 12:42	CH
1,1,2-Trichloroethane	BRL	5.0		ug/L	208722	1	06/12/2015 12:42	CH
1,1-Dichloroethane	BRL	5.0		ug/L	208722	1	06/12/2015 12:42	CH
1,1-Dichloroethene	BRL	5.0		ug/L	208722	1	06/12/2015 12:42	CH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	208722	1	06/12/2015 12:42	CH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	208722	1	06/12/2015 12:42	CH
1,2-Dibromoethane	BRL	5.0		ug/L	208722	1	06/12/2015 12:42	CH
1,2-Dichlorobenzene	BRL	5.0		ug/L	208722	1	06/12/2015 12:42	CH
1,2-Dichloroethane	BRL	5.0		ug/L	208722	1	06/12/2015 12:42	CH
1,2-Dichloropropane	BRL	5.0		ug/L	208722	1	06/12/2015 12:42	CH
1,3-Dichlorobenzene	BRL	5.0		ug/L	208722	1	06/12/2015 12:42	CH
1,4-Dichlorobenzene	BRL	5.0		ug/L	208722	1	06/12/2015 12:42	CH
2-Butanone	BRL	50		ug/L	208722	1	06/12/2015 12:42	CH
2-Hexanone	BRL	10		ug/L	208722	1	06/12/2015 12:42	CH
4-Methyl-2-pentanone	BRL	10		ug/L	208722	1	06/12/2015 12:42	CH
Acetone	BRL	50		ug/L	208722	1	06/12/2015 12:42	CH
Benzene	BRL	5.0		ug/L	208722	1	06/12/2015 12:42	CH
Bromodichloromethane	BRL	5.0		ug/L	208722	1	06/12/2015 12:42	CH
Bromoform	BRL	5.0		ug/L	208722	1	06/12/2015 12:42	CH
Bromomethane	BRL	5.0		ug/L	208722	1	06/12/2015 12:42	CH
Carbon disulfide	BRL	5.0		ug/L	208722	1	06/12/2015 12:42	CH
Carbon tetrachloride	BRL	5.0		ug/L	208722	1	06/12/2015 12:42	CH
Chlorobenzene	BRL	5.0		ug/L	208722	1	06/12/2015 12:42	CH
Chloroethane	BRL	10		ug/L	208722	1	06/12/2015 12:42	CH
Chloroform	BRL	5.0		ug/L	208722	1	06/12/2015 12:42	CH
Chloromethane	BRL	10		ug/L	208722	1	06/12/2015 12:42	CH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	208722	1	06/12/2015 12:42	CH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	208722	1	06/12/2015 12:42	CH
Cyclohexane	BRL	5.0		ug/L	208722	1	06/12/2015 12:42	CH
Dibromochloromethane	BRL	5.0		ug/L	208722	1	06/12/2015 12:42	CH
Dichlorodifluoromethane	BRL	10		ug/L	208722	1	06/12/2015 12:42	CH
Ethylbenzene	BRL	5.0		ug/L	208722	1	06/12/2015 12:42	CH
Freon-113	BRL	10		ug/L	208722	1	06/12/2015 12:42	CH
Isopropylbenzene	BRL	5.0		ug/L	208722	1	06/12/2015 12:42	CH
m,p-Xylene	BRL	5.0		ug/L	208722	1	06/12/2015 12:42	CH
Methyl acetate	BRL	5.0		ug/L	208722	1	06/12/2015 12:42	CH
Methyl tert-butyl ether	BRL	5.0		ug/L	208722	1	06/12/2015 12:42	CH
Methylcyclohexane	BRL	5.0		ug/L	208722	1	06/12/2015 12:42	CH
Methylene chloride	BRL	5.0		ug/L	208722	1	06/12/2015 12:42	CH
o-Xylene	BRL	5.0		ug/L	208722	1	06/12/2015 12:42	CH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
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- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 19-Jun-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> TRIP BLANK
<b>Project Name:</b> PPC	<b>Collection Date:</b> 6/5/2015
<b>Lab ID:</b> 1506C34-028	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>			<b>(SW5030B)</b>					
Styrene	BRL	5.0		ug/L	208722	1	06/12/2015 12:42	CH
Tetrachloroethene	BRL	5.0		ug/L	208722	1	06/12/2015 12:42	CH
Toluene	BRL	5.0		ug/L	208722	1	06/12/2015 12:42	CH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	208722	1	06/12/2015 12:42	CH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	208722	1	06/12/2015 12:42	CH
Trichloroethene	BRL	5.0		ug/L	208722	1	06/12/2015 12:42	CH
Trichlorofluoromethane	BRL	5.0		ug/L	208722	1	06/12/2015 12:42	CH
Vinyl chloride	BRL	2.0		ug/L	208722	1	06/12/2015 12:42	CH
Surr: 4-Bromofluorobenzene	96.8	70.6-123		%REC	208722	1	06/12/2015 12:42	CH
Surr: Dibromofluoromethane	99.2	78.7-124		%REC	208722	1	06/12/2015 12:42	CH
Surr: Toluene-d8	99.8	81.3-120		%REC	208722	1	06/12/2015 12:42	CH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Env. Planning

Work Order Number 1506C34

Checklist completed by *Miriam P...* 6/11/15  
Signature Date

Carrier name: FedEx  UPS  Courier  Client  US Mail  Other

Shipping container/cooler in good condition? Yes  No  Not Present

Custody seals intact on shipping container/cooler? Yes  No  Not Present

Custody seals intact on sample bottles? Yes  No  Not Present

Container/Temp Blank temperature in compliance? ( $0^{\circ} \leq 6^{\circ}C$ )\* Yes  No

Cooler #1 3.8°C Cooler #2 3.7°C Cooler #3 3.8°C Cooler #4 \_\_\_\_\_ Cooler #5 \_\_\_\_\_ Cooler #6 \_\_\_\_\_

Chain of custody present? Yes  No

Chain of custody signed when relinquished and received? Yes  No

Chain of custody agrees with sample labels? Yes  No  MPG/11

Samples in proper container/bottle? Yes  No

Sample containers intact? Yes  No

Sufficient sample volume for indicated test? Yes  No

All samples received within holding time? Yes  No

Was TAT marked on the COC? Yes  No

Proceed with Standard TAT as per project history? Yes  No  Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted  Yes  No

Water - pH acceptable upon receipt? Yes  No  Not Applicable

Adjusted? \_\_\_\_\_ Checked by *M.P. 6/11*

Sample Condition: Good  Other(Explain) \_\_\_\_\_

(For diffusive samples or AIHA lead) Is a known blank included? Yes  No

See Case Narrative for resolution of the Non-Conformance.

\* Samples do not have to comply with the given range for certain parameters.

Client: Environmental Planning Specialists, Inc.  
 Project Name: PPC  
 Workorder: 1506C34

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 208413

Sample ID: <b>MB-208413</b>	Client ID:	Units: <b>ug/Kg</b>	Prep Date: <b>06/12/2015</b>	Run No: <b>293767</b>							
Sample Type: <b>MBLK</b>	TestCode: <b>TCL-SEMIVOLATILE ORGANICS SW8270D</b>	BatchID: <b>208413</b>	Analysis Date: <b>06/12/2015</b>	Seq No: <b>6258393</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1'-Biphenyl	BRL	330									
2,4,5-Trichlorophenol	BRL	1700									
2,4,6-Trichlorophenol	BRL	330									
2,4-Dichlorophenol	BRL	330									
2,4-Dimethylphenol	BRL	330									
2,4-Dinitrophenol	BRL	1700									
2,4-Dinitrotoluene	BRL	330									
2,6-Dinitrotoluene	BRL	330									
2-Chloronaphthalene	BRL	330									
2-Chlorophenol	BRL	330									
2-Methylnaphthalene	BRL	330									
2-Methylphenol	BRL	330									
2-Nitroaniline	BRL	1700									
2-Nitrophenol	BRL	330									
3,3'-Dichlorobenzidine	BRL	670									
3-Nitroaniline	BRL	1700									
4,6-Dinitro-2-methylphenol	BRL	1700									
4-Bromophenyl phenyl ether	BRL	330									
4-Chloro-3-methylphenol	BRL	330									
4-Chloroaniline	BRL	330									
4-Chlorophenyl phenyl ether	BRL	330									
4-Methylphenol	BRL	330									
4-Nitroaniline	BRL	1700									
4-Nitrophenol	BRL	1700									
Acenaphthene	BRL	330									
Acenaphthylene	BRL	330									
Acetophenone	BRL	330									

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Client:** Environmental Planning Specialists, Inc.  
**Project Name:** PPC  
**Workorder:** 1506C34

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 208413**

Sample ID: <b>MB-208413</b>	Client ID:	Units: <b>ug/Kg</b>	Prep Date: <b>06/12/2015</b>	Run No: <b>293767</b>							
SampleType: <b>MBLK</b>	TestCode: <b>TCL-SEMIVOLATILE ORGANICS SW8270D</b>	BatchID: <b>208413</b>	Analysis Date: <b>06/12/2015</b>	Seq No: <b>6258393</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Anthracene	BRL	330									
Atrazine	BRL	330									
Benz(a)anthracene	BRL	330									
Benzaldehyde	BRL	330									
Benzo(a)pyrene	BRL	330									
Benzo(b)fluoranthene	BRL	330									
Benzo(g,h,i)perylene	BRL	330									
Benzo(k)fluoranthene	BRL	330									
Bis(2-chloroethoxy)methane	BRL	330									
Bis(2-chloroethyl)ether	BRL	330									
Bis(2-chloroisopropyl)ether	BRL	330									
Bis(2-ethylhexyl)phthalate	BRL	330									
Butyl benzyl phthalate	BRL	330									
Caprolactam	BRL	330									
Carbazole	BRL	330									
Chrysene	BRL	330									
Di-n-butyl phthalate	BRL	330									
Di-n-octyl phthalate	BRL	330									
Dibenz(a,h)anthracene	BRL	330									
Dibenzofuran	BRL	330									
Diethyl phthalate	BRL	330									
Dimethyl phthalate	BRL	330									
Fluoranthene	BRL	330									
Fluorene	BRL	330									
Hexachlorobenzene	BRL	330									
Hexachlorobutadiene	BRL	330									
Hexachlorocyclopentadiene	BRL	660									

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Client:** Environmental Planning Specialists, Inc.  
**Project Name:** PPC  
**Workorder:** 1506C34

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 208413**

Sample ID: <b>MB-208413</b>	Client ID:	Units: <b>ug/Kg</b>	Prep Date: <b>06/12/2015</b>	Run No: <b>293767</b>							
SampleType: <b>MBLK</b>	TestCode: <b>TCL-SEMIVOLATILE ORGANICS SW8270D</b>	BatchID: <b>208413</b>	Analysis Date: <b>06/12/2015</b>	Seq No: <b>6258393</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Hexachloroethane	BRL	330									
Indeno(1,2,3-cd)pyrene	BRL	330									
Isophorone	BRL	330									
N-Nitrosodi-n-propylamine	BRL	330									
N-Nitrosodiphenylamine	BRL	330									
Naphthalene	BRL	330									
Nitrobenzene	BRL	330									
Pentachlorophenol	BRL	1700									
Phenanthrene	BRL	330									
Phenol	BRL	330									
Pyrene	BRL	330									
Surr: 2,4,6-Tribromophenol	2859	0	3333		85.8	41	128				
Surr: 2-Fluorobiphenyl	1371	0	1667		82.3	47	120				
Surr: 2-Fluorophenol	2477	0	3333		74.3	38.3	120				
Surr: 4-Terphenyl-d14	1464	0	1667		87.8	51.4	125				
Surr: Nitrobenzene-d5	1511	0	1667		90.6	40.1	120				
Surr: Phenol-d5	2907	0	3333		87.2	40.3	120				

Sample ID: <b>LCS-208413</b>	Client ID:	Units: <b>ug/Kg</b>	Prep Date: <b>06/12/2015</b>	Run No: <b>293767</b>							
SampleType: <b>LCS</b>	TestCode: <b>TCL-SEMIVOLATILE ORGANICS SW8270D</b>	BatchID: <b>208413</b>	Analysis Date: <b>06/12/2015</b>	Seq No: <b>6258392</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2,4-Dinitrotoluene	3008	330	3333		90.3	56.9	120				
2-Chlorophenol	2687	330	3333		80.6	51	120				
4-Chloro-3-methylphenol	3054	330	3333		91.6	54	120				
4-Nitrophenol	2988	1700	3333		89.6	40.7	120				
Acenaphthene	2757	330	3333		82.7	57.9	120				
N-Nitrosodi-n-propylamine	3486	330	3333		105	56.5	124				

**Qualifiers:**

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Client:** Environmental Planning Specialists, Inc.  
**Project Name:** PPC  
**Workorder:** 1506C34

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 208413**

Sample ID: <b>LCS-208413</b>	Client ID:	Units: <b>ug/Kg</b>	Prep Date: <b>06/12/2015</b>	Run No: <b>293767</b>							
SampleType: <b>LCS</b>	TestCode: <b>TCL-SEMIVOLATILE ORGANICS SW8270D</b>	BatchID: <b>208413</b>	Analysis Date: <b>06/12/2015</b>	Seq No: <b>6258392</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Pentachlorophenol	2314	1700	3333		69.4	41.8	120				
Phenol	2645	330	3333		79.4	50.1	120				
Pyrene	2861	330	3333		85.8	59.4	120				
Surr: 2,4,6-Tribromophenol	2925	0	3333		87.8	41	128				
Surr: 2-Fluorobiphenyl	1357	0	1667		81.4	47	120				
Surr: 2-Fluorophenol	2583	0	3333		77.5	38.3	120				
Surr: 4-Terphenyl-d14	1344	0	1667		80.6	51.4	125				
Surr: Nitrobenzene-d5	1512	0	1667		90.7	40.1	120				
Surr: Phenol-d5	2555	0	3333		76.6	40.3	120				

Sample ID: <b>1506D48-001BMS</b>	Client ID:	Units: <b>ug/Kg-dry</b>	Prep Date: <b>06/12/2015</b>	Run No: <b>293767</b>							
SampleType: <b>MS</b>	TestCode: <b>TCL-SEMIVOLATILE ORGANICS SW8270D</b>	BatchID: <b>208413</b>	Analysis Date: <b>06/12/2015</b>	Seq No: <b>6260525</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2,4-Dinitrotoluene	3240	370	3785		85.6	41.7	120				
2-Chlorophenol	2939	370	3785		77.7	42.9	120				
4-Chloro-3-methylphenol	3357	370	3785		88.7	41.1	120				
4-Nitrophenol	2957	1900	3785		78.1	32	120				
Acenaphthene	3077	370	3785		81.3	51.5	120				
N-Nitrosodi-n-propylamine	3764	370	3785		99.5	50.2	120				
Pentachlorophenol	BRL	1900	3785		47.0	38.4	120				
Phenol	2933	370	3785		77.5	41.5	120				
Pyrene	3323	370	3785	190.0	82.8	45.2	120				
Surr: 2,4,6-Tribromophenol	3087	0	3785		81.6	41	128				
Surr: 2-Fluorobiphenyl	1472	0	1892		77.8	47	120				
Surr: 2-Fluorophenol	2749	0	3785		72.6	38.3	120				
Surr: 4-Terphenyl-d14	1454	0	1892		76.8	51.4	125				
Surr: Nitrobenzene-d5	1618	0	1892		85.5	40.1	120				

**Qualifiers:** > Greater than Result value < Less than Result value B Analyte detected in the associated method blank  
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded  
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix  
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix



**Client:** Environmental Planning Specialists, Inc.  
**Project Name:** PPC  
**Workorder:** 1506C34

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 208413**

Sample ID: <b>1506D48-001BMS</b>	Client ID:	Units: <b>ug/Kg-dry</b>	Prep Date: <b>06/12/2015</b>	Run No: <b>293767</b>							
SampleType: <b>MS</b>	TestCode: <b>TCL-SEMIVOLATILE ORGANICS SW8270D</b>	BatchID: <b>208413</b>	Analysis Date: <b>06/12/2015</b>	Seq No: <b>6260525</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Surr: Phenol-d5	3485	0	3785		92.1	40.3	120				
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Sample ID: <b>1506D48-001BMSD</b>	Client ID:	Units: <b>ug/Kg-dry</b>	Prep Date: <b>06/12/2015</b>	Run No: <b>293767</b>							
SampleType: <b>MSD</b>	TestCode: <b>TCL-SEMIVOLATILE ORGANICS SW8270D</b>	BatchID: <b>208413</b>	Analysis Date: <b>06/12/2015</b>	Seq No: <b>6260526</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2,4-Dinitrotoluene	3101	370	3785		81.9	41.7	120	3240	4.37	33.1	
2-Chlorophenol	2815	370	3785		74.4	42.9	120	2939	4.31	30.7	
4-Chloro-3-methylphenol	3235	370	3785		85.5	41.1	120	3357	3.71	40.5	
4-Nitrophenol	2793	1900	3785		73.8	32	120	2957	5.71	37.9	
Acenaphthene	2936	370	3785		77.6	51.5	120	3077	4.67	26.3	
N-Nitrosodi-n-propylamine	3688	370	3785		97.4	50.2	120	3764	2.05	34.9	
Pentachlorophenol	BRL	1900	3785		41.6	38.4	120	1780	0	35.9	
Phenol	2843	370	3785		75.1	41.5	120	2933	3.11	37.4	
Pyrene	3158	370	3785	190.0	78.4	45.2	120	3323	5.10	35	
Surr: 2,4,6-Tribromophenol	2952	0	3785		78.0	41	128	3087	0	0	
Surr: 2-Fluorobiphenyl	1374	0	1892		72.6	47	120	1472	0	0	
Surr: 2-Fluorophenol	2606	0	3785		68.8	38.3	120	2749	0	0	
Surr: 4-Terphenyl-d14	1361	0	1892		71.9	51.4	125	1454	0	0	
Surr: Nitrobenzene-d5	1537	0	1892		81.2	40.1	120	1618	0	0	
Surr: Phenol-d5	3305	0	3785		87.3	40.3	120	3485	0	0	

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Client:** Environmental Planning Specialists, Inc.  
**Project Name:** PPC  
**Workorder:** 1506C34

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 208676**

Sample ID: <b>MB-208676</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>06/15/2015</b>	Run No: <b>293925</b>							
SampleType: <b>MBLK</b>	TestCode: <b>TCL-SEMIVOLATILE ORGANICS SW8270D</b>	BatchID: <b>208676</b>	Analysis Date: <b>06/15/2015</b>	Seq No: <b>6262352</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1'-Biphenyl	BRL	10									
2,4,5-Trichlorophenol	BRL	25									
2,4,6-Trichlorophenol	BRL	10									
2,4-Dichlorophenol	BRL	10									
2,4-Dimethylphenol	BRL	10									
2,4-Dinitrophenol	BRL	25									
2,4-Dinitrotoluene	BRL	10									
2,6-Dinitrotoluene	BRL	10									
2-Chloronaphthalene	BRL	10									
2-Chlorophenol	BRL	10									
2-Methylnaphthalene	BRL	10									
2-Methylphenol	BRL	10									
2-Nitroaniline	BRL	25									
2-Nitrophenol	BRL	10									
3,3'-Dichlorobenzidine	BRL	10									
3-Nitroaniline	BRL	25									
4,6-Dinitro-2-methylphenol	BRL	25									
4-Bromophenyl phenyl ether	BRL	10									
4-Chloro-3-methylphenol	BRL	10									
4-Chloroaniline	BRL	10									
4-Chlorophenyl phenyl ether	BRL	10									
4-Methylphenol	BRL	10									
4-Nitroaniline	BRL	25									
4-Nitrophenol	BRL	25									
Acenaphthene	BRL	10									
Acenaphthylene	BRL	10									
Acetophenone	BRL	10									

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Client:** Environmental Planning Specialists, Inc.  
**Project Name:** PPC  
**Workorder:** 1506C34

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 208676**

Sample ID: <b>MB-208676</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>06/15/2015</b>	Run No: <b>293925</b>							
SampleType: <b>MBLK</b>	TestCode: <b>TCL-SEMIVOLATILE ORGANICS SW8270D</b>	BatchID: <b>208676</b>	Analysis Date: <b>06/15/2015</b>	Seq No: <b>6262352</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Anthracene	BRL	10									
Atrazine	BRL	10									
Benz(a)anthracene	BRL	10									
Benzaldehyde	BRL	10									
Benzo(a)pyrene	BRL	10									
Benzo(b)fluoranthene	BRL	10									
Benzo(g,h,i)perylene	BRL	10									
Benzo(k)fluoranthene	BRL	10									
Bis(2-chloroethoxy)methane	BRL	10									
Bis(2-chloroethyl)ether	BRL	10									
Bis(2-chloroisopropyl)ether	BRL	10									
Bis(2-ethylhexyl)phthalate	BRL	10									
Butyl benzyl phthalate	BRL	10									
Caprolactam	BRL	10									
Carbazole	BRL	10									
Chrysene	BRL	10									
Di-n-butyl phthalate	BRL	10									
Di-n-octyl phthalate	BRL	10									
Dibenz(a,h)anthracene	BRL	10									
Dibenzofuran	BRL	10									
Diethyl phthalate	BRL	10									
Dimethyl phthalate	BRL	10									
Fluoranthene	BRL	10									
Fluorene	BRL	10									
Hexachlorobenzene	BRL	10									
Hexachlorobutadiene	BRL	10									
Hexachlorocyclopentadiene	BRL	10									

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Client:** Environmental Planning Specialists, Inc.  
**Project Name:** PPC  
**Workorder:** 1506C34

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 208676**

Sample ID: <b>MB-208676</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>06/15/2015</b>	Run No: <b>293925</b>							
SampleType: <b>MBLK</b>	TestCode: <b>TCL-SEMIVOLATILE ORGANICS SW8270D</b>	BatchID: <b>208676</b>	Analysis Date: <b>06/15/2015</b>	Seq No: <b>6262352</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Hexachloroethane	BRL	10									
Indeno(1,2,3-cd)pyrene	BRL	10									
Isophorone	BRL	10									
N-Nitrosodi-n-propylamine	BRL	10									
N-Nitrosodiphenylamine	BRL	10									
Naphthalene	BRL	10									
Nitrobenzene	BRL	10									
Pentachlorophenol	BRL	25									
Phenanthrene	BRL	10									
Phenol	BRL	10									
Pyrene	BRL	10									
Surr: 2,4,6-Tribromophenol	98.93	0	100.0		98.9	52	133				
Surr: 2-Fluorobiphenyl	47.01	0	50.00		94.0	50	121				
Surr: 2-Fluorophenol	61.60	0	100.0		61.6	27.5	120				
Surr: 4-Terphenyl-d14	52.67	0	50.00		105	46.3	137				
Surr: Nitrobenzene-d5	45.79	0	50.00		91.6	41.2	121				
Surr: Phenol-d5	41.84	0	100.0		41.8	14.3	120				

Sample ID: <b>LCS-208676</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>06/15/2015</b>	Run No: <b>293925</b>							
SampleType: <b>LCS</b>	TestCode: <b>TCL-SEMIVOLATILE ORGANICS SW8270D</b>	BatchID: <b>208676</b>	Analysis Date: <b>06/15/2015</b>	Seq No: <b>6262963</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2,4-Dinitrotoluene	106.2	10	100.0		106	69.9	127				
2-Chlorophenol	91.55	10	100.0		91.6	59.8	120				
4-Chloro-3-methylphenol	110.1	10	100.0		110	65.7	126				
4-Nitrophenol	47.60	25	100.0		47.6	21	120				
Acenaphthene	102.6	10	100.0		103	68.2	124				
N-Nitrosodi-n-propylamine	104.0	10	100.0		104	60.3	138				

**Qualifiers:** > Greater than Result value < Less than Result value B Analyte detected in the associated method blank  
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded  
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix  
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

**Client:** Environmental Planning Specialists, Inc.  
**Project Name:** PPC  
**Workorder:** 1506C34

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 208676**

Sample ID: <b>LCS-208676</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>06/15/2015</b>	Run No: <b>293925</b>							
SampleType: <b>LCS</b>	TestCode: <b>TCL-SEMIVOLATILE ORGANICS SW8270D</b>	BatchID: <b>208676</b>	Analysis Date: <b>06/15/2015</b>	Seq No: <b>6262963</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Pentachlorophenol	75.80	25	100.0		75.8	50.2	136				
Phenol	48.90	10	100.0		48.9	25.6	120				
Pyrene	121.0	10	100.0		121	70.1	124				
Surr: 2,4,6-Tribromophenol	106.3	0	100.0		106	52	133				
Surr: 2-Fluorobiphenyl	50.52	0	50.00		101	50	121				
Surr: 2-Fluorophenol	68.06	0	100.0		68.1	27.5	120				
Surr: 4-Terphenyl-d14	56.25	0	50.00		112	46.3	137				
Surr: Nitrobenzene-d5	44.28	0	50.00		88.6	41.2	121				
Surr: Phenol-d5	49.53	0	100.0		49.5	14.3	120				

Sample ID: <b>1506C34-008BMS</b>	Client ID: <b>15160-MW-5</b>	Units: <b>ug/L</b>	Prep Date: <b>06/15/2015</b>	Run No: <b>293925</b>							
SampleType: <b>MS</b>	TestCode: <b>TCL-SEMIVOLATILE ORGANICS SW8270D</b>	BatchID: <b>208676</b>	Analysis Date: <b>06/15/2015</b>	Seq No: <b>6262966</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2,4-Dinitrotoluene	99.47	10	100.0		99.5	50.5	120				
2-Chlorophenol	85.88	10	100.0		85.9	51.4	120				
4-Chloro-3-methylphenol	110.6	10	100.0		111	50	121				
4-Nitrophenol	61.09	25	100.0		61.1	23.7	120				
Acenaphthene	98.86	10	100.0		98.9	53.9	120				
N-Nitrosodi-n-propylamine	97.21	10	100.0		97.2	52.6	122				
Pentachlorophenol	77.18	25	100.0		77.2	42.1	134				
Phenol	57.67	10	100.0		57.7	31	120				
Pyrene	106.5	10	100.0		106	53	112				
Surr: 2,4,6-Tribromophenol	107.0	0	100.0		107	52	133				
Surr: 2-Fluorobiphenyl	49.26	0	50.00		98.5	50	121				
Surr: 2-Fluorophenol	68.17	0	100.0		68.2	27.5	120				
Surr: 4-Terphenyl-d14	52.19	0	50.00		104	46.3	137				
Surr: Nitrobenzene-d5	48.17	0	50.00		96.3	41.2	121				

**Qualifiers:** > Greater than Result value < Less than Result value B Analyte detected in the associated method blank  
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded  
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix  
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Environmental Planning Specialists, Inc.  
 Project Name: PPC  
 Workorder: 1506C34

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 208676

Sample ID: <b>1506C34-008BMS</b>	Client ID: <b>15160-MW-5</b>	Units: <b>ug/L</b>	Prep Date: <b>06/15/2015</b>	Run No: <b>293925</b>							
SampleType: <b>MS</b>	TestCode: <b>TCL-SEMIVOLATILE ORGANICS SW8270D</b>	BatchID: <b>208676</b>	Analysis Date: <b>06/15/2015</b>	Seq No: <b>6262966</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Surr: Phenol-d5	58.42	0	100.0		58.4	14.3	120				
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Sample ID: <b>1506C34-008BMSD</b>	Client ID: <b>15160-MW-5</b>	Units: <b>ug/L</b>	Prep Date: <b>06/15/2015</b>	Run No: <b>293925</b>							
SampleType: <b>MSD</b>	TestCode: <b>TCL-SEMIVOLATILE ORGANICS SW8270D</b>	BatchID: <b>208676</b>	Analysis Date: <b>06/15/2015</b>	Seq No: <b>6262967</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

2,4-Dinitrotoluene	103.6	10	100.0		104	50.5	120	99.47	4.05	24.4	
2-Chlorophenol	98.29	10	100.0		98.3	51.4	120	85.88	13.5	27.3	
4-Chloro-3-methylphenol	115.8	10	100.0		116	50	121	110.6	4.58	26.5	
4-Nitrophenol	66.43	25	100.0		66.4	23.7	120	61.09	8.38	45.1	
Acenaphthene	103.4	10	100.0		103	53.9	120	98.86	4.49	22.5	
N-Nitrosodi-n-propylamine	106.4	10	100.0		106	52.6	122	97.21	9.00	28.9	
Pentachlorophenol	83.82	25	100.0		83.8	42.1	134	77.18	8.25	28.3	
Phenol	67.03	10	100.0		67.0	31	120	57.67	15.0	31.9	
Pyrene	111.4	10	100.0		111	53	112	106.5	4.53	22.3	
Surr: 2,4,6-Tribromophenol	111.6	0	100.0		112	52	133	107.0	0	0	
Surr: 2-Fluorobiphenyl	52.73	0	50.00		105	50	121	49.26	0	0	
Surr: 2-Fluorophenol	80.41	0	100.0		80.4	27.5	120	68.17	0	0	
Surr: 4-Terphenyl-d14	55.37	0	50.00		111	46.3	137	52.19	0	0	
Surr: Nitrobenzene-d5	49.10	0	50.00		98.2	41.2	121	48.17	0	0	
Surr: Phenol-d5	70.33	0	100.0		70.3	14.3	120	58.42	0	0	

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
		Rpt Lim Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Environmental Planning Specialists, Inc.  
 Project Name: PPC  
 Workorder: 1506C34

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 208701

Sample ID: <b>MB-208701</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>06/12/2015</b>	Run No: <b>293889</b>							
SampleType: <b>MBLK</b>	TestCode: <b>METALS, TOTAL SW6010C</b>	BatchID: <b>208701</b>	Analysis Date: <b>06/15/2015</b>	Seq No: <b>6261455</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	BRL	0.0500									
Barium	BRL	0.0200									
Cadmium	BRL	0.0050									
Chromium	BRL	0.0100									
Lead	BRL	0.0100									
Nickel	BRL	0.0200									
Potassium	BRL	0.500									
Selenium	BRL	0.0200									
Silver	BRL	0.0100									
Vanadium	BRL	0.0100									
Zinc	BRL	0.0200									

Sample ID: <b>MB-208701</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>06/12/2015</b>	Run No: <b>294251</b>							
SampleType: <b>MBLK</b>	TestCode: <b>METALS, TOTAL SW6010C</b>	BatchID: <b>208701</b>	Analysis Date: <b>06/18/2015</b>	Seq No: <b>6269950</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Phosphorus	BRL	0.100									
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Sample ID: <b>LCS-208701</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>06/12/2015</b>	Run No: <b>293889</b>							
SampleType: <b>LCS</b>	TestCode: <b>METALS, TOTAL SW6010C</b>	BatchID: <b>208701</b>	Analysis Date: <b>06/15/2015</b>	Seq No: <b>6261456</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	1.049	0.0500	1.000	0.003365	105	80	120				
Barium	1.032	0.0200	1.000		103	80	120				
Cadmium	1.038	0.0050	1.000		104	80	120				
Chromium	1.027	0.0100	1.000	0.0004570	103	80	120				
Lead	1.033	0.0100	1.000		103	80	120				
Nickel	1.034	0.0200	1.000		103	80	120				

**Qualifiers:** > Greater than Result value < Less than Result value B Analyte detected in the associated method blank  
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded  
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix  
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

**Client:** Environmental Planning Specialists, Inc.  
**Project Name:** PPC  
**Workorder:** 1506C34

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 208701**

Sample ID: <b>LCS-208701</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>06/12/2015</b>	Run No: <b>293889</b>							
SampleType: <b>LCS</b>	TestCode: <b>METALS, TOTAL SW6010C</b>	BatchID: <b>208701</b>	Analysis Date: <b>06/15/2015</b>	Seq No: <b>6261456</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Potassium	10.30	0.500	10.00		103	80	120				
Selenium	1.044	0.0200	1.000		104	80	120				
Silver	0.1024	0.0100	0.1000		102	80	120				
Vanadium	1.035	0.0100	1.000		104	80	120				
Zinc	1.038	0.0200	1.000		104	80	120				

Sample ID: <b>LCS-208701</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>06/12/2015</b>	Run No: <b>294251</b>							
SampleType: <b>LCS</b>	TestCode: <b>METALS, TOTAL SW6010C</b>	BatchID: <b>208701</b>	Analysis Date: <b>06/18/2015</b>	Seq No: <b>6269951</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Phosphorus	1.086	0.100	1.000		109	80	120				
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Sample ID: <b>1506C34-001CMS</b>	Client ID: <b>15161-SW-1</b>	Units: <b>mg/L</b>	Prep Date: <b>06/12/2015</b>	Run No: <b>293889</b>							
SampleType: <b>MS</b>	TestCode: <b>METALS, TOTAL SW6010C</b>	BatchID: <b>208701</b>	Analysis Date: <b>06/15/2015</b>	Seq No: <b>6261458</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	1.044	0.0500	1.000	0.01063	103	75	125				
Barium	1.031	0.0200	1.000	0.04572	98.6	75	125				
Cadmium	0.9997	0.0050	1.000		100.0	75	125				
Chromium	1.012	0.0100	1.000	0.01783	99.4	75	125				
Lead	0.9855	0.0100	1.000		98.6	75	125				
Nickel	0.9909	0.0200	1.000	0.001736	98.9	75	125				
Potassium	17.54	0.500	10.00	7.769	97.7	75	125				
Selenium	1.022	0.0200	1.000	0.009006	101	75	125				
Silver	0.09829	0.0100	0.1000		98.3	75	125				
Vanadium	1.006	0.0100	1.000	0.003251	100	75	125				
Zinc	1.037	0.0200	1.000	0.03700	100.0	75	125				

**Qualifiers:** > Greater than Result value < Less than Result value B Analyte detected in the associated method blank  
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded  
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix  
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix



Client: Environmental Planning Specialists, Inc.  
 Project Name: PPC  
 Workorder: 1506C34

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 208701

Sample ID: <b>1506C34-001CMS</b>	Client ID: <b>15161-SW-1</b>	Units: <b>mg/L</b>	Prep Date: <b>06/12/2015</b>	Run No: <b>294251</b>							
SampleType: <b>MS</b>	TestCode: <b>METALS, TOTAL SW6010C</b>	BatchID: <b>208701</b>	Analysis Date: <b>06/18/2015</b>	Seq No: <b>6269955</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Phosphorus 1.323 0.100 1.000 0.1972 113 75 125

Sample ID: <b>1506C34-001CMSD</b>	Client ID: <b>15161-SW-1</b>	Units: <b>mg/L</b>	Prep Date: <b>06/12/2015</b>	Run No: <b>293889</b>							
SampleType: <b>MSD</b>	TestCode: <b>METALS, TOTAL SW6010C</b>	BatchID: <b>208701</b>	Analysis Date: <b>06/15/2015</b>	Seq No: <b>6261459</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	1.029	0.0500	1.000	0.01063	102	75	125	1.044	1.49	20
Barium	1.018	0.0200	1.000	0.04572	97.3	75	125	1.031	1.28	20
Cadmium	0.9919	0.0050	1.000		99.2	75	125	0.9997	0.788	20
Chromium	0.9985	0.0100	1.000	0.01783	98.1	75	125	1.012	1.30	20
Lead	0.9742	0.0100	1.000		97.4	75	125	0.9855	1.16	20
Nickel	0.9784	0.0200	1.000	0.001736	97.7	75	125	0.9909	1.26	20
Potassium	17.31	0.500	10.00	7.769	95.4	75	125	17.54	1.31	20
Selenium	1.015	0.0200	1.000	0.009006	101	75	125	1.022	0.650	20
Silver	0.09697	0.0100	0.1000		97.0	75	125	0.09829	1.34	20
Vanadium	0.9932	0.0100	1.000	0.003251	99.0	75	125	1.006	1.30	20
Zinc	1.022	0.0200	1.000	0.03700	98.5	75	125	1.037	1.50	20

Sample ID: <b>1506C34-001CMSD</b>	Client ID: <b>15161-SW-1</b>	Units: <b>mg/L</b>	Prep Date: <b>06/12/2015</b>	Run No: <b>294251</b>							
SampleType: <b>MSD</b>	TestCode: <b>METALS, TOTAL SW6010C</b>	BatchID: <b>208701</b>	Analysis Date: <b>06/18/2015</b>	Seq No: <b>6269956</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Phosphorus 1.321 0.100 1.000 0.1972 112 75 125 1.323 0.120 20

**Qualifiers:** > Greater than Result value < Less than Result value B Analyte detected in the associated method blank  
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded  
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix  
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

**Client:** Environmental Planning Specialists, Inc.  
**Project Name:** PPC  
**Workorder:** 1506C34

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 208707**

Sample ID: <b>MB-208707</b>	Client ID:	Units: <b>mg/Kg</b>	Prep Date: <b>06/12/2015</b>	Run No: <b>293816</b>							
SampleType: <b>MBLK</b>	TestCode: <b>METALS, TOTAL SW6010C</b>	BatchID: <b>208707</b>	Analysis Date: <b>06/13/2015</b>	Seq No: <b>6259951</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	BRL	5.00									
Barium	BRL	5.00									
Cadmium	BRL	2.50									
Chromium	BRL	2.50									
Lead	BRL	5.00									
Nickel	BRL	5.00									
Selenium	BRL	5.00									
Silver	BRL	2.50									
Zinc	BRL	5.00									

Sample ID: <b>MB-208707</b>	Client ID:	Units: <b>mg/Kg</b>	Prep Date: <b>06/12/2015</b>	Run No: <b>293994</b>							
SampleType: <b>MBLK</b>	TestCode: <b>METALS, TOTAL SW6010C</b>	BatchID: <b>208707</b>	Analysis Date: <b>06/15/2015</b>	Seq No: <b>6264047</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Phosphorus	BRL	25.0									
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Sample ID: <b>LCS-208707</b>	Client ID:	Units: <b>mg/Kg</b>	Prep Date: <b>06/12/2015</b>	Run No: <b>293816</b>							
SampleType: <b>LCS</b>	TestCode: <b>METALS, TOTAL SW6010C</b>	BatchID: <b>208707</b>	Analysis Date: <b>06/13/2015</b>	Seq No: <b>6259952</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	48.44	5.00	50.00		96.9	80	120				
Barium	52.66	5.00	50.00		105	80	120				
Cadmium	50.38	2.50	50.00		101	80	120				
Chromium	54.03	2.50	50.00	0.1420	108	80	120				
Lead	51.08	5.00	50.00		102	80	120				
Nickel	51.78	5.00	50.00	0.1030	103	80	120				
Selenium	43.56	5.00	50.00		87.1	80	120				
Silver	4.955	2.50	5.000		99.1	80	120				

**Qualifiers:** > Greater than Result value      < Less than Result value      B Analyte detected in the associated method blank  
 BRL Below reporting limit      E Estimated (value above quantitation range)      H Holding times for preparation or analysis exceeded  
 J Estimated value detected below Reporting Limit      N Analyte not NELAC certified      R RPD outside limits due to matrix  
 Rpt Lim Reporting Limit      S Spike Recovery outside limits due to matrix

Client: Environmental Planning Specialists, Inc.  
 Project Name: PPC  
 Workorder: 1506C34

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 208707

Sample ID: <b>LCS-208707</b>	Client ID:	Units: <b>mg/Kg</b>	Prep Date: <b>06/12/2015</b>	Run No: <b>293816</b>							
SampleType: <b>LCS</b>	TestCode: <b>METALS, TOTAL SW6010C</b>	BatchID: <b>208707</b>	Analysis Date: <b>06/13/2015</b>	Seq No: <b>6259952</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Zinc 52.55 5.00 50.00 105 80 120

Sample ID: <b>LCS-208707</b>	Client ID:	Units: <b>mg/Kg</b>	Prep Date: <b>06/12/2015</b>	Run No: <b>293994</b>							
SampleType: <b>LCS</b>	TestCode: <b>METALS, TOTAL SW6010C</b>	BatchID: <b>208707</b>	Analysis Date: <b>06/15/2015</b>	Seq No: <b>6264048</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Phosphorus 50.19 25.0 50.00 0.8357 98.7 80 120

Sample ID: <b>1506C02-001BMS</b>	Client ID:	Units: <b>mg/Kg-dry</b>	Prep Date: <b>06/12/2015</b>	Run No: <b>293816</b>							
SampleType: <b>MS</b>	TestCode: <b>METALS, TOTAL SW6010C</b>	BatchID: <b>208707</b>	Analysis Date: <b>06/13/2015</b>	Seq No: <b>6259954</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	47.00	5.71	57.08	0.2464	81.9	75	125				
Barium	212.3	5.71	57.08	167.5	78.6	75	125				
Cadmium	53.70	2.85	57.08	0.1409	93.8	75	125				
Chromium	72.60	2.85	57.08	17.84	95.9	75	125				
Lead	60.65	5.71	57.08	23.14	65.7	75	125				S
Nickel	57.46	5.71	57.08	9.550	83.9	75	125				
Selenium	38.52	5.71	57.08		67.5	75	125				S
Silver	5.209	2.85	5.708		91.3	75	125				
Zinc	98.99	5.71	57.08	53.74	79.3	75	125				

Sample ID: <b>1506C02-001BMS</b>	Client ID:	Units: <b>mg/Kg-dry</b>	Prep Date: <b>06/12/2015</b>	Run No: <b>293994</b>							
SampleType: <b>MS</b>	TestCode: <b>METALS, TOTAL SW6010C</b>	BatchID: <b>208707</b>	Analysis Date: <b>06/15/2015</b>	Seq No: <b>6264050</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Phosphorus 417.4 28.5 57.08 360.4 99.9 75 125

**Qualifiers:** > Greater than Result value < Less than Result value B Analyte detected in the associated method blank  
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded  
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix  
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Environmental Planning Specialists, Inc.  
 Project Name: PPC  
 Workorder: 1506C34

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 208707

Sample ID: <b>1506C02-001BMSD</b>	Client ID:	Units: <b>mg/Kg-dry</b>	Prep Date: <b>06/12/2015</b>	Run No: <b>293816</b>							
SampleType: <b>MSD</b>	TestCode: <b>METALS, TOTAL SW6010C</b>	BatchID: <b>208707</b>	Analysis Date: <b>06/13/2015</b>	Seq No: <b>6259957</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Arsenic	47.55	5.71	57.08	0.2464	82.9	75	125	47.00	1.16	20	
Barium	224.8	5.71	57.08	167.5	100	75	125	212.3	5.70	20	
Cadmium	54.21	2.85	57.08	0.1409	94.7	75	125	53.70	0.944	20	
Chromium	70.21	2.85	57.08	17.84	91.8	75	125	72.60	3.35	20	
Lead	59.59	5.71	57.08	23.14	63.9	75	125	60.65	1.76	20	S
Nickel	57.05	5.71	57.08	9.550	83.2	75	125	57.46	0.718	20	
Selenium	39.62	5.71	57.08		69.4	75	125	38.52	2.79	20	S
Silver	5.248	2.85	5.708		92.0	75	125	5.209	0.742	20	
Zinc	100.1	5.71	57.08	53.74	81.3	75	125	98.99	1.14	20	

Sample ID: <b>1506C02-001BMSD</b>	Client ID:	Units: <b>mg/Kg-dry</b>	Prep Date: <b>06/12/2015</b>	Run No: <b>293994</b>							
SampleType: <b>MSD</b>	TestCode: <b>METALS, TOTAL SW6010C</b>	BatchID: <b>208707</b>	Analysis Date: <b>06/15/2015</b>	Seq No: <b>6264051</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Phosphorus	400.8	28.5	57.08	360.4	70.7	75	125	417.4	4.07	20	S
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**Qualifiers:**

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Client:** Environmental Planning Specialists, Inc.  
**Project Name:** PPC  
**Workorder:** 1506C34

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 208722**

Sample ID: <b>MB-208722</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>06/12/2015</b>	Run No: <b>293741</b>							
SampleType: <b>MBLK</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>208722</b>	Analysis Date: <b>06/12/2015</b>	Seq No: <b>6258921</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Client:** Environmental Planning Specialists, Inc.  
**Project Name:** PPC  
**Workorder:** 1506C34

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 208722**

Sample ID: <b>MB-208722</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>06/12/2015</b>	Run No: <b>293741</b>							
SampleType: <b>MBLK</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>208722</b>	Analysis Date: <b>06/12/2015</b>	Seq No: <b>6258921</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	50.64	0	50.00		101	70.6	123				
Surr: Dibromofluoromethane	49.44	0	50.00		98.9	78.7	124				
Surr: Toluene-d8	51.53	0	50.00		103	81.3	120				

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Environmental Planning Specialists, Inc.  
 Project Name: PPC  
 Workorder: 1506C34

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 208722

Sample ID: <b>LCS-208722</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>06/12/2015</b>	Run No: <b>293741</b>							
SampleType: <b>LCS</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>208722</b>	Analysis Date: <b>06/12/2015</b>	Seq No: <b>6258920</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	60.40	5.0	50.00		121	64.2	137				
Benzene	55.37	5.0	50.00		111	72.8	128				
Chlorobenzene	49.48	5.0	50.00		99.0	72.3	126				
Toluene	53.35	5.0	50.00		107	74.9	127				
Trichloroethene	56.22	5.0	50.00		112	70.5	134				
Surr: 4-Bromofluorobenzene	49.75	0	50.00		99.5	70.6	123				
Surr: Dibromofluoromethane	49.68	0	50.00		99.4	78.7	124				
Surr: Toluene-d8	50.14	0	50.00		100	81.3	120				

Sample ID: <b>1506C03-002AMS</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>06/12/2015</b>	Run No: <b>293741</b>							
SampleType: <b>MS</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>208722</b>	Analysis Date: <b>06/12/2015</b>	Seq No: <b>6258929</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	61.55	5.0	50.00		123	60.5	156				
Benzene	57.09	5.0	50.00		114	70	135				
Chlorobenzene	50.61	5.0	50.00		101	70.5	132				
Toluene	54.89	5.0	50.00		110	70.5	137				
Trichloroethene	55.67	5.0	50.00		111	71.8	139				
Surr: 4-Bromofluorobenzene	48.88	0	50.00		97.8	70.6	123				
Surr: Dibromofluoromethane	47.66	0	50.00		95.3	78.7	124				
Surr: Toluene-d8	51.56	0	50.00		103	81.3	120				

Sample ID: <b>1506C03-002AMSD</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>06/12/2015</b>	Run No: <b>293741</b>							
SampleType: <b>MSD</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>208722</b>	Analysis Date: <b>06/12/2015</b>	Seq No: <b>6258930</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	58.62	5.0	50.00		117	60.5	156	61.55	4.88	20	
Benzene	55.00	5.0	50.00		110	70	135	57.09	3.73	20	

**Qualifiers:**

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Environmental Planning Specialists, Inc.  
 Project Name: PPC  
 Workorder: 1506C34

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 208722

Sample ID: 1506C03-002AMSD	Client ID:	Units: ug/L	Prep Date: 06/12/2015	Run No: 293741
SampleType: MSD	TestCode: TCL VOLATILE ORGANICS SW8260B	BatchID: 208722	Analysis Date: 06/12/2015	Seq No: 6258930

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	48.84	5.0	50.00		97.7	70.5	132	50.61	3.56	20	
Toluene	53.08	5.0	50.00		106	70.5	137	54.89	3.35	20	
Trichloroethene	53.61	5.0	50.00		107	71.8	139	55.67	3.77	20	
Surr: 4-Bromofluorobenzene	49.23	0	50.00		98.5	70.6	123	48.88	0	0	
Surr: Dibromofluoromethane	46.17	0	50.00		92.3	78.7	124	47.66	0	0	
Surr: Toluene-d8	50.01	0	50.00		100	81.3	120	51.56	0	0	

**Qualifiers:**

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		



**Client:** Environmental Planning Specialists, Inc.  
**Project Name:** PPC  
**Workorder:** 1506C34

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 208771**

Sample ID: <b>MB-208771</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>06/12/2015</b>	Run No: <b>293828</b>							
SampleType: <b>MBLK</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>208771</b>	Analysis Date: <b>06/13/2015</b>	Seq No: <b>6260258</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Client:** Environmental Planning Specialists, Inc.  
**Project Name:** PPC  
**Workorder:** 1506C34

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 208771**

Sample ID: <b>MB-208771</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>06/12/2015</b>	Run No: <b>293828</b>							
SampleType: <b>MBLK</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>208771</b>	Analysis Date: <b>06/13/2015</b>	Seq No: <b>6260258</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	46.57	0	50.00		93.1	70.6	123				
Surr: Dibromofluoromethane	49.67	0	50.00		99.3	78.7	124				
Surr: Toluene-d8	48.97	0	50.00		97.9	81.3	120				

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Client:** Environmental Planning Specialists, Inc.  
**Project Name:** PPC  
**Workorder:** 1506C34

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 208771**

Sample ID: <b>LCS-208771</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>06/12/2015</b>	Run No: <b>293828</b>							
SampleType: <b>LCS</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>208771</b>	Analysis Date: <b>06/13/2015</b>	Seq No: <b>6260257</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	51.22	5.0	50.00		102	64.2	137				
Benzene	46.26	5.0	50.00		92.5	72.8	128				
Chlorobenzene	40.93	5.0	50.00		81.9	72.3	126				
Toluene	45.04	5.0	50.00		90.1	74.9	127				
Trichloroethene	44.49	5.0	50.00		89.0	70.5	134				
Surr: 4-Bromofluorobenzene	49.19	0	50.00		98.4	70.6	123				
Surr: Dibromofluoromethane	48.73	0	50.00		97.5	78.7	124				
Surr: Toluene-d8	51.10	0	50.00		102	81.3	120				

Sample ID: <b>1506D65-001AMS</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>06/12/2015</b>	Run No: <b>293828</b>							
SampleType: <b>MS</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>208771</b>	Analysis Date: <b>06/13/2015</b>	Seq No: <b>6260261</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	65.83	5.0	50.00		132	60.5	156				
Benzene	60.41	5.0	50.00		121	70	135				
Chlorobenzene	50.56	5.0	50.00		101	70.5	132				
Toluene	59.02	5.0	50.00		118	70.5	137				
Trichloroethene	58.61	5.0	50.00		117	71.8	139				
Surr: 4-Bromofluorobenzene	46.73	0	50.00		93.5	70.6	123				
Surr: Dibromofluoromethane	51.35	0	50.00		103	78.7	124				
Surr: Toluene-d8	52.46	0	50.00		105	81.3	120				

Sample ID: <b>1506D65-001AMSD</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>06/12/2015</b>	Run No: <b>293828</b>							
SampleType: <b>MSD</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>208771</b>	Analysis Date: <b>06/13/2015</b>	Seq No: <b>6260262</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	61.71	5.0	50.00		123	60.5	156	65.83	6.46	20	
Benzene	54.07	5.0	50.00		108	70	135	60.41	11.1	20	

**Qualifiers:** > Greater than Result value < Less than Result value B Analyte detected in the associated method blank  
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded  
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix  
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

**Client:** Environmental Planning Specialists, Inc.  
**Project Name:** PPC  
**Workorder:** 1506C34

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 208771**

Sample ID: <b>1506D65-001AMSD</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>06/12/2015</b>	Run No: <b>293828</b>							
SampleType: <b>MSD</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>208771</b>	Analysis Date: <b>06/13/2015</b>	Seq No: <b>6260262</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlorobenzene	48.38	5.0	50.00		96.8	70.5	132	50.56	4.41	20	
Toluene	52.95	5.0	50.00		106	70.5	137	59.02	10.8	20	
Trichloroethene	52.34	5.0	50.00		105	71.8	139	58.61	11.3	20	
Surr: 4-Bromofluorobenzene	46.24	0	50.00		92.5	70.6	123	46.73	0	0	
Surr: Dibromofluoromethane	47.76	0	50.00		95.5	78.7	124	51.35	0	0	
Surr: Toluene-d8	50.94	0	50.00		102	81.3	120	52.46	0	0	

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Client:** Environmental Planning Specialists, Inc.  
**Project Name:** PPC  
**Workorder:** 1506C34

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 208773**

Sample ID: <b>MB-208773</b>	Client ID:	Units: <b>mg/Kg</b>	Prep Date: <b>06/15/2015</b>	Run No: <b>293922</b>							
SampleType: <b>MBLK</b>	TestCode: <b>TOTAL MERCURY SW7471B</b>	BatchID: <b>208773</b>	Analysis Date: <b>06/15/2015</b>	Seq No: <b>6262358</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury BRL 0.100

Sample ID: <b>LCS-208773</b>	Client ID:	Units: <b>mg/Kg</b>	Prep Date: <b>06/15/2015</b>	Run No: <b>293922</b>							
SampleType: <b>LCS</b>	TestCode: <b>TOTAL MERCURY SW7471B</b>	BatchID: <b>208773</b>	Analysis Date: <b>06/15/2015</b>	Seq No: <b>6262360</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.4061 0.100 0.4000 102 80 120

Sample ID: <b>1506C23-001CMS</b>	Client ID:	Units: <b>mg/Kg-dry</b>	Prep Date: <b>06/15/2015</b>	Run No: <b>293922</b>							
SampleType: <b>MS</b>	TestCode: <b>TOTAL MERCURY SW7471B</b>	BatchID: <b>208773</b>	Analysis Date: <b>06/15/2015</b>	Seq No: <b>6262364</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.4581 0.118 0.4729 0.01584 93.5 70 130

Sample ID: <b>1506C23-001CMSD</b>	Client ID:	Units: <b>mg/Kg-dry</b>	Prep Date: <b>06/15/2015</b>	Run No: <b>293922</b>							
SampleType: <b>MSD</b>	TestCode: <b>TOTAL MERCURY SW7471B</b>	BatchID: <b>208773</b>	Analysis Date: <b>06/15/2015</b>	Seq No: <b>6262367</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.4724 0.118 0.4701 0.01584 97.1 70 130 0.4581 3.09 30

**Qualifiers:** > Greater than Result value < Less than Result value B Analyte detected in the associated method blank  
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded  
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix  
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

**Client:** Environmental Planning Specialists, Inc.  
**Project Name:** PPC  
**Workorder:** 1506C34

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 208832**

Sample ID: <b>MB-208832</b>	Client ID:	Units: <b>ug/Kg</b>	Prep Date: <b>06/15/2015</b>	Run No: <b>293970</b>							
SampleType: <b>MBLK</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>208832</b>	Analysis Date: <b>06/15/2015</b>	Seq No: <b>6263535</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	100									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	10									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Client:** Environmental Planning Specialists, Inc.  
**Project Name:** PPC  
**Workorder:** 1506C34

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 208832**

Sample ID: <b>MB-208832</b>	Client ID:	Units: <b>ug/Kg</b>	Prep Date: <b>06/15/2015</b>	Run No: <b>293970</b>							
SampleType: <b>MBLK</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>208832</b>	Analysis Date: <b>06/15/2015</b>	Seq No: <b>6263535</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	20									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	10									
Surr: 4-Bromofluorobenzene	48.38	0	50.00		96.8	70	128				
Surr: Dibromofluoromethane	54.28	0	50.00		109	78.2	128				
Surr: Toluene-d8	49.72	0	50.00		99.4	76.5	116				

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Client:** Environmental Planning Specialists, Inc.  
**Project Name:** PPC  
**Workorder:** 1506C34

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 208832**

Sample ID: <b>LCS-208832</b>	Client ID:	Units: <b>ug/Kg</b>	Prep Date: <b>06/15/2015</b>	Run No: <b>293970</b>							
SampleType: <b>LCS</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>208832</b>	Analysis Date: <b>06/15/2015</b>	Seq No: <b>6263532</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	64.02	5.0	50.00		128	69.9	145				
Benzene	57.62	5.0	50.00		115	72.3	130				
Chlorobenzene	55.06	5.0	50.00		110	69	130				
Toluene	56.96	5.0	50.00		114	71.1	130				
Trichloroethene	58.37	5.0	50.00		117	71.7	136				
Surr: 4-Bromofluorobenzene	48.25	0	50.00		96.5	70	128				
Surr: Dibromofluoromethane	53.53	0	50.00		107	78.2	128				
Surr: Toluene-d8	49.25	0	50.00		98.5	76.5	116				

Sample ID: <b>1506C34-013AMS</b>	Client ID: <b>15159-SB-1-2</b>	Units: <b>ug/Kg-dry</b>	Prep Date: <b>06/15/2015</b>	Run No: <b>293970</b>							
SampleType: <b>MS</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>208832</b>	Analysis Date: <b>06/15/2015</b>	Seq No: <b>6263533</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	78.33	6.6	66.09		119	56.6	151				
Benzene	73.02	6.6	66.09		110	70.4	130				
Chlorobenzene	68.34	6.6	66.09		103	67.5	132				
Toluene	72.81	6.6	66.09		110	70.4	130				
Trichloroethene	70.31	6.6	66.09		106	70.1	137				
Surr: 4-Bromofluorobenzene	63.79	0	66.09		96.5	70	128				
Surr: Dibromofluoromethane	67.76	0	66.09		103	78.2	128				
Surr: Toluene-d8	64.39	0	66.09		97.4	76.5	116				

Sample ID: <b>1506C34-013AMSD</b>	Client ID: <b>15159-SB-1-2</b>	Units: <b>ug/Kg-dry</b>	Prep Date: <b>06/15/2015</b>	Run No: <b>293970</b>							
SampleType: <b>MSD</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>208832</b>	Analysis Date: <b>06/15/2015</b>	Seq No: <b>6263534</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	79.89	6.6	66.09		121	56.6	151	78.33	1.97	20.4	
Benzene	72.25	6.6	66.09		109	70.4	130	73.02	1.06	16.9	

**Qualifiers:** > Greater than Result value < Less than Result value B Analyte detected in the associated method blank  
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded  
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix  
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix



**Client:** Environmental Planning Specialists, Inc.  
**Project Name:** PPC  
**Workorder:** 1506C34

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 208832**

Sample ID: <b>1506C34-013AMSD</b>	Client ID: <b>15159-SB-1-2</b>	Units: <b>ug/Kg-dry</b>	Prep Date: <b>06/15/2015</b>	Run No: <b>293970</b>
SampleType: <b>MSD</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>208832</b>	Analysis Date: <b>06/15/2015</b>	Seq No: <b>6263534</b>

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	66.58	6.6	66.09		101	67.5	132	68.34	2.61	14.6	
Toluene	69.75	6.6	66.09		106	70.4	130	72.81	4.28	16.6	
Trichloroethene	69.79	6.6	66.09		106	70.1	137	70.31	0.736	17	
Surr: 4-Bromofluorobenzene	65.88	0	66.09		99.7	70	128	63.79	0	0	
Surr: Dibromofluoromethane	70.02	0	66.09		106	78.2	128	67.76	0	0	
Surr: Toluene-d8	63.98	0	66.09		96.8	76.5	116	64.39	0	0	

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: Environmental Planning Specialists, Inc.  
 Project Name: PPC  
 Workorder: 1506C34

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 208854

Sample ID: <b>MB-208854</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>06/16/2015</b>	Run No: <b>294004</b>							
SampleType: <b>MBLK</b>	TestCode: <b>Mercury, Total SW7470A</b>	BatchID: <b>208854</b>	Analysis Date: <b>06/16/2015</b>	Seq No: <b>6264226</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury BRL 0.00020

Sample ID: <b>LCS-208854</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>06/16/2015</b>	Run No: <b>294004</b>							
SampleType: <b>LCS</b>	TestCode: <b>Mercury, Total SW7470A</b>	BatchID: <b>208854</b>	Analysis Date: <b>06/16/2015</b>	Seq No: <b>6264227</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.004484 0.00020 0.0050 89.7 80 120

Sample ID: <b>1506C01-001BMS</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>06/16/2015</b>	Run No: <b>294004</b>							
SampleType: <b>MS</b>	TestCode: <b>Mercury, Total SW7470A</b>	BatchID: <b>208854</b>	Analysis Date: <b>06/16/2015</b>	Seq No: <b>6264229</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.004903 0.00020 0.0050 98.1 70 130

Sample ID: <b>1506C01-001BMSD</b>	Client ID:	Units: <b>mg/L</b>	Prep Date: <b>06/16/2015</b>	Run No: <b>294004</b>							
SampleType: <b>MSD</b>	TestCode: <b>Mercury, Total SW7470A</b>	BatchID: <b>208854</b>	Analysis Date: <b>06/16/2015</b>	Seq No: <b>6264230</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Mercury 0.004610 0.00020 0.0050 92.2 70 130 0.004903 6.15 20

**Qualifiers:** > Greater than Result value < Less than Result value B Analyte detected in the associated method blank  
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded  
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix  
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Environmental Planning Specialists, Inc.  
 Project Name: PPC  
 Workorder: 1506C34

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 208908

Sample ID: <b>MB-208908</b>	Client ID:	Units: <b>ug/Kg</b>	Prep Date: <b>06/16/2015</b>	Run No: <b>294030</b>							
SampleType: <b>MBLK</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>208908</b>	Analysis Date: <b>06/16/2015</b>	Seq No: <b>6264930</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	250									
1,1,2,2-Tetrachloroethane	BRL	250									
1,1,2-Trichloroethane	BRL	250									
1,1-Dichloroethane	BRL	250									
1,1-Dichloroethene	BRL	250									
1,2,4-Trichlorobenzene	BRL	250									
1,2-Dibromo-3-chloropropane	BRL	250									
1,2-Dibromoethane	BRL	250									
1,2-Dichlorobenzene	BRL	250									
1,2-Dichloroethane	BRL	250									
1,2-Dichloropropane	BRL	250									
1,3-Dichlorobenzene	BRL	250									
1,4-Dichlorobenzene	BRL	250									
2-Butanone	BRL	2500									
2-Hexanone	BRL	500									
4-Methyl-2-pentanone	BRL	500									
Acetone	BRL	5000									
Benzene	BRL	250									
Bromodichloromethane	BRL	250									
Bromoform	BRL	250									
Bromomethane	BRL	250									
Carbon disulfide	BRL	500									
Carbon tetrachloride	BRL	250									
Chlorobenzene	BRL	250									
Chloroethane	BRL	500									
Chloroform	BRL	250									
Chloromethane	BRL	500									

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Client:** Environmental Planning Specialists, Inc.  
**Project Name:** PPC  
**Workorder:** 1506C34

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 208908**

Sample ID: <b>MB-208908</b>	Client ID:	Units: <b>ug/Kg</b>	Prep Date: <b>06/16/2015</b>	Run No: <b>294030</b>							
SampleType: <b>MBLK</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>208908</b>	Analysis Date: <b>06/16/2015</b>	Seq No: <b>6264930</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

cis-1,2-Dichloroethene	BRL	250									
cis-1,3-Dichloropropene	BRL	250									
Cyclohexane	BRL	250									
Dibromochloromethane	BRL	250									
Dichlorodifluoromethane	BRL	500									
Ethylbenzene	BRL	250									
Freon-113	BRL	500									
Isopropylbenzene	BRL	250									
m,p-Xylene	BRL	250									
Methyl acetate	BRL	250									
Methyl tert-butyl ether	BRL	250									
Methylcyclohexane	BRL	250									
Methylene chloride	BRL	1000									
o-Xylene	BRL	250									
Styrene	BRL	250									
Tetrachloroethene	BRL	250									
Toluene	BRL	250									
trans-1,2-Dichloroethene	BRL	250									
trans-1,3-Dichloropropene	BRL	250									
Trichloroethene	BRL	250									
Trichlorofluoromethane	BRL	250									
Vinyl chloride	BRL	500									
Surr: 4-Bromofluorobenzene	2177	0	2500		87.1	70	128				
Surr: Dibromofluoromethane	2516	0	2500		101	78.2	128				
Surr: Toluene-d8	2440	0	2500		97.6	76.5	116				

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Client:** Environmental Planning Specialists, Inc.  
**Project Name:** PPC  
**Workorder:** 1506C34

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 208908**

Sample ID: <b>LCS-208908</b>	Client ID:	Units: <b>ug/Kg</b>	Prep Date: <b>06/16/2015</b>	Run No: <b>294030</b>							
SampleType: <b>LCS</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>208908</b>	Analysis Date: <b>06/16/2015</b>	Seq No: <b>6264925</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	2412	250	2500		96.5	69.9	145				
Benzene	2141	250	2500		85.6	72.3	130				
Chlorobenzene	1938	250	2500		77.5	69	130				
Toluene	2070	250	2500		82.8	71.1	130				
Trichloroethene	2086	250	2500		83.5	71.7	136				
Surr: 4-Bromofluorobenzene	2324	0	2500		92.9	70	128				
Surr: Dibromofluoromethane	2500	0	2500		100	78.2	128				
Surr: Toluene-d8	2491	0	2500		99.6	76.5	116				

Sample ID: <b>1506D60-002AMS</b>	Client ID:	Units: <b>ug/Kg-dry</b>	Prep Date: <b>06/16/2015</b>	Run No: <b>294030</b>							
SampleType: <b>MS</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>208908</b>	Analysis Date: <b>06/16/2015</b>	Seq No: <b>6264928</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	41460	3900	39270		106	56.6	151				
Benzene	37220	3900	39270		94.8	70.4	130				
Chlorobenzene	33880	3900	39270		86.3	67.5	132				
Toluene	36100	3900	39270		91.9	70.4	130				
Trichloroethene	35290	3900	39270		89.9	70.1	137				
Surr: 4-Bromofluorobenzene	36920	0	39270		94.0	70	128				
Surr: Dibromofluoromethane	37110	0	39270		94.5	78.2	128				
Surr: Toluene-d8	40230	0	39270		102	76.5	116				

Sample ID: <b>1506D60-002AMSD</b>	Client ID:	Units: <b>ug/Kg-dry</b>	Prep Date: <b>06/16/2015</b>	Run No: <b>294030</b>							
SampleType: <b>MSD</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>208908</b>	Analysis Date: <b>06/16/2015</b>	Seq No: <b>6264929</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	37740	3900	39270		96.1	56.6	151	41460	9.40	20.4	
Benzene	38120	3900	39270		97.1	70.4	130	37220	2.38	16.9	

**Qualifiers:** > Greater than Result value < Less than Result value B Analyte detected in the associated method blank  
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded  
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix  
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

**Client:** Environmental Planning Specialists, Inc.  
**Project Name:** PPC  
**Workorder:** 1506C34

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 208908**

Sample ID: <b>1506D60-002AMSD</b>	Client ID:	Units: <b>ug/Kg-dry</b>	Prep Date: <b>06/16/2015</b>	Run No: <b>294030</b>
SampleType: <b>MSD</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>208908</b>	Analysis Date: <b>06/16/2015</b>	Seq No: <b>6264929</b>

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	34040	3900	39270		86.7	67.5	132	33880	0.463	14.6	
Toluene	36040	3900	39270		91.8	70.4	130	36100	0.152	16.6	
Trichloroethene	36960	3900	39270		94.1	70.1	137	35290	4.63	17	
Surr: 4-Bromofluorobenzene	36190	0	39270		92.2	70	128	36920	0	0	
Surr: Dibromofluoromethane	37720	0	39270		96.0	78.2	128	37110	0	0	
Surr: Toluene-d8	39300	0	39270		100	76.5	116	40230	0	0	

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

## **ALS Laboratory Data''Lwpg**



July 06, 2015

Service Request No:R1504550

Mr. William Crowe  
Environmental Planning Specialists  
1050 Crown Pointe Parkway  
Suite 550  
Atlanta, GA 30338

**Laboratory Results for: PPC**

Dear Mr.Crowe,

Enclosed are the results of the sample(s) submitted to our laboratory June 10, 2015  
For your reference, these analyses have been assigned our service request number **R1504550**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7472. You may also contact me via email at [Janice.Jaeger@alsglobal.com](mailto:Janice.Jaeger@alsglobal.com).

Respectfully submitted,

**ALS Group USA, Corp. dba ALS Environmental**

Janice Jaeger  
Project Manager

ADDRESS 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623  
PHONE +1 585 288 5380 | FAX +1 585 288 8475  
ALS Group USA, Corp.  
dba ALS Environmental



## ALS Environmental

**Client:** EPS  
**Service Request No.:** R1504550  
**Project:** PPC  
**Date Received:** 6/10/15  
**Sample Matrix:** Soil/Water  
**Project/Case No.:**

### CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier II data deliverables. When appropriate to the method, method blank results have been reported with each analytical test. Surrogate recoveries have been reported for all applicable organic analyses. Additional quality control analyses reported herein include: Laboratory Control Sample (LCS).

#### Sample Receipt

Water and soil samples were received for analysis at ALS Environmental on 6/10/15. The samples were received in good condition and consistent with the accompanying chain of custody form. The cooler receipt temperature was 16.8°C, above the 4±2°C guidelines however on ice the same day as received. The samples were stored in a refrigerator between 1°C and 6°C upon receipt at the laboratory.

#### Inorganics

Soil and water samples were analyzed for a site specific list of inorganics. Please see attached report pages for method numbers.

All Laboratory Control Sample (LCS) recoveries were within limits.

Site specific QC was not requested on these samples.

All Method blanks were free of contamination except for a low level detection for the soil Hexavalent chromium. All affected data has been flagged with a "B".

No other analytical or QC problems were encountered.

**Client:** Environmental Planning Specialists  
**Project:** PPC

**Service Request:**R1504550

**SAMPLE CROSS-REFERENCE**

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R1504550-001	15159-SB-12-2	6/8/2015	1335
R1504550-002	15159-SB-8-2	6/8/2015	1445
R1504550-003	15159-SB-7-2	6/8/2015	1531
R1504550-004	15159-SB-6-2	6/8/2015	1611
R1504550-005	15159-SB-5-2	6/8/2015	1653
R1504550-006	15159-SB-1-2	6/8/2015	1717
R1504550-007	15160-SB-11-2	6/9/2015	0807
R1504550-008	15160-SB-10-2	6/9/2015	0823
R1504550-009	15160-SB-9-2	6/9/2015	0814
R1504550-010	15160-SB-2-2	6/9/2015	0839
R1504550-011	15160-SB-3-2	6/9/2015	0847
R1504550-012	15160-SB-4-2	6/9/2015	0859
R1504550-013	15160-MW-6	6/9/2015	1518
R1504550-014	15160-MW-5	6/9/2015	1529
R1504550-015	15160-MW-4	6/9/2015	1547
R1504550-016	15160-MW-3	6/9/2015	1807

## REPORT QUALIFIERS AND DEFINITIONS

<p><b>U</b> Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.</p> <p><b>J</b> Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration &gt;40% difference between two GC columns (pesticides/Aroclors).</p> <p><b>B</b> Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.</p> <p><b>E</b> Inorganics- Concentration is estimated due to the serial dilution was outside control limits.</p> <p><b>E</b> Organics- Concentration has exceeded the calibration range for that specific analysis.</p> <p><b>D</b> Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.</p> <p><b>*</b> Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.</p> <p><b>H</b> Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.</p> <p><b>#</b> Spike was diluted out.</p>	<p><b>+</b> Correlation coefficient for MSA is &lt;0.995.</p> <p><b>N</b> Inorganics- Matrix spike recovery was outside laboratory limits.</p> <p><b>N</b> Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.</p> <p><b>S</b> Concentration has been determined using Method of Standard Additions (MSA).</p> <p><b>W</b> Post-Digestion Spike recovery is outside control limits and the sample absorbance is &lt;50% of the spike absorbance.</p> <p><b>P</b> Concentration &gt;40% (25% for CLP) difference between the two GC columns.</p> <p><b>C</b> Confirmed by GC/MS</p> <p><b>Q</b> DoD reports: indicates a pesticide/Aroclor is not confirmed (&gt;100% Difference between two GC columns).</p> <p><b>X</b> See Case Narrative for discussion.</p> <p><b>MRL</b> Method Reporting Limit. Also known as:</p> <p><b>LOQ</b> Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.</p> <p><b>MDL</b> Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).</p> <p><b>LOD</b> Limit of Detection. A value at or above the MDL which has been verified to be detectable.</p> <p><b>ND</b> Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.</p>
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### Rochester Lab ID # for State Certifications<sup>1</sup>

Connecticut ID # PH0556	Maine ID #NY0032	New Hampshire ID #
Delaware Accredited	Nebraska Accredited	294100 A/B
DoD ELAP #65817	New Jersey ID # NY004	Pennsylvania ID# 68-786
Florida ID # E87674	New York ID # 10145	Rhode Island ID # 158
Illinois ID #200047	North Carolina #676	Virginia #460167

<sup>1</sup> Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads/North-America-Downloads>

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Soil  
**Analysis Method:** ALS SOP

**Service Request:** R1504550  
**Date Collected:** 06/08/15 - 06/09/15  
**Date Received:** 06/10/15  
**Units:** Percent  
**Basis:** As Received

**Total Solids**

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
15159-SB-12-2	R1504550-001	83.5	-	1	06/19/15 10:49	
15159-SB-8-2	R1504550-002	83.6	-	1	06/19/15 10:49	
15159-SB-7-2	R1504550-003	77.7	-	1	06/19/15 10:49	
15159-SB-6-2	R1504550-004	74.6	-	1	06/19/15 10:49	
15159-SB-5-2	R1504550-005	72.4	-	1	06/19/15 10:49	
15159-SB-1-2	R1504550-006	81.4	-	1	06/19/15 10:49	
15160-SB-11-2	R1504550-007	82.5	-	1	06/19/15 10:49	
15160-SB-10-2	R1504550-008	81.8	-	1	06/19/15 10:49	
15160-SB-9-2	R1504550-009	83.8	-	1	06/19/15 10:49	
15160-SB-2-2	R1504550-010	78.7	-	1	06/19/15 10:49	
15160-SB-3-2	R1504550-011	78.5	-	1	06/19/15 10:49	
15160-SB-4-2	R1504550-012	86.5	-	1	06/19/15 10:49	

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Soil  
**Analysis Method:** 7199  
**Prep Method:** EPA 3060A

**Service Request:** R1504550  
**Date Collected:** 06/08/15 - 06/09/15  
**Date Received:** 06/10/15  
**Units:** mg/Kg  
**Basis:** Dry

Chromium, Hexavalent

Sample Name	Lab Code	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
15159-SB-12-2	R1504550-001	0.12 U	0.47	0.12	1	06/17/15 19:09	6/16/15	
15159-SB-12-2	R1504550-001	0.12 U	0.47	0.12	1	06/17/15 19:18	6/16/15	
15159-SB-8-2	R1504550-002	0.12 U	0.47	0.12	1	06/17/15 19:34	6/16/15	
15159-SB-8-2	R1504550-002	0.12 U	0.47	0.12	1	06/17/15 19:25	6/16/15	
15159-SB-7-2	R1504550-003	<b>0.77 B</b>	0.50	0.13	1	06/17/15 19:50	6/16/15	
15159-SB-7-2	R1504550-003	<b>0.77 B</b>	0.50	0.13	1	06/17/15 19:41	6/16/15	
15159-SB-6-2	R1504550-004	<b>0.15 BJ</b>	0.52	0.13	1	06/17/15 21:30	6/16/15	
15159-SB-6-2	R1504550-004	<b>0.16 BJ</b>	0.52	0.13	1	06/17/15 21:21	6/16/15	
15159-SB-5-2	R1504550-005	<b>0.66 B</b>	0.55	0.14	1	06/17/15 21:38	6/16/15	
15159-SB-5-2	R1504550-005	<b>0.67 B</b>	0.55	0.14	1	06/17/15 21:46	6/16/15	
15159-SB-1-2	R1504550-006	<b>0.91 B</b>	0.48	0.12	1	06/17/15 22:20	6/16/15	
15159-SB-1-2	R1504550-006	<b>0.91 B</b>	0.48	0.12	1	06/17/15 22:11	6/16/15	
15160-SB-11-2	R1504550-007	<b>0.13 BJ</b>	0.47	0.12	1	06/17/15 22:36	6/16/15	
15160-SB-11-2	R1504550-007	<b>0.12 BJ</b>	0.47	0.12	1	06/17/15 22:27	6/16/15	
15160-SB-10-2	R1504550-008	<b>0.71 B</b>	0.48	0.12	1	06/17/15 22:52	6/16/15	
15160-SB-10-2	R1504550-008	<b>0.71 B</b>	0.48	0.12	1	06/17/15 22:44	6/16/15	
15160-SB-9-2	R1504550-009	<b>0.85 B</b>	0.46	0.12	1	06/17/15 23:00	6/16/15	
15160-SB-9-2	R1504550-009	<b>0.85 B</b>	0.46	0.12	1	06/17/15 23:09	6/16/15	
15160-SB-2-2	R1504550-010	<b>0.91 B</b>	0.50	0.13	1	06/17/15 23:25	6/16/15	
15160-SB-2-2	R1504550-010	<b>0.91 B</b>	0.50	0.13	1	06/17/15 23:16	6/16/15	
15160-SB-3-2	R1504550-011	<b>0.50 BJ</b>	0.50	0.13	1	06/17/15 23:51	6/16/15	
15160-SB-3-2	R1504550-011	<b>0.49 BJ</b>	0.50	0.13	1	06/18/15 00:00	6/16/15	
15160-SB-4-2	R1504550-012	<b>1.56</b>	0.45	0.12	1	06/18/15 00:16	6/16/15	
15160-SB-4-2	R1504550-012	<b>1.57</b>	0.45	0.12	1	06/18/15 00:07	6/16/15	
Method Blank	R1504550-MB3	<b>0.10 J</b>	0.40	0.10	1	06/17/15 18:19	6/16/15	
Method Blank	R1504550-MB3	0.10 U	0.40	0.10	1	06/17/15 18:28	6/16/15	

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Water  
**Analysis Method:** 218.6 LL

**Service Request:** R1504550  
**Date Collected:** 06/9/15  
**Date Received:** 06/10/15  
**Units:** ug/L  
**Basis:** NA

**Chromium, Hexavalent, Dissolved**

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
15160-MW-6	R1504550-013	<b>0.039</b>	0.020	1	06/16/15 15:20	
15160-MW-5	R1504550-014	0.020 U	0.020	1	06/16/15 15:30	
15160-MW-4	R1504550-015	0.020 U	0.020	1	06/16/15 16:53	
15160-MW-3	R1504550-016	<b>0.111</b>	0.020	1	06/16/15 17:03	
Method Blank	R1504550-MB1	0.020 U	0.020	1	06/16/15 09:07	
Method Blank	R1504550-MB2	0.020 U	0.020	1	06/16/15 16:30	

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Soil

**Service Request:** R1504550  
**Date Analyzed:** 06/17/15

**Lab Control Sample Summary**  
**General Chemistry Parameters**

**Units:**mg/Kg  
**Basis:**Dry

**Lab Control Sample**  
R1504550-LCS1

<b>Analyte Name</b>	<b>Analytical Method</b>	<b>Result</b>	<b>Spike Amount</b>	<b>% Rec</b>	<b>% Rec Limits</b>
Chromium, Hexavalent	7199	668	650	103	80-120
Chromium, Hexavalent	7199	670	650	103	80-120

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Water

**Service Request:** R1504550  
**Date Analyzed:** 06/16/15

**Lab Control Sample Summary**  
**General Chemistry Parameters**

**Units:**ug/L  
**Basis:**NA

**Lab Control Sample**  
R1504550-LCS2

<u>Analyte Name</u>	<u>Analytical Method</u>	<u>Result</u>	<u>Spike Amount</u>	<u>% Rec</u>	<u>% Rec Limits</u>
Chromium, Hexavalent, Dissolved	218.6 LL	0.199	0.200	99	90-110



ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Water

**Service Request:** R1504550  
**Date Analyzed:** 06/16/15

**Lab Control Sample Summary**  
**General Chemistry Parameters**

**Units:**ug/L  
**Basis:**NA

**Lab Control Sample**  
R1504550-LCS3

<u>Analyte Name</u>	<u>Analytical Method</u>	<u>Result</u>	<u>Spike Amount</u>	<u>% Rec</u>	<u>% Rec Limits</u>
Chromium, Hexavalent, Dissolved	218.6 LL	0.206	0.200	103	90-110



# CHAIN OF CUSTODY/LABORATORY

# ANALYSIS REQUEST FORM

26694

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 1 OF 2

Project Name <b>PPC</b>		Project Number		ANALYSIS REQUESTED (Include Method Number and Container Preservative)	
Project Manager <b>William Crowe</b>		Report CC		Preservative <b>8</b>	
Company/Address <b>1050 Crown Pointe Parkway Suite 550 Atlanta, GA 30338</b>		Sample's Printed Name <b>William Crowe</b>		Preservative Key 0. NONE 1. HCl 2. HNO <sub>3</sub> 3. H <sub>2</sub> SO <sub>4</sub> 4. NaOH 5. Zn. Acetate 6. MeOH 7. NaHSO <sub>4</sub> 8. Other <b>ICE</b>	
Phone # <b>404-315-9113</b>		Email <b>WCrowe@envplanning.com</b>		REMARKS/ ALTERNATE DESCRIPTION	
Sample's Signature 		Sample's Printed Name <b>William Crowe</b>			
CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	DATE	SAMPLING TIME	MATRIX	
15159-SB-12-2		6/8/15	1335	SO	Hexavalent Chromium
15159-SB-8-2		6/8/15	1445		X
15159-SB-7-2		6/8/15	1531		X
15159-SB-6-2		6/8/15	1611		X
15159-SB-5-2		6/8/15	1653		X
15159-SB-1-2		6/8/15	1717		X
15160-SB-11-2		6/9/15	0807		X
15160-SB-10-2		6/9/15	0823		X
15160-SB-9-2		6/9/15	0814		X
15160-SB-2-2		6/9/15	0839		X
15160-SB-3-2		6/9/15	0847		X
SPECIAL INSTRUCTIONS/COMMENTS Metals					
Turnaround Requirements RUSH (SURCHARGES APPLY) 1 day ___ 2 day ___ 3 day ___ 4 day <input checked="" type="checkbox"/> 5 day ___		Report Requirements I. Results Only ___ II. Results + CC Summaries (LCS, DUP, MS/MSD as required) ___ III. Results + QC and Calibration Summaries <input checked="" type="checkbox"/> IV. Data Validation Report with Raw Data ___		Invoice Information PO # _____ BILL TO: _____	
Requested Report Date _____		Edata Yes ___ No ___		Relinquished By _____	
Signature _____		Signature _____		Signature _____	
Printed Name _____		Printed Name _____		Printed Name _____	
Firm _____		Firm _____		Firm _____	
Date/Time 6/15/15 1900		Date/Time 6/15/15 0810		Date/Time _____	
See QAPP <input type="checkbox"/>		STATE WHERE SAMPLES WERE COLLECTED <b>Georgia</b>		RECEIVED BY _____	
RELINQUISHED BY _____		RECEIVED BY _____		RECEIVED BY _____	
Signature		Signature		Signature _____	
Printed Name William Crowe		Printed Name William Crowe		Printed Name _____	
Firm EPS, Inc		Firm EPS		Firm _____	
Date/Time 6/15/15 1900		Date/Time 6/15/15 0810		Date/Time _____	
R1504550 Environmental Planning Specialists Hexavalent Chromium		5		RECEIVED BY _____	



# CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

26696

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 2 OF 2

Project Name <b>PPC</b>		Project Number		ANALYSIS REQUESTED (Include Method Number and Container Preservative)	
Project Manager <b>William Crowe</b>		Report CC		PRESERVATIVE	
Company/Address <b>1050 Crown Point Parkway Suite 550 Atlanta, GA 30338</b>		NUMBER OF CONTAINERS		METALS, TOTAL (list in comments below)	
Phone # <b>404-315-9113</b>		DATE		METALS, DISSOLVED (list in comments below)	
Email <b>wcrowe@envplanning.com</b>		TIME		PESTICIDES (list in comments below)	
Sampler's Signature 		SAMPLING		GC VOLS (list in comments below)	
Sampler's Printed Name <b>William Crowe</b>		DATE		GCMS VOLS (list in comments below)	
FOR OFFICE USE ONLY/LAB ID		DATE		GCMS VOLS (list in comments below)	
CLIENT SAMPLE ID		TIME		GCMS VOLS (list in comments below)	
15160-SB-4-2		0859		GCMS VOLS (list in comments below)	
15160-MW-6		1518		GCMS VOLS (list in comments below)	
15160-MW-5		1529		GCMS VOLS (list in comments below)	
15160-MW-4		1547		GCMS VOLS (list in comments below)	
15160-MW-3		1807		GCMS VOLS (list in comments below)	
MATERIALS		MATRIX		REMARKS/ALTERNATE DESCRIPTION	
Hexavalent Chromium		SO		1. NONE	
		GW		2. HCL	
		GW		3. HNO3	
		GW		4. NaOH	
		GW		5. Zn Acetate	
		GW		6. MeOH	
		GW		7. NaHSO4	
		GW		8. Other Ice	
SPECIAL INSTRUCTIONS/COMMENTS <b>Metals</b>		TURNAROUND REQUIREMENTS RUSH (SURCHARGES APPLY) 1 day ___ 2 day ___ 3 day ___ 4 day <u>A</u> 5 day ___		REPORT REQUIREMENTS I. Results Only ___ II. Results + QC Summaries (LCS, DUP, MS/MSD as required) ___ III. Results + QC and Calibration Summaries <u>X</u> IV. Data Validation Report with Raw Data ___	
STATE WHERE SAMPLES WERE COLLECTED <b>Georgia</b>		REQUSTED REPORT DATE		INVOICE INFORMATION PO # BILL TO:	
RECEIVED BY 		RECEIVED BY		RECEIVED BY	
Signature		Signature		Signature	
Printed Name <b>William Crowe</b>		Printed Name		Printed Name	
Firm <b>EPS, Inc.</b>		Firm		Firm	
Date/Time <b>6/9/15 1900</b>		Date/Time <b>6/9/15 0810</b>		Date/Time	



# Cooler Receipt and Preservation Check Form

R1504550

5

Environmental Planning Specialists  
Hexavalent chromium



Project/Client EPS Inc. Folder Number MS-4550

Cooler received on 6/10/15 by: AKS COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	<input checked="" type="radio"/> Y	<input type="radio"/> N
2	Custody papers properly completed (ink, signed)?	<input checked="" type="radio"/> Y	<input type="radio"/> N
3	Did all bottles arrive in good condition (unbroken)?	<input checked="" type="radio"/> Y	<input type="radio"/> N
4	Circle: <u>Wet Ice</u> Dry Ice Gel packs present?	<input checked="" type="radio"/> Y	<input type="radio"/> N

5a	Perchlorate samples have required headspace?	<input type="radio"/> Y	<input type="radio"/> N	<input checked="" type="radio"/> NA
5b	Did VOA vials, Alk, or Sulfide have sig* bubbles?	<input type="radio"/> Y	<input type="radio"/> N	<input checked="" type="radio"/> NA
6	Where did the bottles originate?	<u>ALS/ROO</u>	CLIENT	
7	Soil VOA received as:	Bulk	Encore	5035set <input checked="" type="radio"/> NA

8. Temperature Readings Date: 6/10/15 Time: 0812 ID: IR# IR#5 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>4.9</u>									
Correction Factor (°C)	<u>+0.6</u>									
Corrected Temp (°C)	<u>5.5</u>									
Within 0-6°C?	<input checked="" type="radio"/> Y	<input type="radio"/> N	<input type="radio"/> Y	<input type="radio"/> N	<input type="radio"/> Y	<input type="radio"/> N	<input type="radio"/> Y	<input type="radio"/> N	<input type="radio"/> Y	<input type="radio"/> N

If out of Temperature, note packing/ice condition: \_\_\_\_\_ Ice melted \_\_\_\_\_ Poorly Packed \_\_\_\_\_ Same Day Rule \_\_\_\_\_

& Client Approval to Run Samples: \_\_\_\_\_ Standing Approval \_\_\_\_\_ Client aware at drop-off \_\_\_\_\_ Client notified by: \_\_\_\_\_

All samples held in storage location: Room by AKS on 6/10/15 at 0823  
5035 samples placed in storage location: \_\_\_\_\_ by \_\_\_\_\_ on \_\_\_\_\_ at \_\_\_\_\_

PC Secondary Review: MS/6/11/15

Cooler Breakdown: Date: 6/10/15 Time: 1247 by: AKS

- Were all bottle labels complete (i.e. analysis, preservation, etc.)?  YES  NO
- Did all bottle labels and tags agree with custody papers?  YES  NO
- Were correct containers used for the tests indicated?  YES  NO
- Air Samples: Cassettes / Tubes Intact \_\_\_\_\_ Canisters Pressurized \_\_\_\_\_ Tedlar® Bags Inflated  N/A

Explain any discrepancies:

pH	Reagent	Yes	No	Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
≥12	NaOH								
≤2	HNO <sub>3</sub>								
≤2	H <sub>2</sub> SO <sub>4</sub>								
<4	NaHSO <sub>4</sub>								
Residual Chlorine (-)	For CN Phenol and 522			If +, contact PM to add Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (CN), ascorbic (phenol).					
	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	-	-						
	ZnAcetate	-	-						
	HCl	**	**						

Yes=All samples OK

No=Samples were preserved at The lab as listed

PM OK to Adjust: \_\_\_\_\_

\*\*Not to be tested before analysis – pH tested and recorded by VOAs on a separate worksheet

Bottle lot numbers: 042715-2A10, 011215-1BNS

Other Comments:

218.6-4  
6/11/15  
1518-1807

PC Secondary Review: MS/6/11/15 \*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter



July 06, 2015

Service Request No:R1504622

Mr. William Crowe  
Environmental Planning Specialists  
1050 Crown Pointe Parkway  
Suite 550  
Atlanta, GA 30338

**Laboratory Results for: PPC**

Dear Mr.Crowe,

Enclosed are the results of the sample(s) submitted to our laboratory June 11, 2015  
For your reference, these analyses have been assigned our service request number **R1504622**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7472. You may also contact me via email at [Janice.Jaeger@alsglobal.com](mailto:Janice.Jaeger@alsglobal.com).

Respectfully submitted,

**ALS Group USA, Corp. dba ALS Environmental**

Janice Jaeger  
Project Manager

ADDRESS 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

PHONE +1 585 288 5380 | FAX +1 585 288 8475

ALS Group USA, Corp.

dba ALS Environmental

## CASE NARRATIVE

This report contains analytical results for the following samples:

Service Request Number: R1504622

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R1504622-001	15161-MW-2	6/10/2015	1016
R1504622-002	15161-MW-1	6/10/2015	1213
R1504622-003	15161-SW-1	6/10/2015	1313
R1504622-004	15161-SW-2	6/10/2015	1324
R1504622-005	15161-SW-3	6/10/2015	1334
R1504622-006	15161-SW-4	6/10/2015	1345
R1504622-007	15161-SD-1	6/10/2015	1310
R1504622-008	15161-SD-2	6/10/2015	1320
R1504622-009	15161-SD-3	6/10/2015	1332
R1504622-010	15161-SD-4	6/10/2015	1341
R1504622-011	15161-DUP	6/10/2015	

All samples were received in good condition unless otherwise noted on the cooler receipt and preservation check form located at the end of this report.

All samples were preserved in accordance with approved analytical methods.

All samples have been analyzed by the approved methods cited on the analytical results pages.

All holding times and associated QC were within limits.

No analytical or QC problems were encountered.

All sampling activities performed by ALS personnel have been in accordance with "ALS Field Procedures and Measurements Manual" or by client specifications.

## REPORT QUALIFIERS AND DEFINITIONS

<p><b>U</b> Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.</p> <p><b>J</b> Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration &gt;40% difference between two GC columns (pesticides/Aroclors).</p> <p><b>B</b> Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.</p> <p><b>E</b> Inorganics- Concentration is estimated due to the serial dilution was outside control limits.</p> <p><b>E</b> Organics- Concentration has exceeded the calibration range for that specific analysis.</p> <p><b>D</b> Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.</p> <p><b>*</b> Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.</p> <p><b>H</b> Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.</p> <p><b>#</b> Spike was diluted out.</p>	<p><b>+</b> Correlation coefficient for MSA is &lt;0.995.</p> <p><b>N</b> Inorganics- Matrix spike recovery was outside laboratory limits.</p> <p><b>N</b> Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.</p> <p><b>S</b> Concentration has been determined using Method of Standard Additions (MSA).</p> <p><b>W</b> Post-Digestion Spike recovery is outside control limits and the sample absorbance is &lt;50% of the spike absorbance.</p> <p><b>P</b> Concentration &gt;40% (25% for CLP) difference between the two GC columns.</p> <p><b>C</b> Confirmed by GC/MS</p> <p><b>Q</b> DoD reports: indicates a pesticide/Aroclor is not confirmed (<math>\times 100\%</math> Difference between two GC columns).</p> <p><b>X</b> See Case Narrative for discussion.</p> <p><b>MRL</b> Method Reporting Limit. Also known as:</p> <p><b>LOQ</b> Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.</p> <p><b>MDL</b> Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).</p> <p><b>LOD</b> Limit of Detection. A value at or above the MDL which has been verified to be detectable.</p> <p><b>ND</b> Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.</p>
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### Rochester Lab ID # for State Certifications<sup>1</sup>

Connecticut ID # PH0556	Maine ID #NY0032	New Hampshire ID #
Delaware Accredited	Nebraska Accredited	294100 A/B
DoD ELAP #65817	New Jersey ID # NY004	Pennsylvania ID# 68-786
Florida ID # E87674	New York ID # 10145	Rhode Island ID # 158
Illinois ID #200047	North Carolina #676	Virginia #460167

<sup>1</sup> Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads/North-America-Downloads>

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Soil  
**Analysis Method:** ALS SOP

**Service Request:** R1504622  
**Date Collected:** 06/10/15  
**Date Received:** 06/11/15

**Units:** Percent  
**Basis:** As Received

**Total Solids**

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
15161-SD-1	R1504622-007	41.2	-	1	06/19/15 10:49	
15161-SD-2	R1504622-008	62.1	-	1	06/19/15 10:49	
15161-SD-3	R1504622-009	79.0	-	1	06/19/15 10:49	
15161-SD-4	R1504622-010	54.7	-	1	06/19/15 10:49	



ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Water  
**Analysis Method:** 218.6 LL

**Service Request:** R1504622  
**Date Collected:** 06/10/15  
**Date Received:** 06/11/15  
**Units:** ug/L  
**Basis:** NA

**Chromium, Hexavalent, Dissolved**

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
15161-MW-2	R1504622-001	0.020 U	0.020	1	06/16/15 17:13	
15161-MW-1	R1504622-002	<b>0.047</b>	0.020	1	06/16/15 17:42	
15161-SW-1	R1504622-003	<b>0.452</b>	0.020	1	06/16/15 17:52	
15161-SW-2	R1504622-004	<b>0.293</b>	0.020	1	06/16/15 18:02	
15161-SW-3	R1504622-005	<b>0.417</b>	0.020	1	06/16/15 18:12	
15161-SW-4	R1504622-006	<b>0.458</b>	0.020	1	06/16/15 18:42	
15161-DUP	R1504622-011	<b>0.051</b>	0.020	1	06/16/15 18:52	
Method Blank	R1504622-MB1	0.020 U	0.020	1	06/16/15 16:30	

**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Soil  
**Analysis Method:** 7199  
**Prep Method:** EPA 3060A

**Service Request:** R1504622  
**Date Collected:** 06/10/15  
**Date Received:** 06/11/15  
**Units:** mg/Kg  
**Basis:** Dry

**Chromium, Hexavalent**

Sample Name	Lab Code	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
15161-SD-1	R1504622-007	<b>4.51</b>	0.97	0.24	1	06/18/15 00:33	6/16/15	
15161-SD-1	R1504622-007	<b>4.51</b>	0.97	0.24	1	06/18/15 00:24	6/16/15	
15161-SD-2	R1504622-008	<b>2.62</b>	0.62	0.16	1	06/18/15 00:40	6/16/15	
15161-SD-2	R1504622-008	<b>2.62</b>	0.62	0.16	1	06/18/15 00:49	6/16/15	
15161-SD-3	R1504622-009	<b>2.05</b>	0.51	0.13	1	06/18/15 01:05	6/16/15	
15161-SD-3	R1504622-009	<b>2.06</b>	0.51	0.13	1	06/18/15 00:56	6/16/15	
15161-SD-4	R1504622-010	<b>7.94</b>	0.72	0.18	1	06/18/15 11:06	6/16/15	
15161-SD-4	R1504622-010	<b>7.95</b>	0.72	0.18	1	06/18/15 11:15	6/16/15	
Method Blank	R1504622-MB2	<b>0.10 J</b>	0.40	0.10	1	06/17/15 18:19	6/16/15	
Method Blank	R1504622-MB2	0.10 U	0.40	0.10	1	06/17/15 18:28	6/16/15	

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Soil

**Service Request:** R1504622  
**Date Analyzed:** 06/17/15

**Lab Control Sample Summary**  
**General Chemistry Parameters**

**Units:**mg/Kg  
**Basis:**Dry

**Lab Control Sample**  
R1504622-LCS1

<b>Analyte Name</b>	<b>Analytical Method</b>	<b>Result</b>	<b>Spike Amount</b>	<b>% Rec</b>	<b>% Rec Limits</b>
Chromium, Hexavalent	7199	668	650	103	80-120
Chromium, Hexavalent	7199	670	650	103	80-120

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Water

**Service Request:** R1504622  
**Date Analyzed:** 06/16/15

**Lab Control Sample Summary**  
**General Chemistry Parameters**

**Units:**ug/L  
**Basis:**NA

**Lab Control Sample**  
R1504622-LCS2

<u>Analyte Name</u>	<u>Analytical Method</u>	<u>Result</u>	<u>Spike Amount</u>	<u>% Rec</u>	<u>% Rec Limits</u>
Chromium, Hexavalent, Dissolved	218.6 LL	0.206	0.200	103	90-110



# CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

26695

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 1 OF 7

Project Name			Project Number			ANALYSIS REQUESTED (Include Method Number and Container Preservative)												PRESERVATIVE		PRELIMINARY RESULTS		REMARKS/ALTERNATE DESCRIPTION																								
Project Manager			Report CC			METALS, DISSOLVED			METALS, TOTAL			PCBS			PESTICIDES			GC VOAS			GC/MS VOAS			NUMBER OF CONTAINERS		MATERIALS		INVOICE INFORMATION																		
Company/Address			Sample's Printed Name			FOR OFFICE USE ONLY/LAB ID			DATE			SAMPLING TIME			MATRIX			PRESERVATIVE			METALS, DISSOLVED			METALS, TOTAL			PCBS			PESTICIDES			GC VOAS			GC/MS VOAS			REMARKS/ALTERNATE DESCRIPTION							
PPC			William Crowe																														Hexavalent Chromium		PPC											
1050 Crown Pointe Parkway Suite 550 Atlanta, GA 30338			William Crowe																																	Preservative Key 0. NONE 1. HCl 2. HNO <sub>3</sub> 3. H <sub>2</sub> SO <sub>4</sub> 4. NaOH 5. Zn Acetate 6. MeOH 7. NaHSO <sub>4</sub> 8. Other <i>Ice</i>		PO # BILL TO:								
Phone # 404-315-9113			Email wcrowe@envplanning.com																																	I. Results Only		II. Results + OC Summaries (LCS, DUP, MS/MSD as required)		III. Results + OC and Calibration Summaries		IV. Data Validation Report with Raw Data				
Sample's Signature <i>William Crowe</i>			Sample's Printed Name William Crowe																																				Edata Yes No		RELIQUISHED BY					
Signature <i>[Signature]</i>			Signature <i>[Signature]</i>																																				Signature		Printed Name		Firm		Date/Time	
Printed Name William Crowe			Printed Name <i>[Signature]</i>																																				Signature		Printed Name		Firm		Date/Time	
Firm EPS, Inc.			Firm <i>[Signature]</i>																																				Signature		Printed Name		Firm		Date/Time	
Date/Time 6/15 1500			Date/Time 6/15 0730																																				Signature		Printed Name		Firm		Date/Time	



# Cooler Receipt and Preservation Check Form

**R1504622** **5**  
 Environmental Planning Specialists  
 Hexavalent chromium

Project/Client EP3 Inc Folder Number \_\_\_\_\_

Cooler received on 6/11/15 by [Signature] COURIER: ALS UPS ~~FEDEX~~ VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	<input checked="" type="radio"/> Y	<input type="radio"/> N
2	Custody papers properly completed (ink, signed)?	<input checked="" type="radio"/> Y	<input type="radio"/> N
3	Did all bottles arrive in good condition (unbroken)?	<input checked="" type="radio"/> Y	<input type="radio"/> N
4	Circle: <u>Wet Ice</u> Dry Ice Gel packs present?	<input checked="" type="radio"/> Y	<input type="radio"/> N

5a	Perchlorate samples have required headspace?	<input type="radio"/> Y	<input type="radio"/> N	<input checked="" type="radio"/> NA
5b	Did VOA vials, Alk, or Sulfide have sig* bubbles?	<input type="radio"/> Y	<input type="radio"/> N	<input checked="" type="radio"/> NA
6	Where did the bottles originate?	<u>ALS/ROC</u>	<u>CLIENT</u>	
7	Soil VOA received as: Bulk Encore 5035set			<input checked="" type="radio"/> NA

8. Temperature Readings Date: 6/11/15 Time: \_\_\_\_\_ ID: IR#3 IR#5 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>2.8</u>						
Correction Factor (°C)	<u>-</u>						
Corrected Temp (°C)	<u>2.8</u>						
Within 0-6°C?	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N

If out of Temperature, note packing/ice condition: \_\_\_\_\_ Ice melted \_\_\_\_\_ Poorly Packed \_\_\_\_\_ Same Day Rule \_\_\_\_\_  
 & Client Approval to Run Samples: \_\_\_\_\_ Standing Approval \_\_\_\_\_ Client aware at drop-off \_\_\_\_\_ Client notified by: \_\_\_\_\_

All samples held in storage location: Shipper's Cooler by [Signature] on 6/11/15 at 0740  
 5035 samples placed in storage location: \_\_\_\_\_ by \_\_\_\_\_ on \_\_\_\_\_ at \_\_\_\_\_

PC Secondary Review: [Signature] 6/11/15

Cooler Breakdown: Date: 6/11/15 Time: 1320 by: [Signature]

- Were all bottle labels complete (i.e. analysis, preservation, etc.)?  YES  NO
- Did all bottle labels and tags agree with custody papers?  YES  NO
- Were correct containers used for the tests indicated?  YES  NO
- Air Samples: Cassettes / Tubes Intact \_\_\_\_\_ Canisters Pressurized \_\_\_\_\_ Tedlar® Bags Inflated  N/A

Explain any discrepancies:

pH	Reagent	Yes	No	Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
≥12	NaOH								
≤2	HNO <sub>3</sub>								
<2	H <sub>2</sub> SO <sub>4</sub>								
<4	NaHSO <sub>4</sub>								
Residual Chlorine (-)	For CN Phenol and 522			If +, contact PM to add Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (CN), ascorbic (phenol).					
	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	-	-						
	ZnAcetate	-	-						
	HCl	**	**						

Yes=All samples OK  
 No=Samples were preserved at The lab as listed  
 PM OK to Adjust: \_\_\_\_\_

\*\*Not to be tested before analysis - pH tested and recorded by VOAs on a separate worksheet

Bottle lot numbers: 042715-2APP, 22031500  
 Other Comments: \_\_\_\_\_

218.4 (7)  
 6/10/15  
 1016-1345

Crt6 Buffer WC140185A Exp 4/16

PC Secondary Review: [Signature] 6/11/15 significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter

## **AES Laboratory Data - August**



August 27, 2015

Jeff Dennis  
Environmental Planning Specialists, Inc.  
1050 Crown Pointe Parkway  
Atlanta GA 30338

TEL: (404) 315-9113  
FAX: (404) 315-8509

RE: PPC

Dear Jeff Dennis:

Order No: 1508H20

Analytical Environmental Services, Inc. received 33 samples on 8/20/2015 10:30:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/15-06/30/16.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/15.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Chantelle Kanhai  
Project Manager





# ANALYTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Drive, Atlanta GA 30340-3704

TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

# CHAIN OF CUSTODY

Work Order: 150PH20

AES

Date: 8-20-15 Page 1 of 3

COMPANY: <p style="font-size: 1.5em;"><i>EPS, Inc.</i></p>		ADDRESS: <p style="font-size: 1.2em;"><i>1050 Brown Pointe Pkwy Ste. 550</i></p> <p style="font-size: 1.2em;"><i>Atlanta, GA 30338</i></p>					ANALYSIS REQUESTED      								Visit our website <a href="http://www.aesatlanta.com">www.aesatlanta.com</a> to check on the status of your results, place bottle orders, etc.			No # of Containers				
PHONE: <p style="font-size: 1.2em;"><i>(404) 315-9113</i></p>		FAX:					VOCs H+I PRESERVATION (See codes)															
SAMPLED BY: <p style="font-size: 1.2em;"><i>Jeff Dennis / Ben Cozzie</i></p>		SIGNATURE: 														REMARKS						
#	SAMPLE ID	SAMPLED		Grab	Composite	Matrix (See codes)	PRESERVATION (See codes)								REMARKS							
		DATE	TIME																			
1	15229-MW-2	8-17-15	1500	X		GW	X														2	
2	15229-MW-6	8-17-15	1055	X		GW	X														2	
3	15229-MW-1	8-17-15	1528	X		GW	X														2	
4	15229-MW-3	8-17-15	1713	X		GW	X														2	
5	15229-MW-4	8-17-15	1743	X		GW	X														2	
6	15230-MW-5	8-18-15	1108	Y		GW	X														2	
7	15230-MW-12	8-18-15	1448	X		GW	X														2	
8	15230-MW-13	8-18-15	1653	X		GW	X														2	
9	15231-MW-8	8-19-15	1158	X		GW	X														2	
10	15231-MW-9	8-19-15	1210	X		GW	X														2	
11	15231-MW-7	8-19-15	1433	X		GW	X														2	
12	15231-MW-11	8-19-15	1518	X		GW	X														2	
13	15231-MW-10	8-19-15	1623	X		GW	X														2	
14	15231-DUP	8-19-15	1200	X		GW	X														2	
RELINQUISHED BY		DATE/TIME		RECEIVED BY		DATE/TIME		PROJECT INFORMATION								RECEIPT						
 1:		<i>8/20/15</i> 1030		 2:		<i>8/20/15 1030</i> 2:		PROJECT NAME: <p style="font-size: 1.2em;"><i>PFC</i></p>								Total # of Containers <p style="font-size: 1.5em; text-align: right;">28</p>						
3:				3:				PROJECT #: SITE ADDRESS: <p style="font-size: 1.2em;"><i>Savannah</i></p>								<input checked="" type="radio"/> Turnaround Time Request <input type="radio"/> Standard 5 Business Days <input type="radio"/> 2 Business Day Rush <input type="radio"/> Next Business Day Rush <input type="radio"/> Same Day Rush (auth req.) <input type="radio"/> Other _____						
SPECIAL INSTRUCTIONS/COMMENTS:				SHIPMENT METHOD				INVOICE TO:								STATE PROGRAM (if any):						
				OUT / / VIA: IN <input checked="" type="radio"/> / / VIA: <input checked="" type="radio"/> FedEx <input type="radio"/> UPS <input type="radio"/> MAIL <input type="radio"/> COURIER <input type="radio"/> GREYHOUND <input type="radio"/> OTHER _____				(IF DIFFERENT FROM ABOVE)								E-mail? Y/N; Fax? Y/N DATA PACKAGE: I II III IV						
QUOTE #: _____ PO#: _____																						

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES.  
 SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water  
 PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

Page 2 of 102  
White Copy - Original; Yellow Copy - Client

**ANALYTICAL ENVIRONMENTAL SERVICES, INC**

3080 Presidential Drive, Atlanta GA 30340-3704

**AES**

TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

WORK ORDER: 120070

Date: 8-20-15 Page 2 of 3

COMPANY: <b>EPS, Inc</b>		ADDRESS: <b>1050 Crown Pointe Pkwy, Ste. 550 Atlanta, GA 30338</b>					ANALYSIS REQUESTED										Visit our website <b>www.aesatlanta.com</b> to check on the status of your results, place bottle orders, etc.		No # of Containers				
PHONE: <b>(404) 315-9113</b>		FAX:					PRESERVATION (See codes)										REMARKS						
SAMPLED BY: <b>Jeff Dennis / Ben Crowe</b>		SIGNATURE: <i>[Signature]</i>					VOCs VOCs																
#	SAMPLE ID	SAMPLED		Grab	Composite	Matrix (See codes)	S/M/I	H/I											REMARKS				
		DATE	TIME																				
1	15229-58-25-2	8-17-15	1009	X		SO	X																4
2	15229-58-23-2	8-17-15	1101	X		SO	X																4
3	15229-58-19-2	8-17-15	1336	X		SO	X																4
4	15229-58-24-2	8-17-15	1302	X		SO	X																4
5	15229-58-22-2	8-17-15	1317	X		SO	X																4
6	15229-58-21-2	8-17-15	1324	X		SO	X																4
7	15229-58-18-2	8-17-15	1526	X		SO	X																4
8	15229-58-14-2	8-17-15	1607	X		SO	X																4
9	15229-58-13-2	8-17-15	1638	X		SO	X																4
10	15229-58-20-2	8-17-15	1753	X		SO	X																4
11	15230-58-15-2	8-18-15	1414	X		SO	X																4
12	15230-58-16-2	8-18-15	1431	X		SO	X																4
13	15230-58-17-2	8-18-15	1446	X		SO	X																4
14	Trip Blank	8-14-15		X		W		X															2
RELINQUISHED BY: <i>[Signature]</i>		DATE/TIME: 8/20/15 1030	RECEIVED BY: <i>[Signature]</i>		DATE/TIME: 8/20/15 1030	PROJECT INFORMATION										RECEIPT							
						PROJECT NAME: PPC										Total # of Containers 54							
						PROJECT #:										Turnaround Time Request							
						SITE ADDRESS: Savannah, GA										<input checked="" type="radio"/> Standard 5 Business Days							
						SEND REPORT TO: K.Kessler@envplanning.com										<input type="radio"/> 2 Business Day Rush							
						INVOICE TO: (IF DIFFERENT FROM ABOVE)										<input type="radio"/> Next Business Day Rush							
						SHIPMENT METHOD										<input type="radio"/> Same Day Rush (auth req.)							
						OUT / / VIA:										<input type="radio"/> Other							
						IN / / VIA:										STATE PROGRAM (if any):							
						CLIENT FedEx UPS MAIL COURIER										E-mail? Y/N; Fax? Y/N							
						GREYHOUND OTHER										DATA PACKAGE: I II III IV							
						QUOTE #:																	
						PO#:																	

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES. SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water

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COMPANY: <b>EPS, Inc</b>		ADDRESS: <b>1050 Crown Pointe Pkwy Ste 550 Atlanta, GA 30338</b>				ANALYSIS REQUESTED					Visit our website <a href="http://www.aesatlanta.com">www.aesatlanta.com</a> to check on the status of your results, place bottle orders, etc.		No # of Containers	
PHONE: <b>404-315-9113</b>		FAX:				PRESERVATION (See codes)								
SAMPLED BY: <b>Ben Crowe / Jeff Dennis</b>		SIGNATURE:									REMARKS			
#	SAMPLE ID	DATE	TIME	Grab	Composite	Matrix (See codes)								
1	15231-SD-5	8/19/15	0938	X		SO	X							4
2	15231-SD-6		0927	X		SO	X							4
3	15231-SD-7		0857	X		SO	X							4
4	15231-SD-8		0841	X		SO	X							4
5	15231-SD-9		0832	X		SO	X							4
6														
7														
8														
9														
10														
11														
12														
13														
14														

RELINQUISHED BY		DATE/TIME	RECEIVED BY	DATE/TIME	PROJECT INFORMATION		RECEIPT	
		<b>8/20/15 1030</b>		<b>8/20/15 1030</b>	PROJECT NAME:	<b>PPC</b>	Total # of Containers	<b>20</b>
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD		SEND REPORT TO:		Turnaround Time Request		
		OUT / / VIA:		<b>Kessler@Envrplanning.com</b>		<input checked="" type="radio"/> Standard 5 Business Days <input type="radio"/> 2 Business Day Rush <input type="radio"/> Next Business Day Rush <input type="radio"/> Same Day Rush (auth req.) <input type="radio"/> Other _____		
		IN / / VIA:		INVOICE TO:		STATE PROGRAM (if any): _____		
		<input checked="" type="radio"/> CLIENT <input type="radio"/> FedEx <input type="radio"/> UPS MAIL <input type="radio"/> COURIER		(IF DIFFERENT FROM ABOVE)		E-mail? Y/N; Fax? Y/N		
		GREYHOUND OTHER _____		QUOTE #: _____ PO#: _____		DATA PACKAGE: I II III IV		

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES. SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

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PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

**Client:** Environmental Planning Specialists, Inc.  
**Project:** PPC  
**Lab ID:** 1508H20

**Case Narrative**

Volatile Organic Compounds Analysis by Method 8260B:

Percent recovery for the internal standard compound 1,4-Dichlorobenzene-d4 on samples 1508H20-015A/-027A/-031A, & -032A was outside control limits biased low due to suspected matrix interference. All other internal standard recoveries were within control limits.

Percent recovery for the internal standard compounds Pentafluorobenzene, 1,4-Difluorobenzene, Chlorobenzene-d5 and 1,4-Dichlorobenzene-d4 on sample 1508H20-029A was outside control limits biased low due to suspected matrix interference. All other internal standard recoveries were within control limits.

Percent recovery for the internal standard compounds Pentafluorobenzene, 1,4-Difluorobenzene, Chlorobenzene-d5 and 1,4-Dichlorobenzene-d4 on sample 1508H20-030A was outside control limits biased low due to suspected matrix interference. All other internal standard recoveries were within control limits.

Percent recovery for the internal standard compounds Chlorobenzene-d5 and 1,4-Dichlorobenzene-d4 on sample 1508H20-033A was outside control limits biased low due to suspected matrix interference. All other internal standard recoveries were within control limits.

Acetone value for samples 1508H20-024A, & -030A is "E" qualified indicating an estimated value over linear calibration range. Sample was diluted and reanalyzed using the supplied methanol preserved sample at the minimum dilution allowed resulting in analytes being below reporting limits.

**Analytical Environmental Services, Inc**

Date: 27-Aug-15

<b>Client:</b>	Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b>	15229-MW-2
<b>Lab Order</b>	1508H20	<b>Tag Number:</b>	
<b>Project Name:</b>	PPC	<b>Collection Date:</b>	8/17/2015 3:00:00 PM
<b>Lab ID:</b>	1508H20-001A	<b>Matrix:</b>	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,1,1-Trichloroethane	BRL	5.0		ug/L	211946	1	08/24/2015 21:18	CH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	211946	1	08/24/2015 21:18	CH
1,1,2-Trichloroethane	BRL	5.0		ug/L	211946	1	08/24/2015 21:18	CH
1,1-Dichloroethane	BRL	5.0		ug/L	211946	1	08/24/2015 21:18	CH
1,1-Dichloroethene	BRL	5.0		ug/L	211946	1	08/24/2015 21:18	CH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	211946	1	08/24/2015 21:18	CH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	211946	1	08/24/2015 21:18	CH
1,2-Dibromoethane	BRL	5.0		ug/L	211946	1	08/24/2015 21:18	CH
1,2-Dichlorobenzene	BRL	5.0		ug/L	211946	1	08/24/2015 21:18	CH
1,2-Dichloroethane	BRL	5.0		ug/L	211946	1	08/24/2015 21:18	CH
1,2-Dichloropropane	BRL	5.0		ug/L	211946	1	08/24/2015 21:18	CH
1,3-Dichlorobenzene	BRL	5.0		ug/L	211946	1	08/24/2015 21:18	CH
1,4-Dichlorobenzene	BRL	5.0		ug/L	211946	1	08/24/2015 21:18	CH
2-Butanone	BRL	50		ug/L	211946	1	08/24/2015 21:18	CH
2-Hexanone	BRL	10		ug/L	211946	1	08/24/2015 21:18	CH
4-Methyl-2-pentanone	BRL	10		ug/L	211946	1	08/24/2015 21:18	CH
Acetone	BRL	50		ug/L	211946	1	08/24/2015 21:18	CH
Benzene	BRL	5.0		ug/L	211946	1	08/24/2015 21:18	CH
Bromodichloromethane	BRL	5.0		ug/L	211946	1	08/24/2015 21:18	CH
Bromoform	BRL	5.0		ug/L	211946	1	08/24/2015 21:18	CH
Bromomethane	BRL	5.0		ug/L	211946	1	08/24/2015 21:18	CH
Carbon disulfide	BRL	5.0		ug/L	211946	1	08/24/2015 21:18	CH
Carbon tetrachloride	BRL	5.0		ug/L	211946	1	08/24/2015 21:18	CH
Chlorobenzene	BRL	5.0		ug/L	211946	1	08/24/2015 21:18	CH
Chloroethane	BRL	10		ug/L	211946	1	08/24/2015 21:18	CH
Chloroform	BRL	5.0		ug/L	211946	1	08/24/2015 21:18	CH
Chloromethane	BRL	10		ug/L	211946	1	08/24/2015 21:18	CH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	211946	1	08/24/2015 21:18	CH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	211946	1	08/24/2015 21:18	CH
Cyclohexane	BRL	5.0		ug/L	211946	1	08/24/2015 21:18	CH
Dibromochloromethane	BRL	5.0		ug/L	211946	1	08/24/2015 21:18	CH
Dichlorodifluoromethane	BRL	10		ug/L	211946	1	08/24/2015 21:18	CH
Ethylbenzene	BRL	5.0		ug/L	211946	1	08/24/2015 21:18	CH
Freon-113	BRL	10		ug/L	211946	1	08/24/2015 21:18	CH
Isopropylbenzene	BRL	5.0		ug/L	211946	1	08/24/2015 21:18	CH
m,p-Xylene	BRL	5.0		ug/L	211946	1	08/24/2015 21:18	CH
Methyl acetate	BRL	5.0		ug/L	211946	1	08/24/2015 21:18	CH
Methyl tert-butyl ether	BRL	5.0		ug/L	211946	1	08/24/2015 21:18	CH
Methylcyclohexane	BRL	5.0		ug/L	211946	1	08/24/2015 21:18	CH
Methylene chloride	BRL	5.0		ug/L	211946	1	08/24/2015 21:18	CH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 27-Aug-15

<b>Client:</b>	Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b>	15229-MW-2
<b>Lab Order</b>	1508H20	<b>Tag Number:</b>	
<b>Project Name:</b>	PPC	<b>Collection Date:</b>	8/17/2015 3:00:00 PM
<b>Lab ID:</b>	1508H20-001A	<b>Matrix:</b>	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
o-Xylene	BRL	5.0		ug/L	211946	1	08/24/2015 21:18	CH
Styrene	BRL	5.0		ug/L	211946	1	08/24/2015 21:18	CH
Tetrachloroethene	BRL	5.0		ug/L	211946	1	08/24/2015 21:18	CH
Toluene	BRL	5.0		ug/L	211946	1	08/24/2015 21:18	CH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	211946	1	08/24/2015 21:18	CH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	211946	1	08/24/2015 21:18	CH
Trichloroethene	BRL	5.0		ug/L	211946	1	08/24/2015 21:18	CH
Trichlorofluoromethane	BRL	5.0		ug/L	211946	1	08/24/2015 21:18	CH
Vinyl chloride	BRL	2.0		ug/L	211946	1	08/24/2015 21:18	CH
Surr: 4-Bromofluorobenzene	96.8	70.6-123		%REC	211946	1	08/24/2015 21:18	CH
Surr: Dibromofluoromethane	93.5	78.7-124		%REC	211946	1	08/24/2015 21:18	CH
Surr: Toluene-d8	93.3	81.3-120		%REC	211946	1	08/24/2015 21:18	CH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 27-Aug-15

<b>Client:</b>	Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b>	15229-MW-6
<b>Lab Order</b>	1508H20	<b>Tag Number:</b>	
<b>Project Name:</b>	PPC	<b>Collection Date:</b>	8/17/2015 10:55:00 AM
<b>Lab ID:</b>	1508H20-002A	<b>Matrix:</b>	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,1,1-Trichloroethane	BRL	5.0		ug/L	211946	1	08/24/2015 21:41	CH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	211946	1	08/24/2015 21:41	CH
1,1,2-Trichloroethane	BRL	5.0		ug/L	211946	1	08/24/2015 21:41	CH
1,1-Dichloroethane	BRL	5.0		ug/L	211946	1	08/24/2015 21:41	CH
1,1-Dichloroethene	BRL	5.0		ug/L	211946	1	08/24/2015 21:41	CH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	211946	1	08/24/2015 21:41	CH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	211946	1	08/24/2015 21:41	CH
1,2-Dibromoethane	BRL	5.0		ug/L	211946	1	08/24/2015 21:41	CH
1,2-Dichlorobenzene	BRL	5.0		ug/L	211946	1	08/24/2015 21:41	CH
1,2-Dichloroethane	BRL	5.0		ug/L	211946	1	08/24/2015 21:41	CH
1,2-Dichloropropane	BRL	5.0		ug/L	211946	1	08/24/2015 21:41	CH
1,3-Dichlorobenzene	BRL	5.0		ug/L	211946	1	08/24/2015 21:41	CH
1,4-Dichlorobenzene	BRL	5.0		ug/L	211946	1	08/24/2015 21:41	CH
2-Butanone	BRL	50		ug/L	211946	1	08/24/2015 21:41	CH
2-Hexanone	BRL	10		ug/L	211946	1	08/24/2015 21:41	CH
4-Methyl-2-pentanone	BRL	10		ug/L	211946	1	08/24/2015 21:41	CH
Acetone	BRL	50		ug/L	211946	1	08/24/2015 21:41	CH
Benzene	BRL	5.0		ug/L	211946	1	08/24/2015 21:41	CH
Bromodichloromethane	BRL	5.0		ug/L	211946	1	08/24/2015 21:41	CH
Bromoform	BRL	5.0		ug/L	211946	1	08/24/2015 21:41	CH
Bromomethane	BRL	5.0		ug/L	211946	1	08/24/2015 21:41	CH
Carbon disulfide	BRL	5.0		ug/L	211946	1	08/24/2015 21:41	CH
Carbon tetrachloride	BRL	5.0		ug/L	211946	1	08/24/2015 21:41	CH
Chlorobenzene	BRL	5.0		ug/L	211946	1	08/24/2015 21:41	CH
Chloroethane	BRL	10		ug/L	211946	1	08/24/2015 21:41	CH
Chloroform	BRL	5.0		ug/L	211946	1	08/24/2015 21:41	CH
Chloromethane	BRL	10		ug/L	211946	1	08/24/2015 21:41	CH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	211946	1	08/24/2015 21:41	CH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	211946	1	08/24/2015 21:41	CH
Cyclohexane	BRL	5.0		ug/L	211946	1	08/24/2015 21:41	CH
Dibromochloromethane	BRL	5.0		ug/L	211946	1	08/24/2015 21:41	CH
Dichlorodifluoromethane	BRL	10		ug/L	211946	1	08/24/2015 21:41	CH
Ethylbenzene	BRL	5.0		ug/L	211946	1	08/24/2015 21:41	CH
Freon-113	BRL	10		ug/L	211946	1	08/24/2015 21:41	CH
Isopropylbenzene	BRL	5.0		ug/L	211946	1	08/24/2015 21:41	CH
m,p-Xylene	BRL	5.0		ug/L	211946	1	08/24/2015 21:41	CH
Methyl acetate	BRL	5.0		ug/L	211946	1	08/24/2015 21:41	CH
Methyl tert-butyl ether	BRL	5.0		ug/L	211946	1	08/24/2015 21:41	CH
Methylcyclohexane	BRL	5.0		ug/L	211946	1	08/24/2015 21:41	CH
Methylene chloride	BRL	5.0		ug/L	211946	1	08/24/2015 21:41	CH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 27-Aug-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15229-MW-6
<b>Lab Order:</b> 1508H20	<b>Tag Number:</b>
<b>Project Name:</b> PPC	<b>Collection Date:</b> 8/17/2015 10:55:00 AM
<b>Lab ID:</b> 1508H20-002A	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
o-Xylene	BRL	5.0		ug/L	211946	1	08/24/2015 21:41	CH
Styrene	BRL	5.0		ug/L	211946	1	08/24/2015 21:41	CH
Tetrachloroethene	BRL	5.0		ug/L	211946	1	08/24/2015 21:41	CH
Toluene	BRL	5.0		ug/L	211946	1	08/24/2015 21:41	CH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	211946	1	08/24/2015 21:41	CH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	211946	1	08/24/2015 21:41	CH
Trichloroethene	BRL	5.0		ug/L	211946	1	08/24/2015 21:41	CH
Trichlorofluoromethane	BRL	5.0		ug/L	211946	1	08/24/2015 21:41	CH
Vinyl chloride	BRL	2.0		ug/L	211946	1	08/24/2015 21:41	CH
Surr: 4-Bromofluorobenzene	87.5	70.6-123		%REC	211946	1	08/24/2015 21:41	CH
Surr: Dibromofluoromethane	98.2	78.7-124		%REC	211946	1	08/24/2015 21:41	CH
Surr: Toluene-d8	95.9	81.3-120		%REC	211946	1	08/24/2015 21:41	CH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit



**Analytical Environmental Services, Inc**

Date: 27-Aug-15

<b>Client:</b>	Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b>	15229-MW-1
<b>Lab Order</b>	1508H20	<b>Tag Number:</b>	
<b>Project Name:</b>	PPC	<b>Collection Date:</b>	8/17/2015 3:28:00 PM
<b>Lab ID:</b>	1508H20-003A	<b>Matrix:</b>	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,1,1-Trichloroethane	BRL	5.0		ug/L	211946	1	08/25/2015 01:01	CH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	211946	1	08/25/2015 01:01	CH
1,1,2-Trichloroethane	BRL	5.0		ug/L	211946	1	08/25/2015 01:01	CH
1,1-Dichloroethane	BRL	5.0		ug/L	211946	1	08/25/2015 01:01	CH
1,1-Dichloroethene	BRL	5.0		ug/L	211946	1	08/25/2015 01:01	CH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	211946	1	08/25/2015 01:01	CH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	211946	1	08/25/2015 01:01	CH
1,2-Dibromoethane	BRL	5.0		ug/L	211946	1	08/25/2015 01:01	CH
1,2-Dichlorobenzene	BRL	5.0		ug/L	211946	1	08/25/2015 01:01	CH
1,2-Dichloroethane	BRL	5.0		ug/L	211946	1	08/25/2015 01:01	CH
1,2-Dichloropropane	BRL	5.0		ug/L	211946	1	08/25/2015 01:01	CH
1,3-Dichlorobenzene	BRL	5.0		ug/L	211946	1	08/25/2015 01:01	CH
1,4-Dichlorobenzene	BRL	5.0		ug/L	211946	1	08/25/2015 01:01	CH
2-Butanone	BRL	50		ug/L	211946	1	08/25/2015 01:01	CH
2-Hexanone	BRL	10		ug/L	211946	1	08/25/2015 01:01	CH
4-Methyl-2-pentanone	BRL	10		ug/L	211946	1	08/25/2015 01:01	CH
Acetone	BRL	50		ug/L	211946	1	08/25/2015 01:01	CH
Benzene	BRL	5.0		ug/L	211946	1	08/25/2015 01:01	CH
Bromodichloromethane	BRL	5.0		ug/L	211946	1	08/25/2015 01:01	CH
Bromoform	BRL	5.0		ug/L	211946	1	08/25/2015 01:01	CH
Bromomethane	BRL	5.0		ug/L	211946	1	08/25/2015 01:01	CH
Carbon disulfide	BRL	5.0		ug/L	211946	1	08/25/2015 01:01	CH
Carbon tetrachloride	BRL	5.0		ug/L	211946	1	08/25/2015 01:01	CH
Chlorobenzene	BRL	5.0		ug/L	211946	1	08/25/2015 01:01	CH
Chloroethane	BRL	10		ug/L	211946	1	08/25/2015 01:01	CH
Chloroform	BRL	5.0		ug/L	211946	1	08/25/2015 01:01	CH
Chloromethane	BRL	10		ug/L	211946	1	08/25/2015 01:01	CH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	211946	1	08/25/2015 01:01	CH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	211946	1	08/25/2015 01:01	CH
Cyclohexane	BRL	5.0		ug/L	211946	1	08/25/2015 01:01	CH
Dibromochloromethane	BRL	5.0		ug/L	211946	1	08/25/2015 01:01	CH
Dichlorodifluoromethane	BRL	10		ug/L	211946	1	08/25/2015 01:01	CH
Ethylbenzene	BRL	5.0		ug/L	211946	1	08/25/2015 01:01	CH
Freon-113	BRL	10		ug/L	211946	1	08/25/2015 01:01	CH
Isopropylbenzene	BRL	5.0		ug/L	211946	1	08/25/2015 01:01	CH
m,p-Xylene	BRL	5.0		ug/L	211946	1	08/25/2015 01:01	CH
Methyl acetate	BRL	5.0		ug/L	211946	1	08/25/2015 01:01	CH
Methyl tert-butyl ether	BRL	5.0		ug/L	211946	1	08/25/2015 01:01	CH
Methylcyclohexane	BRL	5.0		ug/L	211946	1	08/25/2015 01:01	CH
Methylene chloride	BRL	5.0		ug/L	211946	1	08/25/2015 01:01	CH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 27-Aug-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15229-MW-1
<b>Lab Order:</b> 1508H20	<b>Tag Number:</b>
<b>Project Name:</b> PPC	<b>Collection Date:</b> 8/17/2015 3:28:00 PM
<b>Lab ID:</b> 1508H20-003A	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
o-Xylene	BRL	5.0		ug/L	211946	1	08/25/2015 01:01	CH
Styrene	BRL	5.0		ug/L	211946	1	08/25/2015 01:01	CH
Tetrachloroethene	BRL	5.0		ug/L	211946	1	08/25/2015 01:01	CH
Toluene	BRL	5.0		ug/L	211946	1	08/25/2015 01:01	CH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	211946	1	08/25/2015 01:01	CH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	211946	1	08/25/2015 01:01	CH
Trichloroethene	BRL	5.0		ug/L	211946	1	08/25/2015 01:01	CH
Trichlorofluoromethane	BRL	5.0		ug/L	211946	1	08/25/2015 01:01	CH
Vinyl chloride	BRL	2.0		ug/L	211946	1	08/25/2015 01:01	CH
Surr: 4-Bromofluorobenzene	102	70.6-123		%REC	211946	1	08/25/2015 01:01	CH
Surr: Dibromofluoromethane	82.9	78.7-124		%REC	211946	1	08/25/2015 01:01	CH
Surr: Toluene-d8	85.3	81.3-120		%REC	211946	1	08/25/2015 01:01	CH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

Date: 27-Aug-15

<b>Client:</b>	Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b>	15229-MW-3
<b>Lab Order</b>	1508H20	<b>Tag Number:</b>	
<b>Project Name:</b>	PPC	<b>Collection Date:</b>	8/17/2015 5:13:00 PM
<b>Lab ID:</b>	1508H20-004A	<b>Matrix:</b>	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,1,1-Trichloroethane	BRL	5.0		ug/L	211946	1	08/25/2015 01:25	CH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	211946	1	08/25/2015 01:25	CH
1,1,2-Trichloroethane	BRL	5.0		ug/L	211946	1	08/25/2015 01:25	CH
1,1-Dichloroethane	BRL	5.0		ug/L	211946	1	08/25/2015 01:25	CH
1,1-Dichloroethene	BRL	5.0		ug/L	211946	1	08/25/2015 01:25	CH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	211946	1	08/25/2015 01:25	CH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	211946	1	08/25/2015 01:25	CH
1,2-Dibromoethane	BRL	5.0		ug/L	211946	1	08/25/2015 01:25	CH
1,2-Dichlorobenzene	BRL	5.0		ug/L	211946	1	08/25/2015 01:25	CH
1,2-Dichloroethane	BRL	5.0		ug/L	211946	1	08/25/2015 01:25	CH
1,2-Dichloropropane	BRL	5.0		ug/L	211946	1	08/25/2015 01:25	CH
1,3-Dichlorobenzene	BRL	5.0		ug/L	211946	1	08/25/2015 01:25	CH
1,4-Dichlorobenzene	BRL	5.0		ug/L	211946	1	08/25/2015 01:25	CH
2-Butanone	BRL	50		ug/L	211946	1	08/25/2015 01:25	CH
2-Hexanone	BRL	10		ug/L	211946	1	08/25/2015 01:25	CH
4-Methyl-2-pentanone	BRL	10		ug/L	211946	1	08/25/2015 01:25	CH
Acetone	BRL	50		ug/L	211946	1	08/25/2015 01:25	CH
Benzene	BRL	5.0		ug/L	211946	1	08/25/2015 01:25	CH
Bromodichloromethane	BRL	5.0		ug/L	211946	1	08/25/2015 01:25	CH
Bromoform	BRL	5.0		ug/L	211946	1	08/25/2015 01:25	CH
Bromomethane	BRL	5.0		ug/L	211946	1	08/25/2015 01:25	CH
Carbon disulfide	BRL	5.0		ug/L	211946	1	08/25/2015 01:25	CH
Carbon tetrachloride	BRL	5.0		ug/L	211946	1	08/25/2015 01:25	CH
Chlorobenzene	BRL	5.0		ug/L	211946	1	08/25/2015 01:25	CH
Chloroethane	BRL	10		ug/L	211946	1	08/25/2015 01:25	CH
Chloroform	BRL	5.0		ug/L	211946	1	08/25/2015 01:25	CH
Chloromethane	BRL	10		ug/L	211946	1	08/25/2015 01:25	CH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	211946	1	08/25/2015 01:25	CH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	211946	1	08/25/2015 01:25	CH
Cyclohexane	BRL	5.0		ug/L	211946	1	08/25/2015 01:25	CH
Dibromochloromethane	BRL	5.0		ug/L	211946	1	08/25/2015 01:25	CH
Dichlorodifluoromethane	BRL	10		ug/L	211946	1	08/25/2015 01:25	CH
Ethylbenzene	BRL	5.0		ug/L	211946	1	08/25/2015 01:25	CH
Freon-113	BRL	10		ug/L	211946	1	08/25/2015 01:25	CH
Isopropylbenzene	BRL	5.0		ug/L	211946	1	08/25/2015 01:25	CH
m,p-Xylene	BRL	5.0		ug/L	211946	1	08/25/2015 01:25	CH
Methyl acetate	BRL	5.0		ug/L	211946	1	08/25/2015 01:25	CH
Methyl tert-butyl ether	BRL	5.0		ug/L	211946	1	08/25/2015 01:25	CH
Methylcyclohexane	BRL	5.0		ug/L	211946	1	08/25/2015 01:25	CH
Methylene chloride	BRL	5.0		ug/L	211946	1	08/25/2015 01:25	CH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 27-Aug-15

<b>Client:</b>	Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b>	15229-MW-3
<b>Lab Order</b>	1508H20	<b>Tag Number:</b>	
<b>Project Name:</b>	PPC	<b>Collection Date:</b>	8/17/2015 5:13:00 PM
<b>Lab ID:</b>	1508H20-004A	<b>Matrix:</b>	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
o-Xylene	BRL	5.0		ug/L	211946	1	08/25/2015 01:25	CH
Styrene	BRL	5.0		ug/L	211946	1	08/25/2015 01:25	CH
Tetrachloroethene	BRL	5.0		ug/L	211946	1	08/25/2015 01:25	CH
Toluene	BRL	5.0		ug/L	211946	1	08/25/2015 01:25	CH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	211946	1	08/25/2015 01:25	CH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	211946	1	08/25/2015 01:25	CH
Trichloroethene	BRL	5.0		ug/L	211946	1	08/25/2015 01:25	CH
Trichlorofluoromethane	BRL	5.0		ug/L	211946	1	08/25/2015 01:25	CH
Vinyl chloride	BRL	2.0		ug/L	211946	1	08/25/2015 01:25	CH
Surr: 4-Bromofluorobenzene	95.8	70.6-123		%REC	211946	1	08/25/2015 01:25	CH
Surr: Dibromofluoromethane	91.4	78.7-124		%REC	211946	1	08/25/2015 01:25	CH
Surr: Toluene-d8	92.4	81.3-120		%REC	211946	1	08/25/2015 01:25	CH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

Date: 27-Aug-15

<b>Client:</b>	Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b>	15229-MW-4
<b>Lab Order</b>	1508H20	<b>Tag Number:</b>	
<b>Project Name:</b>	PPC	<b>Collection Date:</b>	8/17/2015 5:43:00 PM
<b>Lab ID:</b>	1508H20-005A	<b>Matrix:</b>	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,1,1-Trichloroethane	BRL	5.0		ug/L	211946	1	08/25/2015 01:49	CH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	211946	1	08/25/2015 01:49	CH
1,1,2-Trichloroethane	BRL	5.0		ug/L	211946	1	08/25/2015 01:49	CH
1,1-Dichloroethane	BRL	5.0		ug/L	211946	1	08/25/2015 01:49	CH
1,1-Dichloroethene	BRL	5.0		ug/L	211946	1	08/25/2015 01:49	CH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	211946	1	08/25/2015 01:49	CH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	211946	1	08/25/2015 01:49	CH
1,2-Dibromoethane	BRL	5.0		ug/L	211946	1	08/25/2015 01:49	CH
1,2-Dichlorobenzene	BRL	5.0		ug/L	211946	1	08/25/2015 01:49	CH
1,2-Dichloroethane	BRL	5.0		ug/L	211946	1	08/25/2015 01:49	CH
1,2-Dichloropropane	BRL	5.0		ug/L	211946	1	08/25/2015 01:49	CH
1,3-Dichlorobenzene	BRL	5.0		ug/L	211946	1	08/25/2015 01:49	CH
1,4-Dichlorobenzene	BRL	5.0		ug/L	211946	1	08/25/2015 01:49	CH
2-Butanone	BRL	50		ug/L	211946	1	08/25/2015 01:49	CH
2-Hexanone	BRL	10		ug/L	211946	1	08/25/2015 01:49	CH
4-Methyl-2-pentanone	BRL	10		ug/L	211946	1	08/25/2015 01:49	CH
Acetone	BRL	50		ug/L	211946	1	08/25/2015 01:49	CH
Benzene	BRL	5.0		ug/L	211946	1	08/25/2015 01:49	CH
Bromodichloromethane	BRL	5.0		ug/L	211946	1	08/25/2015 01:49	CH
Bromoform	BRL	5.0		ug/L	211946	1	08/25/2015 01:49	CH
Bromomethane	BRL	5.0		ug/L	211946	1	08/25/2015 01:49	CH
Carbon disulfide	BRL	5.0		ug/L	211946	1	08/25/2015 01:49	CH
Carbon tetrachloride	BRL	5.0		ug/L	211946	1	08/25/2015 01:49	CH
Chlorobenzene	BRL	5.0		ug/L	211946	1	08/25/2015 01:49	CH
Chloroethane	BRL	10		ug/L	211946	1	08/25/2015 01:49	CH
Chloroform	BRL	5.0		ug/L	211946	1	08/25/2015 01:49	CH
Chloromethane	BRL	10		ug/L	211946	1	08/25/2015 01:49	CH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	211946	1	08/25/2015 01:49	CH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	211946	1	08/25/2015 01:49	CH
Cyclohexane	BRL	5.0		ug/L	211946	1	08/25/2015 01:49	CH
Dibromochloromethane	BRL	5.0		ug/L	211946	1	08/25/2015 01:49	CH
Dichlorodifluoromethane	BRL	10		ug/L	211946	1	08/25/2015 01:49	CH
Ethylbenzene	BRL	5.0		ug/L	211946	1	08/25/2015 01:49	CH
Freon-113	BRL	10		ug/L	211946	1	08/25/2015 01:49	CH
Isopropylbenzene	BRL	5.0		ug/L	211946	1	08/25/2015 01:49	CH
m,p-Xylene	BRL	5.0		ug/L	211946	1	08/25/2015 01:49	CH
Methyl acetate	BRL	5.0		ug/L	211946	1	08/25/2015 01:49	CH
Methyl tert-butyl ether	BRL	5.0		ug/L	211946	1	08/25/2015 01:49	CH
Methylcyclohexane	BRL	5.0		ug/L	211946	1	08/25/2015 01:49	CH
Methylene chloride	BRL	5.0		ug/L	211946	1	08/25/2015 01:49	CH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 27-Aug-15

<b>Client:</b>	Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b>	15229-MW-4
<b>Lab Order</b>	1508H20	<b>Tag Number:</b>	
<b>Project Name:</b>	PPC	<b>Collection Date:</b>	8/17/2015 5:43:00 PM
<b>Lab ID:</b>	1508H20-005A	<b>Matrix:</b>	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
o-Xylene	BRL	5.0		ug/L	211946	1	08/25/2015 01:49	CH
Styrene	BRL	5.0		ug/L	211946	1	08/25/2015 01:49	CH
Tetrachloroethene	BRL	5.0		ug/L	211946	1	08/25/2015 01:49	CH
Toluene	BRL	5.0		ug/L	211946	1	08/25/2015 01:49	CH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	211946	1	08/25/2015 01:49	CH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	211946	1	08/25/2015 01:49	CH
Trichloroethene	BRL	5.0		ug/L	211946	1	08/25/2015 01:49	CH
Trichlorofluoromethane	BRL	5.0		ug/L	211946	1	08/25/2015 01:49	CH
Vinyl chloride	BRL	2.0		ug/L	211946	1	08/25/2015 01:49	CH
Surr: 4-Bromofluorobenzene	93.9	70.6-123		%REC	211946	1	08/25/2015 01:49	CH
Surr: Dibromofluoromethane	90.9	78.7-124		%REC	211946	1	08/25/2015 01:49	CH
Surr: Toluene-d8	90.6	81.3-120		%REC	211946	1	08/25/2015 01:49	CH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 27-Aug-15

<b>Client:</b>	Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b>	15230-MW-5
<b>Lab Order</b>	1508H20	<b>Tag Number:</b>	
<b>Project Name:</b>	PPC	<b>Collection Date:</b>	8/18/2015 11:08:00 AM
<b>Lab ID:</b>	1508H20-006A	<b>Matrix:</b>	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,1,1-Trichloroethane	BRL	5.0		ug/L	211946	1	08/25/2015 02:13	CH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	211946	1	08/25/2015 02:13	CH
1,1,2-Trichloroethane	BRL	5.0		ug/L	211946	1	08/25/2015 02:13	CH
1,1-Dichloroethane	BRL	5.0		ug/L	211946	1	08/25/2015 02:13	CH
1,1-Dichloroethene	BRL	5.0		ug/L	211946	1	08/25/2015 02:13	CH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	211946	1	08/25/2015 02:13	CH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	211946	1	08/25/2015 02:13	CH
1,2-Dibromoethane	BRL	5.0		ug/L	211946	1	08/25/2015 02:13	CH
1,2-Dichlorobenzene	BRL	5.0		ug/L	211946	1	08/25/2015 02:13	CH
1,2-Dichloroethane	BRL	5.0		ug/L	211946	1	08/25/2015 02:13	CH
1,2-Dichloropropane	BRL	5.0		ug/L	211946	1	08/25/2015 02:13	CH
1,3-Dichlorobenzene	BRL	5.0		ug/L	211946	1	08/25/2015 02:13	CH
1,4-Dichlorobenzene	BRL	5.0		ug/L	211946	1	08/25/2015 02:13	CH
2-Butanone	BRL	50		ug/L	211946	1	08/25/2015 02:13	CH
2-Hexanone	BRL	10		ug/L	211946	1	08/25/2015 02:13	CH
4-Methyl-2-pentanone	BRL	10		ug/L	211946	1	08/25/2015 02:13	CH
Acetone	BRL	50		ug/L	211946	1	08/25/2015 02:13	CH
Benzene	BRL	5.0		ug/L	211946	1	08/25/2015 02:13	CH
Bromodichloromethane	BRL	5.0		ug/L	211946	1	08/25/2015 02:13	CH
Bromoform	BRL	5.0		ug/L	211946	1	08/25/2015 02:13	CH
Bromomethane	BRL	5.0		ug/L	211946	1	08/25/2015 02:13	CH
Carbon disulfide	BRL	5.0		ug/L	211946	1	08/25/2015 02:13	CH
Carbon tetrachloride	BRL	5.0		ug/L	211946	1	08/25/2015 02:13	CH
Chlorobenzene	BRL	5.0		ug/L	211946	1	08/25/2015 02:13	CH
Chloroethane	BRL	10		ug/L	211946	1	08/25/2015 02:13	CH
Chloroform	BRL	5.0		ug/L	211946	1	08/25/2015 02:13	CH
Chloromethane	BRL	10		ug/L	211946	1	08/25/2015 02:13	CH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	211946	1	08/25/2015 02:13	CH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	211946	1	08/25/2015 02:13	CH
Cyclohexane	BRL	5.0		ug/L	211946	1	08/25/2015 02:13	CH
Dibromochloromethane	BRL	5.0		ug/L	211946	1	08/25/2015 02:13	CH
Dichlorodifluoromethane	BRL	10		ug/L	211946	1	08/25/2015 02:13	CH
Ethylbenzene	BRL	5.0		ug/L	211946	1	08/25/2015 02:13	CH
Freon-113	BRL	10		ug/L	211946	1	08/25/2015 02:13	CH
Isopropylbenzene	BRL	5.0		ug/L	211946	1	08/25/2015 02:13	CH
m,p-Xylene	BRL	5.0		ug/L	211946	1	08/25/2015 02:13	CH
Methyl acetate	BRL	5.0		ug/L	211946	1	08/25/2015 02:13	CH
Methyl tert-butyl ether	BRL	5.0		ug/L	211946	1	08/25/2015 02:13	CH
Methylcyclohexane	BRL	5.0		ug/L	211946	1	08/25/2015 02:13	CH
Methylene chloride	BRL	5.0		ug/L	211946	1	08/25/2015 02:13	CH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 27-Aug-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15230-MW-5
<b>Lab Order:</b> 1508H20	<b>Tag Number:</b>
<b>Project Name:</b> PPC	<b>Collection Date:</b> 8/18/2015 11:08:00 AM
<b>Lab ID:</b> 1508H20-006A	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
o-Xylene	BRL	5.0		ug/L	211946	1	08/25/2015 02:13	CH
Styrene	BRL	5.0		ug/L	211946	1	08/25/2015 02:13	CH
Tetrachloroethene	BRL	5.0		ug/L	211946	1	08/25/2015 02:13	CH
Toluene	BRL	5.0		ug/L	211946	1	08/25/2015 02:13	CH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	211946	1	08/25/2015 02:13	CH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	211946	1	08/25/2015 02:13	CH
Trichloroethene	BRL	5.0		ug/L	211946	1	08/25/2015 02:13	CH
Trichlorofluoromethane	BRL	5.0		ug/L	211946	1	08/25/2015 02:13	CH
Vinyl chloride	BRL	2.0		ug/L	211946	1	08/25/2015 02:13	CH
Surr: 4-Bromofluorobenzene	93.5	70.6-123		%REC	211946	1	08/25/2015 02:13	CH
Surr: Dibromofluoromethane	94.6	78.7-124		%REC	211946	1	08/25/2015 02:13	CH
Surr: Toluene-d8	91.1	81.3-120		%REC	211946	1	08/25/2015 02:13	CH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit



**Analytical Environmental Services, Inc**

Date: 27-Aug-15

<b>Client:</b>	Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b>	15230-MW-12
<b>Lab Order</b>	1508H20	<b>Tag Number:</b>	
<b>Project Name:</b>	PPC	<b>Collection Date:</b>	8/18/2015 2:48:00 PM
<b>Lab ID:</b>	1508H20-007A	<b>Matrix:</b>	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,1,1-Trichloroethane	BRL	5.0		ug/L	211946	1	08/25/2015 02:36	CH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	211946	1	08/25/2015 02:36	CH
1,1,2-Trichloroethane	BRL	5.0		ug/L	211946	1	08/25/2015 02:36	CH
1,1-Dichloroethane	BRL	5.0		ug/L	211946	1	08/25/2015 02:36	CH
1,1-Dichloroethene	BRL	5.0		ug/L	211946	1	08/25/2015 02:36	CH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	211946	1	08/25/2015 02:36	CH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	211946	1	08/25/2015 02:36	CH
1,2-Dibromoethane	BRL	5.0		ug/L	211946	1	08/25/2015 02:36	CH
1,2-Dichlorobenzene	BRL	5.0		ug/L	211946	1	08/25/2015 02:36	CH
1,2-Dichloroethane	BRL	5.0		ug/L	211946	1	08/25/2015 02:36	CH
1,2-Dichloropropane	BRL	5.0		ug/L	211946	1	08/25/2015 02:36	CH
1,3-Dichlorobenzene	BRL	5.0		ug/L	211946	1	08/25/2015 02:36	CH
1,4-Dichlorobenzene	BRL	5.0		ug/L	211946	1	08/25/2015 02:36	CH
2-Butanone	BRL	50		ug/L	211946	1	08/25/2015 02:36	CH
2-Hexanone	BRL	10		ug/L	211946	1	08/25/2015 02:36	CH
4-Methyl-2-pentanone	BRL	10		ug/L	211946	1	08/25/2015 02:36	CH
Acetone	BRL	50		ug/L	211946	1	08/25/2015 02:36	CH
Benzene	BRL	5.0		ug/L	211946	1	08/25/2015 02:36	CH
Bromodichloromethane	BRL	5.0		ug/L	211946	1	08/25/2015 02:36	CH
Bromoform	BRL	5.0		ug/L	211946	1	08/25/2015 02:36	CH
Bromomethane	BRL	5.0		ug/L	211946	1	08/25/2015 02:36	CH
Carbon disulfide	BRL	5.0		ug/L	211946	1	08/25/2015 02:36	CH
Carbon tetrachloride	BRL	5.0		ug/L	211946	1	08/25/2015 02:36	CH
Chlorobenzene	BRL	5.0		ug/L	211946	1	08/25/2015 02:36	CH
Chloroethane	BRL	10		ug/L	211946	1	08/25/2015 02:36	CH
Chloroform	BRL	5.0		ug/L	211946	1	08/25/2015 02:36	CH
Chloromethane	BRL	10		ug/L	211946	1	08/25/2015 02:36	CH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	211946	1	08/25/2015 02:36	CH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	211946	1	08/25/2015 02:36	CH
Cyclohexane	BRL	5.0		ug/L	211946	1	08/25/2015 02:36	CH
Dibromochloromethane	BRL	5.0		ug/L	211946	1	08/25/2015 02:36	CH
Dichlorodifluoromethane	BRL	10		ug/L	211946	1	08/25/2015 02:36	CH
Ethylbenzene	BRL	5.0		ug/L	211946	1	08/25/2015 02:36	CH
Freon-113	BRL	10		ug/L	211946	1	08/25/2015 02:36	CH
Isopropylbenzene	BRL	5.0		ug/L	211946	1	08/25/2015 02:36	CH
m,p-Xylene	BRL	5.0		ug/L	211946	1	08/25/2015 02:36	CH
Methyl acetate	BRL	5.0		ug/L	211946	1	08/25/2015 02:36	CH
Methyl tert-butyl ether	BRL	5.0		ug/L	211946	1	08/25/2015 02:36	CH
Methylcyclohexane	BRL	5.0		ug/L	211946	1	08/25/2015 02:36	CH
Methylene chloride	BRL	5.0		ug/L	211946	1	08/25/2015 02:36	CH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 27-Aug-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15230-MW-12
<b>Lab Order:</b> 1508H20	<b>Tag Number:</b>
<b>Project Name:</b> PPC	<b>Collection Date:</b> 8/18/2015 2:48:00 PM
<b>Lab ID:</b> 1508H20-007A	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
o-Xylene	BRL	5.0		ug/L	211946	1	08/25/2015 02:36	CH
Styrene	BRL	5.0		ug/L	211946	1	08/25/2015 02:36	CH
Tetrachloroethene	BRL	5.0		ug/L	211946	1	08/25/2015 02:36	CH
Toluene	BRL	5.0		ug/L	211946	1	08/25/2015 02:36	CH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	211946	1	08/25/2015 02:36	CH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	211946	1	08/25/2015 02:36	CH
Trichloroethene	BRL	5.0		ug/L	211946	1	08/25/2015 02:36	CH
Trichlorofluoromethane	BRL	5.0		ug/L	211946	1	08/25/2015 02:36	CH
Vinyl chloride	BRL	2.0		ug/L	211946	1	08/25/2015 02:36	CH
Surr: 4-Bromofluorobenzene	89.6	70.6-123		%REC	211946	1	08/25/2015 02:36	CH
Surr: Dibromofluoromethane	101	78.7-124		%REC	211946	1	08/25/2015 02:36	CH
Surr: Toluene-d8	92.5	81.3-120		%REC	211946	1	08/25/2015 02:36	CH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 27-Aug-15

<b>Client:</b>	Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b>	15230-MW-13
<b>Lab Order</b>	1508H20	<b>Tag Number:</b>	
<b>Project Name:</b>	PPC	<b>Collection Date:</b>	8/18/2015 4:53:00 PM
<b>Lab ID:</b>	1508H20-008A	<b>Matrix:</b>	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,1,1-Trichloroethane	BRL	5.0		ug/L	211946	1	08/25/2015 03:00	CH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	211946	1	08/25/2015 03:00	CH
1,1,2-Trichloroethane	BRL	5.0		ug/L	211946	1	08/25/2015 03:00	CH
1,1-Dichloroethane	BRL	5.0		ug/L	211946	1	08/25/2015 03:00	CH
1,1-Dichloroethene	BRL	5.0		ug/L	211946	1	08/25/2015 03:00	CH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	211946	1	08/25/2015 03:00	CH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	211946	1	08/25/2015 03:00	CH
1,2-Dibromoethane	BRL	5.0		ug/L	211946	1	08/25/2015 03:00	CH
1,2-Dichlorobenzene	BRL	5.0		ug/L	211946	1	08/25/2015 03:00	CH
1,2-Dichloroethane	BRL	5.0		ug/L	211946	1	08/25/2015 03:00	CH
1,2-Dichloropropane	BRL	5.0		ug/L	211946	1	08/25/2015 03:00	CH
1,3-Dichlorobenzene	BRL	5.0		ug/L	211946	1	08/25/2015 03:00	CH
1,4-Dichlorobenzene	BRL	5.0		ug/L	211946	1	08/25/2015 03:00	CH
2-Butanone	BRL	50		ug/L	211946	1	08/25/2015 03:00	CH
2-Hexanone	BRL	10		ug/L	211946	1	08/25/2015 03:00	CH
4-Methyl-2-pentanone	BRL	10		ug/L	211946	1	08/25/2015 03:00	CH
Acetone	BRL	50		ug/L	211946	1	08/25/2015 03:00	CH
Benzene	BRL	5.0		ug/L	211946	1	08/25/2015 03:00	CH
Bromodichloromethane	BRL	5.0		ug/L	211946	1	08/25/2015 03:00	CH
Bromoform	BRL	5.0		ug/L	211946	1	08/25/2015 03:00	CH
Bromomethane	BRL	5.0		ug/L	211946	1	08/25/2015 03:00	CH
Carbon disulfide	BRL	5.0		ug/L	211946	1	08/25/2015 03:00	CH
Carbon tetrachloride	BRL	5.0		ug/L	211946	1	08/25/2015 03:00	CH
Chlorobenzene	BRL	5.0		ug/L	211946	1	08/25/2015 03:00	CH
Chloroethane	BRL	10		ug/L	211946	1	08/25/2015 03:00	CH
Chloroform	BRL	5.0		ug/L	211946	1	08/25/2015 03:00	CH
Chloromethane	BRL	10		ug/L	211946	1	08/25/2015 03:00	CH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	211946	1	08/25/2015 03:00	CH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	211946	1	08/25/2015 03:00	CH
Cyclohexane	BRL	5.0		ug/L	211946	1	08/25/2015 03:00	CH
Dibromochloromethane	BRL	5.0		ug/L	211946	1	08/25/2015 03:00	CH
Dichlorodifluoromethane	BRL	10		ug/L	211946	1	08/25/2015 03:00	CH
Ethylbenzene	BRL	5.0		ug/L	211946	1	08/25/2015 03:00	CH
Freon-113	BRL	10		ug/L	211946	1	08/25/2015 03:00	CH
Isopropylbenzene	BRL	5.0		ug/L	211946	1	08/25/2015 03:00	CH
m,p-Xylene	BRL	5.0		ug/L	211946	1	08/25/2015 03:00	CH
Methyl acetate	BRL	5.0		ug/L	211946	1	08/25/2015 03:00	CH
Methyl tert-butyl ether	BRL	5.0		ug/L	211946	1	08/25/2015 03:00	CH
Methylcyclohexane	BRL	5.0		ug/L	211946	1	08/25/2015 03:00	CH
Methylene chloride	BRL	5.0		ug/L	211946	1	08/25/2015 03:00	CH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 27-Aug-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15230-MW-13
<b>Lab Order:</b> 1508H20	<b>Tag Number:</b>
<b>Project Name:</b> PPC	<b>Collection Date:</b> 8/18/2015 4:53:00 PM
<b>Lab ID:</b> 1508H20-008A	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
o-Xylene	BRL	5.0		ug/L	211946	1	08/25/2015 03:00	CH
Styrene	BRL	5.0		ug/L	211946	1	08/25/2015 03:00	CH
Tetrachloroethene	BRL	5.0		ug/L	211946	1	08/25/2015 03:00	CH
Toluene	BRL	5.0		ug/L	211946	1	08/25/2015 03:00	CH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	211946	1	08/25/2015 03:00	CH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	211946	1	08/25/2015 03:00	CH
Trichloroethene	BRL	5.0		ug/L	211946	1	08/25/2015 03:00	CH
Trichlorofluoromethane	BRL	5.0		ug/L	211946	1	08/25/2015 03:00	CH
Vinyl chloride	BRL	2.0		ug/L	211946	1	08/25/2015 03:00	CH
Surr: 4-Bromofluorobenzene	91.5	70.6-123		%REC	211946	1	08/25/2015 03:00	CH
Surr: Dibromofluoromethane	98.7	78.7-124		%REC	211946	1	08/25/2015 03:00	CH
Surr: Toluene-d8	92.2	81.3-120		%REC	211946	1	08/25/2015 03:00	CH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 27-Aug-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15231-MW-8
<b>Lab Order:</b> 1508H20	<b>Tag Number:</b>
<b>Project Name:</b> PPC	<b>Collection Date:</b> 8/19/2015 11:58:00 AM
<b>Lab ID:</b> 1508H20-009A	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,1,1-Trichloroethane	BRL	5.0		ug/L	211946	1	08/25/2015 03:24	CH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	211946	1	08/25/2015 03:24	CH
1,1,2-Trichloroethane	BRL	5.0		ug/L	211946	1	08/25/2015 03:24	CH
1,1-Dichloroethane	BRL	5.0		ug/L	211946	1	08/25/2015 03:24	CH
1,1-Dichloroethene	BRL	5.0		ug/L	211946	1	08/25/2015 03:24	CH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	211946	1	08/25/2015 03:24	CH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	211946	1	08/25/2015 03:24	CH
1,2-Dibromoethane	BRL	5.0		ug/L	211946	1	08/25/2015 03:24	CH
1,2-Dichlorobenzene	BRL	5.0		ug/L	211946	1	08/25/2015 03:24	CH
1,2-Dichloroethane	BRL	5.0		ug/L	211946	1	08/25/2015 03:24	CH
1,2-Dichloropropane	BRL	5.0		ug/L	211946	1	08/25/2015 03:24	CH
1,3-Dichlorobenzene	BRL	5.0		ug/L	211946	1	08/25/2015 03:24	CH
1,4-Dichlorobenzene	BRL	5.0		ug/L	211946	1	08/25/2015 03:24	CH
2-Butanone	BRL	50		ug/L	211946	1	08/25/2015 03:24	CH
2-Hexanone	BRL	10		ug/L	211946	1	08/25/2015 03:24	CH
4-Methyl-2-pentanone	BRL	10		ug/L	211946	1	08/25/2015 03:24	CH
Acetone	BRL	50		ug/L	211946	1	08/25/2015 03:24	CH
Benzene	BRL	5.0		ug/L	211946	1	08/25/2015 03:24	CH
Bromodichloromethane	BRL	5.0		ug/L	211946	1	08/25/2015 03:24	CH
Bromoform	BRL	5.0		ug/L	211946	1	08/25/2015 03:24	CH
Bromomethane	BRL	5.0		ug/L	211946	1	08/25/2015 03:24	CH
Carbon disulfide	BRL	5.0		ug/L	211946	1	08/25/2015 03:24	CH
Carbon tetrachloride	BRL	5.0		ug/L	211946	1	08/25/2015 03:24	CH
Chlorobenzene	BRL	5.0		ug/L	211946	1	08/25/2015 03:24	CH
Chloroethane	BRL	10		ug/L	211946	1	08/25/2015 03:24	CH
Chloroform	BRL	5.0		ug/L	211946	1	08/25/2015 03:24	CH
Chloromethane	BRL	10		ug/L	211946	1	08/25/2015 03:24	CH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	211946	1	08/25/2015 03:24	CH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	211946	1	08/25/2015 03:24	CH
Cyclohexane	BRL	5.0		ug/L	211946	1	08/25/2015 03:24	CH
Dibromochloromethane	BRL	5.0		ug/L	211946	1	08/25/2015 03:24	CH
Dichlorodifluoromethane	BRL	10		ug/L	211946	1	08/25/2015 03:24	CH
Ethylbenzene	BRL	5.0		ug/L	211946	1	08/25/2015 03:24	CH
Freon-113	BRL	10		ug/L	211946	1	08/25/2015 03:24	CH
Isopropylbenzene	BRL	5.0		ug/L	211946	1	08/25/2015 03:24	CH
m,p-Xylene	BRL	5.0		ug/L	211946	1	08/25/2015 03:24	CH
Methyl acetate	BRL	5.0		ug/L	211946	1	08/25/2015 03:24	CH
Methyl tert-butyl ether	BRL	5.0		ug/L	211946	1	08/25/2015 03:24	CH
Methylcyclohexane	BRL	5.0		ug/L	211946	1	08/25/2015 03:24	CH
Methylene chloride	BRL	5.0		ug/L	211946	1	08/25/2015 03:24	CH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b>	Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b>	15231-MW-8
<b>Lab Order</b>	1508H20	<b>Tag Number:</b>	
<b>Project Name:</b>	PPC	<b>Collection Date:</b>	8/19/2015 11:58:00 AM
<b>Lab ID:</b>	1508H20-009A	<b>Matrix:</b>	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
o-Xylene	BRL	5.0		ug/L	211946	1	08/25/2015 03:24	CH
Styrene	BRL	5.0		ug/L	211946	1	08/25/2015 03:24	CH
Tetrachloroethene	BRL	5.0		ug/L	211946	1	08/25/2015 03:24	CH
Toluene	BRL	5.0		ug/L	211946	1	08/25/2015 03:24	CH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	211946	1	08/25/2015 03:24	CH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	211946	1	08/25/2015 03:24	CH
Trichloroethene	BRL	5.0		ug/L	211946	1	08/25/2015 03:24	CH
Trichlorofluoromethane	BRL	5.0		ug/L	211946	1	08/25/2015 03:24	CH
Vinyl chloride	BRL	2.0		ug/L	211946	1	08/25/2015 03:24	CH
Surr: 4-Bromofluorobenzene	93	70.6-123		%REC	211946	1	08/25/2015 03:24	CH
Surr: Dibromofluoromethane	92.4	78.7-124		%REC	211946	1	08/25/2015 03:24	CH
Surr: Toluene-d8	90.2	81.3-120		%REC	211946	1	08/25/2015 03:24	CH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

Date: 27-Aug-15

<b>Client:</b>	Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b>	15231-MW-9
<b>Lab Order</b>	1508H20	<b>Tag Number:</b>	
<b>Project Name:</b>	PPC	<b>Collection Date:</b>	8/19/2015 12:10:00 PM
<b>Lab ID:</b>	1508H20-010A	<b>Matrix:</b>	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,1,1-Trichloroethane	BRL	5.0		ug/L	211946	1	08/25/2015 03:48	CH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	211946	1	08/25/2015 03:48	CH
1,1,2-Trichloroethane	BRL	5.0		ug/L	211946	1	08/25/2015 03:48	CH
1,1-Dichloroethane	BRL	5.0		ug/L	211946	1	08/25/2015 03:48	CH
1,1-Dichloroethene	BRL	5.0		ug/L	211946	1	08/25/2015 03:48	CH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	211946	1	08/25/2015 03:48	CH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	211946	1	08/25/2015 03:48	CH
1,2-Dibromoethane	BRL	5.0		ug/L	211946	1	08/25/2015 03:48	CH
1,2-Dichlorobenzene	BRL	5.0		ug/L	211946	1	08/25/2015 03:48	CH
1,2-Dichloroethane	BRL	5.0		ug/L	211946	1	08/25/2015 03:48	CH
1,2-Dichloropropane	BRL	5.0		ug/L	211946	1	08/25/2015 03:48	CH
1,3-Dichlorobenzene	BRL	5.0		ug/L	211946	1	08/25/2015 03:48	CH
1,4-Dichlorobenzene	BRL	5.0		ug/L	211946	1	08/25/2015 03:48	CH
2-Butanone	BRL	50		ug/L	211946	1	08/25/2015 03:48	CH
2-Hexanone	BRL	10		ug/L	211946	1	08/25/2015 03:48	CH
4-Methyl-2-pentanone	BRL	10		ug/L	211946	1	08/25/2015 03:48	CH
Acetone	BRL	50		ug/L	211946	1	08/25/2015 03:48	CH
Benzene	BRL	5.0		ug/L	211946	1	08/25/2015 03:48	CH
Bromodichloromethane	BRL	5.0		ug/L	211946	1	08/25/2015 03:48	CH
Bromoform	BRL	5.0		ug/L	211946	1	08/25/2015 03:48	CH
Bromomethane	BRL	5.0		ug/L	211946	1	08/25/2015 03:48	CH
Carbon disulfide	BRL	5.0		ug/L	211946	1	08/25/2015 03:48	CH
Carbon tetrachloride	BRL	5.0		ug/L	211946	1	08/25/2015 03:48	CH
Chlorobenzene	BRL	5.0		ug/L	211946	1	08/25/2015 03:48	CH
Chloroethane	BRL	10		ug/L	211946	1	08/25/2015 03:48	CH
Chloroform	BRL	5.0		ug/L	211946	1	08/25/2015 03:48	CH
Chloromethane	BRL	10		ug/L	211946	1	08/25/2015 03:48	CH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	211946	1	08/25/2015 03:48	CH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	211946	1	08/25/2015 03:48	CH
Cyclohexane	BRL	5.0		ug/L	211946	1	08/25/2015 03:48	CH
Dibromochloromethane	BRL	5.0		ug/L	211946	1	08/25/2015 03:48	CH
Dichlorodifluoromethane	BRL	10		ug/L	211946	1	08/25/2015 03:48	CH
Ethylbenzene	BRL	5.0		ug/L	211946	1	08/25/2015 03:48	CH
Freon-113	BRL	10		ug/L	211946	1	08/25/2015 03:48	CH
Isopropylbenzene	BRL	5.0		ug/L	211946	1	08/25/2015 03:48	CH
m,p-Xylene	BRL	5.0		ug/L	211946	1	08/25/2015 03:48	CH
Methyl acetate	BRL	5.0		ug/L	211946	1	08/25/2015 03:48	CH
Methyl tert-butyl ether	BRL	5.0		ug/L	211946	1	08/25/2015 03:48	CH
Methylcyclohexane	BRL	5.0		ug/L	211946	1	08/25/2015 03:48	CH
Methylene chloride	BRL	5.0		ug/L	211946	1	08/25/2015 03:48	CH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 27-Aug-15

<b>Client:</b>	Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b>	15231-MW-9
<b>Lab Order</b>	1508H20	<b>Tag Number:</b>	
<b>Project Name:</b>	PPC	<b>Collection Date:</b>	8/19/2015 12:10:00 PM
<b>Lab ID:</b>	1508H20-010A	<b>Matrix:</b>	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>				<b>(SW5030B)</b>				
o-Xylene	BRL	5.0		ug/L	211946	1	08/25/2015 03:48	CH
Styrene	BRL	5.0		ug/L	211946	1	08/25/2015 03:48	CH
Tetrachloroethene	BRL	5.0		ug/L	211946	1	08/25/2015 03:48	CH
Toluene	BRL	5.0		ug/L	211946	1	08/25/2015 03:48	CH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	211946	1	08/25/2015 03:48	CH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	211946	1	08/25/2015 03:48	CH
Trichloroethene	BRL	5.0		ug/L	211946	1	08/25/2015 03:48	CH
Trichlorofluoromethane	BRL	5.0		ug/L	211946	1	08/25/2015 03:48	CH
Vinyl chloride	BRL	2.0		ug/L	211946	1	08/25/2015 03:48	CH
Surr: 4-Bromofluorobenzene	95.4	70.6-123		%REC	211946	1	08/25/2015 03:48	CH
Surr: Dibromofluoromethane	95.7	78.7-124		%REC	211946	1	08/25/2015 03:48	CH
Surr: Toluene-d8	95.8	81.3-120		%REC	211946	1	08/25/2015 03:48	CH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit



**Analytical Environmental Services, Inc**

Date: 27-Aug-15

<b>Client:</b>	Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b>	15231-MW-7
<b>Lab Order</b>	1508H20	<b>Tag Number:</b>	
<b>Project Name:</b>	PPC	<b>Collection Date:</b>	8/19/2015 2:33:00 PM
<b>Lab ID:</b>	1508H20-011A	<b>Matrix:</b>	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,1,1-Trichloroethane	BRL	5.0		ug/L	211946	1	08/25/2015 04:12	CH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	211946	1	08/25/2015 04:12	CH
1,1,2-Trichloroethane	BRL	5.0		ug/L	211946	1	08/25/2015 04:12	CH
1,1-Dichloroethane	BRL	5.0		ug/L	211946	1	08/25/2015 04:12	CH
1,1-Dichloroethene	BRL	5.0		ug/L	211946	1	08/25/2015 04:12	CH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	211946	1	08/25/2015 04:12	CH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	211946	1	08/25/2015 04:12	CH
1,2-Dibromoethane	BRL	5.0		ug/L	211946	1	08/25/2015 04:12	CH
1,2-Dichlorobenzene	BRL	5.0		ug/L	211946	1	08/25/2015 04:12	CH
1,2-Dichloroethane	BRL	5.0		ug/L	211946	1	08/25/2015 04:12	CH
1,2-Dichloropropane	BRL	5.0		ug/L	211946	1	08/25/2015 04:12	CH
1,3-Dichlorobenzene	BRL	5.0		ug/L	211946	1	08/25/2015 04:12	CH
1,4-Dichlorobenzene	BRL	5.0		ug/L	211946	1	08/25/2015 04:12	CH
2-Butanone	BRL	50		ug/L	211946	1	08/25/2015 04:12	CH
2-Hexanone	BRL	10		ug/L	211946	1	08/25/2015 04:12	CH
4-Methyl-2-pentanone	BRL	10		ug/L	211946	1	08/25/2015 04:12	CH
Acetone	BRL	50		ug/L	211946	1	08/25/2015 04:12	CH
Benzene	BRL	5.0		ug/L	211946	1	08/25/2015 04:12	CH
Bromodichloromethane	BRL	5.0		ug/L	211946	1	08/25/2015 04:12	CH
Bromoform	BRL	5.0		ug/L	211946	1	08/25/2015 04:12	CH
Bromomethane	BRL	5.0		ug/L	211946	1	08/25/2015 04:12	CH
Carbon disulfide	BRL	5.0		ug/L	211946	1	08/25/2015 04:12	CH
Carbon tetrachloride	BRL	5.0		ug/L	211946	1	08/25/2015 04:12	CH
Chlorobenzene	BRL	5.0		ug/L	211946	1	08/25/2015 04:12	CH
Chloroethane	BRL	10		ug/L	211946	1	08/25/2015 04:12	CH
Chloroform	BRL	5.0		ug/L	211946	1	08/25/2015 04:12	CH
Chloromethane	BRL	10		ug/L	211946	1	08/25/2015 04:12	CH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	211946	1	08/25/2015 04:12	CH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	211946	1	08/25/2015 04:12	CH
Cyclohexane	BRL	5.0		ug/L	211946	1	08/25/2015 04:12	CH
Dibromochloromethane	BRL	5.0		ug/L	211946	1	08/25/2015 04:12	CH
Dichlorodifluoromethane	BRL	10		ug/L	211946	1	08/25/2015 04:12	CH
Ethylbenzene	BRL	5.0		ug/L	211946	1	08/25/2015 04:12	CH
Freon-113	BRL	10		ug/L	211946	1	08/25/2015 04:12	CH
Isopropylbenzene	BRL	5.0		ug/L	211946	1	08/25/2015 04:12	CH
m,p-Xylene	BRL	5.0		ug/L	211946	1	08/25/2015 04:12	CH
Methyl acetate	BRL	5.0		ug/L	211946	1	08/25/2015 04:12	CH
Methyl tert-butyl ether	BRL	5.0		ug/L	211946	1	08/25/2015 04:12	CH
Methylcyclohexane	BRL	5.0		ug/L	211946	1	08/25/2015 04:12	CH
Methylene chloride	BRL	5.0		ug/L	211946	1	08/25/2015 04:12	CH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 27-Aug-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15231-MW-7
<b>Lab Order:</b> 1508H20	<b>Tag Number:</b>
<b>Project Name:</b> PPC	<b>Collection Date:</b> 8/19/2015 2:33:00 PM
<b>Lab ID:</b> 1508H20-011A	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
o-Xylene	BRL	5.0		ug/L	211946	1	08/25/2015 04:12	CH
Styrene	BRL	5.0		ug/L	211946	1	08/25/2015 04:12	CH
Tetrachloroethene	BRL	5.0		ug/L	211946	1	08/25/2015 04:12	CH
Toluene	BRL	5.0		ug/L	211946	1	08/25/2015 04:12	CH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	211946	1	08/25/2015 04:12	CH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	211946	1	08/25/2015 04:12	CH
Trichloroethene	BRL	5.0		ug/L	211946	1	08/25/2015 04:12	CH
Trichlorofluoromethane	BRL	5.0		ug/L	211946	1	08/25/2015 04:12	CH
Vinyl chloride	BRL	2.0		ug/L	211946	1	08/25/2015 04:12	CH
Surr: 4-Bromofluorobenzene	87.5	70.6-123		%REC	211946	1	08/25/2015 04:12	CH
Surr: Dibromofluoromethane	97.4	78.7-124		%REC	211946	1	08/25/2015 04:12	CH
Surr: Toluene-d8	90.3	81.3-120		%REC	211946	1	08/25/2015 04:12	CH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 27-Aug-15

<b>Client:</b>	Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b>	15231-MW-11
<b>Lab Order</b>	1508H20	<b>Tag Number:</b>	
<b>Project Name:</b>	PPC	<b>Collection Date:</b>	8/19/2015 3:18:00 PM
<b>Lab ID:</b>	1508H20-012A	<b>Matrix:</b>	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,1,1-Trichloroethane	BRL	5.0		ug/L	211946	1	08/25/2015 04:36	CH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	211946	1	08/25/2015 04:36	CH
1,1,2-Trichloroethane	BRL	5.0		ug/L	211946	1	08/25/2015 04:36	CH
1,1-Dichloroethane	BRL	5.0		ug/L	211946	1	08/25/2015 04:36	CH
1,1-Dichloroethene	BRL	5.0		ug/L	211946	1	08/25/2015 04:36	CH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	211946	1	08/25/2015 04:36	CH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	211946	1	08/25/2015 04:36	CH
1,2-Dibromoethane	BRL	5.0		ug/L	211946	1	08/25/2015 04:36	CH
1,2-Dichlorobenzene	BRL	5.0		ug/L	211946	1	08/25/2015 04:36	CH
1,2-Dichloroethane	BRL	5.0		ug/L	211946	1	08/25/2015 04:36	CH
1,2-Dichloropropane	BRL	5.0		ug/L	211946	1	08/25/2015 04:36	CH
1,3-Dichlorobenzene	BRL	5.0		ug/L	211946	1	08/25/2015 04:36	CH
1,4-Dichlorobenzene	BRL	5.0		ug/L	211946	1	08/25/2015 04:36	CH
2-Butanone	BRL	50		ug/L	211946	1	08/25/2015 04:36	CH
2-Hexanone	BRL	10		ug/L	211946	1	08/25/2015 04:36	CH
4-Methyl-2-pentanone	BRL	10		ug/L	211946	1	08/25/2015 04:36	CH
Acetone	BRL	50		ug/L	211946	1	08/25/2015 04:36	CH
Benzene	BRL	5.0		ug/L	211946	1	08/25/2015 04:36	CH
Bromodichloromethane	BRL	5.0		ug/L	211946	1	08/25/2015 04:36	CH
Bromoform	BRL	5.0		ug/L	211946	1	08/25/2015 04:36	CH
Bromomethane	BRL	5.0		ug/L	211946	1	08/25/2015 04:36	CH
Carbon disulfide	BRL	5.0		ug/L	211946	1	08/25/2015 04:36	CH
Carbon tetrachloride	BRL	5.0		ug/L	211946	1	08/25/2015 04:36	CH
Chlorobenzene	BRL	5.0		ug/L	211946	1	08/25/2015 04:36	CH
Chloroethane	BRL	10		ug/L	211946	1	08/25/2015 04:36	CH
Chloroform	BRL	5.0		ug/L	211946	1	08/25/2015 04:36	CH
Chloromethane	BRL	10		ug/L	211946	1	08/25/2015 04:36	CH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	211946	1	08/25/2015 04:36	CH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	211946	1	08/25/2015 04:36	CH
Cyclohexane	BRL	5.0		ug/L	211946	1	08/25/2015 04:36	CH
Dibromochloromethane	BRL	5.0		ug/L	211946	1	08/25/2015 04:36	CH
Dichlorodifluoromethane	BRL	10		ug/L	211946	1	08/25/2015 04:36	CH
Ethylbenzene	BRL	5.0		ug/L	211946	1	08/25/2015 04:36	CH
Freon-113	BRL	10		ug/L	211946	1	08/25/2015 04:36	CH
Isopropylbenzene	BRL	5.0		ug/L	211946	1	08/25/2015 04:36	CH
m,p-Xylene	BRL	5.0		ug/L	211946	1	08/25/2015 04:36	CH
Methyl acetate	BRL	5.0		ug/L	211946	1	08/25/2015 04:36	CH
Methyl tert-butyl ether	BRL	5.0		ug/L	211946	1	08/25/2015 04:36	CH
Methylcyclohexane	BRL	5.0		ug/L	211946	1	08/25/2015 04:36	CH
Methylene chloride	BRL	5.0		ug/L	211946	1	08/25/2015 04:36	CH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b>	Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b>	15231-MW-11
<b>Lab Order</b>	1508H20	<b>Tag Number:</b>	
<b>Project Name:</b>	PPC	<b>Collection Date:</b>	8/19/2015 3:18:00 PM
<b>Lab ID:</b>	1508H20-012A	<b>Matrix:</b>	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>				<b>(SW5030B)</b>				
o-Xylene	BRL	5.0		ug/L	211946	1	08/25/2015 04:36	CH
Styrene	BRL	5.0		ug/L	211946	1	08/25/2015 04:36	CH
Tetrachloroethene	BRL	5.0		ug/L	211946	1	08/25/2015 04:36	CH
Toluene	BRL	5.0		ug/L	211946	1	08/25/2015 04:36	CH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	211946	1	08/25/2015 04:36	CH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	211946	1	08/25/2015 04:36	CH
Trichloroethene	BRL	5.0		ug/L	211946	1	08/25/2015 04:36	CH
Trichlorofluoromethane	BRL	5.0		ug/L	211946	1	08/25/2015 04:36	CH
Vinyl chloride	BRL	2.0		ug/L	211946	1	08/25/2015 04:36	CH
Surr: 4-Bromofluorobenzene	89.8	70.6-123		%REC	211946	1	08/25/2015 04:36	CH
Surr: Dibromofluoromethane	96.8	78.7-124		%REC	211946	1	08/25/2015 04:36	CH
Surr: Toluene-d8	92.7	81.3-120		%REC	211946	1	08/25/2015 04:36	CH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 27-Aug-15

<b>Client:</b>	Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b>	15231-MW-10
<b>Lab Order</b>	1508H20	<b>Tag Number:</b>	
<b>Project Name:</b>	PPC	<b>Collection Date:</b>	8/19/2015 4:23:00 PM
<b>Lab ID:</b>	1508H20-013A	<b>Matrix:</b>	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,1,1-Trichloroethane	BRL	5.0		ug/L	211946	1	08/25/2015 04:59	CH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	211946	1	08/25/2015 04:59	CH
1,1,2-Trichloroethane	BRL	5.0		ug/L	211946	1	08/25/2015 04:59	CH
1,1-Dichloroethane	BRL	5.0		ug/L	211946	1	08/25/2015 04:59	CH
1,1-Dichloroethene	BRL	5.0		ug/L	211946	1	08/25/2015 04:59	CH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	211946	1	08/25/2015 04:59	CH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	211946	1	08/25/2015 04:59	CH
1,2-Dibromoethane	BRL	5.0		ug/L	211946	1	08/25/2015 04:59	CH
1,2-Dichlorobenzene	BRL	5.0		ug/L	211946	1	08/25/2015 04:59	CH
1,2-Dichloroethane	BRL	5.0		ug/L	211946	1	08/25/2015 04:59	CH
1,2-Dichloropropane	BRL	5.0		ug/L	211946	1	08/25/2015 04:59	CH
1,3-Dichlorobenzene	BRL	5.0		ug/L	211946	1	08/25/2015 04:59	CH
1,4-Dichlorobenzene	BRL	5.0		ug/L	211946	1	08/25/2015 04:59	CH
2-Butanone	BRL	50		ug/L	211946	1	08/25/2015 04:59	CH
2-Hexanone	BRL	10		ug/L	211946	1	08/25/2015 04:59	CH
4-Methyl-2-pentanone	BRL	10		ug/L	211946	1	08/25/2015 04:59	CH
Acetone	BRL	50		ug/L	211946	1	08/25/2015 04:59	CH
Benzene	BRL	5.0		ug/L	211946	1	08/25/2015 04:59	CH
Bromodichloromethane	BRL	5.0		ug/L	211946	1	08/25/2015 04:59	CH
Bromoform	BRL	5.0		ug/L	211946	1	08/25/2015 04:59	CH
Bromomethane	BRL	5.0		ug/L	211946	1	08/25/2015 04:59	CH
Carbon disulfide	BRL	5.0		ug/L	211946	1	08/25/2015 04:59	CH
Carbon tetrachloride	BRL	5.0		ug/L	211946	1	08/25/2015 04:59	CH
Chlorobenzene	BRL	5.0		ug/L	211946	1	08/25/2015 04:59	CH
Chloroethane	BRL	10		ug/L	211946	1	08/25/2015 04:59	CH
Chloroform	BRL	5.0		ug/L	211946	1	08/25/2015 04:59	CH
Chloromethane	BRL	10		ug/L	211946	1	08/25/2015 04:59	CH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	211946	1	08/25/2015 04:59	CH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	211946	1	08/25/2015 04:59	CH
Cyclohexane	BRL	5.0		ug/L	211946	1	08/25/2015 04:59	CH
Dibromochloromethane	BRL	5.0		ug/L	211946	1	08/25/2015 04:59	CH
Dichlorodifluoromethane	BRL	10		ug/L	211946	1	08/25/2015 04:59	CH
Ethylbenzene	BRL	5.0		ug/L	211946	1	08/25/2015 04:59	CH
Freon-113	BRL	10		ug/L	211946	1	08/25/2015 04:59	CH
Isopropylbenzene	BRL	5.0		ug/L	211946	1	08/25/2015 04:59	CH
m,p-Xylene	BRL	5.0		ug/L	211946	1	08/25/2015 04:59	CH
Methyl acetate	BRL	5.0		ug/L	211946	1	08/25/2015 04:59	CH
Methyl tert-butyl ether	BRL	5.0		ug/L	211946	1	08/25/2015 04:59	CH
Methylcyclohexane	BRL	5.0		ug/L	211946	1	08/25/2015 04:59	CH
Methylene chloride	BRL	5.0		ug/L	211946	1	08/25/2015 04:59	CH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b>	Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b>	15231-MW-10
<b>Lab Order</b>	1508H20	<b>Tag Number:</b>	
<b>Project Name:</b>	PPC	<b>Collection Date:</b>	8/19/2015 4:23:00 PM
<b>Lab ID:</b>	1508H20-013A	<b>Matrix:</b>	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
o-Xylene	BRL	5.0		ug/L	211946	1	08/25/2015 04:59	CH
Styrene	BRL	5.0		ug/L	211946	1	08/25/2015 04:59	CH
Tetrachloroethene	BRL	5.0		ug/L	211946	1	08/25/2015 04:59	CH
Toluene	BRL	5.0		ug/L	211946	1	08/25/2015 04:59	CH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	211946	1	08/25/2015 04:59	CH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	211946	1	08/25/2015 04:59	CH
Trichloroethene	BRL	5.0		ug/L	211946	1	08/25/2015 04:59	CH
Trichlorofluoromethane	BRL	5.0		ug/L	211946	1	08/25/2015 04:59	CH
Vinyl chloride	BRL	2.0		ug/L	211946	1	08/25/2015 04:59	CH
Surr: 4-Bromofluorobenzene	89.9	70.6-123		%REC	211946	1	08/25/2015 04:59	CH
Surr: Dibromofluoromethane	95.2	78.7-124		%REC	211946	1	08/25/2015 04:59	CH
Surr: Toluene-d8	93.4	81.3-120		%REC	211946	1	08/25/2015 04:59	CH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 27-Aug-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15231-DUP
<b>Lab Order:</b> 1508H20	<b>Tag Number:</b>
<b>Project Name:</b> PPC	<b>Collection Date:</b> 8/19/2015 12:00:00 PM
<b>Lab ID:</b> 1508H20-014A	<b>Matrix:</b> Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,1,1-Trichloroethane	BRL	5.0		ug/L	211946	1	08/25/2015 05:23	CH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	211946	1	08/25/2015 05:23	CH
1,1,2-Trichloroethane	BRL	5.0		ug/L	211946	1	08/25/2015 05:23	CH
1,1-Dichloroethane	BRL	5.0		ug/L	211946	1	08/25/2015 05:23	CH
1,1-Dichloroethene	BRL	5.0		ug/L	211946	1	08/25/2015 05:23	CH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	211946	1	08/25/2015 05:23	CH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	211946	1	08/25/2015 05:23	CH
1,2-Dibromoethane	BRL	5.0		ug/L	211946	1	08/25/2015 05:23	CH
1,2-Dichlorobenzene	BRL	5.0		ug/L	211946	1	08/25/2015 05:23	CH
1,2-Dichloroethane	BRL	5.0		ug/L	211946	1	08/25/2015 05:23	CH
1,2-Dichloropropane	BRL	5.0		ug/L	211946	1	08/25/2015 05:23	CH
1,3-Dichlorobenzene	BRL	5.0		ug/L	211946	1	08/25/2015 05:23	CH
1,4-Dichlorobenzene	BRL	5.0		ug/L	211946	1	08/25/2015 05:23	CH
2-Butanone	BRL	50		ug/L	211946	1	08/25/2015 05:23	CH
2-Hexanone	BRL	10		ug/L	211946	1	08/25/2015 05:23	CH
4-Methyl-2-pentanone	BRL	10		ug/L	211946	1	08/25/2015 05:23	CH
Acetone	BRL	50		ug/L	211946	1	08/25/2015 05:23	CH
Benzene	BRL	5.0		ug/L	211946	1	08/25/2015 05:23	CH
Bromodichloromethane	BRL	5.0		ug/L	211946	1	08/25/2015 05:23	CH
Bromoform	BRL	5.0		ug/L	211946	1	08/25/2015 05:23	CH
Bromomethane	BRL	5.0		ug/L	211946	1	08/25/2015 05:23	CH
Carbon disulfide	BRL	5.0		ug/L	211946	1	08/25/2015 05:23	CH
Carbon tetrachloride	BRL	5.0		ug/L	211946	1	08/25/2015 05:23	CH
Chlorobenzene	BRL	5.0		ug/L	211946	1	08/25/2015 05:23	CH
Chloroethane	BRL	10		ug/L	211946	1	08/25/2015 05:23	CH
Chloroform	BRL	5.0		ug/L	211946	1	08/25/2015 05:23	CH
Chloromethane	BRL	10		ug/L	211946	1	08/25/2015 05:23	CH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	211946	1	08/25/2015 05:23	CH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	211946	1	08/25/2015 05:23	CH
Cyclohexane	BRL	5.0		ug/L	211946	1	08/25/2015 05:23	CH
Dibromochloromethane	BRL	5.0		ug/L	211946	1	08/25/2015 05:23	CH
Dichlorodifluoromethane	BRL	10		ug/L	211946	1	08/25/2015 05:23	CH
Ethylbenzene	BRL	5.0		ug/L	211946	1	08/25/2015 05:23	CH
Freon-113	BRL	10		ug/L	211946	1	08/25/2015 05:23	CH
Isopropylbenzene	BRL	5.0		ug/L	211946	1	08/25/2015 05:23	CH
m,p-Xylene	BRL	5.0		ug/L	211946	1	08/25/2015 05:23	CH
Methyl acetate	BRL	5.0		ug/L	211946	1	08/25/2015 05:23	CH
Methyl tert-butyl ether	BRL	5.0		ug/L	211946	1	08/25/2015 05:23	CH
Methylcyclohexane	BRL	5.0		ug/L	211946	1	08/25/2015 05:23	CH
Methylene chloride	BRL	5.0		ug/L	211946	1	08/25/2015 05:23	CH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b>	Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b>	15231-DUP
<b>Lab Order</b>	1508H20	<b>Tag Number:</b>	
<b>Project Name:</b>	PPC	<b>Collection Date:</b>	8/19/2015 12:00:00 PM
<b>Lab ID:</b>	1508H20-014A	<b>Matrix:</b>	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
o-Xylene	BRL	5.0		ug/L	211946	1	08/25/2015 05:23	CH
Styrene	BRL	5.0		ug/L	211946	1	08/25/2015 05:23	CH
Tetrachloroethene	BRL	5.0		ug/L	211946	1	08/25/2015 05:23	CH
Toluene	BRL	5.0		ug/L	211946	1	08/25/2015 05:23	CH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	211946	1	08/25/2015 05:23	CH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	211946	1	08/25/2015 05:23	CH
Trichloroethene	BRL	5.0		ug/L	211946	1	08/25/2015 05:23	CH
Trichlorofluoromethane	BRL	5.0		ug/L	211946	1	08/25/2015 05:23	CH
Vinyl chloride	BRL	2.0		ug/L	211946	1	08/25/2015 05:23	CH
Surr: 4-Bromofluorobenzene	88.6	70.6-123		%REC	211946	1	08/25/2015 05:23	CH
Surr: Dibromofluoromethane	98	78.7-124		%REC	211946	1	08/25/2015 05:23	CH
Surr: Toluene-d8	94.1	81.3-120		%REC	211946	1	08/25/2015 05:23	CH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
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- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit



<b>Client:</b>	Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b>	15229-SB-25-2
<b>Lab Order</b>	1508H20	<b>Tag Number:</b>	
<b>Project Name:</b>	PPC	<b>Collection Date:</b>	8/17/2015 10:09:00 AM
<b>Lab ID:</b>	1508H20-015A	<b>Matrix:</b>	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	2.7		ug/Kg-dry	211881	1	08/22/2015 20:27	CG
1,1,2,2-Tetrachloroethane	BRL	2.7		ug/Kg-dry	211881	1	08/22/2015 20:27	CG
1,1,2-Trichloroethane	BRL	2.7		ug/Kg-dry	211881	1	08/22/2015 20:27	CG
1,1-Dichloroethane	BRL	2.7		ug/Kg-dry	211881	1	08/22/2015 20:27	CG
1,1-Dichloroethene	BRL	2.7		ug/Kg-dry	211881	1	08/22/2015 20:27	CG
1,2,4-Trichlorobenzene	BRL	2.7		ug/Kg-dry	211881	1	08/22/2015 20:27	CG
1,2-Dibromo-3-chloropropane	BRL	2.7		ug/Kg-dry	211881	1	08/22/2015 20:27	CG
1,2-Dibromoethane	BRL	2.7		ug/Kg-dry	211881	1	08/22/2015 20:27	CG
1,2-Dichlorobenzene	BRL	2.7		ug/Kg-dry	211881	1	08/22/2015 20:27	CG
1,2-Dichloroethane	BRL	2.7		ug/Kg-dry	211881	1	08/22/2015 20:27	CG
1,2-Dichloropropane	BRL	2.7		ug/Kg-dry	211881	1	08/22/2015 20:27	CG
1,3-Dichlorobenzene	BRL	2.7		ug/Kg-dry	211881	1	08/22/2015 20:27	CG
1,4-Dichlorobenzene	BRL	2.7		ug/Kg-dry	211881	1	08/22/2015 20:27	CG
2-Butanone	BRL	27		ug/Kg-dry	211881	1	08/22/2015 20:27	CG
2-Hexanone	BRL	5.5		ug/Kg-dry	211881	1	08/22/2015 20:27	CG
4-Methyl-2-pentanone	BRL	5.5		ug/Kg-dry	211881	1	08/22/2015 20:27	CG
Acetone	BRL	55		ug/Kg-dry	211881	1	08/22/2015 20:27	CG
Benzene	BRL	2.7		ug/Kg-dry	211881	1	08/22/2015 20:27	CG
Bromodichloromethane	BRL	2.7		ug/Kg-dry	211881	1	08/22/2015 20:27	CG
Bromoform	BRL	2.7		ug/Kg-dry	211881	1	08/22/2015 20:27	CG
Bromomethane	BRL	2.7		ug/Kg-dry	211881	1	08/22/2015 20:27	CG
Carbon disulfide	BRL	5.5		ug/Kg-dry	211881	1	08/22/2015 20:27	CG
Carbon tetrachloride	BRL	2.7		ug/Kg-dry	211881	1	08/22/2015 20:27	CG
Chlorobenzene	BRL	2.7		ug/Kg-dry	211881	1	08/22/2015 20:27	CG
Chloroethane	BRL	5.5		ug/Kg-dry	211881	1	08/22/2015 20:27	CG
Chloroform	BRL	2.7		ug/Kg-dry	211881	1	08/22/2015 20:27	CG
Chloromethane	BRL	5.5		ug/Kg-dry	211881	1	08/22/2015 20:27	CG
cis-1,2-Dichloroethene	BRL	2.7		ug/Kg-dry	211881	1	08/22/2015 20:27	CG
cis-1,3-Dichloropropene	BRL	2.7		ug/Kg-dry	211881	1	08/22/2015 20:27	CG
Cyclohexane	BRL	2.7		ug/Kg-dry	211881	1	08/22/2015 20:27	CG
Dibromochloromethane	BRL	2.7		ug/Kg-dry	211881	1	08/22/2015 20:27	CG
Dichlorodifluoromethane	BRL	5.5		ug/Kg-dry	211881	1	08/22/2015 20:27	CG
Ethylbenzene	BRL	2.7		ug/Kg-dry	211881	1	08/22/2015 20:27	CG
Freon-113	BRL	5.5		ug/Kg-dry	211881	1	08/22/2015 20:27	CG
Isopropylbenzene	BRL	2.7		ug/Kg-dry	211881	1	08/22/2015 20:27	CG
m,p-Xylene	BRL	2.7		ug/Kg-dry	211881	1	08/22/2015 20:27	CG
Methyl acetate	BRL	2.7		ug/Kg-dry	211881	1	08/22/2015 20:27	CG
Methyl tert-butyl ether	BRL	2.7		ug/Kg-dry	211881	1	08/22/2015 20:27	CG
Methylcyclohexane	BRL	2.7		ug/Kg-dry	211881	1	08/22/2015 20:27	CG
Methylene chloride	BRL	11		ug/Kg-dry	211881	1	08/22/2015 20:27	CG

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 27-Aug-15

<b>Client:</b>	Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b>	15229-SB-25-2
<b>Lab Order</b>	1508H20	<b>Tag Number:</b>	
<b>Project Name:</b>	PPC	<b>Collection Date:</b>	8/17/2015 10:09:00 AM
<b>Lab ID:</b>	1508H20-015A	<b>Matrix:</b>	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
o-Xylene	BRL	2.7		ug/Kg-dry	211881	1	08/22/2015 20:27	CG
Styrene	BRL	2.7		ug/Kg-dry	211881	1	08/22/2015 20:27	CG
Tetrachloroethene	BRL	2.7		ug/Kg-dry	211881	1	08/22/2015 20:27	CG
Toluene	BRL	2.7		ug/Kg-dry	211881	1	08/22/2015 20:27	CG
trans-1,2-Dichloroethene	BRL	2.7		ug/Kg-dry	211881	1	08/22/2015 20:27	CG
trans-1,3-Dichloropropene	BRL	2.7		ug/Kg-dry	211881	1	08/22/2015 20:27	CG
Trichloroethene	BRL	2.7		ug/Kg-dry	211881	1	08/22/2015 20:27	CG
Trichlorofluoromethane	BRL	2.7		ug/Kg-dry	211881	1	08/22/2015 20:27	CG
Vinyl chloride	BRL	5.5		ug/Kg-dry	211881	1	08/22/2015 20:27	CG
Surr: 4-Bromofluorobenzene	77.2	70-128		%REC	211881	1	08/22/2015 20:27	CG
Surr: Dibromofluoromethane	99.2	78.2-128		%REC	211881	1	08/22/2015 20:27	CG
Surr: Toluene-d8	98.6	76.5-116		%REC	211881	1	08/22/2015 20:27	CG

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 27-Aug-15

<b>Client:</b>	Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b>	15229-SB-25-2
<b>Lab Order</b>	1508H20	<b>Tag Number:</b>	
<b>Project Name:</b>	PPC	<b>Collection Date:</b>	8/17/2015 10:09:00 AM
<b>Lab ID:</b>	1508H20-015B	<b>Matrix:</b>	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	5.87	0		wt%	R298772	1	08/26/2015 11:00	PF

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 27-Aug-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15229-SB-23-2
<b>Lab Order:</b> 1508H20	<b>Tag Number:</b>
<b>Project Name:</b> PPC	<b>Collection Date:</b> 8/17/2015 11:01:00 AM
<b>Lab ID:</b> 1508H20-016A	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	3.1		ug/Kg-dry	211881	1	08/22/2015 20:51	CG
1,1,2,2-Tetrachloroethane	BRL	3.1		ug/Kg-dry	211881	1	08/22/2015 20:51	CG
1,1,2-Trichloroethane	BRL	3.1		ug/Kg-dry	211881	1	08/22/2015 20:51	CG
1,1-Dichloroethane	BRL	3.1		ug/Kg-dry	211881	1	08/22/2015 20:51	CG
1,1-Dichloroethene	BRL	3.1		ug/Kg-dry	211881	1	08/22/2015 20:51	CG
1,2,4-Trichlorobenzene	BRL	3.1		ug/Kg-dry	211881	1	08/22/2015 20:51	CG
1,2-Dibromo-3-chloropropane	BRL	3.1		ug/Kg-dry	211881	1	08/22/2015 20:51	CG
1,2-Dibromoethane	BRL	3.1		ug/Kg-dry	211881	1	08/22/2015 20:51	CG
1,2-Dichlorobenzene	BRL	3.1		ug/Kg-dry	211881	1	08/22/2015 20:51	CG
1,2-Dichloroethane	BRL	3.1		ug/Kg-dry	211881	1	08/22/2015 20:51	CG
1,2-Dichloropropane	BRL	3.1		ug/Kg-dry	211881	1	08/22/2015 20:51	CG
1,3-Dichlorobenzene	BRL	3.1		ug/Kg-dry	211881	1	08/22/2015 20:51	CG
1,4-Dichlorobenzene	BRL	3.1		ug/Kg-dry	211881	1	08/22/2015 20:51	CG
2-Butanone	BRL	31		ug/Kg-dry	211881	1	08/22/2015 20:51	CG
2-Hexanone	BRL	6.2		ug/Kg-dry	211881	1	08/22/2015 20:51	CG
4-Methyl-2-pentanone	BRL	6.2		ug/Kg-dry	211881	1	08/22/2015 20:51	CG
Acetone	BRL	62		ug/Kg-dry	211881	1	08/22/2015 20:51	CG
Benzene	BRL	3.1		ug/Kg-dry	211881	1	08/22/2015 20:51	CG
Bromodichloromethane	BRL	3.1		ug/Kg-dry	211881	1	08/22/2015 20:51	CG
Bromoform	BRL	3.1		ug/Kg-dry	211881	1	08/22/2015 20:51	CG
Bromomethane	BRL	3.1		ug/Kg-dry	211881	1	08/22/2015 20:51	CG
Carbon disulfide	BRL	6.2		ug/Kg-dry	211881	1	08/22/2015 20:51	CG
Carbon tetrachloride	BRL	3.1		ug/Kg-dry	211881	1	08/22/2015 20:51	CG
Chlorobenzene	BRL	3.1		ug/Kg-dry	211881	1	08/22/2015 20:51	CG
Chloroethane	BRL	6.2		ug/Kg-dry	211881	1	08/22/2015 20:51	CG
Chloroform	BRL	3.1		ug/Kg-dry	211881	1	08/22/2015 20:51	CG
Chloromethane	BRL	6.2		ug/Kg-dry	211881	1	08/22/2015 20:51	CG
cis-1,2-Dichloroethene	BRL	3.1		ug/Kg-dry	211881	1	08/22/2015 20:51	CG
cis-1,3-Dichloropropene	BRL	3.1		ug/Kg-dry	211881	1	08/22/2015 20:51	CG
Cyclohexane	BRL	3.1		ug/Kg-dry	211881	1	08/22/2015 20:51	CG
Dibromochloromethane	BRL	3.1		ug/Kg-dry	211881	1	08/22/2015 20:51	CG
Dichlorodifluoromethane	BRL	6.2		ug/Kg-dry	211881	1	08/22/2015 20:51	CG
Ethylbenzene	BRL	3.1		ug/Kg-dry	211881	1	08/22/2015 20:51	CG
Freon-113	BRL	6.2		ug/Kg-dry	211881	1	08/22/2015 20:51	CG
Isopropylbenzene	BRL	3.1		ug/Kg-dry	211881	1	08/22/2015 20:51	CG
m,p-Xylene	BRL	3.1		ug/Kg-dry	211881	1	08/22/2015 20:51	CG
Methyl acetate	BRL	3.1		ug/Kg-dry	211881	1	08/22/2015 20:51	CG
Methyl tert-butyl ether	BRL	3.1		ug/Kg-dry	211881	1	08/22/2015 20:51	CG
Methylcyclohexane	BRL	3.1		ug/Kg-dry	211881	1	08/22/2015 20:51	CG
Methylene chloride	BRL	12		ug/Kg-dry	211881	1	08/22/2015 20:51	CG

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 27-Aug-15

<b>Client:</b>	Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b>	15229-SB-23-2
<b>Lab Order</b>	1508H20	<b>Tag Number:</b>	
<b>Project Name:</b>	PPC	<b>Collection Date:</b>	8/17/2015 11:01:00 AM
<b>Lab ID:</b>	1508H20-016A	<b>Matrix:</b>	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
o-Xylene	BRL	3.1		ug/Kg-dry	211881	1	08/22/2015 20:51	CG
Styrene	BRL	3.1		ug/Kg-dry	211881	1	08/22/2015 20:51	CG
Tetrachloroethene	BRL	3.1		ug/Kg-dry	211881	1	08/22/2015 20:51	CG
Toluene	BRL	3.1		ug/Kg-dry	211881	1	08/22/2015 20:51	CG
trans-1,2-Dichloroethene	BRL	3.1		ug/Kg-dry	211881	1	08/22/2015 20:51	CG
trans-1,3-Dichloropropene	BRL	3.1		ug/Kg-dry	211881	1	08/22/2015 20:51	CG
Trichloroethene	BRL	3.1		ug/Kg-dry	211881	1	08/22/2015 20:51	CG
Trichlorofluoromethane	BRL	3.1		ug/Kg-dry	211881	1	08/22/2015 20:51	CG
Vinyl chloride	BRL	6.2		ug/Kg-dry	211881	1	08/22/2015 20:51	CG
Surr: 4-Bromofluorobenzene	88.5	70-128		%REC	211881	1	08/22/2015 20:51	CG
Surr: Dibromofluoromethane	98.3	78.2-128		%REC	211881	1	08/22/2015 20:51	CG
Surr: Toluene-d8	99.9	76.5-116		%REC	211881	1	08/22/2015 20:51	CG

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 27-Aug-15

<b>Client:</b>	Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b>	15229-SB-23-2
<b>Lab Order</b>	1508H20	<b>Tag Number:</b>	
<b>Project Name:</b>	PPC	<b>Collection Date:</b>	8/17/2015 11:01:00 AM
<b>Lab ID:</b>	1508H20-016B	<b>Matrix:</b>	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	22.0	0		wt%	R298772	1	08/26/2015 11:00	PF

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 27-Aug-15

<b>Client:</b>	Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b>	15229-SB-19-2
<b>Lab Order</b>	1508H20	<b>Tag Number:</b>	
<b>Project Name:</b>	PPC	<b>Collection Date:</b>	8/17/2015 1:36:00 PM
<b>Lab ID:</b>	1508H20-017A	<b>Matrix:</b>	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	2.8		ug/Kg-dry	211881	1	08/22/2015 21:15	CG
1,1,2,2-Tetrachloroethane	BRL	2.8		ug/Kg-dry	211881	1	08/22/2015 21:15	CG
1,1,2-Trichloroethane	BRL	2.8		ug/Kg-dry	211881	1	08/22/2015 21:15	CG
1,1-Dichloroethane	BRL	2.8		ug/Kg-dry	211881	1	08/22/2015 21:15	CG
1,1-Dichloroethene	BRL	2.8		ug/Kg-dry	211881	1	08/22/2015 21:15	CG
1,2,4-Trichlorobenzene	BRL	2.8		ug/Kg-dry	211881	1	08/22/2015 21:15	CG
1,2-Dibromo-3-chloropropane	BRL	2.8		ug/Kg-dry	211881	1	08/22/2015 21:15	CG
1,2-Dibromoethane	BRL	2.8		ug/Kg-dry	211881	1	08/22/2015 21:15	CG
1,2-Dichlorobenzene	BRL	2.8		ug/Kg-dry	211881	1	08/22/2015 21:15	CG
1,2-Dichloroethane	BRL	2.8		ug/Kg-dry	211881	1	08/22/2015 21:15	CG
1,2-Dichloropropane	BRL	2.8		ug/Kg-dry	211881	1	08/22/2015 21:15	CG
1,3-Dichlorobenzene	BRL	2.8		ug/Kg-dry	211881	1	08/22/2015 21:15	CG
1,4-Dichlorobenzene	BRL	2.8		ug/Kg-dry	211881	1	08/22/2015 21:15	CG
2-Butanone	BRL	28		ug/Kg-dry	211881	1	08/22/2015 21:15	CG
2-Hexanone	BRL	5.6		ug/Kg-dry	211881	1	08/22/2015 21:15	CG
4-Methyl-2-pentanone	BRL	5.6		ug/Kg-dry	211881	1	08/22/2015 21:15	CG
Acetone	BRL	56		ug/Kg-dry	211881	1	08/22/2015 21:15	CG
Benzene	BRL	2.8		ug/Kg-dry	211881	1	08/22/2015 21:15	CG
Bromodichloromethane	BRL	2.8		ug/Kg-dry	211881	1	08/22/2015 21:15	CG
Bromoform	BRL	2.8		ug/Kg-dry	211881	1	08/22/2015 21:15	CG
Bromomethane	BRL	2.8		ug/Kg-dry	211881	1	08/22/2015 21:15	CG
Carbon disulfide	BRL	5.6		ug/Kg-dry	211881	1	08/22/2015 21:15	CG
Carbon tetrachloride	BRL	2.8		ug/Kg-dry	211881	1	08/22/2015 21:15	CG
Chlorobenzene	BRL	2.8		ug/Kg-dry	211881	1	08/22/2015 21:15	CG
Chloroethane	BRL	5.6		ug/Kg-dry	211881	1	08/22/2015 21:15	CG
Chloroform	BRL	2.8		ug/Kg-dry	211881	1	08/22/2015 21:15	CG
Chloromethane	BRL	5.6		ug/Kg-dry	211881	1	08/22/2015 21:15	CG
cis-1,2-Dichloroethene	BRL	2.8		ug/Kg-dry	211881	1	08/22/2015 21:15	CG
cis-1,3-Dichloropropene	BRL	2.8		ug/Kg-dry	211881	1	08/22/2015 21:15	CG
Cyclohexane	BRL	2.8		ug/Kg-dry	211881	1	08/22/2015 21:15	CG
Dibromochloromethane	BRL	2.8		ug/Kg-dry	211881	1	08/22/2015 21:15	CG
Dichlorodifluoromethane	BRL	5.6		ug/Kg-dry	211881	1	08/22/2015 21:15	CG
Ethylbenzene	BRL	2.8		ug/Kg-dry	211881	1	08/22/2015 21:15	CG
Freon-113	BRL	5.6		ug/Kg-dry	211881	1	08/22/2015 21:15	CG
Isopropylbenzene	BRL	2.8		ug/Kg-dry	211881	1	08/22/2015 21:15	CG
m,p-Xylene	BRL	2.8		ug/Kg-dry	211881	1	08/22/2015 21:15	CG
Methyl acetate	BRL	2.8		ug/Kg-dry	211881	1	08/22/2015 21:15	CG
Methyl tert-butyl ether	BRL	2.8		ug/Kg-dry	211881	1	08/22/2015 21:15	CG
Methylcyclohexane	BRL	2.8		ug/Kg-dry	211881	1	08/22/2015 21:15	CG
Methylene chloride	BRL	11		ug/Kg-dry	211881	1	08/22/2015 21:15	CG

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 27-Aug-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15229-SB-19-2
<b>Lab Order:</b> 1508H20	<b>Tag Number:</b>
<b>Project Name:</b> PPC	<b>Collection Date:</b> 8/17/2015 1:36:00 PM
<b>Lab ID:</b> 1508H20-017A	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>				<b>(SW5035)</b>				
o-Xylene	BRL	2.8		ug/Kg-dry	211881	1	08/22/2015 21:15	CG
Styrene	BRL	2.8		ug/Kg-dry	211881	1	08/22/2015 21:15	CG
Tetrachloroethene	BRL	2.8		ug/Kg-dry	211881	1	08/22/2015 21:15	CG
Toluene	BRL	2.8		ug/Kg-dry	211881	1	08/22/2015 21:15	CG
trans-1,2-Dichloroethene	BRL	2.8		ug/Kg-dry	211881	1	08/22/2015 21:15	CG
trans-1,3-Dichloropropene	BRL	2.8		ug/Kg-dry	211881	1	08/22/2015 21:15	CG
Trichloroethene	BRL	2.8		ug/Kg-dry	211881	1	08/22/2015 21:15	CG
Trichlorofluoromethane	BRL	2.8		ug/Kg-dry	211881	1	08/22/2015 21:15	CG
Vinyl chloride	BRL	5.6		ug/Kg-dry	211881	1	08/22/2015 21:15	CG
Surr: 4-Bromofluorobenzene	86.9	70-128		%REC	211881	1	08/22/2015 21:15	CG
Surr: Dibromofluoromethane	90.5	78.2-128		%REC	211881	1	08/22/2015 21:15	CG
Surr: Toluene-d8	99.1	76.5-116		%REC	211881	1	08/22/2015 21:15	CG

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit



**Analytical Environmental Services, Inc**

**Date:** 27-Aug-15

<b>Client:</b>	Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b>	15229-SB-19-2
<b>Lab Order</b>	1508H20	<b>Tag Number:</b>	
<b>Project Name:</b>	PPC	<b>Collection Date:</b>	8/17/2015 1:36:00 PM
<b>Lab ID:</b>	1508H20-017B	<b>Matrix:</b>	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	19.2	0		wt%	R298772	1	08/26/2015 11:00	PF

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

Date: 27-Aug-15

<b>Client:</b>	Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b>	15229-SB-24-2
<b>Lab Order</b>	1508H20	<b>Tag Number:</b>	
<b>Project Name:</b>	PPC	<b>Collection Date:</b>	8/17/2015 1:02:00 PM
<b>Lab ID:</b>	1508H20-018A	<b>Matrix:</b>	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	2.7		ug/Kg-dry	211881	1	08/22/2015 21:39	CG
1,1,2,2-Tetrachloroethane	BRL	2.7		ug/Kg-dry	211881	1	08/22/2015 21:39	CG
1,1,2-Trichloroethane	BRL	2.7		ug/Kg-dry	211881	1	08/22/2015 21:39	CG
1,1-Dichloroethane	BRL	2.7		ug/Kg-dry	211881	1	08/22/2015 21:39	CG
1,1-Dichloroethene	BRL	2.7		ug/Kg-dry	211881	1	08/22/2015 21:39	CG
1,2,4-Trichlorobenzene	BRL	2.7		ug/Kg-dry	211881	1	08/22/2015 21:39	CG
1,2-Dibromo-3-chloropropane	BRL	2.7		ug/Kg-dry	211881	1	08/22/2015 21:39	CG
1,2-Dibromoethane	BRL	2.7		ug/Kg-dry	211881	1	08/22/2015 21:39	CG
1,2-Dichlorobenzene	BRL	2.7		ug/Kg-dry	211881	1	08/22/2015 21:39	CG
1,2-Dichloroethane	BRL	2.7		ug/Kg-dry	211881	1	08/22/2015 21:39	CG
1,2-Dichloropropane	BRL	2.7		ug/Kg-dry	211881	1	08/22/2015 21:39	CG
1,3-Dichlorobenzene	BRL	2.7		ug/Kg-dry	211881	1	08/22/2015 21:39	CG
1,4-Dichlorobenzene	BRL	2.7		ug/Kg-dry	211881	1	08/22/2015 21:39	CG
2-Butanone	BRL	27		ug/Kg-dry	211881	1	08/22/2015 21:39	CG
2-Hexanone	BRL	5.4		ug/Kg-dry	211881	1	08/22/2015 21:39	CG
4-Methyl-2-pentanone	BRL	5.4		ug/Kg-dry	211881	1	08/22/2015 21:39	CG
Acetone	71	54		ug/Kg-dry	211881	1	08/22/2015 21:39	CG
Benzene	BRL	2.7		ug/Kg-dry	211881	1	08/22/2015 21:39	CG
Bromodichloromethane	BRL	2.7		ug/Kg-dry	211881	1	08/22/2015 21:39	CG
Bromoform	BRL	2.7		ug/Kg-dry	211881	1	08/22/2015 21:39	CG
Bromomethane	BRL	2.7		ug/Kg-dry	211881	1	08/22/2015 21:39	CG
Carbon disulfide	BRL	5.4		ug/Kg-dry	211881	1	08/22/2015 21:39	CG
Carbon tetrachloride	BRL	2.7		ug/Kg-dry	211881	1	08/22/2015 21:39	CG
Chlorobenzene	BRL	2.7		ug/Kg-dry	211881	1	08/22/2015 21:39	CG
Chloroethane	BRL	5.4		ug/Kg-dry	211881	1	08/22/2015 21:39	CG
Chloroform	BRL	2.7		ug/Kg-dry	211881	1	08/22/2015 21:39	CG
Chloromethane	BRL	5.4		ug/Kg-dry	211881	1	08/22/2015 21:39	CG
cis-1,2-Dichloroethene	BRL	2.7		ug/Kg-dry	211881	1	08/22/2015 21:39	CG
cis-1,3-Dichloropropene	BRL	2.7		ug/Kg-dry	211881	1	08/22/2015 21:39	CG
Cyclohexane	BRL	2.7		ug/Kg-dry	211881	1	08/22/2015 21:39	CG
Dibromochloromethane	BRL	2.7		ug/Kg-dry	211881	1	08/22/2015 21:39	CG
Dichlorodifluoromethane	BRL	5.4		ug/Kg-dry	211881	1	08/22/2015 21:39	CG
Ethylbenzene	BRL	2.7		ug/Kg-dry	211881	1	08/22/2015 21:39	CG
Freon-113	BRL	5.4		ug/Kg-dry	211881	1	08/22/2015 21:39	CG
Isopropylbenzene	BRL	2.7		ug/Kg-dry	211881	1	08/22/2015 21:39	CG
m,p-Xylene	BRL	2.7		ug/Kg-dry	211881	1	08/22/2015 21:39	CG
Methyl acetate	BRL	2.7		ug/Kg-dry	211881	1	08/22/2015 21:39	CG
Methyl tert-butyl ether	BRL	2.7		ug/Kg-dry	211881	1	08/22/2015 21:39	CG
Methylcyclohexane	BRL	2.7		ug/Kg-dry	211881	1	08/22/2015 21:39	CG
Methylene chloride	BRL	11		ug/Kg-dry	211881	1	08/22/2015 21:39	CG

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 27-Aug-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15229-SB-24-2
<b>Lab Order:</b> 1508H20	<b>Tag Number:</b>
<b>Project Name:</b> PPC	<b>Collection Date:</b> 8/17/2015 1:02:00 PM
<b>Lab ID:</b> 1508H20-018A	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
o-Xylene	BRL	2.7		ug/Kg-dry	211881	1	08/22/2015 21:39	CG
Styrene	BRL	2.7		ug/Kg-dry	211881	1	08/22/2015 21:39	CG
Tetrachloroethene	BRL	2.7		ug/Kg-dry	211881	1	08/22/2015 21:39	CG
Toluene	BRL	2.7		ug/Kg-dry	211881	1	08/22/2015 21:39	CG
trans-1,2-Dichloroethene	BRL	2.7		ug/Kg-dry	211881	1	08/22/2015 21:39	CG
trans-1,3-Dichloropropene	BRL	2.7		ug/Kg-dry	211881	1	08/22/2015 21:39	CG
Trichloroethene	BRL	2.7		ug/Kg-dry	211881	1	08/22/2015 21:39	CG
Trichlorofluoromethane	BRL	2.7		ug/Kg-dry	211881	1	08/22/2015 21:39	CG
Vinyl chloride	BRL	5.4		ug/Kg-dry	211881	1	08/22/2015 21:39	CG
Surr: 4-Bromofluorobenzene	83.4	70-128		%REC	211881	1	08/22/2015 21:39	CG
Surr: Dibromofluoromethane	98.5	78.2-128		%REC	211881	1	08/22/2015 21:39	CG
Surr: Toluene-d8	97.8	76.5-116		%REC	211881	1	08/22/2015 21:39	CG

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 27-Aug-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15229-SB-24-2
<b>Lab Order:</b> 1508H20	<b>Tag Number:</b>
<b>Project Name:</b> PPC	<b>Collection Date:</b> 8/17/2015 1:02:00 PM
<b>Lab ID:</b> 1508H20-018B	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	12.3	0		wt%	R298772	1	08/26/2015 11:00	PF

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 27-Aug-15

<b>Client:</b>	Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b>	15229-SB-22-2
<b>Lab Order</b>	1508H20	<b>Tag Number:</b>	
<b>Project Name:</b>	PPC	<b>Collection Date:</b>	8/17/2015 1:17:00 PM
<b>Lab ID:</b>	1508H20-019A	<b>Matrix:</b>	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	2.8		ug/Kg-dry	211881	1	08/22/2015 22:03	CG
1,1,2,2-Tetrachloroethane	BRL	2.8		ug/Kg-dry	211881	1	08/22/2015 22:03	CG
1,1,2-Trichloroethane	BRL	2.8		ug/Kg-dry	211881	1	08/22/2015 22:03	CG
1,1-Dichloroethane	BRL	2.8		ug/Kg-dry	211881	1	08/22/2015 22:03	CG
1,1-Dichloroethene	BRL	2.8		ug/Kg-dry	211881	1	08/22/2015 22:03	CG
1,2,4-Trichlorobenzene	BRL	2.8		ug/Kg-dry	211881	1	08/22/2015 22:03	CG
1,2-Dibromo-3-chloropropane	BRL	2.8		ug/Kg-dry	211881	1	08/22/2015 22:03	CG
1,2-Dibromoethane	BRL	2.8		ug/Kg-dry	211881	1	08/22/2015 22:03	CG
1,2-Dichlorobenzene	BRL	2.8		ug/Kg-dry	211881	1	08/22/2015 22:03	CG
1,2-Dichloroethane	BRL	2.8		ug/Kg-dry	211881	1	08/22/2015 22:03	CG
1,2-Dichloropropane	BRL	2.8		ug/Kg-dry	211881	1	08/22/2015 22:03	CG
1,3-Dichlorobenzene	BRL	2.8		ug/Kg-dry	211881	1	08/22/2015 22:03	CG
1,4-Dichlorobenzene	BRL	2.8		ug/Kg-dry	211881	1	08/22/2015 22:03	CG
2-Butanone	BRL	28		ug/Kg-dry	211881	1	08/22/2015 22:03	CG
2-Hexanone	BRL	5.5		ug/Kg-dry	211881	1	08/22/2015 22:03	CG
4-Methyl-2-pentanone	BRL	5.5		ug/Kg-dry	211881	1	08/22/2015 22:03	CG
Acetone	65	55		ug/Kg-dry	211881	1	08/22/2015 22:03	CG
Benzene	BRL	2.8		ug/Kg-dry	211881	1	08/22/2015 22:03	CG
Bromodichloromethane	BRL	2.8		ug/Kg-dry	211881	1	08/22/2015 22:03	CG
Bromoform	BRL	2.8		ug/Kg-dry	211881	1	08/22/2015 22:03	CG
Bromomethane	BRL	2.8		ug/Kg-dry	211881	1	08/22/2015 22:03	CG
Carbon disulfide	BRL	5.5		ug/Kg-dry	211881	1	08/22/2015 22:03	CG
Carbon tetrachloride	BRL	2.8		ug/Kg-dry	211881	1	08/22/2015 22:03	CG
Chlorobenzene	BRL	2.8		ug/Kg-dry	211881	1	08/22/2015 22:03	CG
Chloroethane	BRL	5.5		ug/Kg-dry	211881	1	08/22/2015 22:03	CG
Chloroform	BRL	2.8		ug/Kg-dry	211881	1	08/22/2015 22:03	CG
Chloromethane	BRL	5.5		ug/Kg-dry	211881	1	08/22/2015 22:03	CG
cis-1,2-Dichloroethene	BRL	2.8		ug/Kg-dry	211881	1	08/22/2015 22:03	CG
cis-1,3-Dichloropropene	BRL	2.8		ug/Kg-dry	211881	1	08/22/2015 22:03	CG
Cyclohexane	BRL	2.8		ug/Kg-dry	211881	1	08/22/2015 22:03	CG
Dibromochloromethane	BRL	2.8		ug/Kg-dry	211881	1	08/22/2015 22:03	CG
Dichlorodifluoromethane	BRL	5.5		ug/Kg-dry	211881	1	08/22/2015 22:03	CG
Ethylbenzene	BRL	2.8		ug/Kg-dry	211881	1	08/22/2015 22:03	CG
Freon-113	BRL	5.5		ug/Kg-dry	211881	1	08/22/2015 22:03	CG
Isopropylbenzene	BRL	2.8		ug/Kg-dry	211881	1	08/22/2015 22:03	CG
m,p-Xylene	BRL	2.8		ug/Kg-dry	211881	1	08/22/2015 22:03	CG
Methyl acetate	BRL	2.8		ug/Kg-dry	211881	1	08/22/2015 22:03	CG
Methyl tert-butyl ether	BRL	2.8		ug/Kg-dry	211881	1	08/22/2015 22:03	CG
Methylcyclohexane	BRL	2.8		ug/Kg-dry	211881	1	08/22/2015 22:03	CG
Methylene chloride	BRL	11		ug/Kg-dry	211881	1	08/22/2015 22:03	CG

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 27-Aug-15

<b>Client:</b>	Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b>	15229-SB-22-2
<b>Lab Order</b>	1508H20	<b>Tag Number:</b>	
<b>Project Name:</b>	PPC	<b>Collection Date:</b>	8/17/2015 1:17:00 PM
<b>Lab ID:</b>	1508H20-019A	<b>Matrix:</b>	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
o-Xylene	BRL	2.8		ug/Kg-dry	211881	1	08/22/2015 22:03	CG
Styrene	BRL	2.8		ug/Kg-dry	211881	1	08/22/2015 22:03	CG
Tetrachloroethene	BRL	2.8		ug/Kg-dry	211881	1	08/22/2015 22:03	CG
Toluene	BRL	2.8		ug/Kg-dry	211881	1	08/22/2015 22:03	CG
trans-1,2-Dichloroethene	BRL	2.8		ug/Kg-dry	211881	1	08/22/2015 22:03	CG
trans-1,3-Dichloropropene	BRL	2.8		ug/Kg-dry	211881	1	08/22/2015 22:03	CG
Trichloroethene	BRL	2.8		ug/Kg-dry	211881	1	08/22/2015 22:03	CG
Trichlorofluoromethane	BRL	2.8		ug/Kg-dry	211881	1	08/22/2015 22:03	CG
Vinyl chloride	BRL	5.5		ug/Kg-dry	211881	1	08/22/2015 22:03	CG
Surr: 4-Bromofluorobenzene	85.7	70-128		%REC	211881	1	08/22/2015 22:03	CG
Surr: Dibromofluoromethane	93.7	78.2-128		%REC	211881	1	08/22/2015 22:03	CG
Surr: Toluene-d8	99.1	76.5-116		%REC	211881	1	08/22/2015 22:03	CG

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 27-Aug-15

<b>Client:</b>	Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b>	15229-SB-22-2
<b>Lab Order</b>	1508H20	<b>Tag Number:</b>	
<b>Project Name:</b>	PPC	<b>Collection Date:</b>	8/17/2015 1:17:00 PM
<b>Lab ID:</b>	1508H20-019B	<b>Matrix:</b>	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	19.1	0		wt%	R298772	1	08/26/2015 11:00	PF

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 27-Aug-15

<b>Client:</b>	Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b>	15229-SB-21-2
<b>Lab Order</b>	1508H20	<b>Tag Number:</b>	
<b>Project Name:</b>	PPC	<b>Collection Date:</b>	8/17/2015 1:24:00 PM
<b>Lab ID:</b>	1508H20-020A	<b>Matrix:</b>	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	2.5		ug/Kg-dry	211881	1	08/22/2015 22:27	CG
1,1,2,2-Tetrachloroethane	BRL	2.5		ug/Kg-dry	211881	1	08/22/2015 22:27	CG
1,1,2-Trichloroethane	BRL	2.5		ug/Kg-dry	211881	1	08/22/2015 22:27	CG
1,1-Dichloroethane	BRL	2.5		ug/Kg-dry	211881	1	08/22/2015 22:27	CG
1,1-Dichloroethene	BRL	2.5		ug/Kg-dry	211881	1	08/22/2015 22:27	CG
1,2,4-Trichlorobenzene	BRL	2.5		ug/Kg-dry	211881	1	08/22/2015 22:27	CG
1,2-Dibromo-3-chloropropane	BRL	2.5		ug/Kg-dry	211881	1	08/22/2015 22:27	CG
1,2-Dibromoethane	BRL	2.5		ug/Kg-dry	211881	1	08/22/2015 22:27	CG
1,2-Dichlorobenzene	BRL	2.5		ug/Kg-dry	211881	1	08/22/2015 22:27	CG
1,2-Dichloroethane	BRL	2.5		ug/Kg-dry	211881	1	08/22/2015 22:27	CG
1,2-Dichloropropane	BRL	2.5		ug/Kg-dry	211881	1	08/22/2015 22:27	CG
1,3-Dichlorobenzene	BRL	2.5		ug/Kg-dry	211881	1	08/22/2015 22:27	CG
1,4-Dichlorobenzene	BRL	2.5		ug/Kg-dry	211881	1	08/22/2015 22:27	CG
2-Butanone	BRL	25		ug/Kg-dry	211881	1	08/22/2015 22:27	CG
2-Hexanone	BRL	5.0		ug/Kg-dry	211881	1	08/22/2015 22:27	CG
4-Methyl-2-pentanone	BRL	5.0		ug/Kg-dry	211881	1	08/22/2015 22:27	CG
Acetone	BRL	50		ug/Kg-dry	211881	1	08/22/2015 22:27	CG
Benzene	BRL	2.5		ug/Kg-dry	211881	1	08/22/2015 22:27	CG
Bromodichloromethane	BRL	2.5		ug/Kg-dry	211881	1	08/22/2015 22:27	CG
Bromoform	BRL	2.5		ug/Kg-dry	211881	1	08/22/2015 22:27	CG
Bromomethane	BRL	2.5		ug/Kg-dry	211881	1	08/22/2015 22:27	CG
Carbon disulfide	BRL	5.0		ug/Kg-dry	211881	1	08/22/2015 22:27	CG
Carbon tetrachloride	BRL	2.5		ug/Kg-dry	211881	1	08/22/2015 22:27	CG
Chlorobenzene	BRL	2.5		ug/Kg-dry	211881	1	08/22/2015 22:27	CG
Chloroethane	BRL	5.0		ug/Kg-dry	211881	1	08/22/2015 22:27	CG
Chloroform	BRL	2.5		ug/Kg-dry	211881	1	08/22/2015 22:27	CG
Chloromethane	BRL	5.0		ug/Kg-dry	211881	1	08/22/2015 22:27	CG
cis-1,2-Dichloroethene	BRL	2.5		ug/Kg-dry	211881	1	08/22/2015 22:27	CG
cis-1,3-Dichloropropene	BRL	2.5		ug/Kg-dry	211881	1	08/22/2015 22:27	CG
Cyclohexane	BRL	2.5		ug/Kg-dry	211881	1	08/22/2015 22:27	CG
Dibromochloromethane	BRL	2.5		ug/Kg-dry	211881	1	08/22/2015 22:27	CG
Dichlorodifluoromethane	BRL	5.0		ug/Kg-dry	211881	1	08/22/2015 22:27	CG
Ethylbenzene	BRL	2.5		ug/Kg-dry	211881	1	08/22/2015 22:27	CG
Freon-113	BRL	5.0		ug/Kg-dry	211881	1	08/22/2015 22:27	CG
Isopropylbenzene	BRL	2.5		ug/Kg-dry	211881	1	08/22/2015 22:27	CG
m,p-Xylene	BRL	2.5		ug/Kg-dry	211881	1	08/22/2015 22:27	CG
Methyl acetate	BRL	2.5		ug/Kg-dry	211881	1	08/22/2015 22:27	CG
Methyl tert-butyl ether	BRL	2.5		ug/Kg-dry	211881	1	08/22/2015 22:27	CG
Methylcyclohexane	BRL	2.5		ug/Kg-dry	211881	1	08/22/2015 22:27	CG
Methylene chloride	BRL	9.9		ug/Kg-dry	211881	1	08/22/2015 22:27	CG

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit



**Analytical Environmental Services, Inc**

**Date:** 27-Aug-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15229-SB-21-2
<b>Lab Order:</b> 1508H20	<b>Tag Number:</b>
<b>Project Name:</b> PPC	<b>Collection Date:</b> 8/17/2015 1:24:00 PM
<b>Lab ID:</b> 1508H20-020A	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
o-Xylene	BRL	2.5		ug/Kg-dry	211881	1	08/22/2015 22:27	CG
Styrene	BRL	2.5		ug/Kg-dry	211881	1	08/22/2015 22:27	CG
Tetrachloroethene	BRL	2.5		ug/Kg-dry	211881	1	08/22/2015 22:27	CG
Toluene	BRL	2.5		ug/Kg-dry	211881	1	08/22/2015 22:27	CG
trans-1,2-Dichloroethene	BRL	2.5		ug/Kg-dry	211881	1	08/22/2015 22:27	CG
trans-1,3-Dichloropropene	BRL	2.5		ug/Kg-dry	211881	1	08/22/2015 22:27	CG
Trichloroethene	BRL	2.5		ug/Kg-dry	211881	1	08/22/2015 22:27	CG
Trichlorofluoromethane	BRL	2.5		ug/Kg-dry	211881	1	08/22/2015 22:27	CG
Vinyl chloride	BRL	5.0		ug/Kg-dry	211881	1	08/22/2015 22:27	CG
Surr: 4-Bromofluorobenzene	87.6	70-128		%REC	211881	1	08/22/2015 22:27	CG
Surr: Dibromofluoromethane	98.2	78.2-128		%REC	211881	1	08/22/2015 22:27	CG
Surr: Toluene-d8	97.5	76.5-116		%REC	211881	1	08/22/2015 22:27	CG

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 27-Aug-15

<b>Client:</b>	Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b>	15229-SB-21-2
<b>Lab Order</b>	1508H20	<b>Tag Number:</b>	
<b>Project Name:</b>	PPC	<b>Collection Date:</b>	8/17/2015 1:24:00 PM
<b>Lab ID:</b>	1508H20-020B	<b>Matrix:</b>	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	12.7	0		wt%	R298772	1	08/26/2015 11:00	PF

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 27-Aug-15

<b>Client:</b>	Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b>	15229-SB-18-2
<b>Lab Order</b>	1508H20	<b>Tag Number:</b>	
<b>Project Name:</b>	PPC	<b>Collection Date:</b>	8/17/2015 3:26:00 PM
<b>Lab ID:</b>	1508H20-021A	<b>Matrix:</b>	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	2.6		ug/Kg-dry	211904	1	08/25/2015 19:26	CG
1,1,2,2-Tetrachloroethane	BRL	2.6		ug/Kg-dry	211904	1	08/25/2015 19:26	CG
1,1,2-Trichloroethane	BRL	2.6		ug/Kg-dry	211904	1	08/25/2015 19:26	CG
1,1-Dichloroethane	BRL	2.6		ug/Kg-dry	211904	1	08/25/2015 19:26	CG
1,1-Dichloroethene	BRL	2.6		ug/Kg-dry	211904	1	08/25/2015 19:26	CG
1,2,4-Trichlorobenzene	BRL	2.6		ug/Kg-dry	211904	1	08/25/2015 19:26	CG
1,2-Dibromo-3-chloropropane	BRL	2.6		ug/Kg-dry	211904	1	08/25/2015 19:26	CG
1,2-Dibromoethane	BRL	2.6		ug/Kg-dry	211904	1	08/25/2015 19:26	CG
1,2-Dichlorobenzene	BRL	2.6		ug/Kg-dry	211904	1	08/25/2015 19:26	CG
1,2-Dichloroethane	BRL	2.6		ug/Kg-dry	211904	1	08/25/2015 19:26	CG
1,2-Dichloropropane	BRL	2.6		ug/Kg-dry	211904	1	08/25/2015 19:26	CG
1,3-Dichlorobenzene	BRL	2.6		ug/Kg-dry	211904	1	08/25/2015 19:26	CG
1,4-Dichlorobenzene	BRL	2.6		ug/Kg-dry	211904	1	08/25/2015 19:26	CG
2-Butanone	BRL	26		ug/Kg-dry	211904	1	08/25/2015 19:26	CG
2-Hexanone	BRL	5.3		ug/Kg-dry	211904	1	08/25/2015 19:26	CG
4-Methyl-2-pentanone	BRL	5.3		ug/Kg-dry	211904	1	08/25/2015 19:26	CG
Acetone	110	53		ug/Kg-dry	211904	1	08/25/2015 19:26	CG
Benzene	BRL	2.6		ug/Kg-dry	211904	1	08/25/2015 19:26	CG
Bromodichloromethane	BRL	2.6		ug/Kg-dry	211904	1	08/25/2015 19:26	CG
Bromoform	BRL	2.6		ug/Kg-dry	211904	1	08/25/2015 19:26	CG
Bromomethane	BRL	2.6		ug/Kg-dry	211904	1	08/25/2015 19:26	CG
Carbon disulfide	BRL	5.3		ug/Kg-dry	211904	1	08/25/2015 19:26	CG
Carbon tetrachloride	BRL	2.6		ug/Kg-dry	211904	1	08/25/2015 19:26	CG
Chlorobenzene	BRL	2.6		ug/Kg-dry	211904	1	08/25/2015 19:26	CG
Chloroethane	BRL	5.3		ug/Kg-dry	211904	1	08/25/2015 19:26	CG
Chloroform	BRL	2.6		ug/Kg-dry	211904	1	08/25/2015 19:26	CG
Chloromethane	BRL	5.3		ug/Kg-dry	211904	1	08/25/2015 19:26	CG
cis-1,2-Dichloroethene	BRL	2.6		ug/Kg-dry	211904	1	08/25/2015 19:26	CG
cis-1,3-Dichloropropene	BRL	2.6		ug/Kg-dry	211904	1	08/25/2015 19:26	CG
Cyclohexane	BRL	2.6		ug/Kg-dry	211904	1	08/25/2015 19:26	CG
Dibromochloromethane	BRL	2.6		ug/Kg-dry	211904	1	08/25/2015 19:26	CG
Dichlorodifluoromethane	BRL	5.3		ug/Kg-dry	211904	1	08/25/2015 19:26	CG
Ethylbenzene	BRL	2.6		ug/Kg-dry	211904	1	08/25/2015 19:26	CG
Freon-113	BRL	5.3		ug/Kg-dry	211904	1	08/25/2015 19:26	CG
Isopropylbenzene	BRL	2.6		ug/Kg-dry	211904	1	08/25/2015 19:26	CG
m,p-Xylene	BRL	2.6		ug/Kg-dry	211904	1	08/25/2015 19:26	CG
Methyl acetate	BRL	2.6		ug/Kg-dry	211904	1	08/25/2015 19:26	CG
Methyl tert-butyl ether	BRL	2.6		ug/Kg-dry	211904	1	08/25/2015 19:26	CG
Methylcyclohexane	BRL	2.6		ug/Kg-dry	211904	1	08/25/2015 19:26	CG
Methylene chloride	BRL	11		ug/Kg-dry	211904	1	08/25/2015 19:26	CG

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

<b>Client:</b>	Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b>	15229-SB-18-2
<b>Lab Order</b>	1508H20	<b>Tag Number:</b>	
<b>Project Name:</b>	PPC	<b>Collection Date:</b>	8/17/2015 3:26:00 PM
<b>Lab ID:</b>	1508H20-021A	<b>Matrix:</b>	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B</b>					<b>(SW5035)</b>			
o-Xylene	BRL	2.6		ug/Kg-dry	211904	1	08/25/2015 19:26	CG
Styrene	BRL	2.6		ug/Kg-dry	211904	1	08/25/2015 19:26	CG
Tetrachloroethene	BRL	2.6		ug/Kg-dry	211904	1	08/25/2015 19:26	CG
Toluene	BRL	2.6		ug/Kg-dry	211904	1	08/25/2015 19:26	CG
trans-1,2-Dichloroethene	BRL	2.6		ug/Kg-dry	211904	1	08/25/2015 19:26	CG
trans-1,3-Dichloropropene	BRL	2.6		ug/Kg-dry	211904	1	08/25/2015 19:26	CG
Trichloroethene	BRL	2.6		ug/Kg-dry	211904	1	08/25/2015 19:26	CG
Trichlorofluoromethane	BRL	2.6		ug/Kg-dry	211904	1	08/25/2015 19:26	CG
Vinyl chloride	BRL	5.3		ug/Kg-dry	211904	1	08/25/2015 19:26	CG
Surr: 4-Bromofluorobenzene	88.5	70-128		%REC	211904	1	08/25/2015 19:26	CG
Surr: Dibromofluoromethane	91.3	78.2-128		%REC	211904	1	08/25/2015 19:26	CG
Surr: Toluene-d8	98.4	76.5-116		%REC	211904	1	08/25/2015 19:26	CG

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 27-Aug-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15229-SB-18-2
<b>Lab Order:</b> 1508H20	<b>Tag Number:</b>
<b>Project Name:</b> PPC	<b>Collection Date:</b> 8/17/2015 3:26:00 PM
<b>Lab ID:</b> 1508H20-021B	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	16.8	0		wt%	R298772	1	08/26/2015 11:00	PF

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 27-Aug-15

<b>Client:</b>	Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b>	15229-SB-14-2
<b>Lab Order</b>	1508H20	<b>Tag Number:</b>	
<b>Project Name:</b>	PPC	<b>Collection Date:</b>	8/17/2015 4:07:00 PM
<b>Lab ID:</b>	1508H20-022A	<b>Matrix:</b>	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	4.1		ug/Kg-dry	211881	1	08/22/2015 23:38	CG
1,1,2,2-Tetrachloroethane	BRL	4.1		ug/Kg-dry	211881	1	08/22/2015 23:38	CG
1,1,2-Trichloroethane	BRL	4.1		ug/Kg-dry	211881	1	08/22/2015 23:38	CG
1,1-Dichloroethane	BRL	4.1		ug/Kg-dry	211881	1	08/22/2015 23:38	CG
1,1-Dichloroethene	BRL	4.1		ug/Kg-dry	211881	1	08/22/2015 23:38	CG
1,2,4-Trichlorobenzene	BRL	4.1		ug/Kg-dry	211881	1	08/22/2015 23:38	CG
1,2-Dibromo-3-chloropropane	BRL	4.1		ug/Kg-dry	211881	1	08/22/2015 23:38	CG
1,2-Dibromoethane	BRL	4.1		ug/Kg-dry	211881	1	08/22/2015 23:38	CG
1,2-Dichlorobenzene	BRL	4.1		ug/Kg-dry	211881	1	08/22/2015 23:38	CG
1,2-Dichloroethane	BRL	4.1		ug/Kg-dry	211881	1	08/22/2015 23:38	CG
1,2-Dichloropropane	BRL	4.1		ug/Kg-dry	211881	1	08/22/2015 23:38	CG
1,3-Dichlorobenzene	BRL	4.1		ug/Kg-dry	211881	1	08/22/2015 23:38	CG
1,4-Dichlorobenzene	BRL	4.1		ug/Kg-dry	211881	1	08/22/2015 23:38	CG
2-Butanone	BRL	41		ug/Kg-dry	211881	1	08/22/2015 23:38	CG
2-Hexanone	BRL	8.2		ug/Kg-dry	211881	1	08/22/2015 23:38	CG
4-Methyl-2-pentanone	BRL	8.2		ug/Kg-dry	211881	1	08/22/2015 23:38	CG
Acetone	BRL	82		ug/Kg-dry	211881	1	08/22/2015 23:38	CG
Benzene	BRL	4.1		ug/Kg-dry	211881	1	08/22/2015 23:38	CG
Bromodichloromethane	BRL	4.1		ug/Kg-dry	211881	1	08/22/2015 23:38	CG
Bromoform	BRL	4.1		ug/Kg-dry	211881	1	08/22/2015 23:38	CG
Bromomethane	BRL	4.1		ug/Kg-dry	211881	1	08/22/2015 23:38	CG
Carbon disulfide	BRL	8.2		ug/Kg-dry	211881	1	08/22/2015 23:38	CG
Carbon tetrachloride	BRL	4.1		ug/Kg-dry	211881	1	08/22/2015 23:38	CG
Chlorobenzene	BRL	4.1		ug/Kg-dry	211881	1	08/22/2015 23:38	CG
Chloroethane	BRL	8.2		ug/Kg-dry	211881	1	08/22/2015 23:38	CG
Chloroform	BRL	4.1		ug/Kg-dry	211881	1	08/22/2015 23:38	CG
Chloromethane	BRL	8.2		ug/Kg-dry	211881	1	08/22/2015 23:38	CG
cis-1,2-Dichloroethene	BRL	4.1		ug/Kg-dry	211881	1	08/22/2015 23:38	CG
cis-1,3-Dichloropropene	BRL	4.1		ug/Kg-dry	211881	1	08/22/2015 23:38	CG
Cyclohexane	BRL	4.1		ug/Kg-dry	211881	1	08/22/2015 23:38	CG
Dibromochloromethane	BRL	4.1		ug/Kg-dry	211881	1	08/22/2015 23:38	CG
Dichlorodifluoromethane	BRL	8.2		ug/Kg-dry	211881	1	08/22/2015 23:38	CG
Ethylbenzene	BRL	4.1		ug/Kg-dry	211881	1	08/22/2015 23:38	CG
Freon-113	BRL	8.2		ug/Kg-dry	211881	1	08/22/2015 23:38	CG
Isopropylbenzene	BRL	4.1		ug/Kg-dry	211881	1	08/22/2015 23:38	CG
m,p-Xylene	BRL	4.1		ug/Kg-dry	211881	1	08/22/2015 23:38	CG
Methyl acetate	BRL	4.1		ug/Kg-dry	211881	1	08/22/2015 23:38	CG
Methyl tert-butyl ether	BRL	4.1		ug/Kg-dry	211881	1	08/22/2015 23:38	CG
Methylcyclohexane	BRL	4.1		ug/Kg-dry	211881	1	08/22/2015 23:38	CG
Methylene chloride	BRL	16		ug/Kg-dry	211881	1	08/22/2015 23:38	CG

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 27-Aug-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15229-SB-14-2
<b>Lab Order:</b> 1508H20	<b>Tag Number:</b>
<b>Project Name:</b> PPC	<b>Collection Date:</b> 8/17/2015 4:07:00 PM
<b>Lab ID:</b> 1508H20-022A	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
o-Xylene	BRL	4.1		ug/Kg-dry	211881	1	08/22/2015 23:38	CG
Styrene	BRL	4.1		ug/Kg-dry	211881	1	08/22/2015 23:38	CG
Tetrachloroethene	BRL	4.1		ug/Kg-dry	211881	1	08/22/2015 23:38	CG
Toluene	BRL	4.1		ug/Kg-dry	211881	1	08/22/2015 23:38	CG
trans-1,2-Dichloroethene	BRL	4.1		ug/Kg-dry	211881	1	08/22/2015 23:38	CG
trans-1,3-Dichloropropene	BRL	4.1		ug/Kg-dry	211881	1	08/22/2015 23:38	CG
Trichloroethene	BRL	4.1		ug/Kg-dry	211881	1	08/22/2015 23:38	CG
Trichlorofluoromethane	BRL	4.1		ug/Kg-dry	211881	1	08/22/2015 23:38	CG
Vinyl chloride	BRL	8.2		ug/Kg-dry	211881	1	08/22/2015 23:38	CG
Surr: 4-Bromofluorobenzene	85.4	70-128		%REC	211881	1	08/22/2015 23:38	CG
Surr: Dibromofluoromethane	96.8	78.2-128		%REC	211881	1	08/22/2015 23:38	CG
Surr: Toluene-d8	98.2	76.5-116		%REC	211881	1	08/22/2015 23:38	CG

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 27-Aug-15

<b>Client:</b>	Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b>	15229-SB-14-2
<b>Lab Order</b>	1508H20	<b>Tag Number:</b>	
<b>Project Name:</b>	PPC	<b>Collection Date:</b>	8/17/2015 4:07:00 PM
<b>Lab ID:</b>	1508H20-022B	<b>Matrix:</b>	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	13.5	0		wt%	R298772	1	08/26/2015 11:00	PF

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit



**Analytical Environmental Services, Inc**

**Date:** 27-Aug-15

<b>Client:</b>	Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b>	15229-SB-13-2
<b>Lab Order</b>	1508H20	<b>Tag Number:</b>	
<b>Project Name:</b>	PPC	<b>Collection Date:</b>	8/17/2015 4:38:00 PM
<b>Lab ID:</b>	1508H20-023A	<b>Matrix:</b>	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	3.2		ug/Kg-dry	211881	1	08/23/2015 00:02	CG
1,1,2,2-Tetrachloroethane	BRL	3.2		ug/Kg-dry	211881	1	08/23/2015 00:02	CG
1,1,2-Trichloroethane	BRL	3.2		ug/Kg-dry	211881	1	08/23/2015 00:02	CG
1,1-Dichloroethane	BRL	3.2		ug/Kg-dry	211881	1	08/23/2015 00:02	CG
1,1-Dichloroethene	BRL	3.2		ug/Kg-dry	211881	1	08/23/2015 00:02	CG
1,2,4-Trichlorobenzene	BRL	3.2		ug/Kg-dry	211881	1	08/23/2015 00:02	CG
1,2-Dibromo-3-chloropropane	BRL	3.2		ug/Kg-dry	211881	1	08/23/2015 00:02	CG
1,2-Dibromoethane	BRL	3.2		ug/Kg-dry	211881	1	08/23/2015 00:02	CG
1,2-Dichlorobenzene	BRL	3.2		ug/Kg-dry	211881	1	08/23/2015 00:02	CG
1,2-Dichloroethane	BRL	3.2		ug/Kg-dry	211881	1	08/23/2015 00:02	CG
1,2-Dichloropropane	BRL	3.2		ug/Kg-dry	211881	1	08/23/2015 00:02	CG
1,3-Dichlorobenzene	BRL	3.2		ug/Kg-dry	211881	1	08/23/2015 00:02	CG
1,4-Dichlorobenzene	BRL	3.2		ug/Kg-dry	211881	1	08/23/2015 00:02	CG
2-Butanone	BRL	32		ug/Kg-dry	211881	1	08/23/2015 00:02	CG
2-Hexanone	BRL	6.4		ug/Kg-dry	211881	1	08/23/2015 00:02	CG
4-Methyl-2-pentanone	BRL	6.4		ug/Kg-dry	211881	1	08/23/2015 00:02	CG
Acetone	BRL	64		ug/Kg-dry	211881	1	08/23/2015 00:02	CG
Benzene	BRL	3.2		ug/Kg-dry	211881	1	08/23/2015 00:02	CG
Bromodichloromethane	BRL	3.2		ug/Kg-dry	211881	1	08/23/2015 00:02	CG
Bromoform	BRL	3.2		ug/Kg-dry	211881	1	08/23/2015 00:02	CG
Bromomethane	BRL	3.2		ug/Kg-dry	211881	1	08/23/2015 00:02	CG
Carbon disulfide	BRL	6.4		ug/Kg-dry	211881	1	08/23/2015 00:02	CG
Carbon tetrachloride	BRL	3.2		ug/Kg-dry	211881	1	08/23/2015 00:02	CG
Chlorobenzene	BRL	3.2		ug/Kg-dry	211881	1	08/23/2015 00:02	CG
Chloroethane	BRL	6.4		ug/Kg-dry	211881	1	08/23/2015 00:02	CG
Chloroform	BRL	3.2		ug/Kg-dry	211881	1	08/23/2015 00:02	CG
Chloromethane	BRL	6.4		ug/Kg-dry	211881	1	08/23/2015 00:02	CG
cis-1,2-Dichloroethene	BRL	3.2		ug/Kg-dry	211881	1	08/23/2015 00:02	CG
cis-1,3-Dichloropropene	BRL	3.2		ug/Kg-dry	211881	1	08/23/2015 00:02	CG
Cyclohexane	BRL	3.2		ug/Kg-dry	211881	1	08/23/2015 00:02	CG
Dibromochloromethane	BRL	3.2		ug/Kg-dry	211881	1	08/23/2015 00:02	CG
Dichlorodifluoromethane	BRL	6.4		ug/Kg-dry	211881	1	08/23/2015 00:02	CG
Ethylbenzene	BRL	3.2		ug/Kg-dry	211881	1	08/23/2015 00:02	CG
Freon-113	BRL	6.4		ug/Kg-dry	211881	1	08/23/2015 00:02	CG
Isopropylbenzene	BRL	3.2		ug/Kg-dry	211881	1	08/23/2015 00:02	CG
m,p-Xylene	BRL	3.2		ug/Kg-dry	211881	1	08/23/2015 00:02	CG
Methyl acetate	BRL	3.2		ug/Kg-dry	211881	1	08/23/2015 00:02	CG
Methyl tert-butyl ether	BRL	3.2		ug/Kg-dry	211881	1	08/23/2015 00:02	CG
Methylcyclohexane	BRL	3.2		ug/Kg-dry	211881	1	08/23/2015 00:02	CG
Methylene chloride	BRL	13		ug/Kg-dry	211881	1	08/23/2015 00:02	CG

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 27-Aug-15

<b>Client:</b>	Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b>	15229-SB-13-2
<b>Lab Order</b>	1508H20	<b>Tag Number:</b>	
<b>Project Name:</b>	PPC	<b>Collection Date:</b>	8/17/2015 4:38:00 PM
<b>Lab ID:</b>	1508H20-023A	<b>Matrix:</b>	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
o-Xylene	BRL	3.2		ug/Kg-dry	211881	1	08/23/2015 00:02	CG
Styrene	BRL	3.2		ug/Kg-dry	211881	1	08/23/2015 00:02	CG
Tetrachloroethene	BRL	3.2		ug/Kg-dry	211881	1	08/23/2015 00:02	CG
Toluene	BRL	3.2		ug/Kg-dry	211881	1	08/23/2015 00:02	CG
trans-1,2-Dichloroethene	BRL	3.2		ug/Kg-dry	211881	1	08/23/2015 00:02	CG
trans-1,3-Dichloropropene	BRL	3.2		ug/Kg-dry	211881	1	08/23/2015 00:02	CG
Trichloroethene	BRL	3.2		ug/Kg-dry	211881	1	08/23/2015 00:02	CG
Trichlorofluoromethane	BRL	3.2		ug/Kg-dry	211881	1	08/23/2015 00:02	CG
Vinyl chloride	BRL	6.4		ug/Kg-dry	211881	1	08/23/2015 00:02	CG
Surr: 4-Bromofluorobenzene	84	70-128		%REC	211881	1	08/23/2015 00:02	CG
Surr: Dibromofluoromethane	95	78.2-128		%REC	211881	1	08/23/2015 00:02	CG
Surr: Toluene-d8	98.4	76.5-116		%REC	211881	1	08/23/2015 00:02	CG

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 27-Aug-15

<b>Client:</b>	Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b>	15229-SB-13-2
<b>Lab Order</b>	1508H20	<b>Tag Number:</b>	
<b>Project Name:</b>	PPC	<b>Collection Date:</b>	8/17/2015 4:38:00 PM
<b>Lab ID:</b>	1508H20-023B	<b>Matrix:</b>	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	17.6	0		wt%	R298772	1	08/26/2015 11:00	PF

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 27-Aug-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15229-SB-20-2
<b>Lab Order:</b> 1508H20	<b>Tag Number:</b>
<b>Project Name:</b> PPC	<b>Collection Date:</b> 8/17/2015 5:53:00 PM
<b>Lab ID:</b> 1508H20-024A	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	2.1		ug/Kg-dry	211881	1	08/23/2015 00:26	CG
1,1,2,2-Tetrachloroethane	BRL	2.1		ug/Kg-dry	211881	1	08/23/2015 00:26	CG
1,1,2-Trichloroethane	BRL	2.1		ug/Kg-dry	211881	1	08/23/2015 00:26	CG
1,1-Dichloroethane	BRL	2.1		ug/Kg-dry	211881	1	08/23/2015 00:26	CG
1,1-Dichloroethene	BRL	2.1		ug/Kg-dry	211881	1	08/23/2015 00:26	CG
1,2,4-Trichlorobenzene	BRL	2.1		ug/Kg-dry	211881	1	08/23/2015 00:26	CG
1,2-Dibromo-3-chloropropane	BRL	2.1		ug/Kg-dry	211881	1	08/23/2015 00:26	CG
1,2-Dibromoethane	BRL	2.1		ug/Kg-dry	211881	1	08/23/2015 00:26	CG
1,2-Dichlorobenzene	BRL	2.1		ug/Kg-dry	211881	1	08/23/2015 00:26	CG
1,2-Dichloroethane	BRL	2.1		ug/Kg-dry	211881	1	08/23/2015 00:26	CG
1,2-Dichloropropane	BRL	2.1		ug/Kg-dry	211881	1	08/23/2015 00:26	CG
1,3-Dichlorobenzene	BRL	2.1		ug/Kg-dry	211881	1	08/23/2015 00:26	CG
1,4-Dichlorobenzene	BRL	2.1		ug/Kg-dry	211881	1	08/23/2015 00:26	CG
2-Butanone	80	21		ug/Kg-dry	211881	1	08/23/2015 00:26	CG
2-Hexanone	12	4.3		ug/Kg-dry	211881	1	08/23/2015 00:26	CG
4-Methyl-2-pentanone	20	4.3		ug/Kg-dry	211881	1	08/23/2015 00:26	CG
Acetone	350	43	E	ug/Kg-dry	211881	1	08/23/2015 00:26	CG
Benzene	BRL	2.1		ug/Kg-dry	211881	1	08/23/2015 00:26	CG
Bromodichloromethane	BRL	2.1		ug/Kg-dry	211881	1	08/23/2015 00:26	CG
Bromoform	BRL	2.1		ug/Kg-dry	211881	1	08/23/2015 00:26	CG
Bromomethane	BRL	2.1		ug/Kg-dry	211881	1	08/23/2015 00:26	CG
Carbon disulfide	BRL	4.3		ug/Kg-dry	211881	1	08/23/2015 00:26	CG
Carbon tetrachloride	BRL	2.1		ug/Kg-dry	211881	1	08/23/2015 00:26	CG
Chlorobenzene	BRL	2.1		ug/Kg-dry	211881	1	08/23/2015 00:26	CG
Chloroethane	BRL	4.3		ug/Kg-dry	211881	1	08/23/2015 00:26	CG
Chloroform	BRL	2.1		ug/Kg-dry	211881	1	08/23/2015 00:26	CG
Chloromethane	BRL	4.3		ug/Kg-dry	211881	1	08/23/2015 00:26	CG
cis-1,2-Dichloroethene	BRL	2.1		ug/Kg-dry	211881	1	08/23/2015 00:26	CG
cis-1,3-Dichloropropene	BRL	2.1		ug/Kg-dry	211881	1	08/23/2015 00:26	CG
Cyclohexane	BRL	2.1		ug/Kg-dry	211881	1	08/23/2015 00:26	CG
Dibromochloromethane	BRL	2.1		ug/Kg-dry	211881	1	08/23/2015 00:26	CG
Dichlorodifluoromethane	BRL	4.3		ug/Kg-dry	211881	1	08/23/2015 00:26	CG
Ethylbenzene	BRL	2.1		ug/Kg-dry	211881	1	08/23/2015 00:26	CG
Freon-113	BRL	4.3		ug/Kg-dry	211881	1	08/23/2015 00:26	CG
Isopropylbenzene	BRL	2.1		ug/Kg-dry	211881	1	08/23/2015 00:26	CG
m,p-Xylene	BRL	2.1		ug/Kg-dry	211881	1	08/23/2015 00:26	CG
Methyl acetate	BRL	2.1		ug/Kg-dry	211881	1	08/23/2015 00:26	CG
Methyl tert-butyl ether	BRL	2.1		ug/Kg-dry	211881	1	08/23/2015 00:26	CG
Methylcyclohexane	BRL	2.1		ug/Kg-dry	211881	1	08/23/2015 00:26	CG
Methylene chloride	BRL	8.6		ug/Kg-dry	211881	1	08/23/2015 00:26	CG

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 27-Aug-15

<b>Client:</b>	Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b>	15229-SB-20-2
<b>Lab Order</b>	1508H20	<b>Tag Number:</b>	
<b>Project Name:</b>	PPC	<b>Collection Date:</b>	8/17/2015 5:53:00 PM
<b>Lab ID:</b>	1508H20-024A	<b>Matrix:</b>	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
o-Xylene	BRL	2.1		ug/Kg-dry	211881	1	08/23/2015 00:26	CG
Styrene	BRL	2.1		ug/Kg-dry	211881	1	08/23/2015 00:26	CG
Tetrachloroethene	BRL	2.1		ug/Kg-dry	211881	1	08/23/2015 00:26	CG
Toluene	3.8	2.1		ug/Kg-dry	211881	1	08/23/2015 00:26	CG
trans-1,2-Dichloroethene	BRL	2.1		ug/Kg-dry	211881	1	08/23/2015 00:26	CG
trans-1,3-Dichloropropene	BRL	2.1		ug/Kg-dry	211881	1	08/23/2015 00:26	CG
Trichloroethene	BRL	2.1		ug/Kg-dry	211881	1	08/23/2015 00:26	CG
Trichlorofluoromethane	BRL	2.1		ug/Kg-dry	211881	1	08/23/2015 00:26	CG
Vinyl chloride	BRL	4.3		ug/Kg-dry	211881	1	08/23/2015 00:26	CG
Surr: 4-Bromofluorobenzene	90.9	70-128		%REC	211881	1	08/23/2015 00:26	CG
Surr: Dibromofluoromethane	96.3	78.2-128		%REC	211881	1	08/23/2015 00:26	CG
Surr: Toluene-d8	102	76.5-116		%REC	211881	1	08/23/2015 00:26	CG

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 27-Aug-15

<b>Client:</b>	Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b>	15229-SB-20-2
<b>Lab Order</b>	1508H20	<b>Tag Number:</b>	
<b>Project Name:</b>	PPC	<b>Collection Date:</b>	8/17/2015 5:53:00 PM
<b>Lab ID:</b>	1508H20-024B	<b>Matrix:</b>	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	20.7	0		wt%	R298772	1	08/26/2015 11:00	PF

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

Date: 27-Aug-15

<b>Client:</b>	Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b>	15230-SB-15-2
<b>Lab Order</b>	1508H20	<b>Tag Number:</b>	
<b>Project Name:</b>	PPC	<b>Collection Date:</b>	8/18/2015 2:14:00 PM
<b>Lab ID:</b>	1508H20-025A	<b>Matrix:</b>	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	3.8		ug/Kg-dry	211881	1	08/23/2015 00:50	CG
1,1,2,2-Tetrachloroethane	BRL	3.8		ug/Kg-dry	211881	1	08/23/2015 00:50	CG
1,1,2-Trichloroethane	BRL	3.8		ug/Kg-dry	211881	1	08/23/2015 00:50	CG
1,1-Dichloroethane	BRL	3.8		ug/Kg-dry	211881	1	08/23/2015 00:50	CG
1,1-Dichloroethene	BRL	3.8		ug/Kg-dry	211881	1	08/23/2015 00:50	CG
1,2,4-Trichlorobenzene	BRL	3.8		ug/Kg-dry	211881	1	08/23/2015 00:50	CG
1,2-Dibromo-3-chloropropane	BRL	3.8		ug/Kg-dry	211881	1	08/23/2015 00:50	CG
1,2-Dibromoethane	BRL	3.8		ug/Kg-dry	211881	1	08/23/2015 00:50	CG
1,2-Dichlorobenzene	BRL	3.8		ug/Kg-dry	211881	1	08/23/2015 00:50	CG
1,2-Dichloroethane	BRL	3.8		ug/Kg-dry	211881	1	08/23/2015 00:50	CG
1,2-Dichloropropane	BRL	3.8		ug/Kg-dry	211881	1	08/23/2015 00:50	CG
1,3-Dichlorobenzene	BRL	3.8		ug/Kg-dry	211881	1	08/23/2015 00:50	CG
1,4-Dichlorobenzene	BRL	3.8		ug/Kg-dry	211881	1	08/23/2015 00:50	CG
2-Butanone	BRL	38		ug/Kg-dry	211881	1	08/23/2015 00:50	CG
2-Hexanone	BRL	7.6		ug/Kg-dry	211881	1	08/23/2015 00:50	CG
4-Methyl-2-pentanone	BRL	7.6		ug/Kg-dry	211881	1	08/23/2015 00:50	CG
Acetone	BRL	76		ug/Kg-dry	211881	1	08/23/2015 00:50	CG
Benzene	BRL	3.8		ug/Kg-dry	211881	1	08/23/2015 00:50	CG
Bromodichloromethane	BRL	3.8		ug/Kg-dry	211881	1	08/23/2015 00:50	CG
Bromoform	BRL	3.8		ug/Kg-dry	211881	1	08/23/2015 00:50	CG
Bromomethane	BRL	3.8		ug/Kg-dry	211881	1	08/23/2015 00:50	CG
Carbon disulfide	BRL	7.6		ug/Kg-dry	211881	1	08/23/2015 00:50	CG
Carbon tetrachloride	BRL	3.8		ug/Kg-dry	211881	1	08/23/2015 00:50	CG
Chlorobenzene	BRL	3.8		ug/Kg-dry	211881	1	08/23/2015 00:50	CG
Chloroethane	BRL	7.6		ug/Kg-dry	211881	1	08/23/2015 00:50	CG
Chloroform	BRL	3.8		ug/Kg-dry	211881	1	08/23/2015 00:50	CG
Chloromethane	BRL	7.6		ug/Kg-dry	211881	1	08/23/2015 00:50	CG
cis-1,2-Dichloroethene	BRL	3.8		ug/Kg-dry	211881	1	08/23/2015 00:50	CG
cis-1,3-Dichloropropene	BRL	3.8		ug/Kg-dry	211881	1	08/23/2015 00:50	CG
Cyclohexane	BRL	3.8		ug/Kg-dry	211881	1	08/23/2015 00:50	CG
Dibromochloromethane	BRL	3.8		ug/Kg-dry	211881	1	08/23/2015 00:50	CG
Dichlorodifluoromethane	BRL	7.6		ug/Kg-dry	211881	1	08/23/2015 00:50	CG
Ethylbenzene	BRL	3.8		ug/Kg-dry	211881	1	08/23/2015 00:50	CG
Freon-113	BRL	7.6		ug/Kg-dry	211881	1	08/23/2015 00:50	CG
Isopropylbenzene	BRL	3.8		ug/Kg-dry	211881	1	08/23/2015 00:50	CG
m,p-Xylene	BRL	3.8		ug/Kg-dry	211881	1	08/23/2015 00:50	CG
Methyl acetate	BRL	3.8		ug/Kg-dry	211881	1	08/23/2015 00:50	CG
Methyl tert-butyl ether	BRL	3.8		ug/Kg-dry	211881	1	08/23/2015 00:50	CG
Methylcyclohexane	BRL	3.8		ug/Kg-dry	211881	1	08/23/2015 00:50	CG
Methylene chloride	BRL	15		ug/Kg-dry	211881	1	08/23/2015 00:50	CG

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 27-Aug-15

<b>Client:</b>	Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b>	15230-SB-15-2
<b>Lab Order</b>	1508H20	<b>Tag Number:</b>	
<b>Project Name:</b>	PPC	<b>Collection Date:</b>	8/18/2015 2:14:00 PM
<b>Lab ID:</b>	1508H20-025A	<b>Matrix:</b>	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
o-Xylene	BRL	3.8		ug/Kg-dry	211881	1	08/23/2015 00:50	CG
Styrene	BRL	3.8		ug/Kg-dry	211881	1	08/23/2015 00:50	CG
Tetrachloroethene	BRL	3.8		ug/Kg-dry	211881	1	08/23/2015 00:50	CG
Toluene	BRL	3.8		ug/Kg-dry	211881	1	08/23/2015 00:50	CG
trans-1,2-Dichloroethene	BRL	3.8		ug/Kg-dry	211881	1	08/23/2015 00:50	CG
trans-1,3-Dichloropropene	BRL	3.8		ug/Kg-dry	211881	1	08/23/2015 00:50	CG
Trichloroethene	BRL	3.8		ug/Kg-dry	211881	1	08/23/2015 00:50	CG
Trichlorofluoromethane	BRL	3.8		ug/Kg-dry	211881	1	08/23/2015 00:50	CG
Vinyl chloride	BRL	7.6		ug/Kg-dry	211881	1	08/23/2015 00:50	CG
Surr: 4-Bromofluorobenzene	87.3	70-128		%REC	211881	1	08/23/2015 00:50	CG
Surr: Dibromofluoromethane	94.8	78.2-128		%REC	211881	1	08/23/2015 00:50	CG
Surr: Toluene-d8	98.8	76.5-116		%REC	211881	1	08/23/2015 00:50	CG

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit



**Analytical Environmental Services, Inc**

**Date:** 27-Aug-15

<b>Client:</b>	Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b>	15230-SB-15-2
<b>Lab Order</b>	1508H20	<b>Tag Number:</b>	
<b>Project Name:</b>	PPC	<b>Collection Date:</b>	8/18/2015 2:14:00 PM
<b>Lab ID:</b>	1508H20-025B	<b>Matrix:</b>	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	17.8	0		wt%	R298772	1	08/26/2015 11:00	PF

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 27-Aug-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15230-SB-16-2
<b>Lab Order:</b> 1508H20	<b>Tag Number:</b>
<b>Project Name:</b> PPC	<b>Collection Date:</b> 8/18/2015 2:31:00 PM
<b>Lab ID:</b> 1508H20-026A	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	2.1		ug/Kg-dry	211881	1	08/24/2015 15:53	CG
1,1,2,2-Tetrachloroethane	BRL	2.1		ug/Kg-dry	211881	1	08/24/2015 15:53	CG
1,1,2-Trichloroethane	BRL	2.1		ug/Kg-dry	211881	1	08/24/2015 15:53	CG
1,1-Dichloroethane	BRL	2.1		ug/Kg-dry	211881	1	08/24/2015 15:53	CG
1,1-Dichloroethene	BRL	2.1		ug/Kg-dry	211881	1	08/24/2015 15:53	CG
1,2,4-Trichlorobenzene	BRL	2.1		ug/Kg-dry	211881	1	08/24/2015 15:53	CG
1,2-Dibromo-3-chloropropane	BRL	2.1		ug/Kg-dry	211881	1	08/24/2015 15:53	CG
1,2-Dibromoethane	BRL	2.1		ug/Kg-dry	211881	1	08/24/2015 15:53	CG
1,2-Dichlorobenzene	BRL	2.1		ug/Kg-dry	211881	1	08/24/2015 15:53	CG
1,2-Dichloroethane	BRL	2.1		ug/Kg-dry	211881	1	08/24/2015 15:53	CG
1,2-Dichloropropane	BRL	2.1		ug/Kg-dry	211881	1	08/24/2015 15:53	CG
1,3-Dichlorobenzene	BRL	2.1		ug/Kg-dry	211881	1	08/24/2015 15:53	CG
1,4-Dichlorobenzene	BRL	2.1		ug/Kg-dry	211881	1	08/24/2015 15:53	CG
2-Butanone	BRL	21		ug/Kg-dry	211881	1	08/24/2015 15:53	CG
2-Hexanone	BRL	4.2		ug/Kg-dry	211881	1	08/24/2015 15:53	CG
4-Methyl-2-pentanone	BRL	4.2		ug/Kg-dry	211881	1	08/24/2015 15:53	CG
Acetone	BRL	42		ug/Kg-dry	211881	1	08/24/2015 15:53	CG
Benzene	BRL	2.1		ug/Kg-dry	211881	1	08/24/2015 15:53	CG
Bromodichloromethane	BRL	2.1		ug/Kg-dry	211881	1	08/24/2015 15:53	CG
Bromoform	BRL	2.1		ug/Kg-dry	211881	1	08/24/2015 15:53	CG
Bromomethane	BRL	2.1		ug/Kg-dry	211881	1	08/24/2015 15:53	CG
Carbon disulfide	BRL	4.2		ug/Kg-dry	211881	1	08/24/2015 15:53	CG
Carbon tetrachloride	BRL	2.1		ug/Kg-dry	211881	1	08/24/2015 15:53	CG
Chlorobenzene	BRL	2.1		ug/Kg-dry	211881	1	08/24/2015 15:53	CG
Chloroethane	BRL	4.2		ug/Kg-dry	211881	1	08/24/2015 15:53	CG
Chloroform	BRL	2.1		ug/Kg-dry	211881	1	08/24/2015 15:53	CG
Chloromethane	BRL	4.2		ug/Kg-dry	211881	1	08/24/2015 15:53	CG
cis-1,2-Dichloroethene	BRL	2.1		ug/Kg-dry	211881	1	08/24/2015 15:53	CG
cis-1,3-Dichloropropene	BRL	2.1		ug/Kg-dry	211881	1	08/24/2015 15:53	CG
Cyclohexane	BRL	2.1		ug/Kg-dry	211881	1	08/24/2015 15:53	CG
Dibromochloromethane	BRL	2.1		ug/Kg-dry	211881	1	08/24/2015 15:53	CG
Dichlorodifluoromethane	BRL	4.2		ug/Kg-dry	211881	1	08/24/2015 15:53	CG
Ethylbenzene	BRL	2.1		ug/Kg-dry	211881	1	08/24/2015 15:53	CG
Freon-113	BRL	4.2		ug/Kg-dry	211881	1	08/24/2015 15:53	CG
Isopropylbenzene	BRL	2.1		ug/Kg-dry	211881	1	08/24/2015 15:53	CG
m,p-Xylene	BRL	2.1		ug/Kg-dry	211881	1	08/24/2015 15:53	CG
Methyl acetate	BRL	2.1		ug/Kg-dry	211881	1	08/24/2015 15:53	CG
Methyl tert-butyl ether	BRL	2.1		ug/Kg-dry	211881	1	08/24/2015 15:53	CG
Methylcyclohexane	BRL	2.1		ug/Kg-dry	211881	1	08/24/2015 15:53	CG
Methylene chloride	BRL	8.4		ug/Kg-dry	211881	1	08/24/2015 15:53	CG

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 27-Aug-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15230-SB-16-2
<b>Lab Order:</b> 1508H20	<b>Tag Number:</b>
<b>Project Name:</b> PPC	<b>Collection Date:</b> 8/18/2015 2:31:00 PM
<b>Lab ID:</b> 1508H20-026A	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
o-Xylene	BRL	2.1		ug/Kg-dry	211881	1	08/24/2015 15:53	CG
Styrene	BRL	2.1		ug/Kg-dry	211881	1	08/24/2015 15:53	CG
Tetrachloroethene	BRL	2.1		ug/Kg-dry	211881	1	08/24/2015 15:53	CG
Toluene	BRL	2.1		ug/Kg-dry	211881	1	08/24/2015 15:53	CG
trans-1,2-Dichloroethene	BRL	2.1		ug/Kg-dry	211881	1	08/24/2015 15:53	CG
trans-1,3-Dichloropropene	BRL	2.1		ug/Kg-dry	211881	1	08/24/2015 15:53	CG
Trichloroethene	BRL	2.1		ug/Kg-dry	211881	1	08/24/2015 15:53	CG
Trichlorofluoromethane	BRL	2.1		ug/Kg-dry	211881	1	08/24/2015 15:53	CG
Vinyl chloride	BRL	4.2		ug/Kg-dry	211881	1	08/24/2015 15:53	CG
Surr: 4-Bromofluorobenzene	84.6	70-128		%REC	211881	1	08/24/2015 15:53	CG
Surr: Dibromofluoromethane	95.3	78.2-128		%REC	211881	1	08/24/2015 15:53	CG
Surr: Toluene-d8	98.8	76.5-116		%REC	211881	1	08/24/2015 15:53	CG

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 27-Aug-15

<b>Client:</b>	Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b>	15230-SB-16-2
<b>Lab Order</b>	1508H20	<b>Tag Number:</b>	
<b>Project Name:</b>	PPC	<b>Collection Date:</b>	8/18/2015 2:31:00 PM
<b>Lab ID:</b>	1508H20-026B	<b>Matrix:</b>	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	14.4	0		wt%	R298772	1	08/26/2015 11:00	PF

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

Date: 27-Aug-15

<b>Client:</b>	Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b>	15230-SB-17-2
<b>Lab Order</b>	1508H20	<b>Tag Number:</b>	
<b>Project Name:</b>	PPC	<b>Collection Date:</b>	8/18/2015 2:46:00 PM
<b>Lab ID:</b>	1508H20-027A	<b>Matrix:</b>	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	3.0		ug/Kg-dry	211881	1	08/24/2015 16:17	CG
1,1,2,2-Tetrachloroethane	BRL	3.0		ug/Kg-dry	211881	1	08/24/2015 16:17	CG
1,1,2-Trichloroethane	BRL	3.0		ug/Kg-dry	211881	1	08/24/2015 16:17	CG
1,1-Dichloroethane	BRL	3.0		ug/Kg-dry	211881	1	08/24/2015 16:17	CG
1,1-Dichloroethene	BRL	3.0		ug/Kg-dry	211881	1	08/24/2015 16:17	CG
1,2,4-Trichlorobenzene	BRL	3.0		ug/Kg-dry	211881	1	08/24/2015 16:17	CG
1,2-Dibromo-3-chloropropane	BRL	3.0		ug/Kg-dry	211881	1	08/24/2015 16:17	CG
1,2-Dibromoethane	BRL	3.0		ug/Kg-dry	211881	1	08/24/2015 16:17	CG
1,2-Dichlorobenzene	BRL	3.0		ug/Kg-dry	211881	1	08/24/2015 16:17	CG
1,2-Dichloroethane	BRL	3.0		ug/Kg-dry	211881	1	08/24/2015 16:17	CG
1,2-Dichloropropane	BRL	3.0		ug/Kg-dry	211881	1	08/24/2015 16:17	CG
1,3-Dichlorobenzene	BRL	3.0		ug/Kg-dry	211881	1	08/24/2015 16:17	CG
1,4-Dichlorobenzene	BRL	3.0		ug/Kg-dry	211881	1	08/24/2015 16:17	CG
2-Butanone	BRL	30		ug/Kg-dry	211881	1	08/24/2015 16:17	CG
2-Hexanone	BRL	6.1		ug/Kg-dry	211881	1	08/24/2015 16:17	CG
4-Methyl-2-pentanone	BRL	6.1		ug/Kg-dry	211881	1	08/24/2015 16:17	CG
Acetone	BRL	61		ug/Kg-dry	211881	1	08/24/2015 16:17	CG
Benzene	BRL	3.0		ug/Kg-dry	211881	1	08/24/2015 16:17	CG
Bromodichloromethane	BRL	3.0		ug/Kg-dry	211881	1	08/24/2015 16:17	CG
Bromoform	BRL	3.0		ug/Kg-dry	211881	1	08/24/2015 16:17	CG
Bromomethane	BRL	3.0		ug/Kg-dry	211881	1	08/24/2015 16:17	CG
Carbon disulfide	BRL	6.1		ug/Kg-dry	211881	1	08/24/2015 16:17	CG
Carbon tetrachloride	BRL	3.0		ug/Kg-dry	211881	1	08/24/2015 16:17	CG
Chlorobenzene	BRL	3.0		ug/Kg-dry	211881	1	08/24/2015 16:17	CG
Chloroethane	BRL	6.1		ug/Kg-dry	211881	1	08/24/2015 16:17	CG
Chloroform	BRL	3.0		ug/Kg-dry	211881	1	08/24/2015 16:17	CG
Chloromethane	BRL	6.1		ug/Kg-dry	211881	1	08/24/2015 16:17	CG
cis-1,2-Dichloroethene	BRL	3.0		ug/Kg-dry	211881	1	08/24/2015 16:17	CG
cis-1,3-Dichloropropene	BRL	3.0		ug/Kg-dry	211881	1	08/24/2015 16:17	CG
Cyclohexane	BRL	3.0		ug/Kg-dry	211881	1	08/24/2015 16:17	CG
Dibromochloromethane	BRL	3.0		ug/Kg-dry	211881	1	08/24/2015 16:17	CG
Dichlorodifluoromethane	BRL	6.1		ug/Kg-dry	211881	1	08/24/2015 16:17	CG
Ethylbenzene	BRL	3.0		ug/Kg-dry	211881	1	08/24/2015 16:17	CG
Freon-113	BRL	6.1		ug/Kg-dry	211881	1	08/24/2015 16:17	CG
Isopropylbenzene	BRL	3.0		ug/Kg-dry	211881	1	08/24/2015 16:17	CG
m,p-Xylene	BRL	3.0		ug/Kg-dry	211881	1	08/24/2015 16:17	CG
Methyl acetate	BRL	3.0		ug/Kg-dry	211881	1	08/24/2015 16:17	CG
Methyl tert-butyl ether	BRL	3.0		ug/Kg-dry	211881	1	08/24/2015 16:17	CG
Methylcyclohexane	BRL	3.0		ug/Kg-dry	211881	1	08/24/2015 16:17	CG
Methylene chloride	BRL	12		ug/Kg-dry	211881	1	08/24/2015 16:17	CG

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 27-Aug-15

<b>Client:</b>	Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b>	15230-SB-17-2
<b>Lab Order</b>	1508H20	<b>Tag Number:</b>	
<b>Project Name:</b>	PPC	<b>Collection Date:</b>	8/18/2015 2:46:00 PM
<b>Lab ID:</b>	1508H20-027A	<b>Matrix:</b>	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
o-Xylene	BRL	3.0		ug/Kg-dry	211881	1	08/24/2015 16:17	CG
Styrene	BRL	3.0		ug/Kg-dry	211881	1	08/24/2015 16:17	CG
Tetrachloroethene	BRL	3.0		ug/Kg-dry	211881	1	08/24/2015 16:17	CG
Toluene	BRL	3.0		ug/Kg-dry	211881	1	08/24/2015 16:17	CG
trans-1,2-Dichloroethene	BRL	3.0		ug/Kg-dry	211881	1	08/24/2015 16:17	CG
trans-1,3-Dichloropropene	BRL	3.0		ug/Kg-dry	211881	1	08/24/2015 16:17	CG
Trichloroethene	BRL	3.0		ug/Kg-dry	211881	1	08/24/2015 16:17	CG
Trichlorofluoromethane	BRL	3.0		ug/Kg-dry	211881	1	08/24/2015 16:17	CG
Vinyl chloride	BRL	6.1		ug/Kg-dry	211881	1	08/24/2015 16:17	CG
Surr: 4-Bromofluorobenzene	74.9	70-128		%REC	211881	1	08/24/2015 16:17	CG
Surr: Dibromofluoromethane	93	78.2-128		%REC	211881	1	08/24/2015 16:17	CG
Surr: Toluene-d8	96.2	76.5-116		%REC	211881	1	08/24/2015 16:17	CG

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 27-Aug-15

<b>Client:</b>	Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b>	15230-SB-17-2
<b>Lab Order</b>	1508H20	<b>Tag Number:</b>	
<b>Project Name:</b>	PPC	<b>Collection Date:</b>	8/18/2015 2:46:00 PM
<b>Lab ID:</b>	1508H20-027B	<b>Matrix:</b>	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	20.7	0		wt%	R298772	1	08/26/2015 11:00	PF

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

Date: 27-Aug-15

<b>Client:</b>	Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b>	TRIP BLANK
<b>Lab Order</b>	1508H20	<b>Tag Number:</b>	
<b>Project Name:</b>	PPC	<b>Collection Date:</b>	8/14/2015
<b>Lab ID:</b>	1508H20-028A	<b>Matrix:</b>	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
1,1,1-Trichloroethane	BRL	5.0		ug/L	211946	1	08/24/2015 18:28	CH
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	211946	1	08/24/2015 18:28	CH
1,1,2-Trichloroethane	BRL	5.0		ug/L	211946	1	08/24/2015 18:28	CH
1,1-Dichloroethane	BRL	5.0		ug/L	211946	1	08/24/2015 18:28	CH
1,1-Dichloroethene	BRL	5.0		ug/L	211946	1	08/24/2015 18:28	CH
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	211946	1	08/24/2015 18:28	CH
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	211946	1	08/24/2015 18:28	CH
1,2-Dibromoethane	BRL	5.0		ug/L	211946	1	08/24/2015 18:28	CH
1,2-Dichlorobenzene	BRL	5.0		ug/L	211946	1	08/24/2015 18:28	CH
1,2-Dichloroethane	BRL	5.0		ug/L	211946	1	08/24/2015 18:28	CH
1,2-Dichloropropane	BRL	5.0		ug/L	211946	1	08/24/2015 18:28	CH
1,3-Dichlorobenzene	BRL	5.0		ug/L	211946	1	08/24/2015 18:28	CH
1,4-Dichlorobenzene	BRL	5.0		ug/L	211946	1	08/24/2015 18:28	CH
2-Butanone	BRL	50		ug/L	211946	1	08/24/2015 18:28	CH
2-Hexanone	BRL	10		ug/L	211946	1	08/24/2015 18:28	CH
4-Methyl-2-pentanone	BRL	10		ug/L	211946	1	08/24/2015 18:28	CH
Acetone	BRL	50		ug/L	211946	1	08/24/2015 18:28	CH
Benzene	BRL	5.0		ug/L	211946	1	08/24/2015 18:28	CH
Bromodichloromethane	BRL	5.0		ug/L	211946	1	08/24/2015 18:28	CH
Bromoform	BRL	5.0		ug/L	211946	1	08/24/2015 18:28	CH
Bromomethane	BRL	5.0		ug/L	211946	1	08/24/2015 18:28	CH
Carbon disulfide	BRL	5.0		ug/L	211946	1	08/24/2015 18:28	CH
Carbon tetrachloride	BRL	5.0		ug/L	211946	1	08/24/2015 18:28	CH
Chlorobenzene	BRL	5.0		ug/L	211946	1	08/24/2015 18:28	CH
Chloroethane	BRL	10		ug/L	211946	1	08/24/2015 18:28	CH
Chloroform	BRL	5.0		ug/L	211946	1	08/24/2015 18:28	CH
Chloromethane	BRL	10		ug/L	211946	1	08/24/2015 18:28	CH
cis-1,2-Dichloroethene	BRL	5.0		ug/L	211946	1	08/24/2015 18:28	CH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	211946	1	08/24/2015 18:28	CH
Cyclohexane	BRL	5.0		ug/L	211946	1	08/24/2015 18:28	CH
Dibromochloromethane	BRL	5.0		ug/L	211946	1	08/24/2015 18:28	CH
Dichlorodifluoromethane	BRL	10		ug/L	211946	1	08/24/2015 18:28	CH
Ethylbenzene	BRL	5.0		ug/L	211946	1	08/24/2015 18:28	CH
Freon-113	BRL	10		ug/L	211946	1	08/24/2015 18:28	CH
Isopropylbenzene	BRL	5.0		ug/L	211946	1	08/24/2015 18:28	CH
m,p-Xylene	BRL	5.0		ug/L	211946	1	08/24/2015 18:28	CH
Methyl acetate	BRL	5.0		ug/L	211946	1	08/24/2015 18:28	CH
Methyl tert-butyl ether	BRL	5.0		ug/L	211946	1	08/24/2015 18:28	CH
Methylcyclohexane	BRL	5.0		ug/L	211946	1	08/24/2015 18:28	CH
Methylene chloride	BRL	5.0		ug/L	211946	1	08/24/2015 18:28	CH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit



**Analytical Environmental Services, Inc**

**Date:** 27-Aug-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> TRIP BLANK
<b>Lab Order:</b> 1508H20	<b>Tag Number:</b>
<b>Project Name:</b> PPC	<b>Collection Date:</b> 8/14/2015
<b>Lab ID:</b> 1508H20-028A	<b>Matrix:</b> Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5030B)</b>								
o-Xylene	BRL	5.0		ug/L	211946	1	08/24/2015 18:28	CH
Styrene	BRL	5.0		ug/L	211946	1	08/24/2015 18:28	CH
Tetrachloroethene	BRL	5.0		ug/L	211946	1	08/24/2015 18:28	CH
Toluene	BRL	5.0		ug/L	211946	1	08/24/2015 18:28	CH
trans-1,2-Dichloroethene	BRL	5.0		ug/L	211946	1	08/24/2015 18:28	CH
trans-1,3-Dichloropropene	BRL	5.0		ug/L	211946	1	08/24/2015 18:28	CH
Trichloroethene	BRL	5.0		ug/L	211946	1	08/24/2015 18:28	CH
Trichlorofluoromethane	BRL	5.0		ug/L	211946	1	08/24/2015 18:28	CH
Vinyl chloride	BRL	2.0		ug/L	211946	1	08/24/2015 18:28	CH
Surr: 4-Bromofluorobenzene	86.5	70.6-123		%REC	211946	1	08/24/2015 18:28	CH
Surr: Dibromofluoromethane	94.6	78.7-124		%REC	211946	1	08/24/2015 18:28	CH
Surr: Toluene-d8	92.8	81.3-120		%REC	211946	1	08/24/2015 18:28	CH

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

Date: 27-Aug-15

<b>Client:</b>	Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b>	15231-SD-5
<b>Lab Order</b>	1508H20	<b>Tag Number:</b>	
<b>Project Name:</b>	PPC	<b>Collection Date:</b>	8/19/2015 9:38:00 AM
<b>Lab ID:</b>	1508H20-029A	<b>Matrix:</b>	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	7.0		ug/Kg-dry	211881	1	08/25/2015 13:26	CG
1,1,2,2-Tetrachloroethane	BRL	7.0		ug/Kg-dry	211881	1	08/25/2015 13:26	CG
1,1,2-Trichloroethane	BRL	7.0		ug/Kg-dry	211881	1	08/25/2015 13:26	CG
1,1-Dichloroethane	BRL	7.0		ug/Kg-dry	211881	1	08/25/2015 13:26	CG
1,1-Dichloroethene	BRL	7.0		ug/Kg-dry	211881	1	08/25/2015 13:26	CG
1,2,4-Trichlorobenzene	BRL	7.0		ug/Kg-dry	211881	1	08/25/2015 13:26	CG
1,2-Dibromo-3-chloropropane	BRL	7.0		ug/Kg-dry	211881	1	08/25/2015 13:26	CG
1,2-Dibromoethane	BRL	7.0		ug/Kg-dry	211881	1	08/25/2015 13:26	CG
1,2-Dichlorobenzene	BRL	7.0		ug/Kg-dry	211881	1	08/25/2015 13:26	CG
1,2-Dichloroethane	BRL	7.0		ug/Kg-dry	211881	1	08/25/2015 13:26	CG
1,2-Dichloropropane	BRL	7.0		ug/Kg-dry	211881	1	08/25/2015 13:26	CG
1,3-Dichlorobenzene	BRL	7.0		ug/Kg-dry	211881	1	08/25/2015 13:26	CG
1,4-Dichlorobenzene	BRL	7.0		ug/Kg-dry	211881	1	08/25/2015 13:26	CG
2-Butanone	BRL	70		ug/Kg-dry	211881	1	08/25/2015 13:26	CG
2-Hexanone	BRL	14		ug/Kg-dry	211881	1	08/25/2015 13:26	CG
4-Methyl-2-pentanone	BRL	14		ug/Kg-dry	211881	1	08/25/2015 13:26	CG
Acetone	540	140		ug/Kg-dry	211881	1	08/25/2015 13:26	CG
Benzene	BRL	7.0		ug/Kg-dry	211881	1	08/25/2015 13:26	CG
Bromodichloromethane	BRL	7.0		ug/Kg-dry	211881	1	08/25/2015 13:26	CG
Bromoform	BRL	7.0		ug/Kg-dry	211881	1	08/25/2015 13:26	CG
Bromomethane	BRL	7.0		ug/Kg-dry	211881	1	08/25/2015 13:26	CG
Carbon disulfide	BRL	14		ug/Kg-dry	211881	1	08/25/2015 13:26	CG
Carbon tetrachloride	BRL	7.0		ug/Kg-dry	211881	1	08/25/2015 13:26	CG
Chlorobenzene	BRL	7.0		ug/Kg-dry	211881	1	08/25/2015 13:26	CG
Chloroethane	BRL	14		ug/Kg-dry	211881	1	08/25/2015 13:26	CG
Chloroform	BRL	7.0		ug/Kg-dry	211881	1	08/25/2015 13:26	CG
Chloromethane	BRL	14		ug/Kg-dry	211881	1	08/25/2015 13:26	CG
cis-1,2-Dichloroethene	BRL	7.0		ug/Kg-dry	211881	1	08/25/2015 13:26	CG
cis-1,3-Dichloropropene	BRL	7.0		ug/Kg-dry	211881	1	08/25/2015 13:26	CG
Cyclohexane	BRL	7.0		ug/Kg-dry	211881	1	08/25/2015 13:26	CG
Dibromochloromethane	BRL	7.0		ug/Kg-dry	211881	1	08/25/2015 13:26	CG
Dichlorodifluoromethane	BRL	14		ug/Kg-dry	211881	1	08/25/2015 13:26	CG
Ethylbenzene	BRL	7.0		ug/Kg-dry	211881	1	08/25/2015 13:26	CG
Freon-113	BRL	14		ug/Kg-dry	211881	1	08/25/2015 13:26	CG
Isopropylbenzene	BRL	7.0		ug/Kg-dry	211881	1	08/25/2015 13:26	CG
m,p-Xylene	BRL	7.0		ug/Kg-dry	211881	1	08/25/2015 13:26	CG
Methyl acetate	BRL	7.0		ug/Kg-dry	211881	1	08/25/2015 13:26	CG
Methyl tert-butyl ether	BRL	7.0		ug/Kg-dry	211881	1	08/25/2015 13:26	CG
Methylcyclohexane	BRL	7.0		ug/Kg-dry	211881	1	08/25/2015 13:26	CG
Methylene chloride	BRL	28		ug/Kg-dry	211881	1	08/25/2015 13:26	CG

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 27-Aug-15

<b>Client:</b>	Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b>	15231-SD-5
<b>Lab Order</b>	1508H20	<b>Tag Number:</b>	
<b>Project Name:</b>	PPC	<b>Collection Date:</b>	8/19/2015 9:38:00 AM
<b>Lab ID:</b>	1508H20-029A	<b>Matrix:</b>	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
o-Xylene	BRL	7.0		ug/Kg-dry	211881	1	08/25/2015 13:26	CG
Styrene	BRL	7.0		ug/Kg-dry	211881	1	08/25/2015 13:26	CG
Tetrachloroethene	BRL	7.0		ug/Kg-dry	211881	1	08/25/2015 13:26	CG
Toluene	BRL	7.0		ug/Kg-dry	211881	1	08/25/2015 13:26	CG
trans-1,2-Dichloroethene	BRL	7.0		ug/Kg-dry	211881	1	08/25/2015 13:26	CG
trans-1,3-Dichloropropene	BRL	7.0		ug/Kg-dry	211881	1	08/25/2015 13:26	CG
Trichloroethene	BRL	7.0		ug/Kg-dry	211881	1	08/25/2015 13:26	CG
Trichlorofluoromethane	BRL	7.0		ug/Kg-dry	211881	1	08/25/2015 13:26	CG
Vinyl chloride	BRL	14		ug/Kg-dry	211881	1	08/25/2015 13:26	CG
Surr: 4-Bromofluorobenzene	67.7	70-128	S	%REC	211881	1	08/25/2015 13:26	CG
Surr: Dibromofluoromethane	110	78.2-128		%REC	211881	1	08/25/2015 13:26	CG
Surr: Toluene-d8	70.7	76.5-116	S	%REC	211881	1	08/25/2015 13:26	CG

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 27-Aug-15

<b>Client:</b>	Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b>	15231-SD-5
<b>Lab Order</b>	1508H20	<b>Tag Number:</b>	
<b>Project Name:</b>	PPC	<b>Collection Date:</b>	8/19/2015 9:38:00 AM
<b>Lab ID:</b>	1508H20-029B	<b>Matrix:</b>	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	44.9	0		wt%	R298772	1	08/26/2015 11:00	PF

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 27-Aug-15

<b>Client:</b>	Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b>	15231-SD-6
<b>Lab Order</b>	1508H20	<b>Tag Number:</b>	
<b>Project Name:</b>	PPC	<b>Collection Date:</b>	8/19/2015 9:27:00 AM
<b>Lab ID:</b>	1508H20-030A	<b>Matrix:</b>	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	5.3		ug/Kg-dry	211881	1	08/25/2015 14:15	CG
1,1,2,2-Tetrachloroethane	BRL	5.3		ug/Kg-dry	211881	1	08/25/2015 14:15	CG
1,1,2-Trichloroethane	BRL	5.3		ug/Kg-dry	211881	1	08/25/2015 14:15	CG
1,1-Dichloroethane	BRL	5.3		ug/Kg-dry	211881	1	08/25/2015 14:15	CG
1,1-Dichloroethene	BRL	5.3		ug/Kg-dry	211881	1	08/25/2015 14:15	CG
1,2,4-Trichlorobenzene	BRL	5.3		ug/Kg-dry	211881	1	08/25/2015 14:15	CG
1,2-Dibromo-3-chloropropane	BRL	5.3		ug/Kg-dry	211881	1	08/25/2015 14:15	CG
1,2-Dibromoethane	BRL	5.3		ug/Kg-dry	211881	1	08/25/2015 14:15	CG
1,2-Dichlorobenzene	BRL	5.3		ug/Kg-dry	211881	1	08/25/2015 14:15	CG
1,2-Dichloroethane	BRL	5.3		ug/Kg-dry	211881	1	08/25/2015 14:15	CG
1,2-Dichloropropane	BRL	5.3		ug/Kg-dry	211881	1	08/25/2015 14:15	CG
1,3-Dichlorobenzene	BRL	5.3		ug/Kg-dry	211881	1	08/25/2015 14:15	CG
1,4-Dichlorobenzene	BRL	5.3		ug/Kg-dry	211881	1	08/25/2015 14:15	CG
2-Butanone	77	53		ug/Kg-dry	211881	1	08/25/2015 14:15	CG
2-Hexanone	BRL	11		ug/Kg-dry	211881	1	08/25/2015 14:15	CG
4-Methyl-2-pentanone	BRL	11		ug/Kg-dry	211881	1	08/25/2015 14:15	CG
Acetone	560	110	E	ug/Kg-dry	211881	1	08/25/2015 14:15	CG
Benzene	BRL	5.3		ug/Kg-dry	211881	1	08/25/2015 14:15	CG
Bromodichloromethane	BRL	5.3		ug/Kg-dry	211881	1	08/25/2015 14:15	CG
Bromoform	BRL	5.3		ug/Kg-dry	211881	1	08/25/2015 14:15	CG
Bromomethane	BRL	5.3		ug/Kg-dry	211881	1	08/25/2015 14:15	CG
Carbon disulfide	BRL	11		ug/Kg-dry	211881	1	08/25/2015 14:15	CG
Carbon tetrachloride	BRL	5.3		ug/Kg-dry	211881	1	08/25/2015 14:15	CG
Chlorobenzene	BRL	5.3		ug/Kg-dry	211881	1	08/25/2015 14:15	CG
Chloroethane	BRL	11		ug/Kg-dry	211881	1	08/25/2015 14:15	CG
Chloroform	BRL	5.3		ug/Kg-dry	211881	1	08/25/2015 14:15	CG
Chloromethane	BRL	11		ug/Kg-dry	211881	1	08/25/2015 14:15	CG
cis-1,2-Dichloroethene	BRL	5.3		ug/Kg-dry	211881	1	08/25/2015 14:15	CG
cis-1,3-Dichloropropene	BRL	5.3		ug/Kg-dry	211881	1	08/25/2015 14:15	CG
Cyclohexane	BRL	5.3		ug/Kg-dry	211881	1	08/25/2015 14:15	CG
Dibromochloromethane	BRL	5.3		ug/Kg-dry	211881	1	08/25/2015 14:15	CG
Dichlorodifluoromethane	BRL	11		ug/Kg-dry	211881	1	08/25/2015 14:15	CG
Ethylbenzene	BRL	5.3		ug/Kg-dry	211881	1	08/25/2015 14:15	CG
Freon-113	BRL	11		ug/Kg-dry	211881	1	08/25/2015 14:15	CG
Isopropylbenzene	BRL	5.3		ug/Kg-dry	211881	1	08/25/2015 14:15	CG
m,p-Xylene	BRL	5.3		ug/Kg-dry	211881	1	08/25/2015 14:15	CG
Methyl acetate	BRL	5.3		ug/Kg-dry	211881	1	08/25/2015 14:15	CG
Methyl tert-butyl ether	BRL	5.3		ug/Kg-dry	211881	1	08/25/2015 14:15	CG
Methylcyclohexane	BRL	5.3		ug/Kg-dry	211881	1	08/25/2015 14:15	CG
Methylene chloride	BRL	21		ug/Kg-dry	211881	1	08/25/2015 14:15	CG

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 27-Aug-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15231-SD-6
<b>Lab Order:</b> 1508H20	<b>Tag Number:</b>
<b>Project Name:</b> PPC	<b>Collection Date:</b> 8/19/2015 9:27:00 AM
<b>Lab ID:</b> 1508H20-030A	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
o-Xylene	BRL	5.3		ug/Kg-dry	211881	1	08/25/2015 14:15	CG
Styrene	BRL	5.3		ug/Kg-dry	211881	1	08/25/2015 14:15	CG
Tetrachloroethene	BRL	5.3		ug/Kg-dry	211881	1	08/25/2015 14:15	CG
Toluene	34	5.3		ug/Kg-dry	211881	1	08/25/2015 14:15	CG
trans-1,2-Dichloroethene	BRL	5.3		ug/Kg-dry	211881	1	08/25/2015 14:15	CG
trans-1,3-Dichloropropene	BRL	5.3		ug/Kg-dry	211881	1	08/25/2015 14:15	CG
Trichloroethene	BRL	5.3		ug/Kg-dry	211881	1	08/25/2015 14:15	CG
Trichlorofluoromethane	BRL	5.3		ug/Kg-dry	211881	1	08/25/2015 14:15	CG
Vinyl chloride	BRL	11		ug/Kg-dry	211881	1	08/25/2015 14:15	CG
Surr: 4-Bromofluorobenzene	64.5	70-128	S	%REC	211881	1	08/25/2015 14:15	CG
Surr: Dibromofluoromethane	99.5	78.2-128		%REC	211881	1	08/25/2015 14:15	CG
Surr: Toluene-d8	80.8	76.5-116		%REC	211881	1	08/25/2015 14:15	CG

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 27-Aug-15

<b>Client:</b>	Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b>	15231-SD-6
<b>Lab Order</b>	1508H20	<b>Tag Number:</b>	
<b>Project Name:</b>	PPC	<b>Collection Date:</b>	8/19/2015 9:27:00 AM
<b>Lab ID:</b>	1508H20-030B	<b>Matrix:</b>	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	28.5	0		wt%	R298772	1	08/26/2015 11:00	PF

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 27-Aug-15

<b>Client:</b>	Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b>	15231-SD-7
<b>Lab Order</b>	1508H20	<b>Tag Number:</b>	
<b>Project Name:</b>	PPC	<b>Collection Date:</b>	8/19/2015 8:57:00 AM
<b>Lab ID:</b>	1508H20-031A	<b>Matrix:</b>	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	4.9		ug/Kg-dry	211881	1	08/24/2015 17:05	CG
1,1,2,2-Tetrachloroethane	BRL	4.9		ug/Kg-dry	211881	1	08/24/2015 17:05	CG
1,1,2-Trichloroethane	BRL	4.9		ug/Kg-dry	211881	1	08/24/2015 17:05	CG
1,1-Dichloroethane	BRL	4.9		ug/Kg-dry	211881	1	08/24/2015 17:05	CG
1,1-Dichloroethene	BRL	4.9		ug/Kg-dry	211881	1	08/24/2015 17:05	CG
1,2,4-Trichlorobenzene	BRL	4.9		ug/Kg-dry	211881	1	08/24/2015 17:05	CG
1,2-Dibromo-3-chloropropane	BRL	4.9		ug/Kg-dry	211881	1	08/24/2015 17:05	CG
1,2-Dibromoethane	BRL	4.9		ug/Kg-dry	211881	1	08/24/2015 17:05	CG
1,2-Dichlorobenzene	BRL	4.9		ug/Kg-dry	211881	1	08/24/2015 17:05	CG
1,2-Dichloroethane	BRL	4.9		ug/Kg-dry	211881	1	08/24/2015 17:05	CG
1,2-Dichloropropane	BRL	4.9		ug/Kg-dry	211881	1	08/24/2015 17:05	CG
1,3-Dichlorobenzene	BRL	4.9		ug/Kg-dry	211881	1	08/24/2015 17:05	CG
1,4-Dichlorobenzene	BRL	4.9		ug/Kg-dry	211881	1	08/24/2015 17:05	CG
2-Butanone	BRL	49		ug/Kg-dry	211881	1	08/24/2015 17:05	CG
2-Hexanone	BRL	9.9		ug/Kg-dry	211881	1	08/24/2015 17:05	CG
4-Methyl-2-pentanone	BRL	9.9		ug/Kg-dry	211881	1	08/24/2015 17:05	CG
Acetone	220	99		ug/Kg-dry	211881	1	08/24/2015 17:05	CG
Benzene	BRL	4.9		ug/Kg-dry	211881	1	08/24/2015 17:05	CG
Bromodichloromethane	BRL	4.9		ug/Kg-dry	211881	1	08/24/2015 17:05	CG
Bromoform	BRL	4.9		ug/Kg-dry	211881	1	08/24/2015 17:05	CG
Bromomethane	BRL	4.9		ug/Kg-dry	211881	1	08/24/2015 17:05	CG
Carbon disulfide	BRL	9.9		ug/Kg-dry	211881	1	08/24/2015 17:05	CG
Carbon tetrachloride	BRL	4.9		ug/Kg-dry	211881	1	08/24/2015 17:05	CG
Chlorobenzene	BRL	4.9		ug/Kg-dry	211881	1	08/24/2015 17:05	CG
Chloroethane	BRL	9.9		ug/Kg-dry	211881	1	08/24/2015 17:05	CG
Chloroform	BRL	4.9		ug/Kg-dry	211881	1	08/24/2015 17:05	CG
Chloromethane	BRL	9.9		ug/Kg-dry	211881	1	08/24/2015 17:05	CG
cis-1,2-Dichloroethene	BRL	4.9		ug/Kg-dry	211881	1	08/24/2015 17:05	CG
cis-1,3-Dichloropropene	BRL	4.9		ug/Kg-dry	211881	1	08/24/2015 17:05	CG
Cyclohexane	BRL	4.9		ug/Kg-dry	211881	1	08/24/2015 17:05	CG
Dibromochloromethane	BRL	4.9		ug/Kg-dry	211881	1	08/24/2015 17:05	CG
Dichlorodifluoromethane	BRL	9.9		ug/Kg-dry	211881	1	08/24/2015 17:05	CG
Ethylbenzene	BRL	4.9		ug/Kg-dry	211881	1	08/24/2015 17:05	CG
Freon-113	BRL	9.9		ug/Kg-dry	211881	1	08/24/2015 17:05	CG
Isopropylbenzene	BRL	4.9		ug/Kg-dry	211881	1	08/24/2015 17:05	CG
m,p-Xylene	BRL	4.9		ug/Kg-dry	211881	1	08/24/2015 17:05	CG
Methyl acetate	11	4.9		ug/Kg-dry	211881	1	08/24/2015 17:05	CG
Methyl tert-butyl ether	BRL	4.9		ug/Kg-dry	211881	1	08/24/2015 17:05	CG
Methylcyclohexane	BRL	4.9		ug/Kg-dry	211881	1	08/24/2015 17:05	CG
Methylene chloride	BRL	20		ug/Kg-dry	211881	1	08/24/2015 17:05	CG

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit



**Analytical Environmental Services, Inc**

**Date:** 27-Aug-15

<b>Client:</b>	Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b>	15231-SD-7
<b>Lab Order</b>	1508H20	<b>Tag Number:</b>	
<b>Project Name:</b>	PPC	<b>Collection Date:</b>	8/19/2015 8:57:00 AM
<b>Lab ID:</b>	1508H20-031A	<b>Matrix:</b>	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
o-Xylene	BRL	4.9		ug/Kg-dry	211881	1	08/24/2015 17:05	CG
Styrene	BRL	4.9		ug/Kg-dry	211881	1	08/24/2015 17:05	CG
Tetrachloroethene	BRL	4.9		ug/Kg-dry	211881	1	08/24/2015 17:05	CG
Toluene	BRL	4.9		ug/Kg-dry	211881	1	08/24/2015 17:05	CG
trans-1,2-Dichloroethene	BRL	4.9		ug/Kg-dry	211881	1	08/24/2015 17:05	CG
trans-1,3-Dichloropropene	BRL	4.9		ug/Kg-dry	211881	1	08/24/2015 17:05	CG
Trichloroethene	BRL	4.9		ug/Kg-dry	211881	1	08/24/2015 17:05	CG
Trichlorofluoromethane	BRL	4.9		ug/Kg-dry	211881	1	08/24/2015 17:05	CG
Vinyl chloride	BRL	9.9		ug/Kg-dry	211881	1	08/24/2015 17:05	CG
Surr: 4-Bromofluorobenzene	74.8	70-128		%REC	211881	1	08/24/2015 17:05	CG
Surr: Dibromofluoromethane	99.3	78.2-128		%REC	211881	1	08/24/2015 17:05	CG
Surr: Toluene-d8	96.1	76.5-116		%REC	211881	1	08/24/2015 17:05	CG

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 27-Aug-15

<b>Client:</b>	Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b>	15231-SD-7
<b>Lab Order</b>	1508H20	<b>Tag Number:</b>	
<b>Project Name:</b>	PPC	<b>Collection Date:</b>	8/19/2015 8:57:00 AM
<b>Lab ID:</b>	1508H20-031B	<b>Matrix:</b>	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	22.9	0		wt%	R298772	1	08/26/2015 11:00	PF

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 27-Aug-15

<b>Client:</b>	Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b>	15231-SD-8
<b>Lab Order</b>	1508H20	<b>Tag Number:</b>	
<b>Project Name:</b>	PPC	<b>Collection Date:</b>	8/19/2015 8:41:00 AM
<b>Lab ID:</b>	1508H20-032A	<b>Matrix:</b>	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	4.0		ug/Kg-dry	211881	1	08/24/2015 17:29	CG
1,1,2,2-Tetrachloroethane	BRL	4.0		ug/Kg-dry	211881	1	08/24/2015 17:29	CG
1,1,2-Trichloroethane	BRL	4.0		ug/Kg-dry	211881	1	08/24/2015 17:29	CG
1,1-Dichloroethane	BRL	4.0		ug/Kg-dry	211881	1	08/24/2015 17:29	CG
1,1-Dichloroethene	BRL	4.0		ug/Kg-dry	211881	1	08/24/2015 17:29	CG
1,2,4-Trichlorobenzene	BRL	4.0		ug/Kg-dry	211881	1	08/24/2015 17:29	CG
1,2-Dibromo-3-chloropropane	BRL	4.0		ug/Kg-dry	211881	1	08/24/2015 17:29	CG
1,2-Dibromoethane	BRL	4.0		ug/Kg-dry	211881	1	08/24/2015 17:29	CG
1,2-Dichlorobenzene	BRL	4.0		ug/Kg-dry	211881	1	08/24/2015 17:29	CG
1,2-Dichloroethane	BRL	4.0		ug/Kg-dry	211881	1	08/24/2015 17:29	CG
1,2-Dichloropropane	BRL	4.0		ug/Kg-dry	211881	1	08/24/2015 17:29	CG
1,3-Dichlorobenzene	BRL	4.0		ug/Kg-dry	211881	1	08/24/2015 17:29	CG
1,4-Dichlorobenzene	BRL	4.0		ug/Kg-dry	211881	1	08/24/2015 17:29	CG
2-Butanone	BRL	40		ug/Kg-dry	211881	1	08/24/2015 17:29	CG
2-Hexanone	BRL	8.0		ug/Kg-dry	211881	1	08/24/2015 17:29	CG
4-Methyl-2-pentanone	BRL	8.0		ug/Kg-dry	211881	1	08/24/2015 17:29	CG
Acetone	110	80		ug/Kg-dry	211881	1	08/24/2015 17:29	CG
Benzene	BRL	4.0		ug/Kg-dry	211881	1	08/24/2015 17:29	CG
Bromodichloromethane	BRL	4.0		ug/Kg-dry	211881	1	08/24/2015 17:29	CG
Bromoform	BRL	4.0		ug/Kg-dry	211881	1	08/24/2015 17:29	CG
Bromomethane	BRL	4.0		ug/Kg-dry	211881	1	08/24/2015 17:29	CG
Carbon disulfide	BRL	8.0		ug/Kg-dry	211881	1	08/24/2015 17:29	CG
Carbon tetrachloride	BRL	4.0		ug/Kg-dry	211881	1	08/24/2015 17:29	CG
Chlorobenzene	BRL	4.0		ug/Kg-dry	211881	1	08/24/2015 17:29	CG
Chloroethane	BRL	8.0		ug/Kg-dry	211881	1	08/24/2015 17:29	CG
Chloroform	BRL	4.0		ug/Kg-dry	211881	1	08/24/2015 17:29	CG
Chloromethane	BRL	8.0		ug/Kg-dry	211881	1	08/24/2015 17:29	CG
cis-1,2-Dichloroethene	BRL	4.0		ug/Kg-dry	211881	1	08/24/2015 17:29	CG
cis-1,3-Dichloropropene	BRL	4.0		ug/Kg-dry	211881	1	08/24/2015 17:29	CG
Cyclohexane	BRL	4.0		ug/Kg-dry	211881	1	08/24/2015 17:29	CG
Dibromochloromethane	BRL	4.0		ug/Kg-dry	211881	1	08/24/2015 17:29	CG
Dichlorodifluoromethane	BRL	8.0		ug/Kg-dry	211881	1	08/24/2015 17:29	CG
Ethylbenzene	BRL	4.0		ug/Kg-dry	211881	1	08/24/2015 17:29	CG
Freon-113	BRL	8.0		ug/Kg-dry	211881	1	08/24/2015 17:29	CG
Isopropylbenzene	BRL	4.0		ug/Kg-dry	211881	1	08/24/2015 17:29	CG
m,p-Xylene	BRL	4.0		ug/Kg-dry	211881	1	08/24/2015 17:29	CG
Methyl acetate	8.2	4.0		ug/Kg-dry	211881	1	08/24/2015 17:29	CG
Methyl tert-butyl ether	BRL	4.0		ug/Kg-dry	211881	1	08/24/2015 17:29	CG
Methylcyclohexane	BRL	4.0		ug/Kg-dry	211881	1	08/24/2015 17:29	CG
Methylene chloride	BRL	16		ug/Kg-dry	211881	1	08/24/2015 17:29	CG

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 27-Aug-15

<b>Client:</b>	Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b>	15231-SD-8
<b>Lab Order</b>	1508H20	<b>Tag Number:</b>	
<b>Project Name:</b>	PPC	<b>Collection Date:</b>	8/19/2015 8:41:00 AM
<b>Lab ID:</b>	1508H20-032A	<b>Matrix:</b>	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
o-Xylene	BRL	4.0		ug/Kg-dry	211881	1	08/24/2015 17:29	CG
Styrene	BRL	4.0		ug/Kg-dry	211881	1	08/24/2015 17:29	CG
Tetrachloroethene	BRL	4.0		ug/Kg-dry	211881	1	08/24/2015 17:29	CG
Toluene	BRL	4.0		ug/Kg-dry	211881	1	08/24/2015 17:29	CG
trans-1,2-Dichloroethene	BRL	4.0		ug/Kg-dry	211881	1	08/24/2015 17:29	CG
trans-1,3-Dichloropropene	BRL	4.0		ug/Kg-dry	211881	1	08/24/2015 17:29	CG
Trichloroethene	BRL	4.0		ug/Kg-dry	211881	1	08/24/2015 17:29	CG
Trichlorofluoromethane	BRL	4.0		ug/Kg-dry	211881	1	08/24/2015 17:29	CG
Vinyl chloride	BRL	8.0		ug/Kg-dry	211881	1	08/24/2015 17:29	CG
Surr: 4-Bromofluorobenzene	72.3	70-128		%REC	211881	1	08/24/2015 17:29	CG
Surr: Dibromofluoromethane	96.5	78.2-128		%REC	211881	1	08/24/2015 17:29	CG
Surr: Toluene-d8	94.6	76.5-116		%REC	211881	1	08/24/2015 17:29	CG

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 27-Aug-15

<b>Client:</b>	Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b>	15231-SD-8
<b>Lab Order</b>	1508H20	<b>Tag Number:</b>	
<b>Project Name:</b>	PPC	<b>Collection Date:</b>	8/19/2015 8:41:00 AM
<b>Lab ID:</b>	1508H20-032B	<b>Matrix:</b>	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	32.7	0		wt%	R298772	1	08/26/2015 11:00	PF

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 27-Aug-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15231-SD-9
<b>Lab Order:</b> 1508H20	<b>Tag Number:</b>
<b>Project Name:</b> PPC	<b>Collection Date:</b> 8/19/2015 8:32:00 AM
<b>Lab ID:</b> 1508H20-033A	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
1,1,1-Trichloroethane	BRL	6.7		ug/Kg-dry	211881	1	08/25/2015 13:50	CG
1,1,2,2-Tetrachloroethane	BRL	6.7		ug/Kg-dry	211881	1	08/25/2015 13:50	CG
1,1,2-Trichloroethane	BRL	6.7		ug/Kg-dry	211881	1	08/25/2015 13:50	CG
1,1-Dichloroethane	BRL	6.7		ug/Kg-dry	211881	1	08/25/2015 13:50	CG
1,1-Dichloroethene	BRL	6.7		ug/Kg-dry	211881	1	08/25/2015 13:50	CG
1,2,4-Trichlorobenzene	BRL	6.7		ug/Kg-dry	211881	1	08/25/2015 13:50	CG
1,2-Dibromo-3-chloropropane	BRL	6.7		ug/Kg-dry	211881	1	08/25/2015 13:50	CG
1,2-Dibromoethane	BRL	6.7		ug/Kg-dry	211881	1	08/25/2015 13:50	CG
1,2-Dichlorobenzene	BRL	6.7		ug/Kg-dry	211881	1	08/25/2015 13:50	CG
1,2-Dichloroethane	BRL	6.7		ug/Kg-dry	211881	1	08/25/2015 13:50	CG
1,2-Dichloropropane	BRL	6.7		ug/Kg-dry	211881	1	08/25/2015 13:50	CG
1,3-Dichlorobenzene	BRL	6.7		ug/Kg-dry	211881	1	08/25/2015 13:50	CG
1,4-Dichlorobenzene	BRL	6.7		ug/Kg-dry	211881	1	08/25/2015 13:50	CG
2-Butanone	BRL	67		ug/Kg-dry	211881	1	08/25/2015 13:50	CG
2-Hexanone	BRL	13		ug/Kg-dry	211881	1	08/25/2015 13:50	CG
4-Methyl-2-pentanone	BRL	13		ug/Kg-dry	211881	1	08/25/2015 13:50	CG
Acetone	360	130		ug/Kg-dry	211881	1	08/25/2015 13:50	CG
Benzene	BRL	6.7		ug/Kg-dry	211881	1	08/25/2015 13:50	CG
Bromodichloromethane	BRL	6.7		ug/Kg-dry	211881	1	08/25/2015 13:50	CG
Bromoform	BRL	6.7		ug/Kg-dry	211881	1	08/25/2015 13:50	CG
Bromomethane	BRL	6.7		ug/Kg-dry	211881	1	08/25/2015 13:50	CG
Carbon disulfide	BRL	13		ug/Kg-dry	211881	1	08/25/2015 13:50	CG
Carbon tetrachloride	BRL	6.7		ug/Kg-dry	211881	1	08/25/2015 13:50	CG
Chlorobenzene	BRL	6.7		ug/Kg-dry	211881	1	08/25/2015 13:50	CG
Chloroethane	BRL	13		ug/Kg-dry	211881	1	08/25/2015 13:50	CG
Chloroform	BRL	6.7		ug/Kg-dry	211881	1	08/25/2015 13:50	CG
Chloromethane	BRL	13		ug/Kg-dry	211881	1	08/25/2015 13:50	CG
cis-1,2-Dichloroethene	BRL	6.7		ug/Kg-dry	211881	1	08/25/2015 13:50	CG
cis-1,3-Dichloropropene	BRL	6.7		ug/Kg-dry	211881	1	08/25/2015 13:50	CG
Cyclohexane	BRL	6.7		ug/Kg-dry	211881	1	08/25/2015 13:50	CG
Dibromochloromethane	BRL	6.7		ug/Kg-dry	211881	1	08/25/2015 13:50	CG
Dichlorodifluoromethane	BRL	13		ug/Kg-dry	211881	1	08/25/2015 13:50	CG
Ethylbenzene	BRL	6.7		ug/Kg-dry	211881	1	08/25/2015 13:50	CG
Freon-113	BRL	13		ug/Kg-dry	211881	1	08/25/2015 13:50	CG
Isopropylbenzene	BRL	6.7		ug/Kg-dry	211881	1	08/25/2015 13:50	CG
m,p-Xylene	BRL	6.7		ug/Kg-dry	211881	1	08/25/2015 13:50	CG
Methyl acetate	BRL	6.7		ug/Kg-dry	211881	1	08/25/2015 13:50	CG
Methyl tert-butyl ether	BRL	6.7		ug/Kg-dry	211881	1	08/25/2015 13:50	CG
Methylcyclohexane	BRL	6.7		ug/Kg-dry	211881	1	08/25/2015 13:50	CG
Methylene chloride	BRL	27		ug/Kg-dry	211881	1	08/25/2015 13:50	CG

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 27-Aug-15

<b>Client:</b> Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b> 15231-SD-9
<b>Lab Order:</b> 1508H20	<b>Tag Number:</b>
<b>Project Name:</b> PPC	<b>Collection Date:</b> 8/19/2015 8:32:00 AM
<b>Lab ID:</b> 1508H20-033A	<b>Matrix:</b> Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>TCL VOLATILE ORGANICS SW8260B (SW5035)</b>								
o-Xylene	BRL	6.7		ug/Kg-dry	211881	1	08/25/2015 13:50	CG
Styrene	BRL	6.7		ug/Kg-dry	211881	1	08/25/2015 13:50	CG
Tetrachloroethene	BRL	6.7		ug/Kg-dry	211881	1	08/25/2015 13:50	CG
Toluene	BRL	6.7		ug/Kg-dry	211881	1	08/25/2015 13:50	CG
trans-1,2-Dichloroethene	BRL	6.7		ug/Kg-dry	211881	1	08/25/2015 13:50	CG
trans-1,3-Dichloropropene	BRL	6.7		ug/Kg-dry	211881	1	08/25/2015 13:50	CG
Trichloroethene	BRL	6.7		ug/Kg-dry	211881	1	08/25/2015 13:50	CG
Trichlorofluoromethane	BRL	6.7		ug/Kg-dry	211881	1	08/25/2015 13:50	CG
Vinyl chloride	BRL	13		ug/Kg-dry	211881	1	08/25/2015 13:50	CG
Surr: 4-Bromofluorobenzene	67.6	70-128	S	%REC	211881	1	08/25/2015 13:50	CG
Surr: Dibromofluoromethane	95.2	78.2-128		%REC	211881	1	08/25/2015 13:50	CG
Surr: Toluene-d8	89.9	76.5-116		%REC	211881	1	08/25/2015 13:50	CG

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 27-Aug-15

<b>Client:</b>	Environmental Planning Specialists, Inc.	<b>Client Sample ID:</b>	15231-SD-9
<b>Lab Order</b>	1508H20	<b>Tag Number:</b>	
<b>Project Name:</b>	PPC	<b>Collection Date:</b>	8/19/2015 8:32:00 AM
<b>Lab ID:</b>	1508H20-033B	<b>Matrix:</b>	Soil

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>PERCENT MOISTURE D2216</b>								
Percent Moisture	26.7	0		wt%	R298772	1	08/26/2015 11:00	PF

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit



Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client EPS

Work Order Number 1500420

Checklist completed by Miriam Duran 8/20/15  
Signature Date

Carrier name: FedEx  UPS  Courier  Client  US Mail  Other

Shipping container/cooler in good condition? Yes  No  Not Present

Custody seals intact on shipping container/cooler? Yes  No  Not Present

Custody seals intact on sample bottles? Yes  No  Not Present

Container/Temp Blank temperature in compliance? (0°≤6°C)\* Yes  No

Cooler #1 3.1' Cooler #2 \_\_\_\_\_ Cooler #3 \_\_\_\_\_ Cooler #4 \_\_\_\_\_ Cooler#5 \_\_\_\_\_ Cooler #6 \_\_\_\_\_

Chain of custody present? Yes  No

Chain of custody signed when relinquished and received? Yes  No

Chain of custody agrees with sample labels? Yes  No

Samples in proper container/bottle? Yes  No

Sample containers intact? Yes  No

Sufficient sample volume for indicated test? Yes  No

All samples received within holding time? Yes  No

Was TAT marked on the COC? Yes  No

Proceed with Standard TAT as per project history? Yes  No  Not Applicable

Water - VOA vials have zero headspace? No VOA vials submitted  Yes  No

Water - pH acceptable upon receipt? Yes  No  Not Applicable

Adjusted? \_\_\_\_\_ Checked by \_\_\_\_\_

Sample Condition: Good  Other(Explain) \_\_\_\_\_

(For diffusive samples or AIHA lead) Is a known blank included? Yes  No

See Case Narrative for resolution of the Non-Conformance.

\* Samples do not have to comply with the given range for certain parameters.

**Client:** Environmental Planning Specialists, Inc.  
**Project Name:** PPC  
**Workorder:** 1508H20

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 211881**

Sample ID: <b>MB-211881</b>	Client ID:	Units: <b>ug/Kg</b>	Prep Date: <b>08/22/2015</b>	Run No: <b>298558</b>							
Sample Type: <b>MBLK</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>211881</b>	Analysis Date: <b>08/22/2015</b>	Seq No: <b>6373695</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	100									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	10									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Client:** Environmental Planning Specialists, Inc.  
**Project Name:** PPC  
**Workorder:** 1508H20

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 211881**

Sample ID: <b>MB-211881</b>	Client ID:	Units: <b>ug/Kg</b>	Prep Date: <b>08/22/2015</b>	Run No: <b>298558</b>							
SampleType: <b>MBLK</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>211881</b>	Analysis Date: <b>08/22/2015</b>	Seq No: <b>6373695</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	20									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	10									
Surr: 4-Bromofluorobenzene	43.05	0	50.00		86.1	70	128				
Surr: Dibromofluoromethane	49.78	0	50.00		99.6	78.2	128				
Surr: Toluene-d8	49.02	0	50.00		98.0	76.5	116				

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Client:** Environmental Planning Specialists, Inc.  
**Project Name:** PPC  
**Workorder:** 1508H20

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 211881**

Sample ID: <b>LCS-211881</b>	Client ID:	Units: <b>ug/Kg</b>	Prep Date: <b>08/22/2015</b>	Run No: <b>298558</b>							
SampleType: <b>LCS</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>211881</b>	Analysis Date: <b>08/22/2015</b>	Seq No: <b>6373692</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	56.42	5.0	50.00		113	69.9	145				
Benzene	52.12	5.0	50.00		104	72.3	130				
Chlorobenzene	51.59	5.0	50.00		103	69	130				
Toluene	54.40	5.0	50.00		109	71.1	130				
Trichloroethene	52.98	5.0	50.00		106	71.7	136				
Surr: 4-Bromofluorobenzene	44.75	0	50.00		89.5	70	128				
Surr: Dibromofluoromethane	47.86	0	50.00		95.7	78.2	128				
Surr: Toluene-d8	49.72	0	50.00		99.4	76.5	116				

Sample ID: <b>1508H20-017AMS</b>	Client ID: <b>15229-SB-19-2</b>	Units: <b>ug/Kg-dry</b>	Prep Date: <b>08/22/2015</b>	Run No: <b>298558</b>							
SampleType: <b>MS</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>211881</b>	Analysis Date: <b>08/22/2015</b>	Seq No: <b>6373693</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	70.09	6.2	61.89		113	56.6	151				
Benzene	63.11	6.2	61.89		102	70.4	130				
Chlorobenzene	59.33	6.2	61.89		95.9	67.5	132				
Toluene	63.88	6.2	61.89		103	70.4	130				
Trichloroethene	61.55	6.2	61.89		99.4	70.1	137				
Surr: 4-Bromofluorobenzene	54.36	0	61.89		87.8	70	128				
Surr: Dibromofluoromethane	59.93	0	61.89		96.8	78.2	128				
Surr: Toluene-d8	61.19	0	61.89		98.9	76.5	116				

Sample ID: <b>1508H20-017AMSD</b>	Client ID: <b>15229-SB-19-2</b>	Units: <b>ug/Kg-dry</b>	Prep Date: <b>08/22/2015</b>	Run No: <b>298558</b>							
SampleType: <b>MSD</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>211881</b>	Analysis Date: <b>08/22/2015</b>	Seq No: <b>6373694</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	72.61	6.2	61.89		117	56.6	151	70.09	3.54	20.4	
Benzene	65.34	6.2	61.89		106	70.4	130	63.11	3.47	16.9	

**Qualifiers:** > Greater than Result value < Less than Result value B Analyte detected in the associated method blank  
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded  
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix  
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

**Client:** Environmental Planning Specialists, Inc.  
**Project Name:** PPC  
**Workorder:** 1508H20

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 211881**

Sample ID: **1508H20-017AMSD** Client ID: **15229-SB-19-2** Units: **ug/Kg-dry** Prep Date: **08/22/2015** Run No: **298558**  
 SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **211881** Analysis Date: **08/22/2015** Seq No: **6373694**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	62.76	6.2	61.89		101	67.5	132	59.33	5.62	14.6	
Toluene	64.79	6.2	61.89		105	70.4	130	63.88	1.42	16.6	
Trichloroethene	64.74	6.2	61.89		105	70.1	137	61.55	5.06	17	
Surr: 4-Bromofluorobenzene	54.91	0	61.89		88.7	70	128	54.36	0	0	
Surr: Dibromofluoromethane	59.75	0	61.89		96.5	78.2	128	59.93	0	0	
Surr: Toluene-d8	61.06	0	61.89		98.7	76.5	116	61.19	0	0	

**Qualifiers:** > Greater than Result value < Less than Result value B Analyte detected in the associated method blank  
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded  
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix  
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

**Client:** Environmental Planning Specialists, Inc.  
**Project Name:** PPC  
**Workorder:** 1508H20

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 211904**

Sample ID: <b>MB-211904</b>	Client ID:	Units: <b>ug/Kg</b>	Prep Date: <b>08/24/2015</b>	Run No: <b>298538</b>
SampleType: <b>MBLK</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>211904</b>	Analysis Date: <b>08/24/2015</b>	Seq No: <b>6373296</b>

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	BRL	250									
1,1,2,2-Tetrachloroethane	BRL	250									
1,1,2-Trichloroethane	BRL	250									
1,1-Dichloroethane	BRL	250									
1,1-Dichloroethene	BRL	250									
1,2,4-Trichlorobenzene	BRL	250									
1,2-Dibromo-3-chloropropane	BRL	250									
1,2-Dibromoethane	BRL	250									
1,2-Dichlorobenzene	BRL	250									
1,2-Dichloroethane	BRL	250									
1,2-Dichloropropane	BRL	250									
1,3-Dichlorobenzene	BRL	250									
1,4-Dichlorobenzene	BRL	250									
2-Butanone	BRL	2500									
2-Hexanone	BRL	500									
4-Methyl-2-pentanone	BRL	500									
Acetone	BRL	5000									
Benzene	BRL	250									
Bromodichloromethane	BRL	250									
Bromoform	BRL	250									
Bromomethane	BRL	250									
Carbon disulfide	BRL	500									
Carbon tetrachloride	BRL	250									
Chlorobenzene	BRL	250									
Chloroethane	BRL	500									
Chloroform	BRL	250									
Chloromethane	BRL	500									

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Client:** Environmental Planning Specialists, Inc.  
**Project Name:** PPC  
**Workorder:** 1508H20

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 211904**

Sample ID: <b>MB-211904</b>	Client ID:	Units: <b>ug/Kg</b>	Prep Date: <b>08/24/2015</b>	Run No: <b>298538</b>							
SampleType: <b>MBLK</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>211904</b>	Analysis Date: <b>08/24/2015</b>	Seq No: <b>6373296</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

cis-1,2-Dichloroethene	BRL	250									
cis-1,3-Dichloropropene	BRL	250									
Cyclohexane	BRL	250									
Dibromochloromethane	BRL	250									
Dichlorodifluoromethane	BRL	500									
Ethylbenzene	BRL	250									
Freon-113	BRL	500									
Isopropylbenzene	BRL	250									
m,p-Xylene	BRL	250									
Methyl acetate	BRL	250									
Methyl tert-butyl ether	BRL	250									
Methylcyclohexane	BRL	250									
Methylene chloride	BRL	1000									
o-Xylene	BRL	250									
Styrene	BRL	250									
Tetrachloroethene	BRL	250									
Toluene	BRL	250									
trans-1,2-Dichloroethene	BRL	250									
trans-1,3-Dichloropropene	BRL	250									
Trichloroethene	BRL	250									
Trichlorofluoromethane	BRL	250									
Vinyl chloride	BRL	500									
Surr: 4-Bromofluorobenzene	1836	0	2500		73.4	70	128				
Surr: Dibromofluoromethane	2852	0	2500		114	78.2	128				
Surr: Toluene-d8	2670	0	2500		107	76.5	116				

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Client:** Environmental Planning Specialists, Inc.  
**Project Name:** PPC  
**Workorder:** 1508H20

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 211904**

Sample ID: <b>LCS-211904</b>	Client ID:	Units: <b>ug/Kg</b>	Prep Date: <b>08/24/2015</b>	Run No: <b>298538</b>							
SampleType: <b>LCS</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>211904</b>	Analysis Date: <b>08/24/2015</b>	Seq No: <b>6373295</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	2487	250	2500		99.5	69.9	145				
Benzene	2544	250	2500		102	72.3	130				
Chlorobenzene	2754	250	2500		110	69	130				
Toluene	2614	250	2500		105	71.1	130				
Trichloroethene	2522	250	2500		101	71.7	136				
Surr: 4-Bromofluorobenzene	1946	0	2500		77.9	70	128				
Surr: Dibromofluoromethane	2781	0	2500		111	78.2	128				
Surr: Toluene-d8	2631	0	2500		105	76.5	116				

Sample ID: <b>1508F52-001AMS</b>	Client ID:	Units: <b>ug/Kg-dry</b>	Prep Date: <b>08/24/2015</b>	Run No: <b>298538</b>							
SampleType: <b>MS</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>211904</b>	Analysis Date: <b>08/24/2015</b>	Seq No: <b>6373579</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	463800	43000	425600		109	56.6	151				
Benzene	445600	43000	425600		105	70.4	130				
Chlorobenzene	464600	43000	425600		109	67.5	132				
Toluene	464500	43000	425600		109	70.4	130				
Trichloroethene	435100	43000	425600		102	70.1	137				
Surr: 4-Bromofluorobenzene	307400	0	425600		72.2	70	128				
Surr: Dibromofluoromethane	472800	0	425600		111	78.2	128				
Surr: Toluene-d8	447400	0	425600		105	76.5	116				

Sample ID: <b>1508F52-001AMSD</b>	Client ID:	Units: <b>ug/Kg-dry</b>	Prep Date: <b>08/24/2015</b>	Run No: <b>298538</b>							
SampleType: <b>MSD</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>211904</b>	Analysis Date: <b>08/24/2015</b>	Seq No: <b>6373580</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	480100	43000	425600		113	56.6	151	463800	3.44	20.4	
Benzene	447100	43000	425600		105	70.4	130	445600	0.343	16.9	

**Qualifiers:**

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		



Client: Environmental Planning Specialists, Inc.  
 Project Name: PPC  
 Workorder: 1508H20

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 211904

Sample ID: <b>1508F52-001AMSD</b>	Client ID:	Units: <b>ug/Kg-dry</b>	Prep Date: <b>08/24/2015</b>	Run No: <b>298538</b>							
SampleType: <b>MSD</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>211904</b>	Analysis Date: <b>08/24/2015</b>	Seq No: <b>6373580</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlorobenzene	464800	43000	425600		109	67.5	132	464600	0.037	14.6	
Toluene	474700	43000	425600		112	70.4	130	464500	2.18	16.6	
Trichloroethene	447100	43000	425600		105	70.1	137	435100	2.70	17	
Surr: 4-Bromofluorobenzene	314900	0	425600		74.0	70	128	307400	0	0	
Surr: Dibromofluoromethane	460600	0	425600		108	78.2	128	472800	0	0	
Surr: Toluene-d8	443300	0	425600		104	76.5	116	447400	0	0	

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Client:** Environmental Planning Specialists, Inc.  
**Project Name:** PPC  
**Workorder:** 1508H20

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 211946**

Sample ID: <b>MB-211946</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>08/24/2015</b>	Run No: <b>298588</b>							
SampleType: <b>MBLK</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>211946</b>	Analysis Date: <b>08/24/2015</b>	Seq No: <b>6376332</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Client:** Environmental Planning Specialists, Inc.  
**Project Name:** PPC  
**Workorder:** 1508H20

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 211946**

Sample ID: <b>MB-211946</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>08/24/2015</b>	Run No: <b>298588</b>							
SampleType: <b>MBLK</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>211946</b>	Analysis Date: <b>08/24/2015</b>	Seq No: <b>6376332</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	44.83	0	50.00		89.7	70.6	123				
Surr: Dibromofluoromethane	47.99	0	50.00		96.0	78.7	124				
Surr: Toluene-d8	43.89	0	50.00		87.8	81.3	120				

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

**Client:** Environmental Planning Specialists, Inc.  
**Project Name:** PPC  
**Workorder:** 1508H20

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 211946**

Sample ID: <b>LCS-211946</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>08/24/2015</b>	Run No: <b>298588</b>							
SampleType: <b>LCS</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>211946</b>	Analysis Date: <b>08/24/2015</b>	Seq No: <b>6376331</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	42.90	5.0	50.00		85.8	64.2	137				
Benzene	48.48	5.0	50.00		97.0	72.8	128				
Chlorobenzene	45.06	5.0	50.00		90.1	72.3	126				
Toluene	48.99	5.0	50.00		98.0	74.9	127				
Trichloroethene	49.12	5.0	50.00		98.2	70.5	134				
Surr: 4-Bromofluorobenzene	45.89	0	50.00		91.8	70.6	123				
Surr: Dibromofluoromethane	46.59	0	50.00		93.2	78.7	124				
Surr: Toluene-d8	46.78	0	50.00		93.6	81.3	120				

Sample ID: <b>1508J05-008AMS</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>08/24/2015</b>	Run No: <b>298588</b>							
SampleType: <b>MS</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>211946</b>	Analysis Date: <b>08/24/2015</b>	Seq No: <b>6376301</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	51.37	5.0	50.00		103	60.5	156				
Benzene	51.74	5.0	50.00		103	70	135				
Chlorobenzene	49.05	5.0	50.00		98.1	70.5	132				
Toluene	53.00	5.0	50.00		106	70.5	137				
Trichloroethene	53.33	5.0	50.00		107	71.8	139				
Surr: 4-Bromofluorobenzene	41.69	0	50.00		83.4	70.6	123				
Surr: Dibromofluoromethane	47.52	0	50.00		95.0	78.7	124				
Surr: Toluene-d8	45.53	0	50.00		91.1	81.3	120				

Sample ID: <b>1508J05-008AMSD</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>08/24/2015</b>	Run No: <b>298588</b>							
SampleType: <b>MSD</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>211946</b>	Analysis Date: <b>08/24/2015</b>	Seq No: <b>6376302</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	53.89	5.0	50.00		108	60.5	156	51.37	4.79	20	
Benzene	51.14	5.0	50.00		102	70	135	51.74	1.17	20	

**Qualifiers:** > Greater than Result value < Less than Result value B Analyte detected in the associated method blank  
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded  
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix  
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Environmental Planning Specialists, Inc.  
 Project Name: PPC  
 Workorder: 1508H20

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 211946

Sample ID: <b>1508J05-008AMSD</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>08/24/2015</b>	Run No: <b>298588</b>
SampleType: <b>MSD</b>	TestCode: <b>TCL VOLATILE ORGANICS SW8260B</b>	BatchID: <b>211946</b>	Analysis Date: <b>08/24/2015</b>	Seq No: <b>6376302</b>

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	47.70	5.0	50.00		95.4	70.5	132	49.05	2.79	20	
Toluene	51.95	5.0	50.00		104	70.5	137	53.00	2.00	20	
Trichloroethene	50.46	5.0	50.00		101	71.8	139	53.33	5.53	20	
Surr: 4-Bromofluorobenzene	45.84	0	50.00		91.7	70.6	123	41.69	0	0	
Surr: Dibromofluoromethane	46.93	0	50.00		93.9	78.7	124	47.52	0	0	
Surr: Toluene-d8	45.55	0	50.00		91.1	81.3	120	45.53	0	0	

<b>Qualifiers:</b>	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

## **ALS Laboratory Data - August**



ALS Environmental  
ALS Group USA, Corp  
1565 Jefferson Rd, Building 300, Suite 360  
Rochester, NY 14623  
T: 585-288-5380  
F: 585-288-8475  
[www.alsglobal.com](http://www.alsglobal.com)

September 09, 2015

Analytical Report for Service Request No: R1506803

Mr. William Crowe  
Environmental Planning Specialists  
1050 Crown Pointe Parkway  
Suite 550  
Atlanta, GA 30338

**Laboratory Results for: PPC**

Dear Mr. Crowe:

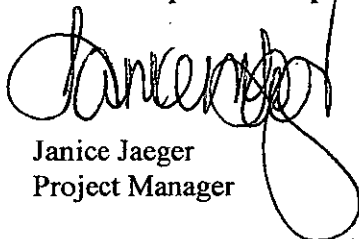
Enclosed are the results of the sample(s) submitted to our laboratory between August 18, 2015 and August 20, 2015. For your reference, these analyses have been assigned our service request number **R1506803**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7472. You may also contact me via email at [Janice.Jaeger@alsglobal.com](mailto:Janice.Jaeger@alsglobal.com).

Respectfully submitted,

**ALS Group USA Corp. dba ALS Environmental**



Janice Jaeger  
Project Manager

Page 1 of 67

ALS Environmental

Client: EPS  
Service Request No.: R1506803  
Project: PPC  
Date Received: 8/18-20/15  
Sample Matrix: Soil/Water  
Project/Case No.:

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier II data deliverables. When appropriate to the method, method blank results have been reported with each analytical test. Surrogate recoveries have been reported for all applicable organic analyses. Additional quality control analyses reported herein include: Laboratory Control Sample (LCS).

Sample Receipt

Water and soil samples were received for analysis at ALS Environmental on 8/18-20/15. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator between 1°C and 6°C upon receipt at the laboratory.

Inorganics

Soil and water samples were analyzed for a site specific list of inorganics. Please see attached report pages for method numbers.

All Laboratory Control Sample (LCS) recoveries were within limits.

Site specific QC was not requested on these samples.

All Method blanks were free of contamination.

No other analytical or QC problems were encountered.



## ALS ASP/CLP Batching Form/Login Sheet

Client Proj #: R1506803	Batch Complete: Yes	Date Revised:
Submission: R1506803	Diskette Requested: No	Date Due: 9/10/15
Client: Environmental Planning Specialist	Date: 8/24/15	Protocol: MCAWW
Client Rep: JJAEGER	Custody Seal: Present/Absent:	Shipping No.:
Project: PPC	Chain of Custody: Present/Absent:	SDG #:

CAS Job #	Client/EPA ID	Matrix	Requested Parameters	Date Sampled	Date Received	pH (Solids)	% Solids	Remarks Sample Condition
R1506803-001	15229-MW-6	Water	218.6 LL	8/17/15	8/18/15			
R1506803-002	15229-MW-2	Water	218.6 LL	8/17/15	8/18/15			
R1506803-003	15229-MW-1	Water	218.6 LL	8/17/15	8/18/15			
R1506803-004	15229-MW-3	Water	218.6 LL	8/17/15	8/18/15			
R1506803-005	15229-MW-4	Water	218.6 LL	8/17/15	8/18/15			
R1506803-006	15229-SB-25-2	Soil	ALS SOP, 7199	8/17/15	8/18/15			
R1506803-007	15229-SB-23-2	Soil	7199, ALS SOP	8/17/15	8/18/15			
R1506803-008	15229-SB-19-2	Soil	7199, ALS SOP	8/17/15	8/18/15			
R1506803-009	15229-SB-24-2	Soil	7199, ALS SOP	8/17/15	8/18/15			
R1506803-010	15229-SB-22-2	Soil	7199, ALS SOP	8/17/15	8/18/15			
R1506803-011	15229-SB-21-2	Soil	7199, ALS SOP	8/17/15	8/18/15			
R1506803-012	15229-SB-18-2	Soil	7199, ALS SOP	8/17/15	8/18/15			
R1506803-013	15229-SB-14-2	Soil	7199, ALS SOP	8/17/15	8/18/15			
R1506803-014	15229-SB-13-2	Soil	7199, ALS SOP	8/17/15	8/18/15			
R1506803-015	15229-SB-20-2	Soil	7199, ALS SOP	8/17/15	8/18/15			
R1506803-016	15230-SB-15-2	Soil	7199, ALS SOP	8/18/15	8/19/15			
R1506803-017	15230-SB-16-2	Soil	ALS SOP, 7199	8/18/15	8/19/15			
R1506803-018	15230-SB-17-2	Soil	7199, ALS SOP	8/18/15	8/19/15			
R1506803-019	15230-MW-5	Water	218.6 LL	8/18/15	8/19/15			
R1506803-020	15230-MW-12	Water	218.6 LL	8/18/15	8/19/15			
R1506803-021	15230-MW-13	Water	218.6 LL	8/18/15	8/19/15			
R1506803-022	15231-MW-8	Water	218.6 LL	8/19/15	8/20/15			
R1506803-023	15231-MW-9	Water	218.6 LL	8/19/15	8/20/15			
R1506803-024	15231-MW-7	Water	218.6 LL	8/19/15	8/20/15			
R1506803-025	15231-MW-11	Water	218.6 LL	8/19/15	8/20/15			
R1506803-026	15231-MW-10	Water	218.6 LL	8/19/15	8/20/15			
R1506803-027	15231-DUP	Water	218.6 LL	8/19/15	8/20/15			
R1506803-028	15231-SD-5	Soil	ALS SOP, 7199	8/19/15	8/20/15			
R1506803-029	15231-SD-6	Soil	ALS SOP, 7199	8/19/15	8/20/15			
R1506803-030	15231-SD-7	Soil	7199, ALS SOP	8/19/15	8/20/15			
R1506803-031	15231-SD-8	Soil	7199, ALS SOP	8/19/15	8/20/15			
R1506803-032	15231-SD-9	Soil	7199, ALS SOP	8/19/15	8/20/15			

E000000

Folder Comments:

## REPORT QUALIFIERS AND DEFINITIONS

- |   |  |
|---|--|
| <p><b>U</b> Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.</p> <p><b>J</b> Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration &gt;40% difference between two GC columns (pesticides/Aroclors).</p> <p><b>B</b> Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.</p> <p><b>E</b> Inorganics- Concentration is estimated due to the serial dilution was outside control limits.</p> <p><b>E</b> Organics- Concentration has exceeded the calibration range for that specific analysis.</p> <p><b>D</b> Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.</p> <p><b>*</b> Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.</p> <p><b>H</b> Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.</p> <p><b>#</b> Spike was diluted out.</p> | <p><b>+</b> Correlation coefficient for MSA is &lt;0.995.</p> <p><b>N</b> Inorganics- Matrix spike recovery was outside laboratory limits.</p> <p><b>N</b> Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.</p> <p><b>S</b> Concentration has been determined using Method of Standard Additions (MSA).</p> <p><b>W</b> Post-Digestion Spike recovery is outside control limits and the sample absorbance is &lt;50% of the spike absorbance.</p> <p><b>P</b> Concentration &gt;40% (25% for CLP) difference between the two GC columns.</p> <p><b>C</b> Confirmed by GC/MS</p> <p><b>Q</b> DoD reports: indicates a pesticide/Aroclor is not confirmed (<math>\geq 100\%</math> Difference between two GC columns).</p> <p><b>X</b> See Case Narrative for discussion.</p> <p><b>MRL</b> Method Reporting Limit. Also known as:</p> <p><b>LOQ</b> Limit of Quantitation (LOQ)<br/>The lowest concentration at which the method analyte may be reliably quantified under the method conditions.</p> <p><b>MDL</b> Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).</p> <p><b>LOD</b> Limit of Detection. A value at or above the MDL which has been verified to be detectable.</p> <p><b>ND</b> Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.</p> |
|---|--|



### Rochester Lab ID # for State Certifications<sup>1</sup>

Connecticut ID # PH0556	Maine ID #NY0032	New Hampshire ID # 294100 A/B
Delaware Accredited	Nebraska Accredited	Pennsylvania ID# 68-786
DoD ELAP #65817	New Jersey ID # NY004	Rhode Island ID # 158
Florida ID # E87674	New York ID # 10145	Virginia #460167
Illinois ID #200047	North Carolina #676	

<sup>1</sup> Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads/North-America-Downloads>



Project Name <b>PPC</b>		Project Number		<b>ANALYSIS REQUESTED (Include Method Number and Container Preservative)</b>																	
Project Manager <b>Kirk Kessler</b>		Report CC		<b>PRESERVATIVE</b>																	
Company/Address <b>1090 Crown Pointe Pkwy Ste 550 Atlanta, GA 30338</b>		Email <b>kkessler@environmental.ny.com</b>		NUMBER OF CONTAINERS	GC/MS VOAs • 8280 • 824 • CLP	GC/MS SVOAs • 8270 • 825	GC VOAs • 8021 • 801/802	PESTICIDES • 8081 • 808	PCBs • 8082 • 808	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	<b>Hex. Cryst. (7199)</b>	Preservative Key 0. NONE 1. HCL 2. HNO <sub>3</sub> 3. H <sub>2</sub> SO <sub>4</sub> 4. NaOH 5. Zn. Acetate 6. MeOH 7. NaHSO <sub>4</sub> 8. Other _____								
Phone # <b>(404) 315-9113</b>		Sampler's Printed Name <b>Jeff Dennis</b>																			
Sampler's Signature 		Sampler's Printed Name <b>Jeff Dennis</b>		REMARKS/ ALTERNATE DESCRIPTION																	
CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING		MATRIX																	
		DATE	TIME																		
15229-SB-18-2		8-17-15	1526	SO																	
15229-SB-14-2		8-17-15	1607	SO																	
15229-SB-13-2		8-17-15	1638	SO																	
15229-SB-20-2		8-17-15	1753	SO																	
SPECIAL INSTRUCTIONS/COMMENTS <b>Metals</b>				TURNAROUND REQUIREMENTS RUSH (SURCHARGES APPLY) 1 day _____ 2 day _____ 3 day _____ 4 day _____ <input checked="" type="checkbox"/> 5 day _____ REQUESTED REPORT DATE _____				REPORT REQUIREMENTS I. Results Only _____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required) _____ <input checked="" type="checkbox"/> III. Results + QC and Calibration Summaries <input checked="" type="checkbox"/> IV. Data Validation Report with Raw Data Edata <input checked="" type="checkbox"/> Yes _____ No _____				INVOICE INFORMATION PO # _____ BILL TO: _____									
STATE WHERE SAMPLES WERE COLLECTED <b>Georgia</b>				RELINQUISHED BY  Signature <b>Jeff Dennis</b> Printed Name <b>EPS</b> Firm <b>8-17-15 1845</b> Date/Time				RECEIVED BY  Signature <b>J. Sewan</b> Printed Name <b>ALS</b> Firm <b>8/18/15 0805</b> Date/Time				RECEIVED BY <b>R1506803 5</b> Environmental Planning Specialists PPC  Date/Time									

# Cooler Receipt and Preservation Check Form

Project EPS Inc. Folder Number 115-6803  
 by JL

COURIER: ALS UPS ~~FEDEX~~ VELOCITY CLIENT

1. Custody seals on outside of cooler?  Y  N  
 2. Dry papers properly completed (ink, signed)?  Y  N  
 3. Did all bottles arrive in good condition (unbroken)?  Y  N  
 Circle: Wet Dry Ice Gel packs present?  Y  N

5a	Perchlorate samples have required headspace?	Y	N	<input checked="" type="checkbox"/> NA
5b	Did VOA vials, Alk, or Sulfide have sig* bubbles?	Y	N	<input checked="" type="checkbox"/> NA
6	Where did the bottles originate?	ALS/BIOC CLIENT		
7	Soil VOA received as:	Bulk	Encore	5035set <input checked="" type="checkbox"/> NA

8. Temperature Readings Date: 8/18/15 Time: 0816

Observed Temp (°C)	<u>5.6</u>								
Correction Factor (°C)	<u>-0.3</u>								
Corrected Temp (°C)	<u>5.3</u>								
Within 0-6°C?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Y	N	Y	N	Y	N	Y	N

If out of Temperature, note packing/ice condition:  
 & Client Approval to Run Samples: \_\_\_\_\_

Ice melted \_\_\_\_\_ Poorly Packed \_\_\_\_\_ Same Day Rule \_\_\_\_\_  
 Standing Approval \_\_\_\_\_ Client aware at drop-off \_\_\_\_\_ Client notified by: \_\_\_\_\_  
 All samples held in storage location: 8002 by JL on 8/18/15 at 0812  
 5035 samples placed in storage location: \_\_\_\_\_ by \_\_\_\_\_ on \_\_\_\_\_ at \_\_\_\_\_  
 PC Secondary Review: JMS 8/19/15

Cooler Breakdown: Date: 8/18/15 Time: 1103 by: JL

- Were all bottle labels complete (i.e. analysis, preservation, etc.)?
- Did all bottle labels and tags agree with custody papers?
- Were correct containers used for the tests indicated?
- Air Samples: Cassettes / Tubes Intact

Canisters Pressurized  YES  NO  
 Tedlar® Bags Inflated  YES  NO

pH	Reagent	Yes	No	Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
≥12	NaOH								
2	HNO <sub>3</sub>								
2	H <sub>2</sub> SO <sub>4</sub>								
<4	NaHSO <sub>4</sub>								
Residual Chlorine (-)	For CN Phenol and 522								
	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	-	-						
	Zn Acetate	-	-						
	HCl	**	**						

Yes=All samples OK  
 No=Samples were preserved at The lab as listed  
 PM OK to Adjust:

\*\*Not to be tested before analysis - pH tested and recorded by VOAs on a separate worksheet

Bottle lot numbers: 062215-1855, 060815-2440  
 Other Comments:

215.6 U-15  
8/17/15  
655-1743

PC Secondary Review: JMS 8/19/15

\*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter

00007

Project Name <b>PPC</b>		Project Number			ANALYSIS REQUESTED (Include Method Number and Container Preservative)												
Project Manager <b>Kirk Kessler</b>		Report CC			PRESERVATIVE												
Company/Address <b>1050 Crown Pointe Pkwy Ste. 550 Atlanta, GA 30338</b>		NUMBER OF CONTAINERS	GC/MS VOA's • 8260 • 824 • CLP GC/MS SYOA's • 8270 • 825 GC VOA's • 8021 • 801/802 PESTICIDES • 8081 • 808 PCBs • 8082 • 808 METALS, TOTAL (List in comments below) METALS, DISSOLVED (List in comments below) Hex Chloro (298, 644) Hex Chloro (7199)												Preservative Key 0. NONE 1. HCL 2. HNO <sub>3</sub> 3. H <sub>2</sub> SO <sub>4</sub> 4. NaOH 5. Zn. Acetate 6. MeOH 7. NaHSO <sub>4</sub> 8. Other (with 60)		
Phone # <b>(404) 315-9113</b>			Email <b>k.kessler@envplanning.com</b>														
Sampler's Signature 		Sampler's Printed Name <b>Jeff Dennis</b>			REMARKS/ALTERNATE DESCRIPTION												
CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING			MATRIX	ANALYSIS REQUESTED											
		DATE	TIME														
15230-SB-15-2		8/18/15	1414	SO	1												
15230-SB-16-2		8/18/15	1431	SO	1												
15230-SB-17-2		8/18/15	1446	SO	1												
15230-MW-5		8/18/15	1108	GW	1												
15230-MW-12		8/18/15	1448	GW	1												
15230-MW-13		8/18/15	1453	GW	1												
SPECIAL INSTRUCTIONS/COMMENTS Metals					TURNAROUND REQUIREMENTS RUSH (SURCHARGES APPLY) 1 day ___ 2 day ___ 3 day ___ 4 day <input checked="" type="checkbox"/> 5 day ___ REQUESTED REPORT DATE				REPORT REQUIREMENTS I. Results Only ___ II. Results + OC Summaries (LCS, DUP, MS/MSD as required) ___ <input checked="" type="checkbox"/> III. Results + OC and Calibration Summaries <input checked="" type="checkbox"/> IV. Data Validation Report with Raw Data				INVOICE INFORMATION PO # BILL TO:				
See QAPP <input type="checkbox"/>					Edata <input checked="" type="checkbox"/> Yes ___ No												
STATE WHERE SAMPLES WERE COLLECTED <b>Georgia</b>																	
RELINQUISHED BY 		RECEIVED BY 		RELINQUISHED BY		RECEIVED BY		RELINQUISHED BY		RECEIVED BY							
Signature <b>Jeff Dennis</b>		Signature <b>Gregory O. Esmerlan</b>		Signature		Signature		Signature		Signature							
Printed Name <b>JEBS</b>		Printed Name <b>Gregory O. Esmerlan</b>		Printed Name		Printed Name		Printed Name		Printed Name							
Firm <b>8/18/15 1645</b>		Firm <b>ALS</b>		Firm		Firm		Firm		Firm							
Date/Time		Date/Time <b>8/19/15 07:45</b>		Date/Time		Date/Time		Date/Time		Date/Time							

**R1506803 5**  
 Environmental Planning Specialists  
 PPC



# Cooler Receipt and Preservation Check Form

Project/Client ERS

Folder Number 115-6403

Cooler received on 8-19-15 by: ME

COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
2	Custody papers properly completed (ink, signed)?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
3	Did all bottles arrive in good condition (unbroken)?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
4	Circle: <u>Wet Ice</u> Dry Ice Gel packs present?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N

5a	Perchlorate samples have required headspace?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA
5b	Did VOA vials, Alk, or Sulfide have sig* bubbles?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA
6	Where did the bottles originate?	<u>ALS/ROC</u> CLIENT
7	Soil VOA received as: Bulk Encore 5035set	<input checked="" type="checkbox"/> NA

8. Temperature Readings Date: 8-19-15 Time: 07:50 ID: IR# IR#5 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>3.7</u>						
Correction Factor (°C)	<u>-0.3</u>						
Corrected Temp (°C)	<u>3.4</u>						
Within 0-6°C?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N

If out of Temperature, note packing/ice condition: \_\_\_\_\_ Ice melted \_\_\_\_\_ Poorly Packed \_\_\_\_\_ Same Day Rule \_\_\_\_\_

& Client Approval to Run Samples: \_\_\_\_\_ Standing Approval \_\_\_\_\_ Client aware at drop-off \_\_\_\_\_ Client notified by: \_\_\_\_\_

All samples held in storage location: R-002 by ME on 8-19-15 at 07:53  
5035 samples placed in storage location: \_\_\_\_\_ by \_\_\_\_\_ on \_\_\_\_\_ at \_\_\_\_\_

PC Secondary Review: AMS 8/19/15

Cooler Breakdown: Date: 8/18/15 Time: 0815 by: MDS

- Were all bottle labels complete (i.e. analysis, preservation, etc.)?  YES  NO
- Did all bottle labels and tags agree with custody papers?  YES  NO
- Were correct containers used for the tests indicated?  YES  NO
- Air Samples: Cassettes / Tubes Intact \_\_\_\_\_ Canisters Pressurized \_\_\_\_\_ Tedlar® Bags Inflated (N/A)

Explain any discrepancies:

pH	Reagent	Yes	No	Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH	
≥12	NaOH									Yes=All samples OK
≤2	HNO <sub>3</sub>									No=Samples were preserved at The lab as listed
≤2	H <sub>2</sub> SO <sub>4</sub>									
<4	NaHSO <sub>4</sub>									
Residual Chlorine (-)	For CN Phenol and 522			If +, contact PM to add Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (CN), ascorbic (phenol).						PM OK to Adjust: _____
	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	-	-							
	ZnAcetate	-	-							
	HCl	**	**							

\*\*Not to be tested before analysis - pH tested and recorded by VOAs on a separate worksheet

Bottle lot numbers: G60815-2AAD, 062215-1BMS Bottle lot #: 20635 exp: 4/16  
Other Comments:

3 Cr76  
218.6 L.L.  
8-18-15  
11:08-16-53  
715230-MW-5 labeled 1520-MW-3 on bottle

PC Secondary Review: AMS 8/19/15 \*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter

Project Name <b>PPC</b>		Project Number			ANALYSIS REQUESTED (Include Method Number and Container Preservative)																
Project Manager <b>Kirk Kessler</b>		Report CC			PRESERVATIVE																
Company/Address <b>1050 Crown Pointe Pkwy Ste. 550</b> <b>Atlanta, GA 30338</b>					NUMBER OF CONTAINERS	GC/MS VOAs • 8260 • 824 • CLP	GC/MS SYOAs • 8270 • 825	GC VOAs • 8021 • 601/602	PESTICIDES • 8081 • 608	PCBs • 8082 • 608	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	Hex Chro-mium (210.822)	Hex. Chromium (7199)	PRESERVATIVE KEY						
Phone # <b>(404) 315-9113</b>		Email <b>KKessler@envplanning.com</b>													0. NONE 1. HCL 2. HNO3 3. H2SO4 4. NaOH 5. Zn. Acetate 6. MeOH 7. NaHSO4 8. Other <b>CH2Cl2 Sol.</b>						
Sampler's Signature <i>[Signature]</i>		Sampler's Printed Name <b>Jeff Dennis</b>			REMARKS/ALTERNATE DESCRIPTION																
CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE		TIME	MATRIX																
15231-MW-8		8-19-15	1158	GW	1																
15231-MW-9		8-19-15	1210	GW	1																
15231-MW-7		8-19-15	1433	GW	1																
15231-MW-11		8-19-15	1518	GW	1																
15231-MW-10		8-19-15	1623	GW	1																
15231-DUP		8-19-15	1200	GW	1																
15231-SD-5		8-19-15	938	SD	1																
15231-SD-6		8-19-15	929	SD	1																
15231-SD-7		8-19-15	857	SD	1																
15231-SD-8		8-19-15	841	SD	1																
15231-SD-9		8-19-15	832	SD	1																
SPECIAL INSTRUCTIONS/COMMENTS Metals						TURNAROUND REQUIREMENTS RUSH (SURCHARGES APPLY) 1 day ___ 2 day ___ 3 day ___ 4 day ___ <b>X</b> 5 day ___ REQUESTED REPORT DATE _____			REPORT REQUIREMENTS I. Results Only II. Results + QC Summaries (LCS, DUP, MS/MSD as required) <b>X</b> III. Results + QC and Calibration Summaries <b>X</b> IV. Data Validation Report with Raw Data Edata <b>X</b> Yes ___ No			INVOICE INFORMATION PO # BILL TO:									
See QAPP <input type="checkbox"/>																					
STATE WHERE SAMPLES WERE COLLECTED																					
RELINQUISHED BY		RECEIVED BY		RELINQUISHED BY		RECEIVED BY		RELINQUISHED BY		RECEIVED BY		RELINQUISHED BY		RECEIVED BY							
<i>[Signature]</i>		<i>[Signature]</i>		<i>[Signature]</i>		<i>[Signature]</i>		<i>[Signature]</i>		<i>[Signature]</i>		<i>[Signature]</i>		<i>[Signature]</i>							
Printed Name <b>Jeff Dennis</b>		Printed Name <b>[Name]</b>		Printed Name		Printed Name		Printed Name		Printed Name		Printed Name		Printed Name							
Firm <b>EPS</b>		Firm <b>ALS</b>		Firm		Firm		Firm		Firm		Firm		Firm							
Date/Time <b>8-19-15 1920</b>		Date/Time <b>8/20/15 0830</b>		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time							

**R1506803 5**  
Environmental Planning Specialists  
PPC  






# Cooler Receipt and Preservation Check Form

Project/Client EEJ

Folder Number R15-6803

Cooler received on 8/20/15 by: JK

COURIER: ALS UPS FEDX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	<input checked="" type="radio"/> Y	<input type="radio"/> N
2	Custody papers properly completed (ink, signed)?	<input checked="" type="radio"/> Y	<input type="radio"/> N
3	Did all bottles arrive in good condition (unbroken)?	<input checked="" type="radio"/> Y	<input type="radio"/> N
4	Circle: <u>Wet Ice</u> Dry Ice Gel packs present?	<input checked="" type="radio"/> Y	<input type="radio"/> N

5a	Perchlorate samples have required headspace?	Y	N	<input checked="" type="radio"/> NA
5b	Did VOA vials, Alk, or Sulfide have sig* bubbles?	Y	N	<input checked="" type="radio"/> NA
6	Where did the bottles originate?	<u>ALS/BOC</u>	CLIENT	
7	Soil VOA received as:	Bulk	Encore	5035set <input checked="" type="radio"/> NA

8. Temperature Readings Date: 8/20/15 Time: 0730 ID: IR#3 IR#5 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>2.8</u>							
Correction Factor (°C)	<u>-</u>							
Corrected Temp (°C)	<u>2.8</u>							
Within 0-6°C?	<input checked="" type="radio"/> Y	<input type="radio"/> N	<input type="radio"/> Y	<input type="radio"/> N	<input type="radio"/> Y	<input type="radio"/> N	<input type="radio"/> Y	<input type="radio"/> N

If out of Temperature, note packing/ice condition: \_\_\_\_\_ Ice melted \_\_\_\_\_ Poorly Packed \_\_\_\_\_ Same Day Rule \_\_\_\_\_  
& Client Approval to Run Samples: \_\_\_\_\_ Standing Approval \_\_\_\_\_ Client aware at drop-off \_\_\_\_\_ Client notified by: \_\_\_\_\_

All samples held in storage location: room by JK on 8/20/15 at 0736  
5035 samples placed in storage location: \_\_\_\_\_ by \_\_\_\_\_ on \_\_\_\_\_ at \_\_\_\_\_

PC Secondary Review: JMS 8/20/15

Cooler Breakdown: Date: 8/20/15 Time: 1253 by: JMS

- Were all bottle labels complete (i.e. analysis, preservation, etc.)?  YES  NO
- Did all bottle labels and tags agree with custody papers?  YES  NO
- Were correct containers used for the tests indicated?  YES  NO
- Air Samples: Cassettes / Tubes Intact \_\_\_\_\_ Canisters Pressurized \_\_\_\_\_ Tedlar® Bags Inflated  Y/A

Explain any discrepancies:

pH	Reagent	Yes	No	Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
≥12	NaOH								
≤2	HNO <sub>3</sub>								
≤2	H <sub>2</sub> SO <sub>4</sub>								
<4	NaHSO <sub>4</sub>								
Residual Chlorine (-)	For CN Phenol and 522			If +, contact PM to add Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (CN), ascorbic (phenol).					
	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	-	-						
	Zn Acetate	-	-						
	HCl	**	**						

Yes=All samples OK

No=Samples were preserved at The lab as listed

PM OK to Adjust: \_\_\_\_\_

\*\*Not to be tested before analysis - pH tested and recorded by VOAs on a separate worksheet

Bottle lot numbers: 060815-2AA0, 062215-1BUS Better lot: 80635 Exp: 4/16

Other Comments:  
215-622 (6)  
8/19-  
1200-1623

PC Secondary Review: JMS 8/20/15 \*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Environmental Planning Specialists  
Project: PPC  
Sample Matrix: Water  
Sample Name: 15229-MW-6  
Lab Code: R1506803-001

Service Request: R1506803  
Date Collected: 8/17/15 1055  
Date Received: 8/18/15

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218:6 LL	0.020 U	µg/L	0.020	1	NA	8/18/15 13:31	

Analytical Report

Client: Environmental Planning Specialists  
Project: PPC  
Sample Matrix: Water  
Sample Name: 15229-MW-2  
Lab Code: R1506803-002

Service Request: R1506803  
Date Collected: 8/17/15 1500  
Date Received: 8/18/15

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6 LL	0.020 U	µg/L	0.020	1	NA	8/18/15 13:43	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Water  
**Sample Name:** 15229-MW-1  
**Lab Code:** R1506803-003

**Service Request:** R1506803  
**Date Collected:** 8/17/15 1528  
**Date Received:** 8/18/15

**Basis:** NA

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6 LL	0.020 U	µg/L	0.020	1	NA	8/18/15 13:55	

Analytical Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Water  
**Sample Name:** 15229-MW-3  
**Lab Code:** R1506803-004

**Service Request:** R1506803  
**Date Collected:** 8/17/15 1713  
**Date Received:** 8/18/15

**Basis:** NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6 LL	0.020	U	µg/L	0.020	1	NA	8/18/15 14:07	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Environmental Planning Specialists  
Project: PPC  
Sample Matrix: Water  
Sample Name: 15229-MW-4  
Lab Code: R1506803-005

Service Request: R1506803  
Date Collected: 8/17/15 1743  
Date Received: 8/18/15

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6 LL	0.020 U	µg/L	0.020	1	NA	8/18/15 14:19	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Soil  
**Sample Name:** 15229-SB-25-2  
**Lab Code:** R1506803-006

**Service Request:** R1506803  
**Date Collected:** 8/17/15 1009  
**Date Received:** 8/18/15

**Basis:** As Received

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Total Solids	ALS SOP	82.6	Percent		1	NA	8/24/15 10:38	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Environmental Planning Specialists  
Project: PPC  
Sample Matrix: Soil  
Sample Name: 15229-SB-25-2  
Lab Code: R1506803-006

Service Request: R1506803  
Date Collected: 8/17/15 1009  
Date Received: 8/18/15

Basis: Dry  
Percent Solids: 82.6

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent	7199	0.48	U	mg/Kg	0.48	1	8/27/15	8/30/15 14:30	
Chromium, Hexavalent	7199	0.48	U	mg/Kg	0.48	1	8/27/15	8/30/15 14:22	



ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Environmental Planning Specialists  
Project: PPC  
Sample Matrix: Soil  
Sample Name: 15229-SB-23-2  
Lab Code: R1506803-007

Service Request: R1506803  
Date Collected: 8/17/15 1101  
Date Received: 8/18/15

Basis: As Received

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Total Solids	ALS SOP	91.3	Percent		1	NA	8/24/15 10:38	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Environmental Planning Specialists  
 Project: PPC  
 Sample Matrix: Soil  
 Sample Name: 15229-SB-23-2  
 Lab Code: R1506803-007

Service Request: R1506803  
 Date Collected: 8/17/15 1101  
 Date Received: 8/18/15

Basis: Dry  
 Percent Solids: 91.3

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent	7199	0.43 U	mg/Kg	0.43	1	8/27/15	8/30/15 14:46	
Chromium, Hexavalent	7199	0.43 U	mg/Kg	0.43	1	8/27/15	8/30/15 14:37	

Analytical Report

Client: Environmental Planning Specialists  
Project: PPC  
Sample Matrix: Soil  
Sample Name: 15229-SB-19-2  
Lab Code: R1506803-008

Service Request: R1506803  
Date Collected: 8/17/15 1336  
Date Received: 8/18/15

Basis: As Received

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Total Solids	ALS SOP	83.3	Percent		1	NA	8/24/15 10:38	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Environmental Planning Specialists  
Project: PPC  
Sample Matrix: Soil  
Sample Name: 15229-SB-19-2  
Lab Code: R1506803-008

Service Request: R1506803  
Date Collected: 8/17/15 1336  
Date Received: 8/18/15

Basis: Dry  
Percent Solids: 83.3

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent	7199	1.22	mg/Kg	0.47	1	8/27/15	8/29/15 11:53	
Chromium, Hexavalent	7199	1.25	mg/Kg	0.47	1	8/27/15	8/29/15 11:44	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Environmental Planning Specialists  
Project: PPC  
Sample Matrix: Soil  
Sample Name: 15229-SB-24-2  
Lab Code: R1506803-009

Service Request: R1506803  
Date Collected: 8/17/15 1302  
Date Received: 8/18/15

Basis: As Received

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Total Solids	ALS SOP	88.4	Percent		1	NA	8/24/15 10:38	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Environmental Planning Specialists  
 Project: PPC  
 Sample Matrix: Soil  
 Sample Name: 15229-SB-24-2  
 Lab Code: R1506803-009

Service Request: R1506803  
 Date Collected: 8/17/15 1302  
 Date Received: 8/18/15

Basis: Dry  
 Percent Solids: 88.4

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent	7199	0.45 U	mg/Kg	0.45	1	8/27/15	8/29/15 13:31	
Chromium, Hexavalent	7199	0.45 U	mg/Kg	0.45	1	8/27/15	8/29/15 13:23	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Environmental Planning Specialists  
Project: PPC  
Sample Matrix: Soil  
Sample Name: 15229-SB-22-2  
Lab Code: R1506803-010

Service Request: R1506803  
Date Collected: 8/17/15 1317  
Date Received: 8/18/15

Basis: As Received

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Total Solids	ALS SOP	88.5	Percent		1	NA	8/24/15 10:38	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Environmental Planning Specialists  
 Project: PPC  
 Sample Matrix: Soil  
 Sample Name: 15229-SB-22-2  
 Lab Code: R1506803-010

Service Request: R1506803  
 Date Collected: 8/17/15 1317  
 Date Received: 8/18/15

Basis: Dry  
 Percent Solids: 88.5

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent	7199	0.44 U	mg/Kg	0.44	1	8/27/15	8/29/15 13:47	
Chromium, Hexavalent	7199	0.44 U	mg/Kg	0.44	1	8/27/15	8/29/15 13:38	



Analytical Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Soil  
**Sample Name:** 15229-SB-21-2  
**Lab Code:** R1506803-011

**Service Request:** R1506803  
**Date Collected:** 8/17/15 1324  
**Date Received:** 8/18/15

**Basis:** As Received

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Total Solids	ALS SOP	87.5	Percent		1	NA	8/24/15 10:38	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Environmental Planning Specialists  
Project: PPC  
Sample Matrix: Soil  
Sample Name: 15229-SB-21-2  
Lab Code: R1506803-011

Service Request: R1506803  
Date Collected: 8/17/15 1324  
Date Received: 8/18/15

Basis: Dry  
Percent Solids: 87.5

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent	7199	0.45	U	mg/Kg	0.45	1	8/27/15	8/29/15 14:03	
Chromium, Hexavalent	7199	0.45	U	mg/Kg	0.45	1	8/27/15	8/29/15 13:54	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Environmental Planning Specialists  
Project: PPC  
Sample Matrix: Soil  
Sample Name: 15229-SB-18-2  
Lab Code: R1506803-012

Service Request: R1506803  
Date Collected: 8/17/15 1526  
Date Received: 8/18/15

Basis: As Received

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Total Solids	ALS SOP	78.0	Percent		1	NA	8/24/15 10:38	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Environmental Planning Specialists  
Project: PPC  
Sample Matrix: Soil  
Sample Name: 15229-SB-18-2  
Lab Code: R1506803-012

Service Request: R1506803  
Date Collected: 8/17/15 1526  
Date Received: 8/18/15

Basis: Dry  
Percent Solids: 78.0

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent	7199	1.13	mg/Kg	0.50	1	8/27/15	8/29/15 14:35	
Chromium, Hexavalent	7199	1.13	mg/Kg	0.50	1	8/27/15	8/29/15 14:27	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Soil  
**Sample Name:** 15229-SB-14-2  
**Lab Code:** R1506803-013

**Service Request:** R1506803  
**Date Collected:** 8/17/15 1607  
**Date Received:** 8/18/15

**Basis:** As Received

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Total Solids	ALS SOP	85.3	Percent		1	NA	8/24/15 10:38	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Soil  
**Sample Name:** 15229-SB-14-2  
**Lab Code:** R1506803-013

**Service Request:** R1506803  
**Date Collected:** 8/17/15 1607  
**Date Received:** 8/18/15

**Basis:** Dry  
**Percent Solids:** 85.3

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent	7199	0.47 U	mg/Kg	0.47	1	8/27/15	8/29/15 14:42	
Chromium, Hexavalent	7199	0.47 U	mg/Kg	0.47	1	8/27/15	8/29/15 14:51	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Environmental Planning Specialists  
Project: PPC  
Sample Matrix: Soil  
Sample Name: 15229-SB-13-2  
Lab Code: R1506803-014

Service Request: R1506803  
Date Collected: 8/17/15 1638  
Date Received: 8/18/15

Basis: As Received

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Total Solids	ALS SOP	83.7	Percent		1	NA	8/24/15 10:38	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Environmental Planning Specialists  
 Project: PPC  
 Sample Matrix: Soil  
 Sample Name: 15229-SB-13-2  
 Lab Code: R1506803-014

Service Request: R1506803  
 Date Collected: 8/17/15 1638  
 Date Received: 8/18/15

Basis: Dry  
 Percent Solids: 83.7

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent	7199	0.91	mg/Kg	0.48	1	8/27/15	8/29/15 14:58	
Chromium, Hexavalent	7199	0.91	mg/Kg	0.48	1	8/27/15	8/29/15 15:06	



ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Environmental Planning Specialists  
Project: PPC  
Sample Matrix: Soil  
Sample Name: 15229-SB-20-2  
Lab Code: R1506803-015

Service Request: R1506803  
Date Collected: 8/17/15 1753  
Date Received: 8/18/15

Basis: As Received

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Total Solids	ALS SOP	78.9	Percent		1	NA	8/24/15 10:38	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Environmental Planning Specialists  
Project: PPC  
Sample Matrix: Soil  
Sample Name: 15229-SB-20-2  
Lab Code: R1506803-015

Service Request: R1506803  
Date Collected: 8/17/15 1753  
Date Received: 8/18/15

Basis: Dry  
Percent Solids: 78.9

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent	7199	0.69	mg/Kg	0.50	1	8/27/15	8/29/15 15:13	
Chromium, Hexavalent	7199	0.70	mg/Kg	0.50	1	8/27/15	8/29/15 15:22	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Environmental Planning Specialists  
Project: PPC  
Sample Matrix: Soil  
Sample Name: 15230-SB-15-2  
Lab Code: R1506803-016

Service Request: R1506803  
Date Collected: 8/18/15 1414  
Date Received: 8/19/15

Basis: As Received

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Total Solids	ALS SOP	87.5	Percent		1	NA	8/24/15 10:38	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Environmental Planning Specialists  
Project: PPC  
Sample Matrix: Soil  
Sample Name: 15230-SB-15-2  
Lab Code: R1506803-016

Service Request: R1506803  
Date Collected: 8/18/15 1414  
Date Received: 8/19/15

Basis: Dry  
Percent Solids: 87.5

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent	7199	0.63	mg/Kg	0.45	1	8/27/15	8/29/15 15:29	
Chromium, Hexavalent	7199	0.62	mg/Kg	0.45	1	8/27/15	8/29/15 15:37	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Soil  
**Sample Name:** 15230-SB-16-2  
**Lab Code:** R1506803-017

**Service Request:** R1506803  
**Date Collected:** 8/18/15 1431  
**Date Received:** 8/19/15

**Basis:** As Received

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Total Solids	ALS SOP	81.7	Percent		1	NA	8/24/15 10:38	

Analytical Report

Client: Environmental Planning Specialists  
 Project: PPC  
 Sample Matrix: Soil  
 Sample Name: 15230-SB-16-2  
 Lab Code: R1506803-017

Service Request: R1506803  
 Date Collected: 8/18/15 1431  
 Date Received: 8/19/15

Basis: Dry  
 Percent Solids: 81.7

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent	7199	0.60	mg/Kg	0.49	1	8/27/15	8/29/15 16:03	
Chromium, Hexavalent	7199	0.61	mg/Kg	0.49	1	8/27/15	8/29/15 16:11	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Environmental Planning Specialists  
Project: PPC  
Sample Matrix: Soil  
Sample Name: 15230-SB-17-2  
Lab Code: R1506803-018

Service Request: R1506803  
Date Collected: 8/18/15 1446  
Date Received: 8/19/15

Basis: As Received

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Total Solids	ALS SOP	77.5	Percent		1	NA	8/24/15 10:38	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Environmental Planning Specialists  
 Project: PPC  
 Sample Matrix: Soil  
 Sample Name: 15230-SB-17-2  
 Lab Code: R1506803-018

Service Request: R1506803  
 Date Collected: 8/18/15 1446  
 Date Received: 8/19/15

Basis: Dry  
 Percent Solids: 77.5

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent	7199	0.58	mg/Kg	0.51	1	8/27/15	8/29/15 16:27	
Chromium, Hexavalent	7199	0.59	mg/Kg	0.51	1	8/27/15	8/29/15 16:18	



ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Environmental Planning Specialists  
Project: PPC  
Sample Matrix: Water  
Sample Name: 15230-MW-5  
Lab Code: R1506803-019

Service Request: R1506803  
Date Collected: 8/18/15 1108  
Date Received: 8/19/15

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6 LL	0.038	µg/L	0.020	1	NA	8/31/15 13:34	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Water  
**Sample Name:** 15230-MW-12  
**Lab Code:** R1506803-020

**Service Request:** R1506803  
**Date Collected:** 8/18/15 1448  
**Date Received:** 8/19/15

**Basis:** NA

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6 LL	0.049	µg/L	0.020	1	NA	8/31/15 11:34	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Environmental Planning Specialists  
 Project: PPC  
 Sample Matrix: Water  
 Sample Name: 15230-MW-13  
 Lab Code: R1506803-021

Service Request: R1506803  
 Date Collected: 8/18/15 1653  
 Date Received: 8/19/15

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6 LL	0.043	µg/L	0.020	1	NA	8/31/15 11:46	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Environmental Planning Specialists  
 Project: PPC  
 Sample Matrix: Water  
 Sample Name: 15231-MW-8  
 Lab Code: R1506803-022

Service Request: R1506803  
 Date Collected: 8/19/15 11:58  
 Date Received: 8/20/15

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6 LL	0.020	U	µg/L	0.020	1	NA	8/31/15 11:58	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Water  
**Sample Name:** 15231-MW-9  
**Lab Code:** R1506803-023

**Service Request:** R1506803  
**Date Collected:** 8/19/15 12:10  
**Date Received:** 8/20/15

**Basis:** NA

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6 LL	0.020 U	µg/L	0.020	1	NA	8/31/15 12:10	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Water  
**Sample Name:** 15231-MW-7  
**Lab Code:** R1506803-024

**Service Request:** R1506803  
**Date Collected:** 8/19/15 1433  
**Date Received:** 8/20/15

**Basis:** NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6 LL	0.020	U	µg/L	0.020	1	NA	8/31/15 12:22	

Analytical Report

Client: Environmental Planning Specialists  
 Project: PPC  
 Sample Matrix: Water  
 Sample Name: 15231-MW-11  
 Lab Code: R1506803-025

Service Request: R1506803  
 Date Collected: 8/19/15 1518  
 Date Received: 8/20/15

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6 LL	0.058	µg/L	0.020	1	NA	8/31/15 12:34	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Environmental Planning Specialists  
Project: PPC  
Sample Matrix: Water  
Sample Name: 15231-MW-10  
Lab Code: R1506803-026

Service Request: R1506803  
Date Collected: 8/19/15 1623  
Date Received: 8/20/15

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6 LL	0.068	µg/L	0.020	1	NA	8/31/15 12:46	



ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Environmental Planning Specialists  
Project: PPC  
Sample Matrix: Water  
Sample Name: 15231-DUP  
Lab Code: R1506803-027

Service Request: R1506803  
Date Collected: 8/19/15 1200  
Date Received: 8/20/15

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6 LL	0.066	µg/L	0.020	1	NA	8/31/15 12:58	

Analytical Report

Client: Environmental Planning Specialists  
Project: PPC  
Sample Matrix: Soil  
Sample Name: 15231-SD-5  
Lab Code: R1506803-028

Service Request: R1506803  
Date Collected: 8/19/15 0938  
Date Received: 8/20/15

Basis: As Received

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Total Solids	ALS SOP	33.6	Percent		1	NA	8/24/15 10:38	

Analytical Report

Client: Environmental Planning Specialists  
 Project: PPC  
 Sample Matrix: Soil  
 Sample Name: 15231-SD-5  
 Lab Code: R1506803-028

Service Request: R1506803  
 Date Collected: 8/19/15 0938  
 Date Received: 8/20/15

Basis: Dry  
 Percent Solids: 33.6

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent	7199	10.7	mg/Kg	1.1	1	8/27/15	8/29/15 16:34	
Chromium, Hexavalent	7199	10.7	mg/Kg	1.1	1	8/27/15	8/29/15 16:43	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Environmental Planning Specialists  
Project: PPC  
Sample Matrix: Soil  
Sample Name: 15231-SD-6  
Lab Code: R1506803-029

Service Request: R1506803  
Date Collected: 8/19/15 0927  
Date Received: 8/20/15

Basis: As Received

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Total Solids	ALS SOP	37.2	Percent		1	NA	8/24/15 10:38	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Environmental Planning Specialists  
 Project: PPC  
 Sample Matrix: Soil  
 Sample Name: 15231-SD-6  
 Lab Code: R1506803-029

Service Request: R1506803  
 Date Collected: 8/19/15 0927  
 Date Received: 8/20/15

Basis: Dry  
 Percent Solids: 37.2

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent	7199	7.1		mg/Kg	1.1	1	8/27/15	8/29/15 16:50	
Chromium, Hexavalent	7199	7.2		mg/Kg	1.1	1	8/27/15	8/29/15 16:58	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Environmental Planning Specialists  
Project: PPC  
Sample Matrix: Soil  
Sample Name: 15231-SD-7  
Lab Code: R1506803-030

Service Request: R1506803  
Date Collected: 8/19/15 0857  
Date Received: 8/20/15

Basis: As Received

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Total Solids	ALS SOP	39.2	Percent		1	NA	8/24/15 10:38	

Analytical Report

Client: Environmental Planning Specialists  
 Project: PPC  
 Sample Matrix: Soil  
 Sample Name: 15231-SD-7  
 Lab Code: R1506803-030

Service Request: R1506803  
 Date Collected: 8/19/15 0857  
 Date Received: 8/20/15

Basis: Dry  
 Percent Solids: 39.2

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent	7199	0.98 U	mg/Kg	0.98	1	8/27/15	8/29/15 17:05	
Chromium, Hexavalent	7199	0.98 U	mg/Kg	0.98	1	8/27/15	8/29/15 17:14	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Environmental Planning Specialists  
Project: PPC  
Sample Matrix: Soil  
Sample Name: 15231-SD-8  
Lab Code: R1506803-031

Service Request: R1506803  
Date Collected: 8/19/15 0841  
Date Received: 8/20/15

Basis: As Received

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Total Solids	ALS SOP	68.7	Percent		1	NA	8/24/15 10:38	



ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Environmental Planning Specialists  
 Project: PPC  
 Sample Matrix: Soil  
 Sample Name: 15231-SD-8  
 Lab Code: R1506803-031

Service Request: R1506803  
 Date Collected: 8/19/15 0841  
 Date Received: 8/20/15

Basis: Dry  
 Percent Solids: 68.7

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent	7199	0.58	U	mg/Kg	0.58	1	8/27/15	8/29/15 17:38	
Chromium, Hexavalent	7199	0.58	U	mg/Kg	0.58	1	8/27/15	8/29/15 17:46	

Analytical Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Soil  
**Sample Name:** 15231-SD-9  
**Lab Code:** R1506803-032

**Service Request:** R1506803  
**Date Collected:** 8/19/15 0832  
**Date Received:** 8/20/15

**Basis:** As Received

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Total Solids	ALS SOP	40.3	Percent		1	NA	8/24/15 10:38	



ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Environmental Planning Specialists  
 Project: PPC  
 Sample Matrix: Soil  
 Sample Name: 15231-SD-9  
 Lab Code: R1506803-032

Service Request: R1506803  
 Date Collected: 8/19/15 0832  
 Date Received: 8/20/15

Basis: Dry  
 Percent Solids: 40.3

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent	7199	0.96 U	mg/Kg	0.96	1	8/27/15	8/29/15 17:53	
Chromium, Hexavalent	7199	0.96 U	mg/Kg	0.96	1	8/27/15	8/29/15 18:02	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Environmental Planning Specialists  
 Project: PPC  
 Sample Matrix: Water  
 Sample Name: Method Blank  
 Lab Code: R1506803-MB1

Service Request: R1506803  
 Date Collected: NA  
 Date Received: NA

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6 LL	0.020 U	µg/L	0.020	1	NA	8/18/15 11:38	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Environmental Planning Specialists  
Project: PPC  
Sample Matrix: Water  
Sample Name: Method Blank  
Lab Code: R1506803-MB2

Service Request: R1506803  
Date Collected: NA  
Date Received: NA

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6 LL	0.020	U	µg/L	0.020	1	NA	8/31/15 10:46	

Analytical Report

Client: Environmental Planning Specialists  
 Project: PPC  
 Sample Matrix: Soil  
 Sample Name: Method Blank  
 Lab Code: R1506803-MB3

Service Request: R1506803  
 Date Collected: NA  
 Date Received: NA

Basis: Dry

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent	7199	0.40	U	mg/Kg	0.40	1	8/27/15	8/29/15 11:22	
Chromium, Hexavalent	7199	0.40	U	mg/Kg	0.40	1	8/27/15	8/29/15 11:13	

Client: Environmental Planning Specialists  
 Project: PPC  
 Sample Matrix: Soil

Service Request: R1506803  
 Date Analyzed: 8/29/15

Lab Control Sample Summary  
 General Chemistry Parameters

Units: mg/Kg  
 Basis: Dry

Lab Control Sample  
 R1506803-LCS1

Analyte Name	Method	Result	Spike Amount	% Rec	% Rec Limits
Chromium, Hexavalent	7199	669	656	102	80 - 120
Chromium, Hexavalent	7199	665	656	101	80 - 120

Results flagged with an asterisk (\*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Environmental Planning Specialists  
 Project: PPC  
 Sample Matrix: Water

Service Request: R1506803  
 Date Analyzed: 8/18/15

Lab Control Sample Summary  
 General Chemistry Parameters

Units: µg/L  
 Basis: NA

Lab Control Sample  
 R1506803-LCS2

Analyte Name	Method	Result	Spike Amount	% Rec	% Rec Limits
Chromium, Hexavalent, Dissolved	218.6 LL	0.198	0.200	99	90 - 110

Results flagged with an asterisk (\*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.



Client: Environmental Planning Specialists  
 Project: PPC  
 Sample Matrix: Water

Service Request: R1506803  
 Date Analyzed: 8/31/15

Lab Control Sample Summary  
 General Chemistry Parameters

Units: µg/L  
 Basis: NA

Lab Control Sample  
 R1506803-LCS3

Analyte Name	Method	Result	Spike Amount	% Rec	% Rec Limits
Chromium, Hexavalent, Dissolved	218.6 LL	0.203	0.200	101	90 - 110

Results flagged with an asterisk (\*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.



ALS Environmental  
ALS Group USA, Corp  
1565 Jefferson Rd, Building 300, Suite 360  
Rochester, NY 14623  
T: 585-288-5380  
F: 585-288-8475  
[www.alsglobal.com](http://www.alsglobal.com)

September 09, 2015

**Analytical Report for Service Request No: R1506803**

Mr. William Crowe  
Environmental Planning Specialists  
1050 Crown Pointe Parkway  
Suite 550  
Atlanta, GA 30338

**Laboratory Results for: PPC**

Dear Mr. Crowe:

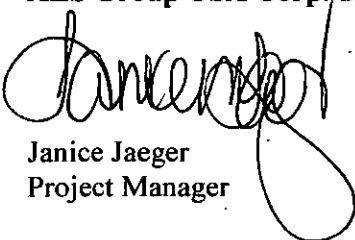
Enclosed are the results of the sample(s) submitted to our laboratory between August 18, 2015 and August 20, 2015. For your reference, these analyses have been assigned our service request number **R1506803**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7472. You may also contact me via email at [Janice.Jaeger@alsglobal.com](mailto:Janice.Jaeger@alsglobal.com).

Respectfully submitted,

**ALS Group USA Corp. dba ALS Environmental**



Janice Jaeger  
Project Manager

Page 1 of 302



# SDG NARRATIVE

**ALS Environmental - Rochester, NY**  
1565 Jefferson Rd, Bldg. 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)

## ALS Environmental

Client: EPS  
Service Request No.: R1506803  
Project: PPC  
Date Received: 8/18-20/15  
Sample Matrix: Soil/Water  
Project/Case No.:

### CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier II data deliverables. When appropriate to the method, method blank results have been reported with each analytical test. Surrogate recoveries have been reported for all applicable organic analyses. Additional quality control analyses reported herein include: Laboratory Control Sample (LCS).

#### Sample Receipt

Water and soil samples were received for analysis at ALS Environmental on 8/18-20/15. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator between 1°C and 6°C upon receipt at the laboratory.

#### Inorganics

Soil and water samples were analyzed for a site specific list of inorganics. Please see attached report pages for method numbers.

All Laboratory Control Sample (LCS) recoveries were within limits.

Site specific QC was not requested on these samples.

All Method blanks were free of contamination.

No other analytical or QC problems were encountered.

### ALS ASP/CLP Batching Form/Login Sheet

Client Proj #: R1506803	Batch Complete: Yes	Date Revised:
Submission: R1506803	Diskette Requested: No	Date Due: 9/10/15
Client: Environmental Planning Specialist	Date: 8/24/15	Protocol: MCAWW
Client Rep: JJAEGER	Custody Seal: Present/Absent:	Shipping No.:
Project: PPC	Chain of Custody: Present/Absent:	SDG #:

CAS Job #	Client/EPA ID	Matrix	Requested Parameters	Date Sampled	Date Received	pH (Solids)	% Solids	Remarks Sample Condition
R1506803-001	15229-MW-6	Water	218.6 LL	8/17/15	8/18/15			
R1506803-002	15229-MW-2	Water	218.6 LL	8/17/15	8/18/15			
R1506803-003	15229-MW-1	Water	218.6 LL	8/17/15	8/18/15			
R1506803-004	15229-MW-3	Water	218.6 LL	8/17/15	8/18/15			
R1506803-005	15229-MW-4	Water	218.6 LL	8/17/15	8/18/15			
R1506803-006	15229-SB-25-2	Soil	ALS SOP, 7199	8/17/15	8/18/15			
R1506803-007	15229-SB-23-2	Soil	7199, ALS SOP	8/17/15	8/18/15			
R1506803-008	15229-SB-19-2	Soil	7199, ALS SOP	8/17/15	8/18/15			
R1506803-009	15229-SB-24-2	Soil	7199, ALS SOP	8/17/15	8/18/15			
R1506803-010	15229-SB-22-2	Soil	7199, ALS SOP	8/17/15	8/18/15			
R1506803-011	15229-SB-21-2	Soil	7199, ALS SOP	8/17/15	8/18/15			
R1506803-012	15229-SB-18-2	Soil	7199, ALS SOP	8/17/15	8/18/15			
R1506803-013	15229-SB-14-2	Soil	7199, ALS SOP	8/17/15	8/18/15			
R1506803-014	15229-SB-13-2	Soil	7199, ALS SOP	8/17/15	8/18/15			
R1506803-015	15229-SB-20-2	Soil	7199, ALS SOP	8/17/15	8/18/15			
R1506803-016	15230-SB-15-2	Soil	7199, ALS SOP	8/18/15	8/19/15			
R1506803-017	15230-SB-16-2	Soil	ALS SOP, 7199	8/18/15	8/19/15			
R1506803-018	15230-SB-17-2	Soil	7199, ALS SOP	8/18/15	8/19/15			
R1506803-019	15230-MW-5	Water	218.6 LL	8/18/15	8/19/15			
R1506803-020	15230-MW-12	Water	218.6 LL	8/18/15	8/19/15			
R1506803-021	15230-MW-13	Water	218.6 LL	8/18/15	8/19/15			
R1506803-022	15231-MW-8	Water	218.6 LL	8/19/15	8/20/15			
R1506803-023	15231-MW-9	Water	218.6 LL	8/19/15	8/20/15			
R1506803-024	15231-MW-7	Water	218.6 LL	8/19/15	8/20/15			
R1506803-025	15231-MW-11	Water	218.6 LL	8/19/15	8/20/15			
R1506803-026	15231-MW-10	Water	218.6 LL	8/19/15	8/20/15			
R1506803-027	15231-DUP	Water	218.6 LL	8/19/15	8/20/15			
R1506803-028	15231-SD-5	Soil	ALS SOP, 7199	8/19/15	8/20/15			
R1506803-029	15231-SD-6	Soil	ALS SOP, 7199	8/19/15	8/20/15			
R1506803-030	15231-SD-7	Soil	7199, ALS SOP	8/19/15	8/20/15			
R1506803-031	15231-SD-8	Soil	7199, ALS SOP	8/19/15	8/20/15			
R1506803-032	15231-SD-9	Soil	7199, ALS SOP	8/19/15	8/20/15			

0004

Folder Comments:

## REPORT QUALIFIERS AND DEFINITIONS

- |   |  |
|---|--|
| <p><b>U</b> Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.</p> <p><b>J</b> Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration &gt;40% difference between two GC columns (pesticides/Aroclors).</p> <p><b>B</b> Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.</p> <p><b>E</b> Inorganics- Concentration is estimated due to the serial dilution was outside control limits.</p> <p><b>E</b> Organics- Concentration has exceeded the calibration range for that specific analysis.</p> <p><b>D</b> Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.</p> <p><b>*</b> Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.</p> <p><b>H</b> Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.</p> <p><b>#</b> Spike was diluted out.</p> | <p><b>+</b> Correlation coefficient for MSA is &lt;0.995.</p> <p><b>N</b> Inorganics- Matrix spike recovery was outside laboratory limits.</p> <p><b>N</b> Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.</p> <p><b>S</b> Concentration has been determined using Method of Standard Additions (MSA).</p> <p><b>W</b> Post-Digestion Spike recovery is outside control limits and the sample absorbance is &lt;50% of the spike absorbance.</p> <p><b>P</b> Concentration &gt;40% (25% for CLP) difference between the two GC columns.</p> <p><b>C</b> Confirmed by GC/MS</p> <p><b>Q</b> DoD reports: indicates a pesticide/Aroclor is not confirmed (<math>\geq 100\%</math> Difference between two GC columns).</p> <p><b>X</b> See Case Narrative for discussion.</p> <p><b>MRL</b> Method Reporting Limit. Also known as:</p> <p><b>LOQ</b> Limit of Quantitation (LOQ)<br/>The lowest concentration at which the method analyte may be reliably quantified under the method conditions.</p> <p><b>MDL</b> Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).</p> <p><b>LOD</b> Limit of Detection. A value at or above the MDL which has been verified to be detectable.</p> <p><b>ND</b> Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.</p> |
|---|--|



### Rochester Lab ID # for State Certifications<sup>1</sup>

Connecticut ID # PH0556	Maine ID #NY0032	New Hampshire ID # 294100 A/B
Delaware Accredited	Nebraska Accredited	
DoD ELAP #65817	New Jersey ID # NY004	Pennsylvania ID# 68-786
Florida ID # E87674	New York ID # 10145	Rhode Island ID # 158
Illinois ID #200047	North Carolina #676	Virginia #460167

<sup>1</sup> Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads/North-America-Downloads>



# CHAINS OF CUSTODY

**ALS Environmental - Rochester, NY**  
1565 Jefferson Rd, Bldg. 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)

RIGHT SOLUTIONS | RIGHT PARTNER



Project Name <b>PPC</b>		Project Number			ANALYSIS REQUESTED (Include Method Number and Container Preservative)															
Project Manager <b>Kirk Kessler</b>		Report CC			PRESERVATIVE															
Company/Address <b>1050 Crown Pointe Pkwy Ste. 550 Atlanta, GA 30338</b>					NUMBER OF CONTAINERS	GC/MS VOAs • 8230 • 824 • CLP GC/MS SVOCs • 8270 • 825 GC VOAs • 8021 • 801/802 PESTICIDES • 8081 • 808 PCBs • 8082 • 808 METALS, TOTAL (List in comments below) METALS, DISSOLVED (List in comments below) <b>Hex Chrome (219.611)</b> <b>Hex Chrome (7199)</b>	PRESERVATIVE KEY 0. NONE 1. HCL 2. HNO3 3. H2SO4 4. NaOH 5. Zn. Acetate 6. MeOH 7. NaHSO4 8. Other <b>(None)</b> REMARKS ALTERNATE DESCRIPTION													
Phone # <b>(404) 315-9113</b>		Email <b>kessler@envplanning.com</b>																		
Sampler's Signature 		Sampler's Printed Name <b>Jeff Dennis</b>																		
CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE		TIME	MATRIX															
15229-MW-6		8-17-15	1055	GW	1															
15229-MW-2		8-17-15	1500	GW	1															
15229-MW-1		8-17-15	1528	GW	1															
15229-MW-3		8-17-15	1713	GW	7															
15229-MW-4		8-17-15	1743	GW	1															
15229-SB-25-2		8-17-15	1009	SO	1															
15229-SB-23-2		8-17-15	1101	SO	1															
15229-SB-19-2		8-17-15	1336	SO	1															
15229-SB-24-2		8-17-15	1302	SO	1															
15229-SB-22-2		8-17-15	1317	SO	1															
15229-SB-21-2		8-17-15	1324	SO	1															
SPECIAL INSTRUCTIONS/COMMENTS Metals					TURNAROUND REQUIREMENTS RUSH (SURCHARGES APPLY) 1 day ___ 2 day ___ 3 day ___ 4 day ___ <b>X</b> 5 day ___ REQUESTED REPORT DATE					REPORT REQUIREMENTS I. Results Only ___ II. Results + QC Summaries (LCS, DUP, MS/MSD as required) ___ <b>X</b> III. Results + QC and Calibration Summaries <b>X</b> IV. Data Validation Report with Raw Data Edata <b>X</b> Yes ___ No					INVOICE INFORMATION PO # BILL TO:					
See QAPP <input type="checkbox"/>																				
STATE WHERE SAMPLES WERE COLLECTED <b>Georgia</b>																				
RELINQUISHED BY 		RECEIVED BY 			RELINQUISHED BY			RECEIVED BY			RELINQUISHED BY			RECEIVED BY						
Signature <b>Jeff Dennis</b>		Signature <b>J. Smith</b>			Signature			Signature			Signature			Signature						
Printed Name <b>Jeff Dennis</b>		Printed Name <b>J. Smith</b>			Printed Name			Printed Name			Printed Name			Printed Name						
Firm <b>EPS</b>		Firm <b>AMS</b>			Firm			Firm			Firm			Firm						
Date/Time <b>8-17-15 1845</b>		Date/Time <b>8/18/15 0945</b>			Date/Time			Date/Time			Date/Time			Date/Time						

**R1506803** 5  
Environmental Planning Specialists  
Hexavalent chromium



Project Name <b>PPC</b>		Project Number		ANALYSIS REQUESTED (Include Method Number and Container Preservative)																																										
Project Manager <b>Kirk Kessler</b>		Report CC		PRESERVATIVE																																										
Company/Address <b>1050 Crown Pointe Pkwy Ste 550 Atlanta, GA 30338</b>		Phone # <b>(404) 315-9113</b>		Email <b>kkessler@envplanning.com</b>		<table border="1"> <tr> <td>NUMBER OF CONTAINERS</td> <td>GC/MS VOAs • 8230 • 824 • CLP</td> <td>GC/MS SVOAs • 8270 • 825</td> <td>GC VOAs • 8021 • 801/802</td> <td>PESTICIDES • 8081 • 808</td> <td>PCBs • 8082 • 808</td> <td>METALS, TOTAL (List in comments below)</td> <td>METALS, DISSOLVED (List in comments below)</td> <td colspan="5"><b>Hex. Chrom (7199)</b></td> <td colspan="2">Preservative Key 0. NONE 1. HCL 2. HNO<sub>3</sub> 3. H<sub>2</sub>SO<sub>4</sub> 4. NaOH 5. Zn. Acetate 6. MeOH 7. NaHSO<sub>4</sub> 8. Other _____</td> </tr> <tr> <td colspan="14">REMARKS/ ALTERNATE DESCRIPTION</td> </tr> </table>												NUMBER OF CONTAINERS	GC/MS VOAs • 8230 • 824 • CLP	GC/MS SVOAs • 8270 • 825	GC VOAs • 8021 • 801/802	PESTICIDES • 8081 • 808	PCBs • 8082 • 808	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	<b>Hex. Chrom (7199)</b>					Preservative Key 0. NONE 1. HCL 2. HNO <sub>3</sub> 3. H <sub>2</sub> SO <sub>4</sub> 4. NaOH 5. Zn. Acetate 6. MeOH 7. NaHSO <sub>4</sub> 8. Other _____		REMARKS/ ALTERNATE DESCRIPTION													
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REMARKS/ ALTERNATE DESCRIPTION																																														
Sampler's Signature 		Sampler's Printed Name <b>Jeff Dennis</b>																																												
CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE		TIME	MATRIX																																									
15229-SB-18-2		8-17-15	1526	SO	1																																									
15229-SB-14-2		8-17-15	1607	SO	1																																									
15229-SB-13-2		8-17-15	1638	SO	1																																									
15229-SB-20-2		8-17-15	1753	SO	1																																									
SPECIAL INSTRUCTIONS/COMMENTS Metals						TURNAROUND REQUIREMENTS RUSH (SURCHARGES APPLY) 1 day ___ 2 day ___ 3 day ___ 4 day <input checked="" type="checkbox"/> 5 day ___ REQUESTED REPORT DATE _____			REPORT REQUIREMENTS I. Results Only II. Results + QC Summaries (LCS, DUP, MS/MSD as required) <input checked="" type="checkbox"/> III. Results + QC and Calibration Summaries <input checked="" type="checkbox"/> IV. Data Validation Report with Raw Data Edata <input checked="" type="checkbox"/> Yes ___ No			INVOICE INFORMATION PO # BILL TO:																																		
STATE WHERE SAMPLES WERE COLLECTED <b>Georgia</b>						RELINQUISHED BY  Signature <b>Jeff Dennis</b> Printed Name <b>EPS</b> Firm <b>8-17-15 1845</b> Date/Time			RECEIVED BY  Signature <b>J. Sewan</b> Printed Name <b>ALS</b> Firm <b>8/18/15 0905</b> Date/Time			RELINQUISHED BY			RECEIVED BY																															
												<b>R1506803 5</b> Environmental Planning Specialists PPC 																																		



# Cooler Receipt and Preservation Check Form

Project/Client EPS Inc. Folder Number ALS-6803

Cooler received on 8/18/15 by: JL COURIER: ALS UPS ~~FEDEX~~ VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
2	Custody papers properly completed (ink, signed)?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
3	Did all bottles arrive in good condition (unbroken)?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
4	Circle: <del>Wet Ice</del> Dry Ice Gel packs present?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N

5a	Perchlorate samples have required headspace?	Y	N	<input checked="" type="checkbox"/> NA
5b	Did VOA vials, Alk, or Sulfide have sig* bubbles?	Y	N	<input checked="" type="checkbox"/> NA
6	Where did the bottles originate?	ALS/DOC CLIENT		
7	Soil VOA received as:	Bulk	Encore	5035set <input checked="" type="checkbox"/> NA

8. Temperature Readings Date: 8/18/15 Time: 0810 ID: IR#3 IR#5 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>5.6</u>							
Correction Factor (°C)	<u>-0.3</u>							
Corrected Temp (°C)	<u>5.3</u>							
Within 0-6°C?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	Y	N	Y	N	Y	N

If out of Temperature, note packing/ice condition: Ice melted Poorly Packed Same Day Rule  
& Client Approval to Run Samples: Standing Approval Client aware at drop-off Client notified by: \_\_\_\_\_

All samples held in storage location: 1052 by JL on 8/18/15 at 0812  
5035 samples placed in storage location: \_\_\_\_\_ by \_\_\_\_\_ on \_\_\_\_\_ at \_\_\_\_\_

PC Secondary Review: JLW 8/19/15

Cooler Breakdown: Date: 8/18/15 Time: 1103 by: JL

- Were all bottle labels complete (i.e. analysis, preservation, etc.)?  YES  NO
- Did all bottle labels and tags agree with custody papers?  YES  NO
- Were correct containers used for the tests indicated?  YES  NO
- Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated NA

Explain any discrepancies:

pH	Reagent	Yes	No	Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
≥12	NaOH								
≤2	HNO <sub>3</sub>								
≤2	H <sub>2</sub> SO <sub>4</sub>								
<4	NaHSO <sub>4</sub>								
Residual Chlorine (-)	For CN Phenol and 522			If +, contact PM to add Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (CN), ascorbic (phenol).					
	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	-	-						
	ZnAcetate	-	-						
	HCl	**	**						

Yes=All samples OK  
No=Samples were preserved at The lab as listed  
PM OK to Adjust: \_\_\_\_\_

\*\*Not to be tested before analysis - pH tested and recorded by VOAs on a separate worksheet

Bottle lot numbers: 062215-18NS, 060515-2AAB  
Other Comments:

215.6 41-(5)  
8/17/15  
1055-1743

PC Secondary Review: JLW 8/19/15 \*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter

Project Name <b>PPC</b>		Project Number		ANALYSIS REQUESTED (Include Method Number and Container Preservative)															
Project Manager <b>Kirk Kessler</b>		Report OC		PRESERVATIVE															
Company/Address <b>1050 Crown Pointe Pkwy Ste. 550 Atlanta, GA 30338</b>		NUMBER OF CONTAINERS	<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">GC/MS VOAs • 8260 • 824 • CLP</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">GC/MS SVOAs • 8270 • 825</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">GC VOAs • 8021 • 801/802</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">PESTICIDES • 8081 • 808</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">PCBs • 8082 • 808</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">METALS, TOTAL (List in comments below)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">METALS, DISSOLVED (List in comments below)</div> </div>											Preservative Key 0. NONE 1. HCL 2. HNO <sub>3</sub> 3. H <sub>2</sub> SO <sub>4</sub> 4. NaOH 5. Zn. Acetate 6. MeOH 7. NaHSO <sub>4</sub> 8. Other <b>(NH<sub>4</sub>)<sub>2</sub>SO<sub>4</sub></b>					
Phone # <b>(404) 315-9113</b>			Email <b>k.kessler@envplanning.com</b>		<div style="display: flex; justify-content: space-around;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Hex Chrom (245.664)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Hex Chrom (7199)</div> </div>														
Sampler's Signature 			Sampler's Printed Name <b>Jeff Dennis</b>																
REMARKS/ALTERNATE DESCRIPTION																			
CLIENT SAMPLE ID		FOR OFFICE USE ONLY LAB ID		SAMPLING DATE		TIME		MATRIX											
15230-SB-15-2				8/18/15		1414		SO		1									
15230-SB-16-2				8/18/15		1431		SO		1									
15230-SB-17-2				8/18/15		1446		SO		1									
15230-MW-5				8/18/15		1108		GW		1									
15230-MW-12				8/18/15		1448		GW		1									
15230-MW-13				8/18/15		1653		GW		1									
SPECIAL INSTRUCTIONS/COMMENTS Metals				TURNAROUND REQUIREMENTS RUSH (SURCHARGES APPLY) 1 day ___ 2 day ___ 3 day ___ 4 day ___ 5 day <input checked="" type="checkbox"/>				REPORT REQUIREMENTS I. Results Only ___ II. Results + OC Summaries (LCS, DUP, MS/MSD as required) ___ III. Results + OC and Calibration Summaries <input checked="" type="checkbox"/> IV. Data Validation Report with Raw Data <input checked="" type="checkbox"/>				INVOICE INFORMATION PO # BILL TO:							
STATE WHERE SAMPLES WERE COLLECTED <b>Georgia</b>				REQUINISHED BY  Printed Name <b>Jeff Dennis</b> Firm <b>ALS</b> Date/Time <b>8/18/15 1845</b>				RECEIVED BY  Printed Name <b>Gregory O. Gomerlan</b> Firm <b>ALS</b> Date/Time <b>8-19-15 07:45</b>				REQUINISHED BY Signature Printed Name Firm Date/Time				RECEIVED BY Signature Printed Name Firm Date/Time			

**R1506803** 5  
Environmental Planning Specialists  
PPC



# Cooler Receipt and Preservation Check Form

Project/Client ERS Folder Number 115-6483

Cooler received on 8-19-15 by: HE COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
2	Custody papers properly completed (ink, signed)?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
3	Did all bottles arrive in good condition (unbroken)?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
4	Circle: <u>Wet Ice</u> Dry Ice Gel packs present?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N

5a	Perchlorate samples have required headspace?	Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA
5b	Did VOA vials, Alk, or Sulfide have sig* bubbles?	Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA
6	Where did the bottles originate?	<u>ALS/ROC</u> CLIENT
7	Soil VOA received as: Bulk Encore 5035set	<u>NA</u>

8. Temperature Readings Date: 8-19-15 Time: 07:50 ID: IR#3 IR#5 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>3.7</u>						
Correction Factor (°C)	<u>-0.3</u>						
Corrected Temp (°C)	<u>3.4</u>						
Within 0-6°C?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N

If out of Temperature, note packing/ice condition: \_\_\_\_\_ Ice melted \_\_\_\_\_ Poorly Packed \_\_\_\_\_ Same Day Rule \_\_\_\_\_  
& Client Approval to Run Samples: \_\_\_\_\_ Standing Approval \_\_\_\_\_ Client aware at drop-off \_\_\_\_\_ Client notified by: \_\_\_\_\_

All samples held in storage location: R-002 by HE on 8-19-15 at 07:53  
5035 samples placed in storage location: \_\_\_\_\_ by \_\_\_\_\_ on \_\_\_\_\_ at \_\_\_\_\_

PC Secondary Review: MM 8/19/15

Cooler Breakdown: Date: 8/18/15 Time: 0815 by: MDS

- Were all bottle labels complete (i.e. analysis, preservation, etc.)?  YES  NO
- Did all bottle labels and tags agree with custody papers?  YES  NO
- Were correct containers used for the tests indicated?  YES  NO
- Air Samples: Cassettes / Tubes Intact \_\_\_\_\_ Canisters Pressurized \_\_\_\_\_ Tedlar® Bags Inflated (N/A)

Explain any discrepancies:

pH	Reagent	Yes	No	Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
≥12	NaOH								
≤2	HNO <sub>3</sub>								
≤2	H <sub>2</sub> SO <sub>4</sub>								
<4	NaHSO <sub>4</sub>								
Residual Chlorine (-)	For CN Phenol and 522			If +, contact PM to add Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (CN), ascorbic (phenol).					
	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	-	-						
	Zn Acetate	-	-						
	HCl	**	**						

Yes=All samples OK  
No=Samples were preserved at The lab as listed  
PM OK to Adjust: \_\_\_\_\_

Bottle lot numbers: G60815-2AA0, 062215-1BNS Bottle lot #: 80635 exp: 4/16  
Other Comments: \_\_\_\_\_

3 Cr76  
218.6 LL  
8-18-15  
11:08-16:53  
15230-MW-5 labeled 1520-MW-3 on bottle

PC Secondary Review: MM 8/19/15 \*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter

Project Name <b>PPC</b>		Project Number		ANALYSIS REQUESTED (Include Method Number and Container Preservative)											
Project Manager <b>Kirk Kessler</b>		Report CC		PRESERVATIVE											
Company/Address <b>1050 Crown Pointe Pkwy Ste. 550</b>				NUMBER OF CONTAINERS	GC/MS VOA's • 8260 • 827 • CLP	GC/MS SVOA's • 8270 • 825	GC VOA's • 8271 • 801/802	PESTICIDES • 8081 • 808	PCBs • 8082 • 808	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	Hex Chromium (216.824)	Hex Chromium (7199)	PRESERVATIVE KEY 0. NONE 1. HCL 2. HNO <sub>3</sub> 3. H <sub>2</sub> SO <sub>4</sub> 4. NaOH 5. Zn. Acetate 6. MeOH 7. NaHSO <sub>4</sub> 8. Other <b>(NH<sub>4</sub>)<sub>2</sub>SO<sub>4</sub></b>	REMARKS/ ALTERNATE DESCRIPTION
Phone # <b>(404) 315-9113</b>		Email <b>KKessler@envplanning.com</b>													
Sampler's Signature <i>[Signature]</i>		Sampler's Printed Name <b>Jeff Dennis</b>													
CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE		TIME	MATRIX										
15231-MW-8		8-19-15	1158	GW	1										
15231-MW-9		8-19-15	1210	GW	1										
15231-MW-7		8-19-15	1433	GW	1										
15231-MW-11		8-19-15	1518	GW	1										
15231-MW-10		8-19-15	1623	GW	1										
15231-Dup		8-19-15	1200	GW	1										
15231-SD-5		8-19-15	938	SD	1								X		
15231-SD-6		8-19-15	927	SD	1								X		
15231-SD-7		8-19-15	857	SD	1								X		
15231-SD-8		8-19-15	841	SD	1								X		
15231-SD-9		8-19-15	832	SD	1								X		
SPECIAL INSTRUCTIONS/COMMENTS Metals						TURNAROUND REQUIREMENTS RUSH (SURCHARGES APPLY) 1 day ___ 2 day ___ 3 day ___ 4 day ___ <b>X</b> 5 day ___			REPORT REQUIREMENTS I. Results Only II. Results + QC Summaries (LCS, DUP, MS/MSD as required) <b>X</b> III. Results + QC and Calibration Summaries <b>X</b> IV. Data Validation Report with Raw Data			INVOICE INFORMATION PO # BILL TO:			
Edata <b>X</b> Yes ___ No						REQUESTED REPORT DATE									
See QAPP <input type="checkbox"/>						STATE WHERE SAMPLES WERE COLLECTED									
RELINQUISHED BY		RECEIVED BY		RELINQUISHED BY		RECEIVED BY		RELINQUISHED BY		RECEIVED BY		RELINQUISHED BY		RECEIVED BY	
Signature <i>[Signature]</i> <b>Jeff Dennis</b>		Signature <i>[Signature]</i>		Signature		Signature		Signature		Signature		Signature		Signature	
Printed Name <b>Jeff Dennis</b>		Printed Name <b>[Name]</b>		Printed Name		Printed Name		Printed Name		Printed Name		Printed Name		Printed Name	
Firm <b>PPC</b>		Firm <b>ALS</b>		Firm		Firm		Firm		Firm		Firm		Firm	
Date/Time <b>8-19-15 1920</b>		Date/Time <b>8/20/15 0830</b>		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time	

**R1506803 5**  
Environmental Planning Specialists  
PPC





# Cooler Receipt and Preservation Check Form

Project/Client EPS Folder Number R15-6803

Cooler received on 8/20/15 by: STJ COURIER: ALS UPS ~~FEDEX~~ VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
2	Custody papers properly completed (ink, signed)?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
3	Did all bottles arrive in good condition (unbroken)?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
4	Circle: <del>Wet Ice</del> Dry Ice Gel packs present?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N

5a	Perchlorate samples have required headspace?	<input type="checkbox"/> Y	<input type="checkbox"/> N	<input checked="" type="checkbox"/> NA
5b	Did VOA vials, Alk, or Sulfide have sig* bubbles?	<input type="checkbox"/> Y	<input type="checkbox"/> N	<input checked="" type="checkbox"/> NA
6	Where did the bottles originate?	<u>ALS/ROC CLIENT</u>		
7	Soil VOA received as:	Bulk	Encore	5035set <input checked="" type="checkbox"/> NA

8. Temperature Readings Date: 8/20/15 Time: 0730 ID: IR#3 IR#5 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>2.8</u>						
Correction Factor (°C)	<u>-</u>						
Corrected Temp (°C)	<u>2.8</u>						
Within 0-6°C?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> Y

If out of Temperature, note packing/ice condition: Ice melted Poorly Packed Same Day Rule

& Client Approval to Run Samples: Standing Approval Client aware at drop-off Client notified by:                     

All samples held in storage location: 1200 by STJ on 8/20/15 at 0736  
5035 samples placed in storage location:                      by                      on                      at                     

PC Secondary Review:                                           8/20/15

Cooler Breakdown: Date: 9/20/15 Time: 1253 by: MDT

- Were all bottle labels complete (i.e. analysis, preservation, etc.)?  YES  NO
- Did all bottle labels and tags agree with custody papers?  YES  NO
- Were correct containers used for the tests indicated?  YES  NO
- Air Samples: Cassettes / Tubes Intact  Canisters Pressurized  Tedlar® Bags Inflated  N/A

Explain any discrepancies:                     

pH	Reagent	Yes	No	Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH	
≥12	NaOH									Yes=All samples OK
≤2	HNO <sub>3</sub>									No=Samples were preserved at The lab as listed
≤2	H <sub>2</sub> SO <sub>4</sub>									
<4	NaHSO <sub>4</sub>									
Residual Chlorine (-)	For CN Phenol and 522			If +, contact PM to add Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (CN), ascorbic (phenol).						PM OK to Adjust:
	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	-	-							**Not to be tested before analysis - pH tested and recorded by VOAs on a separate worksheet
	Zn Acetate	-	-							
	HCl	**	**							

Bottle lot numbers: 060815-2AA0, 062215-1BUS Buffer lot: 80635 Exp: 4/16  
Other Comments:                     

2.15-6LL (6)  
8/19-  
1200-1623

PC Secondary Review:                                           8/20/15 \*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter

ALS ENVIRONMENTAL

Chain of Custody Report

Client: Environmental Planning Specialists  
 Project: PPC

Service Request: R1506803

Bottle ID	Tests	Date	Time	Sample Location / User	Disposed On
R1506803-001.01	218.6 LL	8/18/15	1109	SMO / JSEWARD	
		8/18/15	1109	R-002 / JSEWARD	
		8/18/15	1113	In Lab / CWOODS	
		8/18/15	1731	In Lab / CWOODS	
R1506803-002.01	218.6 LL	8/18/15	1109	SMO / JSEWARD	
		8/18/15	1109	R-002 / JSEWARD	
		8/18/15	1113	In Lab / CWOODS	
		8/18/15	1731	In Lab / CWOODS	
R1506803-003.01	218.6 LL	8/18/15	1109	SMO / JSEWARD	
		8/18/15	1109	R-002 / JSEWARD	
		8/18/15	1113	In Lab / CWOODS	
		8/18/15	1731	In Lab / CWOODS	
R1506803-004.01	218.6 LL	8/18/15	1109	SMO / JSEWARD	
		8/18/15	1109	R-002 / JSEWARD	
		8/18/15	1113	In Lab / CWOODS	
		8/18/15	1731	In Lab / CWOODS	
R1506803-005.01	218.6 LL	8/18/15	1109	SMO / JSEWARD	
		8/18/15	1109	R-002 / JSEWARD	
		8/18/15	1113	In Lab / CWOODS	
		8/18/15	1731	In Lab / CWOODS	
R1506803-006.01	ALS SOP, 7199	8/18/15	1109	SMO / JSEWARD	
		8/18/15	1109	R-002 / JSEWARD	
		8/24/15	1009	In Lab / KWONG	
		8/24/15	1326	R-002 / KWONG	
		8/27/15	1611	In Lab / LDOLGOS	
		8/27/15	1711	R-002 / KWONG	
R1506803-007.01	7199, ALS SOP	8/18/15	1109	SMO / JSEWARD	
		8/18/15	1109	R-002 / JSEWARD	
		8/24/15	1009	In Lab / KWONG	
		8/24/15	1326	R-002 / KWONG	

**ALS ENVIRONMENTAL**  
**Chain of Custody Report**

**Client:** Environmental Planning Specialists  
**Project:** PPC

**Service Request:** R1506803

Bottle ID	Tests	Date	Time	Sample Location / User	Disposed On
		8/27/15	1611	In Lab / LDOLGOS	
		8/27/15	1711	R-002 / KWONG	
R1506803-008.01	ALS SOP, 7199				
		8/18/15	1109	SMO / JSEWARD	
		8/18/15	1109	R-002 / JSEWARD	
		8/24/15	1009	In Lab / KWONG	
		8/24/15	1326	R-002 / KWONG	
		8/27/15	1611	In Lab / LDOLGOS	
		8/27/15	1711	R-002 / KWONG	
R1506803-009.01	7199, ALS SOP				
		8/18/15	1109	SMO / JSEWARD	
		8/18/15	1109	R-002 / JSEWARD	
		8/24/15	1009	In Lab / KWONG	
		8/24/15	1326	R-002 / KWONG	
		8/27/15	1611	In Lab / LDOLGOS	
		8/27/15	1711	R-002 / KWONG	
R1506803-010.01	ALS SOP, 7199				
		8/18/15	1109	SMO / JSEWARD	
		8/18/15	1109	R-002 / JSEWARD	
		8/24/15	1009	In Lab / KWONG	
		8/24/15	1326	R-002 / KWONG	
		8/27/15	1611	In Lab / LDOLGOS	
		8/27/15	1711	R-002 / KWONG	
R1506803-011.01	7199, ALS SOP				
		8/18/15	1109	SMO / JSEWARD	
		8/18/15	1109	R-002 / JSEWARD	
		8/24/15	1009	In Lab / KWONG	
		8/24/15	1327	R-002 / KWONG	
		8/27/15	1611	In Lab / LDOLGOS	
		8/27/15	1711	R-002 / KWONG	
R1506803-012.01	ALS SOP, 7199				
		8/18/15	1109	SMO / JSEWARD	
		8/18/15	1109	R-002 / JSEWARD	
		8/24/15	1008	In Lab / KWONG	
		8/24/15	1327	R-002 / KWONG	
		8/27/15	1611	In Lab / LDOLGOS	
		8/27/15	1711	R-002 / KWONG	
R1506803-013.01	ALS SOP, 7199				



# ALS ENVIRONMENTAL

## Chain of Custody Report

Client: Environmental Planning Specialists  
 Project: PPC

Service Request: R1506803

Bottle ID	Tests	Date	Time	Sample Location / User	Disposed On
		8/18/15	1109	SMO / JSEWARD	
		8/18/15	1109	R-002 / JSEWARD	
		8/24/15	1008	In Lab / KWONG	
		8/24/15	1327	R-002 / KWONG	
		8/27/15	1611	In Lab / LDOLGOS	
		8/27/15	1711	R-002 / KWONG	
<hr/>					
R1506803-014.01	7199, ALS SOP				
		8/18/15	1109	SMO / JSEWARD	
		8/18/15	1109	R-002 / JSEWARD	
		8/24/15	1008	In Lab / KWONG	
		8/24/15	1327	R-002 / KWONG	
		8/27/15	1611	In Lab / LDOLGOS	
		8/27/15	1711	R-002 / KWONG	
<hr/>					
R1506803-015.01	ALS SOP, 7199				
		8/18/15	1109	SMO / JSEWARD	
		8/18/15	1109	R-002 / JSEWARD	
		8/24/15	1009	In Lab / KWONG	
		8/24/15	1326	R-002 / KWONG	
		8/27/15	1611	In Lab / LDOLGOS	
		8/27/15	1711	R-002 / KWONG	
<hr/>					
R1506803-016.01	ALS SOP, 7199				
		8/19/15	0803	SMO / GLAFORCE	
		8/19/15	0819	R-002 / JSEWARD	
		8/24/15	1009	In Lab / KWONG	
		8/24/15	1326	R-002 / KWONG	
		8/27/15	1611	In Lab / LDOLGOS	
		8/27/15	1711	R-002 / KWONG	
<hr/>					
R1506803-017.01	ALS SOP, 7199				
		8/19/15	0803	SMO / GLAFORCE	
		8/19/15	0819	R-002 / JSEWARD	
		8/24/15	1009	In Lab / KWONG	
		8/24/15	1327	R-002 / KWONG	
		8/27/15	1611	In Lab / LDOLGOS	
		8/27/15	1711	R-002 / KWONG	
<hr/>					
R1506803-018.01	ALS SOP, 7199				
		8/19/15	0803	SMO / GLAFORCE	
		8/19/15	0819	R-002 / JSEWARD	
		8/24/15	1008	In Lab / KWONG	
		8/24/15	1327	R-002 / KWONG	

ALS ENVIRONMENTAL

Chain of Custody Report

Client: Environmental Planning Specialists  
 Project: PPC

Service Request: R1506803

Bottle ID	Tests	Date	Time	Sample Location / User	Disposed On
		8/27/15	1611	In Lab / LDOLGOS	
		8/27/15	1711	R-002 / KWONG	
R1506803-019.01	218.6 LL				
		8/19/15	0803	SMO / GLAFORCE	
		8/19/15	0819	R-002 / JSEWARD	
		8/31/15	1115	In Lab / CWOODS	
		8/31/15	1116	In Lab / CWOODS	
		8/31/15	1709	R-002 / CWOODS	
R1506803-020.01	218.6 LL				
		8/19/15	0803	SMO / GLAFORCE	
		8/19/15	0819	R-002 / JSEWARD	
		8/31/15	1115	In Lab / CWOODS	
		8/31/15	1116	In Lab / CWOODS	
		8/31/15	1709	R-002 / CWOODS	
R1506803-021.01	218.6 LL				
		8/19/15	0803	SMO / GLAFORCE	
		8/19/15	0819	R-002 / JSEWARD	
		8/31/15	1115	In Lab / CWOODS	
		8/31/15	1116	In Lab / CWOODS	
		8/31/15	1709	R-002 / CWOODS	
R1506803-022.01	218.6 LL				
		8/20/15	0758	SMO / GLAFORCE	
		8/20/15	1256	R-002 / GESMERIAN	
		8/31/15	1115	In Lab / CWOODS	
		8/31/15	1116	In Lab / CWOODS	
		8/31/15	1709	R-002 / CWOODS	
R1506803-023.01	218.6 LL				
		8/20/15	0758	SMO / GLAFORCE	
		8/20/15	1256	R-002 / GESMERIAN	
		8/31/15	1115	In Lab / CWOODS	
		8/31/15	1116	In Lab / CWOODS	
		8/31/15	1709	R-002 / CWOODS	
R1506803-024.01	218.6 LL				
		8/20/15	0758	SMO / GLAFORCE	
		8/20/15	1256	R-002 / GESMERIAN	
		8/31/15	1115	In Lab / CWOODS	
		8/31/15	1116	In Lab / CWOODS	
		8/31/15	1709	R-002 / CWOODS	

ALS ENVIRONMENTAL

Chain of Custody Report

Client: Environmental Planning Specialists  
 Project: PPC

Service Request: R1506803

Bottle ID	Tests	Date	Time	Sample Location / User	Disposed On
R1506803-025.01	218.6 LL	8/20/15	0758	SMO / GLAFORCE	
		8/20/15	1256	R-002 / GESMERIAN	
		8/31/15	1116	In Lab / CWOODS	
		8/31/15	1709	R-002 / CWOODS	
R1506803-026.01	218.6 LL	8/20/15	0758	SMO / GLAFORCE	
		8/20/15	1256	R-002 / GESMERIAN	
		8/31/15	1116	In Lab / CWOODS	
		8/31/15	1709	R-002 / CWOODS	
R1506803-027.01	218.6 LL	8/20/15	0758	SMO / GLAFORCE	
		8/20/15	1256	R-002 / GESMERIAN	
		8/31/15	1116	In Lab / CWOODS	
		8/31/15	1709	R-002 / CWOODS	
R1506803-028.01	7199, ALS SOP	8/20/15	0758	SMO / GLAFORCE	
		8/20/15	1256	R-002 / GESMERIAN	
		8/24/15	1008	In Lab / KWONG	
		8/24/15	1327	R-002 / KWONG	
		8/27/15	1611	In Lab / LDOLGOS	
		8/27/15	1711	R-002 / KWONG	
R1506803-029.01	7199, ALS SOP	8/20/15	0758	SMO / GLAFORCE	
		8/20/15	1256	R-002 / GESMERIAN	
		8/24/15	1008	In Lab / KWONG	
		8/24/15	1327	R-002 / KWONG	
		8/27/15	1611	In Lab / LDOLGOS	
		8/27/15	1711	R-002 / KWONG	
R1506803-030.01	ALS SOP, 7199	8/20/15	0758	SMO / GLAFORCE	
		8/20/15	1256	R-002 / GESMERIAN	
		8/24/15	1008	In Lab / KWONG	
		8/24/15	1327	R-002 / KWONG	
		8/27/15	1611	In Lab / LDOLGOS	
		8/27/15	1711	R-002 / KWONG	
R1506803-031.01					

**ALS ENVIRONMENTAL**  
**Chain of Custody Report**

**Client:** Environmental Planning Specialists  
**Project:** PPC

**Service Request:** R1506803

Bottle ID	Tests	Date	Time	Sample Location / User	Disposed On
	ALS SOP, 7199	8/20/15	0758	SMO / GLAFORCE	
		8/20/15	1256	R-002 / GESMERIAN	
		8/24/15	1008	In Lab / KWONG	
		8/24/15	1327	R-002 / KWONG	
		8/27/15	1611	In Lab / LDOLGOS	
		8/27/15	1711	R-002 / KWONG	
R1506803-032.01	ALS SOP, 7199	8/20/15	0758	SMO / GLAFORCE	
		8/20/15	1256	R-002 / GESMERIAN	
		8/24/15	1008	In Lab / KWONG	
		8/24/15	1327	R-002 / KWONG	
		8/27/15	1611	In Lab / LDOLGOS	
		8/27/15	1711	R-002 / KWONG	



# GENERAL CHEMISTRY DATA

**ALS Environmental - Rochester, NY**  
1565 Jefferson Rd, Bldg. 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)

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ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Environmental Planning Specialists  
Project: PPC  
Sample Matrix: Water  
Sample Name: 15229-MW-6  
Lab Code: R1506803-001

Service Request: R1506803  
Date Collected: 8/17/15 1055  
Date Received: 8/18/15

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6 LL	0.020 U	µg/L	0.020	1	NA	8/18/15 13:31	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Environmental Planning Specialists  
 Project: PPC  
 Sample Matrix: Water  
 Sample Name: 15229-MW-2  
 Lab Code: R1506803-002

Service Request: R1506803  
 Date Collected: 8/17/15 1500  
 Date Received: 8/18/15

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6 LL	0.020	U	µg/L	0.020	1	NA	8/18/15 13:43	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Environmental Planning Specialists  
 Project: PPC  
 Sample Matrix: Water  
 Sample Name: 15229-MW-1  
 Lab Code: R1506803-003

Service Request: R1506803  
 Date Collected: 8/17/15 1528  
 Date Received: 8/18/15

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6 LL	0.020 U	µg/L	0.020	1	NA	8/18/15 13:55	



ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Environmental Planning Specialists  
Project: PPC  
Sample Matrix: Water  
Sample Name: 15229-MW-3  
Lab Code: R1506803-004

Service Request: R1506803  
Date Collected: 8/17/15 17:13  
Date Received: 8/18/15

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6 LL	0.020	U	µg/L	0.020	1	NA	8/18/15 14:07	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Environmental Planning Specialists  
Project: PPC  
Sample Matrix: Water  
Sample Name: 15229-MW-4  
Lab Code: R1506803-005

Service Request: R1506803  
Date Collected: 8/17/15 1743  
Date Received: 8/18/15

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6 LL	0.020	U	µg/L	0.020	1	NA	8/18/15 14:19	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Soil  
**Sample Name:** 15229-SB-25-2  
**Lab Code:** R1506803-006

**Service Request:** R1506803  
**Date Collected:** 8/17/15 1009  
**Date Received:** 8/18/15

**Basis:** As Received

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Total Solids	ALS SOP	82.6	Percent		1	NA	8/24/15 10:38	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Environmental Planning Specialists  
 Project: PPC  
 Sample Matrix: Soil  
 Sample Name: 15229-SB-25-2  
 Lab Code: R1506803-006

Service Request: R1506803  
 Date Collected: 8/17/15 1009  
 Date Received: 8/18/15

Basis: Dry  
 Percent Solids: 82.6

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent	7199	0.48 U	mg/Kg	0.48	1	8/27/15	8/30/15 14:30	
Chromium, Hexavalent	7199	0.48 U	mg/Kg	0.48	1	8/27/15	8/30/15 14:22	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Soil  
**Sample Name:** 15229-SB-23-2  
**Lab Code:** R1506803-007

**Service Request:** R1506803  
**Date Collected:** 8/17/15 1101  
**Date Received:** 8/18/15

**Basis:** As Received

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Total Solids	ALS SOP	91.3	Percent		1	NA	8/24/15 10:38	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Environmental Planning Specialists  
 Project: PPC  
 Sample Matrix: Soil  
 Sample Name: 15229-SB-23-2  
 Lab Code: R1506803-007

Service Request: R1506803  
 Date Collected: 8/17/15 1101  
 Date Received: 8/18/15

Basis: Dry  
 Percent Solids: 91.3

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent	7199	0.43 U	mg/Kg	0.43	1	8/27/15	8/30/15 14:46	
Chromium, Hexavalent	7199	0.43 U	mg/Kg	0.43	1	8/27/15	8/30/15 14:37	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Soil  
**Sample Name:** 15229-SB-19-2  
**Lab Code:** R1506803-008

**Service Request:** R1506803  
**Date Collected:** 8/17/15 1336  
**Date Received:** 8/18/15

**Basis:** As Received

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Total Solids	ALS SOP	83.3	Percent		1	NA	8/24/15 10:38	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Environmental Planning Specialists  
 Project: PPC  
 Sample Matrix: Soil  
 Sample Name: 15229-SB-19-2  
 Lab Code: R1506803-008

Service Request: R1506803  
 Date Collected: 8/17/15 1336  
 Date Received: 8/18/15

Basis: Dry  
 Percent Solids: 83.3

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent	7199	1.22	mg/Kg	0.47	1	8/27/15	8/29/15 11:53	
Chromium, Hexavalent	7199	1.25	mg/Kg	0.47	1	8/27/15	8/29/15 11:44	



ALS Group USA, Corp. dba ALS Environmental

Analytical Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Soil  
**Sample Name:** 15229-SB-24-2  
**Lab Code:** R1506803-009

**Service Request:** R1506803  
**Date Collected:** 8/17/15 1302  
**Date Received:** 8/18/15

**Basis:** As Received

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Total Solids	ALS SOP	88.4	Percent		1	NA	8/24/15 10:38	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Soil  
**Sample Name:** 15229-SB-24-2  
**Lab Code:** R1506803-009

**Service Request:** R1506803  
**Date Collected:** 8/17/15 1302  
**Date Received:** 8/18/15

**Basis:** Dry  
**Percent Solids:** 88.4

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent	7199	0.45	U	mg/Kg	0.45	1	8/27/15	8/29/15 13:31	
Chromium, Hexavalent	7199	0.45	U	mg/Kg	0.45	1	8/27/15	8/29/15 13:23	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Soil  
**Sample Name:** 15229-SB-22-2  
**Lab Code:** R1506803-010

**Service Request:** R1506803  
**Date Collected:** 8/17/15 1317  
**Date Received:** 8/18/15

**Basis:** As Received

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Total Solids	ALS SOP	88.5	Percent		1	NA	8/24/15 10:38	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Environmental Planning Specialists  
 Project: PPC  
 Sample Matrix: Soil  
 Sample Name: 15229-SB-22-2  
 Lab Code: R1506803-010

Service Request: R1506803  
 Date Collected: 8/17/15 1317  
 Date Received: 8/18/15

Basis: Dry  
 Percent Solids: 88.5

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent	7199	0.44 U	mg/Kg	0.44	1	8/27/15	8/29/15 13:47	
Chromium, Hexavalent	7199	0.44 U	mg/Kg	0.44	1	8/27/15	8/29/15 13:38	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Soil  
**Sample Name:** 15229-SB-21-2  
**Lab Code:** R1506803-011

**Service Request:** R1506803  
**Date Collected:** 8/17/15 1324  
**Date Received:** 8/18/15

**Basis:** As Received

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Total Solids	ALS SOP	87.5	Percent		1	NA	8/24/15 10:38	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Environmental Planning Specialists  
 Project: PPC  
 Sample Matrix: Soil  
 Sample Name: 15229-SB-21-2  
 Lab Code: R1506803-011

Service Request: R1506803  
 Date Collected: 8/17/15 1324  
 Date Received: 8/18/15

Basis: Dry  
 Percent Solids: 87.5

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent	7199	0.45 U	mg/Kg	0.45	1	8/27/15	8/29/15 14:03	
Chromium, Hexavalent	7199	0.45 U	mg/Kg	0.45	1	8/27/15	8/29/15 13:54	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Environmental Planning Specialists  
Project: PPC  
Sample Matrix: Soil  
Sample Name: 15229-SB-18-2  
Lab Code: R1506803-012

Service Request: R1506803  
Date Collected: 8/17/15 1526  
Date Received: 8/18/15

Basis: As Received

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Total Solids	ALS SOP	78.0	Percent		1	NA	8/24/15 10:38	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Soil  
**Sample Name:** 15229-SB-18-2  
**Lab Code:** R1506803-012

**Service Request:** R1506803  
**Date Collected:** 8/17/15 1526  
**Date Received:** 8/18/15

**Basis:** Dry  
**Percent Solids:** 78.0

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent	7199	1.13	mg/Kg	0.50	1	8/27/15	8/29/15 14:35	
Chromium, Hexavalent	7199	1.13	mg/Kg	0.50	1	8/27/15	8/29/15 14:27	



ALS Group USA, Corp. dba ALS Environmental

Analytical Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Soil  
**Sample Name:** 15229-SB-14-2  
**Lab Code:** R1506803-013

**Service Request:** R1506803  
**Date Collected:** 8/17/15 1607  
**Date Received:** 8/18/15

**Basis:** As Received

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Total Solids	ALS SOP	85.3		Percent		1	NA	8/24/15 10:38	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Environmental Planning Specialists  
 Project: PPC  
 Sample Matrix: Soil  
 Sample Name: 15229-SB-14-2  
 Lab Code: R1506803-013

Service Request: R1506803  
 Date Collected: 8/17/15 1607  
 Date Received: 8/18/15

Basis: Dry  
 Percent Solids: 85.3

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent	7199	0.47 U	mg/Kg	0.47	1	8/27/15	8/29/15 14:42	
Chromium, Hexavalent	7199	0.47 U	mg/Kg	0.47	1	8/27/15	8/29/15 14:51	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Environmental Planning Specialists  
Project: PPC  
Sample Matrix: Soil  
Sample Name: 15229-SB-13-2  
Lab Code: R1506803-014

Service Request: R1506803  
Date Collected: 8/17/15 1638  
Date Received: 8/18/15

Basis: As Received

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Total Solids	ALS SOP	83.7	Percent		1	NA	8/24/15 10:38	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Environmental Planning Specialists  
 Project: PPC  
 Sample Matrix: Soil  
 Sample Name: 15229-SB-13-2  
 Lab Code: R1506803-014

Service Request: R1506803  
 Date Collected: 8/17/15 1638  
 Date Received: 8/18/15

Basis: Dry  
 Percent Solids: 83.7

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent	7199	0.91	mg/Kg	0.48	1	8/27/15	8/29/15 14:58	
Chromium, Hexavalent	7199	0.91	mg/Kg	0.48	1	8/27/15	8/29/15 15:06	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Soil  
**Sample Name:** 15229-SB-20-2  
**Lab Code:** R1506803-015

**Service Request:** R1506803  
**Date Collected:** 8/17/15 1753  
**Date Received:** 8/18/15

**Basis:** As Received

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Total Solids	ALS SOP	78.9	Percent		1	NA	8/24/15 10:38	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Environmental Planning Specialists  
 Project: PPC  
 Sample Matrix: Soil  
 Sample Name: 15229-SB-20-2  
 Lab Code: R1506803-015

Service Request: R1506803  
 Date Collected: 8/17/15 1753  
 Date Received: 8/18/15

Basis: Dry  
 Percent Solids: 78.9

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent	7199	0.69	mg/Kg	0.50	1	8/27/15	8/29/15 15:13	
Chromium, Hexavalent	7199	0.70	mg/Kg	0.50	1	8/27/15	8/29/15 15:22	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Soil  
**Sample Name:** 15230-SB-15-2  
**Lab Code:** R1506803-016

**Service Request:** R1506803  
**Date Collected:** 8/18/15 1414  
**Date Received:** 8/19/15

**Basis:** As Received

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Total Solids	ALS SOP	87.5	Percent		1	NA	8/24/15 10:38	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Environmental Planning Specialists  
 Project: PPC  
 Sample Matrix: Soil  
 Sample Name: 15230-SB-15-2  
 Lab Code: R1506803-016

Service Request: R1506803  
 Date Collected: 8/18/15 1414  
 Date Received: 8/19/15

Basis: Dry  
 Percent Solids: 87.5

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent	7199	0.63	mg/Kg	0.45	1	8/27/15	8/29/15 15:29	
Chromium, Hexavalent	7199	0.62	mg/Kg	0.45	1	8/27/15	8/29/15 15:37	



ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Environmental Planning Specialists  
Project: PPC  
Sample Matrix: Soil  
Sample Name: 15230-SB-16-2  
Lab Code: R1506803-017

Service Request: R1506803  
Date Collected: 8/18/15 1431  
Date Received: 8/19/15

Basis: As Received

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Total Solids	ALS SOP	81.7	Percent		1	NA	8/24/15 10:38	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Environmental Planning Specialists  
 Project: PPC  
 Sample Matrix: Soil  
 Sample Name: 15230-SB-16-2  
 Lab Code: R1506803-017

Service Request: R1506803  
 Date Collected: 8/18/15 1431  
 Date Received: 8/19/15

Basis: Dry  
 Percent Solids: 81.7

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent	7199	0.60	mg/Kg	0.49	1	8/27/15	8/29/15 16:03	
Chromium, Hexavalent	7199	0.61	mg/Kg	0.49	1	8/27/15	8/29/15 16:11	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Environmental Planning Specialists  
Project: PPC  
Sample Matrix: Soil  
Sample Name: 15230-SB-17-2  
Lab Code: R1506803-018

Service Request: R1506803  
Date Collected: 8/18/15 1446  
Date Received: 8/19/15

Basis: As Received

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Total Solids	ALS SOP	77.5	Percent		1	NA	8/24/15 10:38	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Environmental Planning Specialists  
 Project: PPC  
 Sample Matrix: Soil  
 Sample Name: 15230-SB-17-2  
 Lab Code: R1506803-018

Service Request: R1506803  
 Date Collected: 8/18/15 1446  
 Date Received: 8/19/15

Basis: Dry  
 Percent Solids: 77.5

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent	7199	0.58	mg/Kg	0.51	1	8/27/15	8/29/15 16:27	
Chromium, Hexavalent	7199	0.59	mg/Kg	0.51	1	8/27/15	8/29/15 16:18	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Environmental Planning Specialists  
Project: PPC  
Sample Matrix: Water  
Sample Name: 15230-MW-5  
Lab Code: R1506803-019

Service Request: R1506803  
Date Collected: 8/18/15 1108  
Date Received: 8/19/15

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6 LL	0.038	µg/L	0.020	1	NA	8/31/15 13:34	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Water  
**Sample Name:** 15230-MW-12  
**Lab Code:** R1506803-020

**Service Request:** R1506803  
**Date Collected:** 8/18/15 1448  
**Date Received:** 8/19/15

**Basis:** NA

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6 LL	0.049	µg/L	0.020	1	NA	8/31/15 11:34	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Water  
**Sample Name:** 15230-MW-13  
**Lab Code:** R1506803-021

**Service Request:** R1506803  
**Date Collected:** 8/18/15 1653  
**Date Received:** 8/19/15

**Basis:** NA

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6 LL	0.043	µg/L	0.020	1	NA	8/31/15 11:46	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Water  
**Sample Name:** 15231-MW-8  
**Lab Code:** R1506803-022

**Service Request:** R1506803  
**Date Collected:** 8/19/15 11:58  
**Date Received:** 8/20/15

**Basis:** NA

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6 LL	0.020 U	µg/L	0.020	1	NA	8/31/15 11:58	



ALS Group USA, Corp. dba ALS Environmental

Analytical Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Water  
**Sample Name:** 15231-MW-9  
**Lab Code:** R1506803-023

**Service Request:** R1506803  
**Date Collected:** 8/19/15 1210  
**Date Received:** 8/20/15

**Basis:** NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6 LL	0.020	U	µg/L	0.020	1	NA	8/31/15 12:10	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Environmental Planning Specialists  
 Project: PPC  
 Sample Matrix: Water  
 Sample Name: 15231-MW-7  
 Lab Code: R1506803-024

Service Request: R1506803  
 Date Collected: 8/19/15 1433  
 Date Received: 8/20/15

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6 LL	0.020	U	µg/L	0.020	1	NA	8/31/15 12:22	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Environmental Planning Specialists  
 Project: PPC  
 Sample Matrix: Water  
 Sample Name: 15231-MW-11  
 Lab Code: R1506803-025

Service Request: R1506803  
 Date Collected: 8/19/15 15:18  
 Date Received: 8/20/15

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6 LL	0.058	µg/L	0.020	1	NA	8/31/15 12:34	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Water  
**Sample Name:** 15231-MW-10  
**Lab Code:** R1506803-026

**Service Request:** R1506803  
**Date Collected:** 8/19/15 1623  
**Date Received:** 8/20/15

**Basis:** NA

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6 LL	0.068	µg/L	0.020	1	NA	8/31/15 12:46	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Environmental Planning Specialists  
Project: PPC  
Sample Matrix: Water  
Sample Name: 15231-DUP  
Lab Code: R1506803-027

Service Request: R1506803  
Date Collected: 8/19/15 1200  
Date Received: 8/20/15

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6 LL	0.066	µg/L	0.020	1	NA	8/31/15 12:58	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Soil  
**Sample Name:** 15231-SD-5  
**Lab Code:** R1506803-028

**Service Request:** R1506803  
**Date Collected:** 8/19/15 0938  
**Date Received:** 8/20/15

**Basis:** As Received

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Total Solids	ALS SOP	33.6	Percent		1	NA	8/24/15 10:38	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Soil  
**Sample Name:** 15231-SD-5  
**Lab Code:** R1506803-028

**Service Request:** R1506803  
**Date Collected:** 8/19/15 0938  
**Date Received:** 8/20/15

**Basis:** Dry  
**Percent Solids:** 33.6

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent	7199	10.7	mg/Kg	1.1	1	8/27/15	8/29/15 16:34	
Chromium, Hexavalent	7199	10.7	mg/Kg	1.1	1	8/27/15	8/29/15 16:43	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Soil  
**Sample Name:** 15231-SD-6  
**Lab Code:** R1506803-029

**Service Request:** R1506803  
**Date Collected:** 8/19/15 0927  
**Date Received:** 8/20/15

**Basis:** As Received

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Total Solids	ALS SOP	37.2	Percent		1	NA	8/24/15 10:38	



ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Environmental Planning Specialists  
 Project: PPC  
 Sample Matrix: Soil  
 Sample Name: 15231-SD-6  
 Lab Code: R1506803-029

Service Request: R1506803  
 Date Collected: 8/19/15 0927  
 Date Received: 8/20/15

Basis: Dry  
 Percent Solids: 37.2

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent	7199	7.1	mg/Kg	1.1	1	8/27/15	8/29/15 16:50	
Chromium, Hexavalent	7199	7.2	mg/Kg	1.1	1	8/27/15	8/29/15 16:58	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Soil  
**Sample Name:** 15231-SD-7  
**Lab Code:** R1506803-030

**Service Request:** R1506803  
**Date Collected:** 8/19/15 0857  
**Date Received:** 8/20/15

**Basis:** As Received

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Total Solids	ALS SOP	39.2	Percent		1	NA	8/24/15 10:38	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Environmental Planning Specialists  
 Project: PPC  
 Sample Matrix: Soil  
 Sample Name: 15231-SD-7  
 Lab Code: R1506803-030

Service Request: R1506803  
 Date Collected: 8/19/15 0857  
 Date Received: 8/20/15  
 Basis: Dry  
 Percent Solids: 39.2

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent	7199	0.98	U	mg/Kg	0.98	1	8/27/15	8/29/15 17:05	
Chromium, Hexavalent	7199	0.98	U	mg/Kg	0.98	1	8/27/15	8/29/15 17:14	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Soil  
**Sample Name:** 15231-SD-8  
**Lab Code:** R1506803-031

**Service Request:** R1506803  
**Date Collected:** 8/19/15 0841  
**Date Received:** 8/20/15

**Basis:** As Received

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Total Solids	ALS SOP	68.7	Percent		1	NA	8/24/15 10:38	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: Environmental Planning Specialists  
 Project: PPC  
 Sample Matrix: Soil  
 Sample Name: 15231-SD-8  
 Lab Code: R1506803-031

Service Request: R1506803  
 Date Collected: 8/19/15 0841  
 Date Received: 8/20/15

Basis: Dry  
 Percent Solids: 68.7

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent	7199	0.58	U	mg/Kg	0.58	1	8/27/15	8/29/15 17:38	
Chromium, Hexavalent	7199	0.58	U	mg/Kg	0.58	1	8/27/15	8/29/15 17:46	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Soil  
**Sample Name:** 15231-SD-9  
**Lab Code:** R1506803-032

**Service Request:** R1506803  
**Date Collected:** 8/19/15 0832  
**Date Received:** 8/20/15

**Basis:** As Received

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Total Solids	ALS SOP	40.3	Percent		1	NA	8/24/15 10:38	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Soil  
**Sample Name:** 15231-SD-9  
**Lab Code:** R1506803-032

**Service Request:** R1506803  
**Date Collected:** 8/19/15 0832  
**Date Received:** 8/20/15

**Basis:** Dry  
**Percent Solids:** 40.3

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent	7199	0.96 U	mg/Kg	0.96	1	8/27/15	8/29/15 17:53	
Chromium, Hexavalent	7199	0.96 U	mg/Kg	0.96	1	8/27/15	8/29/15 18:02	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Water  
**Sample Name:** Method Blank  
**Lab Code:** R1506803-MB1

**Service Request:** R1506803  
**Date Collected:** NA  
**Date Received:** NA  
**Basis:** NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6 LL	0.020	U	µg/L	0.020	1	NA	8/18/15 11:38	



ALS Group USA, Corp. dba ALS Environmental

Analytical Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Water  
**Sample Name:** Method Blank  
**Lab Code:** R1506803-MB2

**Service Request:** R1506803  
**Date Collected:** NA  
**Date Received:** NA  
**Basis:** NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6 LL	0.020	U	µg/L	0.020	1	NA	8/31/15 10:46	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Soil  
**Sample Name:** Method Blank  
**Lab Code:** R1506803-MB3

**Service Request:** R1506803  
**Date Collected:** NA  
**Date Received:** NA

**Basis:** Dry

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent	7199	0.40 U	mg/Kg	0.40	1	8/27/15	8/29/15 11:22	
Chromium, Hexavalent	7199	0.40 U	mg/Kg	0.40	1	8/27/15	8/29/15 11:13	

Client: Environmental Planning Specialists  
 Project: PPC  
 Sample Matrix: Soil

Service Request: R1506803  
 Date Analyzed: 8/29/15

Lab Control Sample Summary  
 General Chemistry Parameters

Units: mg/Kg  
 Basis: Dry

Lab Control Sample  
 R1506803-LCS1

Analyte Name	Method	Result	Spike Amount	% Rec	% Rec Limits
Chromium, Hexavalent	7199	669	656	102	80 - 120
Chromium, Hexavalent	7199	665	656	101	80 - 120

Results flagged with an asterisk (\*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Environmental Planning Specialists  
 Project: PPC  
 Sample Matrix: Water

Service Request: R1506803  
 Date Analyzed: 8/18/15

**Lab Control Sample Summary  
 General Chemistry Parameters**

Units: µg/L  
 Basis: NA

Lab Control Sample  
 R1506803-LCS2

Analyte Name	Method	Result	Spike Amount	% Rec	% Rec Limits
Chromium, Hexavalent, Dissolved	218.6 LL	0.198	0.200	99	90 - 110

Results flagged with an asterisk (\*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Environmental Planning Specialists  
Project: PPC  
Sample Matrix: Water

Service Request: R1506803  
Date Analyzed: 8/31/15

Lab Control Sample Summary  
General Chemistry Parameters

Units: µg/L  
Basis: NA

Lab Control Sample  
R1506803-LCS3

Analyte Name	Method	Result	Spike Amount	% Rec	% Rec Limits
Chromium, Hexavalent, Dissolved	218.6 LL	0.203	0.200	101	90 - 110

Results flagged with an asterisk (\*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Environmental Planning Specialists  
 Project: PPC

Service Request: R1506803

Continuing Calibration Verification (CCV) Summary  
 Chromium, Hexavalent

Analytical Method: 7199

Units: mg/L

	Analysis Lot	Lab Code	Date Analyzed	True Value	Measured Value	Percent Recovery	Acceptance Limits
CCV1	460058	RQ1510029-11	8/29/15 10:57	0.500	0.503	101	90 - 110
CCV2	460058	RQ1510029-11	8/29/15 10:57	0.500	0.503	101	90 - 110
CCV3	460058	RQ1510029-05	8/29/15 12:31	0.500	0.512	102	90 - 110
CCV4	460058	RQ1510029-05	8/29/15 12:31	0.500	0.512	102	90 - 110
CCV5	460058	RQ1510029-04	8/29/15 14:10	0.500	0.519	104	90 - 110
CCV6	460058	RQ1510029-04	8/29/15 14:10	0.500	0.519	104	90 - 110
CCV7	460058	RQ1510029-03	8/29/15 15:45	0.500	0.522	104	90 - 110
CCV8	460058	RQ1510029-03	8/29/15 15:45	0.500	0.522	104	90 - 110
CCV9	460058	RQ1510029-02	8/29/15 17:21	0.500	0.516	103	90 - 110
CCV10	460058	RQ1510029-02	8/29/15 17:21	0.500	0.516	103	90 - 110
CCV11	460058	RQ1510029-01	8/29/15 18:56	0.500	0.517	103	90 - 110
CCV12	460058	RQ1510029-01	8/29/15 18:56	0.500	0.517	103	90 - 110
CCV13	460058	RQ1510029-14	8/30/15 14:05	0.500	0.509	102	90 - 110
CCV14	460058	RQ1510029-14	8/30/15 14:05	0.500	0.509	102	90 - 110
CCV15	460058	RQ1510029-13	8/30/15 14:53	0.500	0.516	103	90 - 110
CCV16	460058	RQ1510029-13	8/30/15 14:53	0.500	0.516	103	90 - 110

Client: Environmental Planning Specialists  
 Project: PPC

Service Request: R1506803

Continuing Calibration Blank (CCB) Summary  
 Chromium, Hexavalent

Analytical Method: 7199

Units: mg/Kg

	Analysis Lot	Lab Code	Date Analyzed	MRL	Result	Q
CCB1	460058	RQ1510029-12	8/29/15 11:05	0.40	0.40	U
CCB2	460058	RQ1510029-12	8/29/15 11:05	0.40	0.40	U
CCB3	460058	RQ1510029-10	8/29/15 12:40	0.40	0.40	U
CCB4	460058	RQ1510029-10	8/29/15 12:40	0.40	0.40	U
CCB5	460058	RQ1510029-09	8/29/15 14:18	0.40	0.40	U
CCB6	460058	RQ1510029-09	8/29/15 14:18	0.40	0.40	U
CCB7	460058	RQ1510029-08	8/29/15 15:54	0.40	0.40	U
CCB8	460058	RQ1510029-08	8/29/15 15:54	0.40	0.40	U
CCB9	460058	RQ1510029-07	8/29/15 17:30	0.40	0.40	U
CCB10	460058	RQ1510029-07	8/29/15 17:30	0.40	0.40	U
CCB11	460058	RQ1510029-06	8/29/15 19:05	0.40	0.40	U
CCB12	460058	RQ1510029-06	8/29/15 19:05	0.40	0.40	U
CCB13	460058	RQ1510029-16	8/30/15 14:13	0.40	0.40	U
CCB14	460058	RQ1510029-16	8/30/15 14:13	0.40	0.40	U
CCB15	460058	RQ1510029-15	8/30/15 15:02	0.40	0.40	U
CCB16	460058	RQ1510029-15	8/30/15 15:02	0.40	0.40	U

Client: Environmental Planning Specialists  
 Project: PPC

Service Request: R1506803

Continuing Calibration Verification (CCV) Summary  
 Chromium, Hexavalent, Dissolved

Analytical Method: 218.6 LL

Units: µg/L

	Analysis Lot	Lab Code	Date Analyzed	True Value	Measured Value	Percent Recovery	Acceptance Limits
CCV1	458307	RQ1509479-03	8/18/15 11:26	0.500	0.501	100	95 - 105
CCV2	458307	RQ1509479-02	8/18/15 12:50	0.500	0.491	98	95 - 105
CCV3	458307	RQ1509479-01	8/18/15 14:31	0.500	0.490	98	95 - 105
CCV4	460224	RQ1510102-01	8/31/15 10:32	0.500	0.479	96	95 - 105
CCV5	460224	RQ1510102-02	8/31/15 13:10	0.500	0.493	99	95 - 105
CCV6	460224	RQ1510102-03	8/31/15 15:33	0.500	0.502	100	95 - 105



Client: Environmental Planning Specialists  
 Project: PPC

Service Request: R1506803

Continuing Calibration Blank (CCB) Summary  
 Chromium, Hexavalent, Dissolved

Analytical Method: 218.6 LL

Units: µg/L

	Analysis Lot	Lab Code	Date Analyzed	MRL	Result	Q
CCB1	458307	RQ1509479-06	8/18/15 11:38	0.020	0.020	U
CCB2	458307	RQ1509479-05	8/18/15 13:02	0.020	0.020	U
CCB3	458307	RQ1509479-04	8/18/15 14:43	0.020	0.020	U
CCB4	460224	RQ1510102-04	8/31/15 10:46	0.020	0.020	U
CCB5	460224	RQ1510102-05	8/31/15 13:22	0.020	0.020	U
CCB6	460224	RQ1510102-06	8/31/15 15:45	0.020	0.020	U

# Analytical Results Summary

Instrument Name: R-IC-08

Analyst: CWOODS

Analysis Lot: 458307 Method/Testcode: 218.6 LL/Cr6 D LL

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ1509479-03	Chromium, Hexavalent, Dissolved	CCV		Water	0.50 µg/L	10 mL	0.501 µg/L	1 ✓					8/18/15 11:26:00	N	II
RQ1509479-06	Chromium, Hexavalent, Dissolved	CCB		Water	0.00 µg/L	10 mL	0.020 µg/L	U 1 ✓	0.010	0.020			8/18/15 11:38:00	N	II
RQ1509479-07	Chromium, Hexavalent, Dissolved	MB		Water	0.00 µg/L	10 mL	0.020 µg/L	U 1 ✓	0.010	0.020			8/18/15 11:38:00	N	II
RQ1509479-08	Chromium, Hexavalent, Dissolved	LCS		Water	0.20 µg/L	10 mL	0.198 µg/L	1 ✓	0.010	0.020	99		8/18/15 11:50:00	N	II
RQ1509479-02	Chromium, Hexavalent, Dissolved	CCV		Water	0.49 µg/L	10 mL	0.491 µg/L	1 ✓					8/18/15 12:50:00	N	II
RQ1509479-05	Chromium, Hexavalent, Dissolved	CCB		Water	0.00 µg/L	10 mL	0.020 µg/L	U 1 ✓	0.010	0.020			8/18/15 13:02:00	N	II
R1506803-001	Chromium, Hexavalent, Dissolved	N/A		Water	0.00 µg/L	10 mL	0.020 µg/L	U 1 ✓	0.010	0.020			8/18/15 13:31:00	N	IV
R1506803-002	Chromium, Hexavalent, Dissolved	N/A		Water	0.00 µg/L	10 mL	0.020 µg/L	U 1 ✓	0.010	0.020			8/18/15 13:43:00	N	IV
R1506803-003	Chromium, Hexavalent, Dissolved	N/A		Water	0.00 µg/L	10 mL	0.020 µg/L	U 1 ✓	0.010	0.020			8/18/15 13:55:00	N	IV
R1506803-004	Chromium, Hexavalent, Dissolved	N/A		Water	0.00 µg/L	10 mL	0.020 µg/L	U 1 ✓	0.010	0.020			8/18/15 14:07:00	N	IV
R1506803-005	Chromium, Hexavalent, Dissolved	N/A		Water	0.00 µg/L	10 mL	0.020 µg/L	U 1 ✓	0.010	0.020			8/18/15 14:19:00	N	IV
RQ1509479-01	Chromium, Hexavalent, Dissolved	CCV		Water	0.49 µg/L	10 mL	0.490 µg/L	1 ✓					8/18/15 14:31:00	N	II
RQ1509479-04	Chromium, Hexavalent, Dissolved	CCB		Water	0.00 µg/L	10 mL	0.020 µg/L	U 1 ✓	0.010	0.020			8/18/15 14:43:00	N	II

18000

# indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

IC8 218.6LL Analyst: CWoods Pipets: Up, Down 8/18/15

Injection Number	Injection Name	Type	Level	Processing Method	Inject Time	Dilution	Comment
1	STANDARD 1	Calibration Standard	01	8-080715LL	07/08/15 11:20	1.0	218.6 LL
2	STANDARD 2	Calibration Standard	02	8-080715LL	07/08/15 11:30	1.0	218.6 LL
3	STANDARD 3	Calibration Standard	03	8-080715LL	07/08/15 11:40	1.0	218.6 LL
4	STANDARD 4	Calibration Standard	04	8-080715LL	07/08/15 11:52	1.0	218.6 LL
5	STANDARD 5	Calibration Standard	05	8-080715LL	07/08/15 12:04	1.0	218.6 LL
6	STANDARD 6	Calibration Standard	06	8-080715LL	07/08/15 12:16	1.0	218.6 LL
7	STANDARD 7	Calibration Standard	07	8-080715LL	07/08/15 12:28	1.0	218.6 LL
8	STANDARD 1 REPEAT	Calibration Standard	01	8-080715LL	07/08/15 12:41	1.0	218.6 LL
9	STANDARD 2 REPEAT	Calibration Standard	02	8-080715LL	07/08/15 12:53	1.0	218.6 LL
10	CCV	Unknown		8-080715LL	18/08/15 11:26	1.0	218.6 LL
11	CCB	Unknown		8-080715LL	18/08/15 11:38	1.0	218.6 LL
12	LCS	Unknown		8-080715LL	18/08/15 11:50	1.0	218.6 LL
13	R1506597-001	Unknown		8-080715LL	18/08/15 12:04	5.0	218.6 LL
14	R1506597-001 MS	Unknown		8-080715LL	18/08/15 12:20	5.0	218.6 LL
15	R1506597-001 MSD	Unknown		8-080715LL	18/08/15 12:31	5.0	218.6 LL
16	CCV	Unknown		8-080715LL	18/08/15 12:50	1.0	218.6 LL
17	CCB	Unknown		8-080715LL	18/08/15 13:02	1.0	218.6 LL
18	R1506803-001	Unknown		8-080715LL	18/08/15 13:31	1.0	218.6 LL
19	R1506803-002	Unknown		8-080715LL	18/08/15 13:43	1.0	218.6 LL
20	R1506803-003	Unknown		8-080715LL	18/08/15 13:55	1.0	218.6 LL
21	R1506803-004	Unknown		8-080715LL	18/08/15 14:07	1.0	218.6 LL
22	R1506803-005	Unknown		8-080715LL	18/08/15 14:19	1.0	218.6 LL
23	CCV	Unknown		8-080715LL	18/08/15 14:31	1.0	218.6 LL
24	CCB	Unknown		8-080715LL	18/08/15 14:43	1.0	218.6 LL

R1506597  
copy

Reviewed & Approved

By: CK  
Date: 8/25/15

00082

Date/Time Received	Sample ID	Analysis	Matrix	Date/Time Sampled	Sample Filtered	Filter Lot ID	Chlorine Residual (mg/L) 218.7 only	pH at Receipt	pH Adjustment	Analyst/ Date/ Time pH Adjustment	Solution Used For PH Adjust	Solution Lot ID
6/22/15 09:05	D11710	7199 218.6 RL <del>218.6 LL</del> 218.7	<del>Water</del> Drinking Water	6-11-15 10:40	Yes <del>No</del> Field				9.489	KE 6-12-15 10:24	Buffer 10%H2SO4 10%NH4OH NH4OH(conc)	<del>80635 414</del>
	D11716	7199 218.6 RL <del>218.6 LL</del> 218.7	<del>Water</del> Drinking Water	6-11-15 14:10	Yes <del>No</del> Field				9.396	KE 6-12-15 10:27	Buffer 10%H2SO4 10%NH4OH NH4OH(conc)	
	D11715	7199 218.6 RL <del>218.6 LL</del> 218.7	<del>Water</del> Drinking Water	6-11-15 15:00	Yes <del>No</del> Field				9.377	KE 6-12-15 10:29	Buffer 10%H2SO4 10%NH4OH NH4OH(conc)	
	D11711	7199 218.6 RL <del>218.6 LL</del> 218.7	<del>Water</del> Drinking Water	6-11-15 09:25	Yes <del>No</del> Field				9.480	KE 6-12-15 10:32	Buffer 10%H2SO4 10%NH4OH NH4OH(conc)	
8/18/15 0805	15229-MW-1 6803-003	7199 218.6 RL <del>218.6 LL</del> 218.7	<del>Water</del> Drinking Water	8/17/15 1528	Yes <del>No</del> Field	-	-	9.539	-	8/18/15 0854 JFS	<del>Buffer</del> 10%H2SO4 10%NH4OH NH4OH(conc)	80635 414
8/18/15 0805	15229-MW-2 6803-002	7199 218.6 RL <del>218.6 LL</del> 218.7	<del>Water</del> Drinking Water	8/17/15 1500	Yes <del>No</del> Field	-	-	9.461	-	8/18/15 0856 JFS	<del>Buffer</del> 10%H2SO4 10%NH4OH NH4OH(conc)	80635 416
8/18/15 0805	15229-MW-3 6803-004	7199 218.6 RL <del>218.6 LL</del> 218.7	<del>Water</del> Drinking Water	8/17/15 1713	Yes <del>No</del> Field	-	-	9.409	-	8/18/15 0858 JFS	<del>Buffer</del> 10%H2SO4 10%NH4OH NH4OH(conc)	80635 416
8/18/15 0805	15229-MW-4 6803-005	7199 218.6 RL <del>218.6 LL</del> 218.7	<del>Water</del> Drinking Water	8/17/15 1743	Yes <del>No</del> Field	-	-	9.384	-	8/18/15 0900 JFS	<del>Buffer</del> 10%H2SO4 10%NH4OH NH4OH(conc)	80635 416

	Drinking water 218.7	Drinking water 218.6	Non-Pot Water 218.6	Water 7199
Filter	No	Required	Required	Optional
pH	>8.0	9.0-9.5	9.3-9.7	unpreserved - adjust to 9.0-9.5
Res Chlorine	<0.1 mg/L	NA	NA	NA
Holding Time	14 days	5 days	28 days	24 hours

Date/Time Received	Sample ID	Analysis	Matrix	Date/Time Sampled	Sample Filtered	Filter Lot ID	Chlorine Residual (mg/L) 218.7 only	pH at Receipt	pH Adjustment	Analyst/ Date/ Time pH Adjustment	Solution Used For PH Adjust	Solution Lot ID
8/18/15 0805	15229-MW-L 6803-001	7199 218.6 RL <del>218.6 LL</del> 218.7	<del>Water</del> Drinking Water	8/17/15 1055	Yes No <del>Field</del>	—	—	9.579	—	8/18/15 JFS 0903	<del>Buffer</del> 10%H2SO4 10%NH4OH NH4OH(conc) Buffer 10%H2SO4 10%NH4OH NH4OH(conc) Buffer 10%H2SO4 10%NH4OH NH4OH(conc) Buffer 10%H2SO4 10%NH4OH NH4OH(conc) Buffer 10%H2SO4 10%NH4OH NH4OH(conc) Buffer 10%H2SO4 10%NH4OH NH4OH(conc) Buffer 10%H2SO4 10%NH4OH NH4OH(conc)	80635 4/16
		7199 218.6 RL 218.6 LL 218.7	Water Drinking Water		Yes No Field							
		7199 218.6 RL 218.6 LL 218.7	Water Drinking Water		Yes No Field							
		7199 218.6 RL 218.6 LL 218.7	Water Drinking Water		Yes No Field							
		7199 218.6 RL 218.6 LL 218.7	Water Drinking Water		Yes No Field							
		7199 218.6 RL 218.6 LL 218.7	Water Drinking Water		Yes No Field							
		7199 218.6 RL 218.6 LL 218.7	Water Drinking Water		Yes No Field							
		7199 218.6 RL 218.6 LL 218.7	Water Drinking Water		Yes No Field							
		7199 218.6 RL 218.6 LL 218.7	Water Drinking Water		Yes No Field							

	Drinking water 218.7	Drinking water 218.6	Non-Pot Water 218.6	Water 7199
Filter	No	Required	Required	Optional unpreserved - adjust to 9.0-9.5
pH	>8.0	9.0-9.5	9.3-9.7	
Res Chlorine	<0.1 mg/L	NA	NA	NA
Holding Time	14 days	5 days	28 days	24 hours

00084

**Sample Dilutions**

Analyst: AWoods  
 Instrument: K8

Date: 8/18/15  
 Analysis: 218.6LL

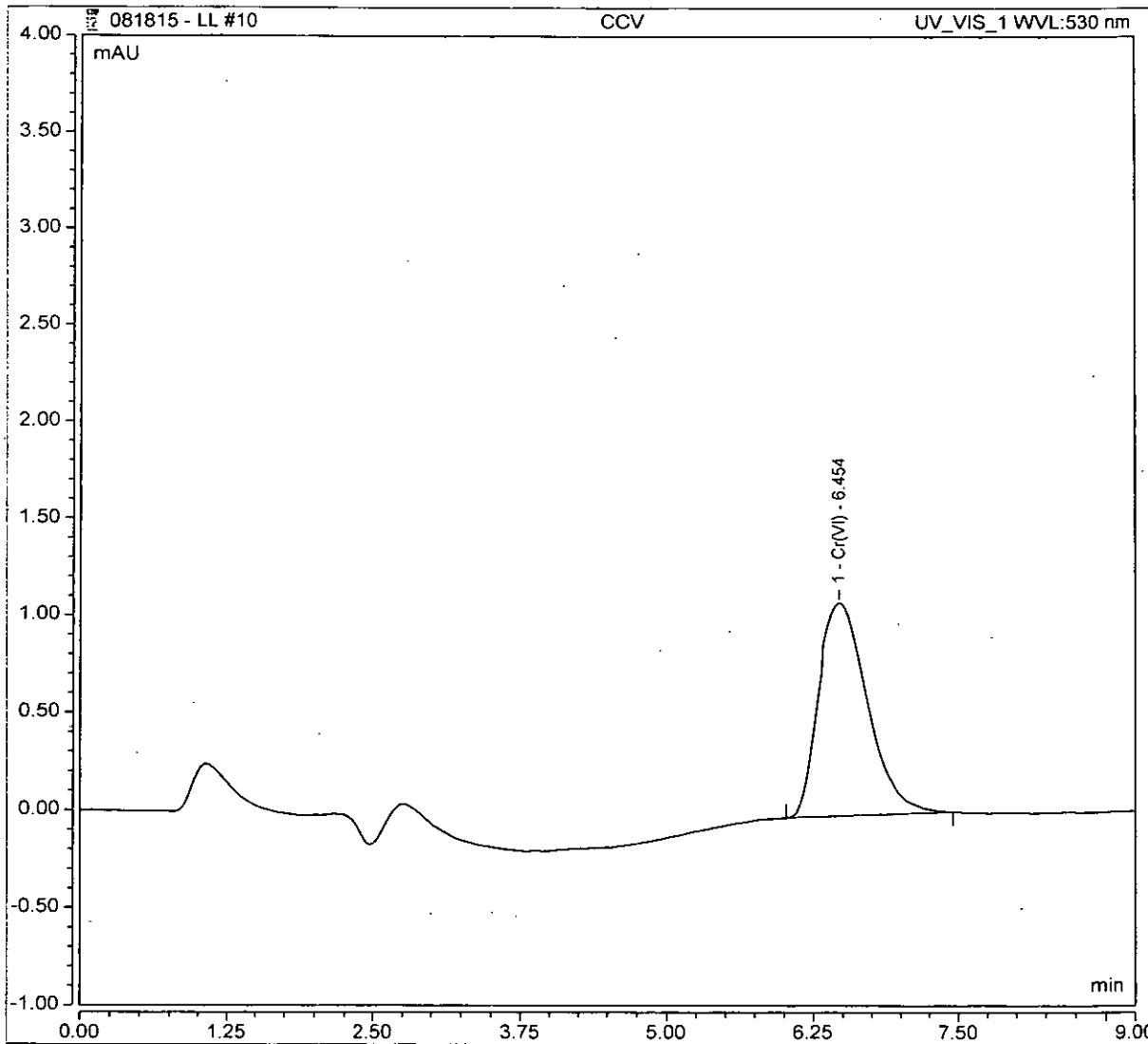
	Sample ID	1st Dilution			2nd Dilution			3rd Dilution			
		mL's of Sample	mL's of Diluent	Matrix of Diluent	Dilution Factor	mL's of 1st Dilution	mL's of Diluent	Dilution Factor	mL's of 2nd Dilution	mL's of Diluent	Dilution Factor
1	6597-001	1	4	buffer DI	5						
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
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25											
26											
27											
28											

*Handwritten signature and date:*  
 AWoods  
 8/18/15

### Peak Integration Report

Sample Name:	CCV	Inj. Vol.:	500.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	8-080715LL	Injection Number:	10
Inj. Date / Time:	18-Aug-2015 / 11:26	Sample Comment:	218.6 LL

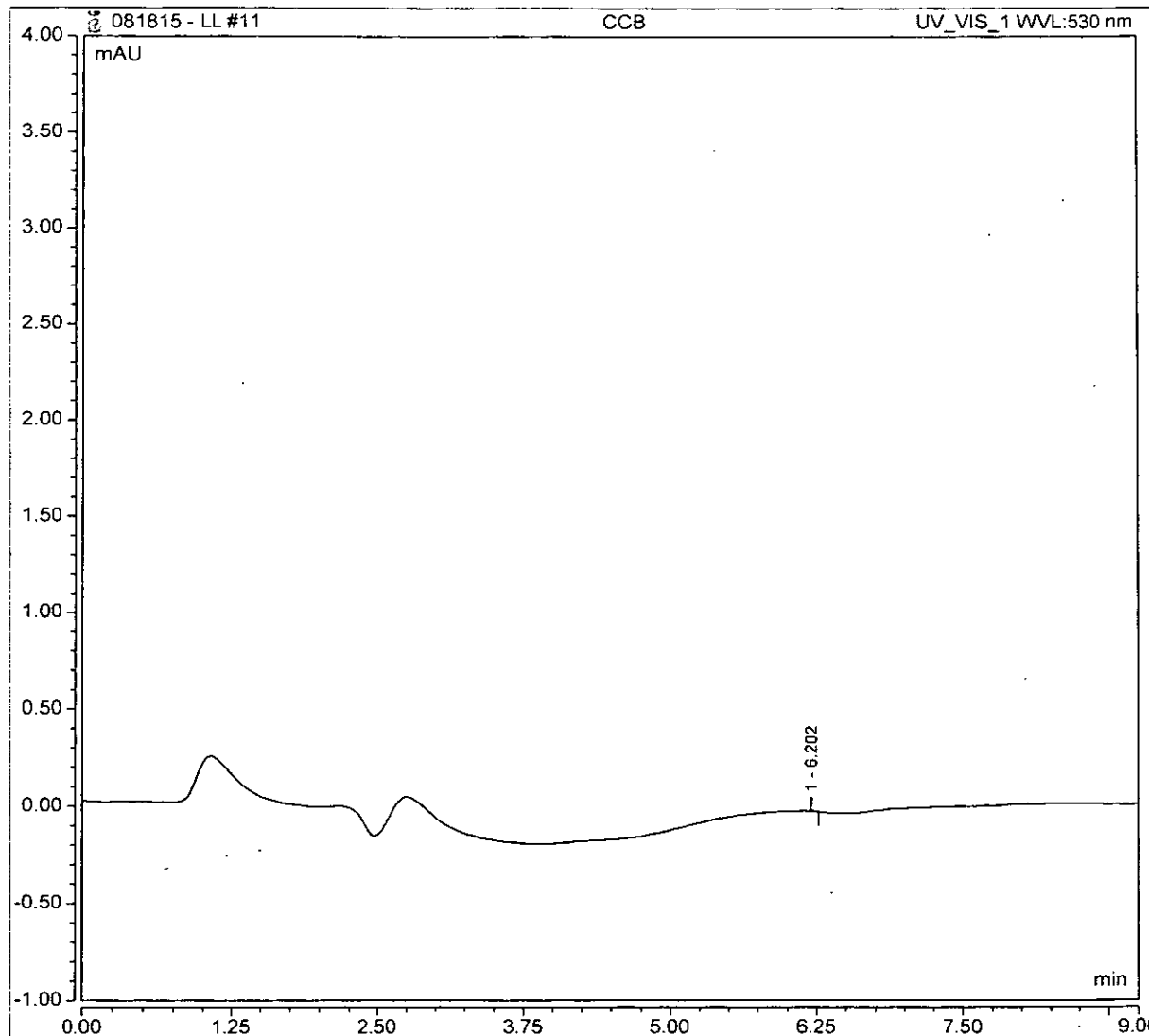
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppb
1	6.45	Cr(VI)	BMB	0.529	1.094	0.5012
TOTAL:				0.53	1.09	0.50



### Peak Integration Report

Sample Name:	CCB	Inj. Vol.:	500.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	8-080715LL	Injection Number:	11
Inj. Date / Time:	18-Aug-2015 / 11:38	Sample Comment:	218.6 LL

No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount n.a.
TOTAL:				0.00	0.00	0.00

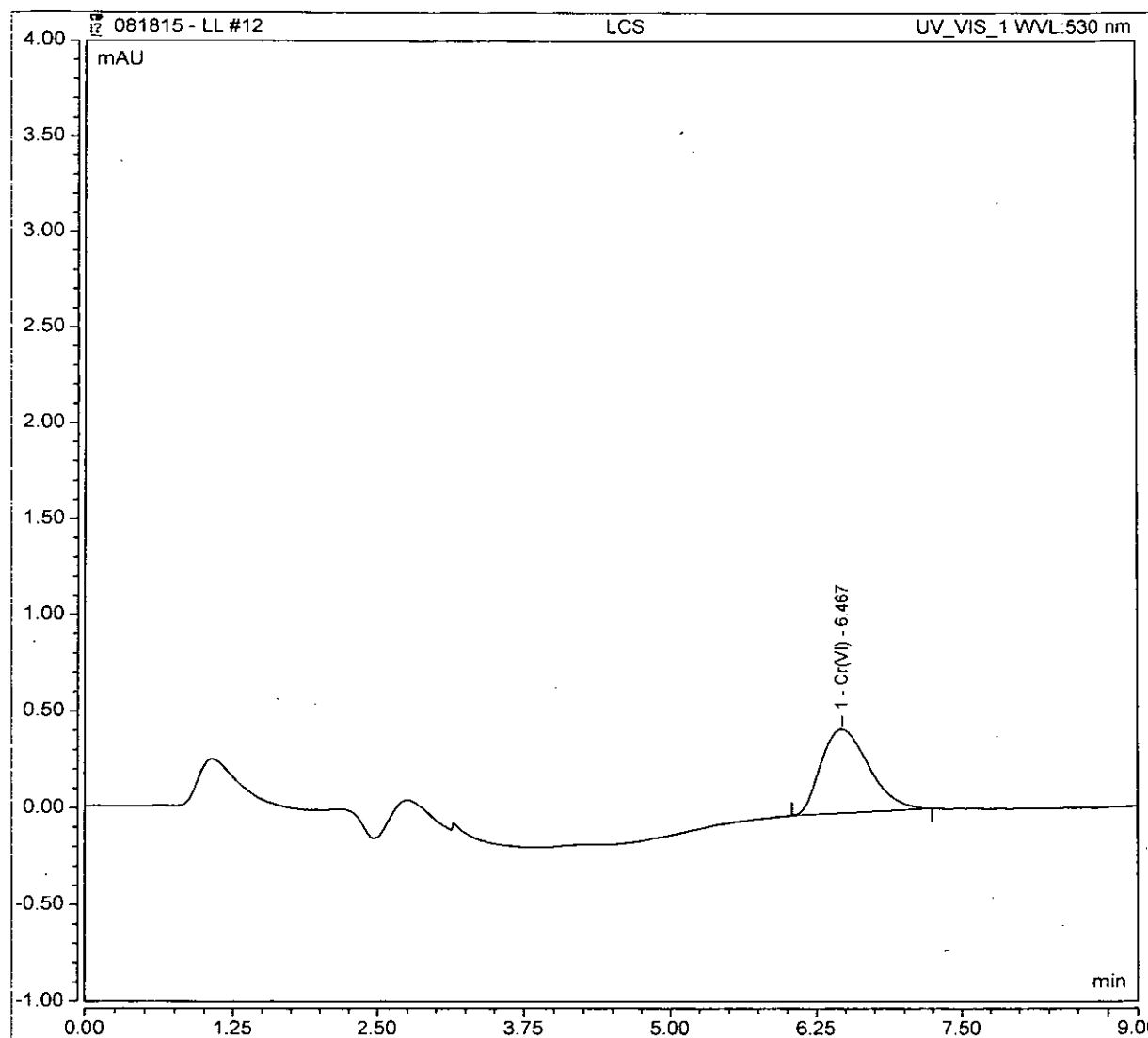




### Peak Integration Report

Sample Name:	LCS	Inj. Vol.:	500.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	8-080715LL	Injection Number:	12
Inj. Date / Time:	18-Aug-2015 / 11:50	Sample Comment:	218.6 LL

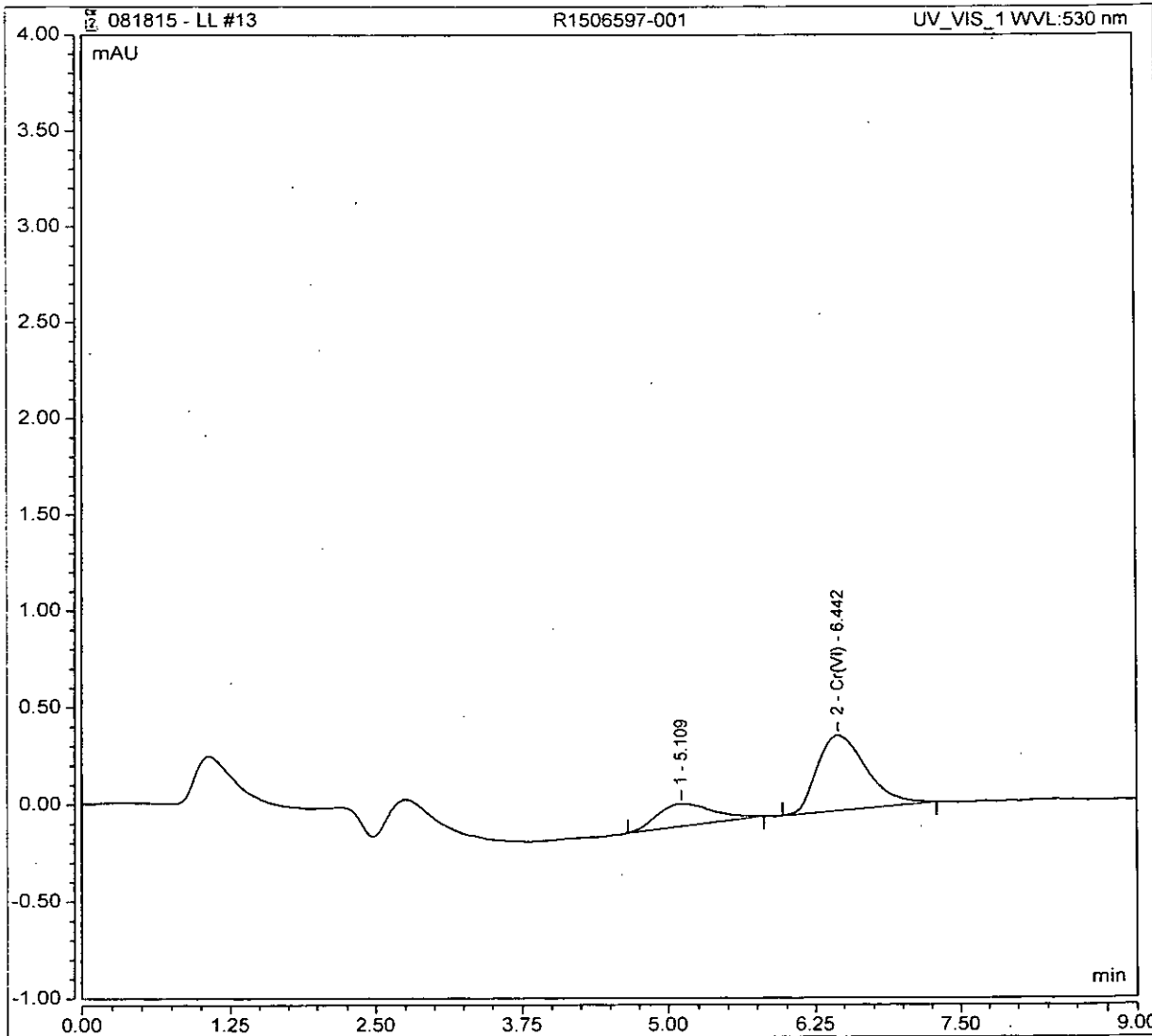
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppb
1	6.47	Cr(VI)	BMB	0.209	0.436	0.1983
TOTAL:				0.21	0.44	0.20



### Peak Integration Report

Sample Name:	R1506597-001	Inj. Vol.:	500.00
Injection Type:	Unknown	Dilution Factor:	5.0000
Processing Method:	8-080715LL	Injection Number:	13
Inj. Date / Time:	18-Aug-2015 / 12:04	Sample Comment:	218.6 LL

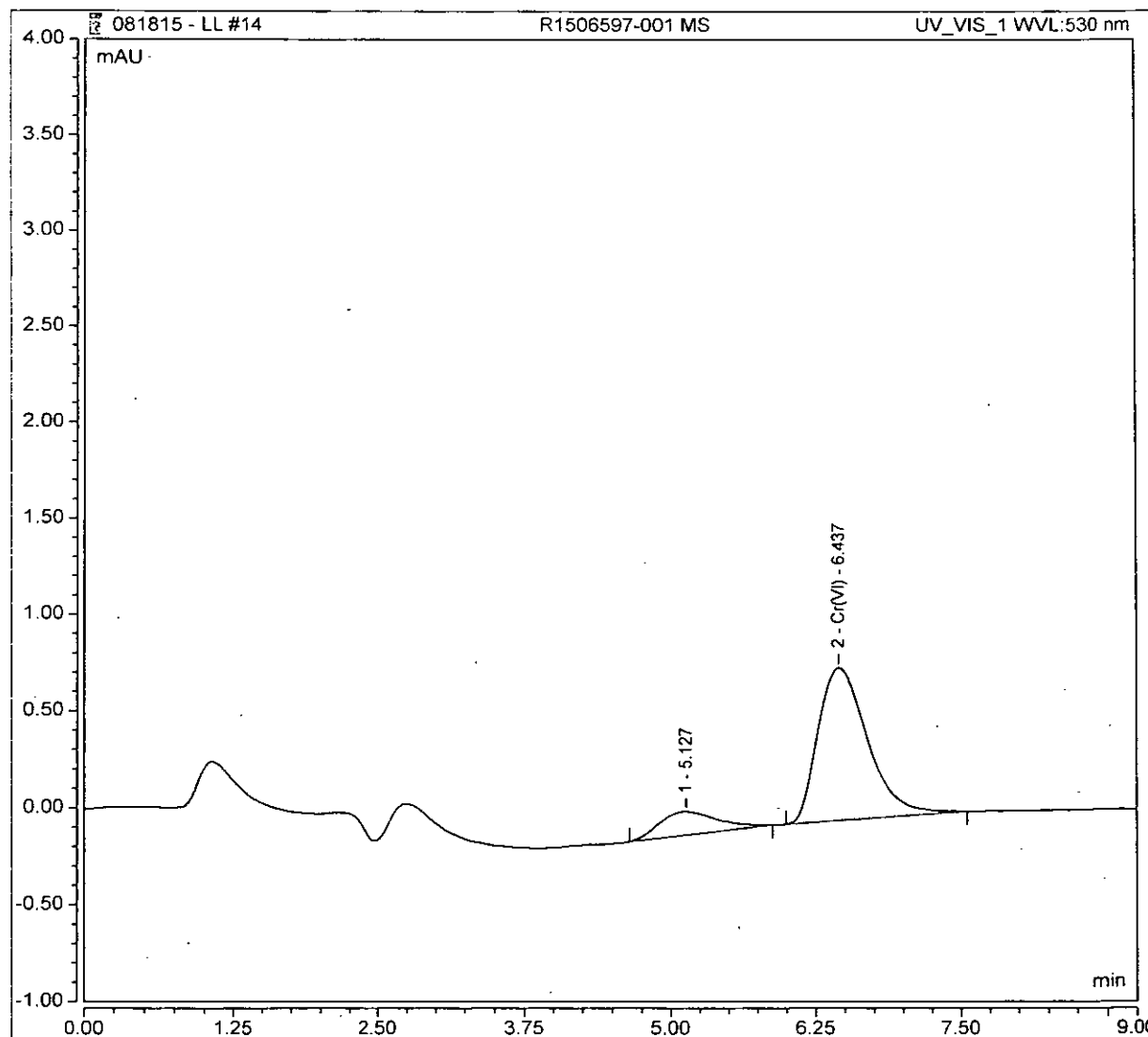
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppb
2	6.44	Cr(VI)	BMB	0.192	0.390	0.9144
TOTAL:				0.19	0.39	0.91



### Peak Integration Report

Sample Name:	R1506597-001 MS	Inj. Vol.:	500.00
Injection Type:	Unknown	Dilution Factor:	5.0000
Processing Method:	8-080715LL	Injection Number:	14
Inj. Date / Time:	18-Aug-2015 / 12:20	Sample Comment:	218.6 LL

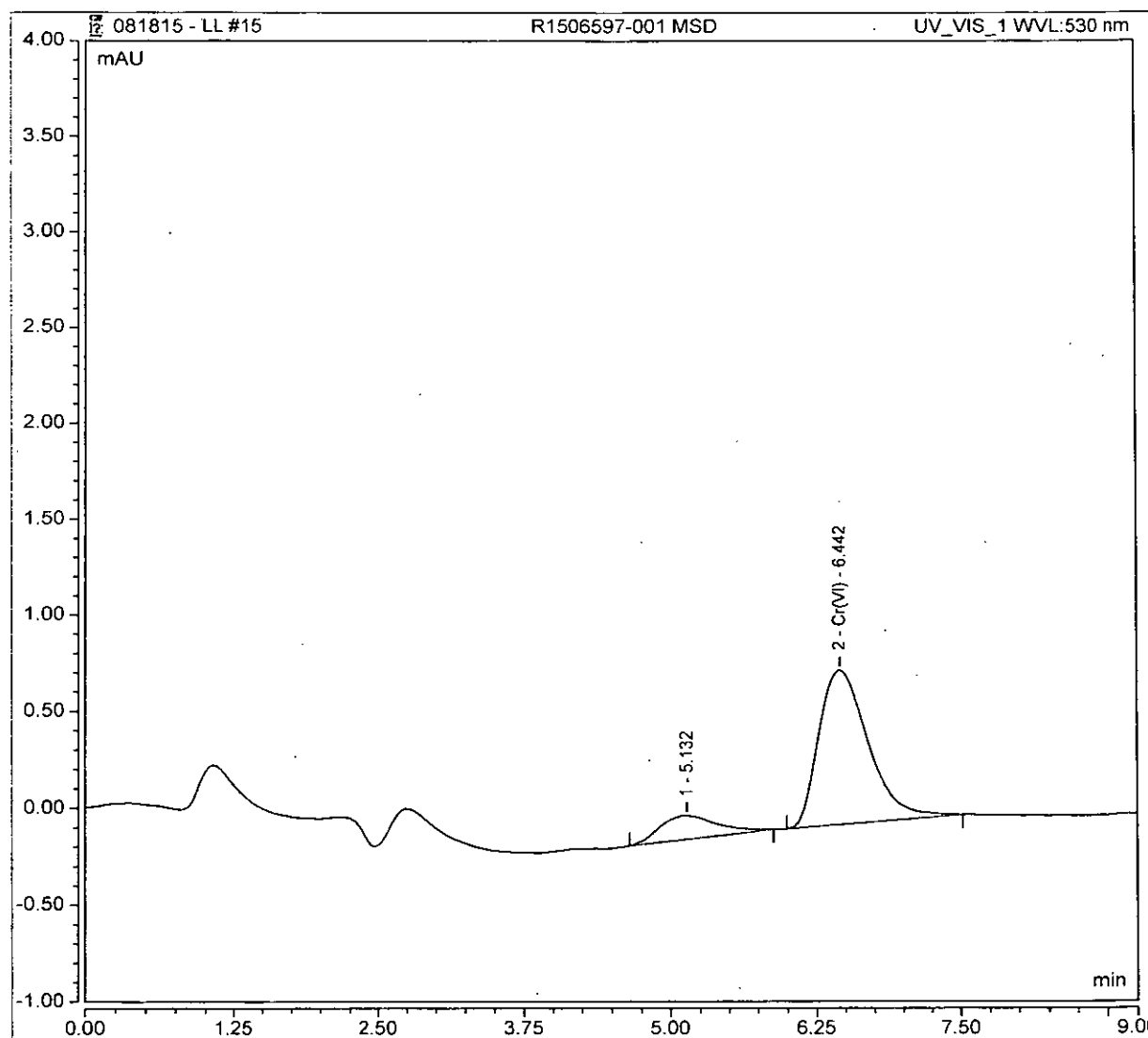
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppb
2	6.44	Cr(VI)	BMB	0.391	0.792	1.8547
TOTAL:				0.39	0.79	1.85



### Peak Integration Report

Sample Name:	R1506597-001 MSD	Inj. Vol.:	500.00
Injection Type:	Unknown	Dilution Factor:	5.0000
Processing Method:	8-080715LL	Injection Number:	15
Inj. Date / Time:	18-Aug-2015 / 12:31	Sample Comment:	218.6 LL

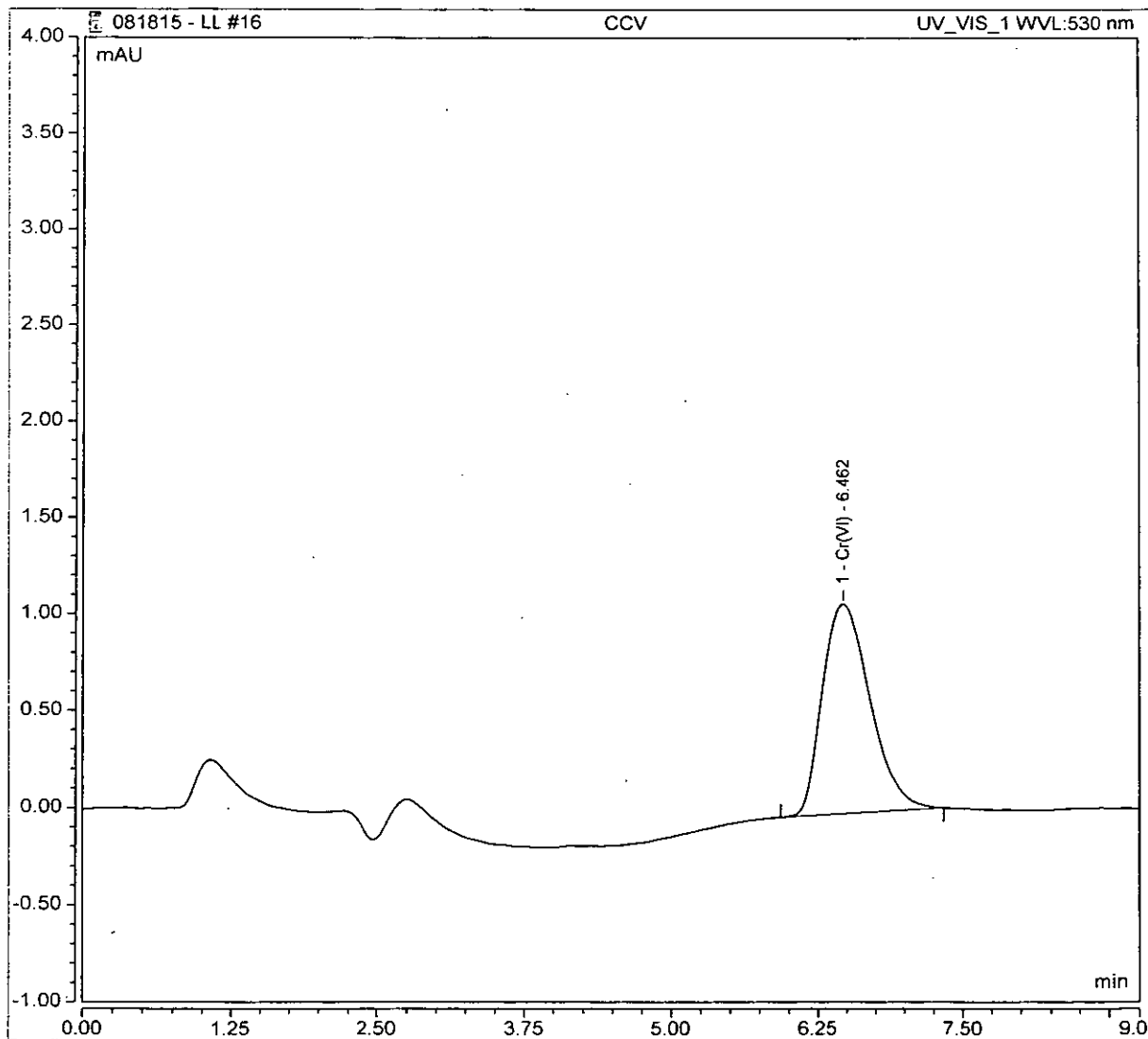
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppb
2	6.44	Cr(VI)	BMB	0.395	0.801	1.8704
TOTAL:				0.39	0.80	1.87



### Peak Integration Report

Sample Name:	CCV	Inj. Vol.:	500.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	8-080715LL	Injection Number:	16
Inj. Date / Time:	18-Aug-2015 / 12:50	Sample Comment:	218.6 LL

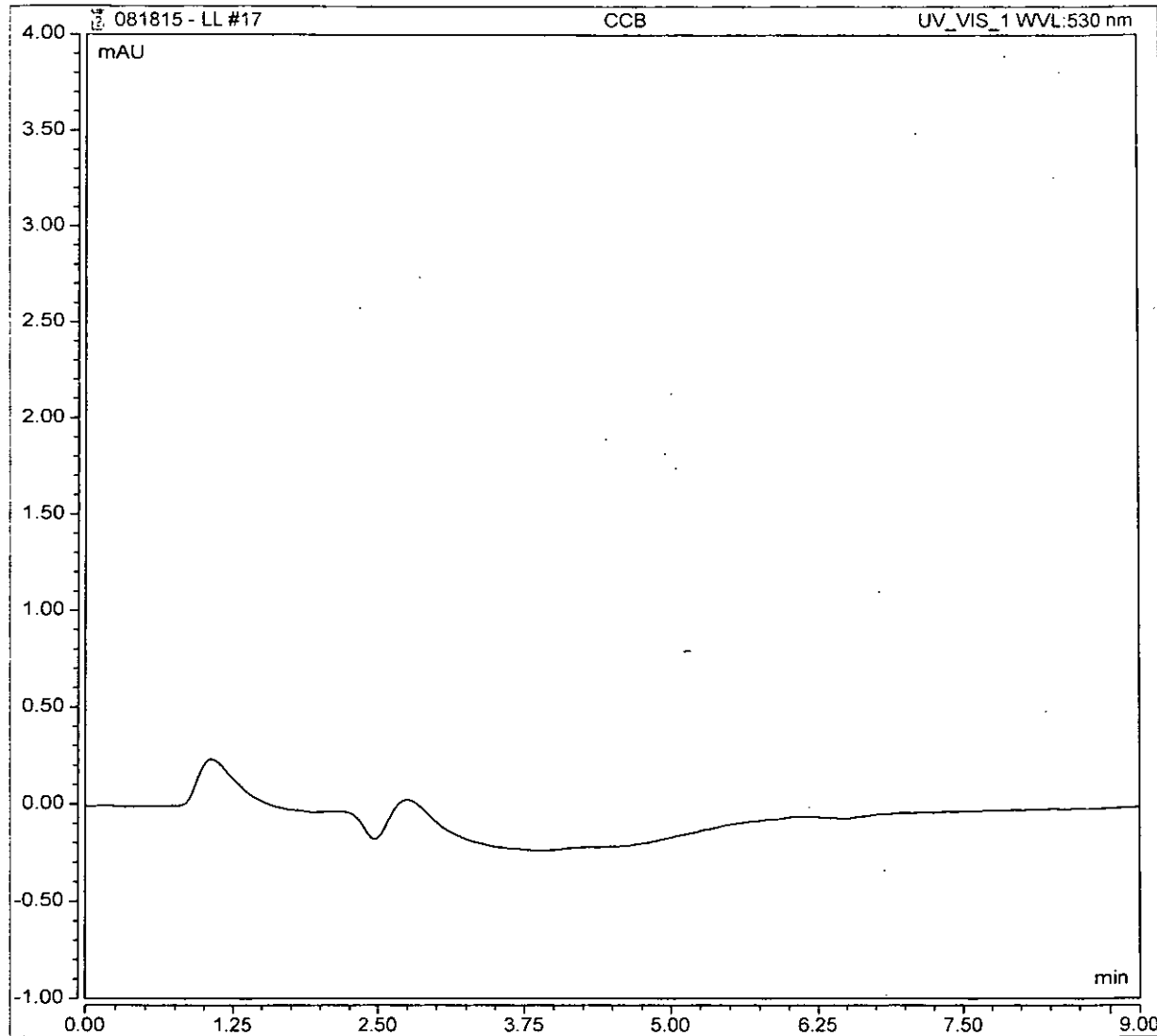
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppb
1	6.46	Cr(VI)	BMB	0.519	1.083	0.4912
TOTAL:				0.52	1.08	0.49



### Peak Integration Report

Sample Name:	CCB	Inj. Vol.:	500.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	8-080715LL	Injection Number:	17
Inj. Date / Time:	18-Aug-2015 / 13:02	Sample Comment:	218.6 LL

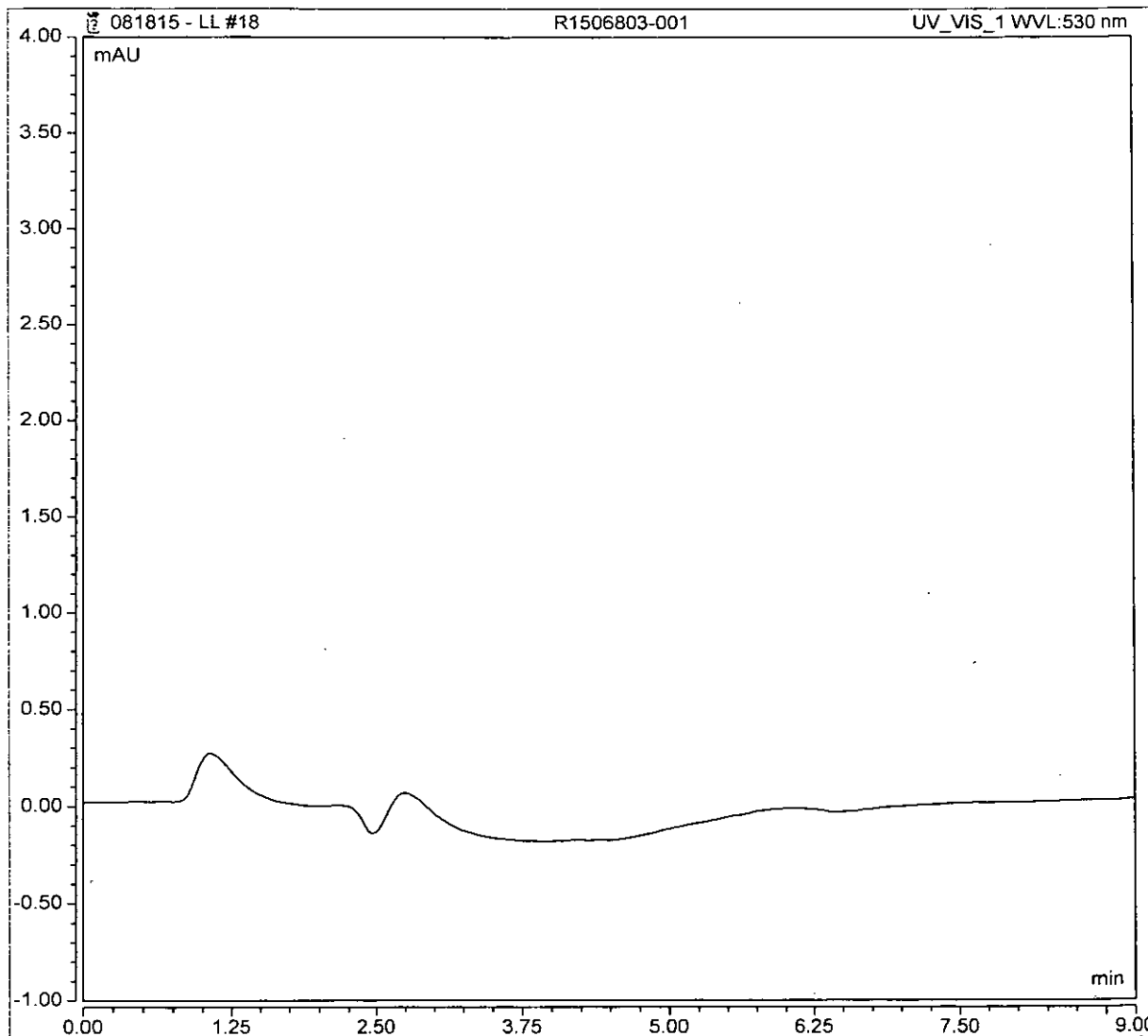
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount n.a.
TOTAL:				0.00	0.00	0.00



### Peak Integration Report

Sample Name:	R1506803-001	Inj. Vol.:	500.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	8-080715LL	Injection Number:	18
Inj. Date / Time:	18-Aug-2015 / 13:31	Sample Comment:	218.6 LL

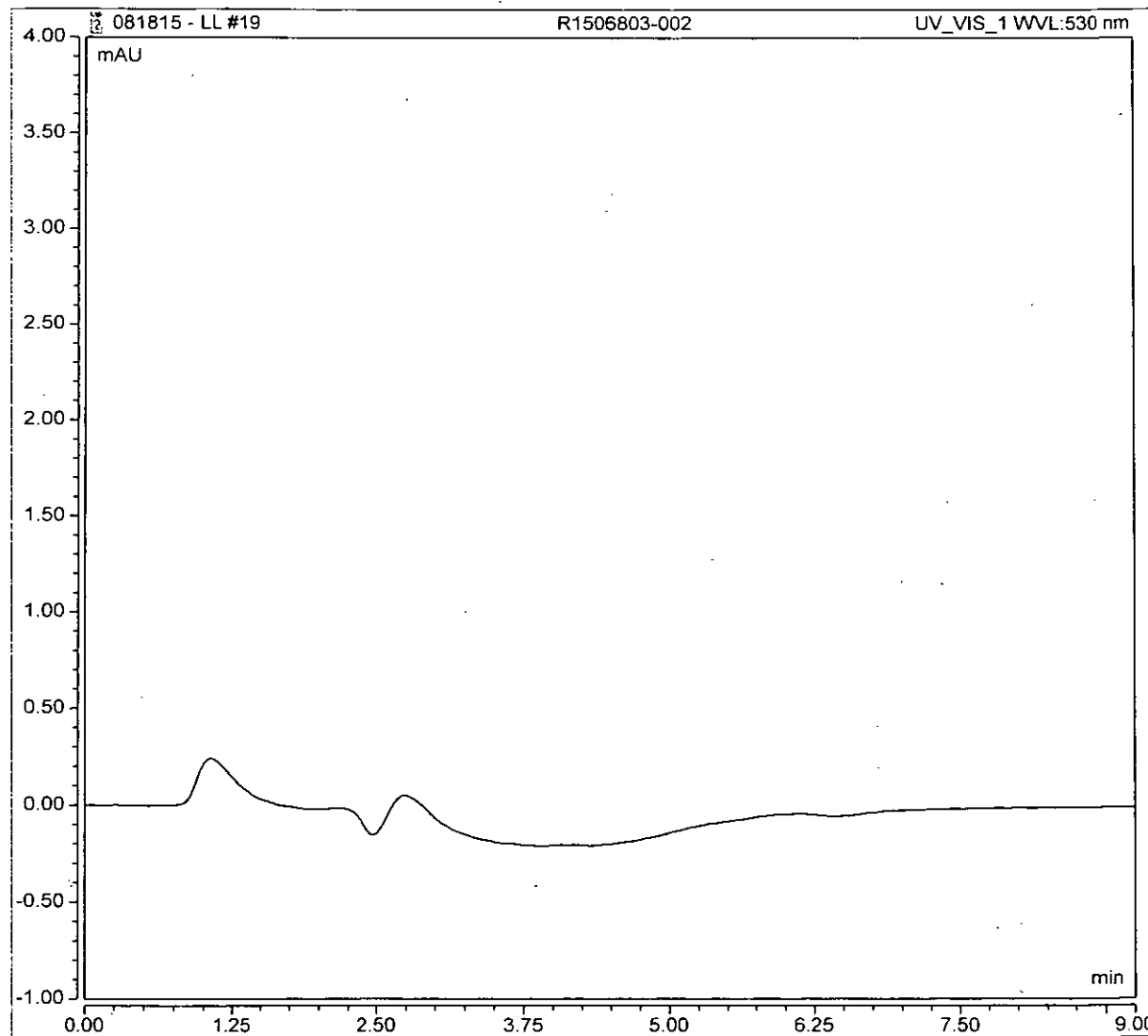
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount n.a.
TOTAL:				0.00	0.00	0.00



### Peak Integration Report

Sample Name:	R1506803-002	Inj. Vol.:	500.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	8-080715LL	Injection Number:	19
Inj. Date / Time:	18-Aug-2015 / 13:43	Sample Comment:	218.6 LL

No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount n.a.
TOTAL:				0.00	0.00	0.00

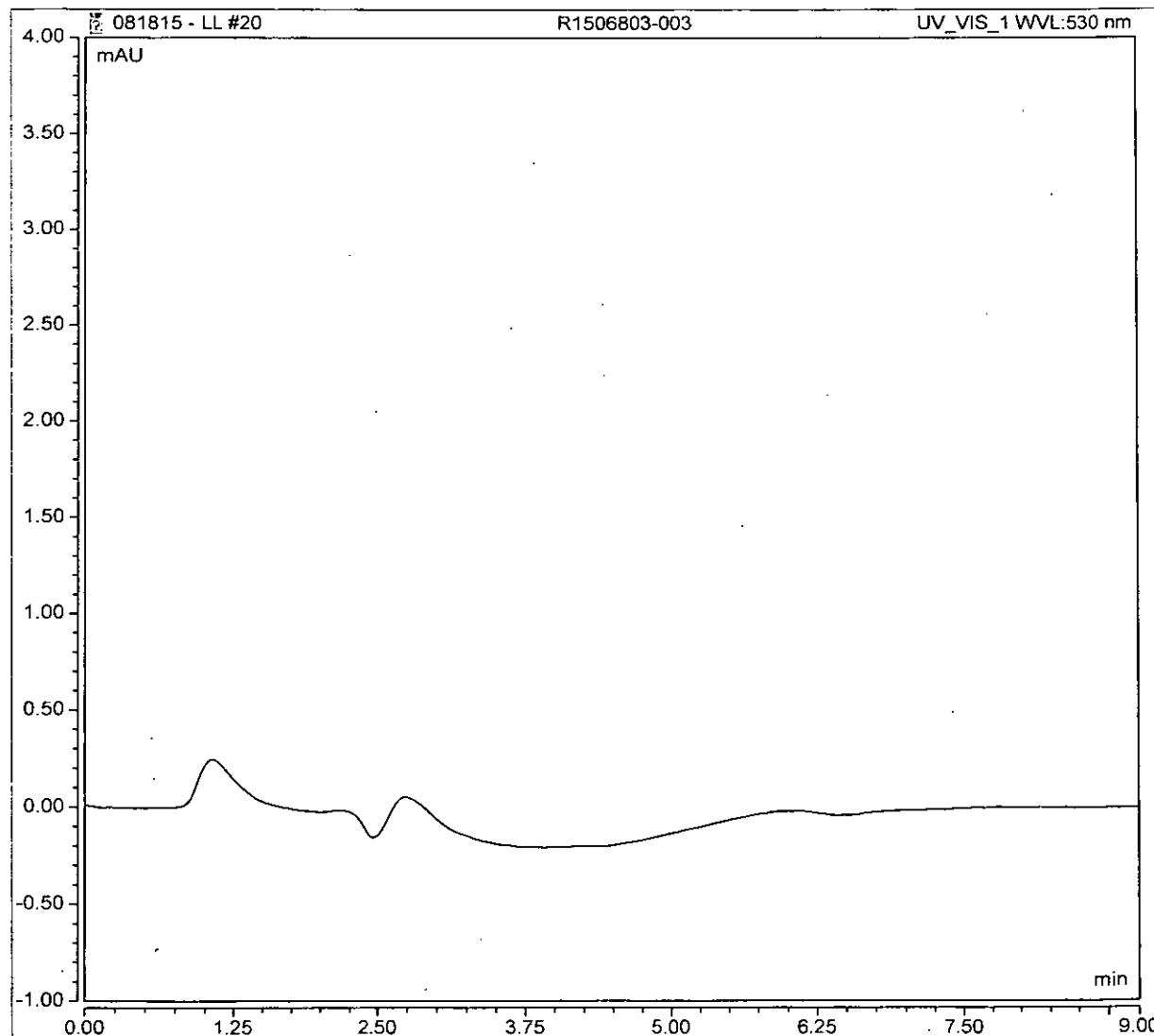




### Peak Integration Report

Sample Name:	R1506803-003	Inj. Vol.:	500.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	8-080715LL	Injection Number:	20
Inj. Date / Time:	18-Aug-2015 / 13:55	Sample Comment:	218.6 LL

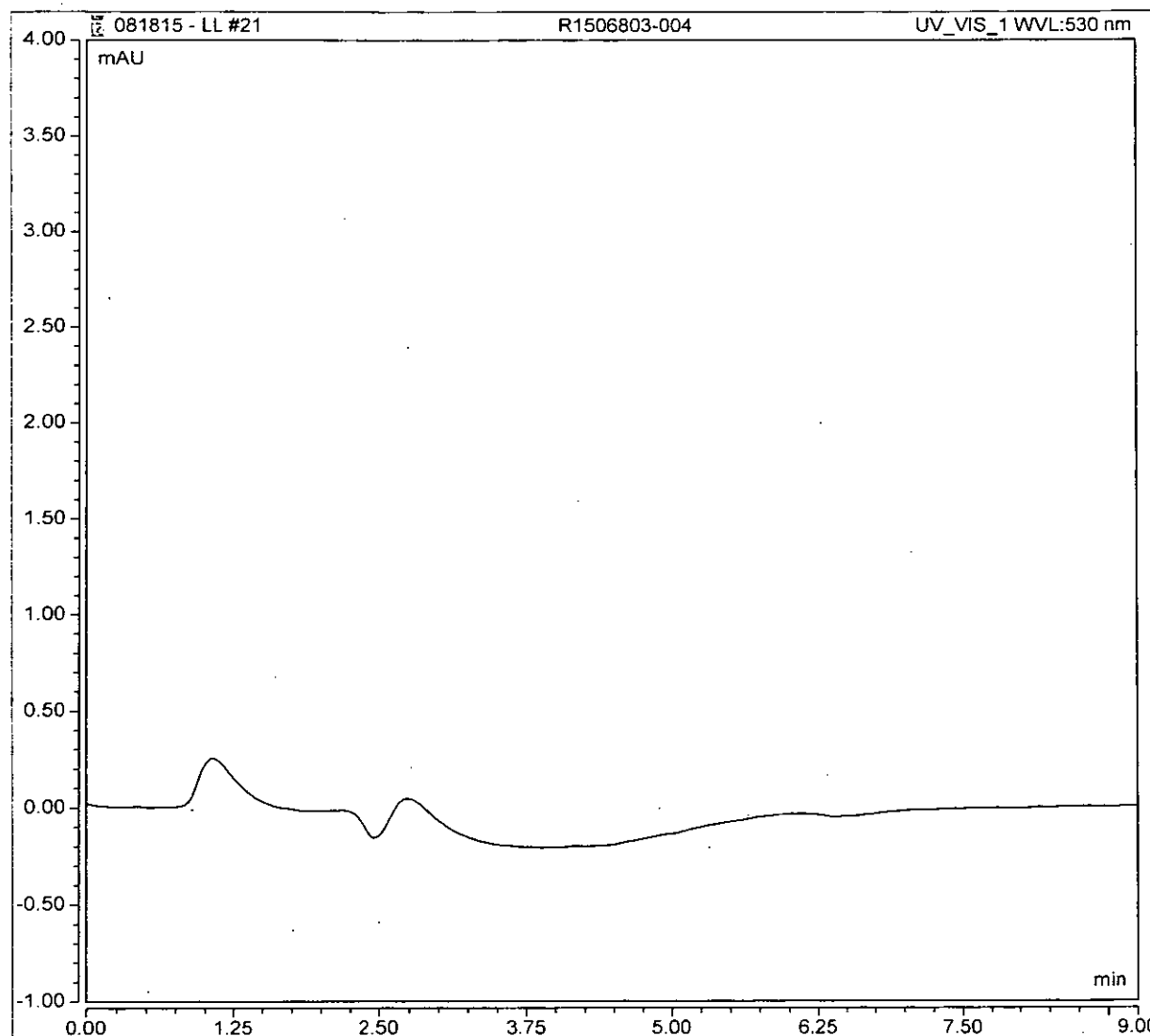
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount n.a.
TOTAL:				0.00	0.00	0.00



### Peak Integration Report

Sample Name:	R1506803-004	Inj. Vol.:	500.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	8-080715LL	Injection Number:	21
Inj. Date / Time:	18-Aug-2015 / 14:07	Sample Comment:	218.6 LL

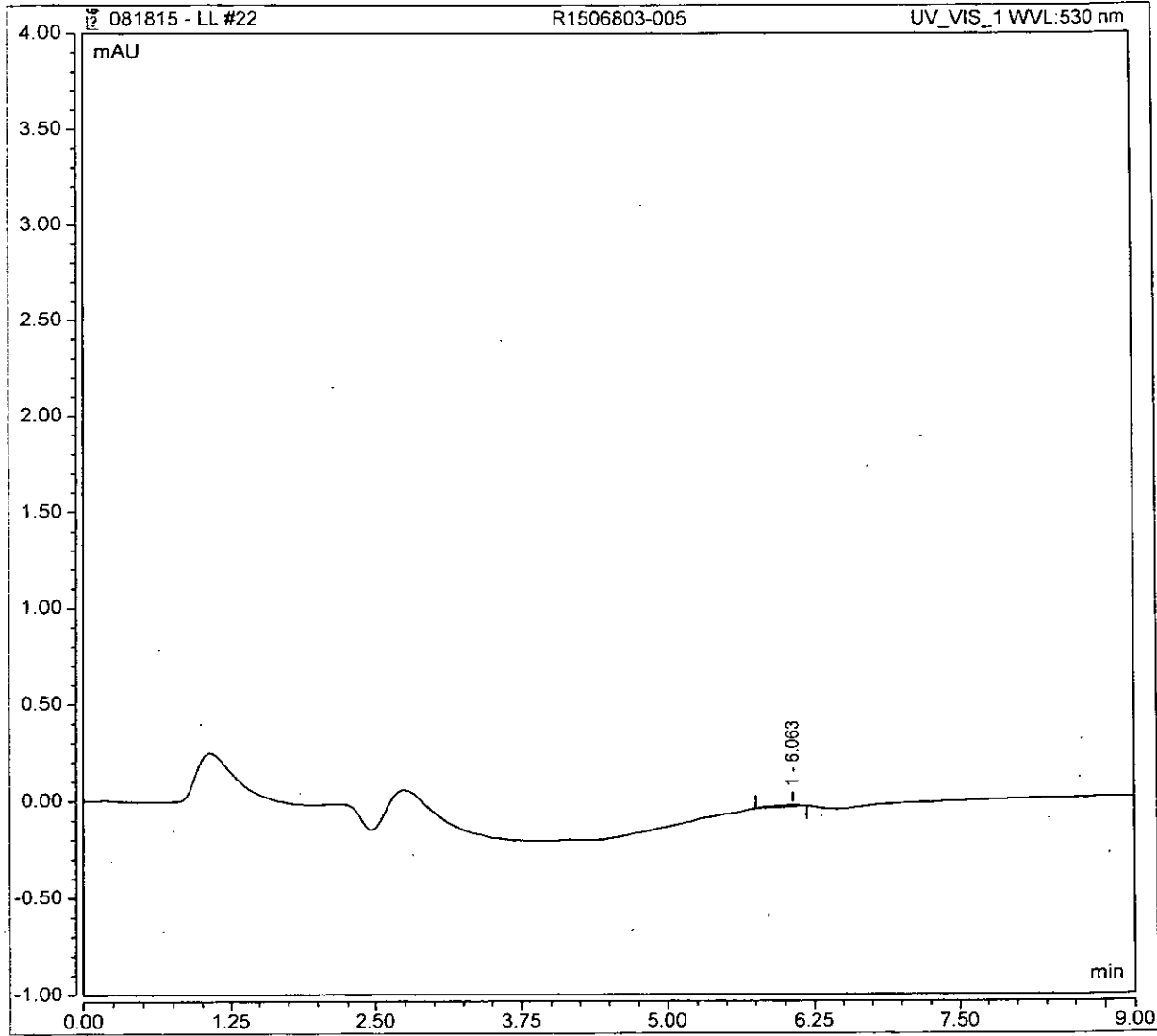
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount n.a.
TOTAL:				0.00	0.00	0.00



### Peak Integration Report

Sample Name:	R1506803-005	Inj. Vol.:	500.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	8-080715LL	Injection Number:	22
Inj. Date / Time:	18-Aug-2015 / 14:19	Sample Comment:	218.6 LL

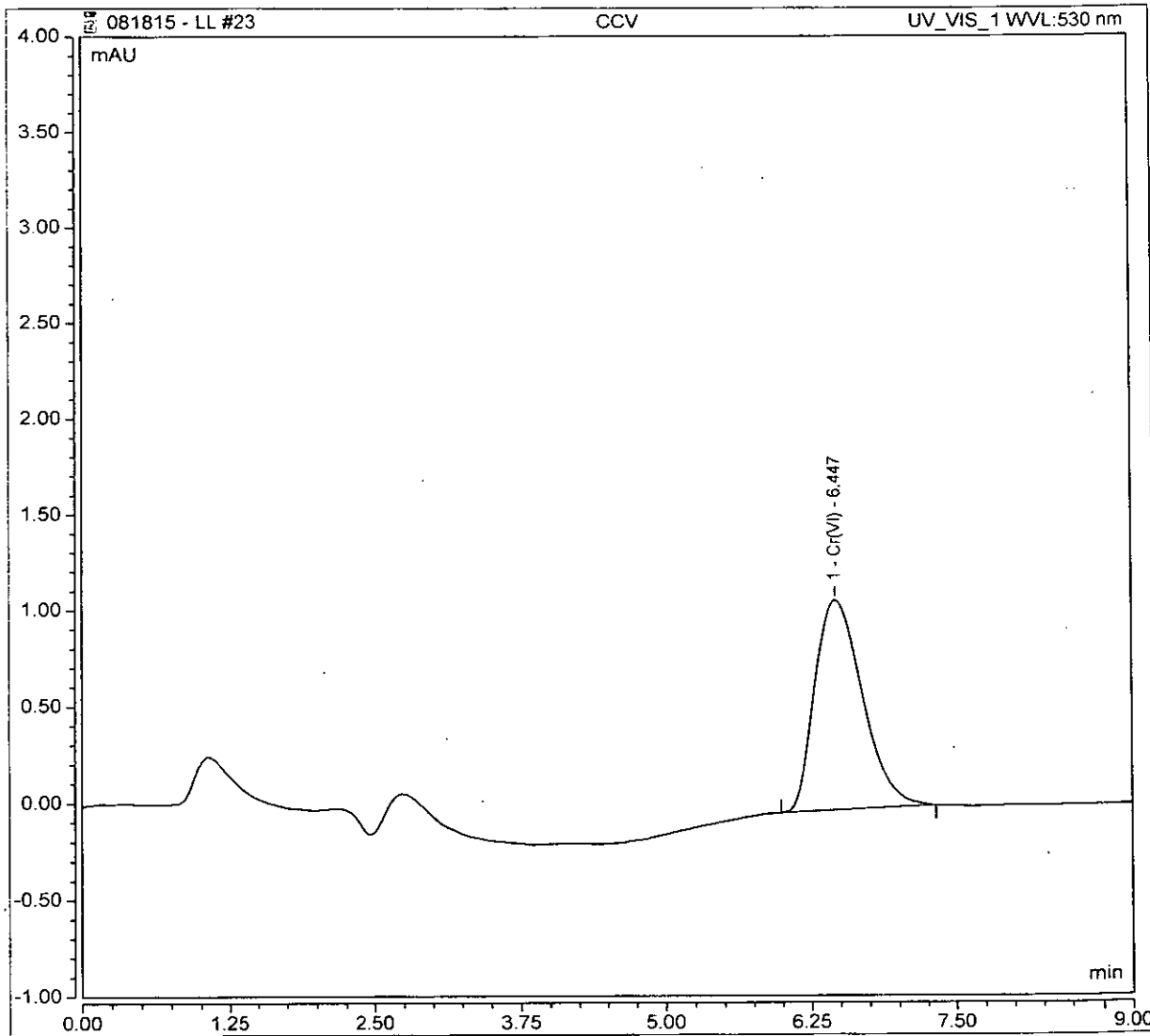
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount n.a.
TOTAL:				0.00	0.00	0.00



### Peak Integration Report

Sample Name:	CCV	Inj. Vol.:	500.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	8-080715LL	Injection Number:	23
Inj. Date / Time:	18-Aug-2015 / 14:31	Sample Comment:	218.6 LL

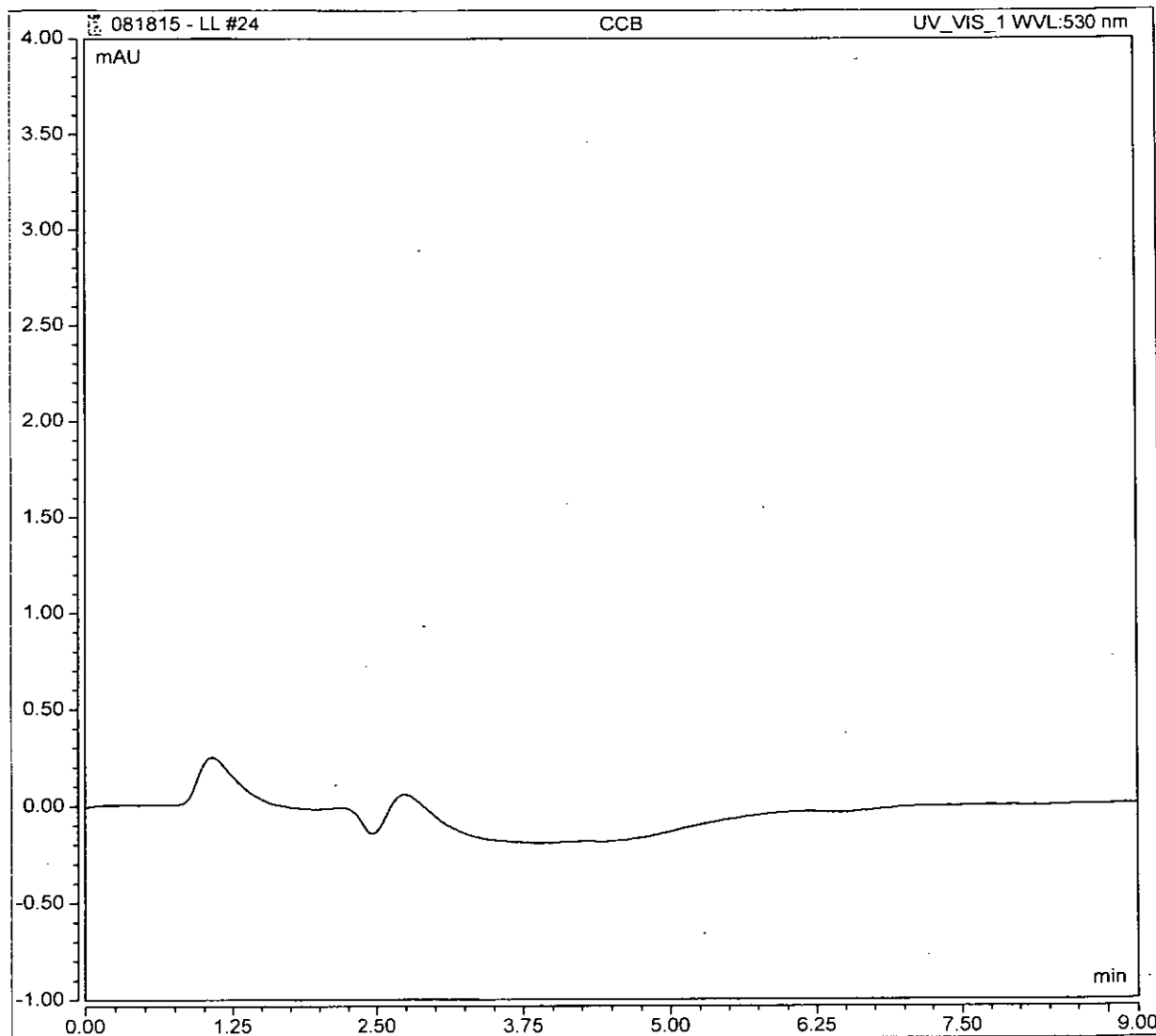
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppb
1	6.45	Cr(VI)	BMB	0.517	1.090	0.4895
TOTAL:				0.52	1.09	0.49



### Peak Integration Report

Sample Name:	CCB	Inj. Vol.:	500.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	8-080715LL	Injection Number:	24
Inj. Date / Time:	18-Aug-2015 / 14:43	Sample Comment:	218.6 LL

No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount n.a.
TOTAL:				0.00	0.00	0.00



ALS Environmental

1565 Jefferson Road, Building 300, Suite 360; Rochester, NY 14623

**Ion Chromatography Cover Sheet**

**Instrument:** IC#8 – Dionex 2100, AXP Reagent Pump, ICS Series UV/Vis VWD  
**Column:** AS7 Analytical Column (S/N 001384) / AG7 Guard Column (S/N 001363)  
 Analytical Column installed 07/09/14

**Curve Date:** 08/07/15 **Loop size:** 200 uL Loop

**Analyst:** C. Woods **Analysis Date:** 8/8/15

**CALIBRATION CURVE FOR THIS METHOD IS LINEAR**

**Method Filename:** 8-080715LL

**Standards Prep Dates & Log ID's:**

<i>Std Type</i>	<i>Date Rec'd</i>	<i>Log ID</i>		<i>Std Type</i>	<i>Prep Date</i>	<i>Log ID</i>
Calibration Standard Stock	09/23/14	WC140066D		Calibration Stds	08/07/15	Same as WC126208E
LCS / MS Soluble Stock	09/23/14	WC140066D		I/CCB	Daily	Same as WC126209B
I/CCV Standard Stock	02/05/15	WC140152H		I/CCV	Daily	Same as WC126209A
LCS	Daily	Same as WC126209C		Matrix Spike	Daily	Same as WC126209D

**Retention times must be within ten percent of original RT as determined by Standard 5 – 6.491 minutes**  
**All analyses are reviewed to ensure that peak integration is performed properly from baseline to baseline.**

# Analytical Results Summary

Instrument Name: R-IC-05

Analyst: CWOODS

Analysis Lot: 460058 Method/Testcode: 7199/Cr6

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ1510029-11	Chromium, Hexavalent	CCV		Soil	0.50 mg/L	2.5 g	0.503 mg/L	1					8/29/15 10:57:00	N	IV
RQ1510029-12	Chromium, Hexavalent	CCB		Soil	0.00 mg/L	2.5 g	0.40 mg/Kg U	1	0.05	0.40			8/29/15 11:05:00	N	IV
RQ1510027-01	Chromium, Hexavalent	MB		Soil	0.00 mg/L	2.5 g	0.40 mg/Kg U	1	0.05	0.40			8/29/15 11:13:00	N	IV
RQ1510027-01	Chromium, Hexavalent	MB		Soil	0.00 mg/L	2.5 g	0.40 mg/Kg U	1	0.05	0.40			8/29/15 11:22:00	N	IV
RQ1510027-02	Chromium, Hexavalent	LCS		Soil	16.72 mg/L	2.5 g	669 mg/Kg	20	0.9	8.0	102		8/29/15 11:29:00	N	IV
RQ1510027-02	Chromium, Hexavalent	LCS		Soil	16.63 mg/L	2.5 g	665 mg/Kg	20	0.9	8.0	101		8/29/15 11:37:00	N	IV
R1506803-008	Chromium, Hexavalent	N/A		Soil	0.03 mg/L	2.5700 g	1.25 mg/Kg	1	0.05	0.47			8/29/15 11:44:00	N	IV
R1506803-008	Chromium, Hexavalent	N/A		Soil	0.03 mg/L	2.5700 g	1.22 mg/Kg	1	0.05	0.47			8/29/15 11:53:00	N	IV
RQ1510027-03	Chromium, Hexavalent	DUP	R1506803-008	Soil	0.02 mg/L	2.5300 g	1.18 mg/Kg	1	0.05	0.47		6	8/29/15 12:00:00	N	IV
RQ1510027-03	Chromium, Hexavalent	DUP	R1506803-008	Soil	0.03 mg/L	2.5300 g	1.19 mg/Kg	1	0.05	0.47		3	8/29/15 12:08:00	N	IV
RQ1510027-04	Chromium, Hexavalent	MS	R1506803-008	Soil	0.98 mg/L	2.6000 g	45.1 mg/Kg	2	0.10	0.92	95		8/29/15 12:16:00	N	IV
RQ1510027-04	Chromium, Hexavalent	MS	R1506803-008	Soil	0.98 mg/L	2.6000 g	45.1 mg/Kg	2	0.10	0.92	95		8/29/15 12:24:00	N	IV
RQ1510029-05	Chromium, Hexavalent	CCV		Soil	0.51 mg/L	2.5 g	0.512 mg/L	1					8/29/15 12:31:00	N	IV
RQ1510029-10	Chromium, Hexavalent	CCB		Soil	0.00 mg/L	2.5 g	0.40 mg/Kg U	1	0.05	0.40			8/29/15 12:40:00	N	IV
RQ1510027-05	Chromium, Hexavalent	MS	R1506803-008	Soil	15.50 mg/L	2.5900 g	718 mg/Kg	20	1.0	9.3	94		8/29/15 12:52:00	N	IV
RQ1510027-05	Chromium, Hexavalent	MS	R1506803-008	Soil	15.52 mg/L	2.5900 g	720 mg/Kg	20	1.0	9.3	95		8/29/15 13:00:00	N	IV
R1506803-009	Chromium, Hexavalent	N/A		Soil	0.01 mg/L	2.5100 g	0.45 mg/Kg U	1	0.05	0.45			8/29/15 13:23:00	N	IV
R1506803-009	Chromium, Hexavalent	N/A		Soil	0.01 mg/L	2.5100 g	0.45 mg/Kg U	1	0.05	0.45			8/29/15 13:31:00	N	IV
R1506803-010	Chromium, Hexavalent	N/A		Soil	0.00 mg/L	2.5600 g	0.44 mg/Kg U	1	0.05	0.44			8/29/15 13:38:00	N	IV
R1506803-010	Chromium, Hexavalent	N/A		Soil	0.00 mg/L	2.5600 g	0.44 mg/Kg U	1	0.05	0.44			8/29/15 13:47:00	N	IV
R1506803-011	Chromium, Hexavalent	N/A		Soil	0.00 mg/L	2.5400 g	0.45 mg/Kg U	1	0.05	0.45			8/29/15 13:54:00	N	IV
R1506803-011	Chromium, Hexavalent	N/A		Soil	0.00 mg/L	2.5400 g	0.45 mg/Kg U	1	0.05	0.45			8/29/15 14:03:00	N	IV
RQ1510029-04	Chromium, Hexavalent	CCV		Soil	0.52 mg/L	2.5 g	0.519 mg/L	1					8/29/15 14:10:00	N	IV
RQ1510029-09	Chromium, Hexavalent	CCB		Soil	0.00 mg/L	2.5 g	0.40 mg/Kg U	1	0.05	0.40			8/29/15 14:18:00	N	IV
R1506803-012	Chromium, Hexavalent	N/A		Soil	0.02 mg/L	2.5500 g	1.13 mg/Kg	1	0.06	0.50			8/29/15 14:27:00	N	IV
R1506803-012	Chromium, Hexavalent	N/A		Soil	0.02 mg/L	2.5500 g	1.13 mg/Kg	1	0.06	0.50			8/29/15 14:35:00	N	IV
R1506803-013	Chromium, Hexavalent	N/A		Soil	0.01 mg/L	2.5200 g	0.47 mg/Kg U	1	0.05	0.47			8/29/15 14:42:00	N	IV
R1506803-013	Chromium, Hexavalent	N/A		Soil	0.01 mg/L	2.5200 g	0.47 mg/Kg U	1	0.05	0.47			8/29/15 14:51:00	N	IV
R1506803-014	Chromium, Hexavalent	N/A		Soil	0.02 mg/L	2.5 g	0.91 mg/Kg	1	0.06	0.48			8/29/15 14:58:00	N	IV
R1506803-014	Chromium, Hexavalent	N/A		Soil	0.02 mg/L	2.5 g	0.91 mg/Kg	1	0.06	0.48			8/29/15 15:06:00	N	IV
R1506803-015	Chromium, Hexavalent	N/A		Soil	0.01 mg/L	2.5500 g	0.69 mg/Kg	1	0.06	0.50			8/29/15 15:13:00	N	IV
R1506803-015	Chromium, Hexavalent	N/A		Soil	0.01 mg/L	2.5500 g	0.70 mg/Kg	1	0.06	0.50			8/29/15 15:22:00	N	IV
R1506803-016	Chromium, Hexavalent	N/A		Soil	0.01 mg/L	2.5400 g	0.63 mg/Kg	1	0.05	0.45			8/29/15 15:29:00	N	IV
R1506803-016	Chromium, Hexavalent	N/A		Soil	0.01 mg/L	2.5400 g	0.62 mg/Kg	1	0.05	0.45			8/29/15 15:37:00	N	IV
RQ1510029-03	Chromium, Hexavalent	CCV		Soil	0.52 mg/L	2.5 g	0.522 mg/L	1					8/29/15 15:45:00	N	IV
RQ1510029-08	Chromium, Hexavalent	CCB		Soil	0.00 mg/L	2.5 g	0.40 mg/Kg U	1	0.05	0.40			8/29/15 15:54:00	N	IV

# indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

# Analytical Results Summary

Instrument Name: R-IC-05

Analyst: CWOODS

Analysis Lot: 460058 Method/Testcode: 7199/Cr6

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
R1506803-017	Chromium, Hexavalent	N/A		Soil	0.01 mg/L	2.5200 g	0.60 mg/Kg	1	0.06	0.49			8/29/15 16:03:00	N	IV
R1506803-017	Chromium, Hexavalent	N/A		Soil	0.01 mg/L	2.5200 g	0.61 mg/Kg	1	0.06	0.49			8/29/15 16:11:00	N	IV
R1506803-018	Chromium, Hexavalent	N/A		Soil	0.01 mg/L	2.5200 g	0.59 mg/Kg	1	0.06	0.51			8/29/15 16:18:00	N	IV
R1506803-018	Chromium, Hexavalent	N/A		Soil	0.01 mg/L	2.5200 g	0.58 mg/Kg	1	0.06	0.51			8/29/15 16:27:00	N	IV
R1506803-028	Chromium, Hexavalent	N/A		Soil	0.09 mg/L	2.5900 g	10.7 mg/Kg	1	0.2	1.1			8/29/15 16:34:00	N	IV
R1506803-028	Chromium, Hexavalent	N/A		Soil	0.09 mg/L	2.5900 g	10.7 mg/Kg	1	0.2	1.1			8/29/15 16:43:00	N	IV
R1506803-029	Chromium, Hexavalent	N/A		Soil	0.07 mg/L	2.5400 g	7.1 mg/Kg	1	0.2	1.1			8/29/15 16:50:00	N	IV
R1506803-029	Chromium, Hexavalent	N/A		Soil	0.07 mg/L	2.5400 g	7.2 mg/Kg	1	0.2	1.1			8/29/15 16:58:00	N	IV
R1506803-030	Chromium, Hexavalent	N/A		Soil	0.00 mg/L	2.5900 g	0.98 mg/Kg	U 1	0.11	0.98			8/29/15 17:05:00	N	IV
R1506803-030	Chromium, Hexavalent	N/A		Soil	0.00 mg/L	2.5900 g	0.98 mg/Kg	U 1	0.11	0.98			8/29/15 17:14:00	N	IV
RQ1510029-02	Chromium, Hexavalent	CCV		Soil	0.52 mg/L	2.5 g	0.516 mg/L	1					8/29/15 17:21:00	N	IV
RQ1510029-07	Chromium, Hexavalent	CCB		Soil	0.00 mg/L	2.5 g	0.40 mg/Kg	U 1	0.05	0.40			8/29/15 17:30:00	N	IV
R1506803-031	Chromium, Hexavalent	N/A		Soil	0.00 mg/L	2.5 g	0.58 mg/Kg	U 1	0.07	0.58			8/29/15 17:38:00	N	IV
R1506803-031	Chromium, Hexavalent	N/A		Soil	0.00 mg/L	2.5 g	0.58 mg/Kg	U 1	0.07	0.58			8/29/15 17:46:00	N	IV
R1506803-032	Chromium, Hexavalent	N/A		Soil	0.00 mg/L	2.5900 g	0.96 mg/Kg	U 1	0.11	0.96			8/29/15 17:53:00	N	IV
R1506803-032	Chromium, Hexavalent	N/A		Soil	0.00 mg/L	2.5900 g	0.96 mg/Kg	U 1	0.11	0.96			8/29/15 18:02:00	N	IV
RQ1510029-01	Chromium, Hexavalent	CCV		Soil	0.52 mg/L	2.5 g	0.517 mg/L	1					8/29/15 18:56:00	N	IV
RQ1510029-06	Chromium, Hexavalent	CCB		Soil	0.00 mg/L	2.5 g	0.40 mg/Kg	U 1	0.05	0.40			8/29/15 19:05:00	N	IV
RQ1510029-14	Chromium, Hexavalent	CCV		Soil	0.51 mg/L	2.5 g	0.509 mg/L	1					8/30/15 14:05:00	N	IV
RQ1510029-16	Chromium, Hexavalent	CCB		Soil	0.00 mg/L	2.5 g	0.40 mg/Kg	U 1	0.05	0.40			8/30/15 14:13:00	N	IV
R1506803-006	Chromium, Hexavalent	N/A		Soil	0.00 mg/L	2.5000 g	0.48 mg/Kg	U 1	0.06	0.48			8/30/15 14:22:00	N	IV
R1506803-006	Chromium, Hexavalent	N/A		Soil	0.00 mg/L	2.5000 g	0.48 mg/Kg	U 1	0.06	0.48			8/30/15 14:30:00	N	IV
R1506803-007	Chromium, Hexavalent	N/A		Soil	0.01 mg/L	2.5600 g	0.43 mg/Kg	U 1	0.05	0.43			8/30/15 14:37:00	N	IV
R1506803-007	Chromium, Hexavalent	N/A		Soil	0.01 mg/L	2.5600 g	0.43 mg/Kg	U 1	0.05	0.43			8/30/15 14:46:00	N	IV
RQ1510029-13	Chromium, Hexavalent	CCV		Soil	0.52 mg/L	2.5 g	0.516 mg/L	1					8/30/15 14:53:00	N	IV
RQ1510029-15	Chromium, Hexavalent	CCB		Soil	0.00 mg/L	2.5 g	0.40 mg/Kg	U 1	0.05	0.40			8/30/15 15:02:00	N	IV

00103

# indicates Final Result is not yet adjusted for Solids because it has not yet been determined.





36	R1506803-014	Unknown	5-082915 RL	29/08/15 15:06	1.0	7199 REPLICATE
37	R1506803-015	Unknown	5-082915 RL	29/08/15 15:13	1.0	7199
38	R1506803-015	Unknown	5-082915 RL	29/08/15 15:22	1.0	7199 REPLICATE
39	R1506803-016	Unknown	5-082915 RL	29/08/15 15:29	1.0	7199
40	R1506803-016	Unknown	5-082915 RL	29/08/15 15:37	1.0	7199 REPLICATE
41	CCV	Unknown	5-082915 RL	29/08/15 15:45	1.0	7199/218.6 RL
42	CCB	Unknown	5-082915 RL	29/08/15 15:54	1.0	7199/218.6 RL
43	R1506803-017	Unknown	5-082915 RL	29/08/15 16:03	1.0	7199
44	R1506803-017	Unknown	5-082915 RL	29/08/15 16:11	1.0	7199 REPLICATE
45	R1506803-018	Unknown	5-082915 RL	29/08/15 16:18	1.0	7199
46	R1506803-018	Unknown	5-082915 RL	29/08/15 16:27	1.0	7199 REPLICATE
47	R1506803-028	Unknown	5-082915 RL	29/08/15 16:34	1.0	7199
48	R1506803-028	Unknown	5-082915 RL	29/08/15 16:43	1.0	7199 REPLICATE
49	R1506803-029	Unknown	5-082915 RL	29/08/15 16:50	1.0	7199
50	R1506803-029	Unknown	5-082915 RL	29/08/15 16:58	1.0	7199 REPLICATE
51	R1506803-030	Unknown	5-082915 RL	29/08/15 17:05	1.0	7199
52	R1506803-030	Unknown	5-082915 RL	29/08/15 17:14	1.0	7199 REPLICATE
53	CCV	Unknown	5-082915 RL	29/08/15 17:21	1.0	7199/218.6 RL
54	CCB	Unknown	5-082915 RL	29/08/15 17:30	1.0	7199/218.6 RL
55	R1506803-031	Unknown	5-082915 RL	29/08/15 17:38	1.0	7199
56	R1506803-031	Unknown	5-082915 RL	29/08/15 17:46	1.0	7199 REPLICATE
57	R1506803-032	Unknown	5-082915 RL	29/08/15 17:53	1.0	7199
58	R1506803-032	Unknown	5-082915 RL	29/08/15 18:02	1.0	7199 REPLICATE
59	SOIL METHOD BLANK	Unknown	5-082915 RL	29/08/15 18:09	1.0	7199
60	SOIL METHOD BLANK	Unknown	5-082915 RL	29/08/15 18:18	1.0	7199 REPLICATE
61	SOIL LCS	Unknown	5-082915 RL	29/08/15 18:25	20.0	7199
62	SOIL LCS	Unknown	5-082915 RL	29/08/15 18:33	20.0	7199 REPLICATE
63	R1506797-001	Unknown	5-082915 RL	29/08/15 18:40	1.0	7199
64	R1506797-001	Unknown	5-082915 RL	29/08/15 18:49	1.0	7199 REPLICATE
65	CCV	Unknown	5-082915 RL	29/08/15 18:56	1.0	7199/218.6 RL
66	CCB	Unknown	5-082915 RL	29/08/15 19:05	1.0	7199/218.6 RL
67	R1506797-002	Unknown	5-082915 RL	29/08/15 19:14	1.0	7199
68	R1506797-002	Unknown	5-082915 RL	29/08/15 19:23	1.0	7199 REPLICATE
69	R1506797-003	Unknown	5-082915 RL	29/08/15 19:30	1.0	7199
70	R1506797-003	Unknown	5-082915 RL	29/08/15 19:38	1.0	7199 REPLICATE
71	R1506797-004	Unknown	5-082915 RL	29/08/15 19:46	1.0	7199
72	R1506797-004	Unknown	5-082915 RL	29/08/15 19:54	1.0	7199 REPLICATE
73	R1506797-004 DUP	Unknown	5-082915 RL	29/08/15 20:01	1.0	7199
74	R1506797-004 DUP	Unknown	5-082915 RL	29/08/15 20:10	1.0	7199 REPLICATE

75	R1506797-004 SOL	Unknown	5-082915 RL	29/08/15 20:17	2.0	7199
76	R1506797-004 SOL	Unknown	5-082915 RL	29/08/15 20:25	2.0	7199 REPLICATE
77	CCV	Unknown	5-082915 RL	29/08/15 20:32	1.0	7199/218.6 RL
78	CCB	Unknown	5-082915 RL	29/08/15 20:41	1.0	7199/218.6 RL
79	R1506797-004 INSOL	Unknown	5-082915 RL	29/08/15 20:49	20.0	7199
80	R1506797-004 INSOL	Unknown	5-082915 RL	29/08/15 20:58	20.0	7199 REPLICATE
81	R1506797-004 PVS	Unknown	5-082915 RL	29/08/15 21:05	2.0	7199
82	R1506797-004 PVS	Unknown	5-082915 RL	29/08/15 21:13	2.0	7199 REPLICATE
83	R1506797-005	Unknown	5-082915 RL	29/08/15 21:20	1.0	7199
84	R1506797-005	Unknown	5-082915 RL	29/08/15 21:29	1.0	7199 REPLICATE
85	R1506797-006	Unknown	5-082915 RL	29/08/15 21:36	1.0	7199
86	R1506797-006	Unknown	5-082915 RL	29/08/15 21:45	1.0	7199 REPLICATE
87	R1506797-007	Unknown	5-082915 RL	29/08/15 21:52	1.0	7199
88	R1506797-007	Unknown	5-082915 RL	29/08/15 22:00	1.0	7199 REPLICATE
89	CCV	Unknown	5-082915 RL	29/08/15 22:07	1.0	7199/218.6 RL
90	CCB	Unknown	5-082915 RL	29/08/15 22:16	1.0	7199/218.6 RL
91	R1506797-008	Unknown	5-082915 RL	29/08/15 22:25	1.0	7199
92	R1506797-008	Unknown	5-082915 RL	29/08/15 22:34	1.0	7199 REPLICATE
93	R1506797-009	Unknown	5-082915 RL	29/08/15 22:41	1.0	7199
94	R1506797-009	Unknown	5-082915 RL	29/08/15 22:50	1.0	7199 REPLICATE
95	R1506797-010	Unknown	5-082915 RL	29/08/15 22:57	1.0	7199
96	R1506797-010	Unknown	5-082915 RL	29/08/15 23:05	1.0	7199 REPLICATE
97	R1506797-011	Unknown	5-082915 RL	29/08/15 23:13	1.0	7199
98	R1506797-011	Unknown	5-082915 RL	29/08/15 23:21	1.0	7199 REPLICATE
99	R1506797-015	Unknown	5-082915 RL	29/08/15 23:28	1.0	7199
100	R1506797-015	Unknown	5-082915 RL	29/08/15 23:37	1.0	7199 REPLICATE
101	CCV	Unknown	5-082915 RL	29/08/15 23:44	1.0	7199/218.6 RL
102	CCB	Unknown	5-082915 RL	29/08/15 23:52	1.0	7199/218.6 RL
103	R1506797-016	Unknown	5-082915 RL	30/08/15 00:01	1.0	7199
104	R1506797-016	Unknown	5-082915 RL	30/08/15 00:09	1.0	7199 REPLICATE
105	CCV	Unknown	5-082915 RL	30/08/15 00:16	1.0	7199/218.6 RL
106	CCB	Unknown	5-082915 RL	30/08/15 00:25	1.0	7199/218.6 RL
107	CCV	Unknown	5-082915 RL	30/08/15 14:05	1.0	7199/218.6 RL
108	CCB	Unknown	5-082915 RL	30/08/15 14:13	1.0	7199/218.6 RL
109	R1506803-006	Unknown	5-082915 RL	30/08/15 14:22	1.0	7199
110	R1506803-006	Unknown	5-082915 RL	30/08/15 14:30	1.0	7199 REPLICATE
111	R1506803-007	Unknown	5-082915 RL	30/08/15 14:37	1.0	7199
112	R1506803-007	Unknown	5-082915 RL	30/08/15 14:46	1.0	7199 REPLICATE
113	CCV	Unknown	5-082915 RL	30/08/15 14:53	1.0	7199/218.6 RL

114 CCB

Unknown

5-082915 RL

30/08/15 15:02

1.0

7199/218.6 RL

00107

# Preparation Information Benchsheet

Prep Run#: 243751  
 Team: GenChem/CWOODS

Prep Workflow: Gen Dig Cr6  
 Prep Method: EPA 3060A

Status: Prepped  
 Prep Date/Time: 8/27/15 04:07 PM

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ1510027-01	MB		2.5g	7199/Cr6				100.00mL			
2	RQ1510027-02	LCS		2.5g	7199/Cr6				100.00mL		10.2000 mg/54146	
3	R1506803-006	15229-SB-25-2	.01	2.5000g	7199/Cr6				100.00mL			
4	R1506803-007	15229-SB-23-2	.01	2.5600g	7199/Cr6				100.00mL			
5	R1506803-008	15229-SB-19-2	.01	2.5700g	7199/Cr6				100.00mL			
6	RQ1510027-03	R1506803-008 DUP	.01	2.5300g	7199/Cr6				100.00mL			
7	RQ1510027-04	R1506803-008 MS	.01	2.6000g	7199/Cr6				100.00mL		1.0000 mL/81228	
8	RQ1510027-05	R1506803-008 MS	.01	2.5900g	7199/Cr6				100.00mL		10.2000 mg/54146	
9	R1506803-009	15229-SB-24-2	.01	2.5100g	7199/Cr6				100.00mL			
10	R1506803-010	15229-SB-22-2	.01	2.5600g	7199/Cr6				100.00mL			
11	R1506803-011	15229-SB-21-2	.01	2.5400g	7199/Cr6				100.00mL			
12	R1506803-012	15229-SB-18-2	.01	2.5500g	7199/Cr6				100.00mL			
13	R1506803-013	15229-SB-14-2	.01	2.5200g	7199/Cr6				100.00mL			
14	R1506803-014	15229-SB-13-2	.01	2.5g	7199/Cr6				100.00mL			
15	R1506803-015	15229-SB-20-2	.01	2.5500g	7199/Cr6				100.00mL			
16	R1506803-016	15230-SB-15-2	.01	2.5400g	7199/Cr6				100.00mL			
17	R1506803-017	15230-SB-16-2	.01	2.5200g	7199/Cr6				100.00mL			
18	R1506803-018	15230-SB-17-2	.01	2.5200g	7199/Cr6				100.00mL			
19	R1506803-028	15231-SD-5	.01	2.5900g	7199/Cr6				100.00mL			
20	R1506803-029	15231-SD-6	.01	2.5400g	7199/Cr6				100.00mL			
21	R1506803-030	15231-SD-7	.01	2.5900g	7199/Cr6				100.00mL			
22	R1506803-031	15231-SD-8	.01	2.5g	7199/Cr6				100.00mL			
23	R1506803-032	15231-SD-9	.01	2.5900g	7199/Cr6				100.00mL			

### Spiking Solutions

Name: Lead (II) Chromate	Inventory ID 54146	Logbook Ref: WC112202F	Expires On: 01/18/2018	Lot #: 10160719
Name: Chromium (VI) (Hexavalent) 100 ppm Cr	Inventory ID 81228	Logbook Ref: Fresh Daily	Expires On: 08/31/2016	

### Preparation Steps

Step: Digestion  
 Started: 8/27/15 16:07  
 Finished: 8/27/15 17:07  
 By: CWOODS

Comments

00108


# Preparation Information Benchsheet


Prep Run#: 243751  
Team: GenChem/CWOODS


Prep WorkFlow: Gen Dig Cr6  
Prep Method: EPA 3060A

Status: Prepped  
Prep Date/Time: 8/27/15 04:07 PM

Comments: \_\_\_\_\_

 Reviewed By: \_\_\_\_\_ Date: \_\_\_\_\_

 Chain of Custody

	Relinquished By: _____	Date: _____	<u>Extracts Examined</u>	
	Received By: _____	Date: _____	Yes	No

Hexavalent Chromium Soils

Method: EPA 3060A FOR ANALYSIS BY 7199 - INITIAL DIGESTION (Page 1)

Analyst: C Woods Date: 8/27/15 Pipet ID: Top

ALS Environmental  
Rochester, NY

A) Digest Time Start: 1607 Stop: 1707 B) Digest Time Start: - Stop: -

Filters: Brand: Pall Type: Nylon Membrane Pore Size: 0.45 um. Digest Solution: pH: 13.39

pH Meter ID: pHat Albert Balance ID: R-Balance-01

#	Method	Order #	Sample Amt. (g.)	Digest Sol. (mL)	Final Vol. (mL)	pH Adjust	pH Adjust Date	Filtered Digestate Color/Comments	Deg. C @ # minutes						CF	Therm ID
									Observed			Corrected				
									0	30	60	0	30	60		
1	7199	MB	2.50	50	100	9.44	8/29/15	colorless, clear	91	92	93	91	92	93	0	366
2		LCS	2.50	50	100	9.29	8/29/15	+10.2mg PbCrO4 yellow, clear	92	94	91	93	95	92	1.2	368
3		R1506803-006	2.50	50	100	9.39	8/29/15	black, opaque	91	90	93	91	90	93	-0.4	381
4		R1506803-007	2.56	50	100	9.40	8/29/15	brown, clear	93	93	95	92	92	94	-1	382
5		R1506803-008	2.57	50	100	9.09	8/29/15	yellow, clear	93	95	92	91	93	90	-1.6	383
6		6803-008 D	2.53	50	100	9.22	8/29/15	yellow, clear	93	93	93	93	93	93	-0.3	384
7		6803-008 S	2.60	50	100	9.42	8/29/15	+1.0mg PbCrO4 yellow, clear	95	91	94	94	90	93	-1.5	385
8		6803-008 I	2.59	50	100	9.12	8/29/15	+10.2mg PbCrO4 yellow, clear	93	94	95	92	93	94	-1.3	386
9		R1506803-009	2.51	50	100	9.24	8/29/15	brown, clear	93	93	95	92	92	94	-0.9	387
10		R1506803-010	2.56	50	100	9.38	8/29/15	brown, clear	94	91	94	93	90	93	-0.9	388
11		R1506803-011	2.54	50	100	9.18	8/29/15	brown, clear	93	93	92	93	93	92	-0.3	389
12		R1506803-012	2.55	50	100	9.28	8/29/15	brown, clear	90	92	94	90	92	94	-0.5	390
13		R1506803-013	2.52	50	100	9.01	8/29/15	brown, clear	93	94	94	92	93	93	-0.6	391
14		R1506803-014	2.50	50	100	9.48	8/29/15	brown, clear	92	94	96	91	93	95	-1.2	392
15		R1506803-015	2.55	50	100	9.49	8/29/15	brown, clear	93	92	91	92	91	90	-0.9	393
16		R1506803-016	2.54	50	100	9.17	8/29/15	yellow, clear	94	93	93	93	92	92	-1.4	394
17		R1506803-017	2.52	50	100	9.04	8/29/15	brown, clear	93	91	93	92	90	92	-1	395
18		R1506803-018	2.52	50	100	9.19	8/29/15	black, opaque	93	91	90	93	91	90	0	107
19		R1506803-028	2.59	50	100	9.02	8/29/15	brown, clear	91	91	90	91	91	90	-0.5	142

01100

Cr<sup>6+</sup> Stocks: Standard: WC140066D  
Reference: WC140152H

Insoluble LCS: added 10.2 mg of PbCrO4 per 0.005 kg sample = 4080 mg/kg x 0.161 (%Cr) = 657 mg/kg Cr6+  
Spike Witness: - PbCrO4 Log = WC112292F

Hexavalent Chromium Soils

Method: EPA 3060A FOR ANALYSIS BY 7199 - SECOND DIGESTION (Page 2)

Analyst: C Woods Date: 8/27/15 Pipet ID: Top

ALS Environmental  
Rochester, NY

A) Digest Time Start: 1607 Stop: 1707 B) Digest Time Start: - Stop: -

Filters: Brand: Pall Type: Nylon Membrane Pore Size: 0.45 um. Digest Solution: pH: 13.39

pH Meter ID: pH at Albert Balance ID: R-Balance-01

#	Method	Order #	Sample Amt. (g.)	Digest Sol. (mL)	Final Vol. (mL)	pH Adjust	pH Adjust Date	Filtered Digestate Color/Comments	Deg. C @ # minutes						CF	Therm ID
									Observed			Corrected				
									0	30	60	0	30	60		
1	7199	R1506803-029	2.54	50	100	9.29	8/29/15	black, opaque	93	94	95	93	94	95	0.5	36
2		R1506803-030	2.59	50	100	9.25	8/29/15	black, opaque	95	91	94	95	91	94	0.3	313
3		R1506803-031	2.50	50	100	9.45	8/29/15	brown, clear	91	93	91	93	95	93	0.7	343
4		R1506803-032	2.59	50	100	9.32	8/29/15	black, opaque	93	92	94	94	93	95	0.6	203
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																

*C Woods*  
8/29/15

00111

Cr<sup>6+</sup> Stocks: Standard: WC140066D  
Reference: WC140152H

Insoluble LCS: added - mg of PbCrO4 per - kg sample = - mg/kg x 0.161 (%Cr) = - mg/Kg Cr6+  
Spike Witness: - PbCrO4 Log = WC112202F



Analyst: C Woods  
Date: 8/30/15  
Pipet ID: Bottom

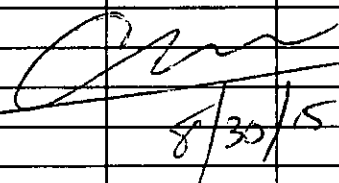
Hexavalent Chromium

Method:        EPA 7196A, Manual Colorimetric  
  ✓   7199, IC  
       218.6, IC

Post-Verification Spike (PVS) Calculations

$$\text{True Value} = \frac{A \times B}{C}$$

Note: Calculations based on sample result and PVS expressed in mg/L before dilution or digest factors

Order #	Original Result mg/L on curve	Vol. (mL) of Spk Added (A)	Conc. (mg/L) of Spk Sol'n (B)	Digestate Vol. (mL) spk'd (C)	PVS True Value (mg/L)	Spike Result (mg/L)	Percent Recovery
R1506803-008	0.0267	0.10	100	10	1.00	1.0106	98.4%
R1506803-008	0.0262	0.10	100	10	1.00	1.0155	98.9%
R1506797-004	<MRL	0.10	100	10	1.00	1.0067	101%
R1506797-004	< MRL	0.10	100	10	1.00	1.0054	101%
							

00112

**Sample Dilutions**

Analyst: Woods  
 Instrument: ICS

Date: 8/29/15  
 Analysis: 7199

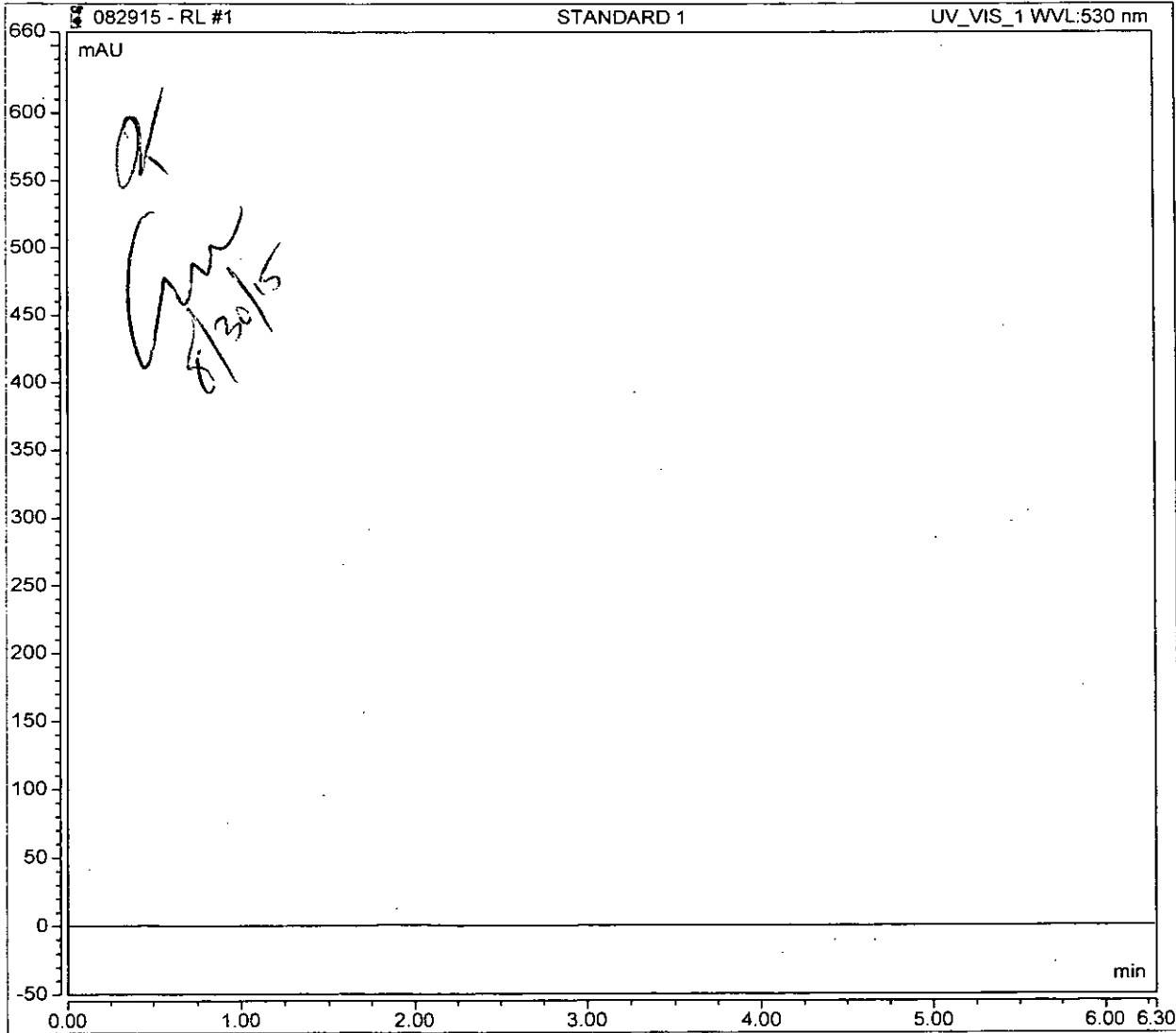
	Sample ID	1st Dilution			2nd Dilution			3rd Dilution			
		mL's of Sample	mL's of Diluent	Matrix of Diluent	Dilution Factor	mL's of 1st Dilution	mL's of Diluent	Dilution Factor	mL's of 2nd Dilution	mL's of Diluent	Dilution Factor
1	Soil LSS	0.5	9.5	buffered DI	20						
2	6803-008 SOL	5	5	↓	2						
3	6803-008 INSOL	0.5	9.5	↓	20						
4	6803-008 PVS	5	5	↓	2						
5	Soil LCS	0.5	9.5	↓	20						
6	6797-004 SOL	5	5	↓	2						
7	6797-004 INSOL	0.5	9.5	↓	20						
8	6797-004 PVS	5	5	↓	2						
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											

*Woods*  
 8/29/15

### Peak Integration Report

Sample Name:	STANDARD 1	Inj. Vol.:	300.00
Injection Type:	Calibration Standard	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	1
Inj. Date / Time:	29-Aug-2015 / 10:23	Sample Comment:	7199/218.6 RL

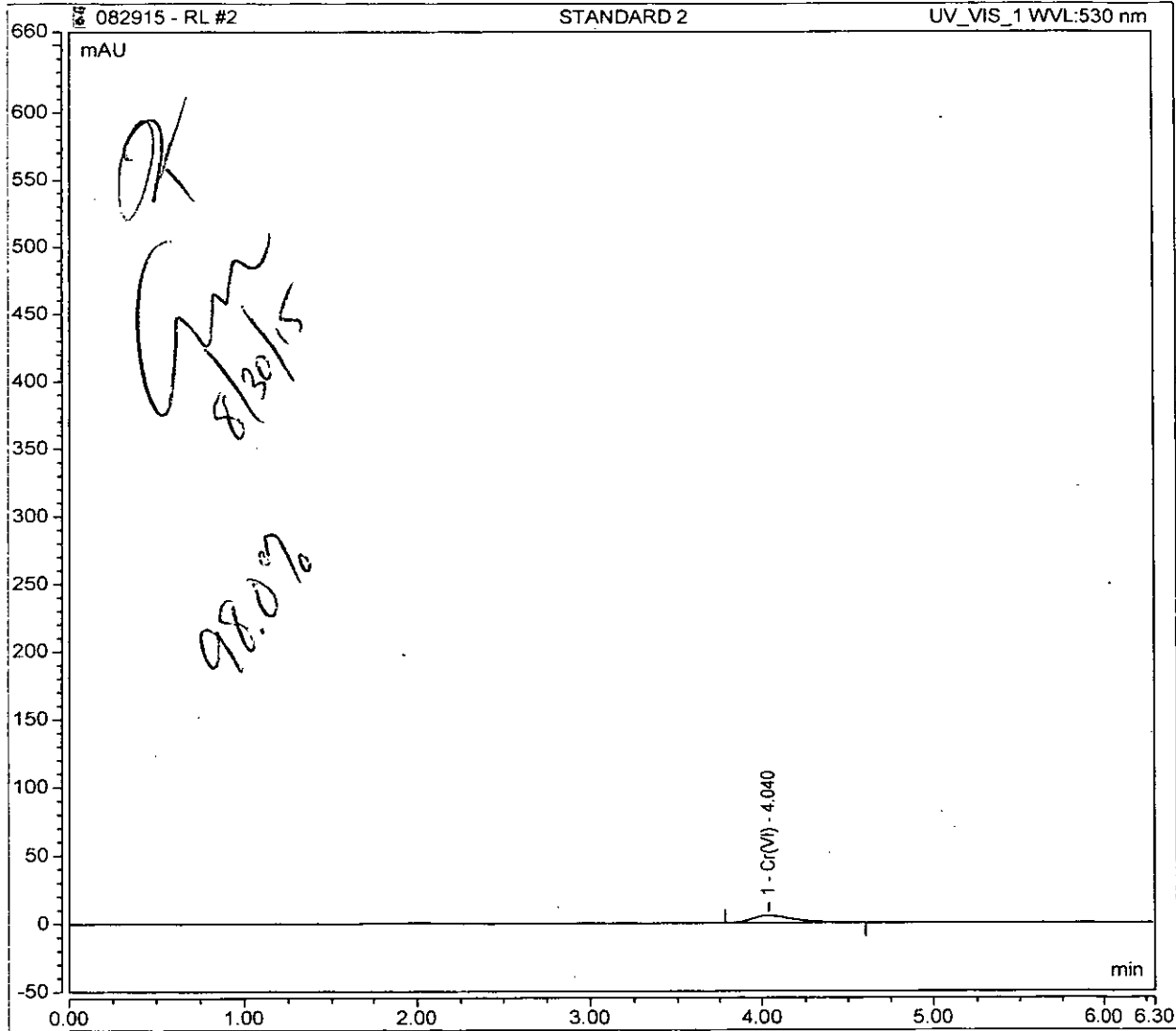
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount n.a.
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### Peak Integration Report

Sample Name:	STANDARD 2	Inj. Vol.:	300.00
Injection Type:	Calibration Standard	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	2
Inj. Date / Time:	29-Aug-2015 / 10:31	Sample Comment:	7199/218.6 RL

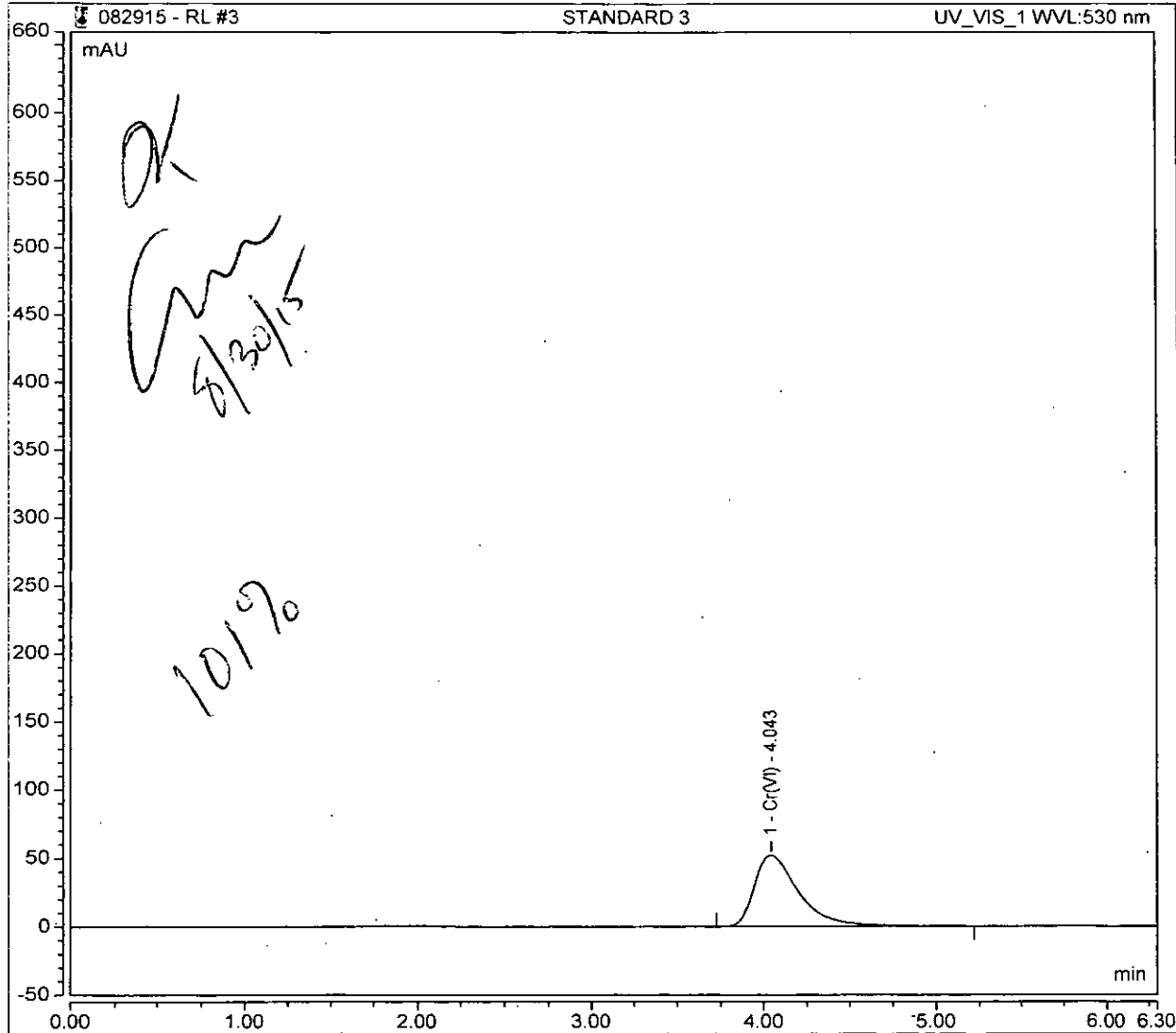
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	4.04	Cr(VI)	BMB	1.493	5.208	0.0098



### Peak Integration Report

Sample Name:	STANDARD 3	Inj. Vol.:	300.00
Injection Type:	Calibration Standard	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	3
Inj. Date / Time:	29-Aug-2015 / 10:40	Sample Comment:	7199/218.6 RL

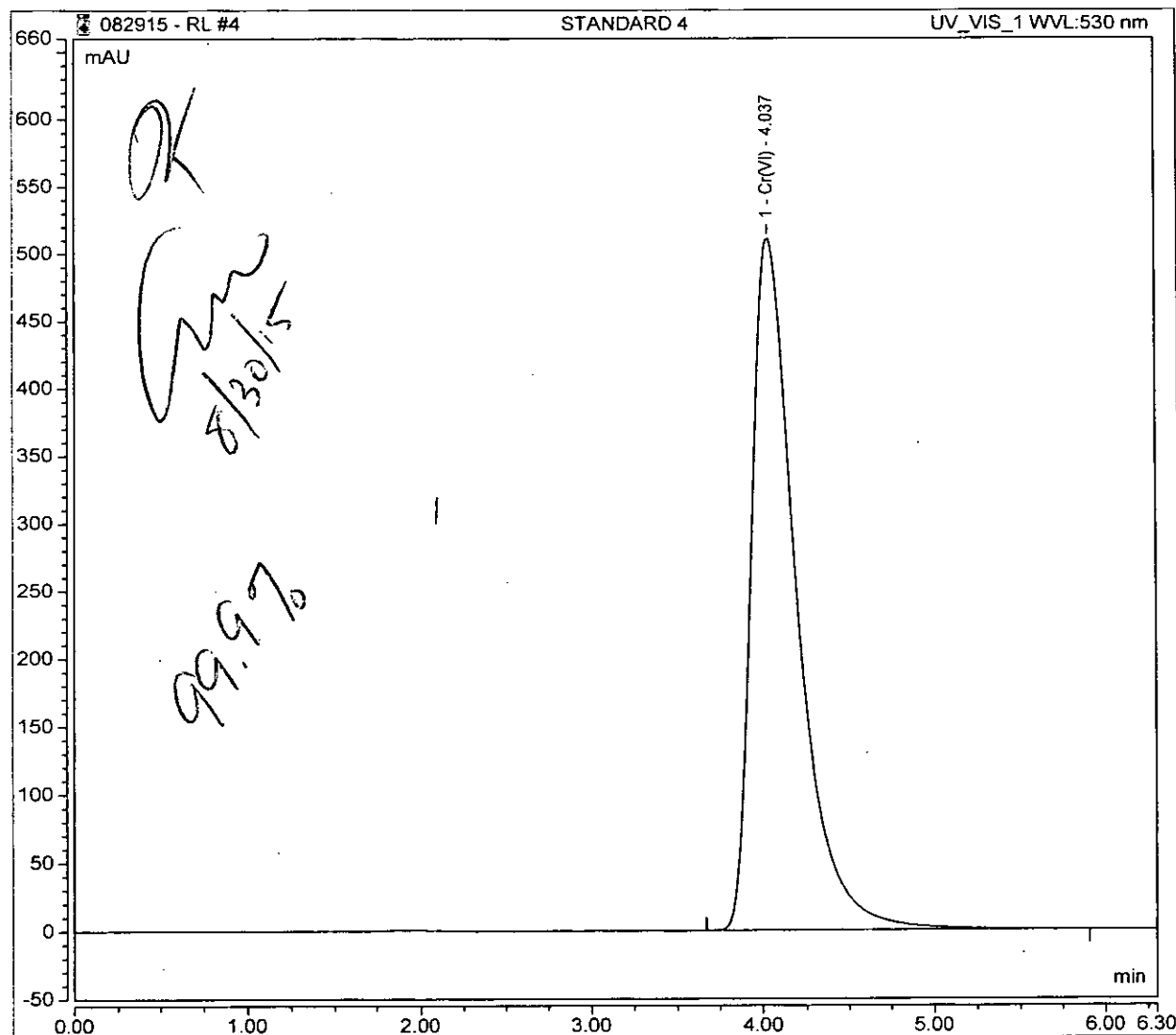
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	4.04	Cr(VI)	BMB	15.579	52.263	0.1012



### Peak Integration Report

Sample Name:	STANDARD 4	Inj. Vol.:	300.00
Injection Type:	Calibration Standard	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	4
Inj. Date / Time:	29-Aug-2015 / 10:48	Sample Comment:	7199/218.6 RL

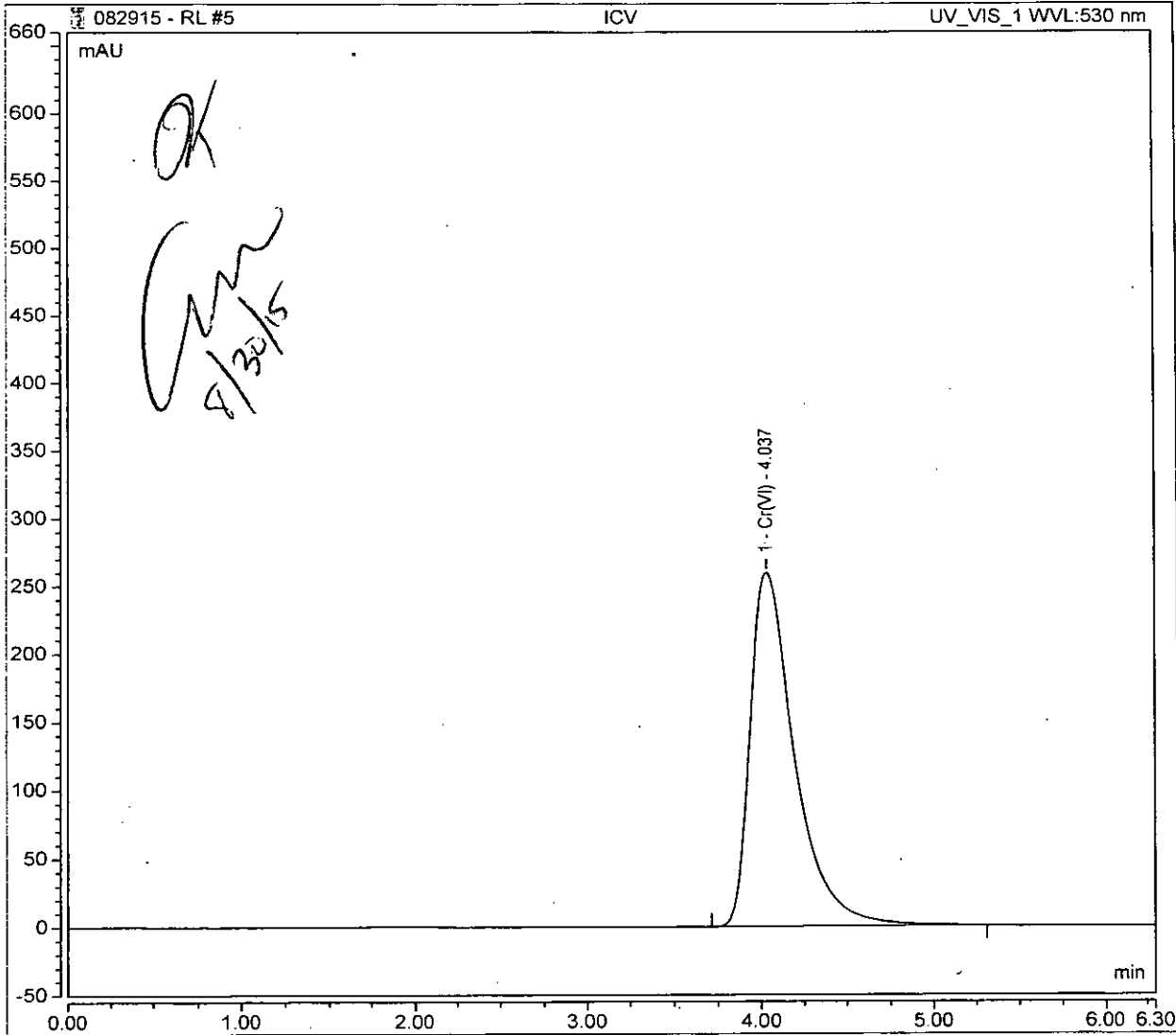
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	4.04	Cr(VI)	BMB	153.913	511.163	0.9990



### Peak Integration Report

Sample Name:	ICV	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	5
Inj. Date / Time:	29-Aug-2015 / 10:57	Sample Comment:	7199/218.6 RL

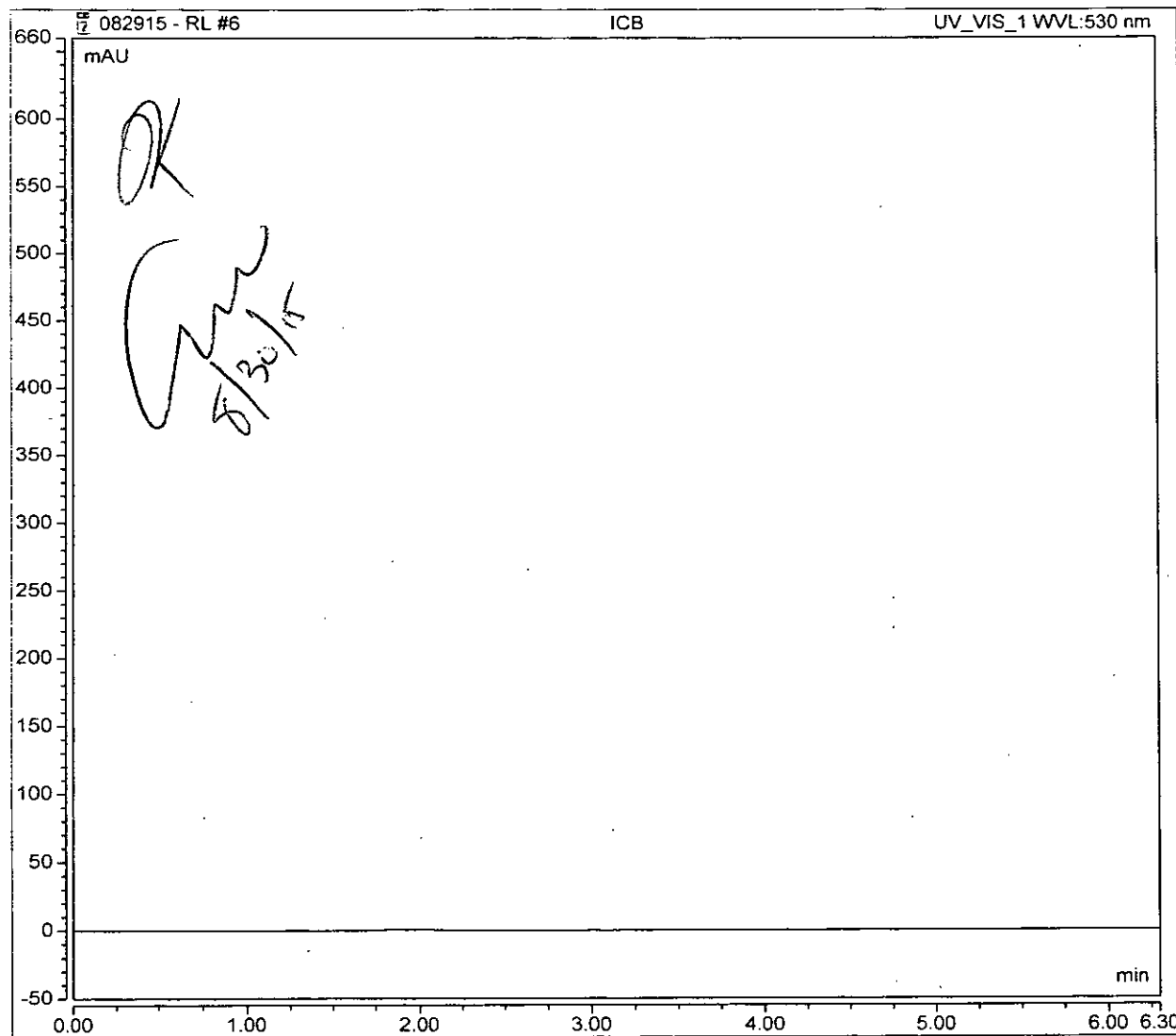
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	4.04	Cr(VI)	BMB	77.443	259.614	0.5027



### Peak Integration Report

Sample Name:	ICB	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	6
Inj. Date / Time:	29-Aug-2015 / 11:05	Sample Comment:	7199/218.6 RL

No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount n.a.
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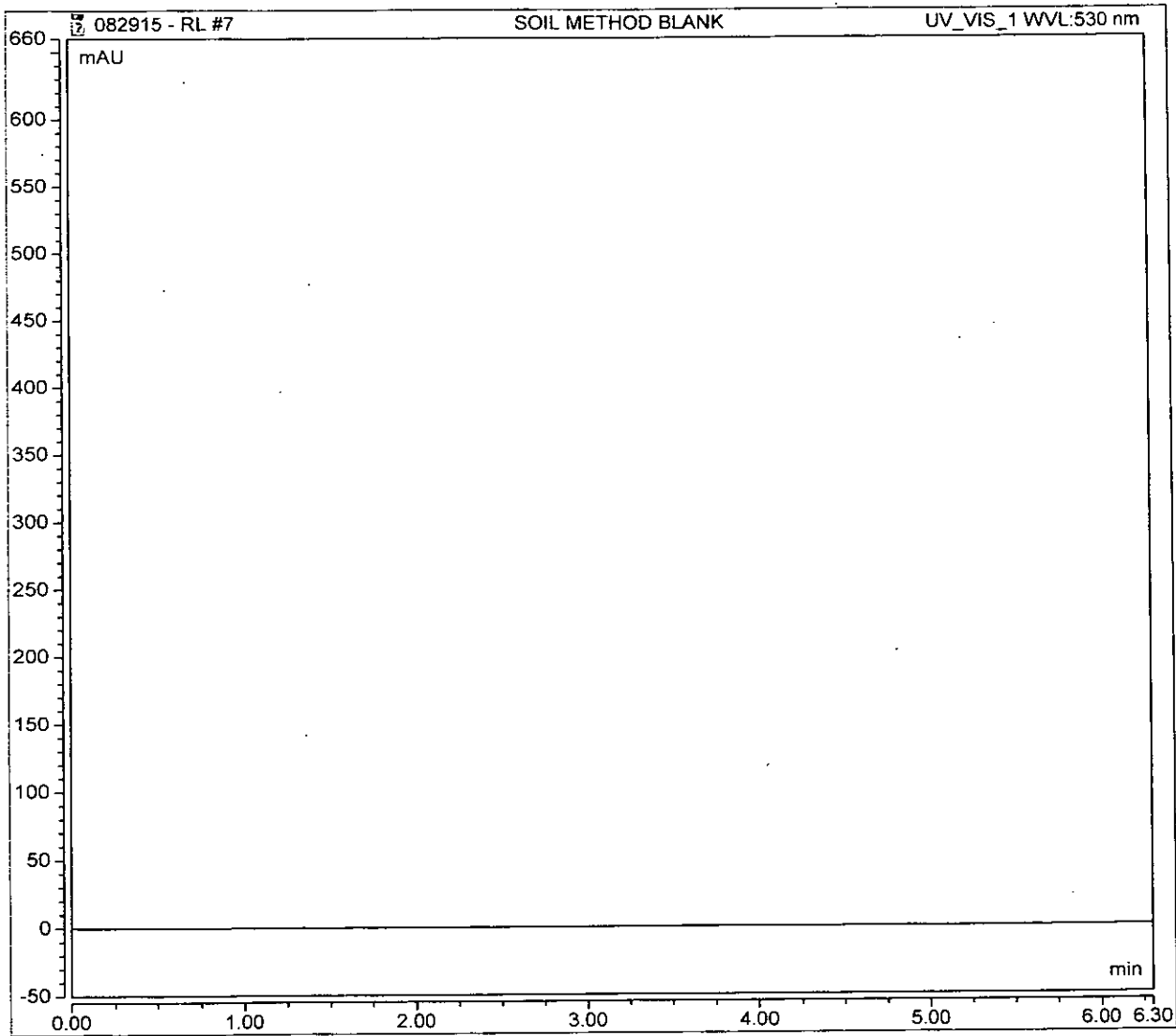




### Peak Integration Report

Sample Name:	SOIL METHOD BLANK	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	7
Inj. Date / Time:	29-Aug-2015 / 11:13	Sample Comment:	7199

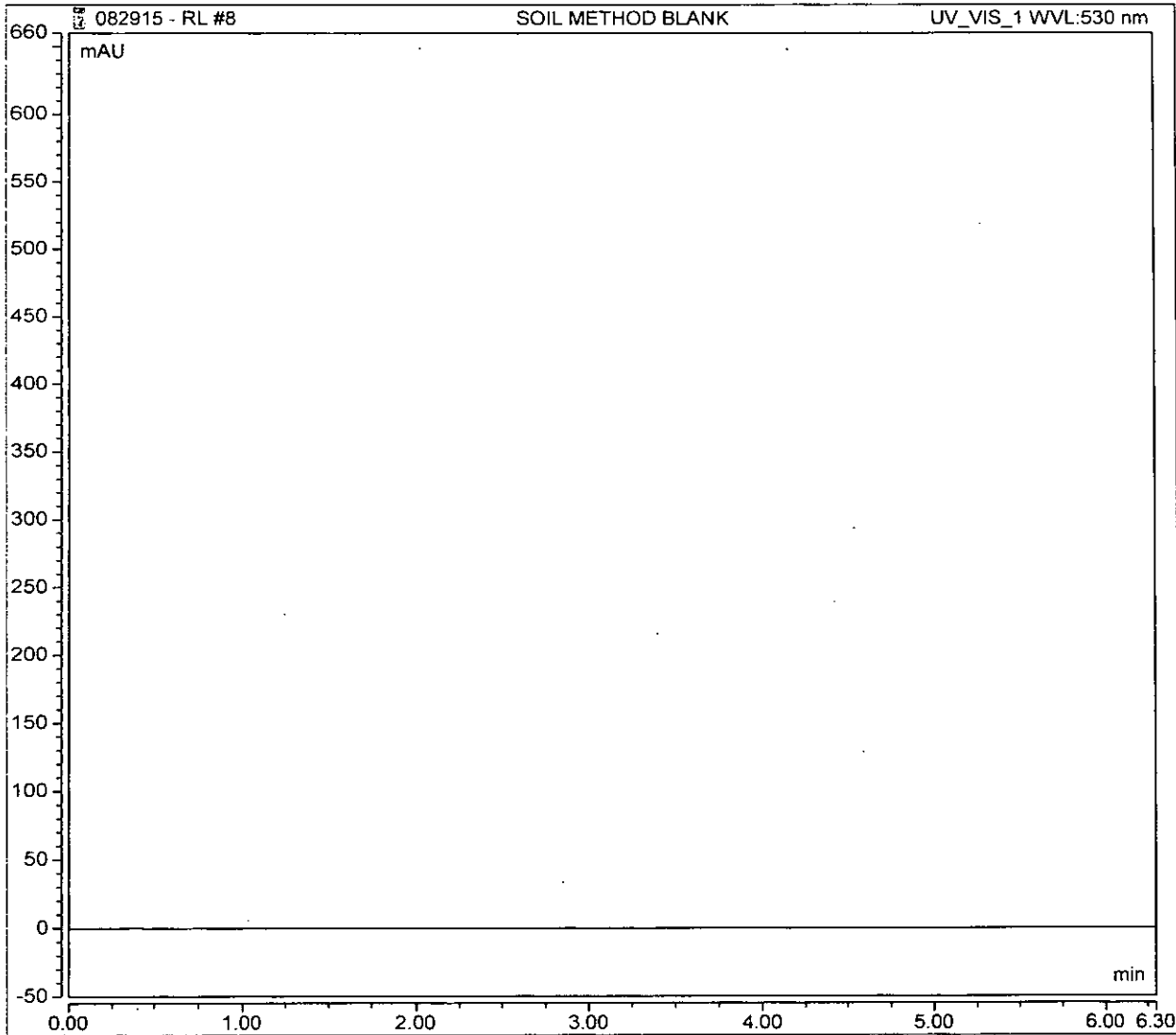
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount n.a.
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### Peak Integration Report

Sample Name:	SOIL METHOD BLANK	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	8
Inj. Date / Time:	29-Aug-2015 / 11:22	Sample Comment:	7199 REPLICATE

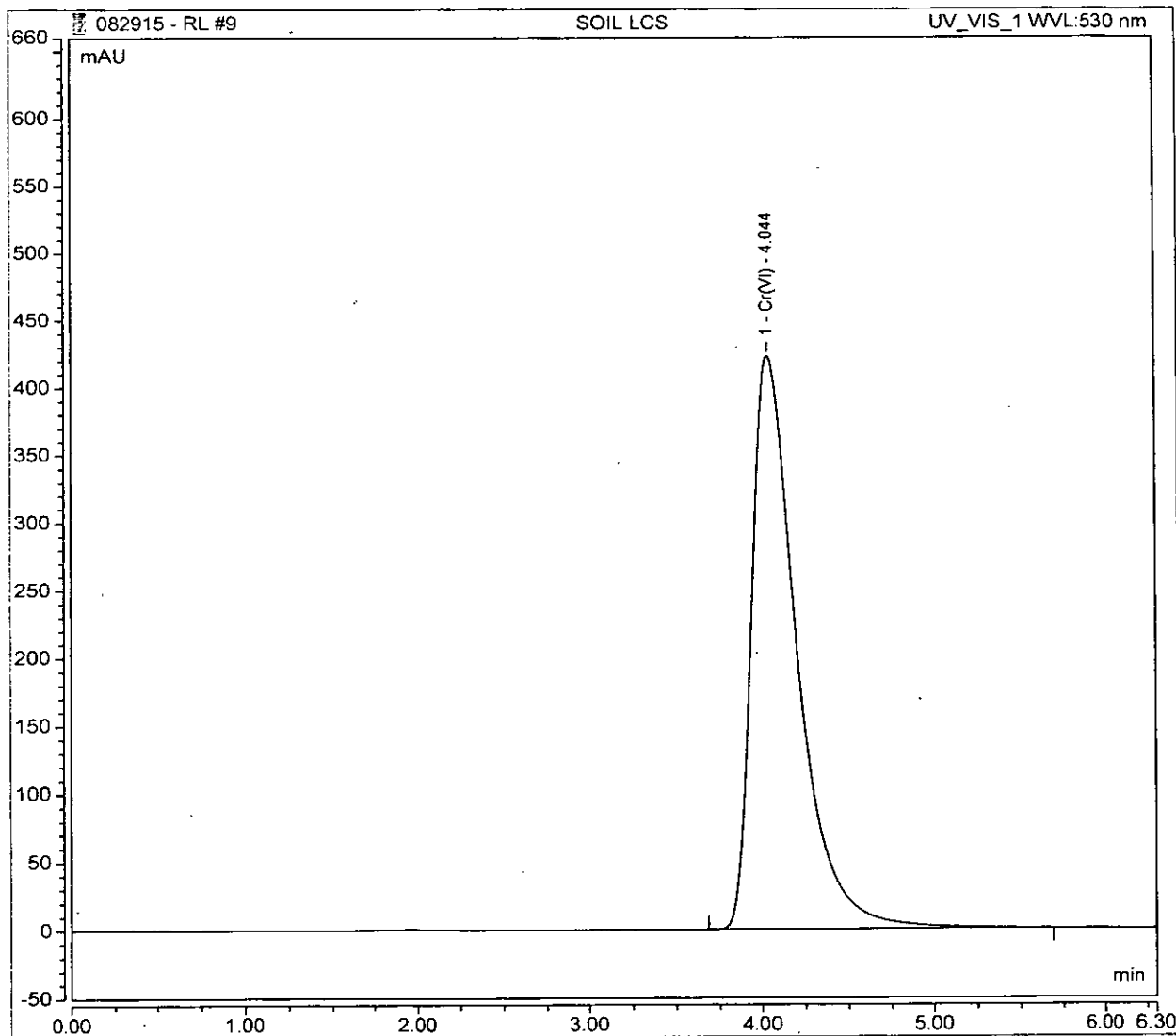
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount n.a.
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### Peak Integration Report

Sample Name:	SOIL LCS	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	20.0000
Processing Method:	5-082915 RL	Injection Number:	9
Inj. Date / Time:	29-Aug-2015 / 11:29	Sample Comment:	7199

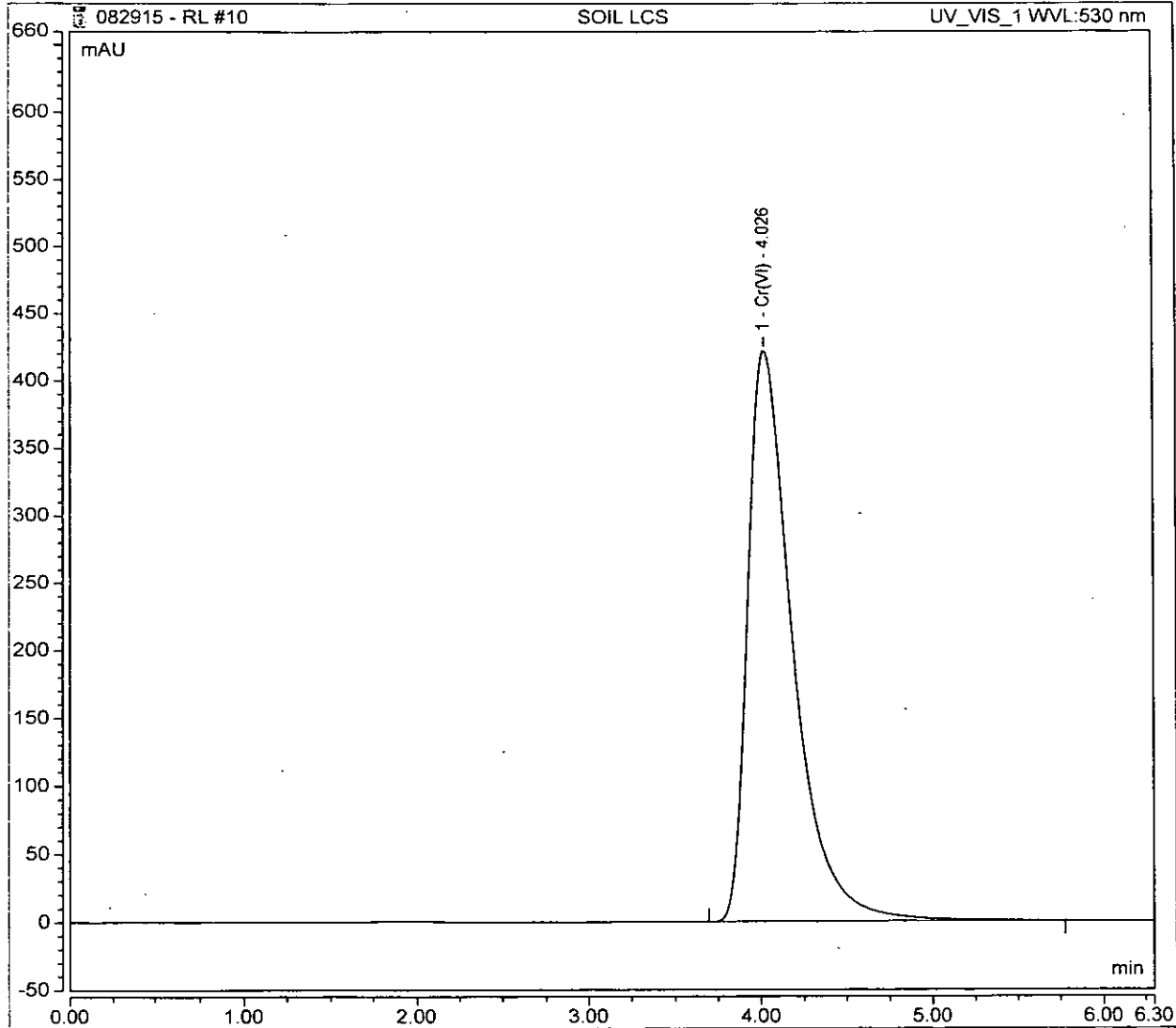
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	4.04	Cr(VI)	BMB	128.775	422.951	16.7171



### Peak Integration Report

Sample Name:	SOIL LCS	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	20.0000
Processing Method:	5-082915 RL	Injection Number:	10
Inj. Date / Time:	29-Aug-2015 / 11:37	Sample Comment:	7199 REPLICATE

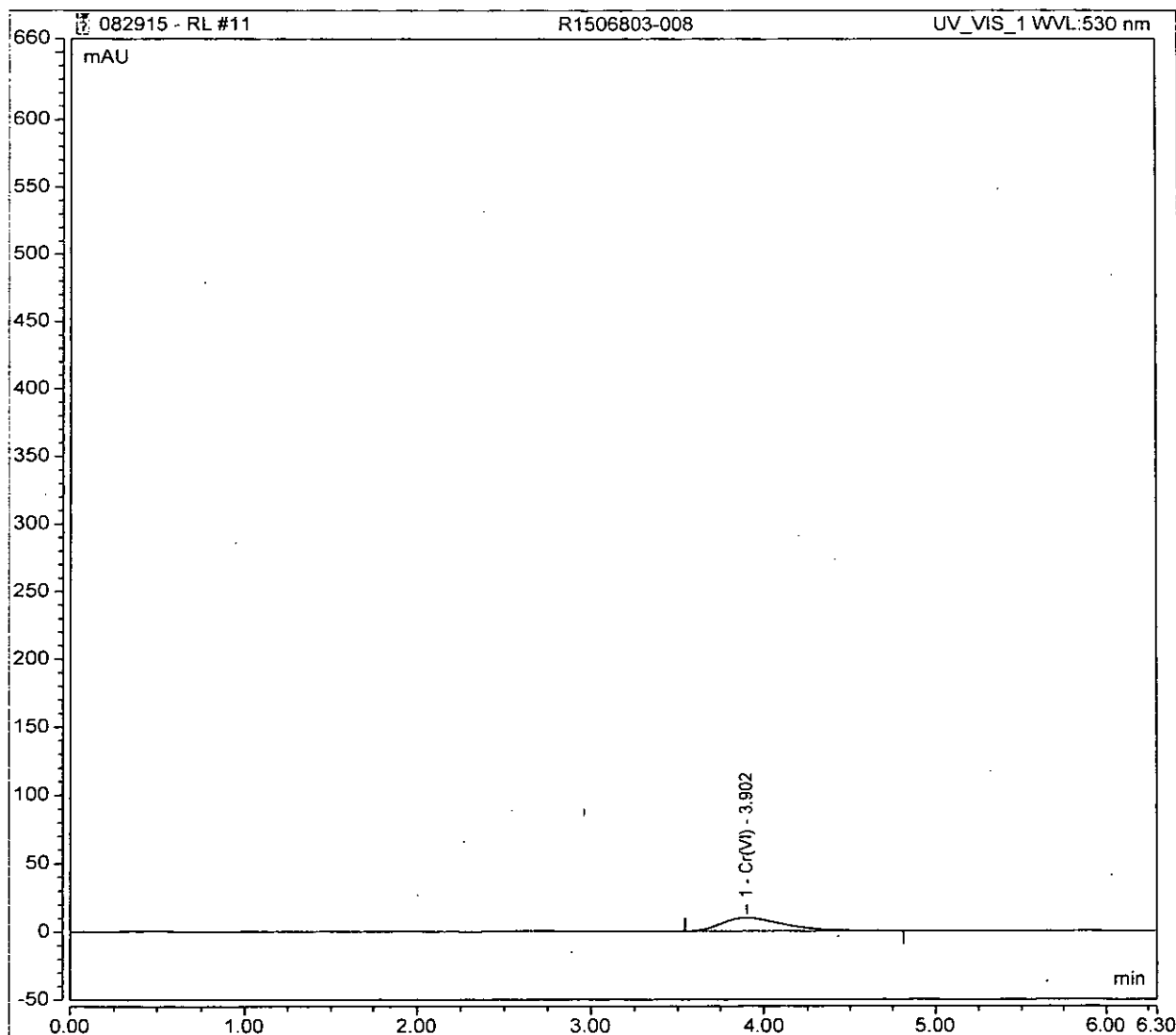
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	4.03	Cr(VI)	BMB	128.130	422.046	16.6334



### Peak Integration Report

Sample Name:	R1506803-008	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	11
Inj. Date / Time:	29-Aug-2015 / 11:44	Sample Comment:	7199

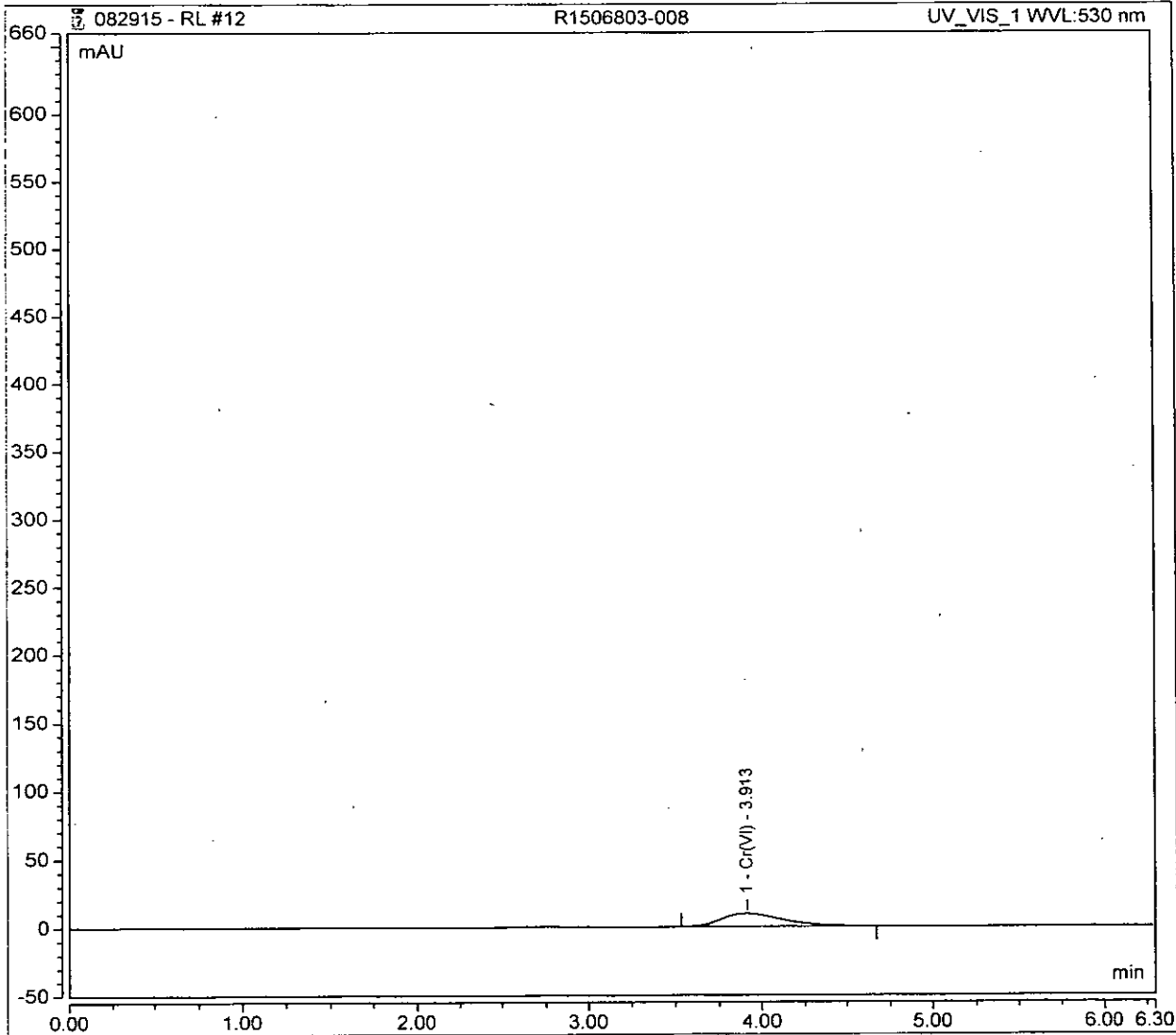
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	3.90	Cr(VI)	BMB	4.093	9.782	0.0267



### Peak Integration Report

Sample Name:	R1506803-008	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	12
Inj. Date / Time:	29-Aug-2015 / 11:53	Sample Comment:	7199 REPLICATE

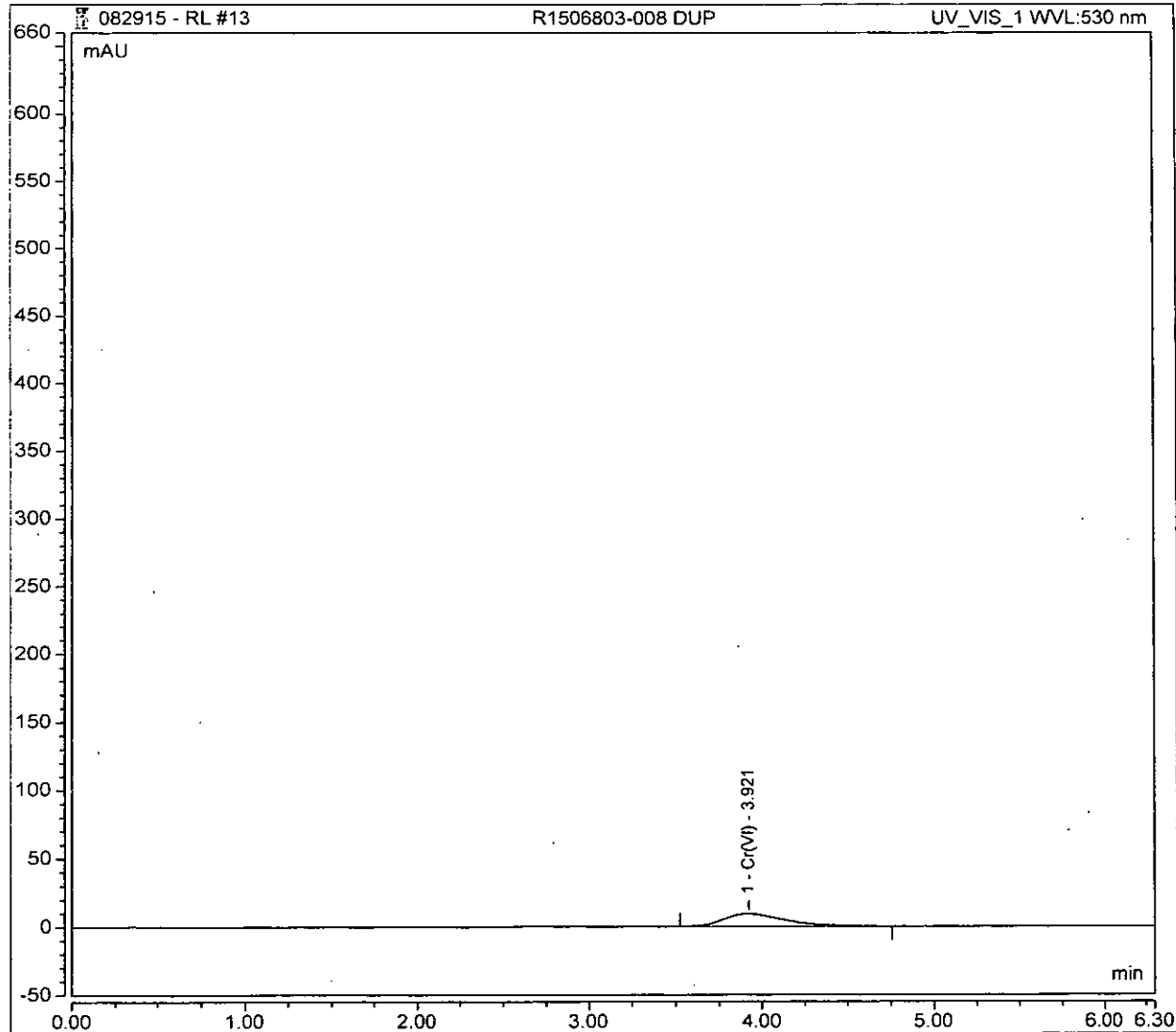
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	3.91	Cr(VI)	BMB	4.020	9.682	0.0262



### Peak Integration Report

Sample Name:	R1506803-008 DUP	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	13
Inj. Date / Time:	29-Aug-2015 / 12:00	Sample Comment:	7199

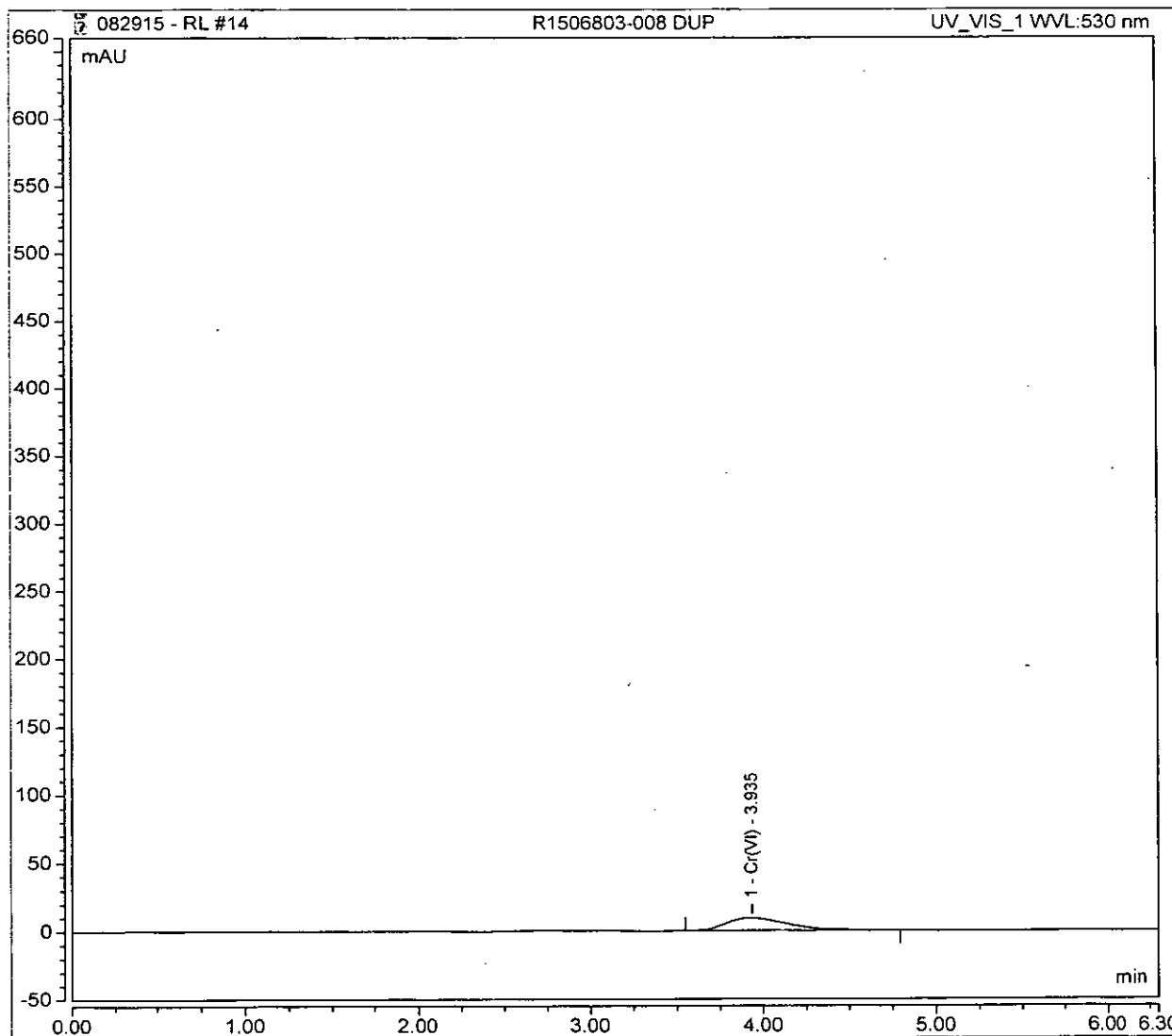
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	3.92	Cr(VI)	BMB	3.809	9.255	0.0248



### Peak Integration Report

Sample Name:	R1506803-008 DUP	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	14
Inj. Date / Time:	29-Aug-2015 / 12:08	Sample Comment:	7199 REPLICATE

No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	3.93	Cr(VI)	BMB	3.835	9.271	0.0250

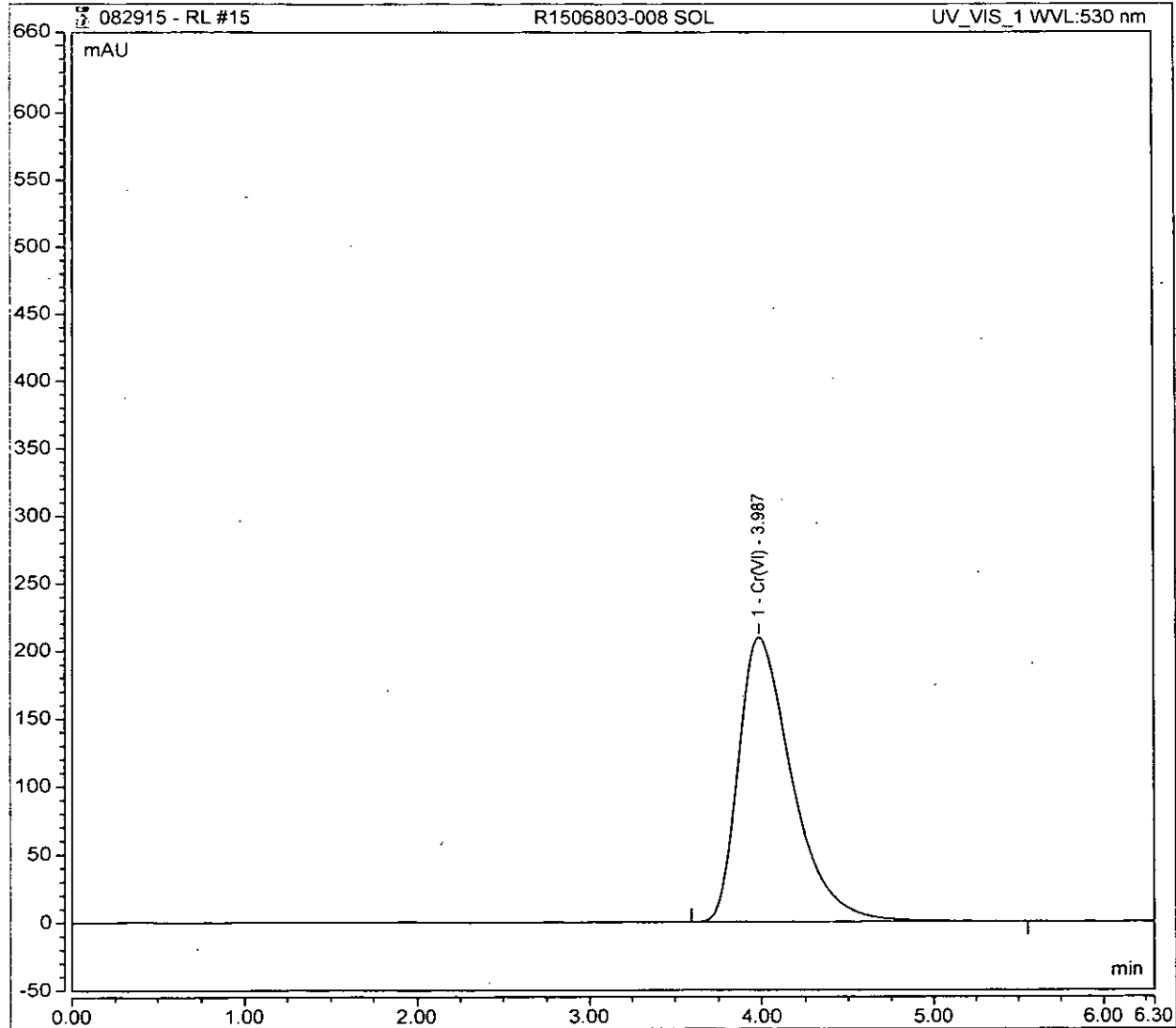




### Peak Integration Report

Sample Name:	R1506803-008 SOL	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	2.0000
Processing Method:	5-082915 RL	Injection Number:	15
Inj. Date / Time:	29-Aug-2015 / 12:16	Sample Comment:	7199

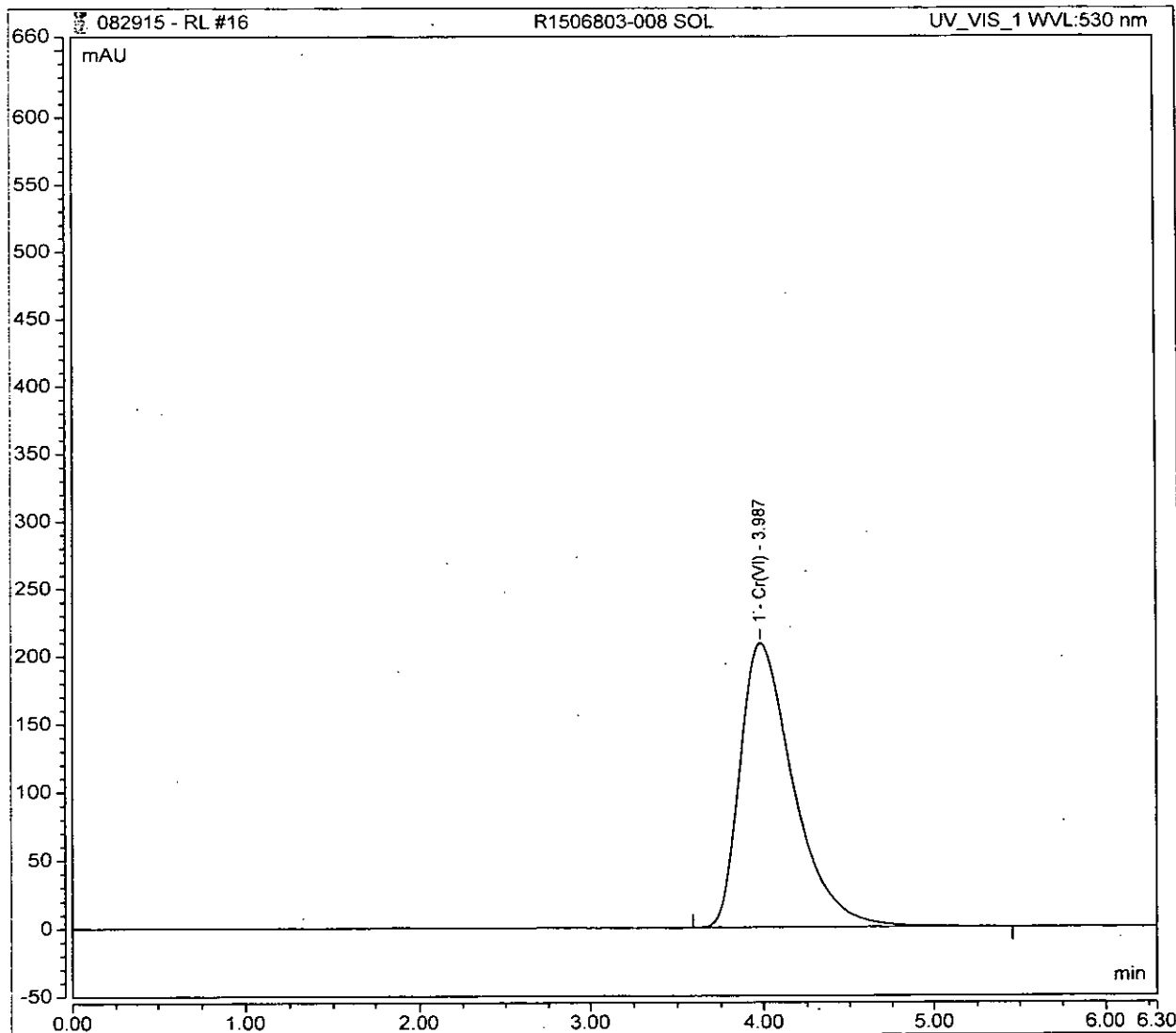
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	3.99	Cr(VI)	BMB	75.153	209.679	0.9757



### Peak Integration Report

Sample Name:	R1506803-008 SOL	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	2.0000
Processing Method:	5-082915 RL	Injection Number:	16
Inj. Date / Time:	29-Aug-2015 / 12:24	Sample Comment:	7199 REPLICATE

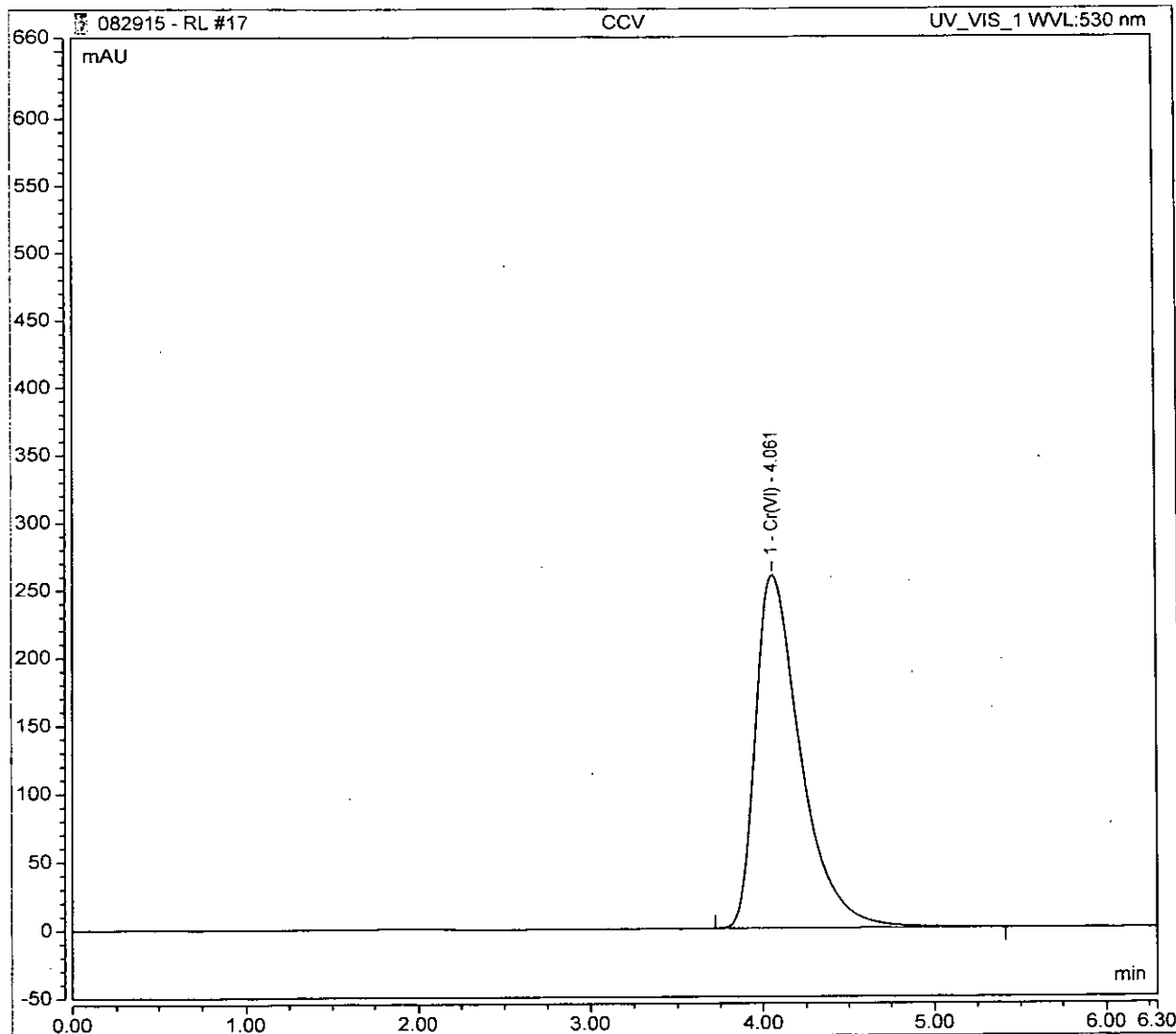
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	3.99	Cr(VI)	BMB	75.276	209.259	0.9773



### Peak Integration Report

Sample Name:	CCV	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	17
Inj. Date / Time:	29-Aug-2015 / 12:31	Sample Comment:	7199/218.6 RL

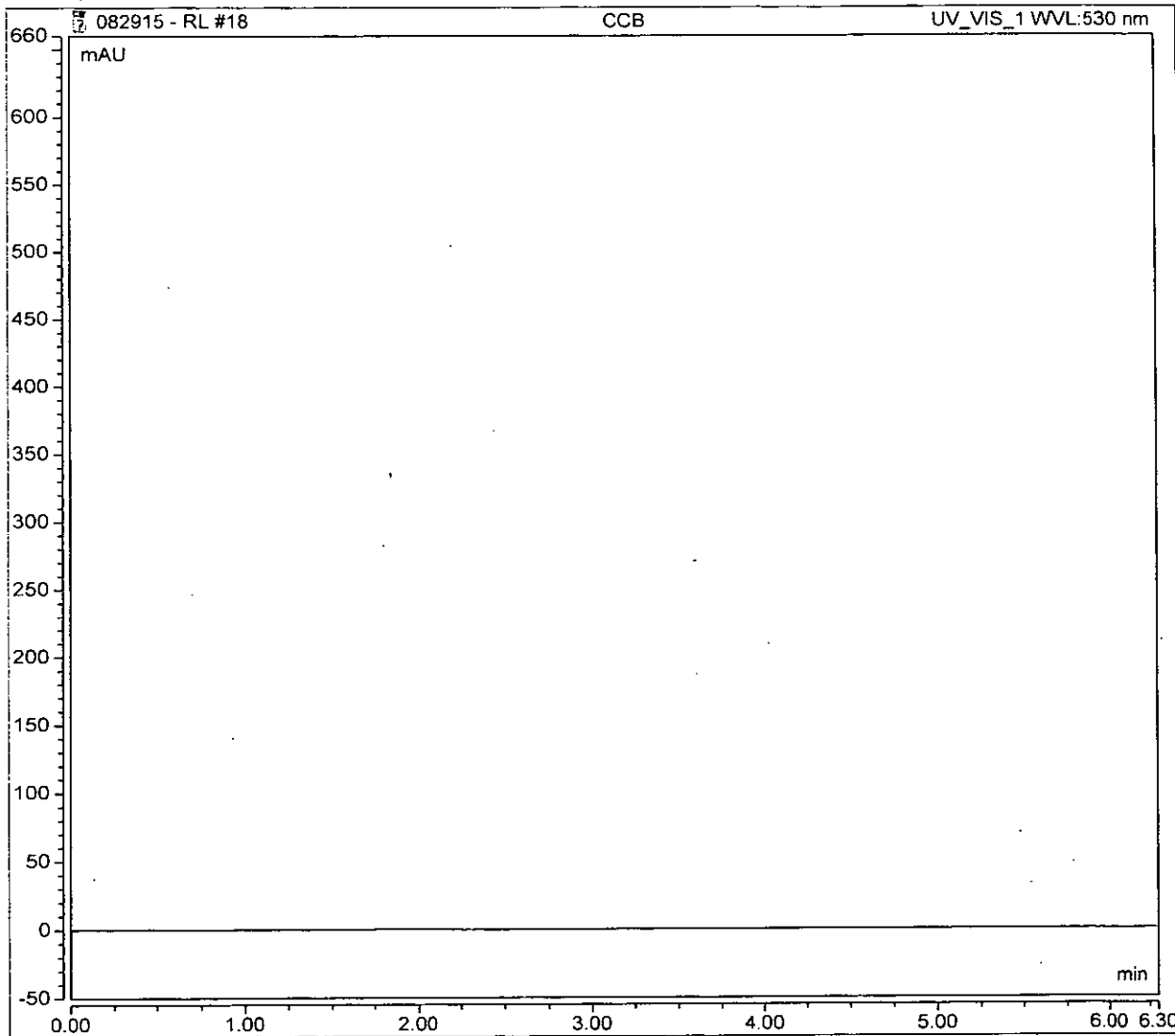
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	4.06	Cr(VI)	BMB	78.862	259.949	0.5119



### Peak Integration Report

Sample Name:	CCB	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	18
Inj. Date / Time:	29-Aug-2015 / 12:40	Sample Comment:	7199/218.6 RL

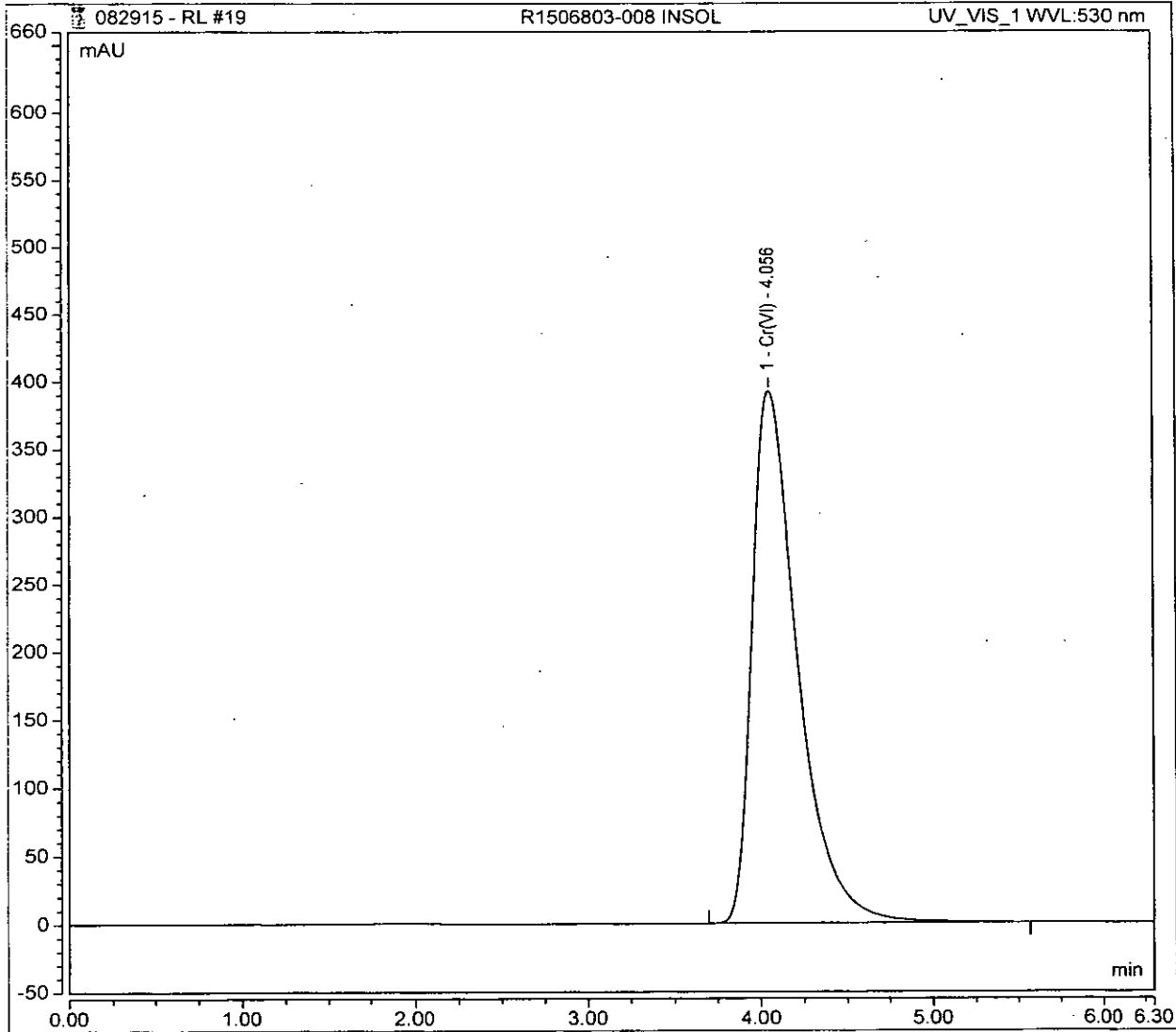
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount n.a.
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### Peak Integration Report

Sample Name:	R1506803-008 INSOL	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	20.0000
Processing Method:	5-082915 RL	Injection Number:	19
Inj. Date / Time:	29-Aug-2015 / 12:52	Sample Comment:	7199

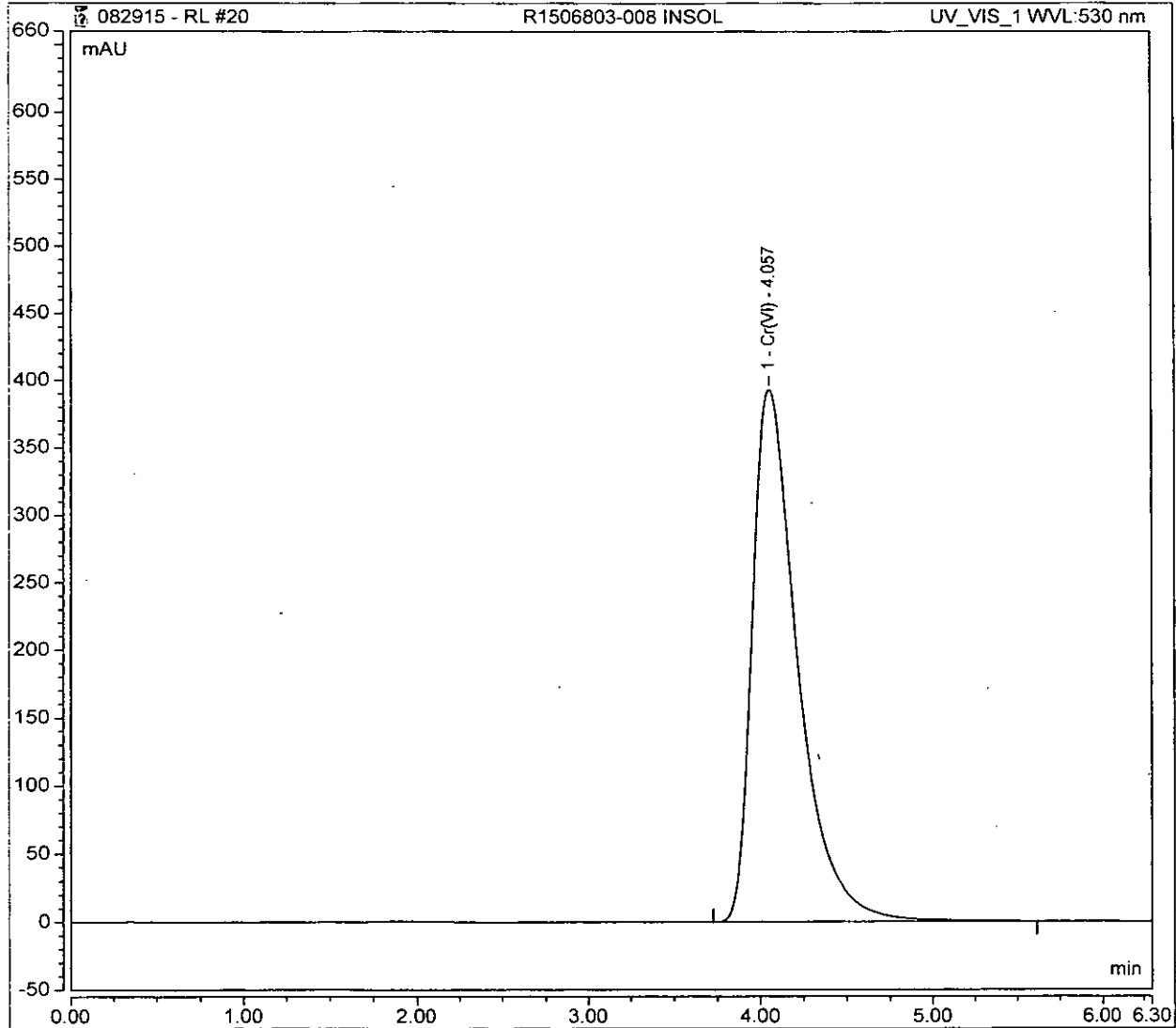
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	4.06	Cr(VI)	BMB	119.371	392.681	15.4964



### Peak Integration Report

Sample Name:	R1506803-008 INSOL	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	20.0000
Processing Method:	5-082915 RL	Injection Number:	20
Inj. Date / Time:	29-Aug-2015 / 13:00	Sample Comment:	7199 REPLICATE

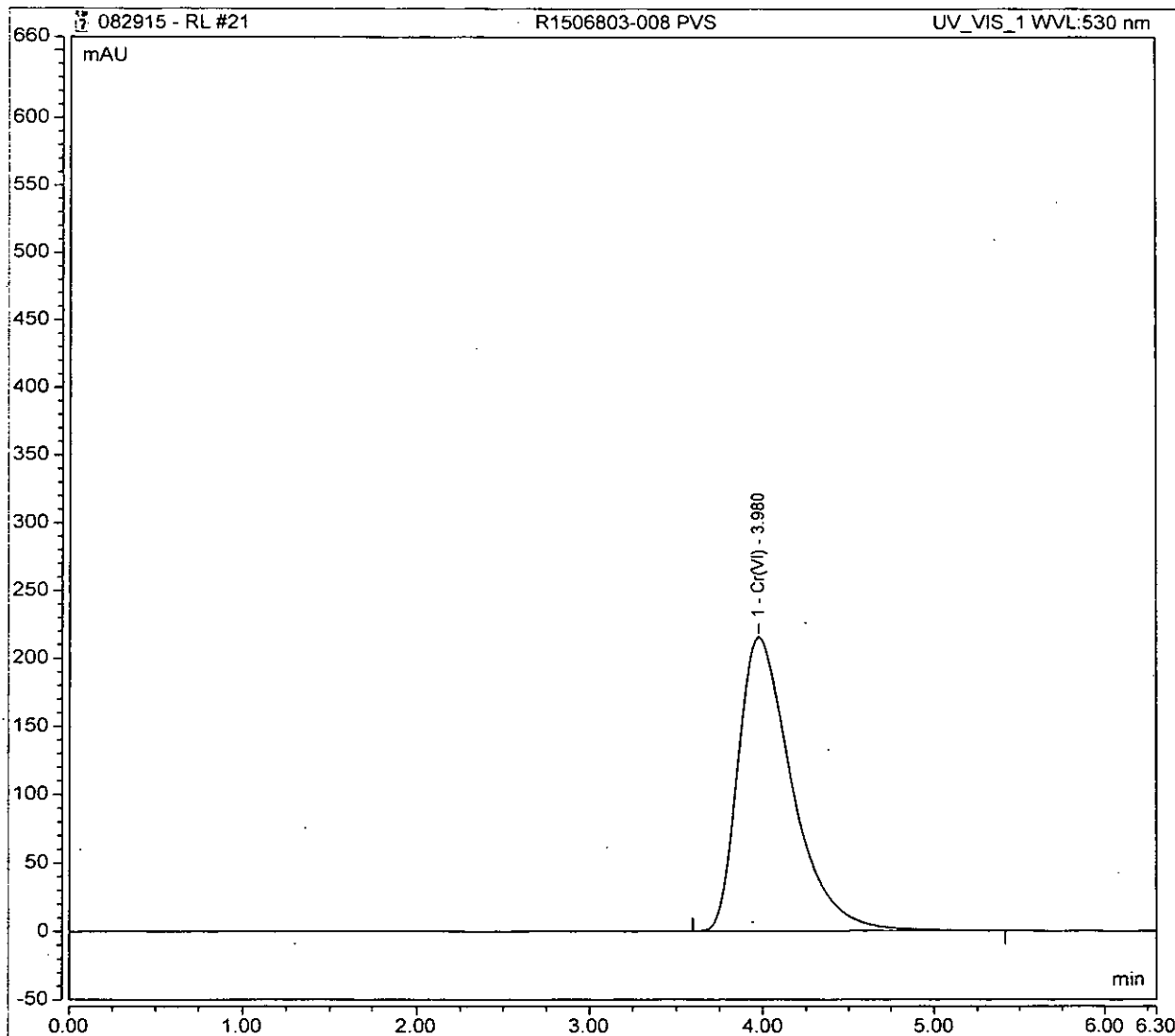
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	4.06	Cr(VI)	BMB	119.585	393.308	15.5243



### Peak Integration Report

Sample Name:	R1506803-008 PVS	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	2.0000
Processing Method:	5-082915 RL	Injection Number:	21
Inj. Date / Time:	29-Aug-2015 / 13:07	Sample Comment:	7199

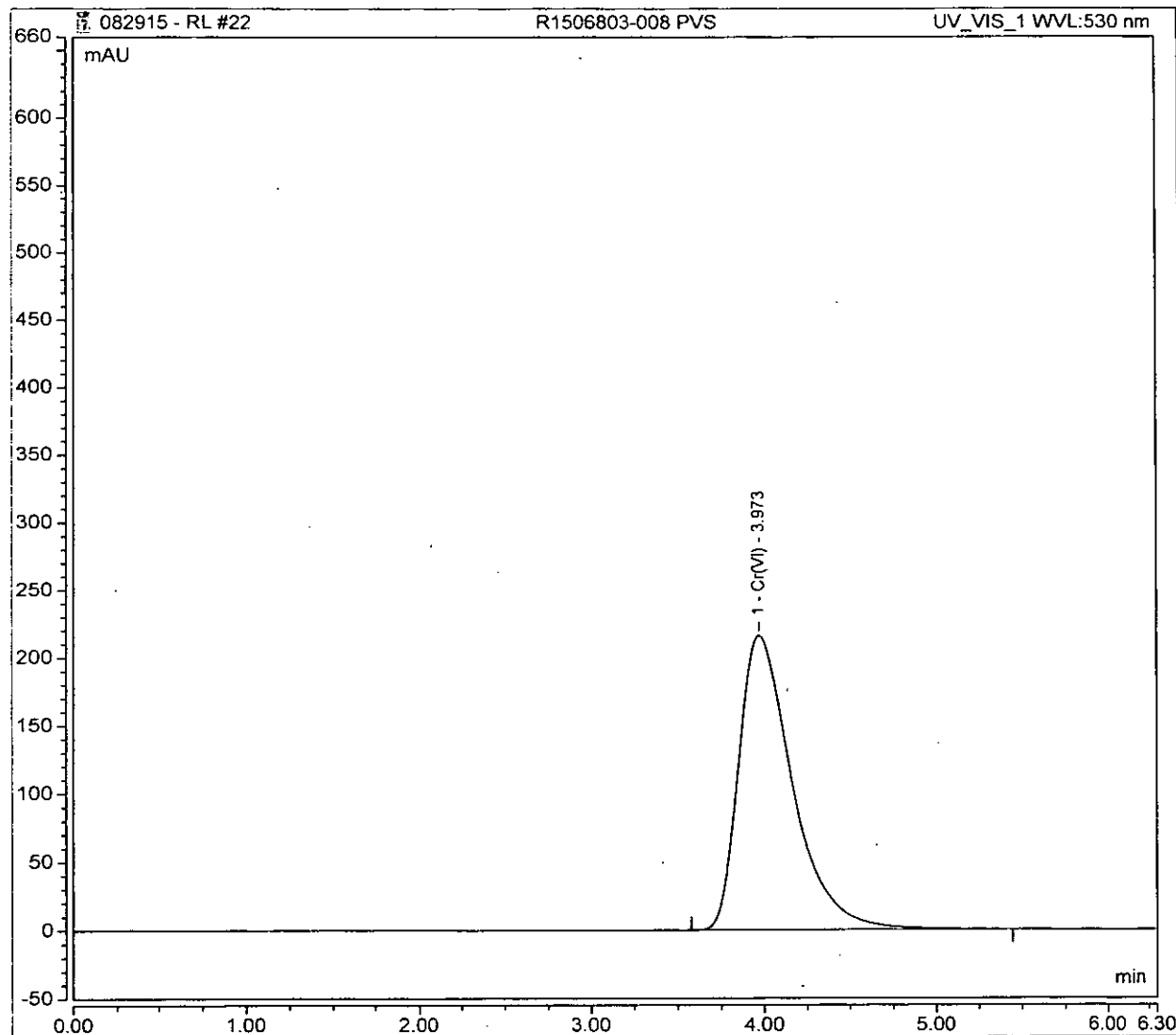
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	3.98	Cr(VI)	BMB	77.840	215.821	1.0106



### Peak Integration Report

Sample Name:	R1506803-008 PVS	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	2.0000
Processing Method:	5-082915 RL	Injection Number:	22
Inj. Date / Time:	29-Aug-2015 / 13:16	Sample Comment:	7199 REPLICATE

No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	3.97	Cr(VI)	BMB	78.221	216.448	1.0155

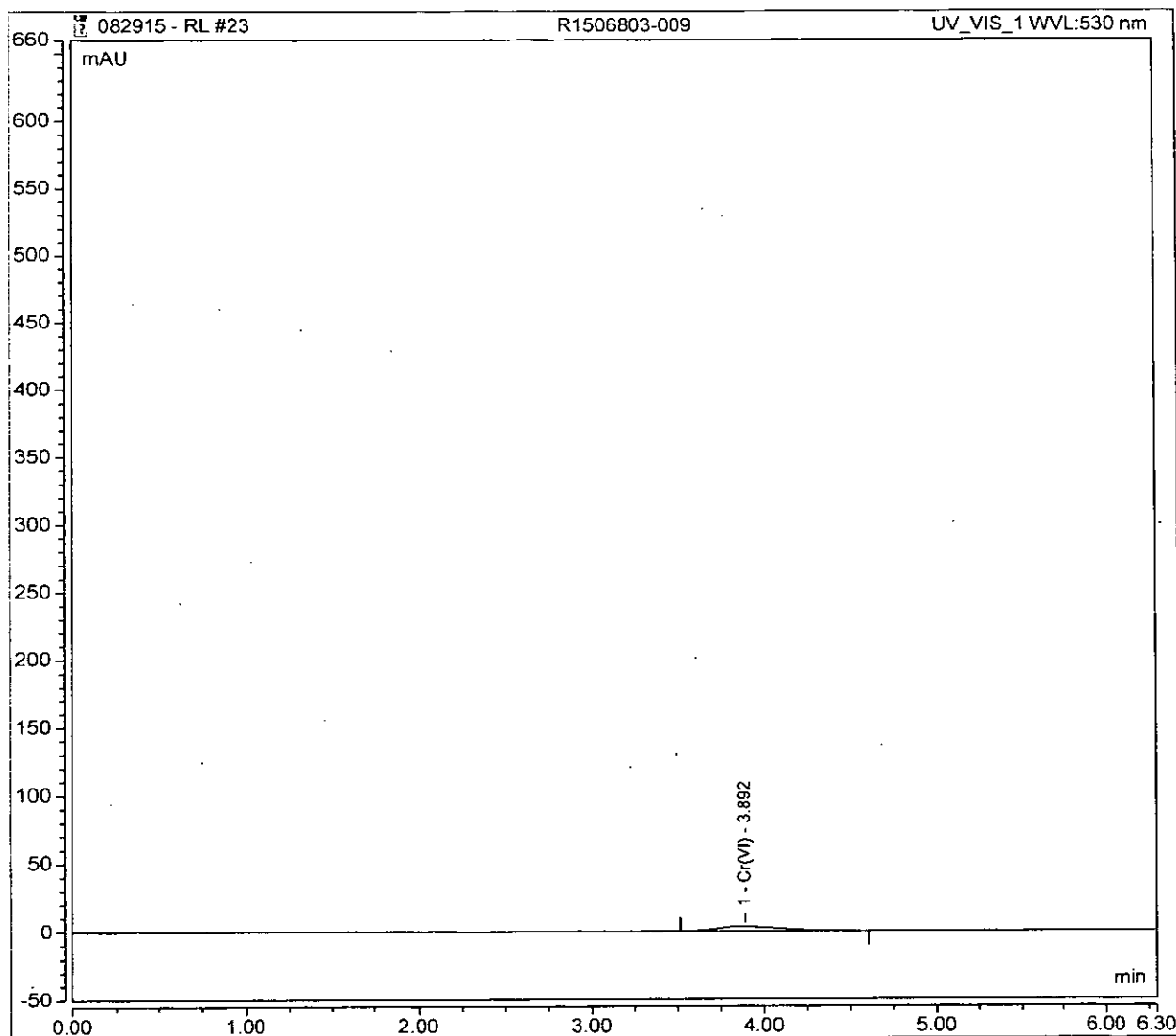




### Peak Integration Report

Sample Name:	R1506803-009	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	23
Inj. Date / Time:	29-Aug-2015 / 13:23	Sample Comment:	7199

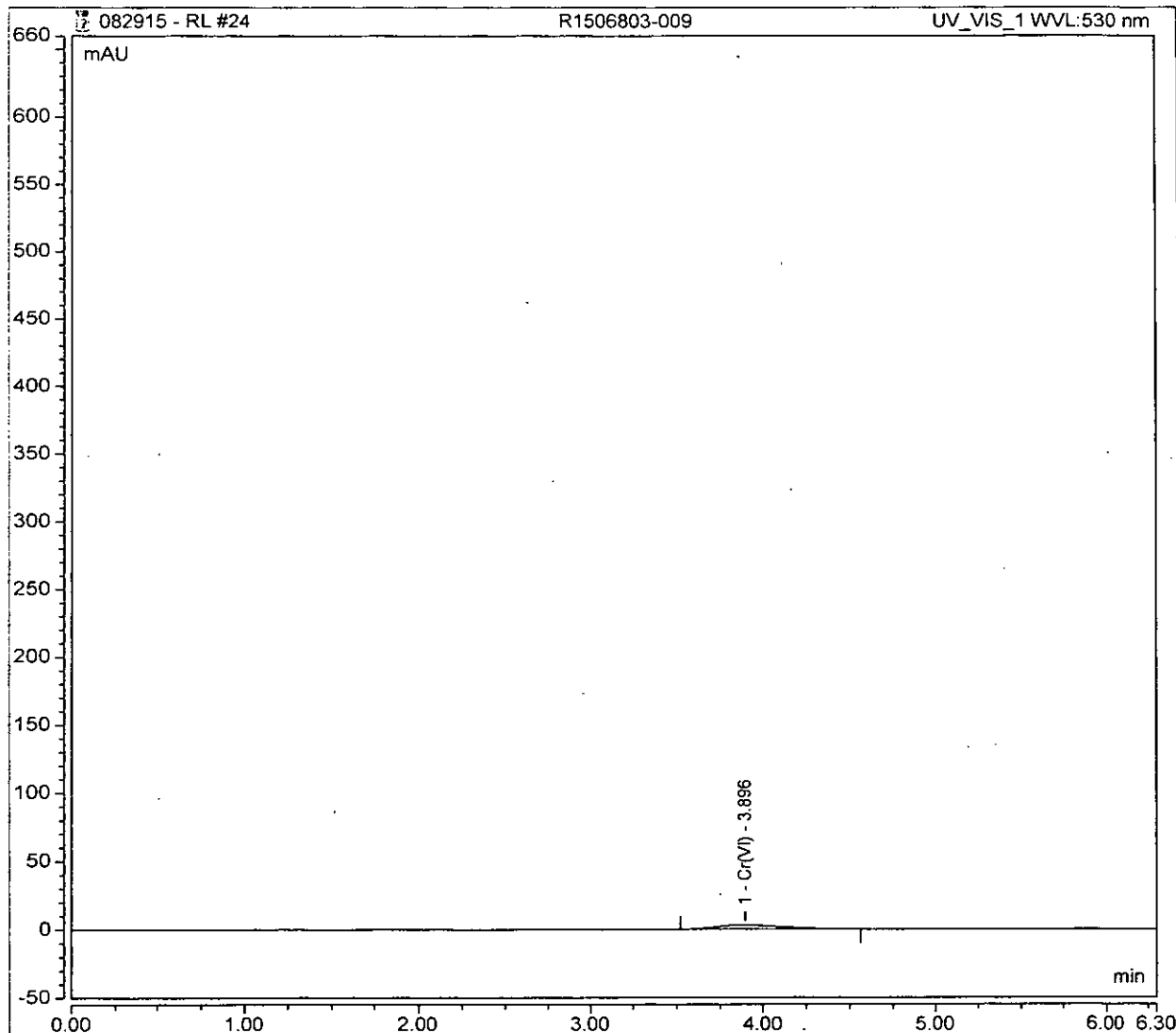
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	3.89	Cr(VI)	BMB	1.371	3.275	0.0090



### Peak Integration Report

Sample Name:	R1506803-009	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	24
Inj. Date / Time:	29-Aug-2015 / 13:31	Sample Comment:	7199 REPLICATE

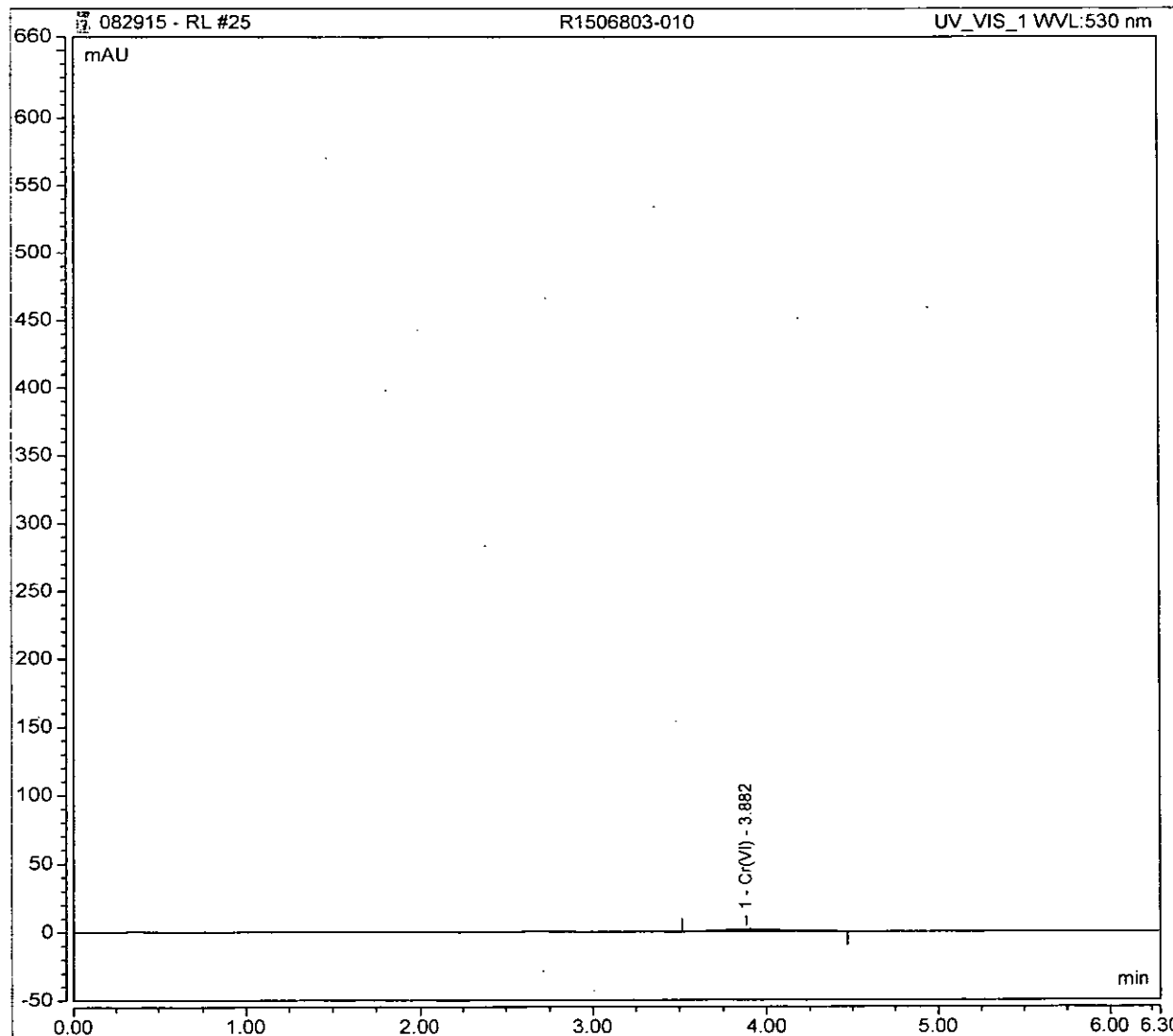
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	3.90	Cr(VI)	BMB	1.360	3.246	0.0089



### Peak Integration Report

Sample Name:	R1506803-010	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	25
Inj. Date / Time:	29-Aug-2015 / 13:38	Sample Comment:	7199

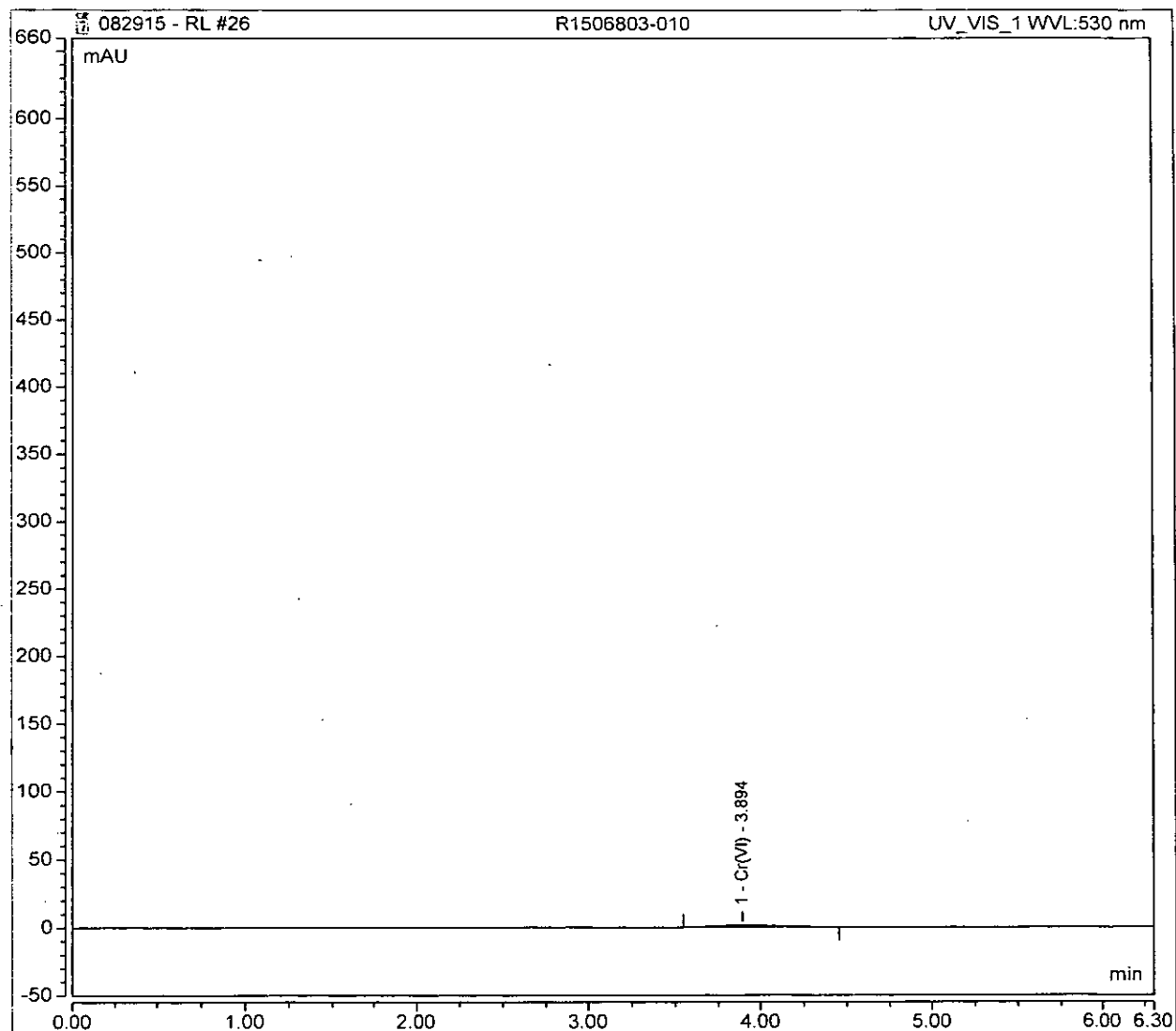
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	3.88	Cr(VI)	BMB	0.632	1.679	0.0042



### Peak Integration Report

Sample Name:	R1506803-010	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	26
Inj. Date / Time:	29-Aug-2015 / 13:47	Sample Comment:	7199 REPLICATE

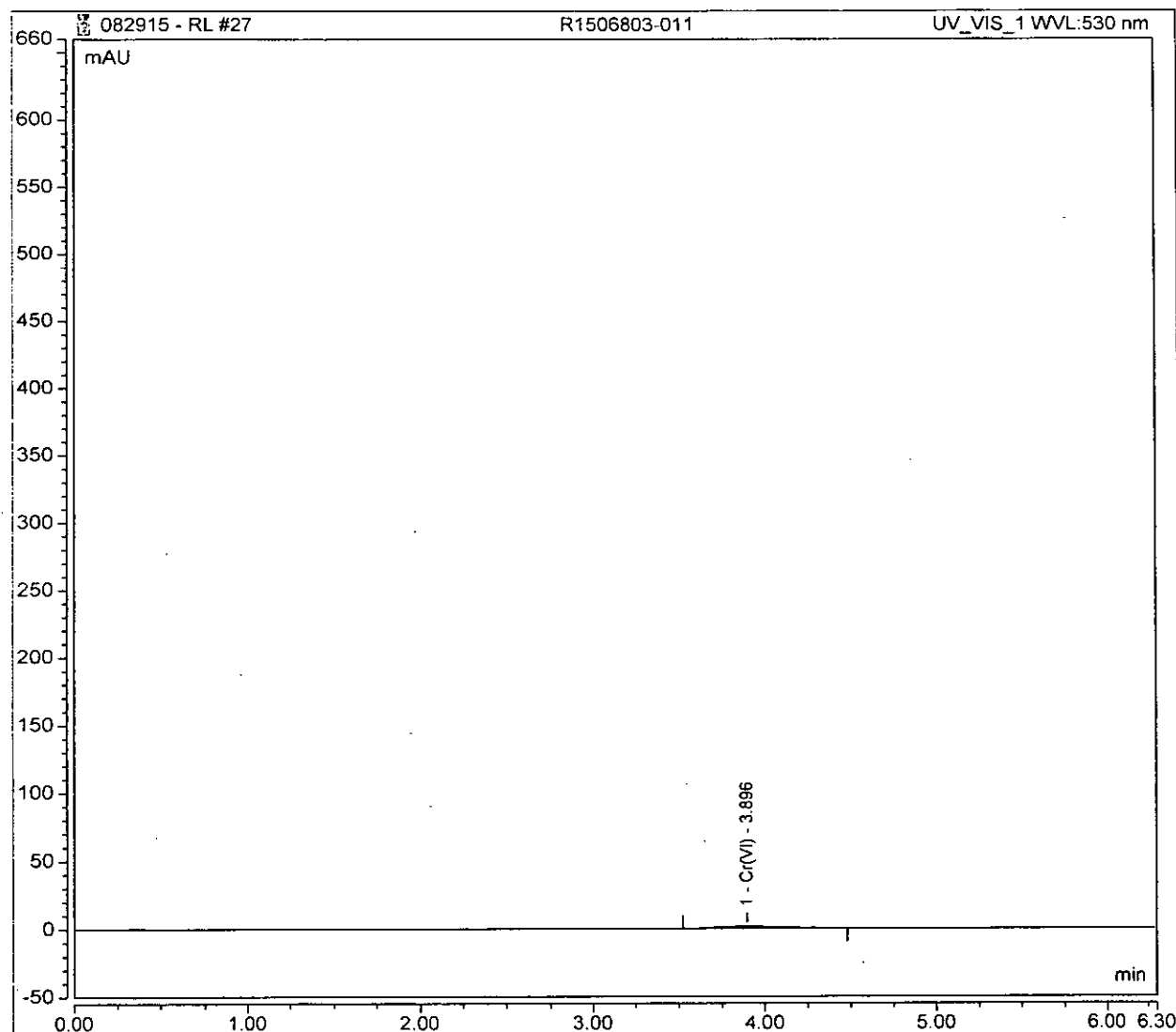
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	3.89	Cr(VI)	BMB	0.600	1.503	0.0040



### Peak Integration Report

Sample Name:	R1506803-011	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	27
Inj. Date / Time:	29-Aug-2015 / 13:54	Sample Comment:	7199

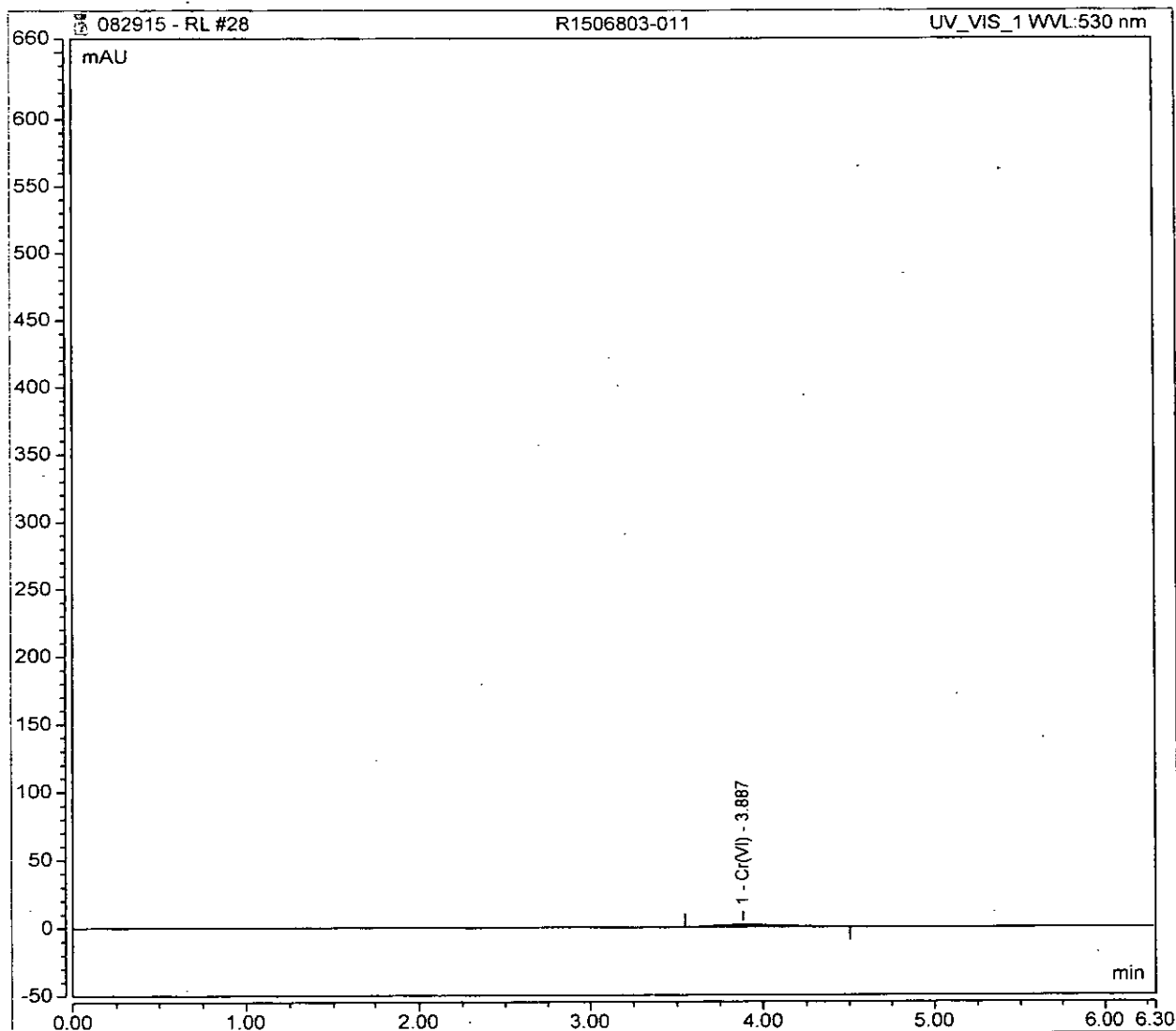
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	3.90	Cr(VI)	BMB	0.663	1.573	0.0044



### Peak Integration Report

Sample Name:	R1506803-011	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	28
Inj. Date / Time:	29-Aug-2015 / 14:03	Sample Comment:	7199 REPLICATE

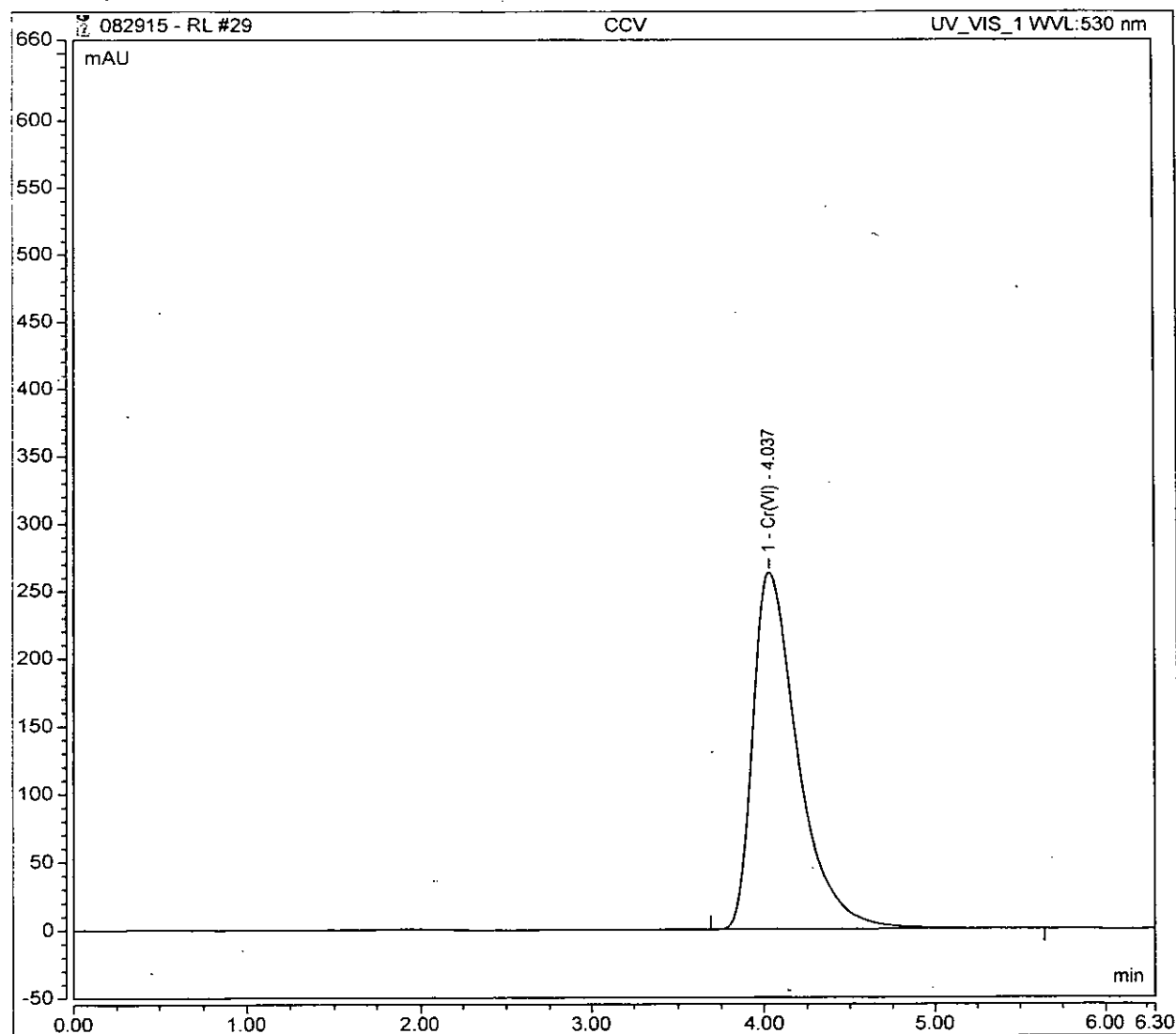
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	3.89	Cr(VI)	BMB	0.654	1.587	0.0043



### Peak Integration Report

Sample Name:	CCV	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	29
Inj. Date / Time:	29-Aug-2015 / 14:10	Sample Comment:	7199/218.6 RL

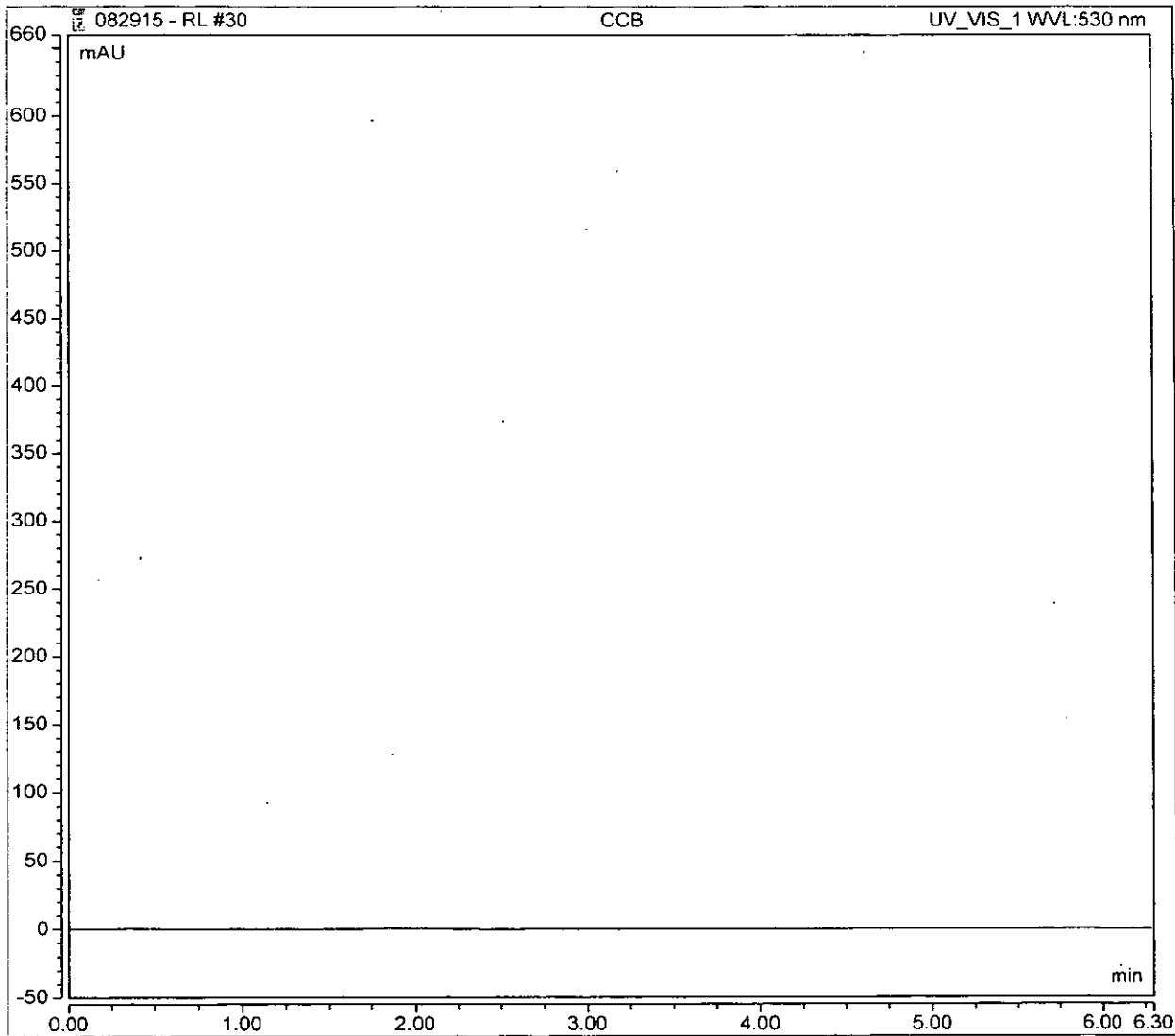
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	4.04	Cr(VI)	BMB	79.923	263.336	0.5188



### Peak Integration Report

Sample Name:	CCB	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	30
Inj. Date / Time:	29-Aug-2015 / 14:18	Sample Comment:	7199/218.6 RL

No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount n.a.
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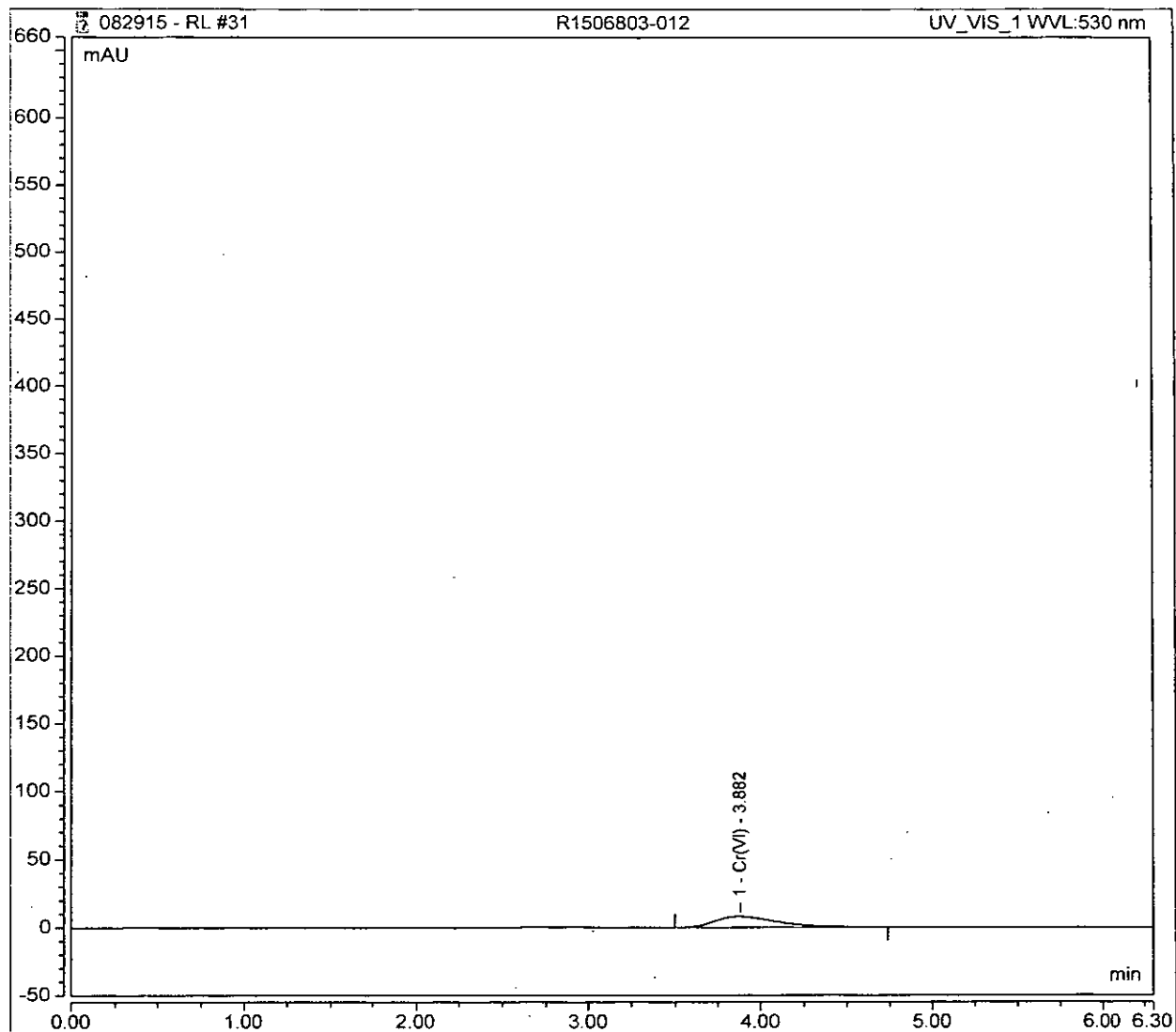




### Peak Integration Report

Sample Name:	R1506803-012	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	31
Inj. Date / Time:	29-Aug-2015 / 14:27	Sample Comment:	7199

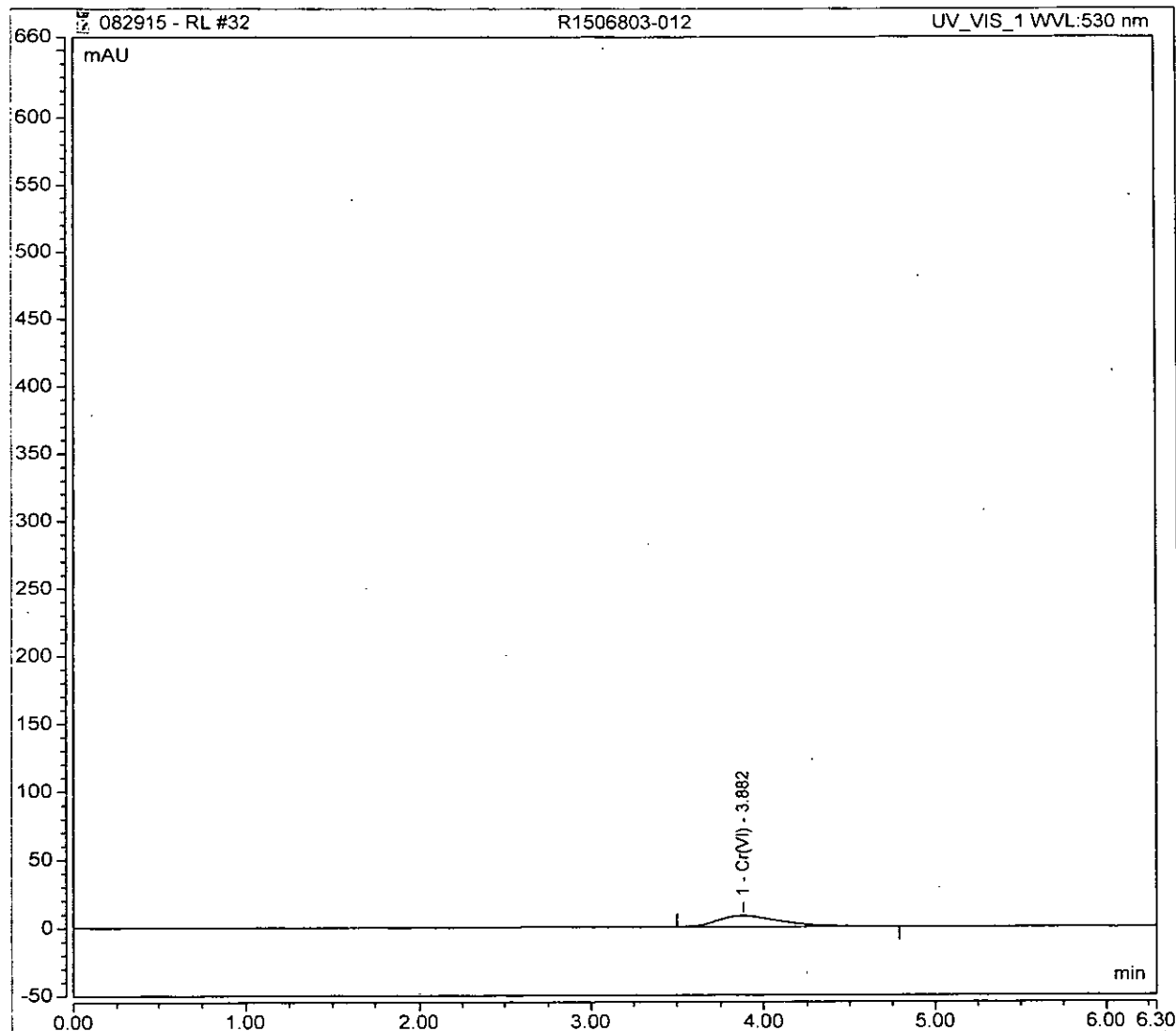
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	3.88	Cr(VI)	BMB	3.436	8.166	0.0224



### Peak Integration Report

Sample Name:	R1506803-012	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	32
Inj. Date / Time:	29-Aug-2015 / 14:35	Sample Comment:	7199 REPLICATE

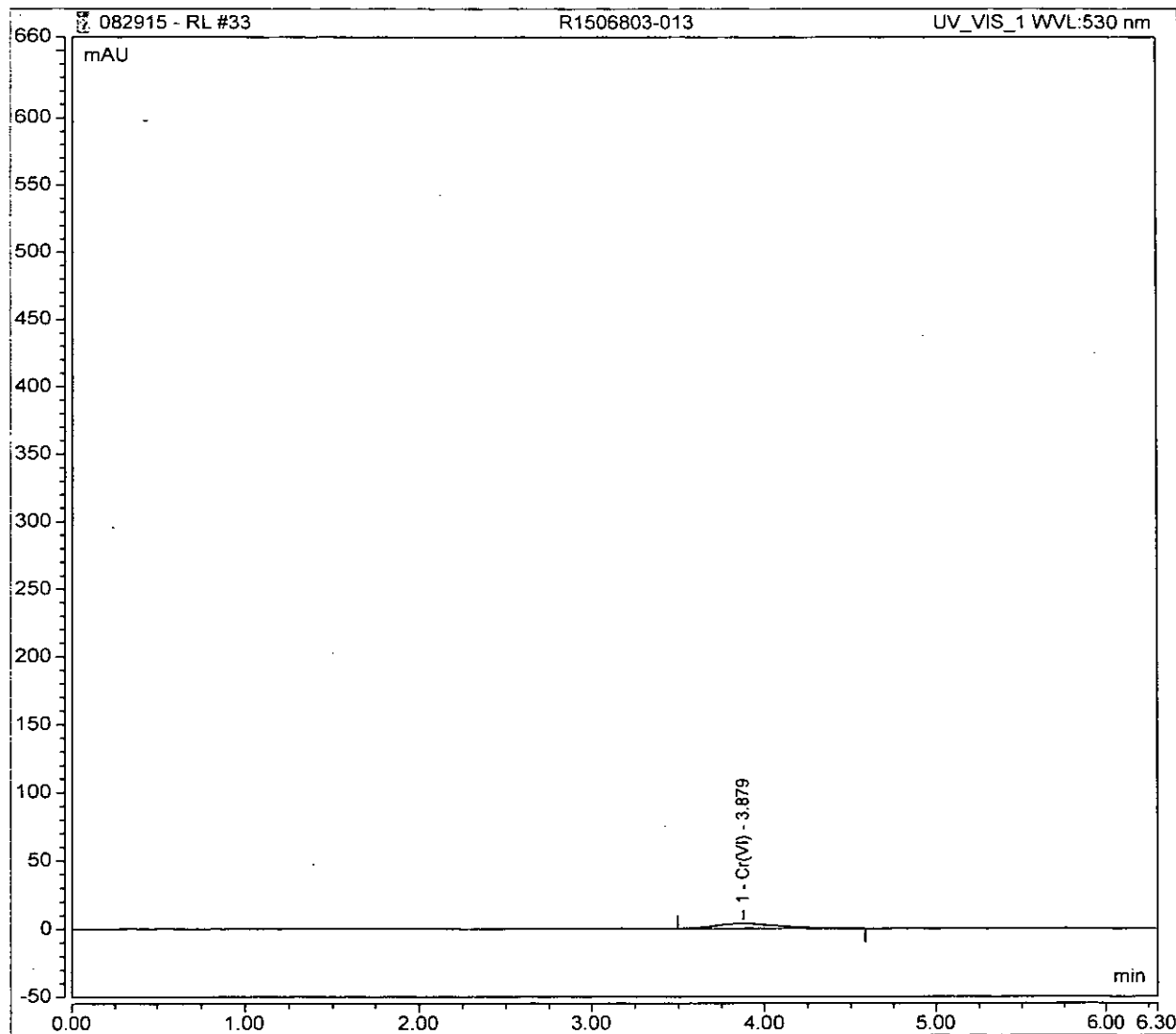
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	3.88	Cr(VI)	BMB	3.456	8.193	0.0225



### Peak Integration Report

Sample Name:	R1506803-013	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	33
Inj. Date / Time:	29-Aug-2015 / 14:42	Sample Comment:	7199

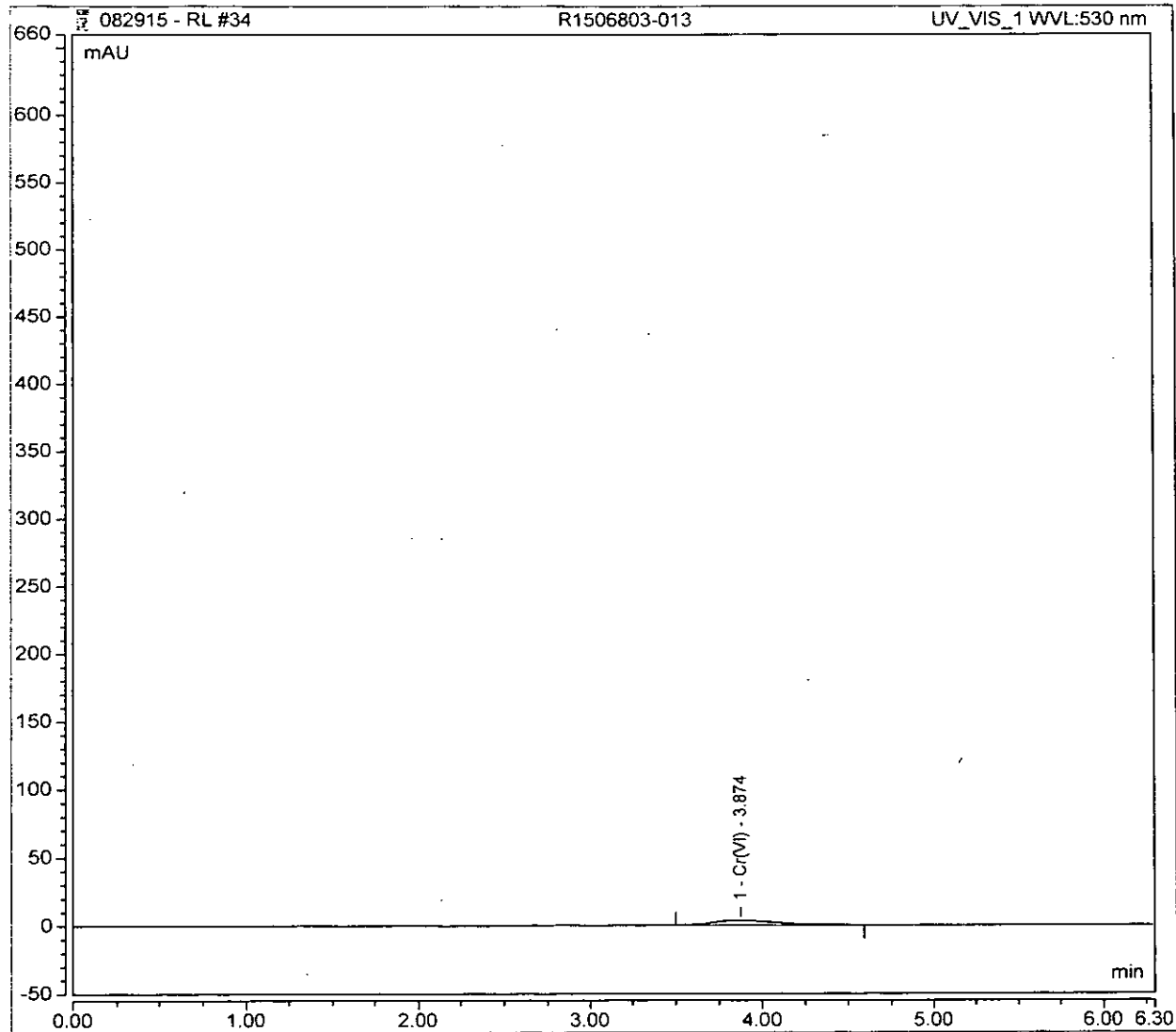
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	3.88	Cr(VI)	BMB	1.514	3.618	0.0099



### Peak Integration Report

Sample Name:	R1506803-013	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	34
Inj. Date / Time:	29-Aug-2015 / 14:51	Sample Comment:	7199 REPLICATE

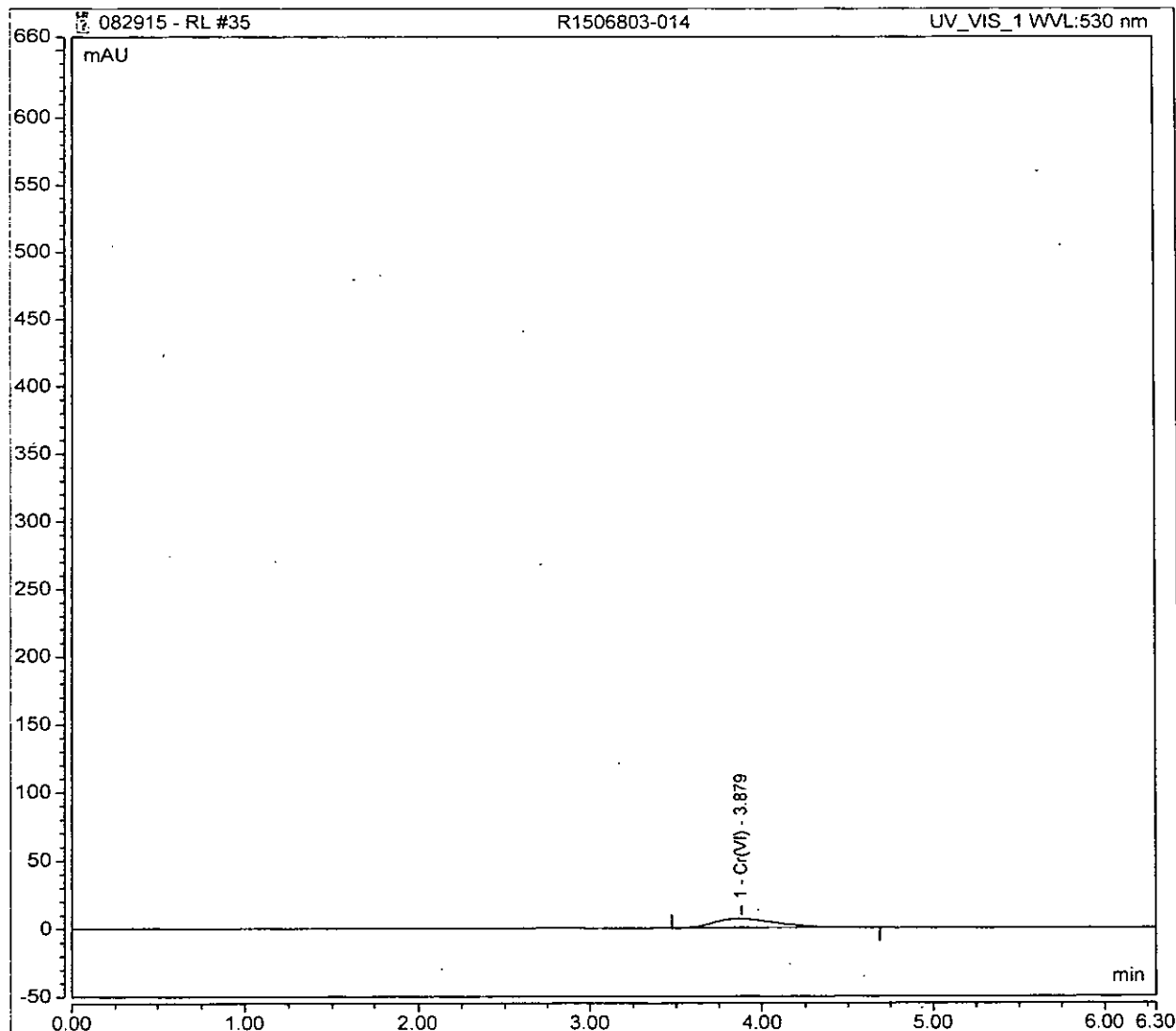
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	3.87	Cr(VI)	BMB	1.532	3.635	0.0100



### Peak Integration Report

Sample Name:	R1506803-014	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	35
Inj. Date / Time:	29-Aug-2015 / 14:58	Sample Comment:	7199

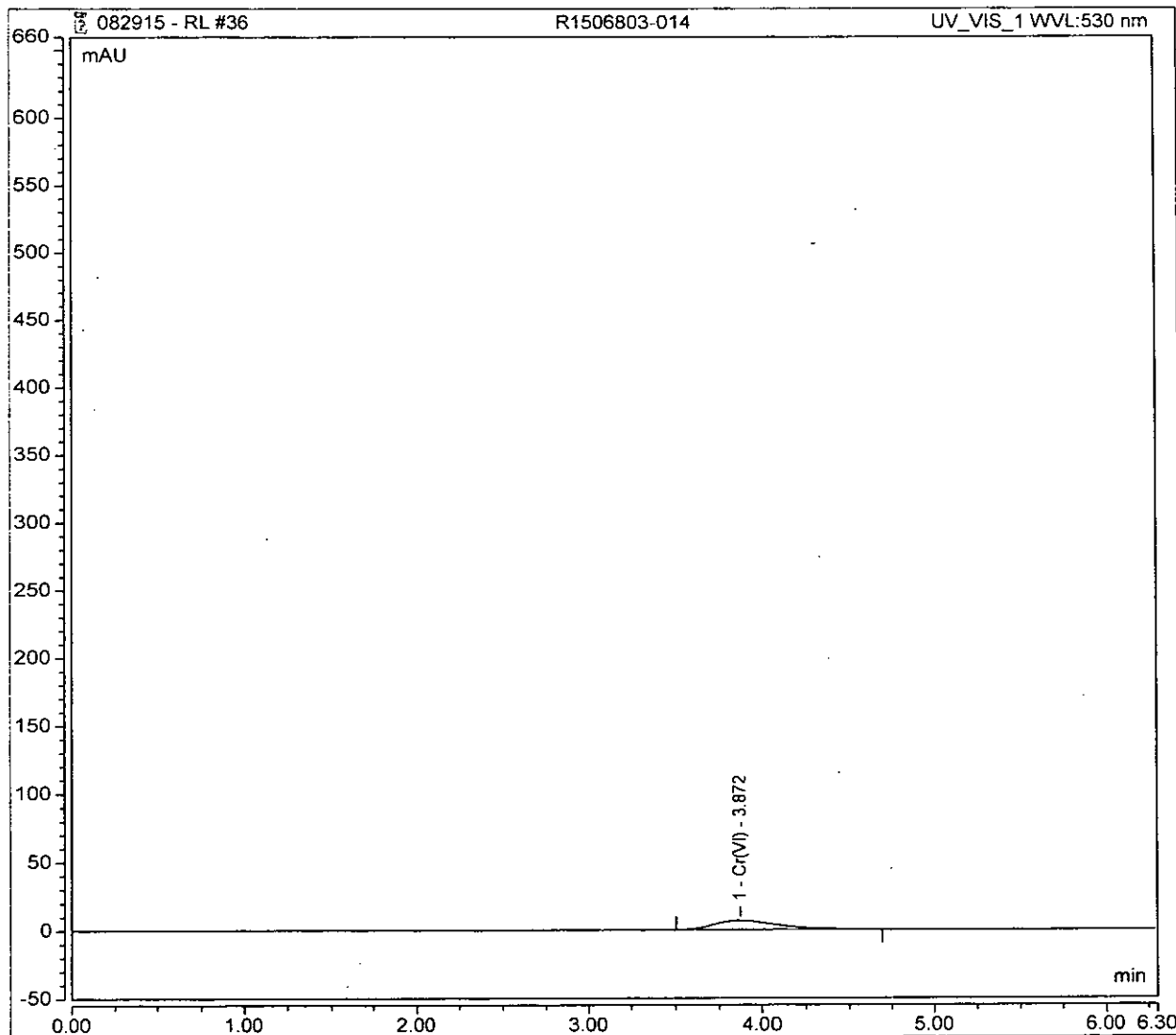
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	3.88	Cr(VI)	BMB	2.933	6.747	0.0191



### Peak Integration Report

Sample Name:	R1506803-014	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	36
Inj. Date / Time:	29-Aug-2015 / 15:06	Sample Comment:	7199 REPLICATE

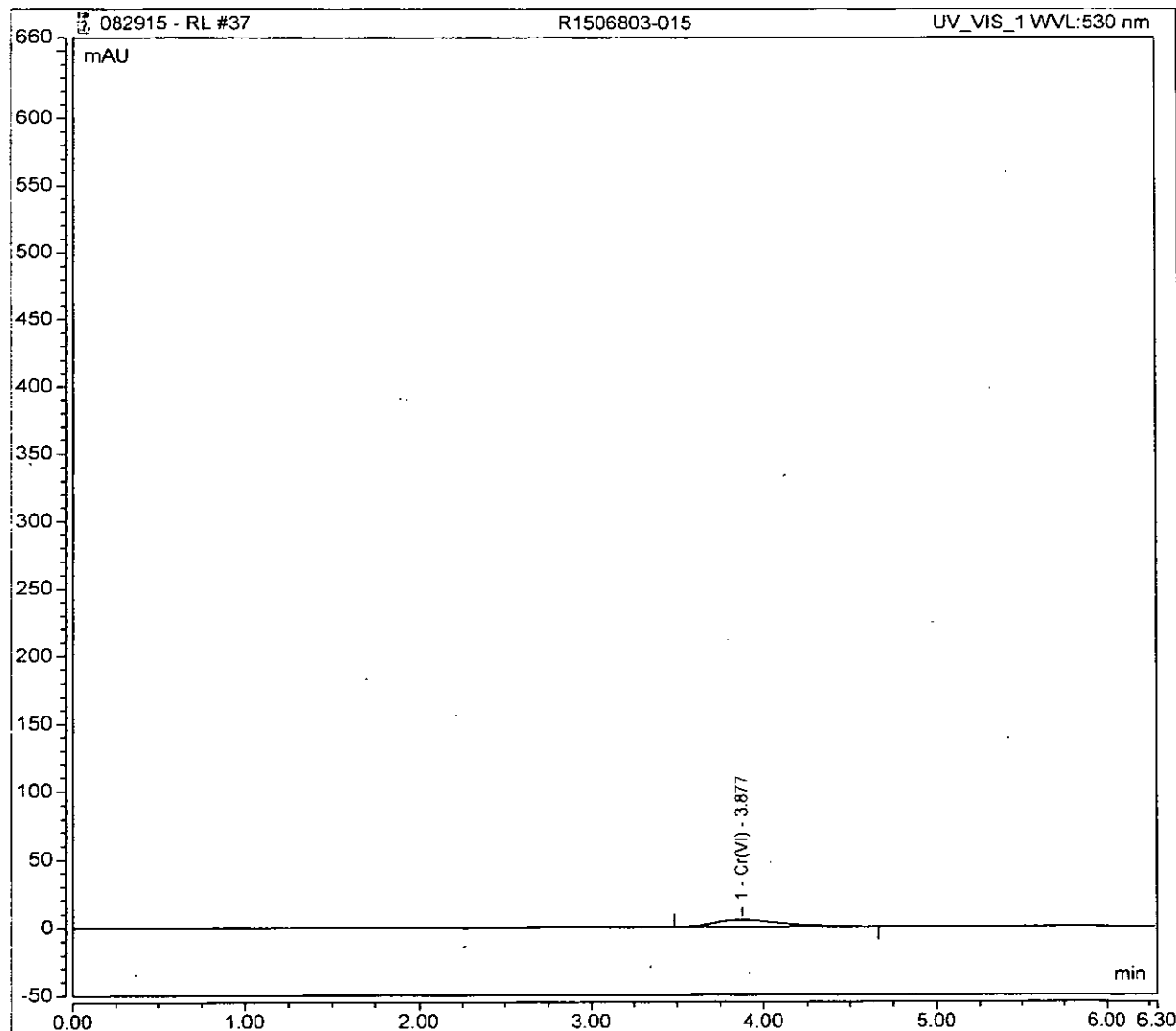
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	3.87	Cr(VI)	BMB	2.927	6.782	0.0191



### Peak Integration Report

Sample Name:	R1506803-015	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	37
Inj. Date / Time:	29-Aug-2015 / 15:13	Sample Comment:	7199

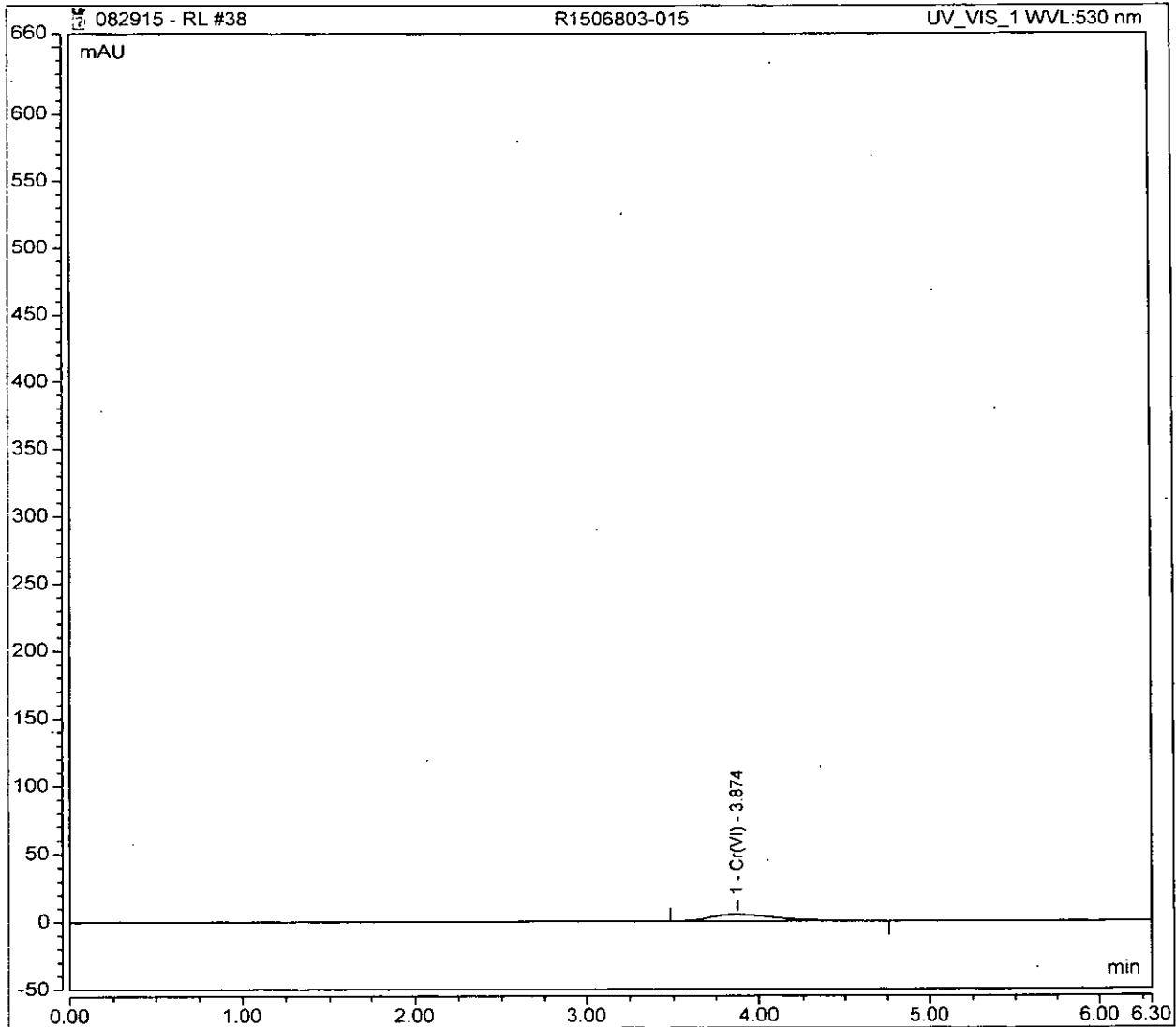
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	3.88	Cr(VI)	BMB	2.125	4.988	0.0139



### Peak Integration Report

Sample Name:	R1506803-015	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	38
Inj. Date / Time:	29-Aug-2015 / 15:22	Sample Comment:	7199 REPLICATE

No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	3.87	Cr(VI)	BMB	2.143	5.024	0.0140

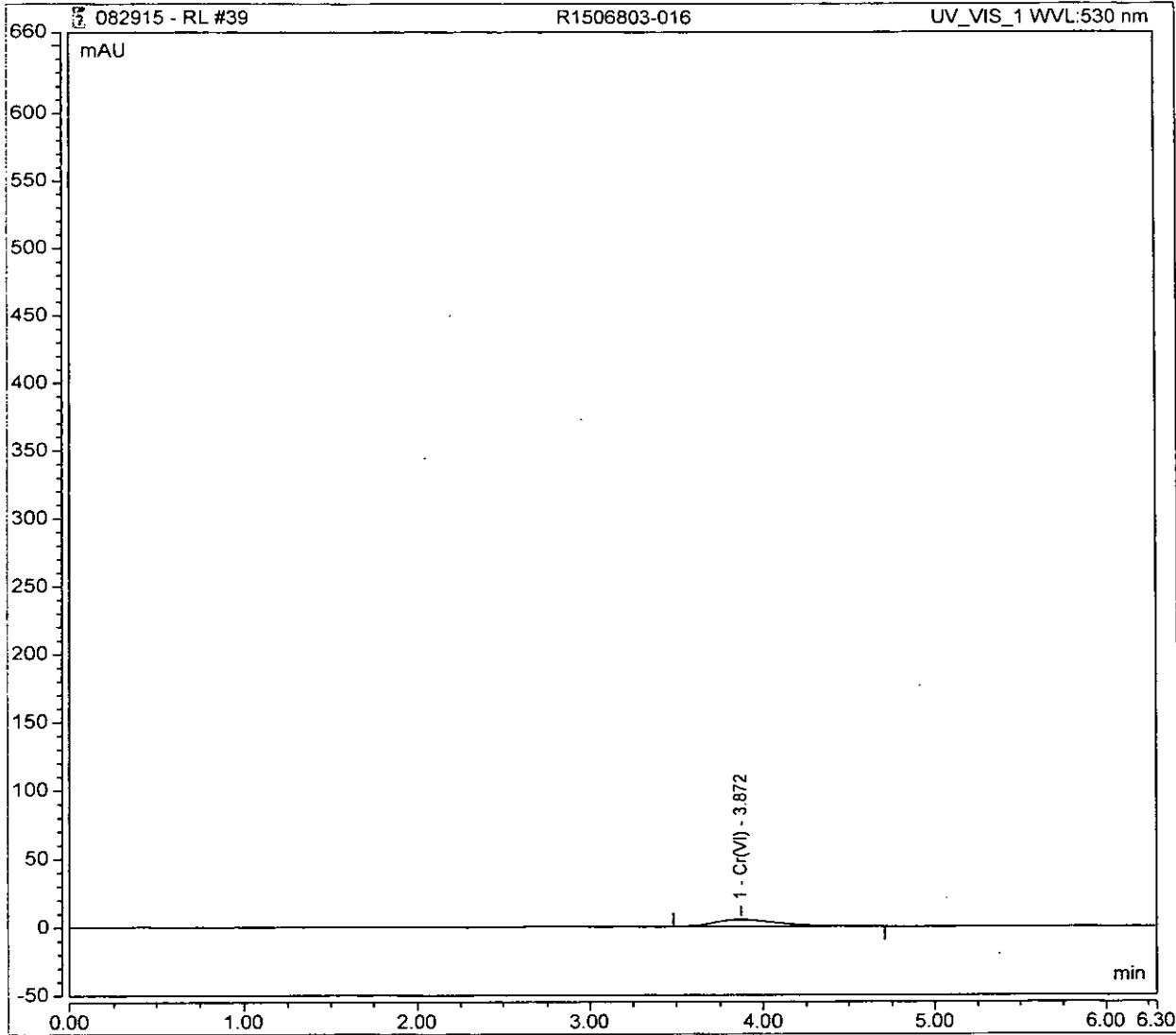




### Peak Integration Report

Sample Name:	R1506803-016	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	39
Inj. Date / Time:	29-Aug-2015 / 15:29	Sample Comment:	7199

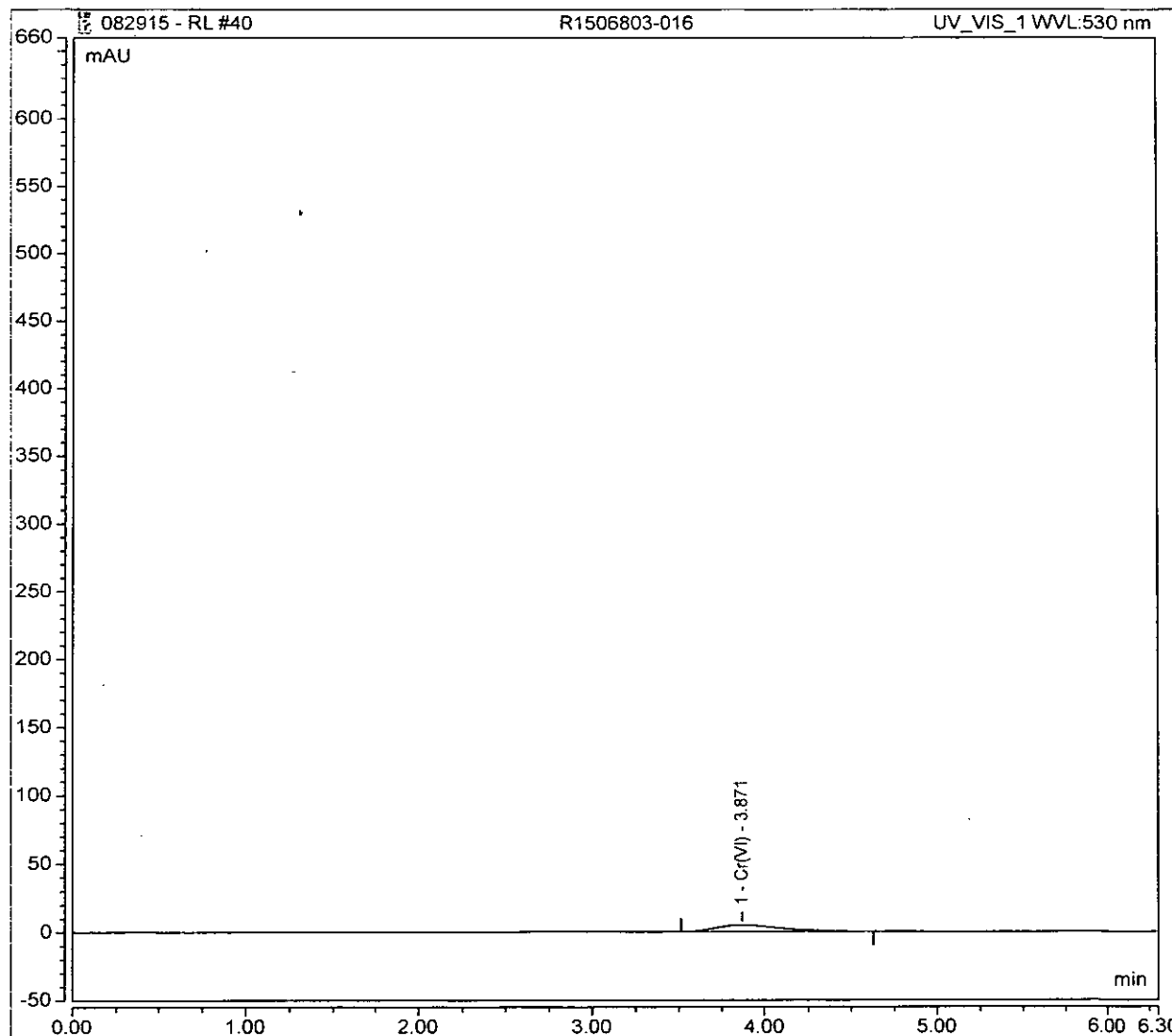
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	3.87	Cr(VI)	BMB	2.156	5.083	0.0141



### Peak Integration Report

Sample Name:	R1506803-016	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	40
Inj. Date / Time:	29-Aug-2015 / 15:37	Sample Comment:	7199 REPLICATE

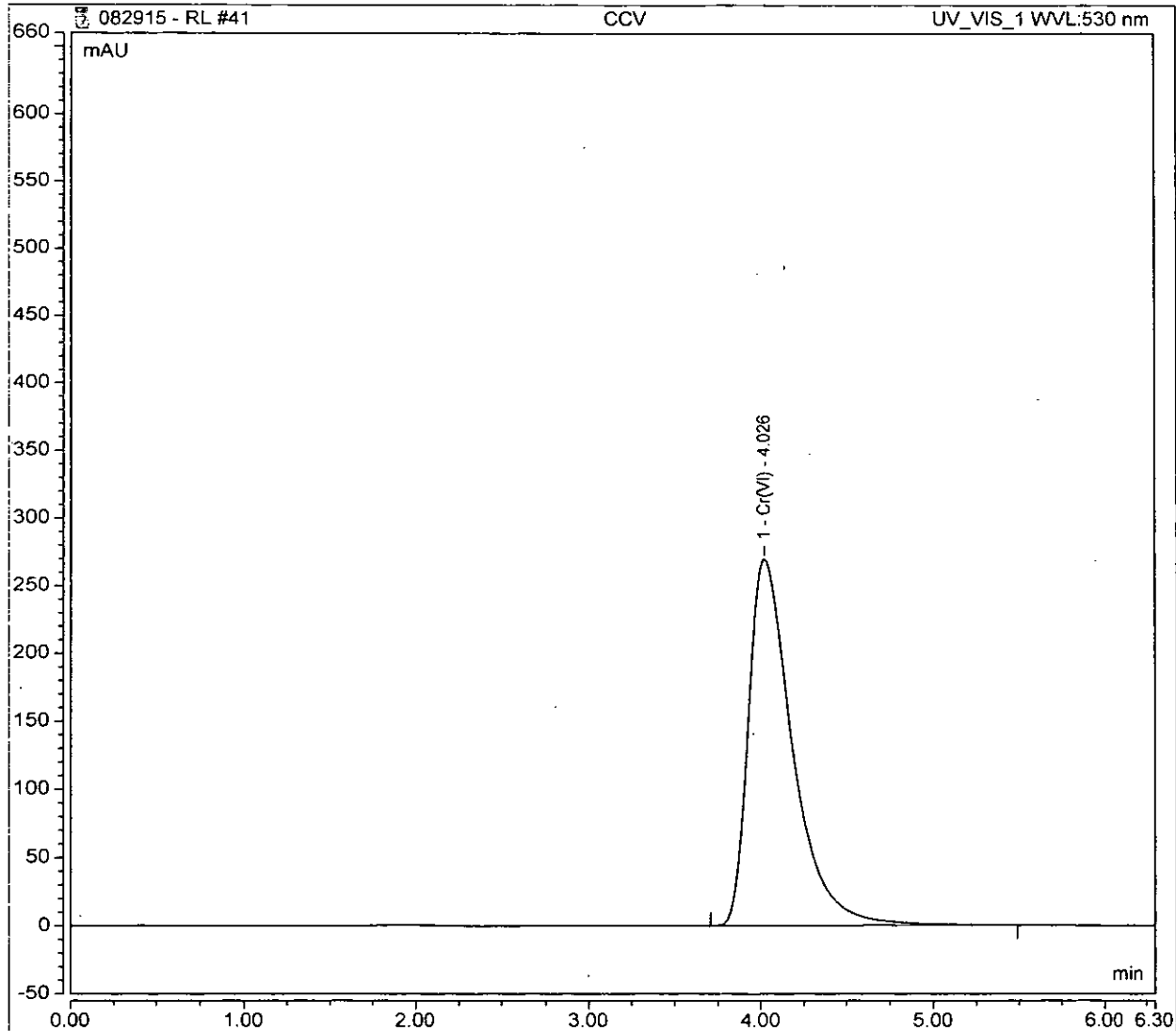
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	3.87	Cr(VI)	BMB	2.101	5.047	0.0137



### Peak Integration Report

Sample Name:	CCV	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	41
Inj. Date / Time:	29-Aug-2015 / 15:45	Sample Comment:	7199/218.6 RL

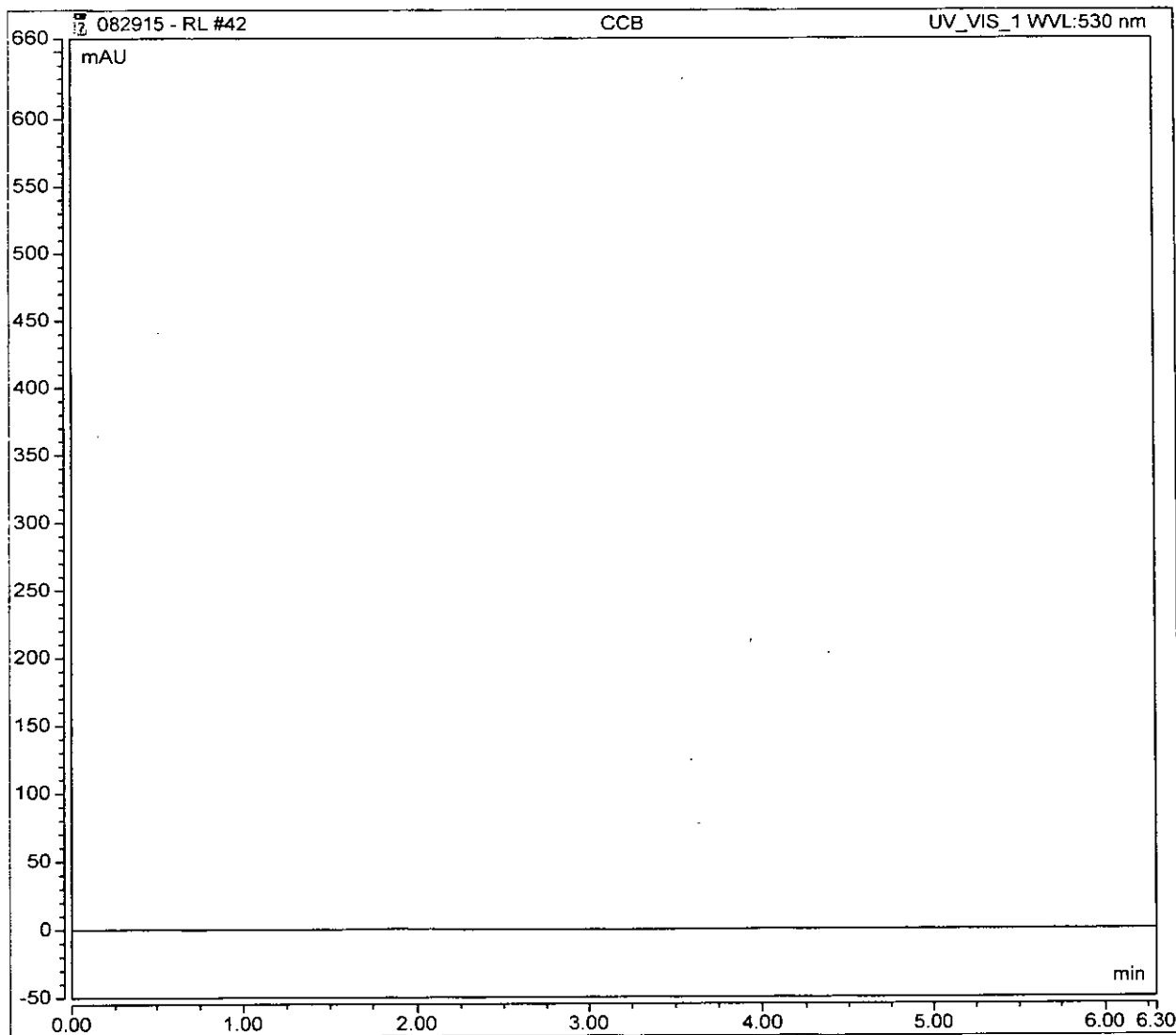
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	4.03	Cr(VI)	BMB	80.404	269.913	0.5219



### Peak Integration Report

Sample Name:	CCB	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	42
Inj. Date / Time:	29-Aug-2015 / 15:54	Sample Comment:	7199/218.6 RL

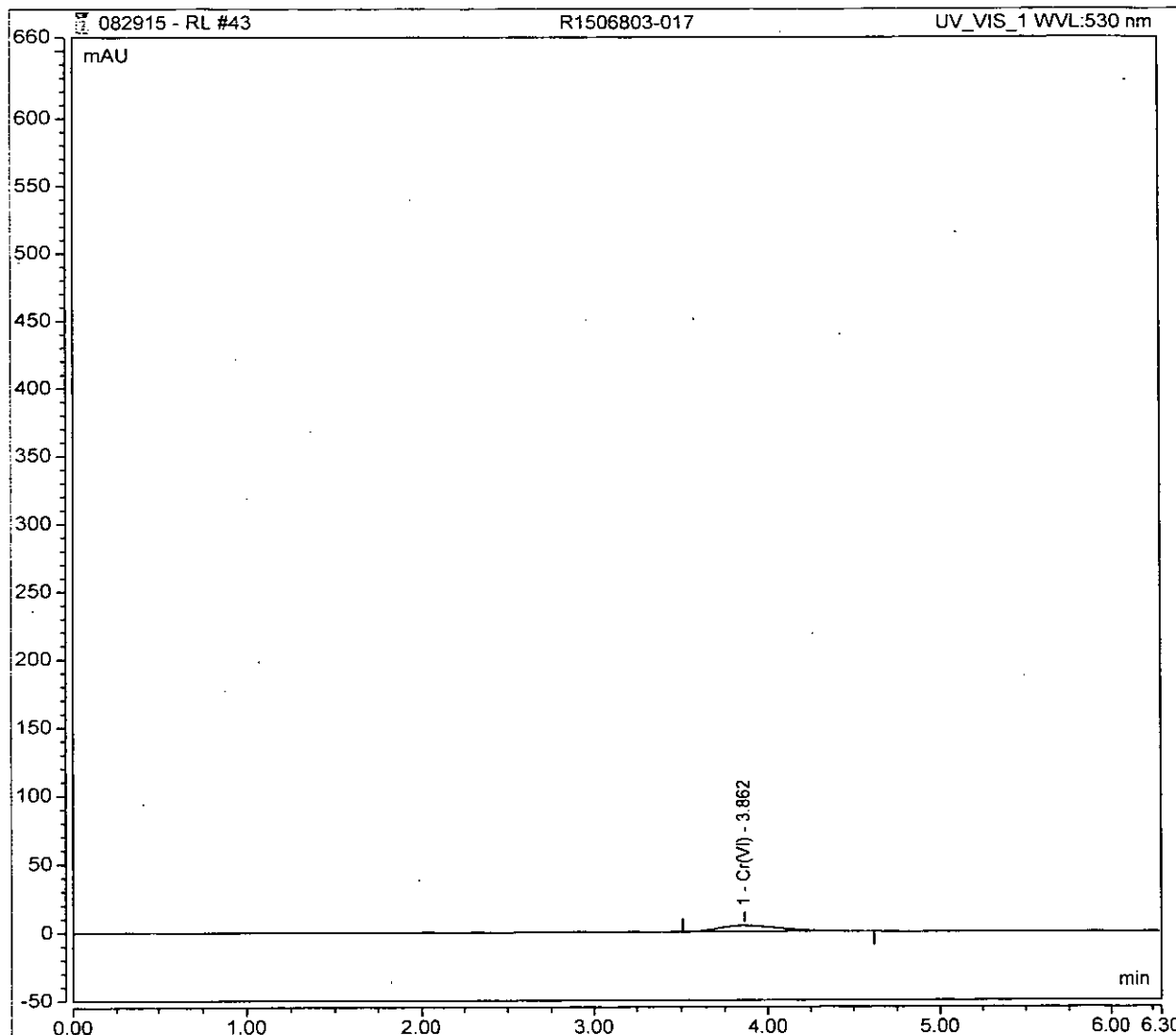
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount n.a.
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### Peak Integration Report

Sample Name:	R1506803-017	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	43
Inj. Date / Time:	29-Aug-2015 / 16:03	Sample Comment:	7199

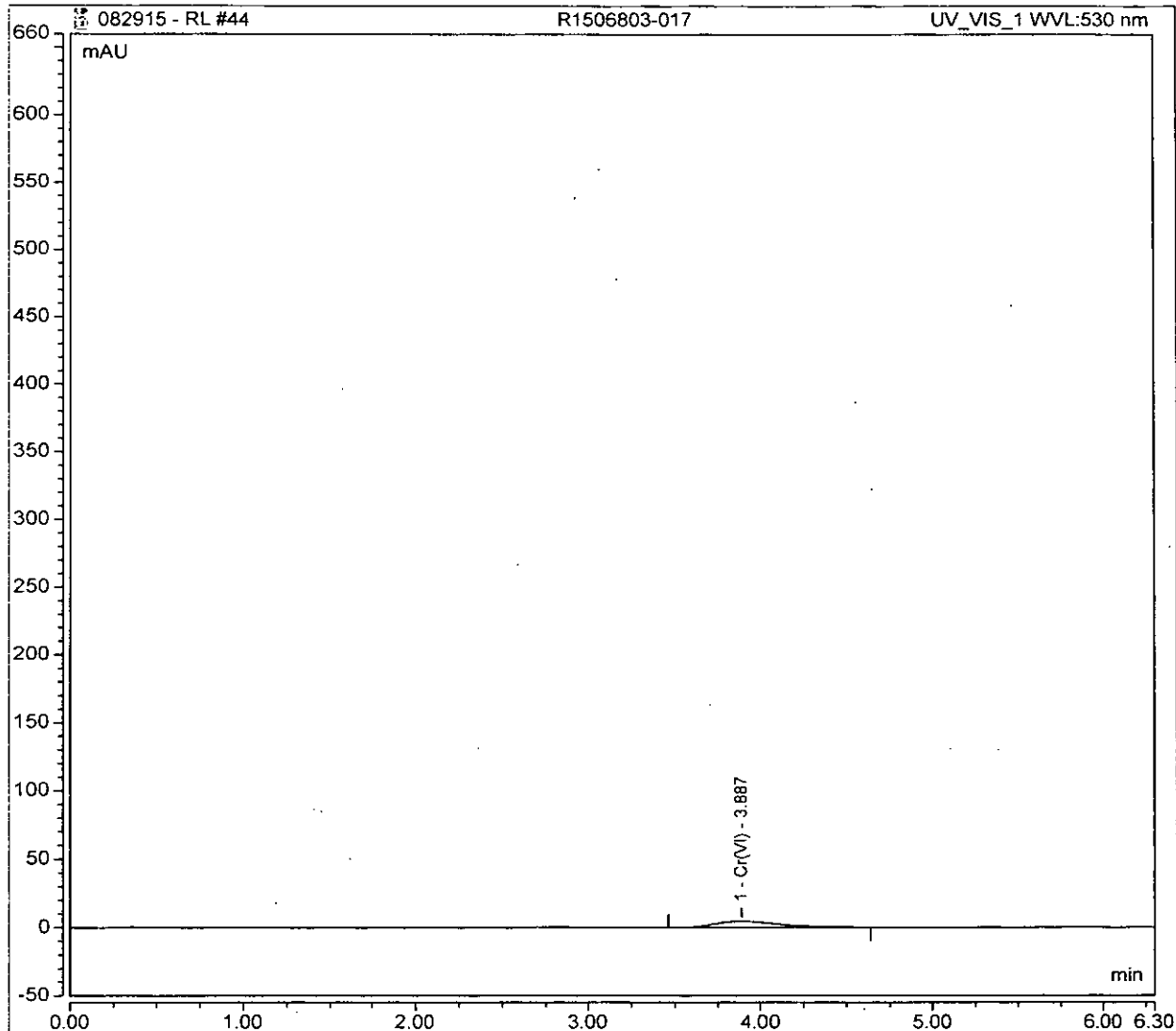
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	3.86	Cr(VI)	BMB	1.890	4.573	0.0124



### Peak Integration Report

Sample Name:	R1506803-017	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	44
Inj. Date / Time:	29-Aug-2015 / 16:11	Sample Comment:	7199 REPLICATE

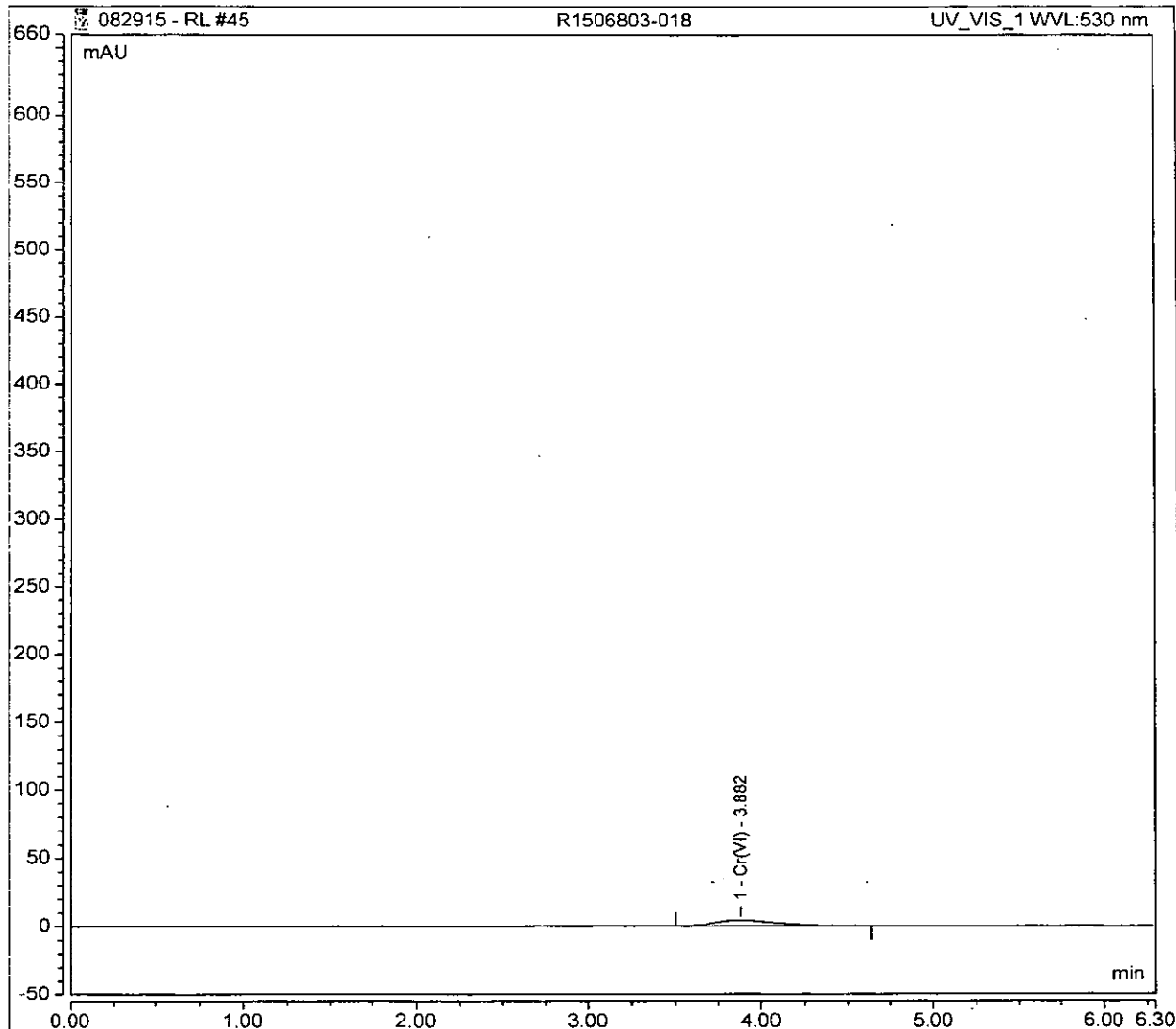
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	3.89	Cr(VI)	BMB	1.908	4.601	0.0125



### Peak Integration Report

Sample Name:	R1506803-018	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	45
Inj. Date / Time:	29-Aug-2015 / 16:18	Sample Comment:	7199

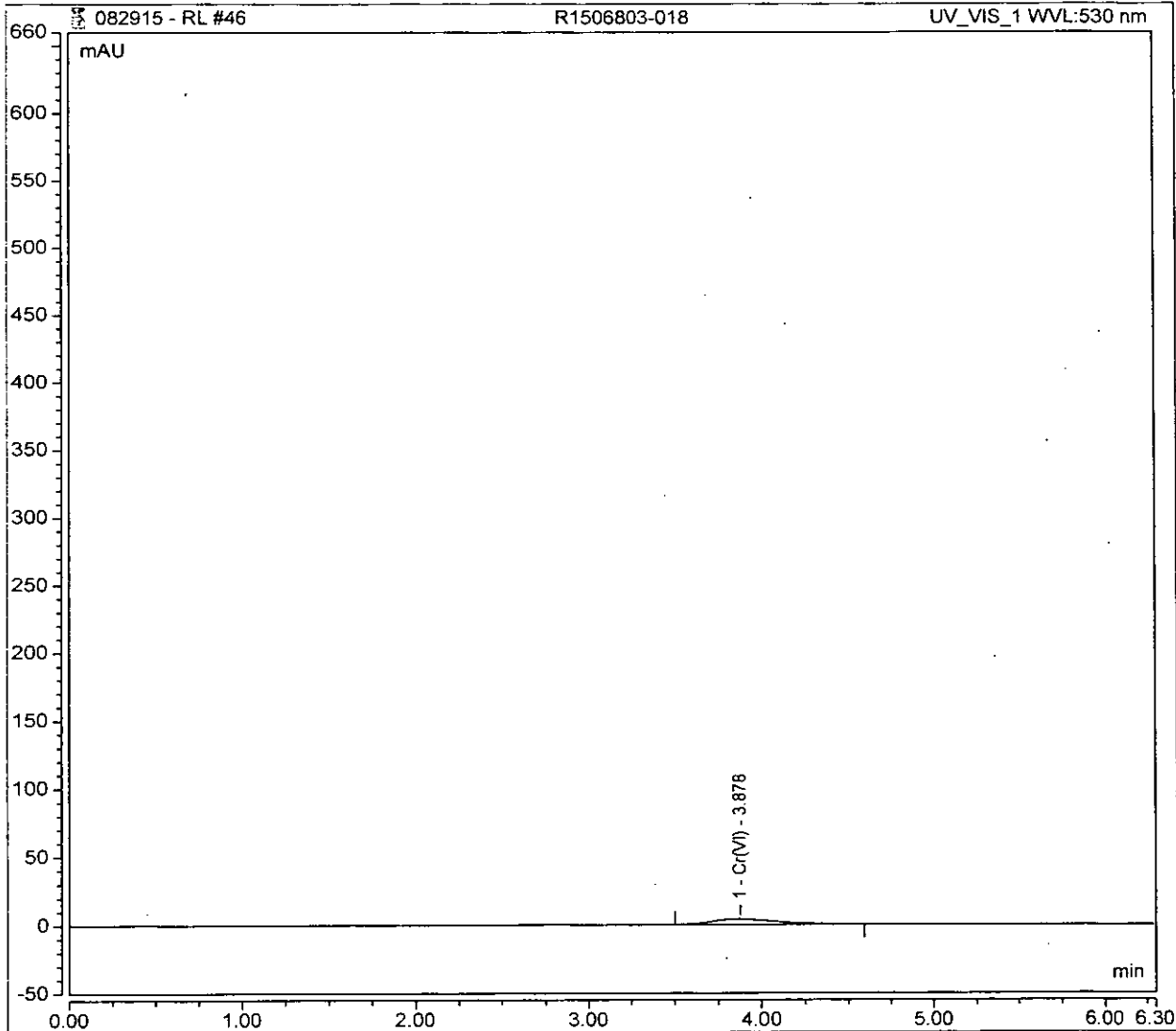
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	3.88	Cr(VI)	BMB	1.756	4.186	0.0115



### Peak Integration Report

Sample Name:	R1506803-018	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	46
Inj. Date / Time:	29-Aug-2015 / 16:27	Sample Comment:	7199 REPLICATE

No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	3.88	Cr(VI)	BMB	1.740	4.141	0.0114

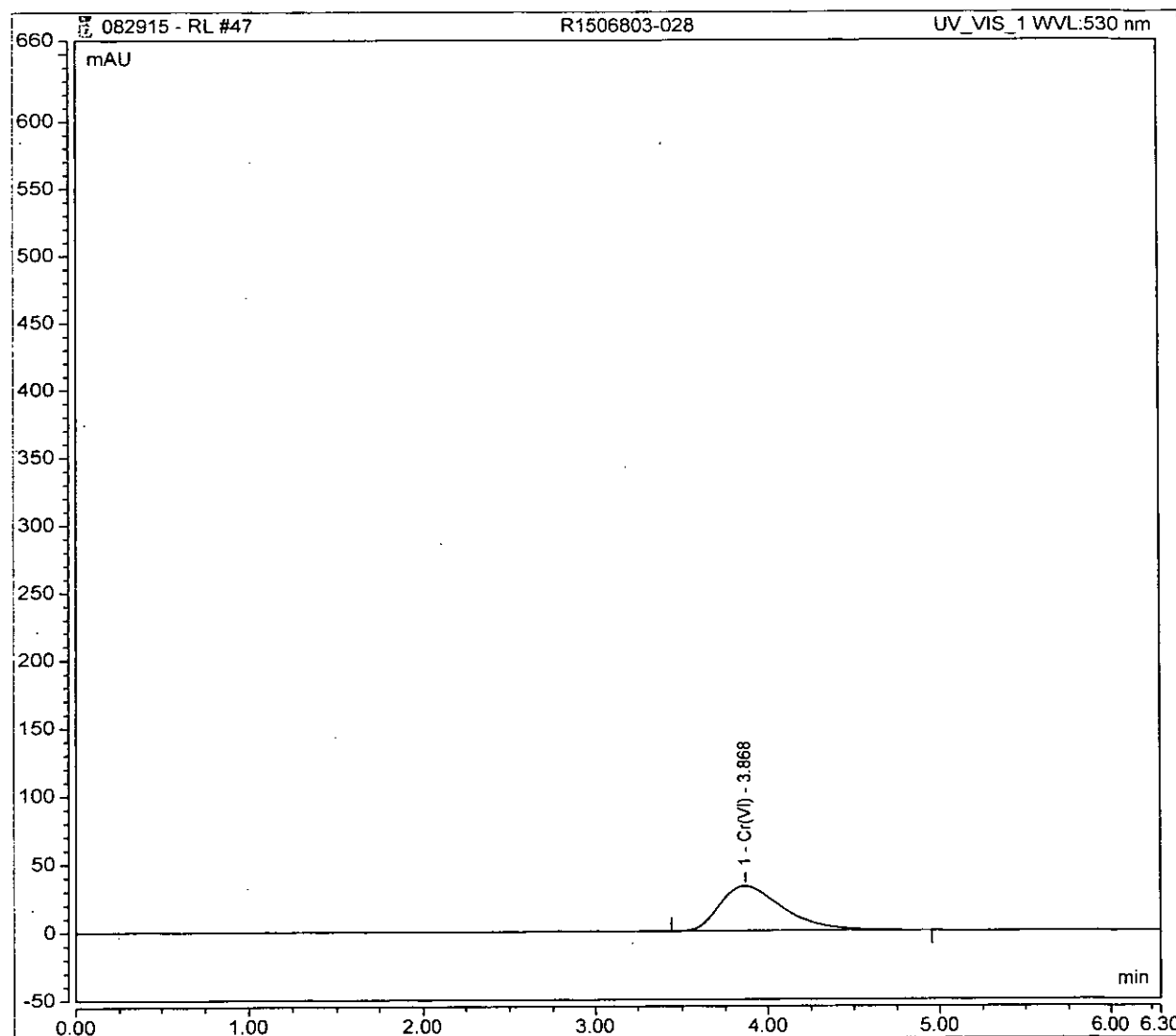




### Peak Integration Report

Sample Name:	R1506803-028	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	47
Inj. Date / Time:	29-Aug-2015 / 16:34	Sample Comment:	7199

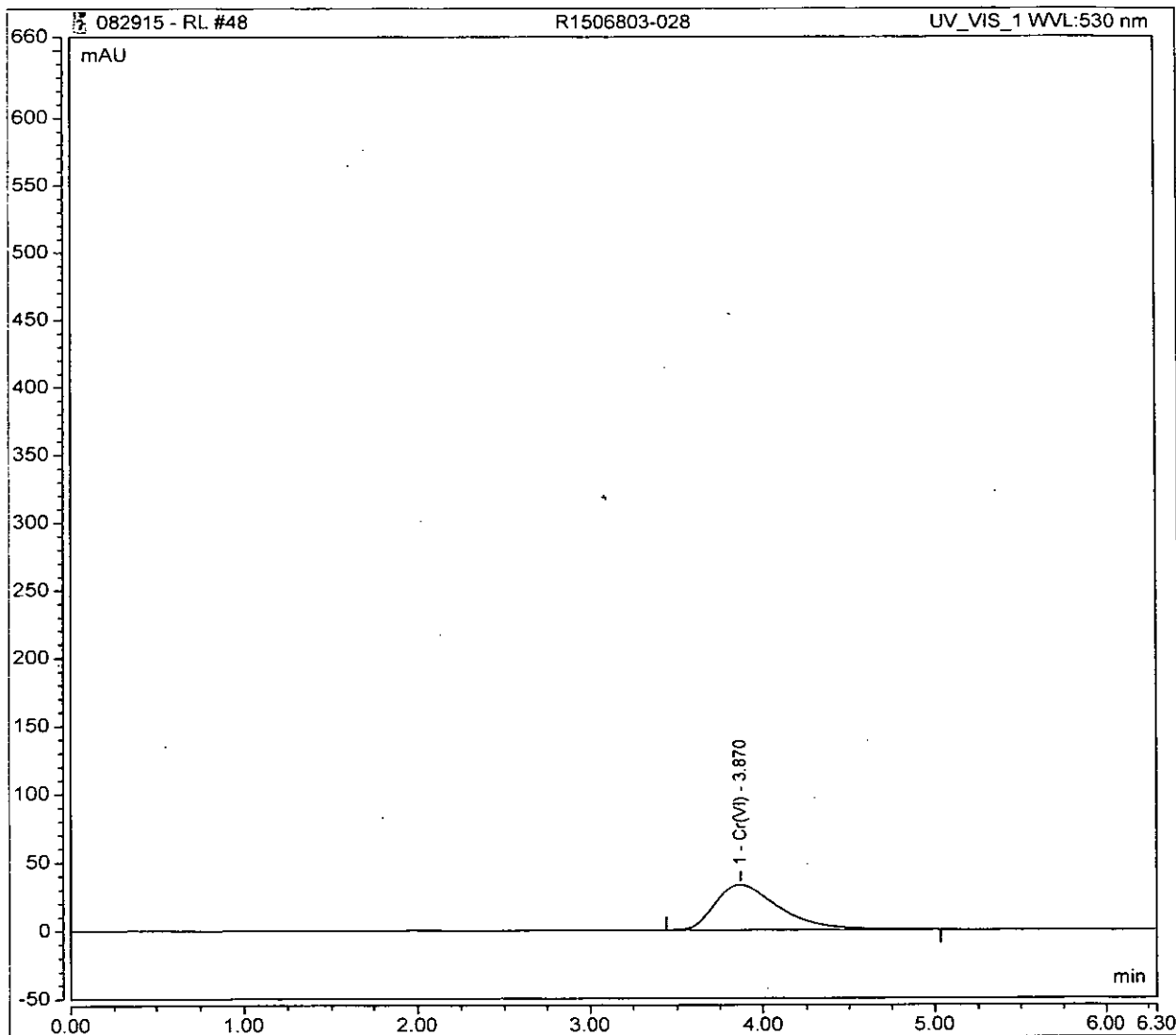
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	3.87	Cr(VI)	BMB	14.299	33.022	0.0929



### Peak Integration Report

Sample Name:	R1506803-028	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	48
Inj. Date / Time:	29-Aug-2015 / 16:43	Sample Comment:	7199 REPLICATE

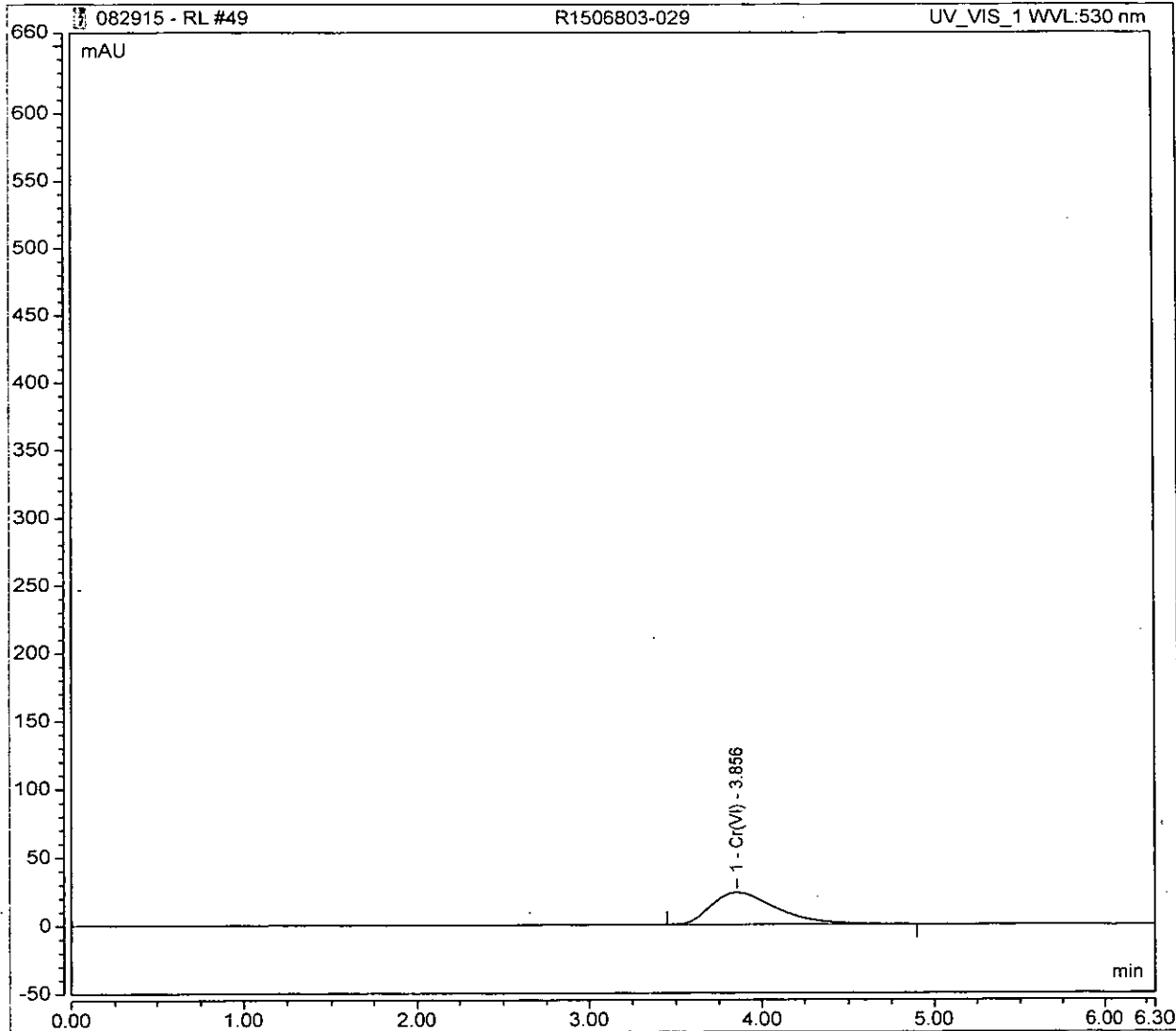
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	3.87	Cr(VI)	BMB	14.366	33.052	0.0933



### Peak Integration Report

Sample Name:	R1506803-029	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	49
Inj. Date / Time:	29-Aug-2015 / 16:50	Sample Comment:	7199

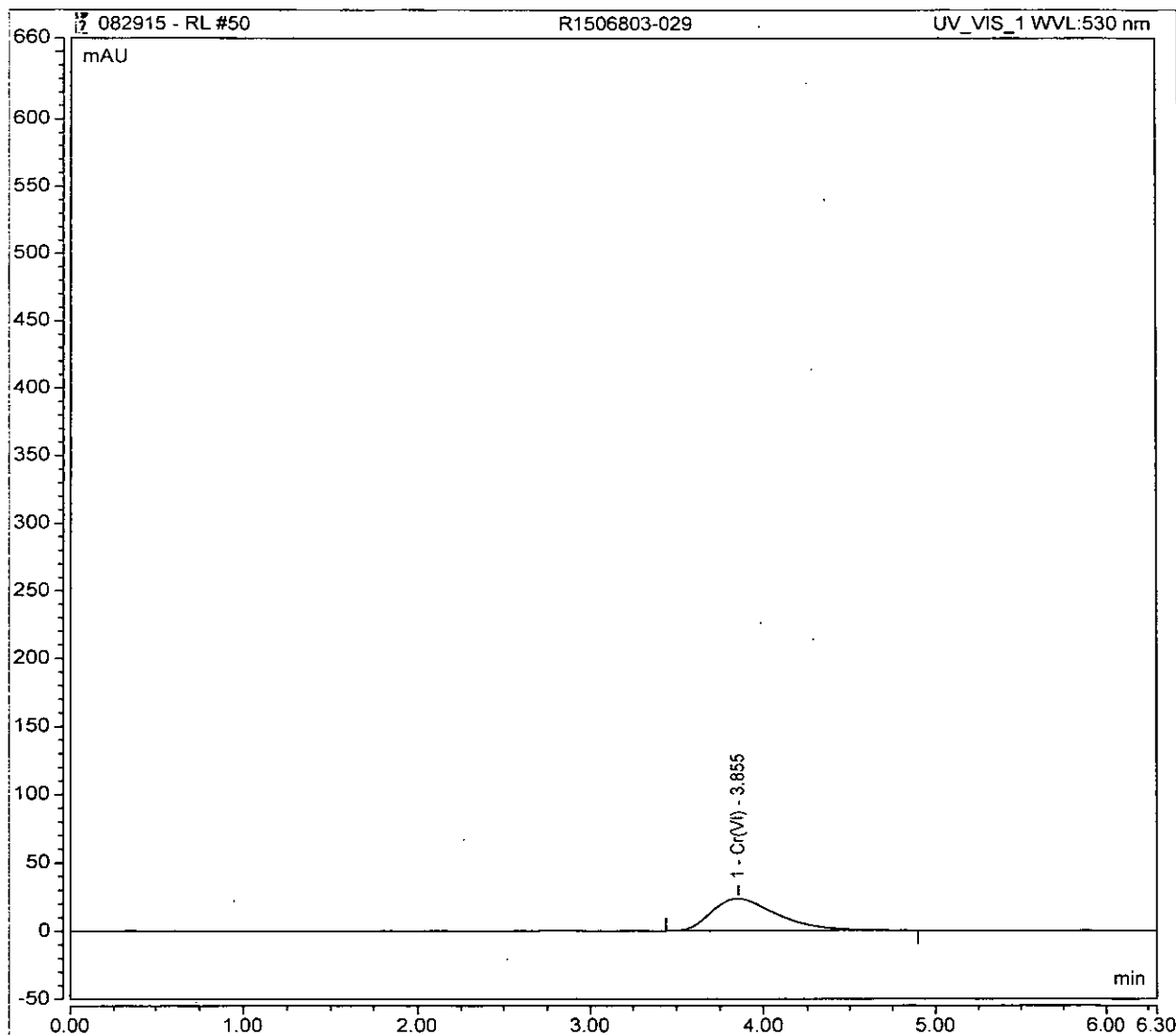
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	3.86	Cr(VI)	BMB	10.365	23.480	0.0674



### Peak Integration Report

Sample Name:	R1506803-029	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	50
Inj. Date / Time:	29-Aug-2015 / 16:58	Sample Comment:	7199 REPLICATE

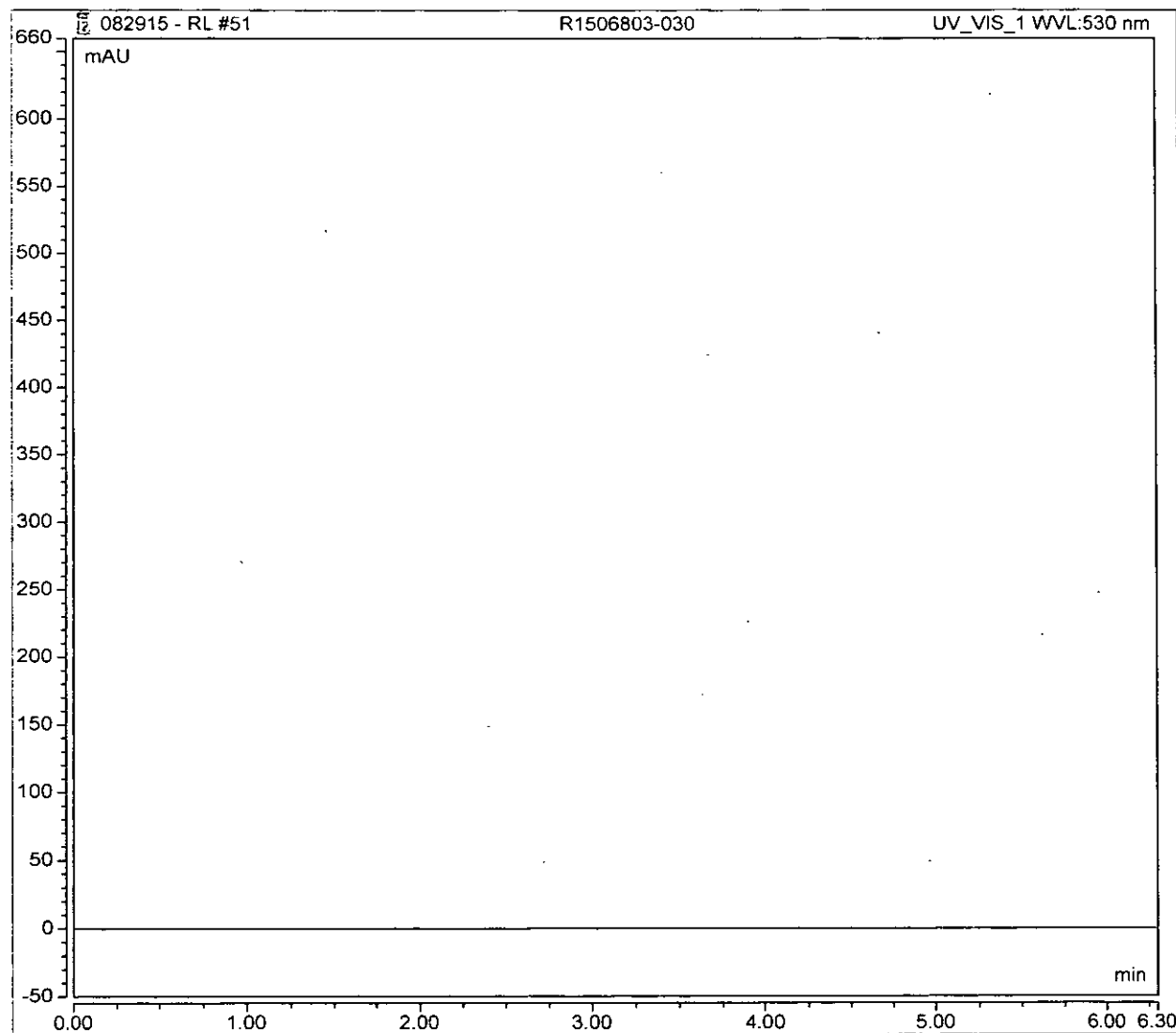
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	3.85	Cr(VI)	BMB	10.460	23.598	0.0680



### Peak Integration Report

Sample Name:	R1506803-030	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	51
Inj. Date / Time:	29-Aug-2015 / 17:05	Sample Comment:	7199

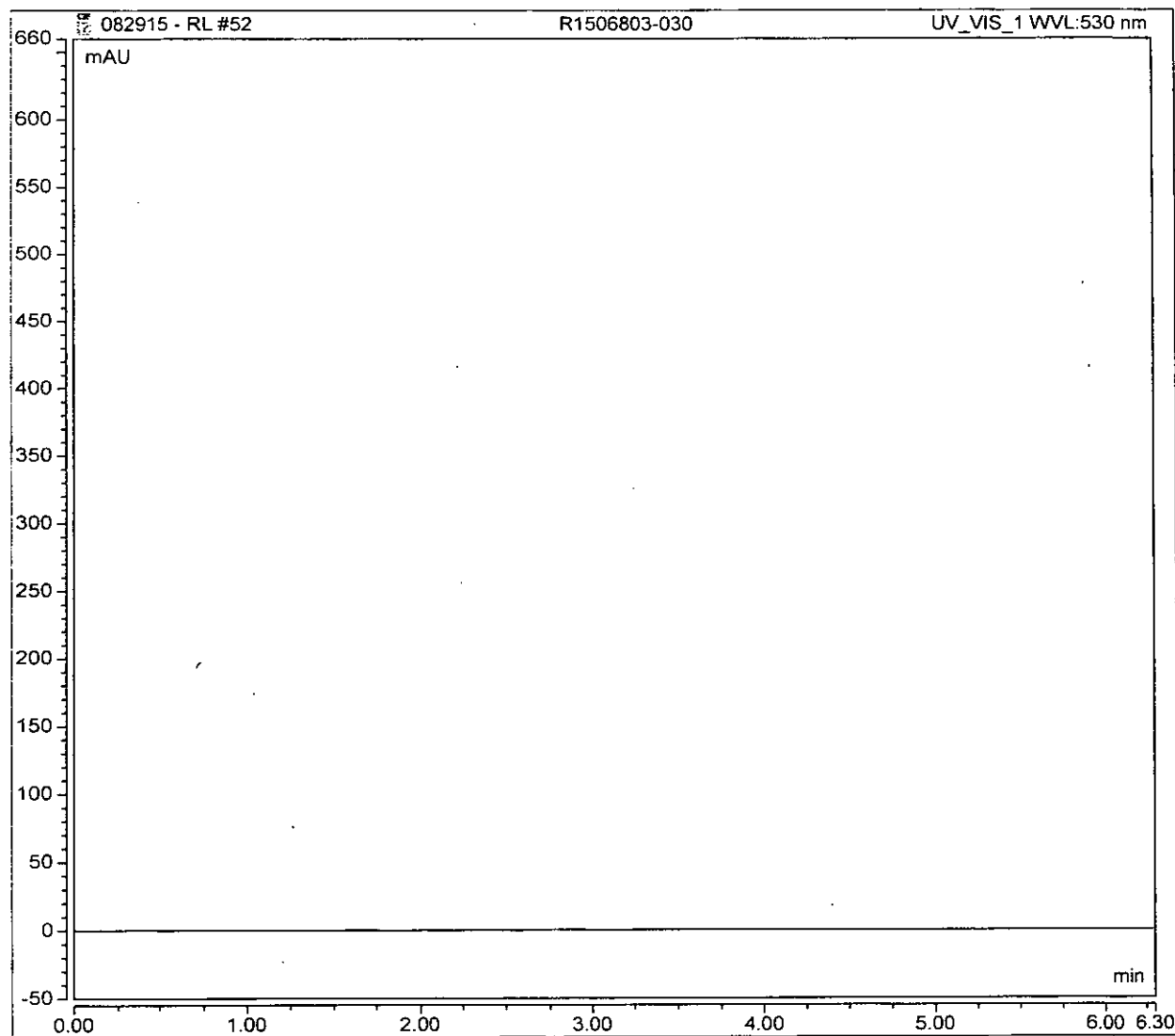
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount n.a.
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### Peak Integration Report

Sample Name:	R1506803-030	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	52
Inj. Date / Time:	29-Aug-2015 / 17:14	Sample Comment:	7199 REPLICATE

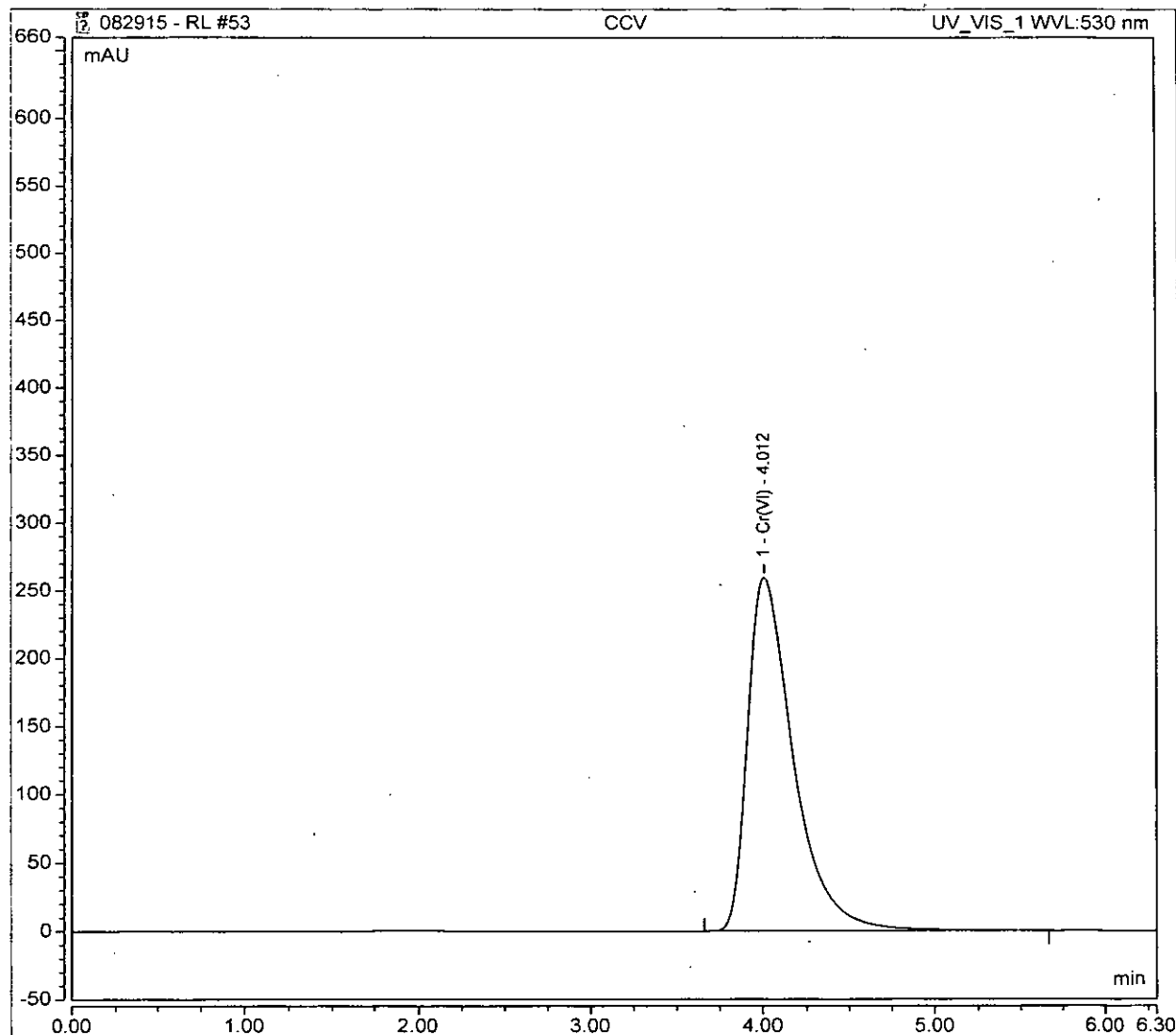
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount n.a.
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### Peak Integration Report

Sample Name:	CCV	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	53
Inj. Date / Time:	29-Aug-2015 / 17:21	Sample Comment:	7199/218.6 RL

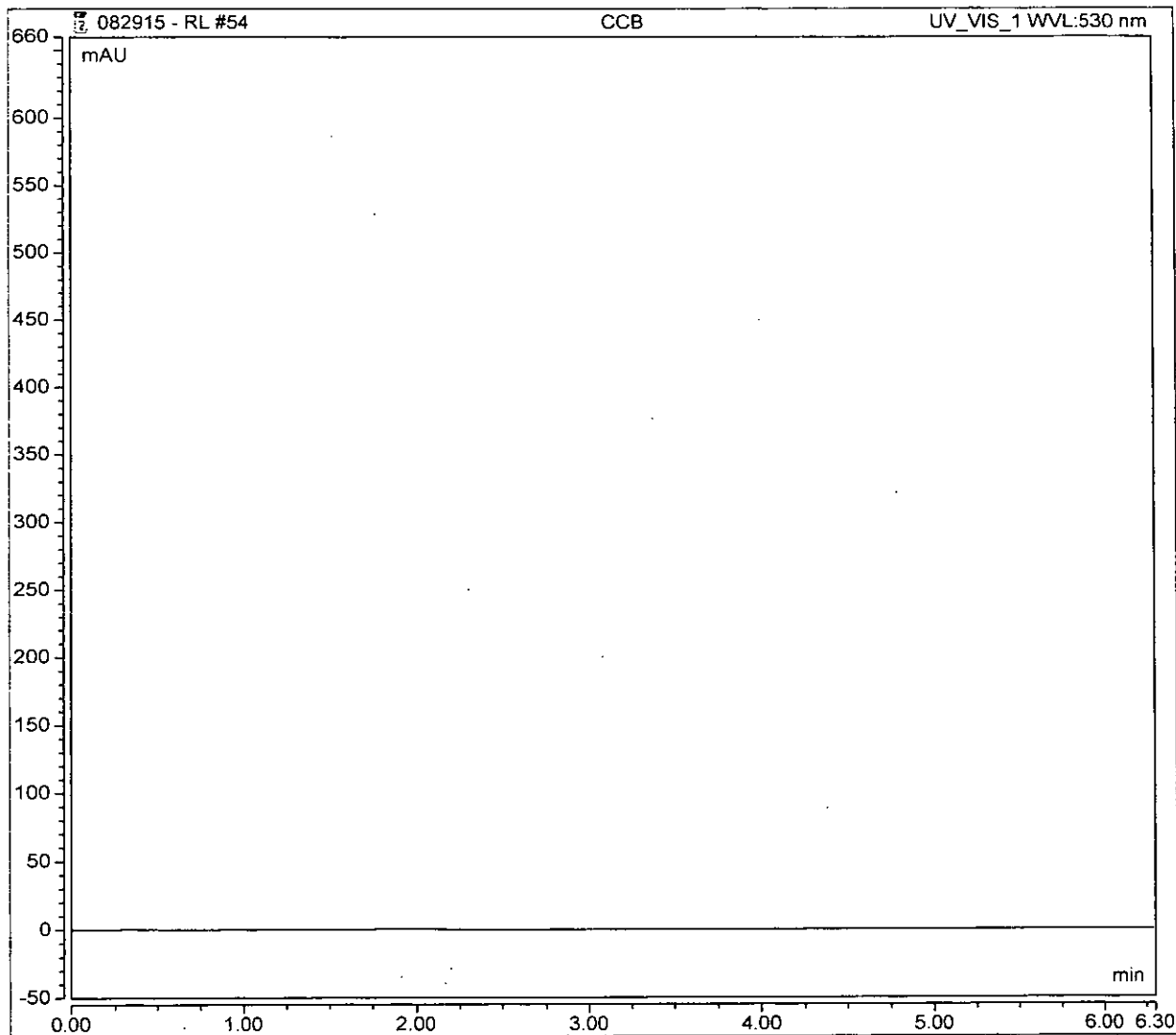
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	4.01	Cr(VI)	BMB	79.502	259.981	0.5161



### Peak Integration Report

Sample Name:	CCB	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	54
Inj. Date / Time:	29-Aug-2015 / 17:30	Sample Comment:	7199/218.6 RL

No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount n.a.
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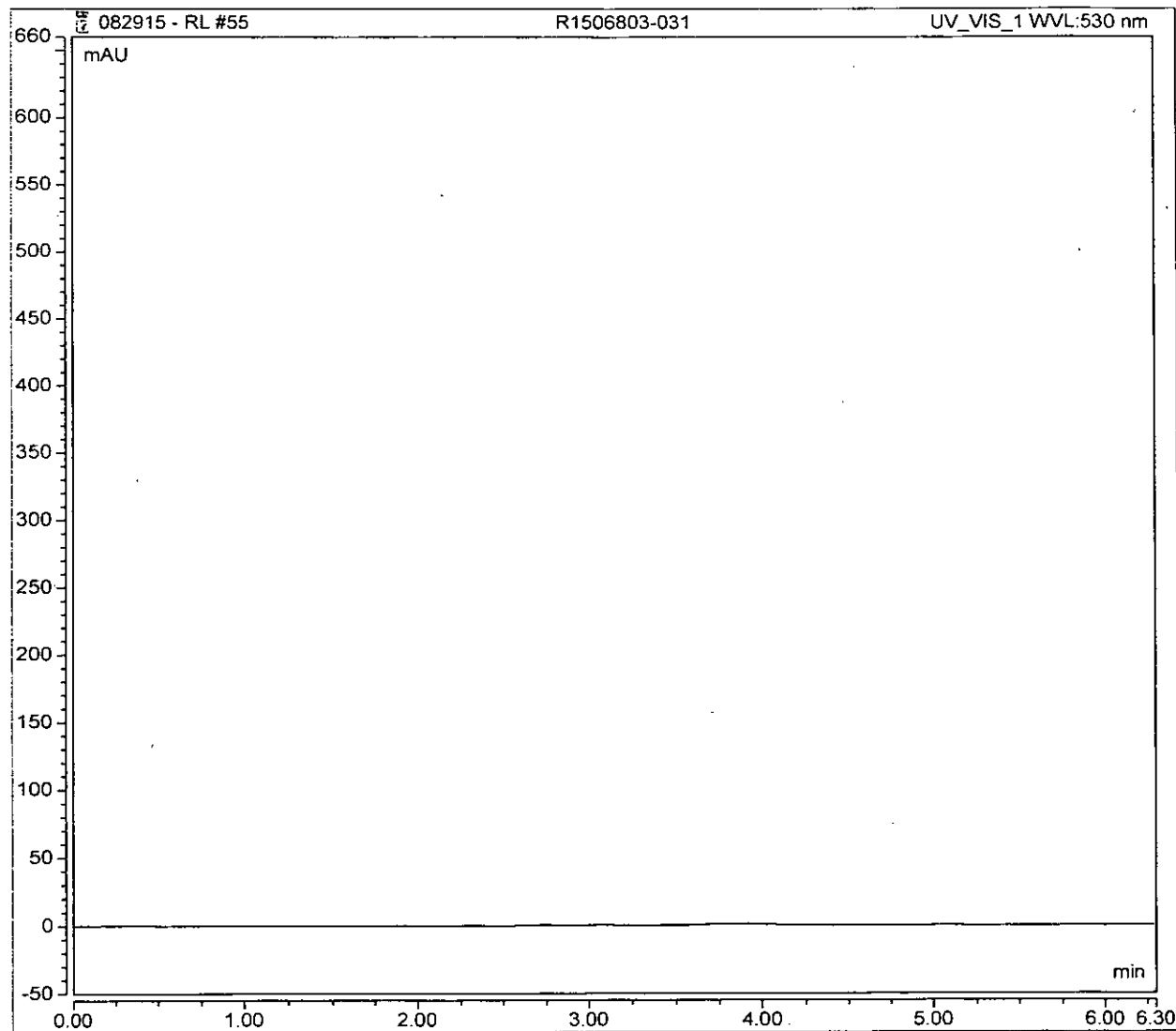




### Peak Integration Report

Sample Name:	R1506803-031	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	55
Inj. Date / Time:	29-Aug-2015 / 17:38	Sample Comment:	7199

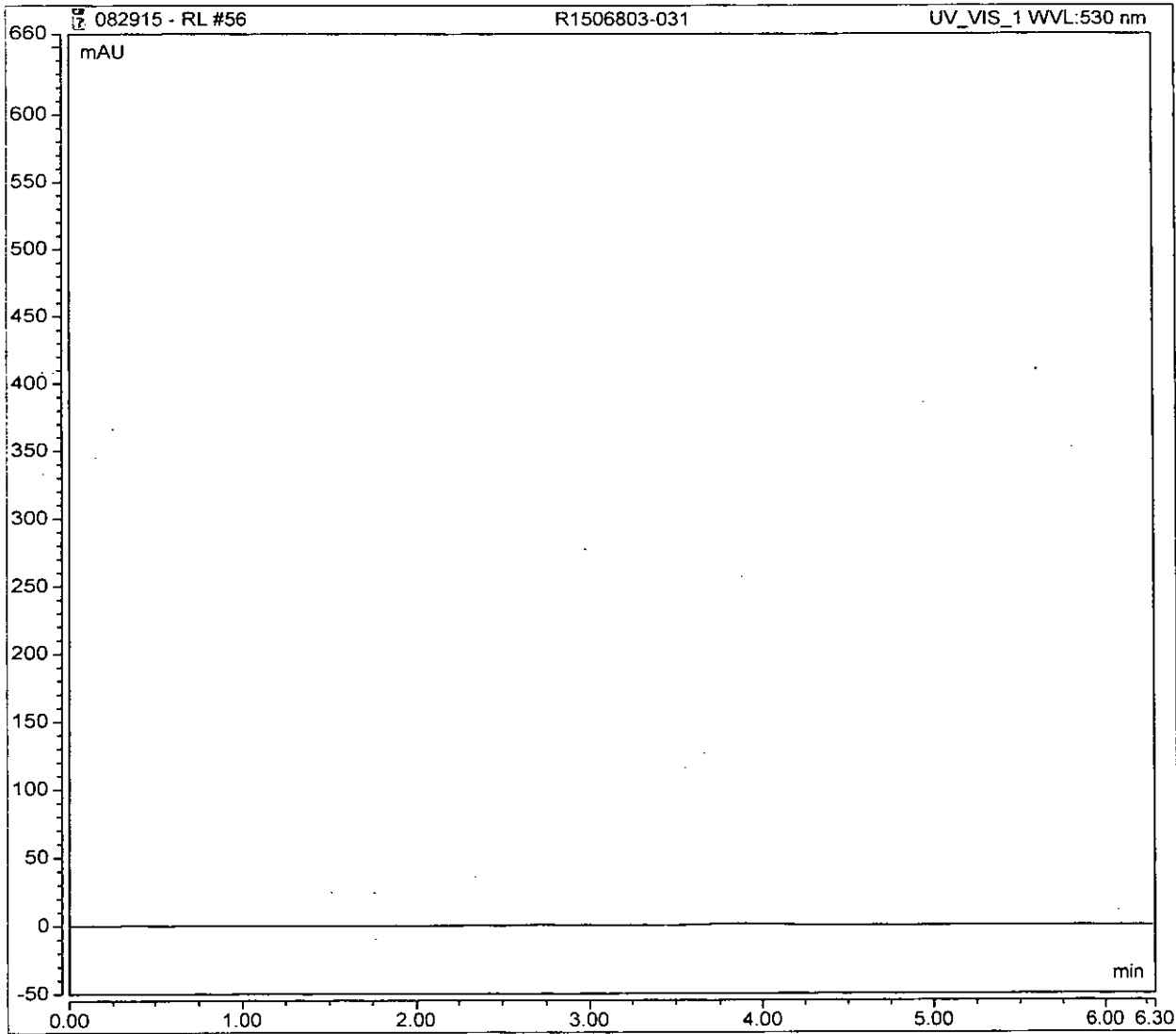
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount n.a.
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### Peak Integration Report

Sample Name:	R1506803-031	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	56
Inj. Date / Time:	29-Aug-2015 / 17:46	Sample Comment:	7199 REPLICATE

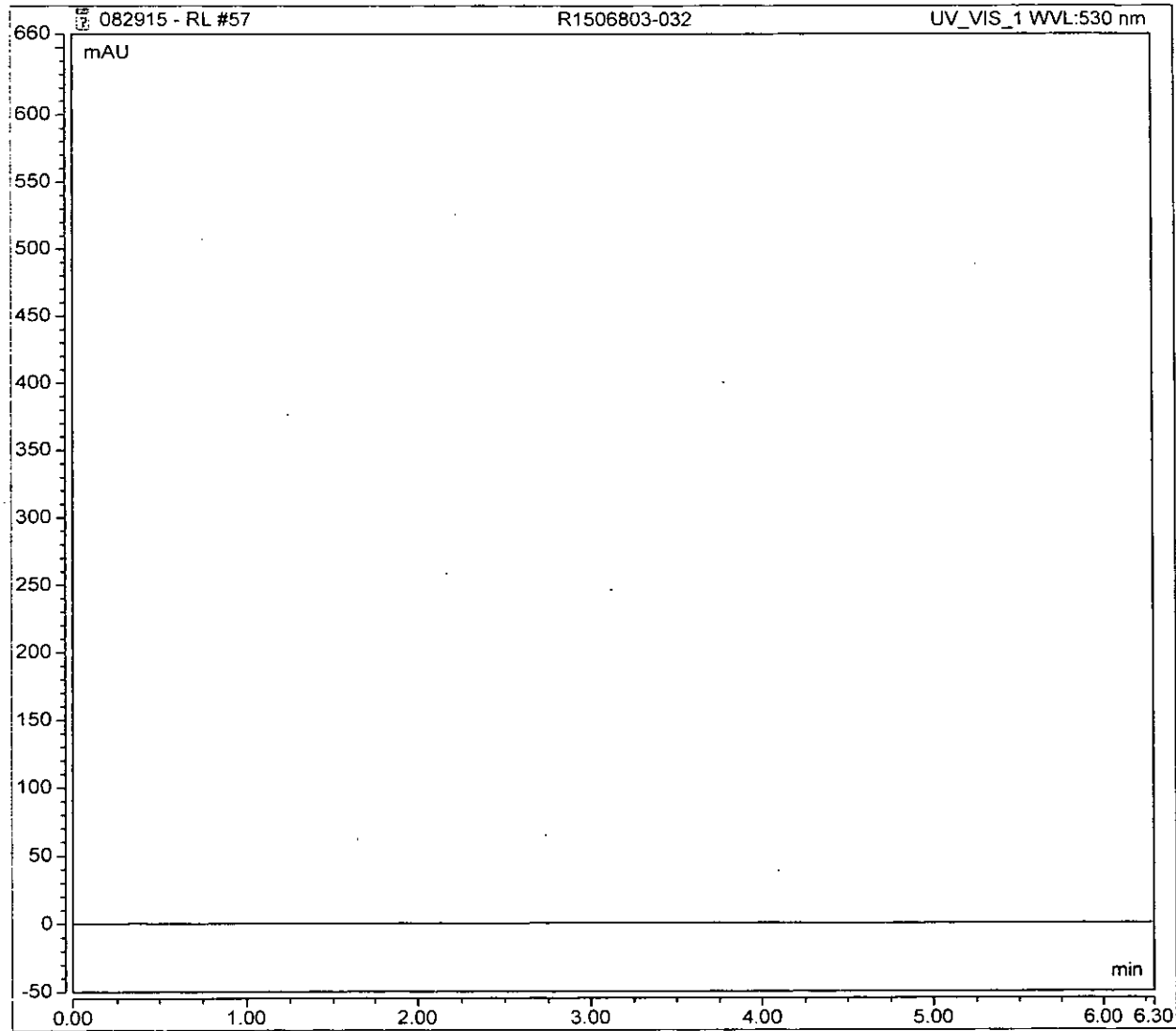
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount n.a.
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### Peak Integration Report

Sample Name:	R1506803-032	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	57
Inj. Date / Time:	29-Aug-2015 / 17:53	Sample Comment:	7199

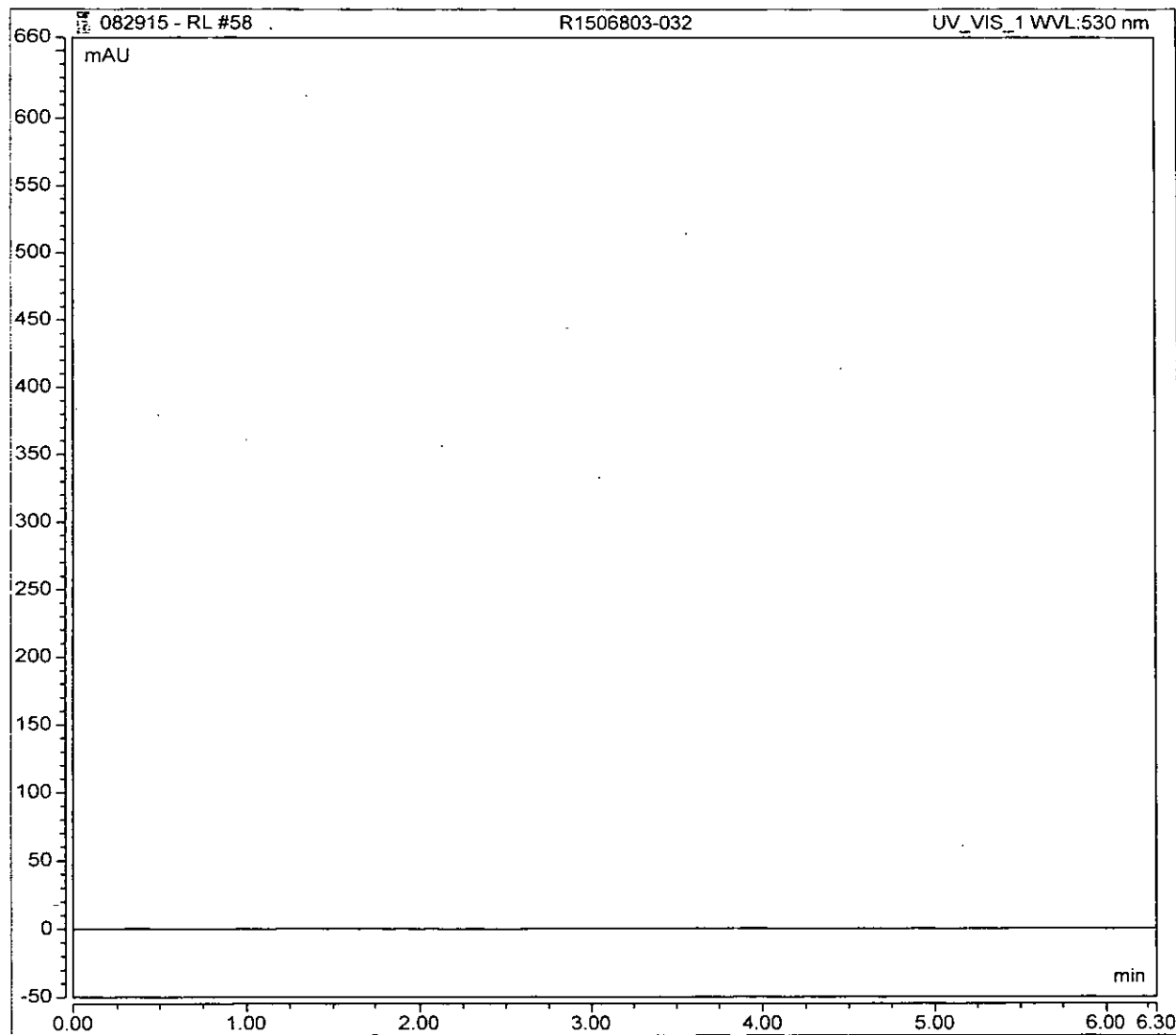
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount n.a.
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### Peak Integration Report

Sample Name:	R1506803-032	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	58
Inj. Date / Time:	29-Aug-2015 / 18:02	Sample Comment:	7199 REPLICATE

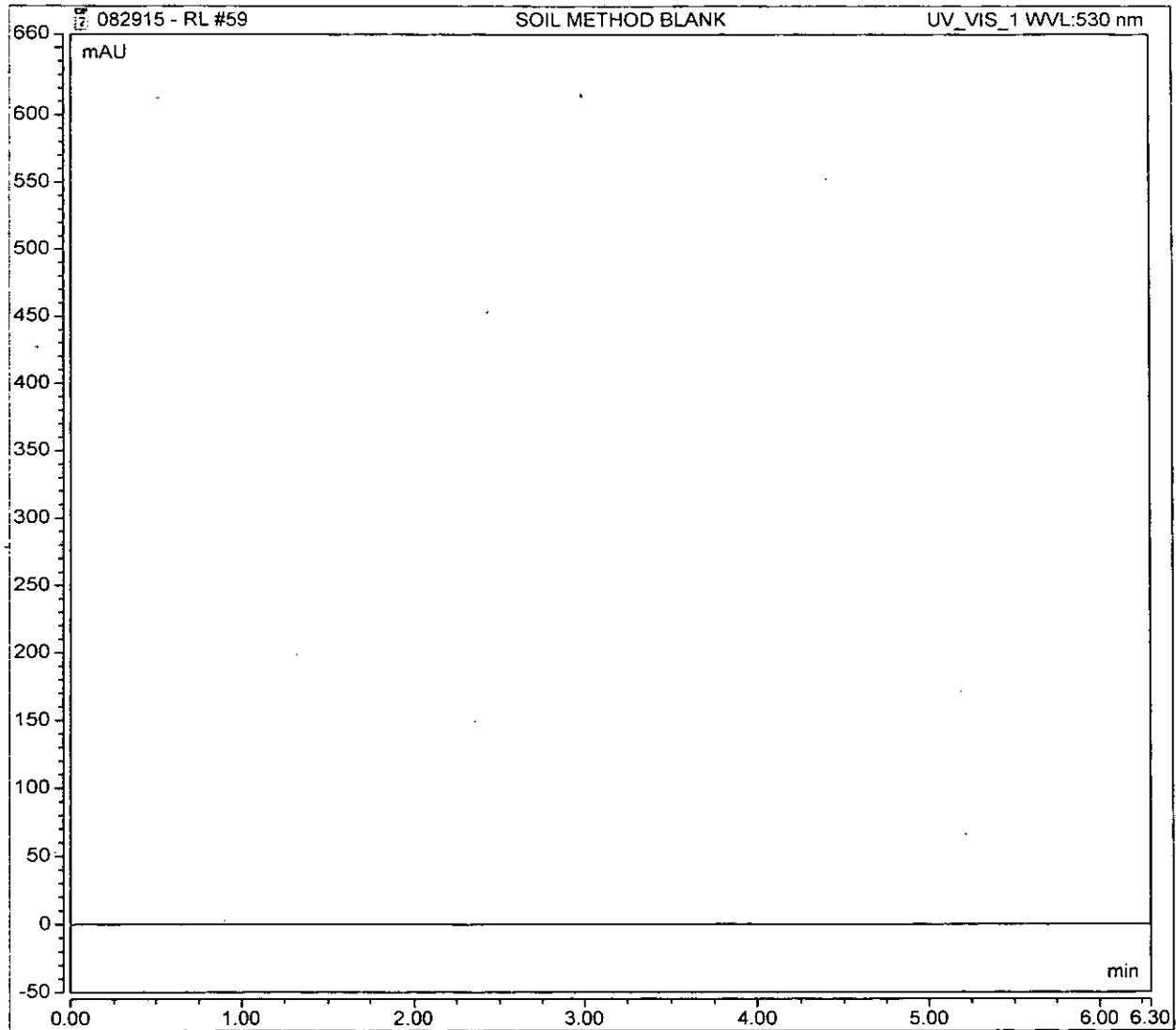
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount n.a.
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### Peak Integration Report

Sample Name:	SOIL METHOD BLANK	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	59
Inj. Date / Time:	29-Aug-2015 / 18:09	Sample Comment:	7199

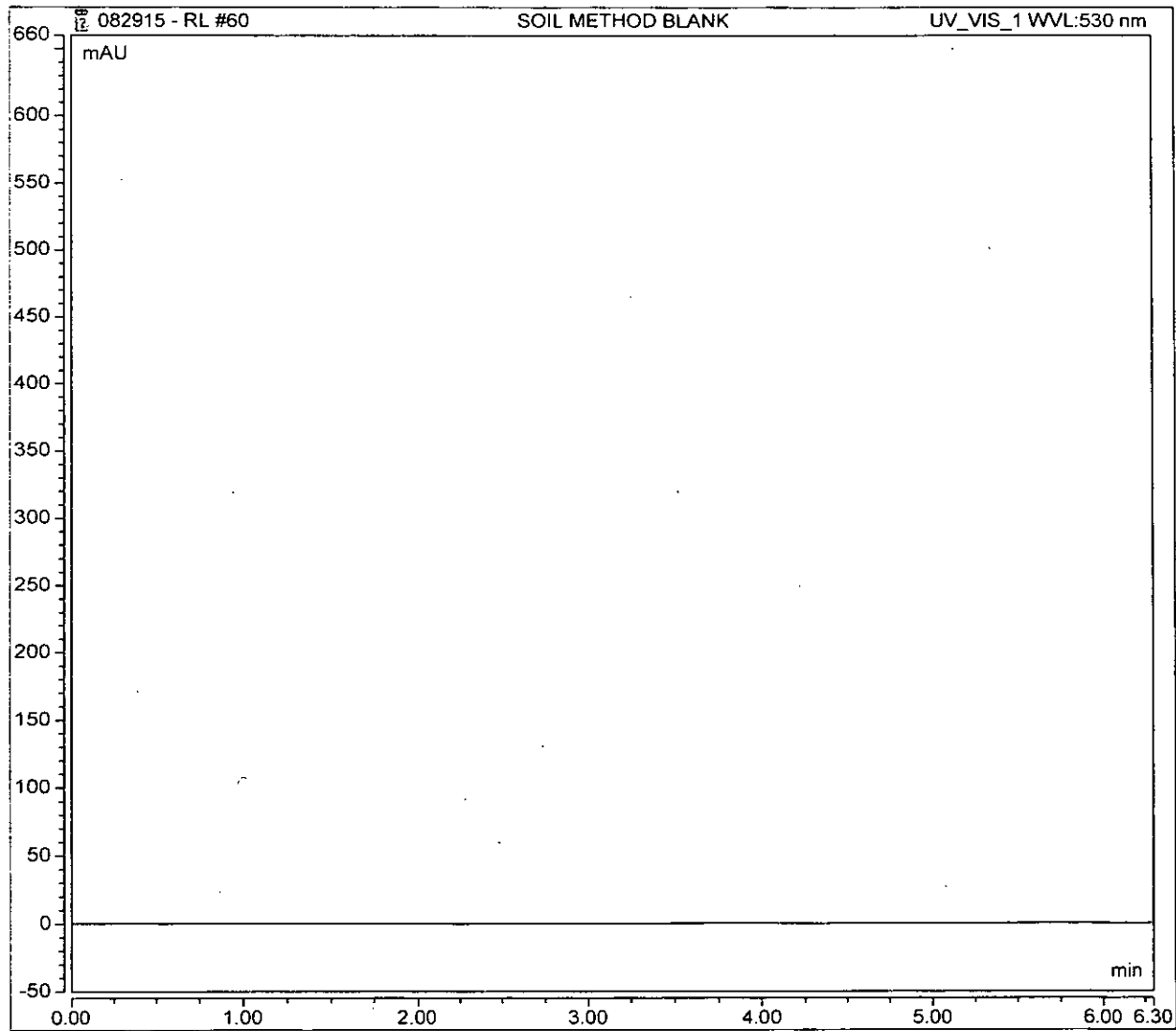
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount n.a.
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### Peak Integration Report

Sample Name:	SOIL METHOD BLANK	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	60
Inj. Date / Time:	29-Aug-2015 / 18:18	Sample Comment:	7199 REPLICATE

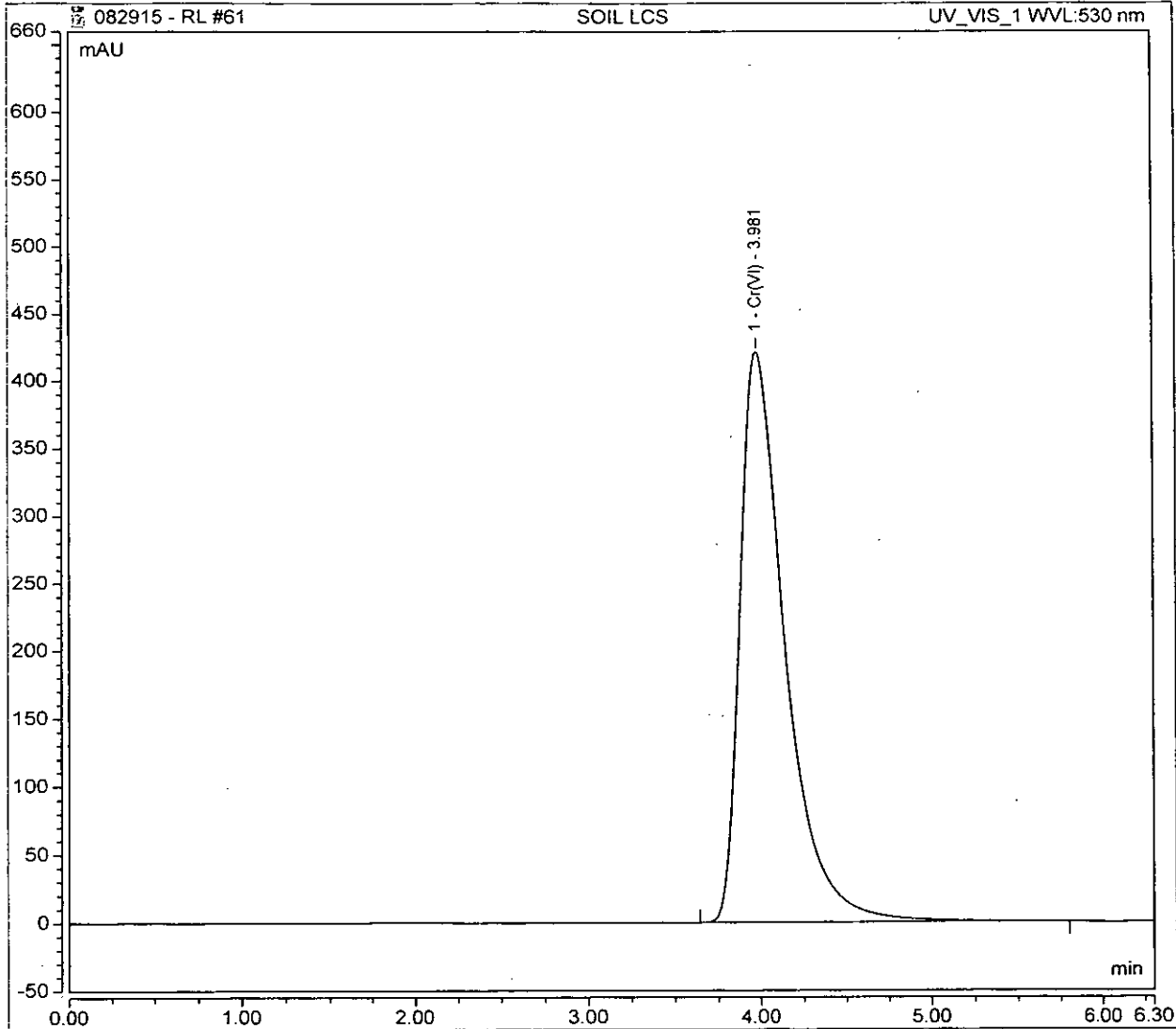
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount n.a.
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### Peak Integration Report

Sample Name:	SOIL LCS	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	20.0000
Processing Method:	5-082915 RL	Injection Number:	61
Inj. Date / Time:	29-Aug-2015 / 18:25	Sample Comment:	7199

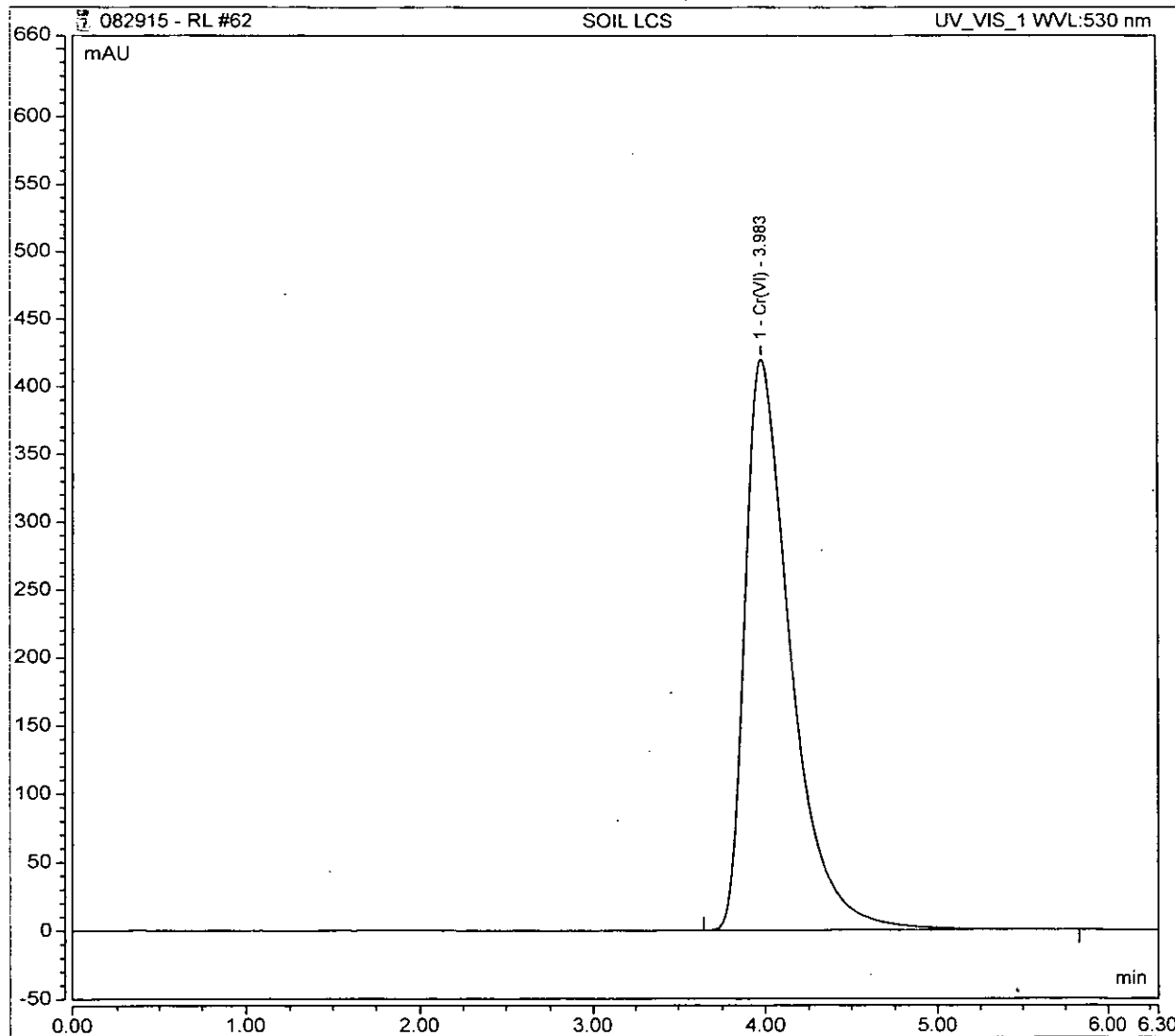
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	3.98	Cr(VI)	BMB	129.222	421.625	16.7751



### Peak Integration Report

Sample Name:	SOIL LCS	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	20.0000
Processing Method:	5-082915 RL	Injection Number:	62
Inj. Date / Time:	29-Aug-2015 / 18:33	Sample Comment:	7199 REPLICATE

No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	3.98	Cr(VI)	BMB	129.137	420.159	16.7641

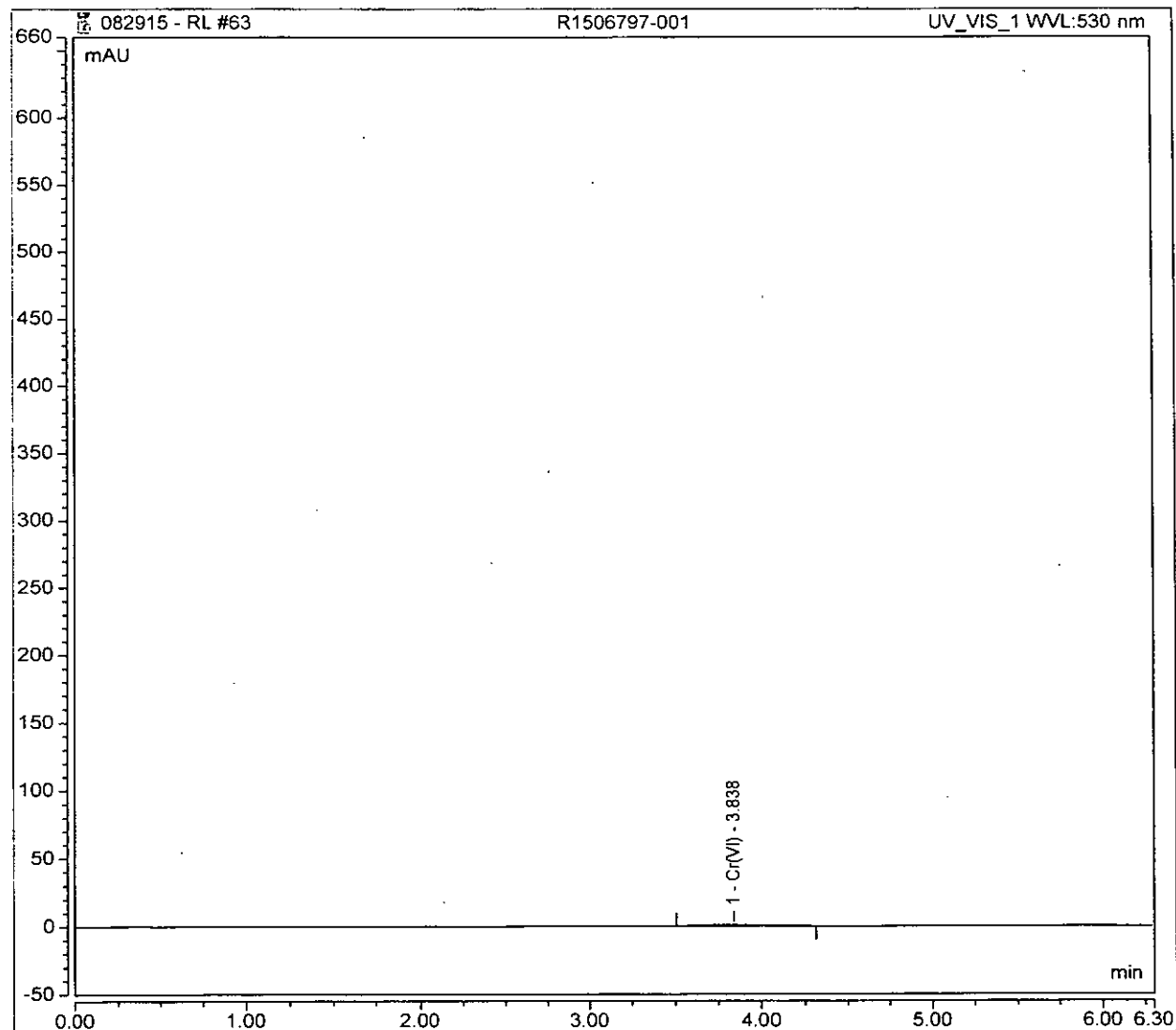




### Peak Integration Report

Sample Name:	R1506797-001	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	63
Inj. Date / Time:	29-Aug-2015 / 18:40	Sample Comment:	7199

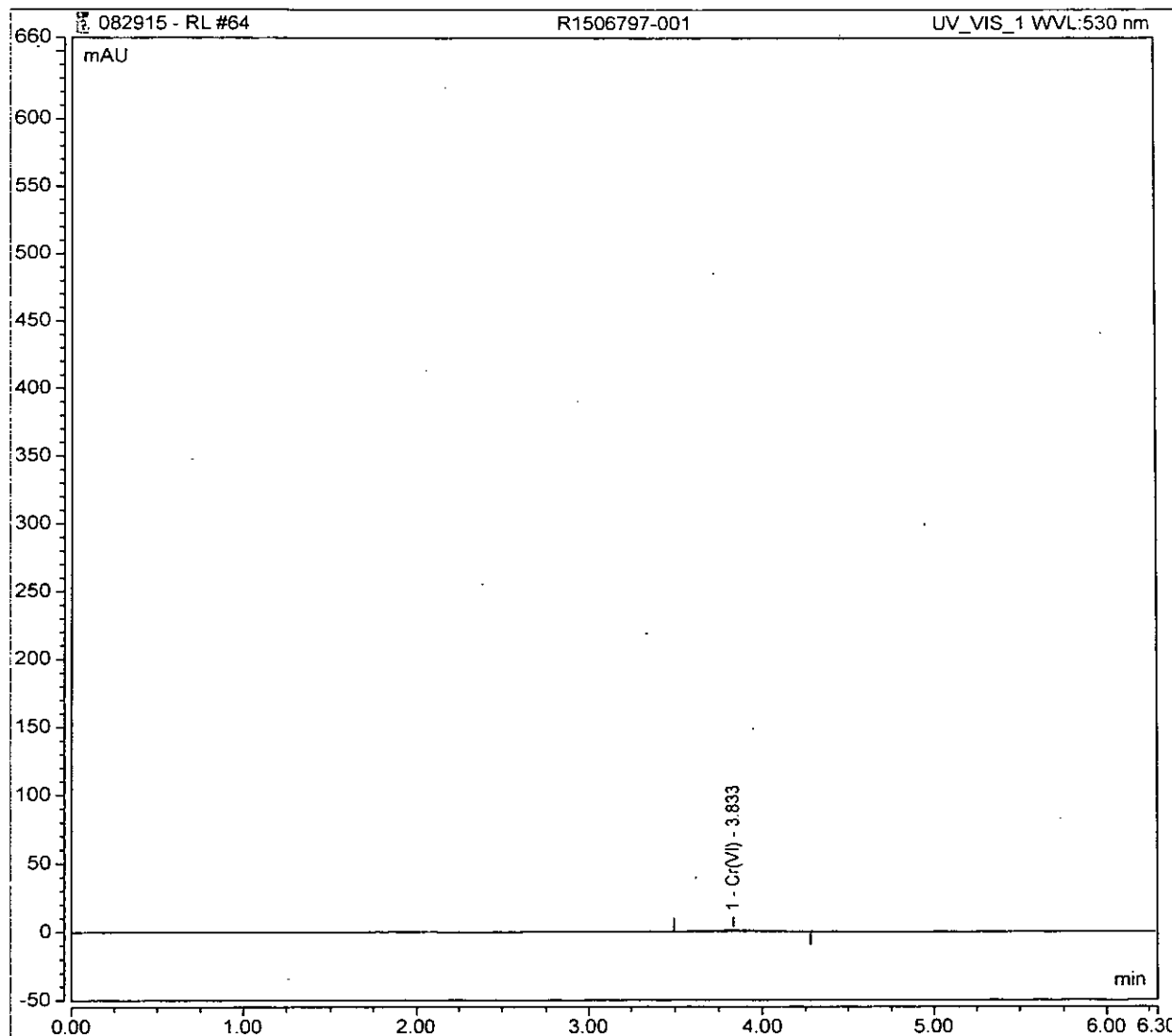
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	3.84	Cr(VI)	BMB	0.334	0.861	0.0023



### Peak Integration Report

Sample Name:	R1506797-001	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	64
Inj. Date / Time:	29-Aug-2015 / 18:49	Sample Comment:	7199 REPLICATE

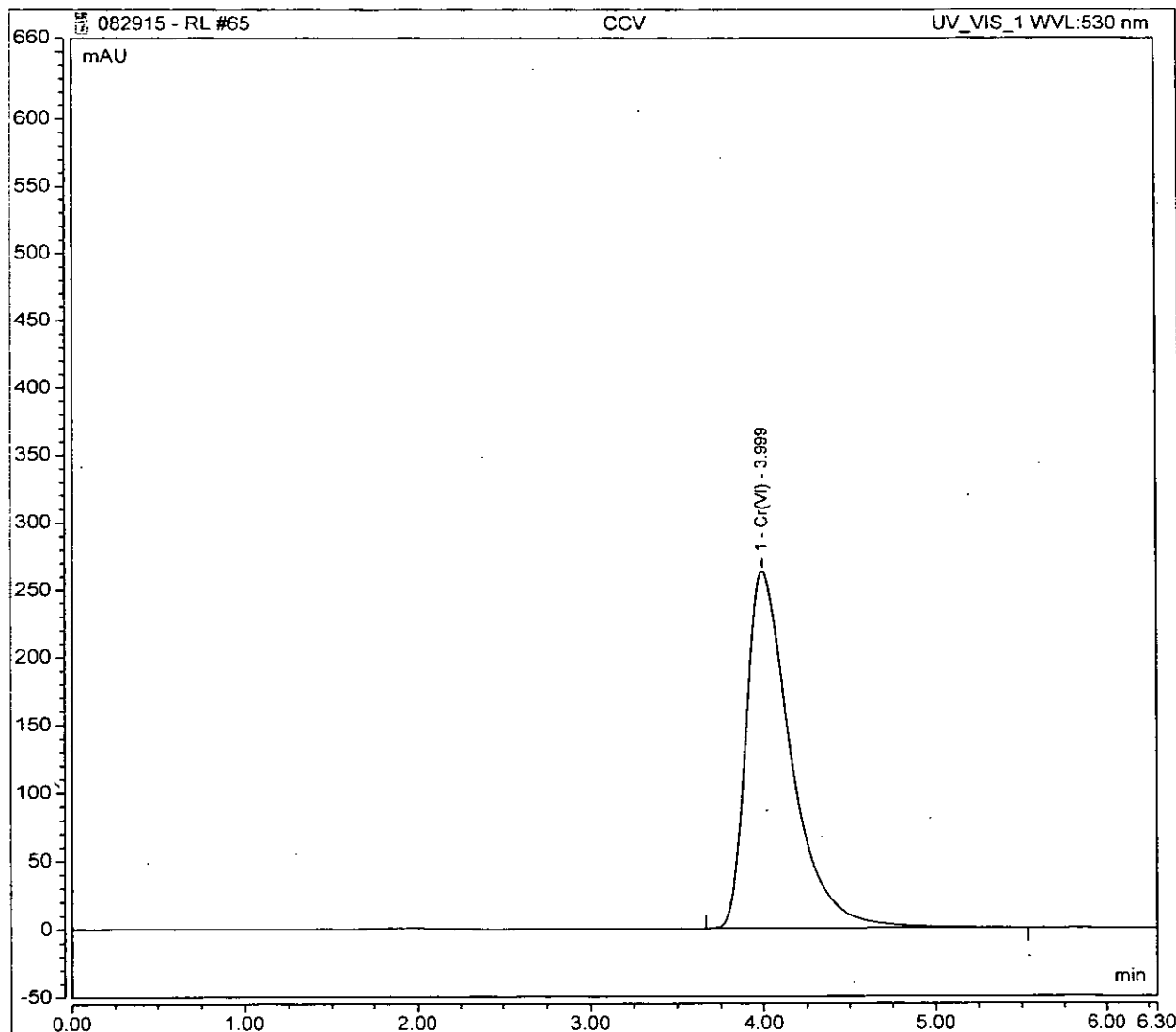
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	3.83	Cr(VI)	BMB	0.320	0.845	0.0022



### Peak Integration Report

Sample Name:	CCV	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	65
Inj. Date / Time:	29-Aug-2015 / 18:56	Sample Comment:	7199/218.6 RL

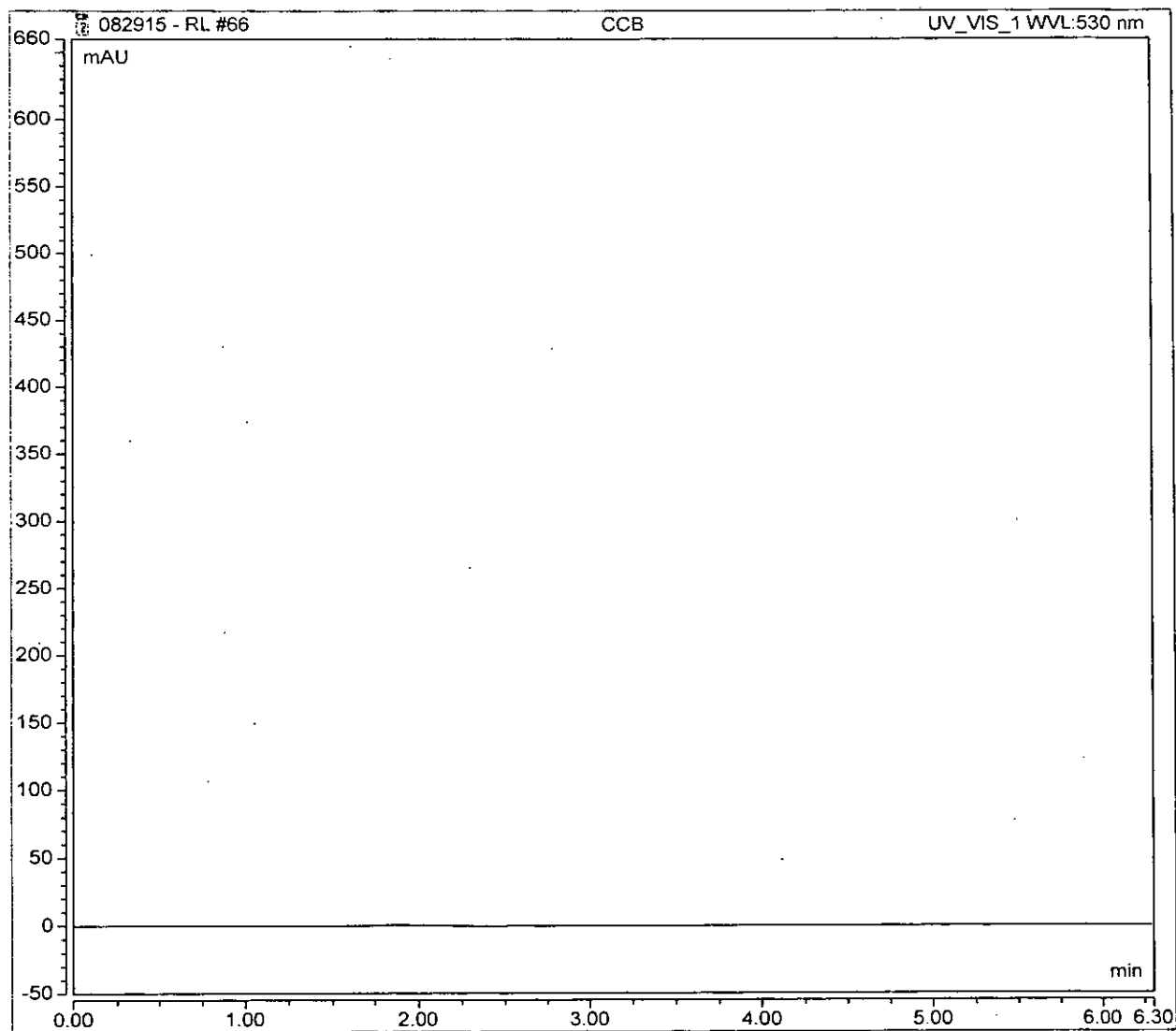
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	4.00	Cr(VI)	BMB	79.698	263.328	0.5173



### Peak Integration Report

Sample Name:	CCB	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	66
Inj. Date / Time:	29-Aug-2015 / 19:05	Sample Comment:	7199/218.6 RL

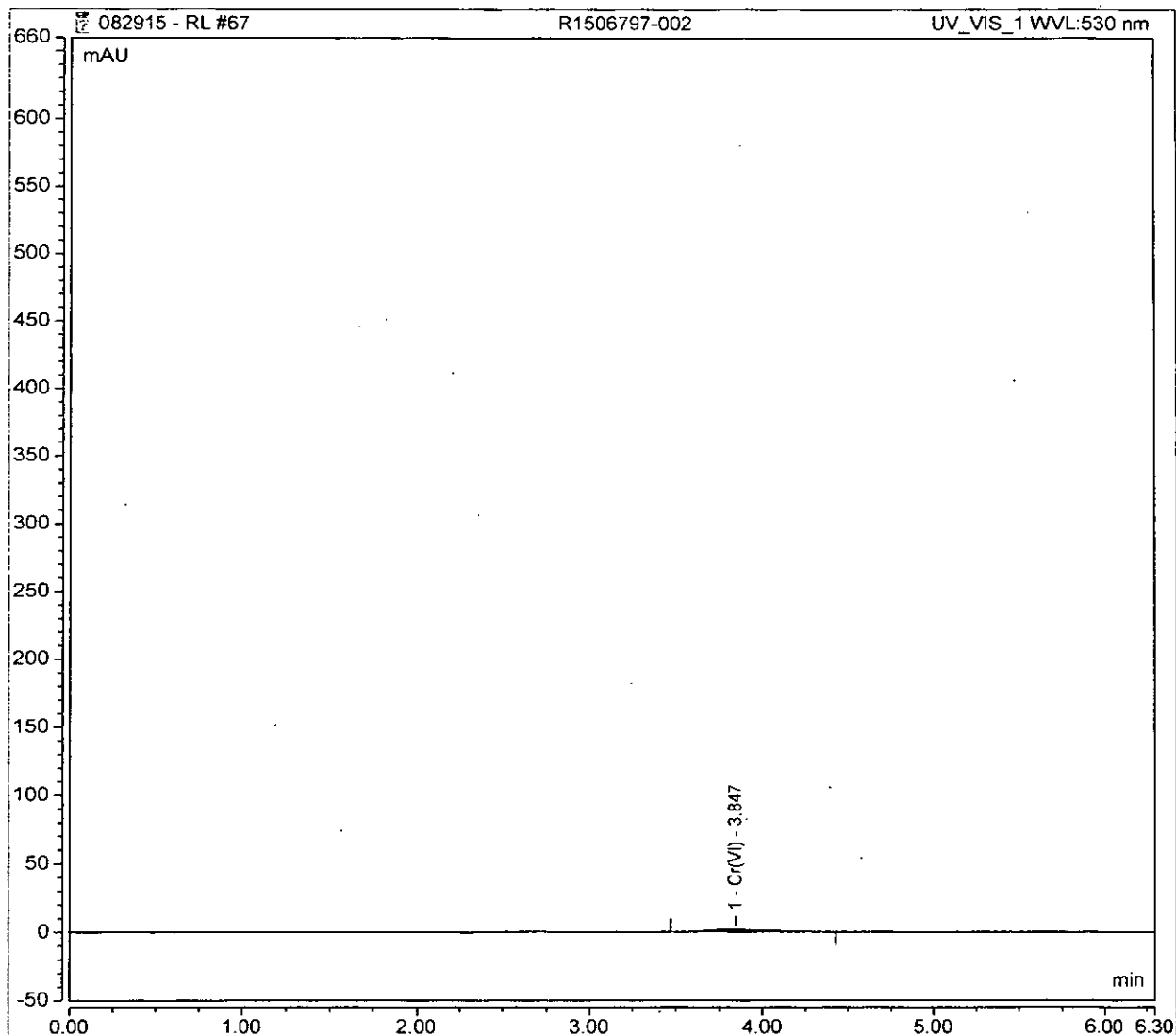
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount n.a.
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### Peak Integration Report

Sample Name:	R1506797-002	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	67
Inj. Date / Time:	29-Aug-2015 / 19:14	Sample Comment:	7199

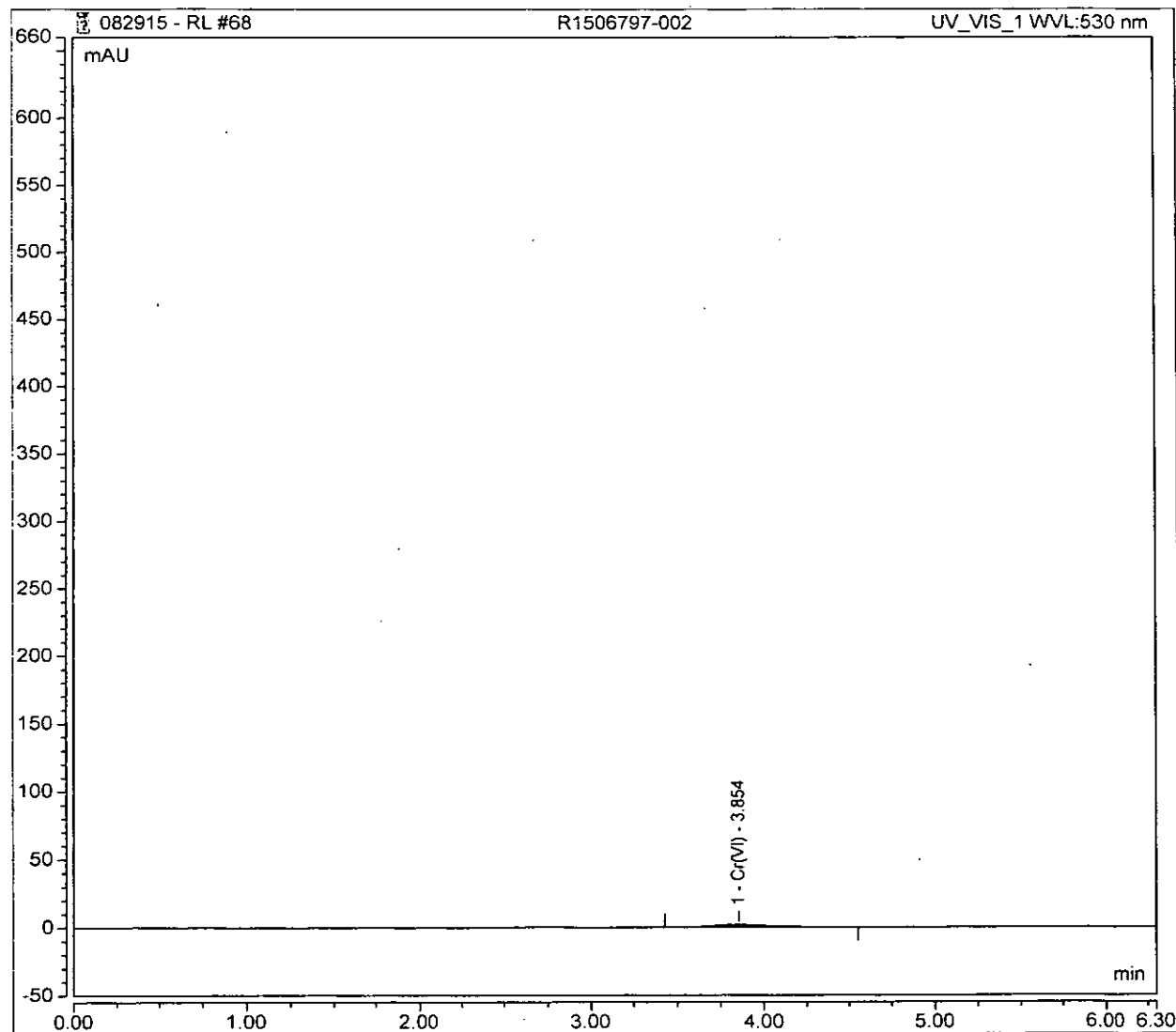
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	3.85	Cr(VI)	BMB	0.693	1.771	0.0046



### Peak Integration Report

Sample Name:	R1506797-002	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	68
Inj. Date / Time:	29-Aug-2015 / 19:23	Sample Comment:	7199 REPLICATE

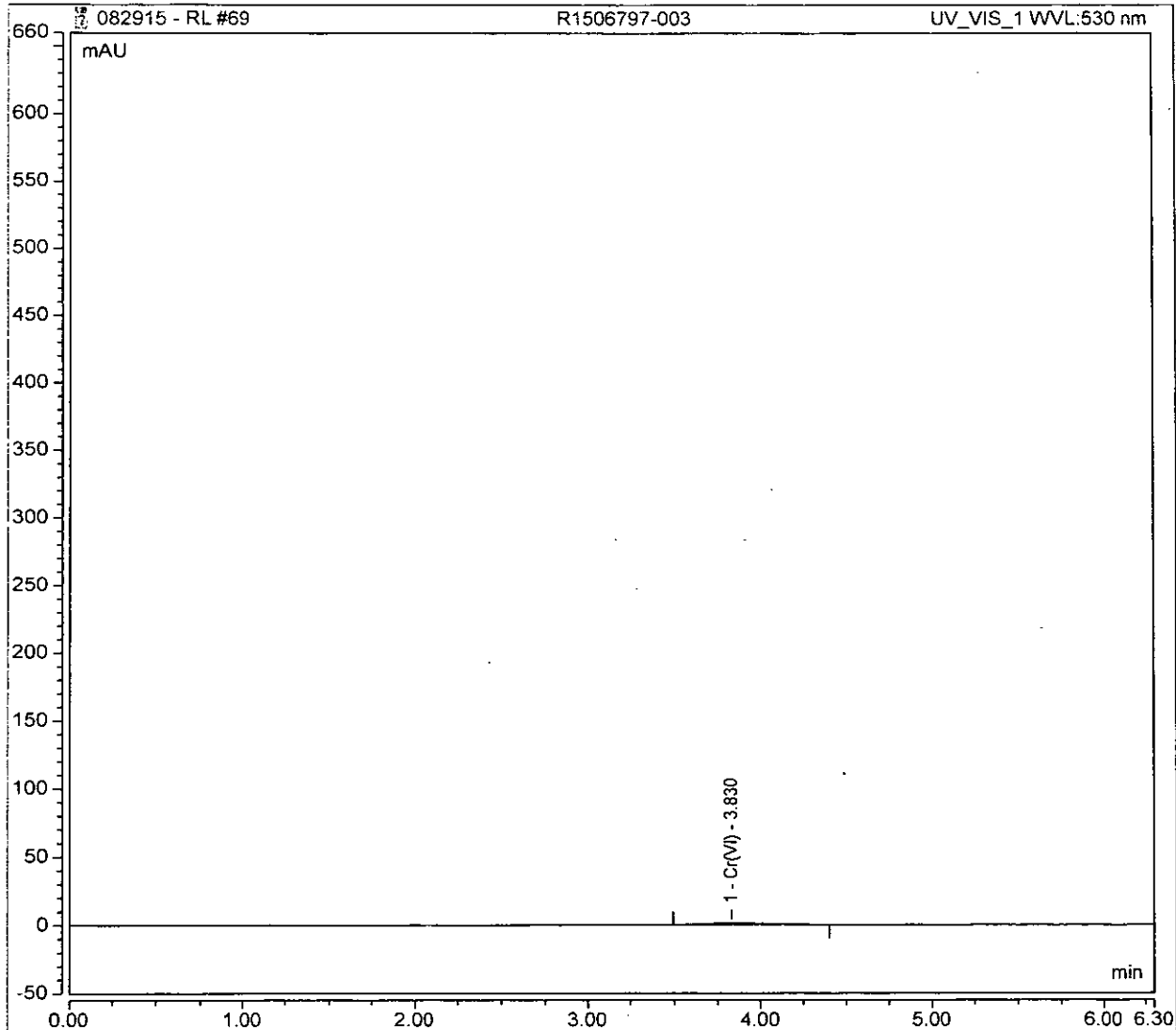
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	3.85	Cr(VI)	BMB	0.737	1.806	0.0049



### Peak Integration Report

Sample Name:	R1506797-003	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	69
Inj. Date / Time:	29-Aug-2015 / 19:30	Sample Comment:	7199

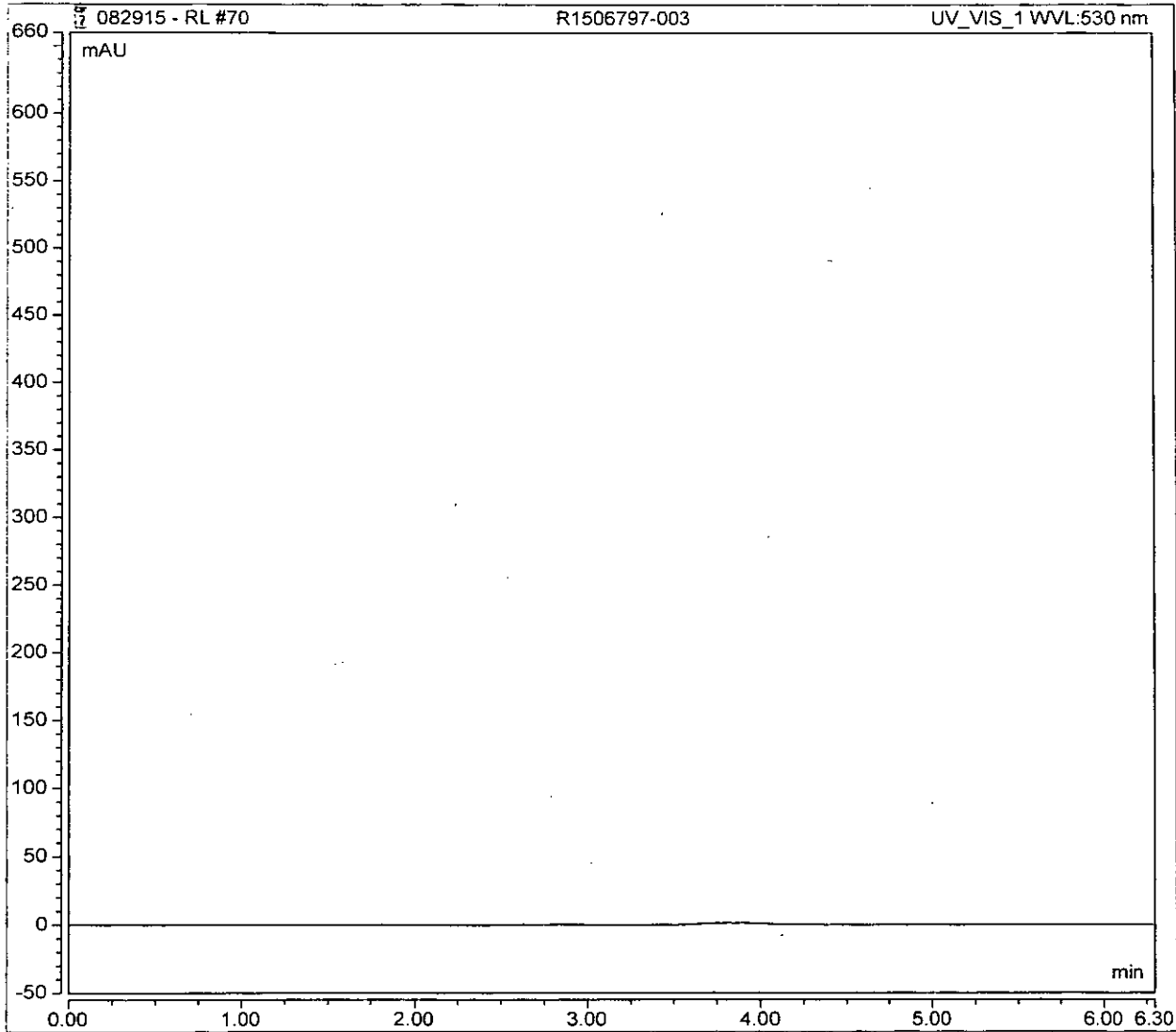
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	3.83	Cr(VI)	BMB	0.544	1.345	0.0036



### Peak Integration Report

Sample Name:	R1506797-003	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	70
Inj. Date / Time:	29-Aug-2015 / 19:38	Sample Comment:	7199 REPLICATE

No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount n.a.
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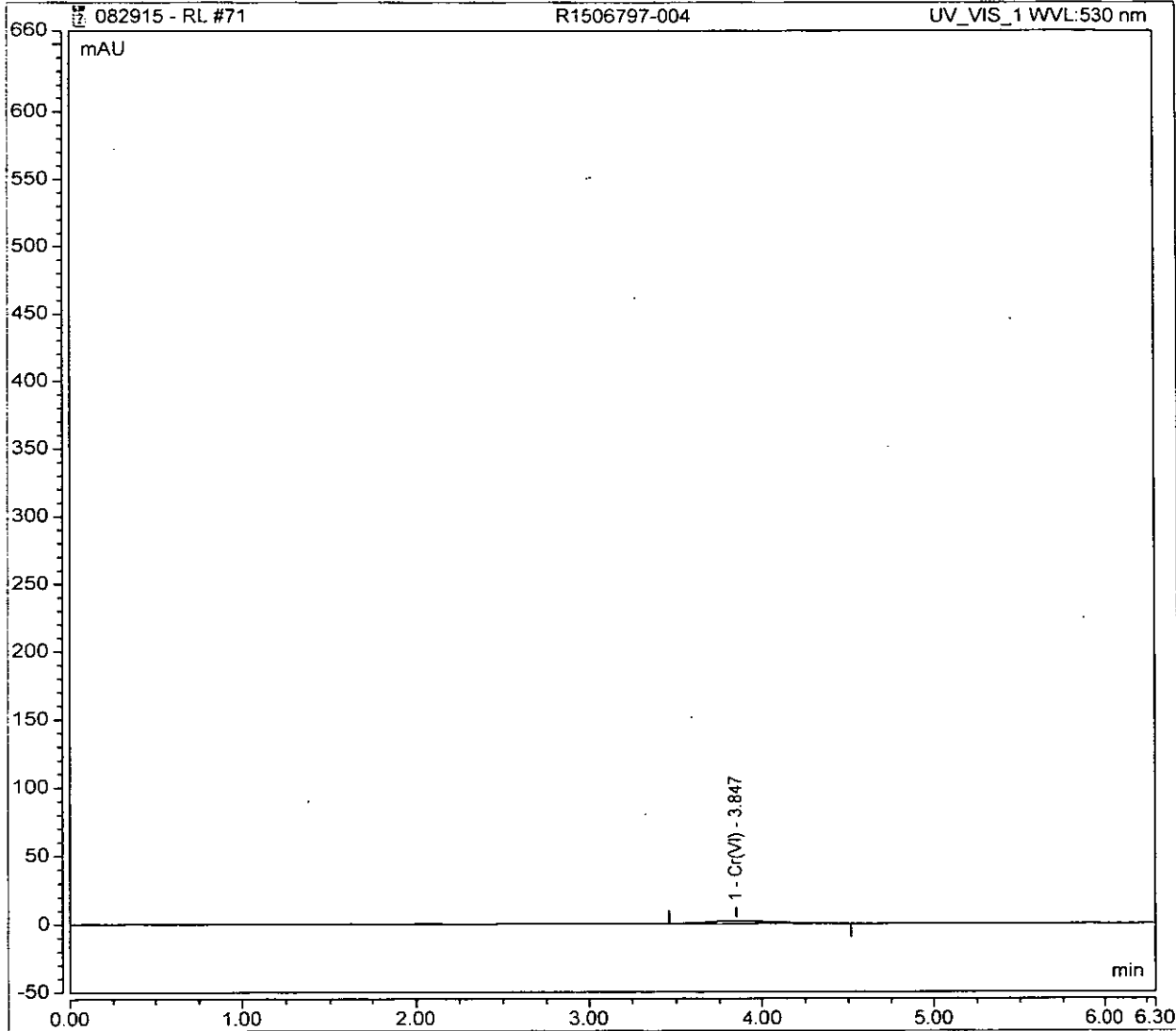




### Peak Integration Report

Sample Name:	R1506797-004	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	71
Inj. Date / Time:	29-Aug-2015 / 19:46	Sample Comment:	7199

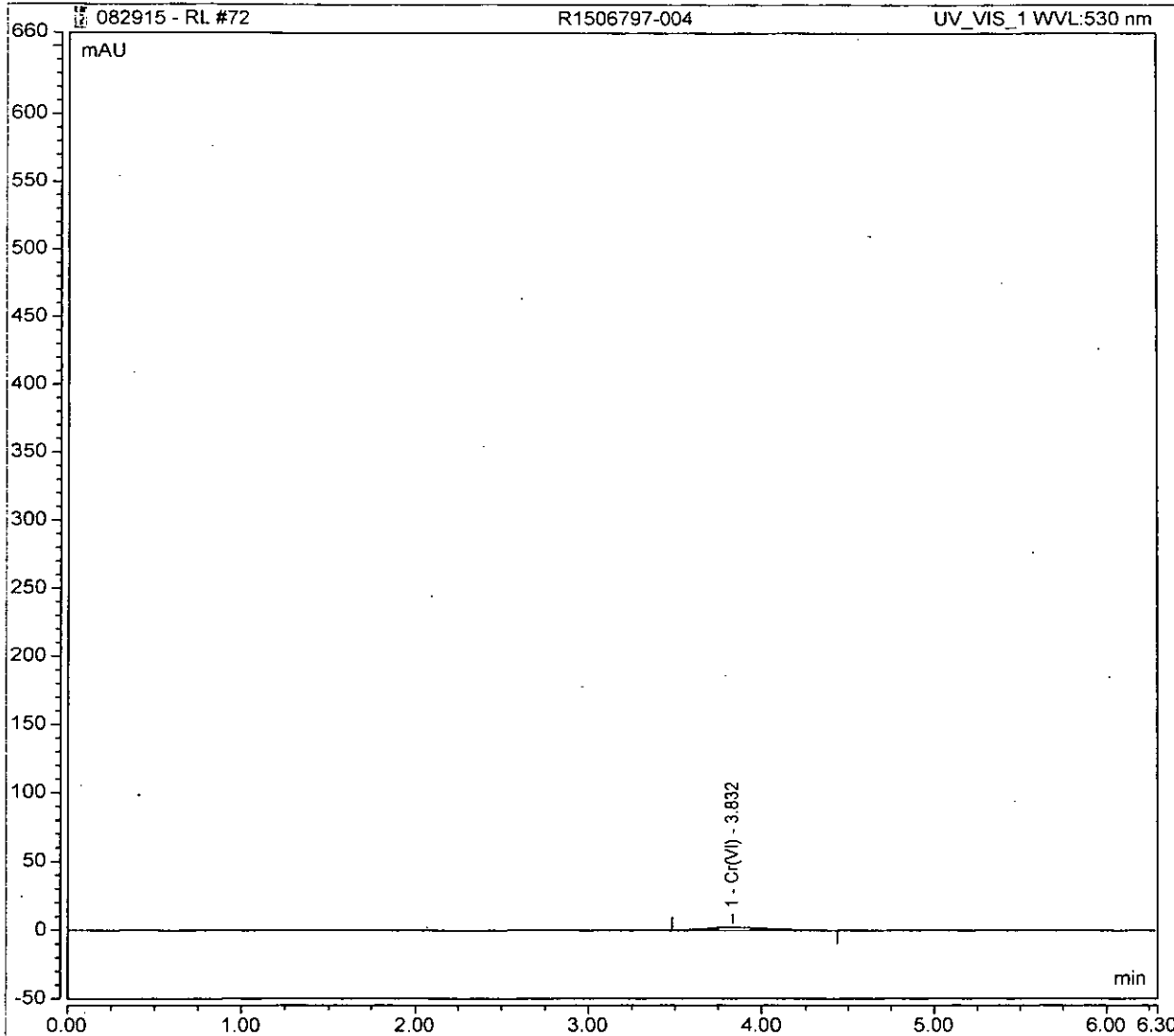
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	3.85	Cr(VI)	BMB	0.873	2.088	0.0058



### Peak Integration Report

Sample Name:	R1506797-004	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	72
Inj. Date / Time:	29-Aug-2015 / 19:54	Sample Comment:	7199 REPLICATE

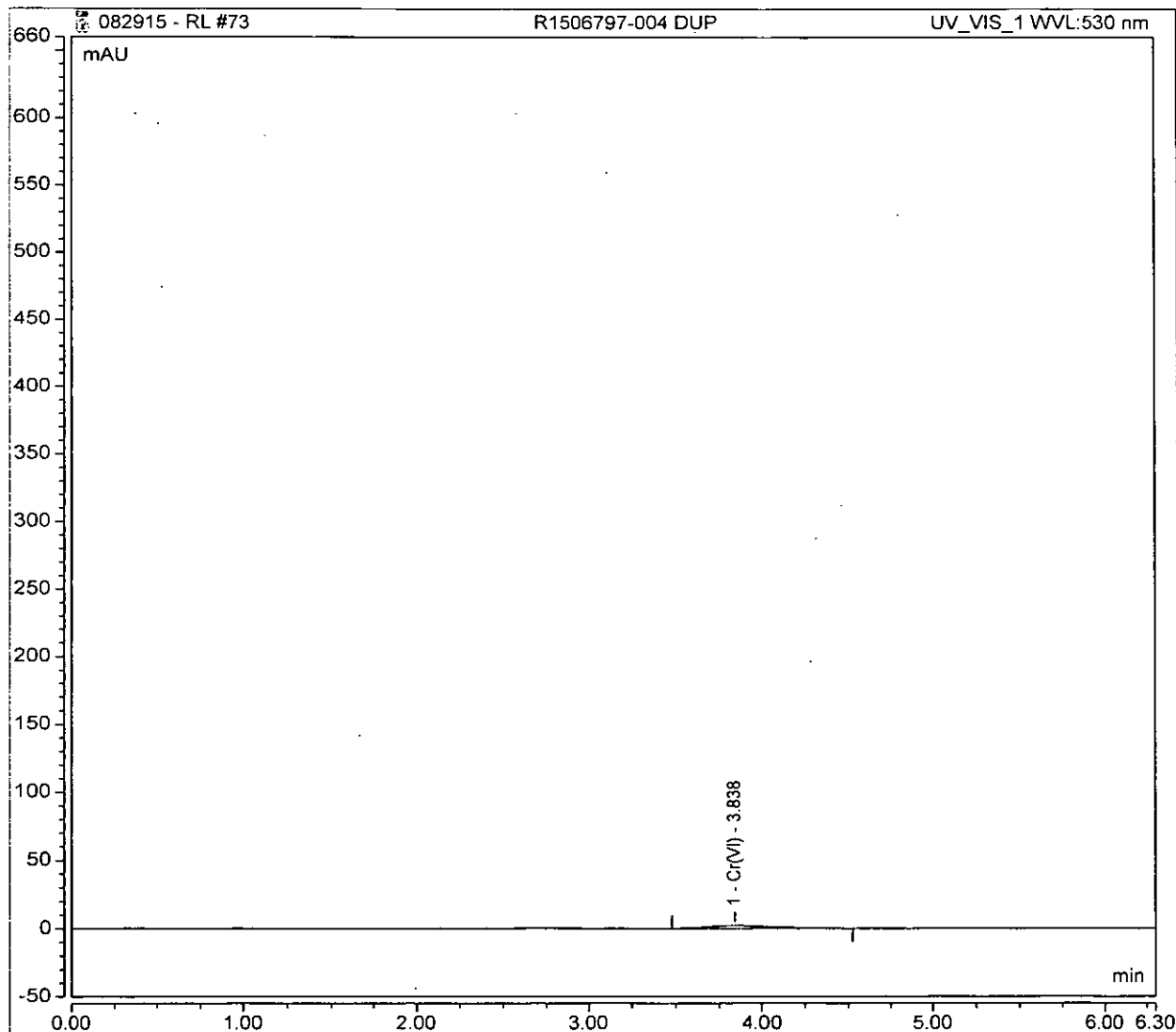
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	3.83	Cr(VI)	BMB	0.826	2.058	0.0055



### Peak Integration Report

Sample Name:	R1506797-004 DUP	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	73
Inj. Date / Time:	29-Aug-2015 / 20:01	Sample Comment:	7199

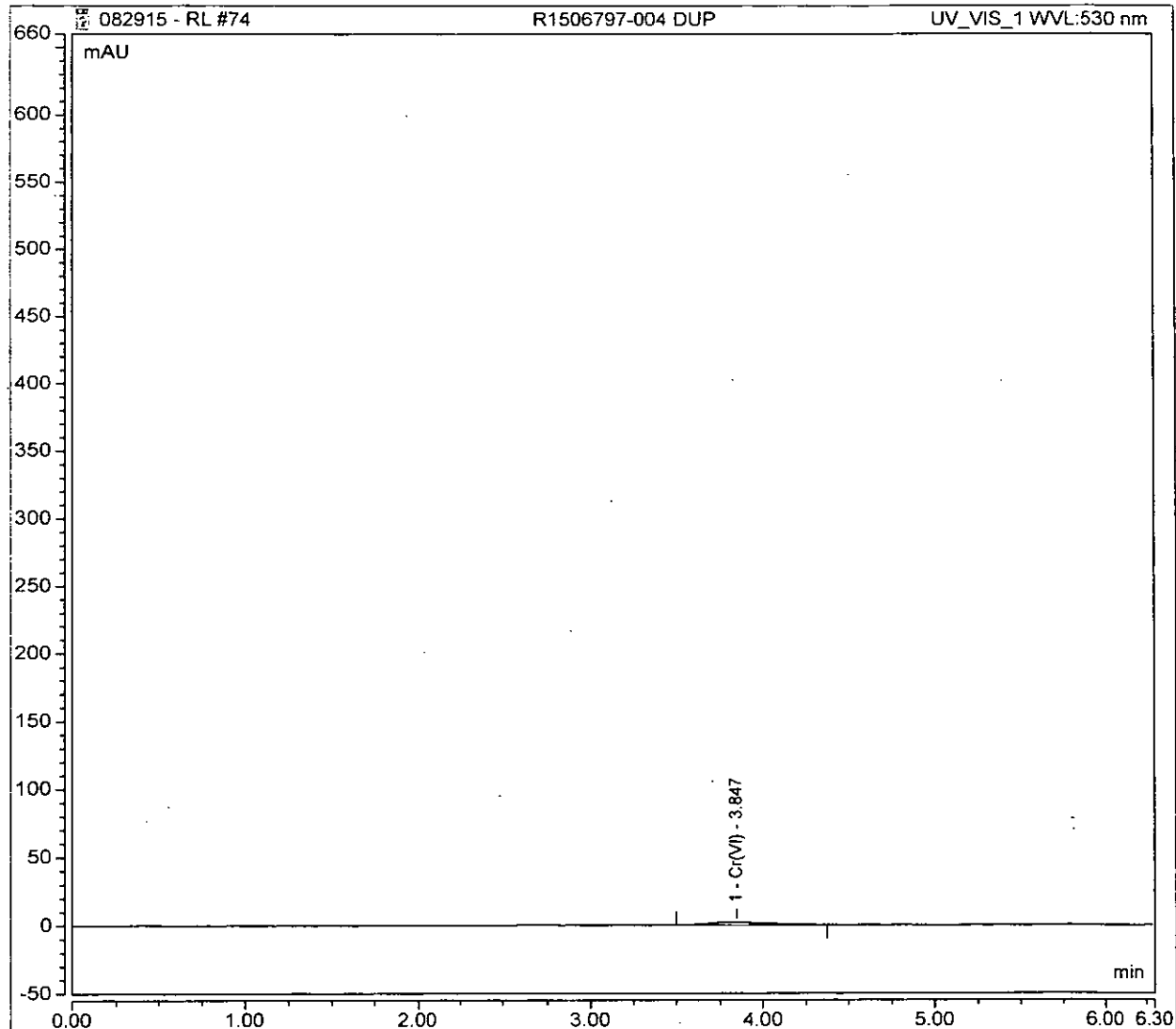
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	3.84	Cr(VI)	BMB	0.856	2.093	0.0057



### Peak Integration Report

Sample Name:	R1506797-004 DUP	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	74
Inj. Date / Time:	29-Aug-2015 / 20:10	Sample Comment:	7199 REPLICATE

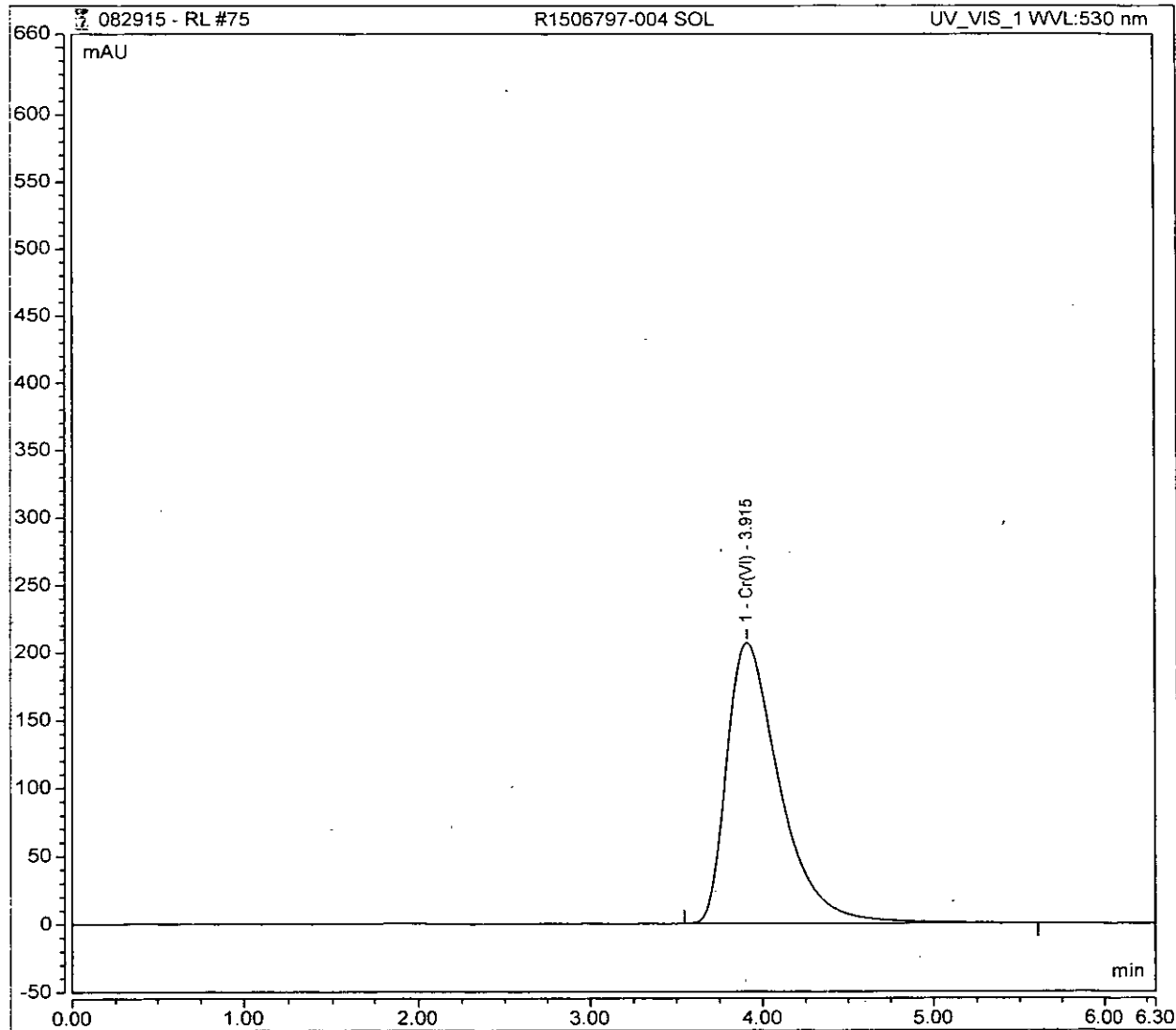
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	3.85	Cr(VI)	BMB	0.794	2.038	0.0053



### Peak Integration Report

Sample Name:	R1506797-004 SOL	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	2.0000
Processing Method:	5-082915 RL	Injection Number:	75
Inj. Date / Time:	29-Aug-2015 / 20:17	Sample Comment:	7199

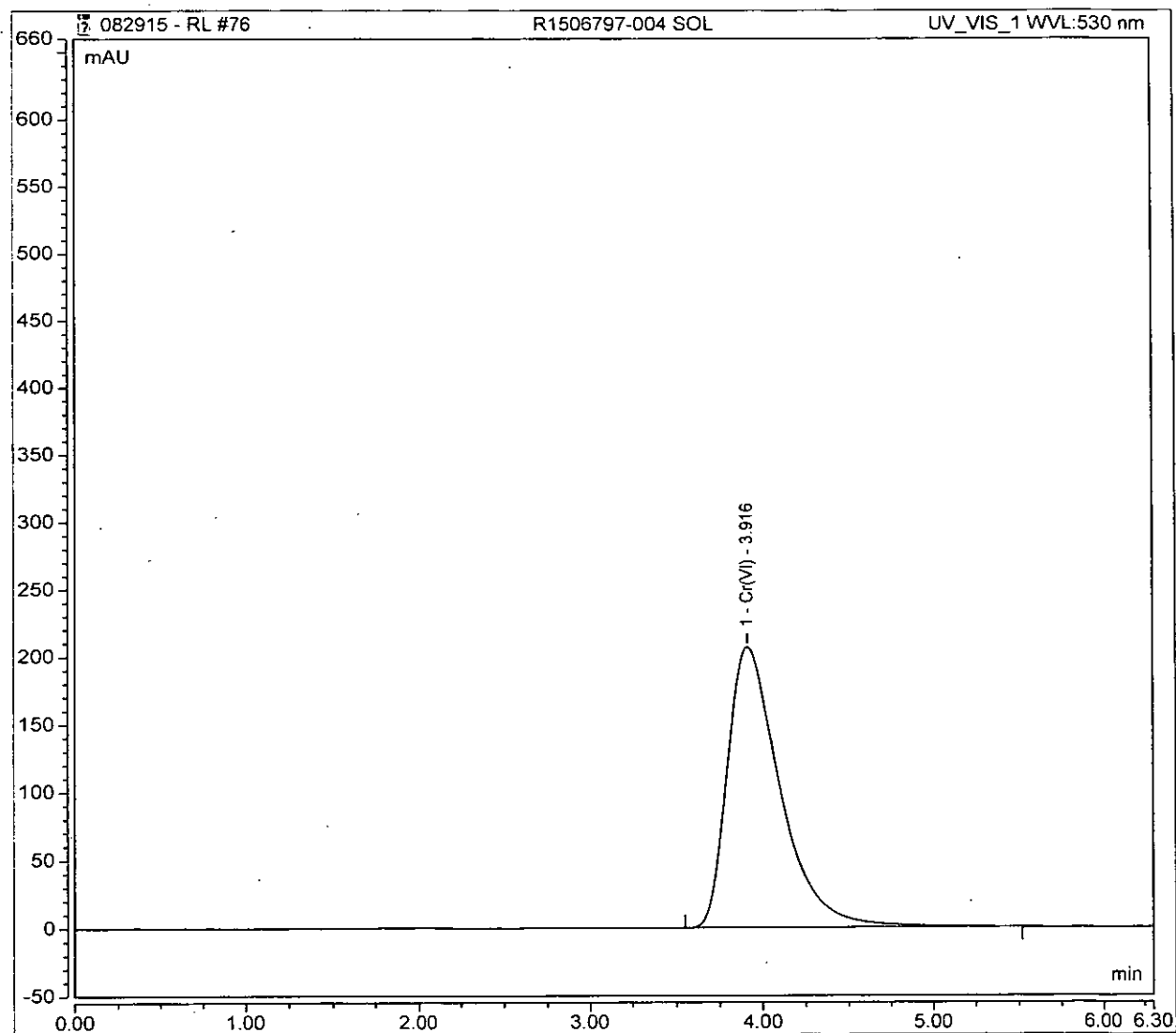
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	3.91	Cr(VI)	BMB	73.762	207.046	0.9576



### Peak Integration Report

Sample Name:	R1506797-004 SOL	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	2.0000
Processing Method:	5-082915 RL	Injection Number:	76
Inj. Date / Time:	29-Aug-2015 / 20:25	Sample Comment:	7199 REPLICATE

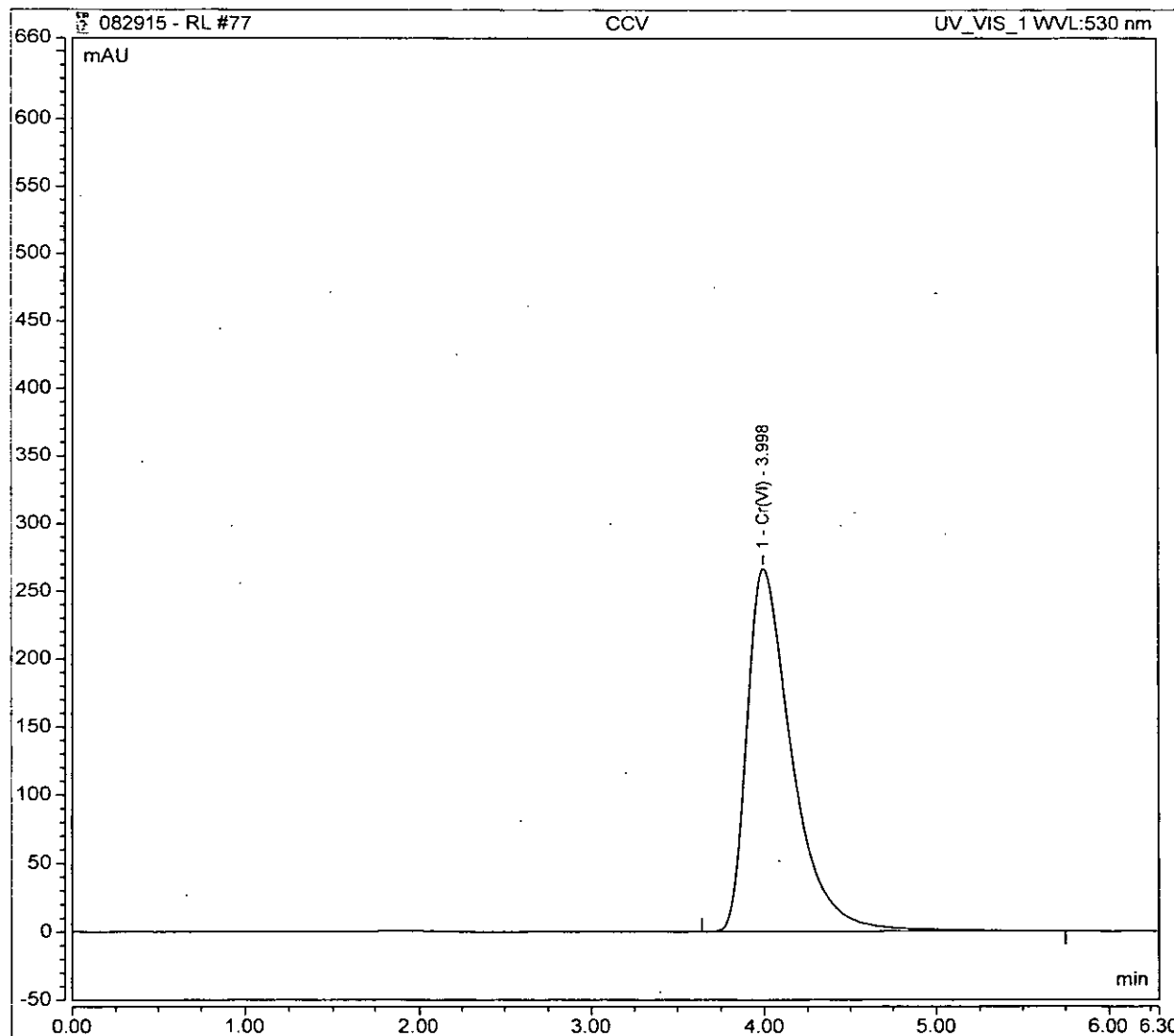
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	3.92	Cr(VI)	BMB	73.837	207.194	0.9586



### Peak Integration Report

Sample Name:	CCV	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	77
Inj. Date / Time:	29-Aug-2015 / 20:32	Sample Comment:	7199/218.6 RL

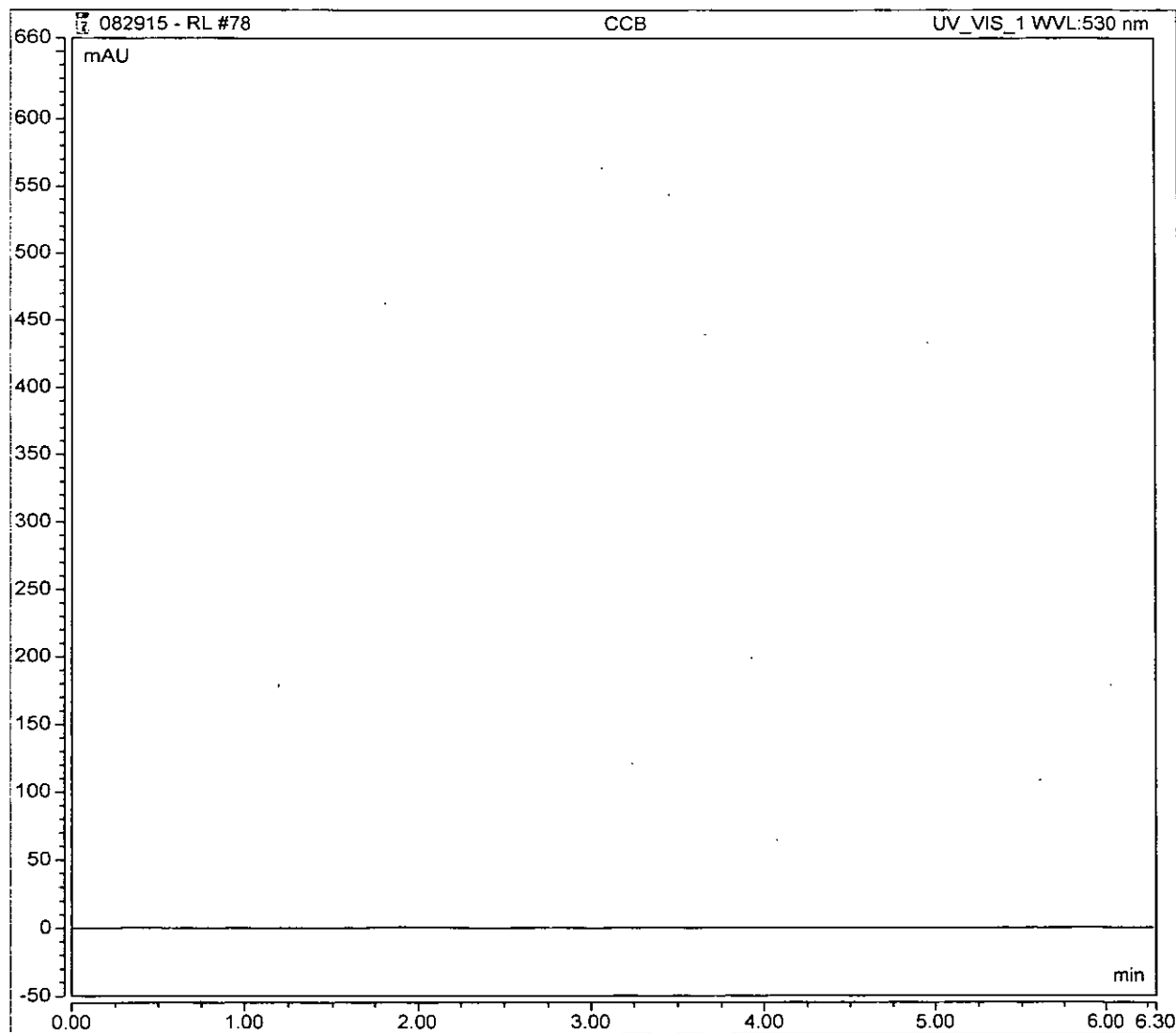
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	4.00	Cr(VI)	BMB	80.264	267.007	0.5210



### Peak Integration Report

Sample Name:	CCB	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	78
Inj. Date / Time:	29-Aug-2015 / 20:41	Sample Comment:	7199/218.6 RL

No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount n.a.
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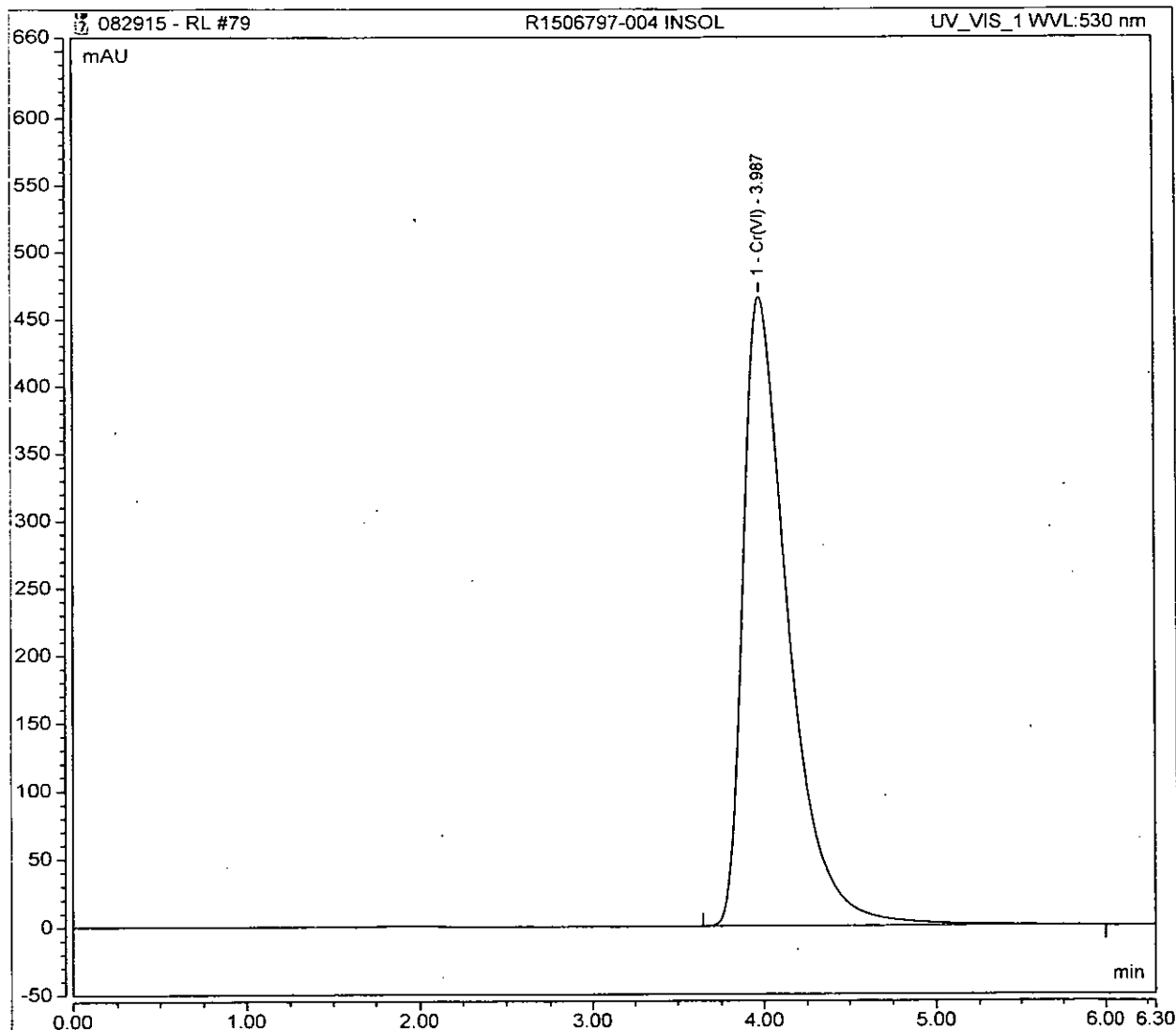




### Peak Integration Report

Sample Name:	R1506797-004 INSOL	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	20.0000
Processing Method:	5-082915 RL	Injection Number:	79
Inj. Date / Time:	29-Aug-2015 / 20:49	Sample Comment:	7199

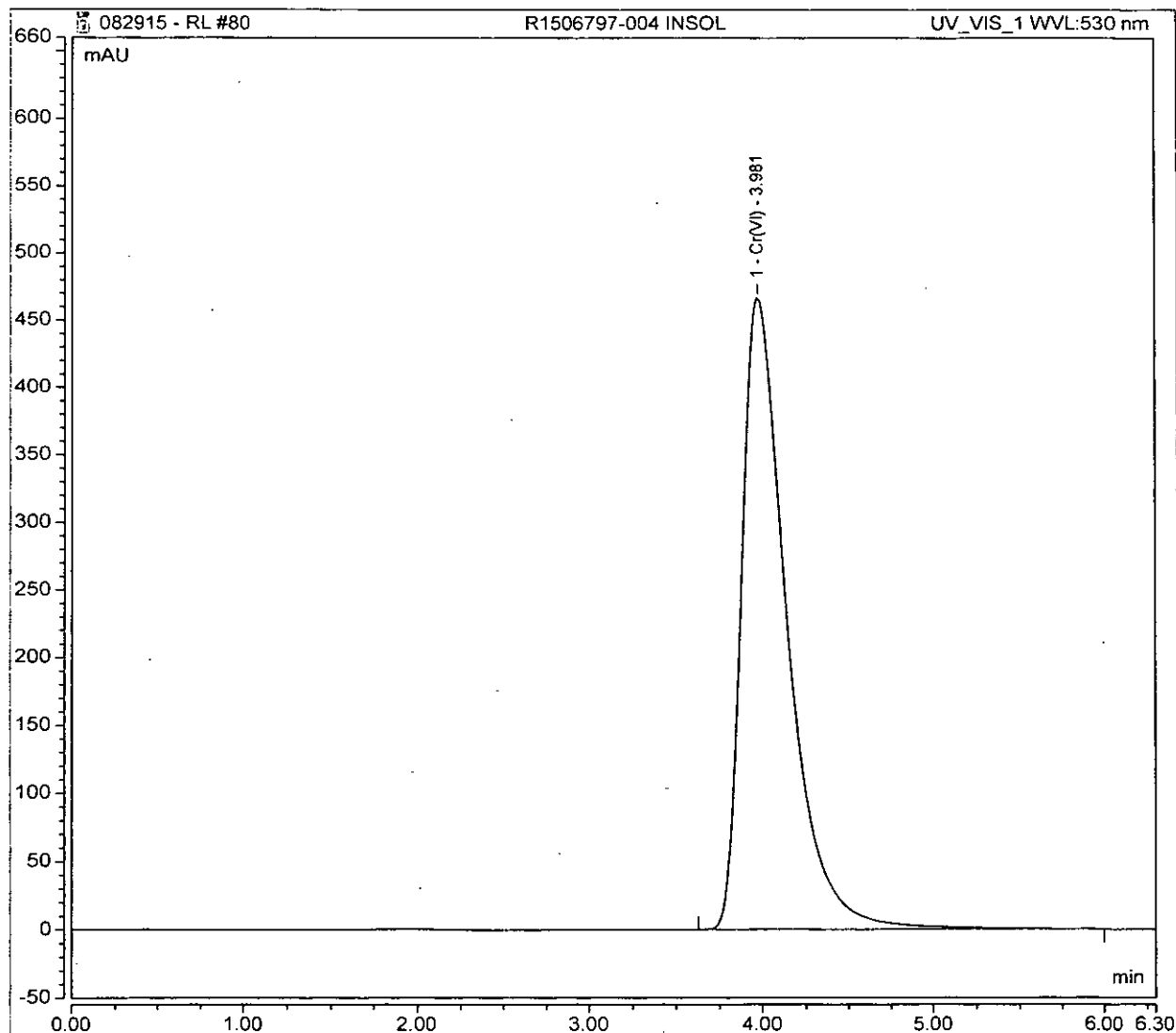
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	3.99	Cr(VI)	BMB	142.607	466.392	18.5125



### Peak Integration Report

Sample Name:	R1506797-004 INSOL	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	20.0000
Processing Method:	5-082915 RL	Injection Number:	80
Inj. Date / Time:	29-Aug-2015 / 20:58	Sample Comment:	7199 REPLICATE

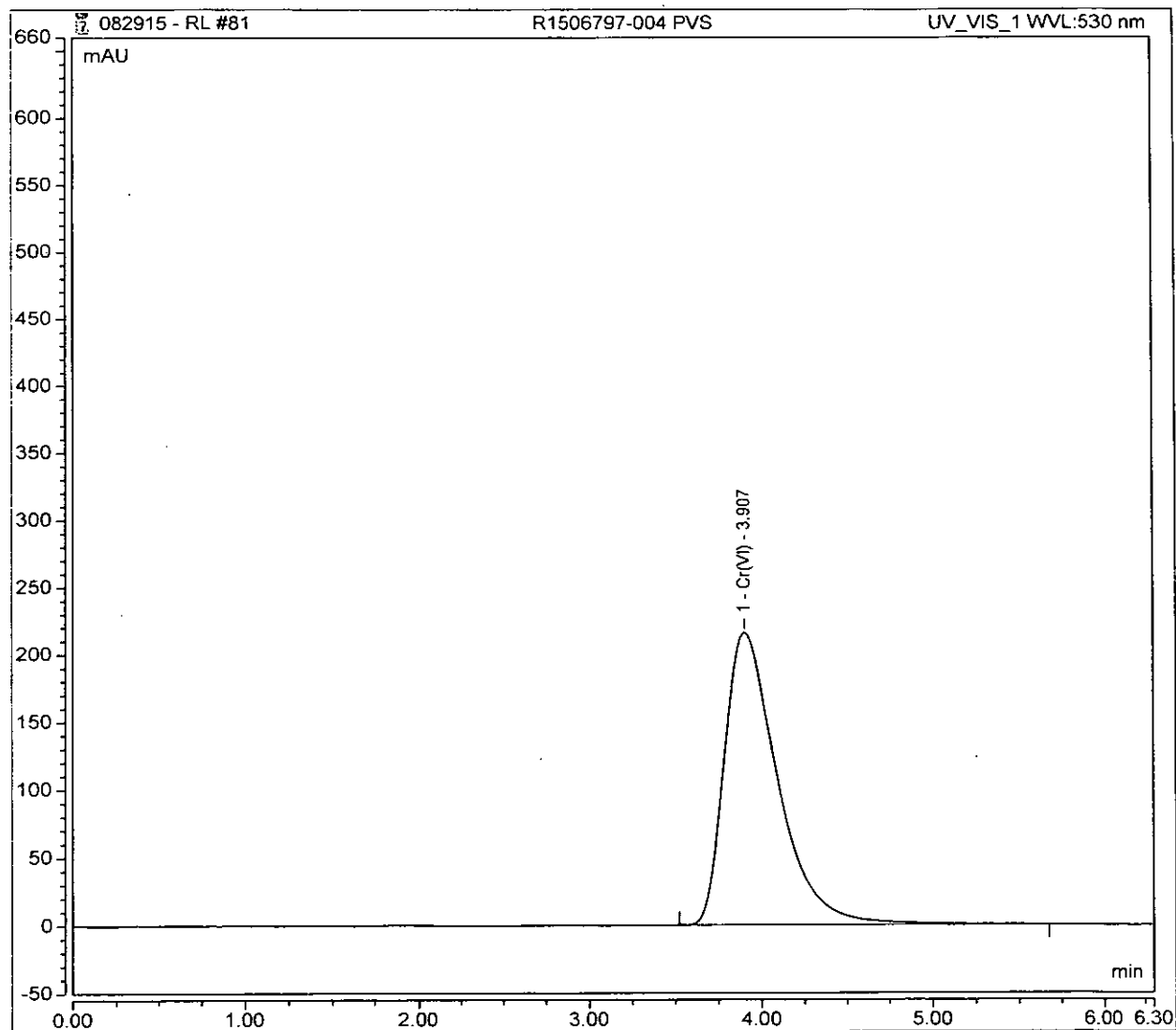
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	3.98	Cr(VI)	BMB	142.445	466.748	18.4915



### Peak Integration Report

Sample Name:	R1506797-004 PVS	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	2.0000
Processing Method:	5-082915 RL	Injection Number:	81
Inj. Date / Time:	29-Aug-2015 / 21:05	Sample Comment:	7199

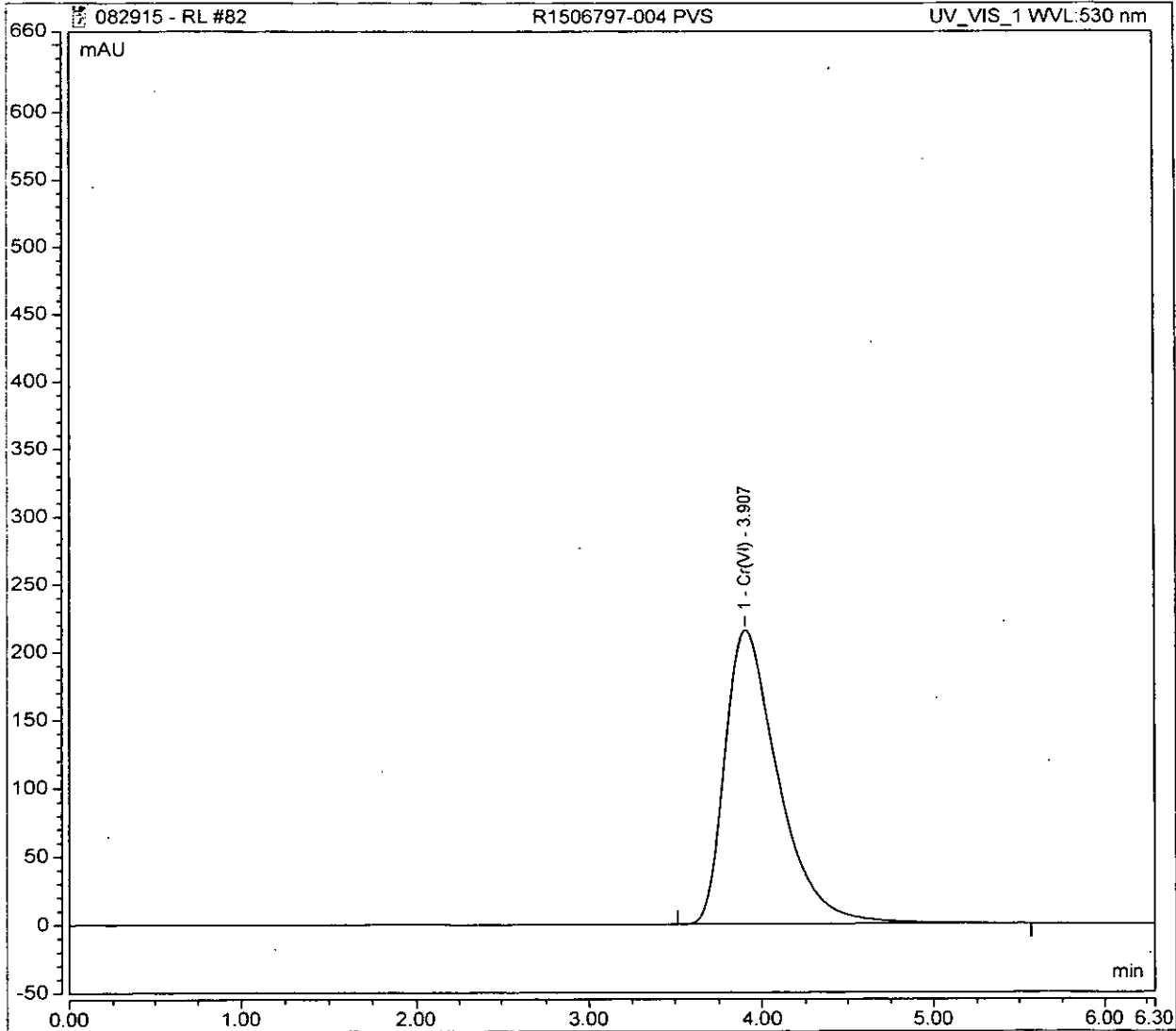
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	3.91	Cr(VI)	BMB	77.542	216.412	1.0067



### Peak Integration Report

Sample Name:	R1506797-004 PVS	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	2.0000
Processing Method:	5-082915 RL	Injection Number:	82
Inj. Date / Time:	29-Aug-2015 / 21:13	Sample Comment:	7199 REPLICATE

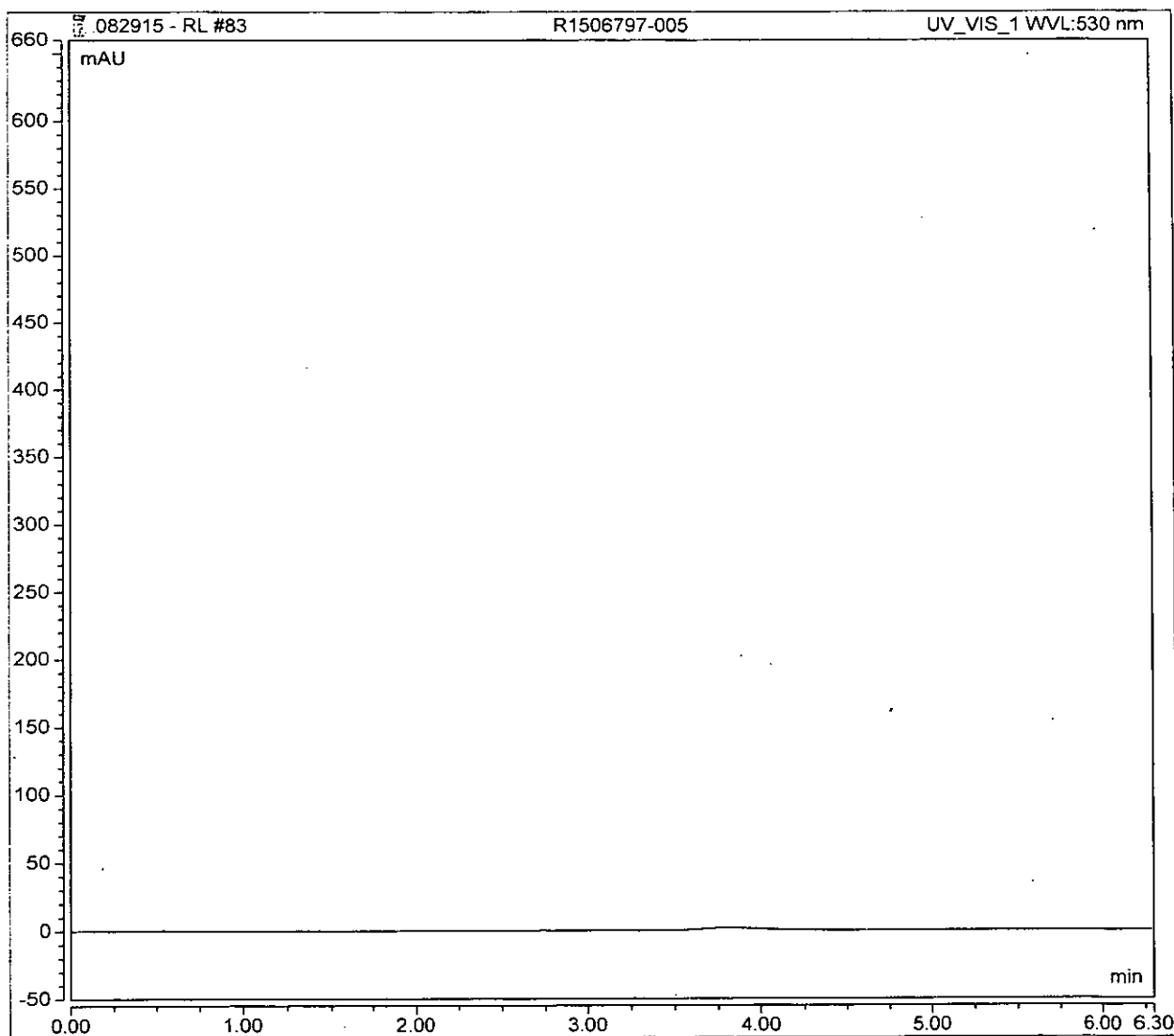
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	3.91	Cr(VI)	BMB	77.444	216.280	1.0054



### Peak Integration Report

Sample Name:	R1506797-005	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	83
Inj. Date / Time:	29-Aug-2015 / 21:20	Sample Comment:	7199

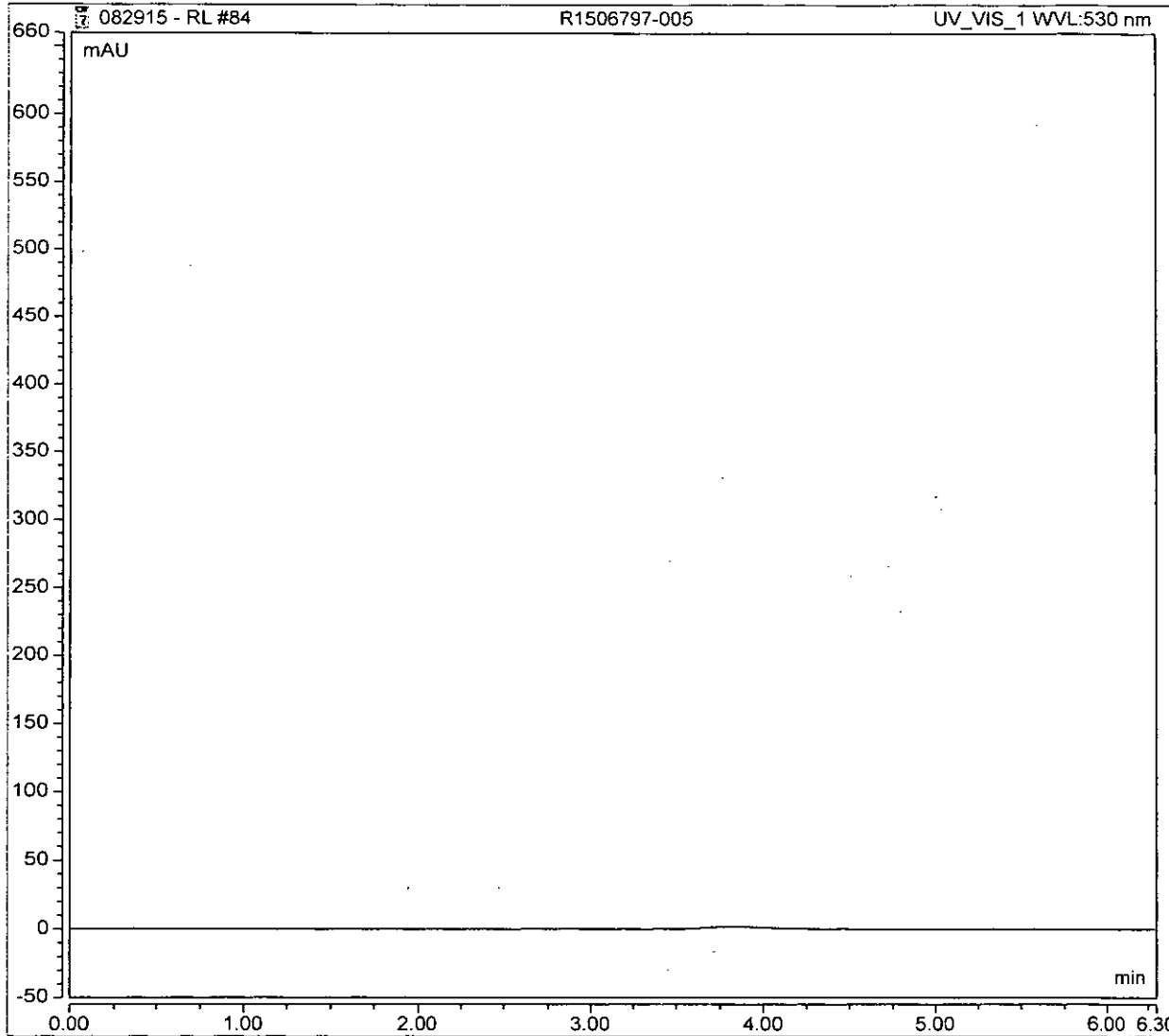
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount n.a.
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### Peak Integration Report

Sample Name:	R1506797-005	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	84
Inj. Date / Time:	29-Aug-2015 / 21:29	Sample Comment:	7199 REPLICATE

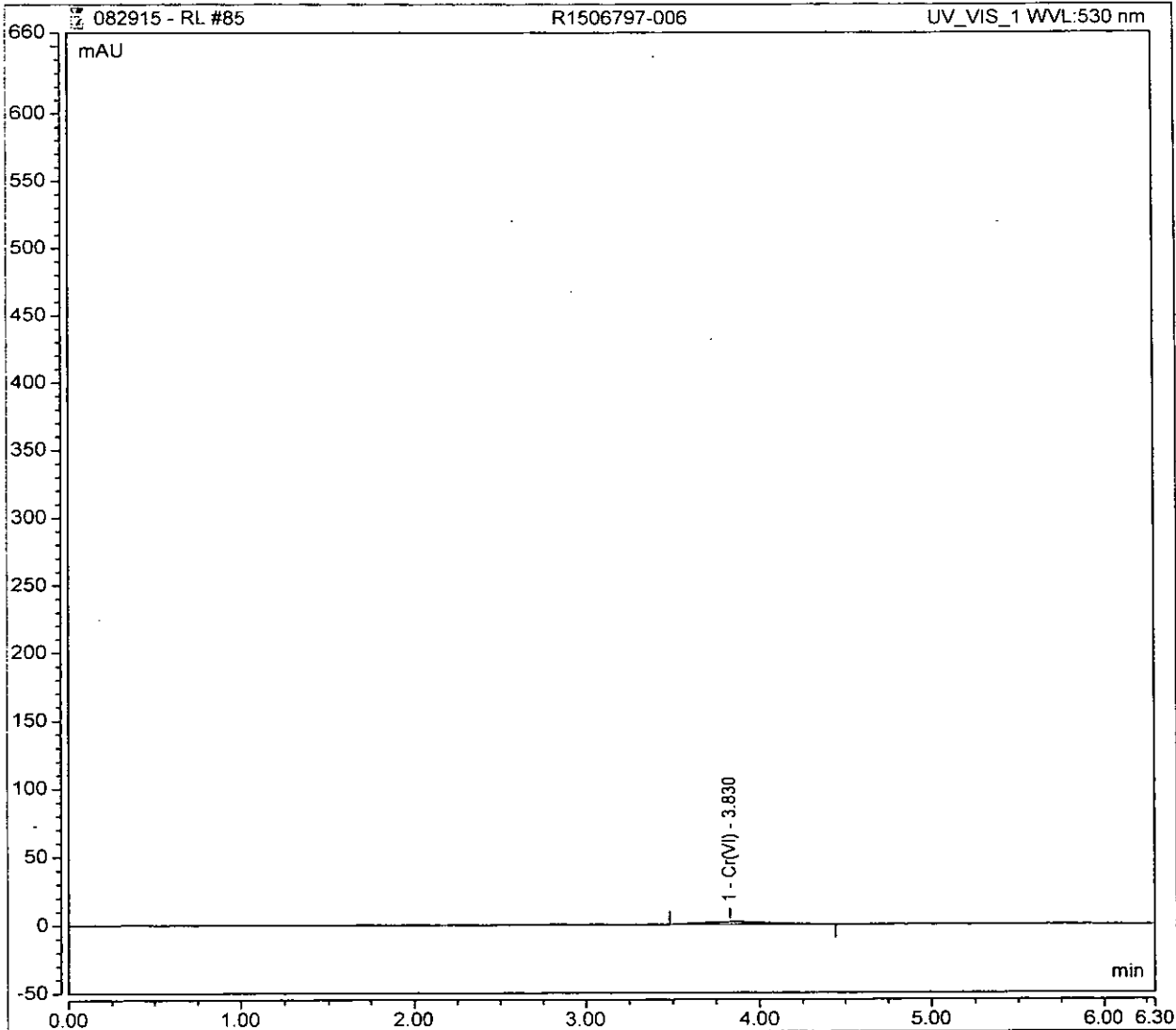
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount n.a.
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### Peak Integration Report

Sample Name:	R1506797-006	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	85
Inj. Date / Time:	29-Aug-2015 / 21:36	Sample Comment:	7199

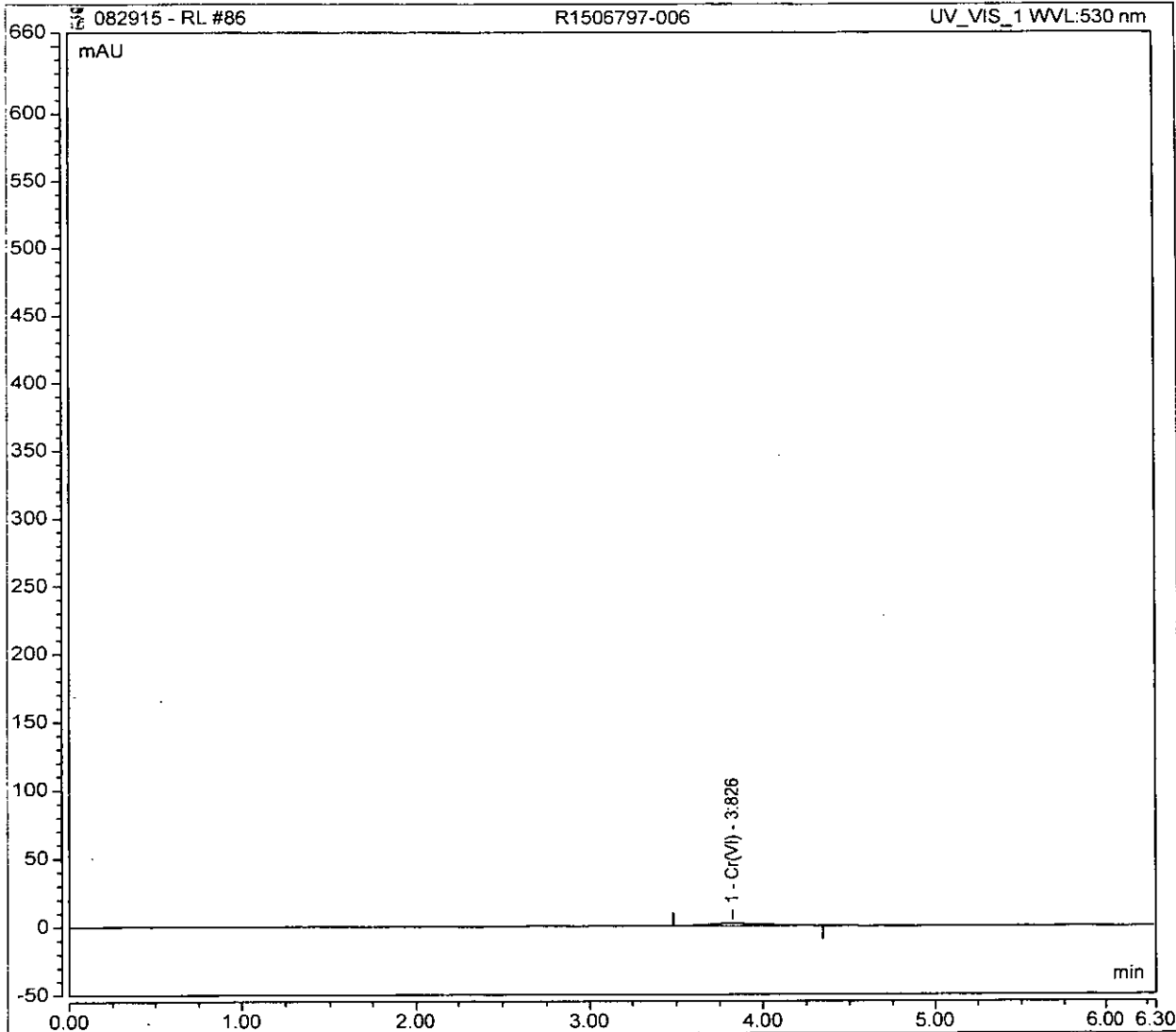
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	3.83	Cr(VI)	BMB	0.728	1.785	0.0048



### Peak Integration Report

Sample Name:	R1506797-006	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	86
Inj. Date / Time:	29-Aug-2015 / 21:45	Sample Comment:	7199 REPLICATE

No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	3.83	Cr(VI)	BMB	0.683	1.739	0.0045

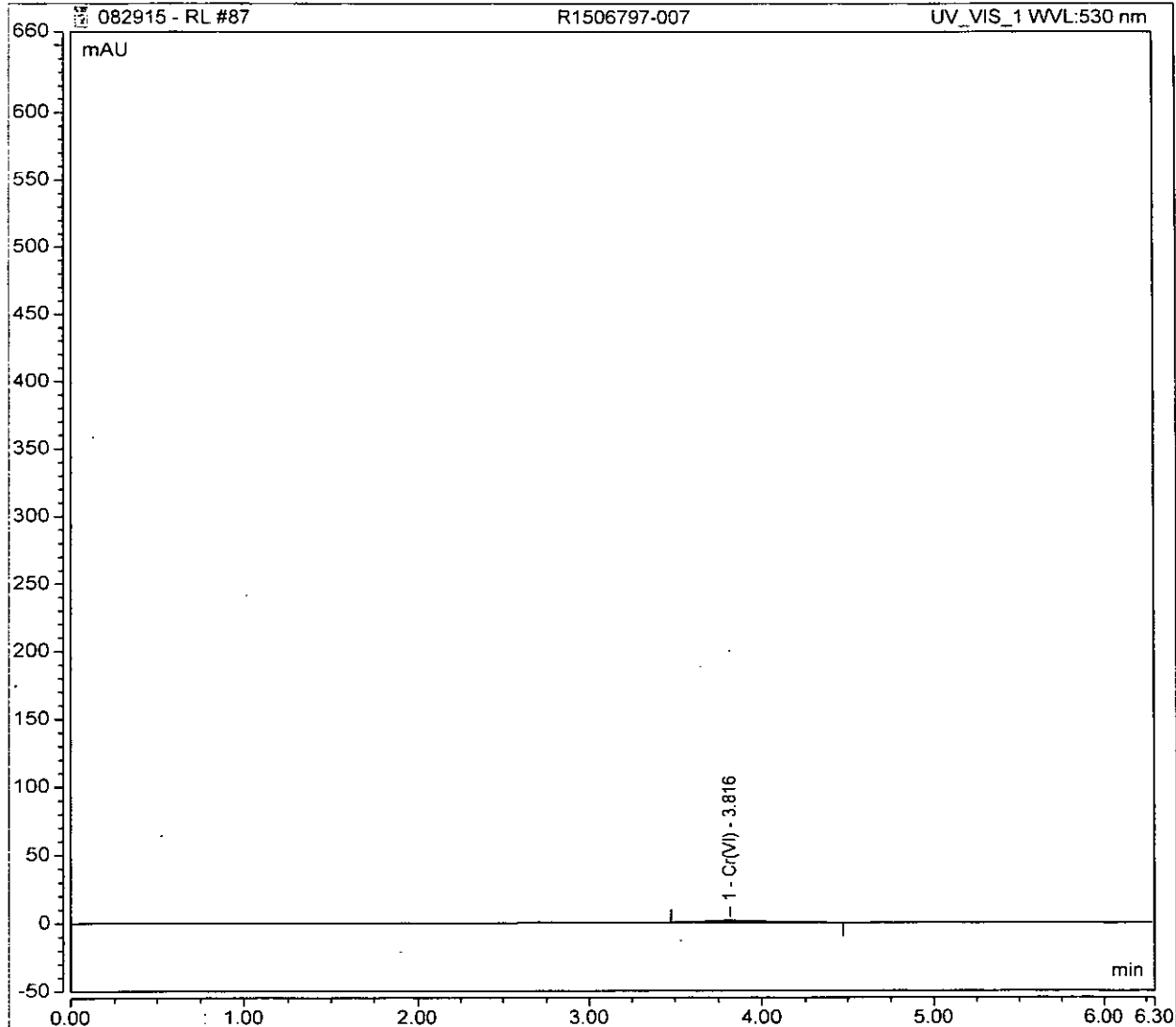




### Peak Integration Report

Sample Name:	R1506797-007	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	87
Inj. Date / Time:	29-Aug-2015 / 21:52	Sample Comment:	7199

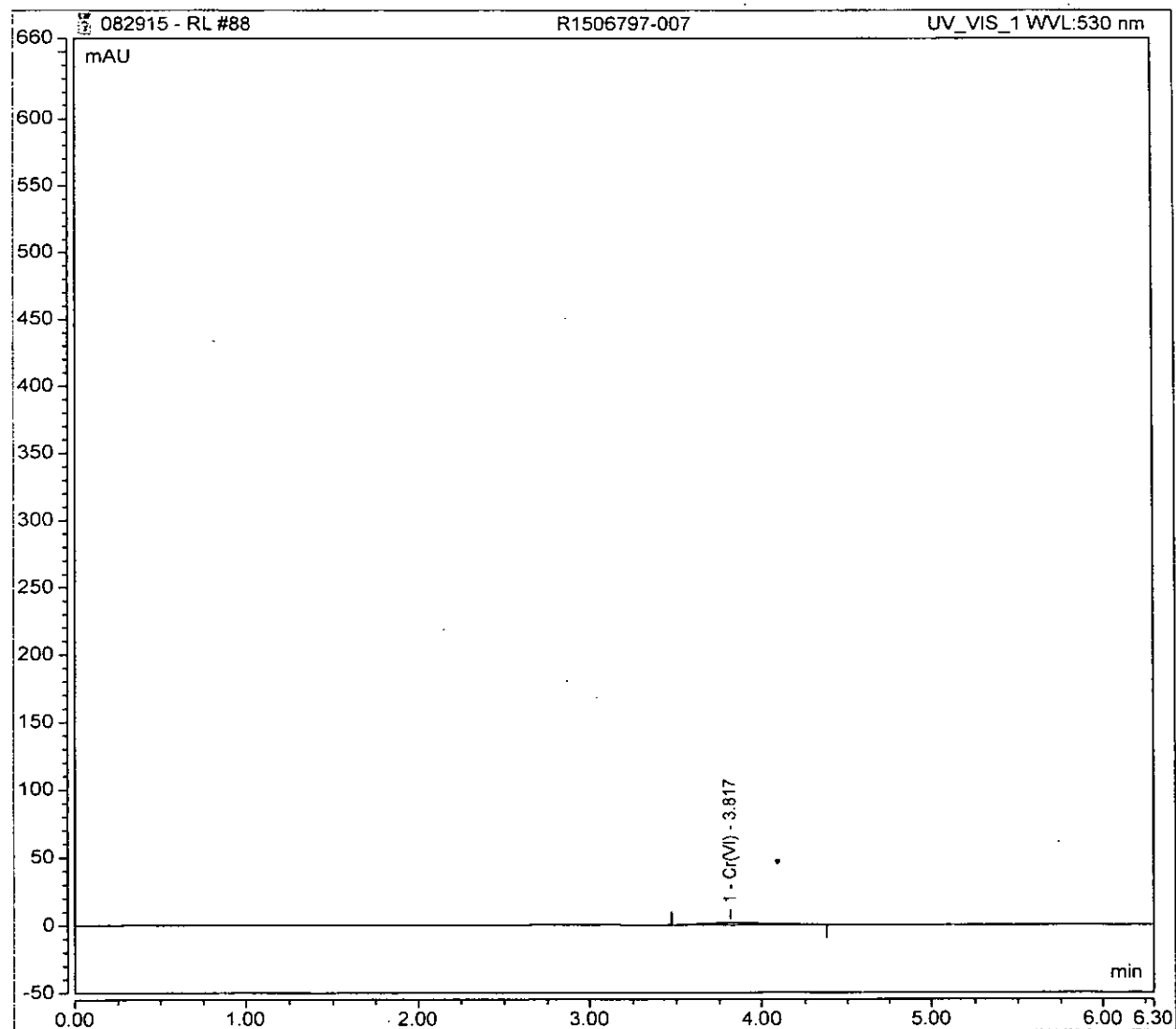
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	3.82	Cr(VI)	BMB	0.657	1.586	0.0044



### Peak Integration Report

Sample Name:	R1506797-007	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	88
Inj. Date / Time:	29-Aug-2015 / 22:00	Sample Comment:	7199 REPLICATE

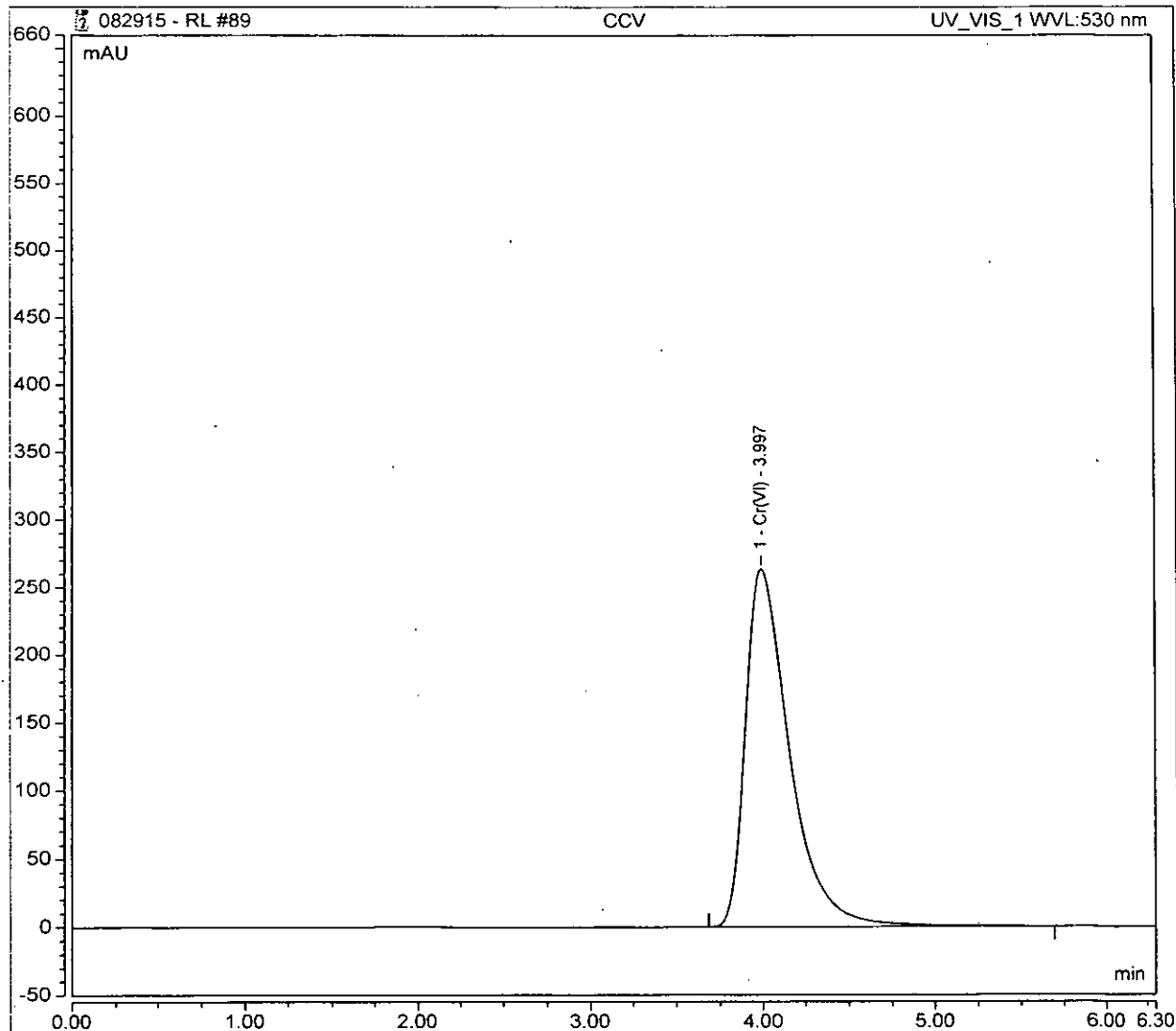
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	3.82	Cr(VI)	BMB	0.629	1.558	0.0042



### Peak Integration Report

Sample Name:	CCV	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	89
Inj. Date / Time:	29-Aug-2015 / 22:07	Sample Comment:	7199/218.6 RL

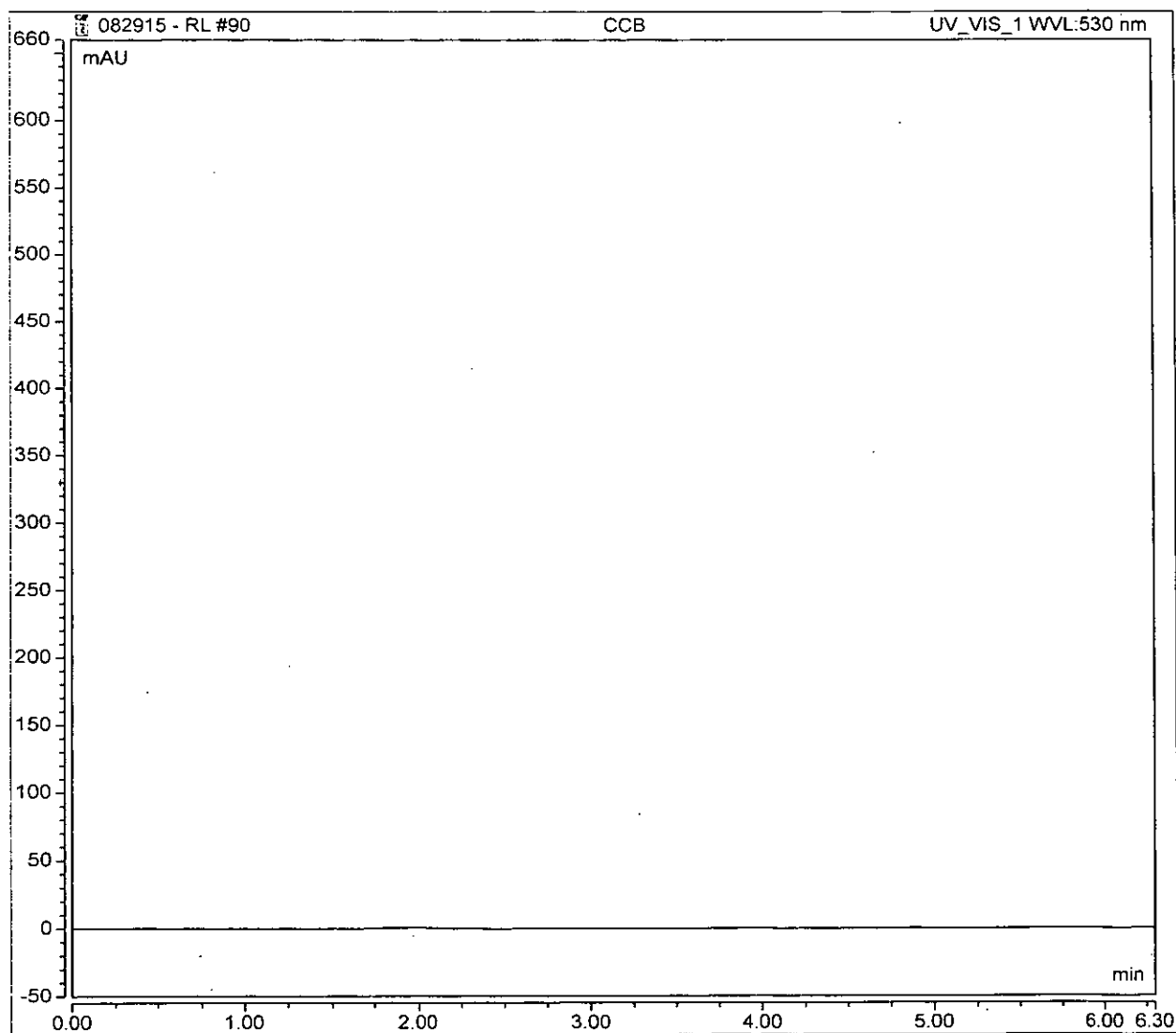
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	4.00	Cr(VI)	BMB	79.086	263.618	0.5134



### Peak Integration Report

Sample Name:	CCB	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	90
Inj. Date / Time:	29-Aug-2015 / 22:16	Sample Comment:	7199/218.6 RL

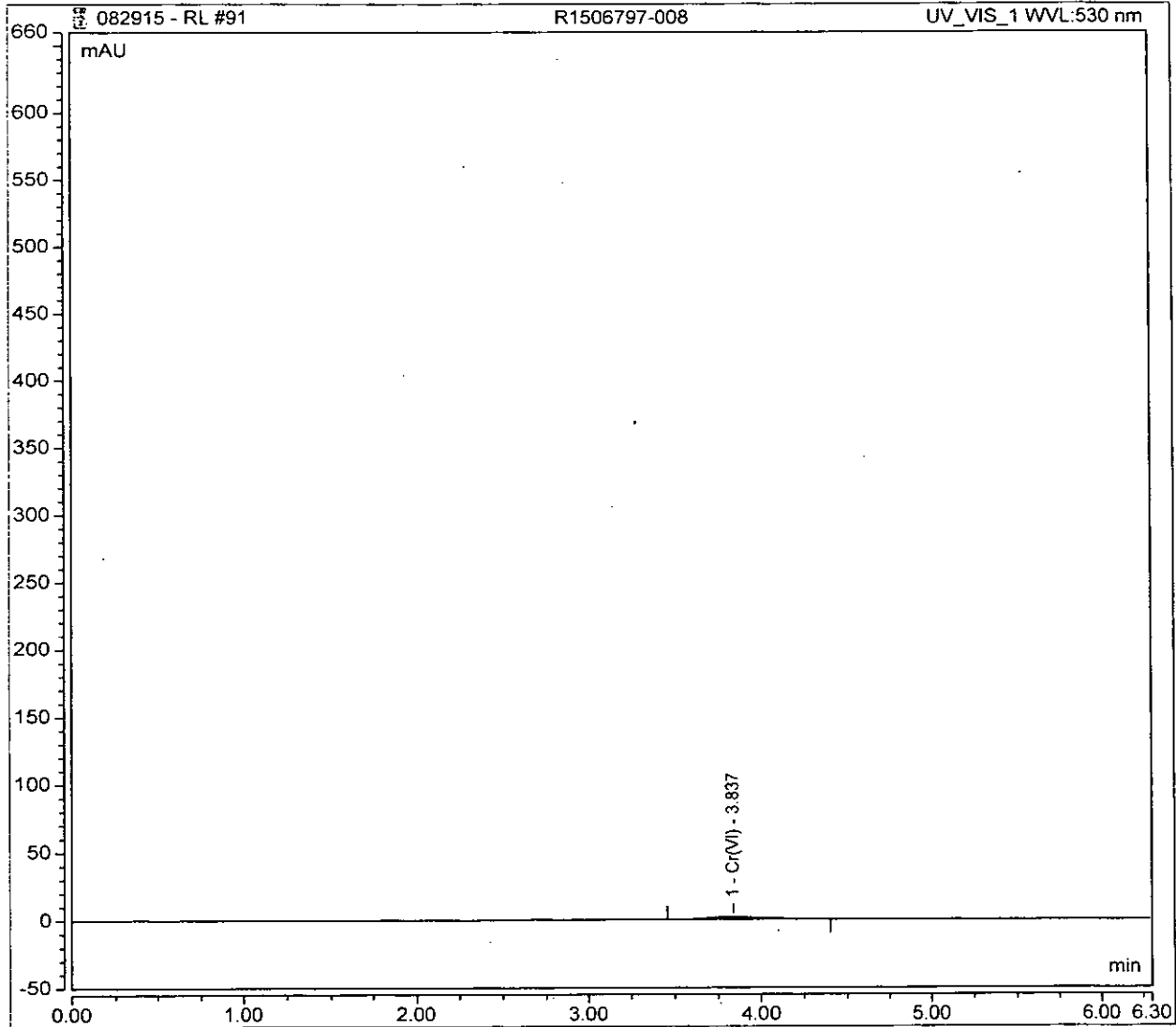
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount n.a.
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### Peak Integration Report

Sample Name:	R1506797-008	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	91
Inj. Date / Time:	29-Aug-2015 / 22:25	Sample Comment:	7199

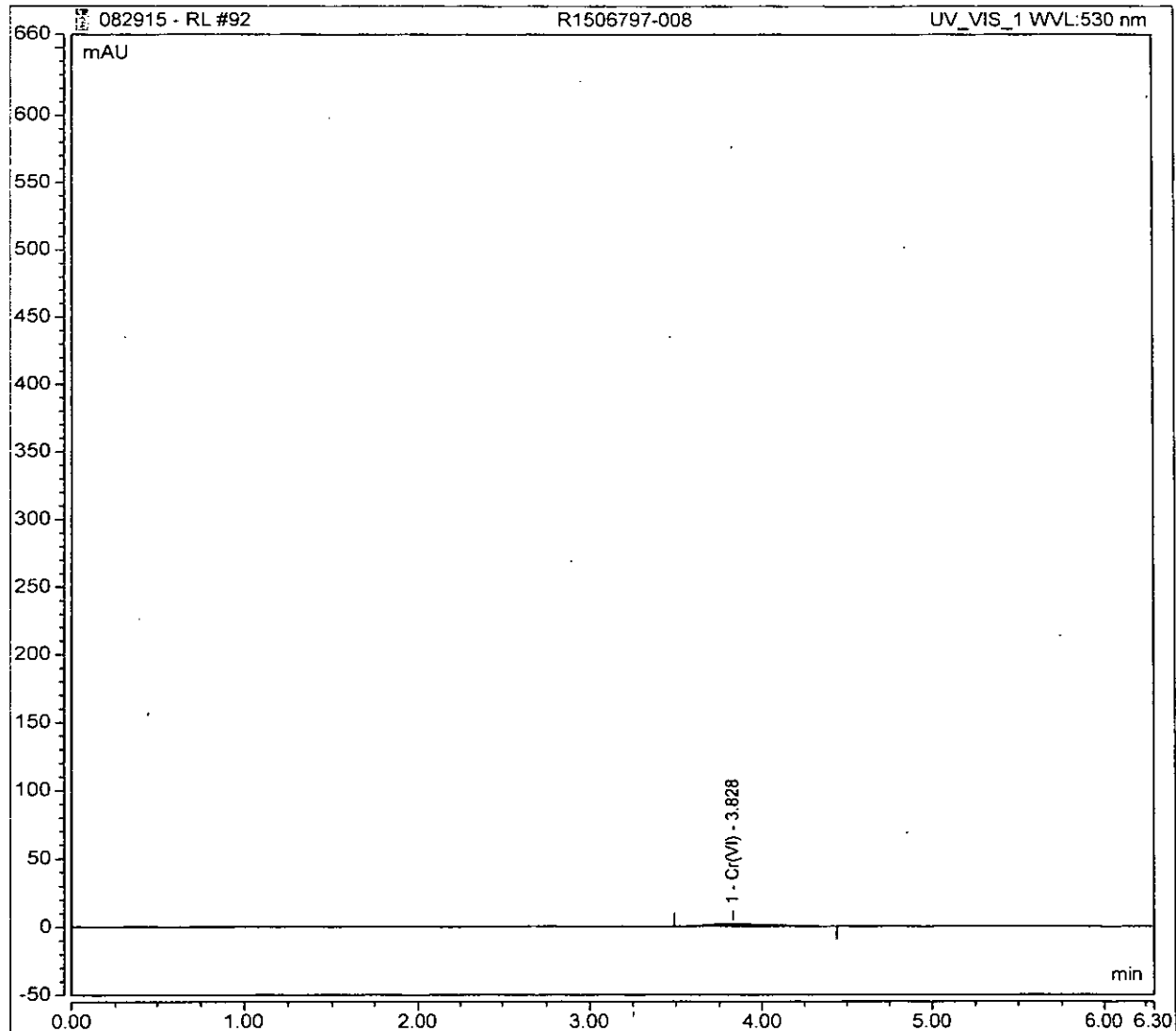
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	3.84	Cr(VI)	BMB	0.731	1.819	0.0048



### Peak Integration Report

Sample Name:	R1506797-008	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	92
Inj. Date / Time:	29-Aug-2015 / 22:34	Sample Comment:	7199 REPLICATE

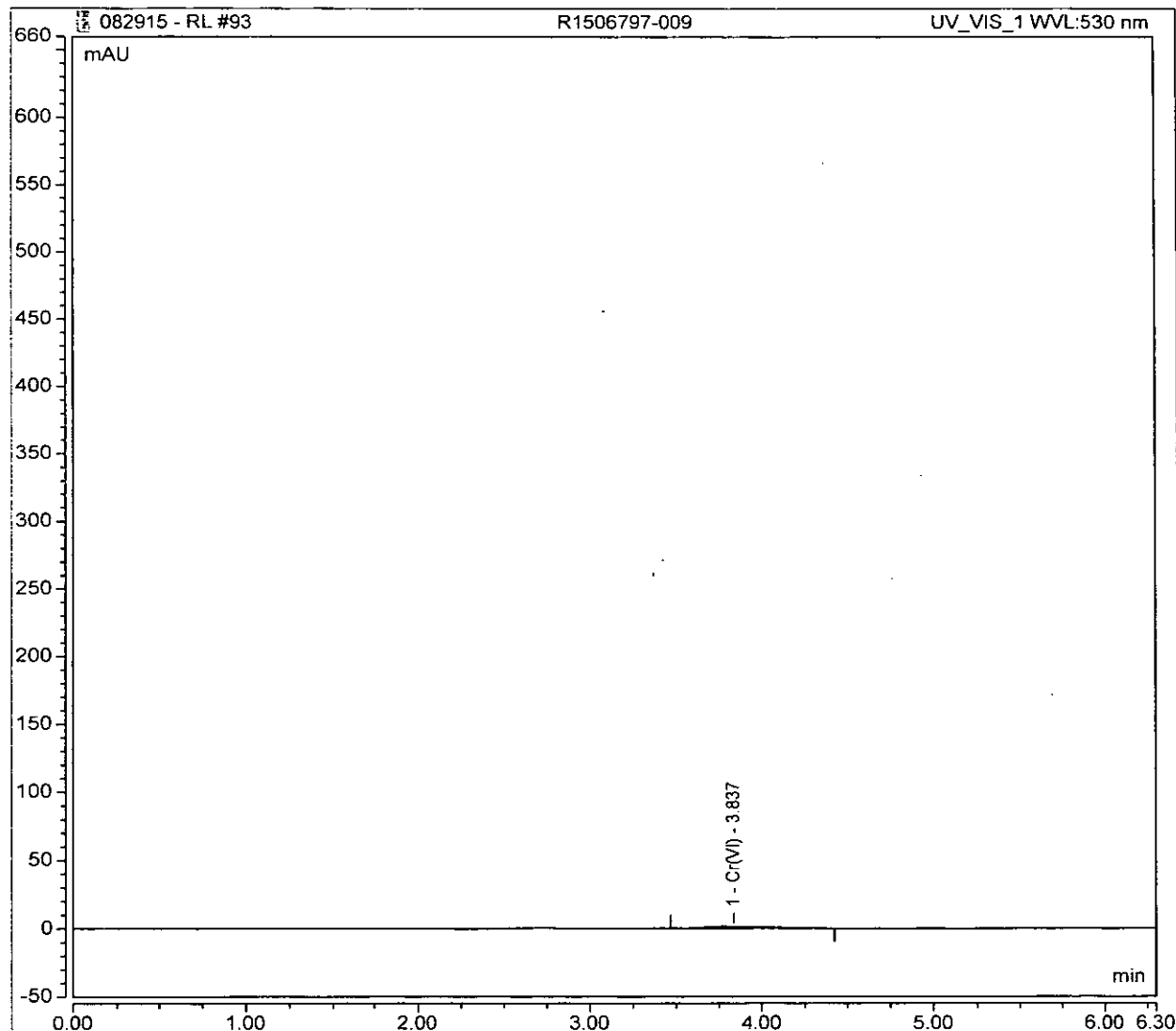
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	3.83	Cr(VI)	BMB	0.747	1.821	0.0049



### Peak Integration Report

Sample Name:	R1506797-009	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	93
Inj. Date / Time:	29-Aug-2015 / 22:41	Sample Comment:	7199

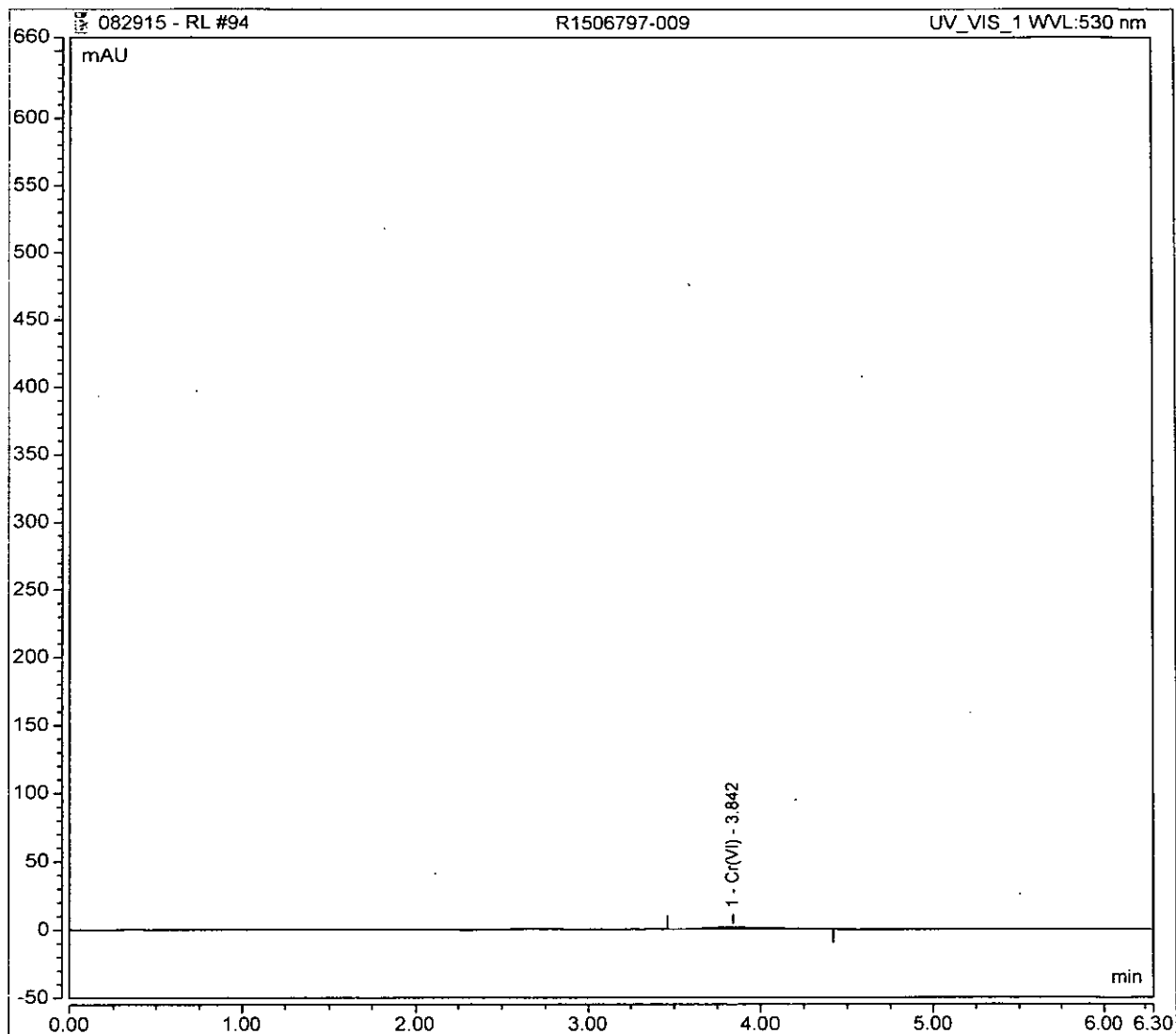
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	3.84	Cr(VI)	BMB	0.566	1.430	0.0038



### Peak Integration Report

Sample Name:	R1506797-009	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	94
Inj. Date / Time:	29-Aug-2015 / 22:50	Sample Comment:	7199 REPLICATE

No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	3.84	Cr(VI)	BMB	0.568	1.425	0.0038

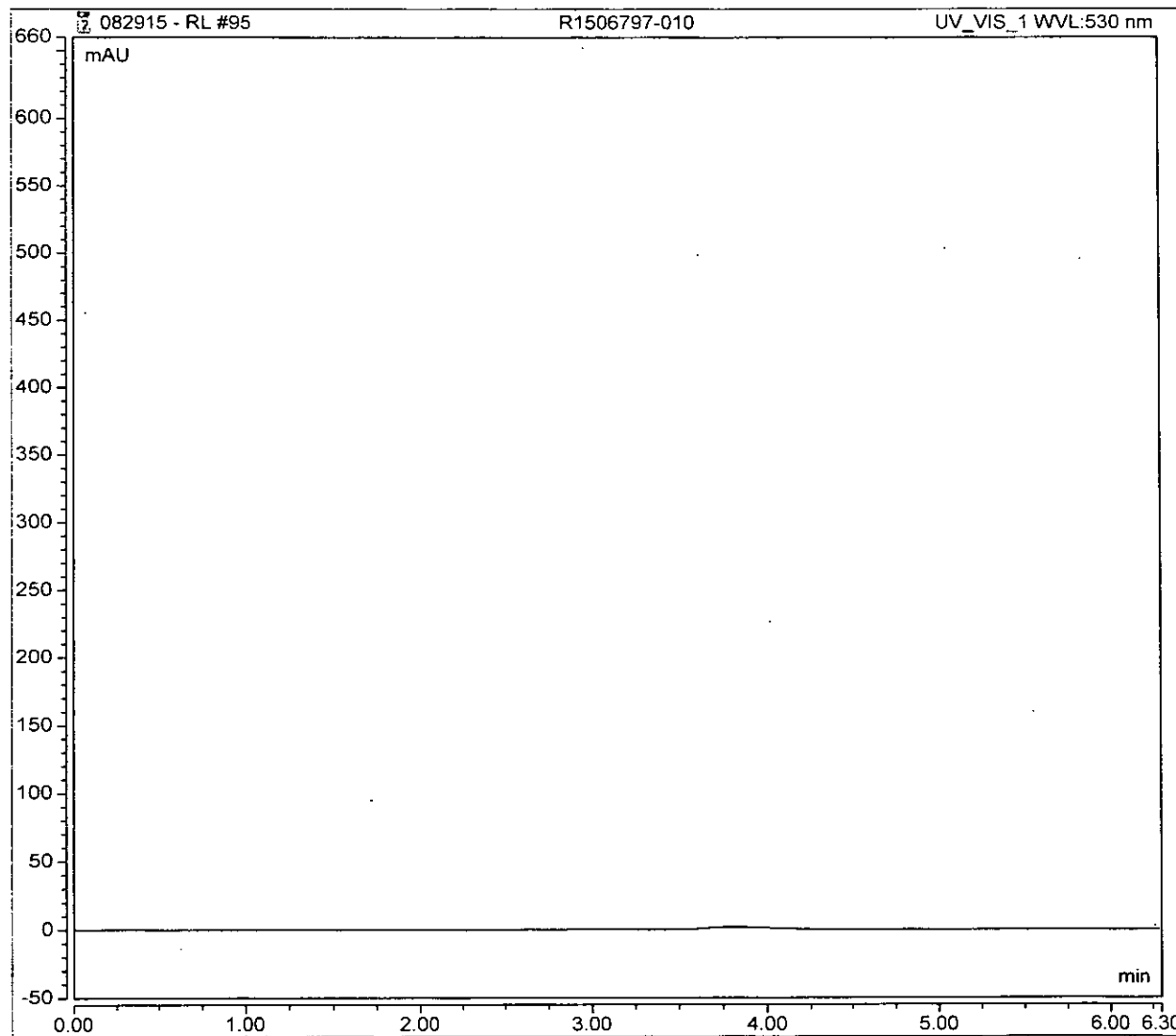




### Peak Integration Report

Sample Name:	R1506797-010	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	95
Inj. Date / Time:	29-Aug-2015 / 22:57	Sample Comment:	7199

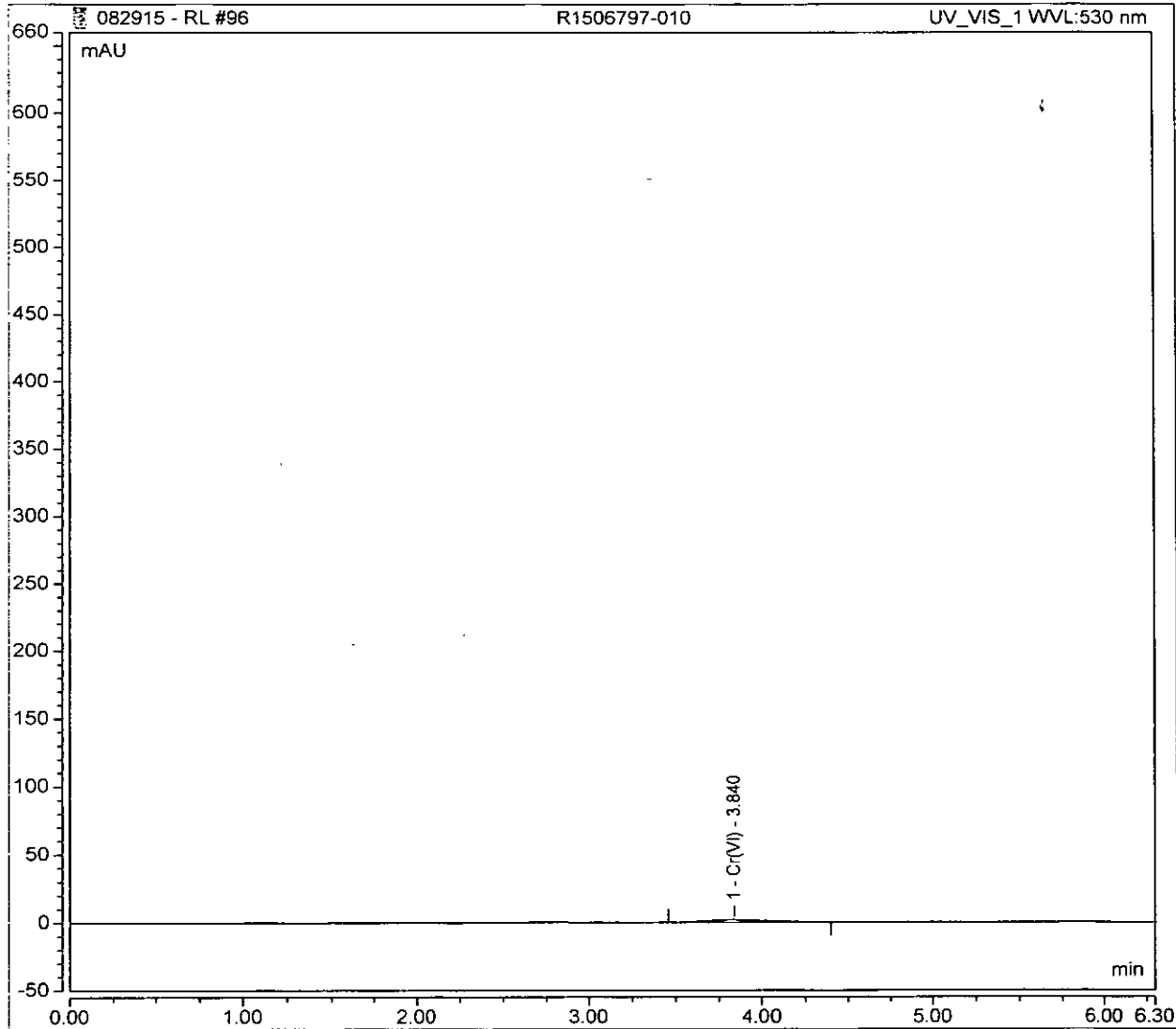
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount n.a.
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### Peak Integration Report

Sample Name:	R1506797-010	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	96
Inj. Date / Time:	29-Aug-2015 / 23:05	Sample Comment:	7199 REPLICATE

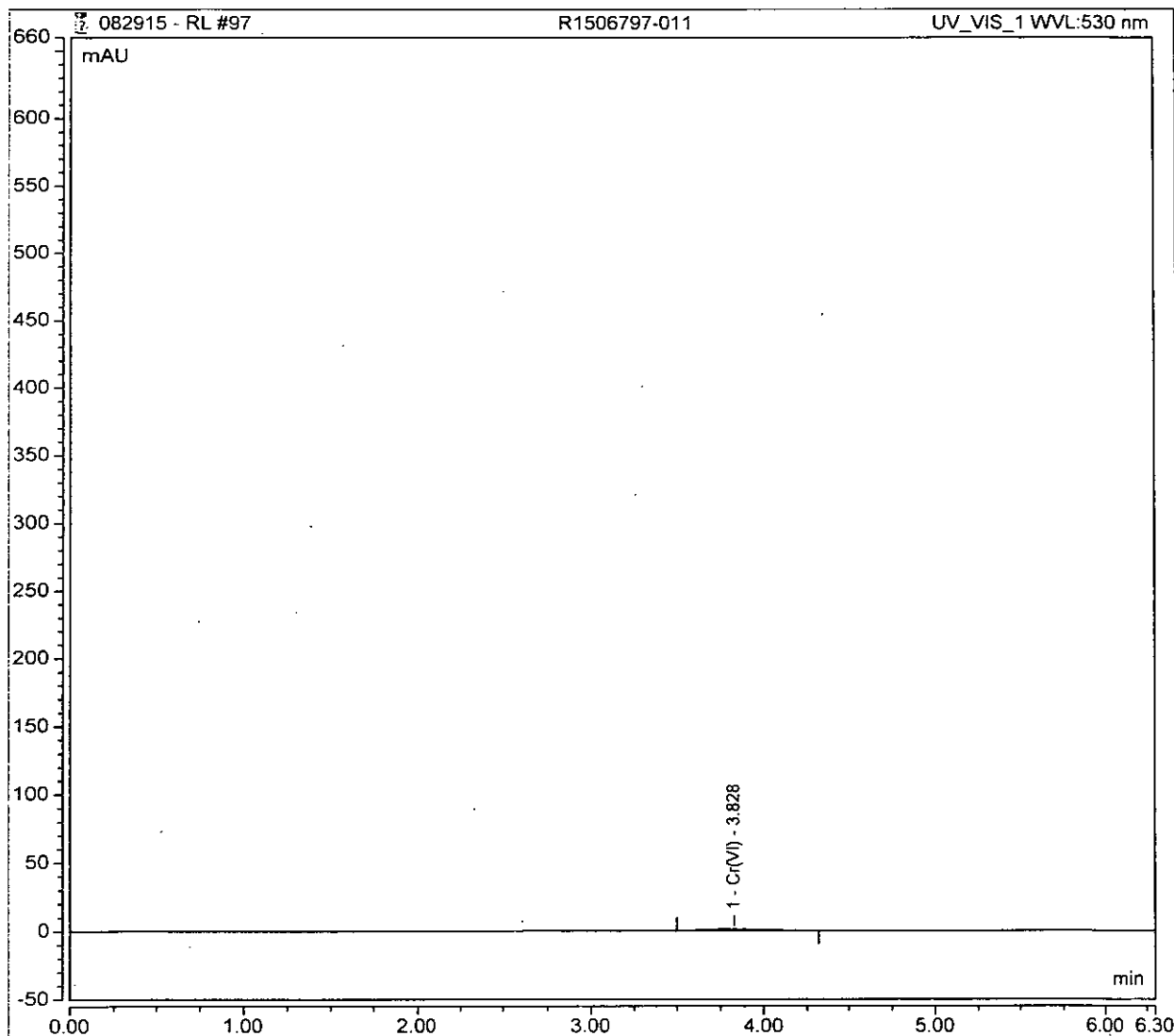
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	3.84	Cr(VI)	BMB	0.737	1.850	0.0049



### Peak Integration Report

Sample Name:	R1506797-011	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	97
Inj. Date / Time:	29-Aug-2015 / 23:13	Sample Comment:	7199

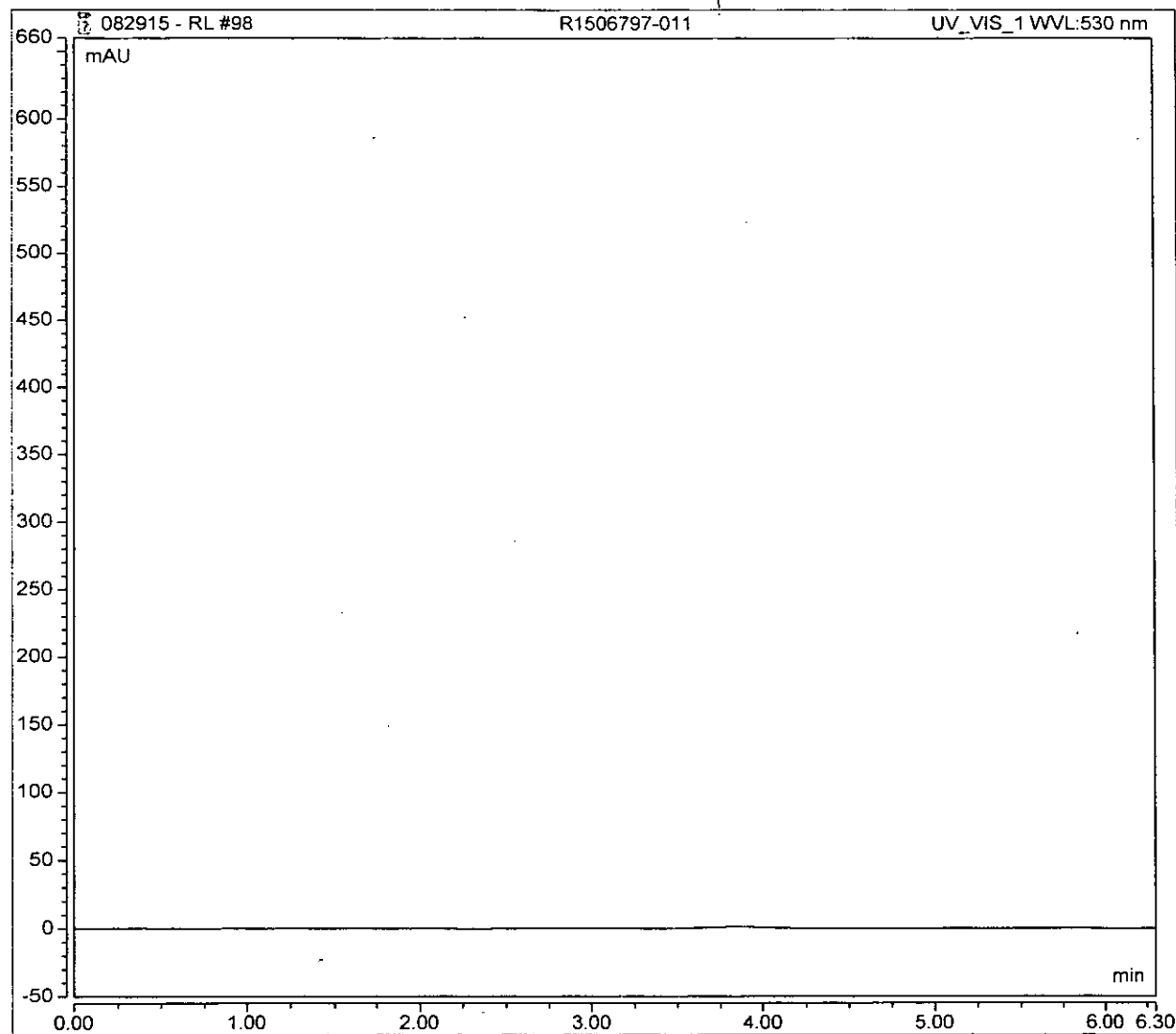
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	3.83	Cr(VI)	BMB	0.436	1.124	0.0029



### Peak Integration Report

Sample Name:	R1506797-011	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	98
Inj. Date / Time:	29-Aug-2015 / 23:21	Sample Comment:	7199 REPLICATE

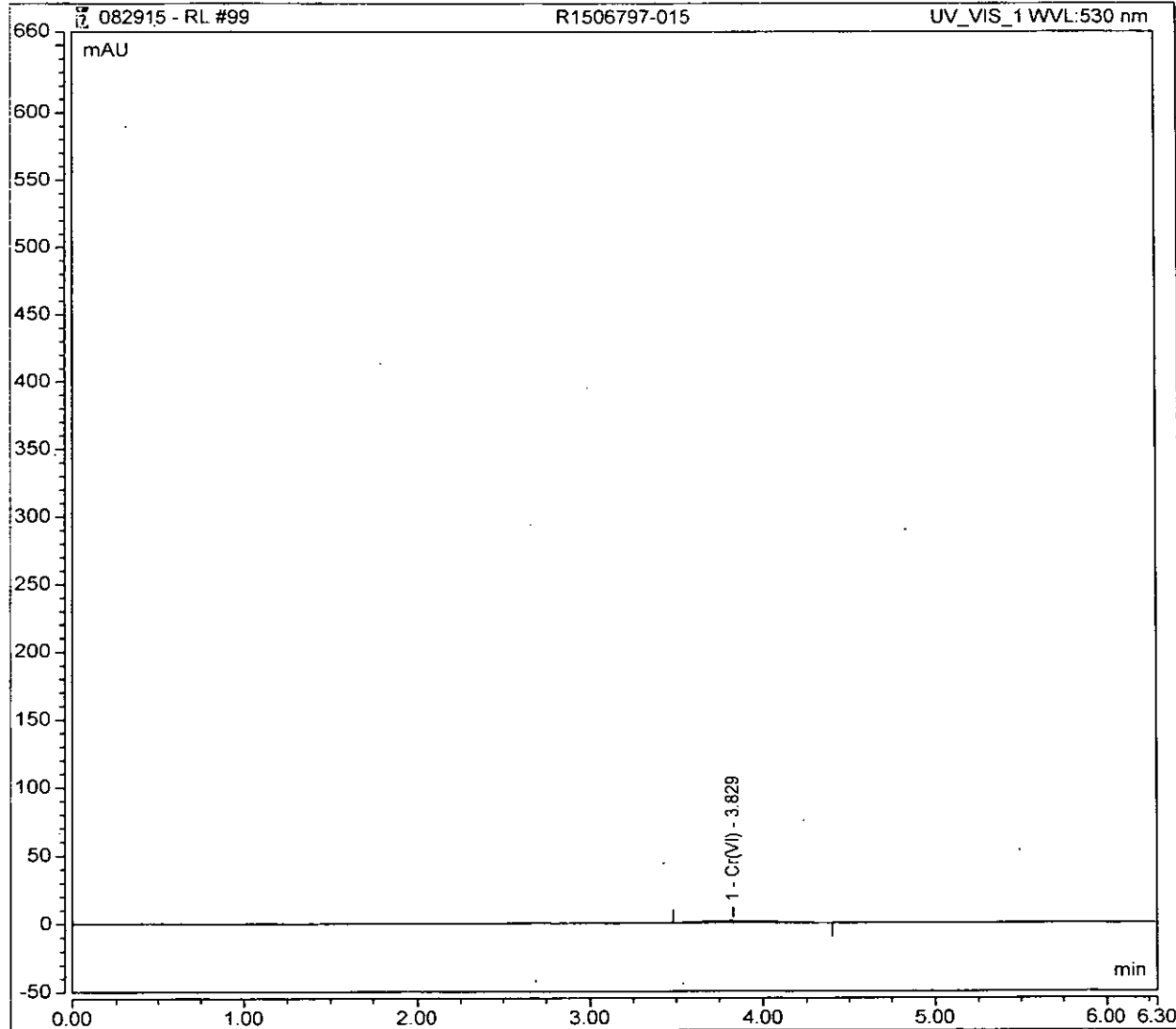
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount n.a.
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### Peak Integration Report

Sample Name:	R1506797-015	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	99
Inj. Date / Time:	29-Aug-2015 / 23:28	Sample Comment:	7199

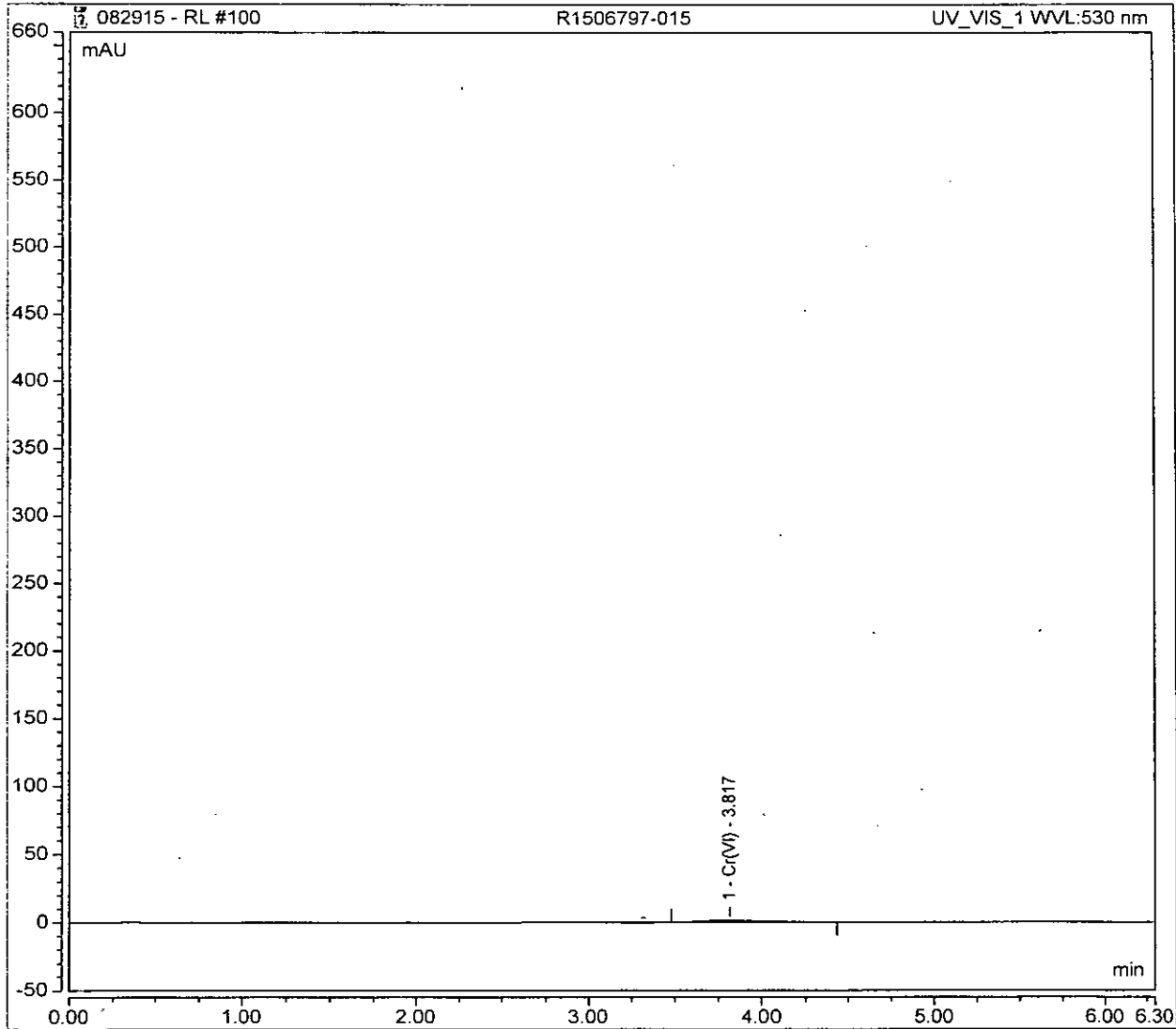
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	3.83	Cr(VI)	BMB	0.569	1.387	0.0038



### Peak Integration Report

Sample Name:	R1506797-015	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	100
Inj. Date / Time:	29-Aug-2015 / 23:37	Sample Comment:	7199 REPLICATE

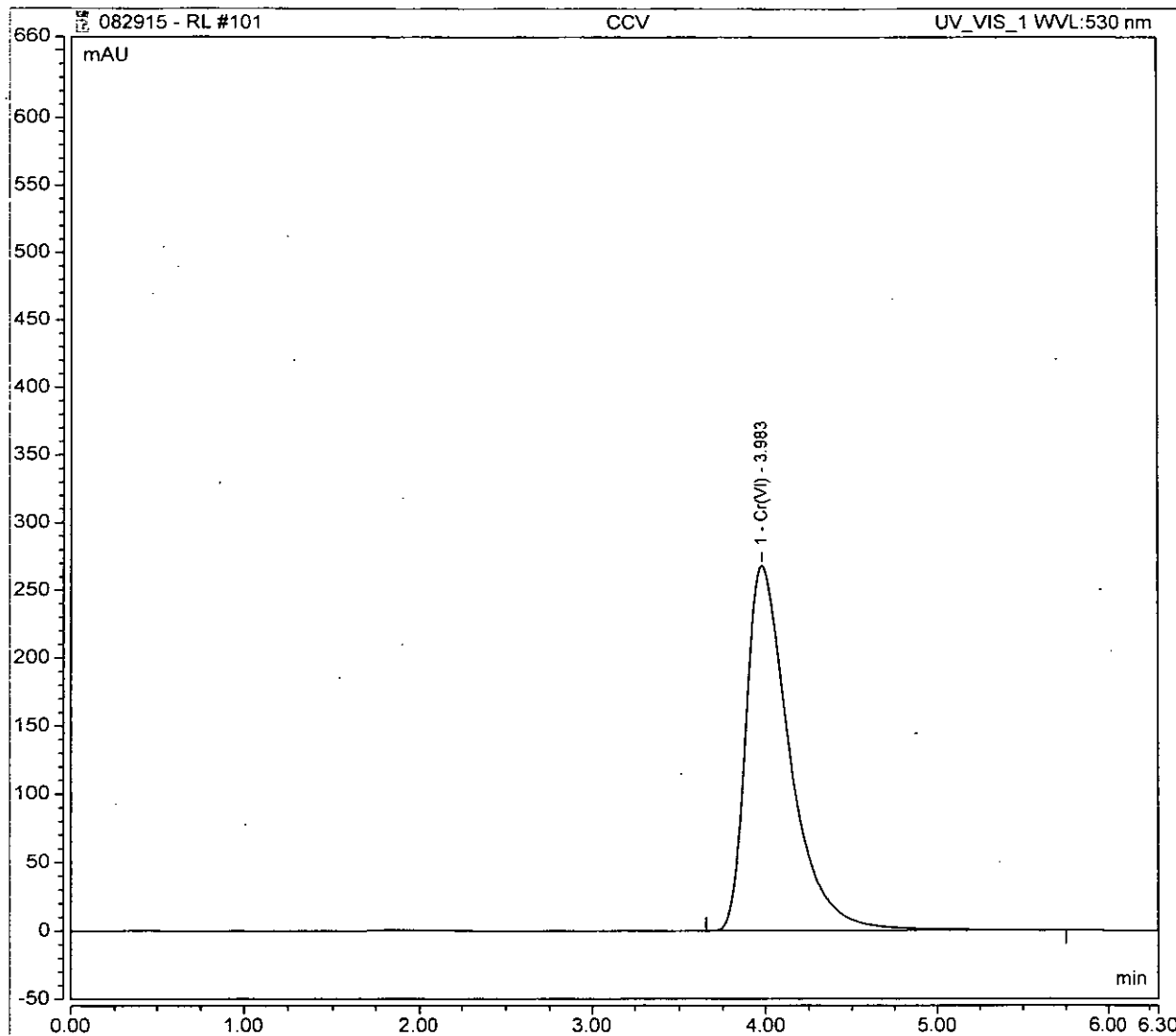
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	3.82	Cr(VI)	BMB	0.568	1.364	0.0038



### Peak Integration Report

Sample Name:	CCV	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	101
Inj. Date / Time:	29-Aug-2015 / 23:44	Sample Comment:	7199/218.6 RL

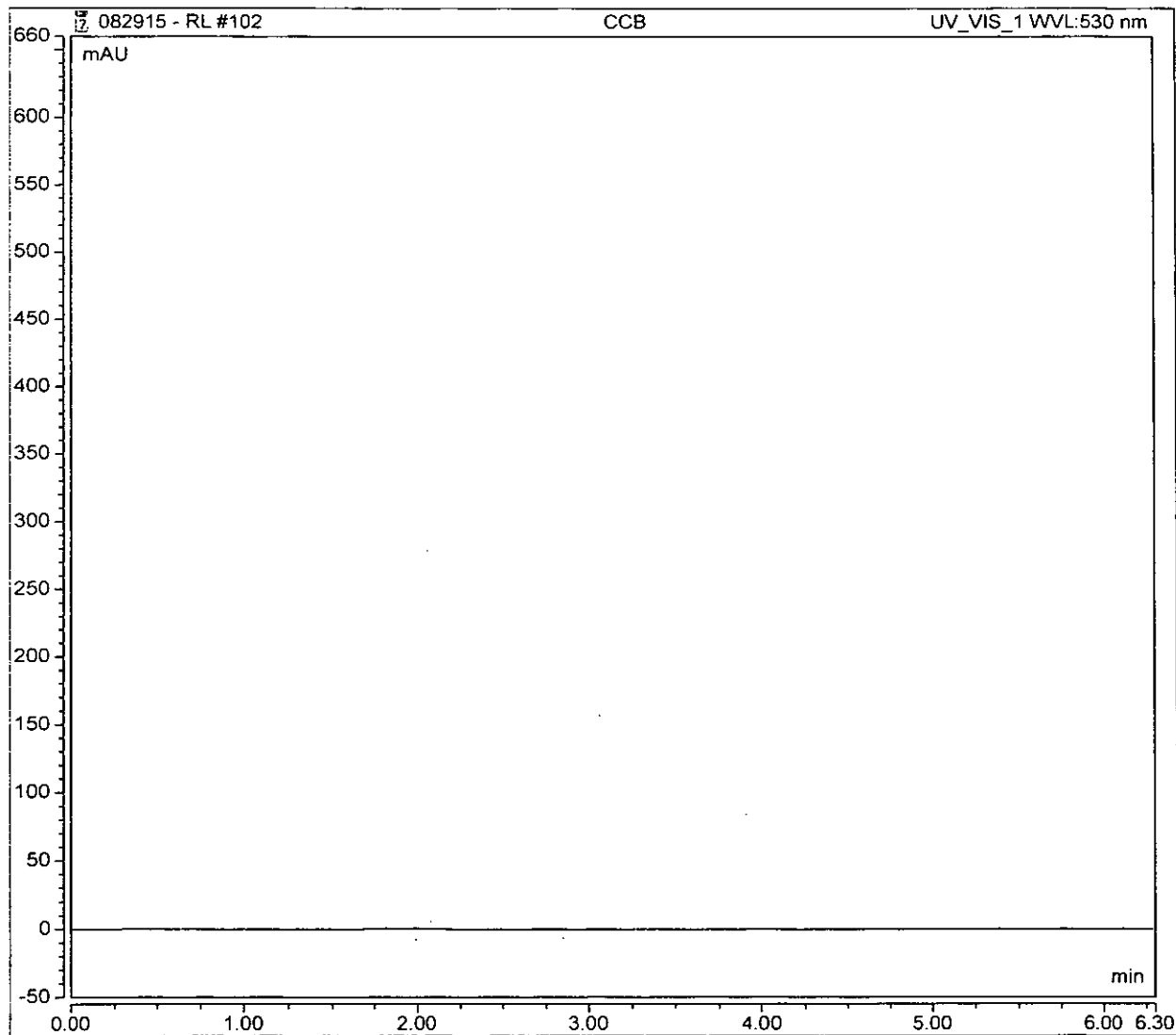
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	3.98	Cr(VI)	BMB	79.853	268.518	0.5183



### Peak Integration Report

Sample Name:	CCB	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	102
Inj. Date / Time:	29-Aug-2015 / 23:52	Sample Comment:	7199/218.6 RL

No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount n.a.
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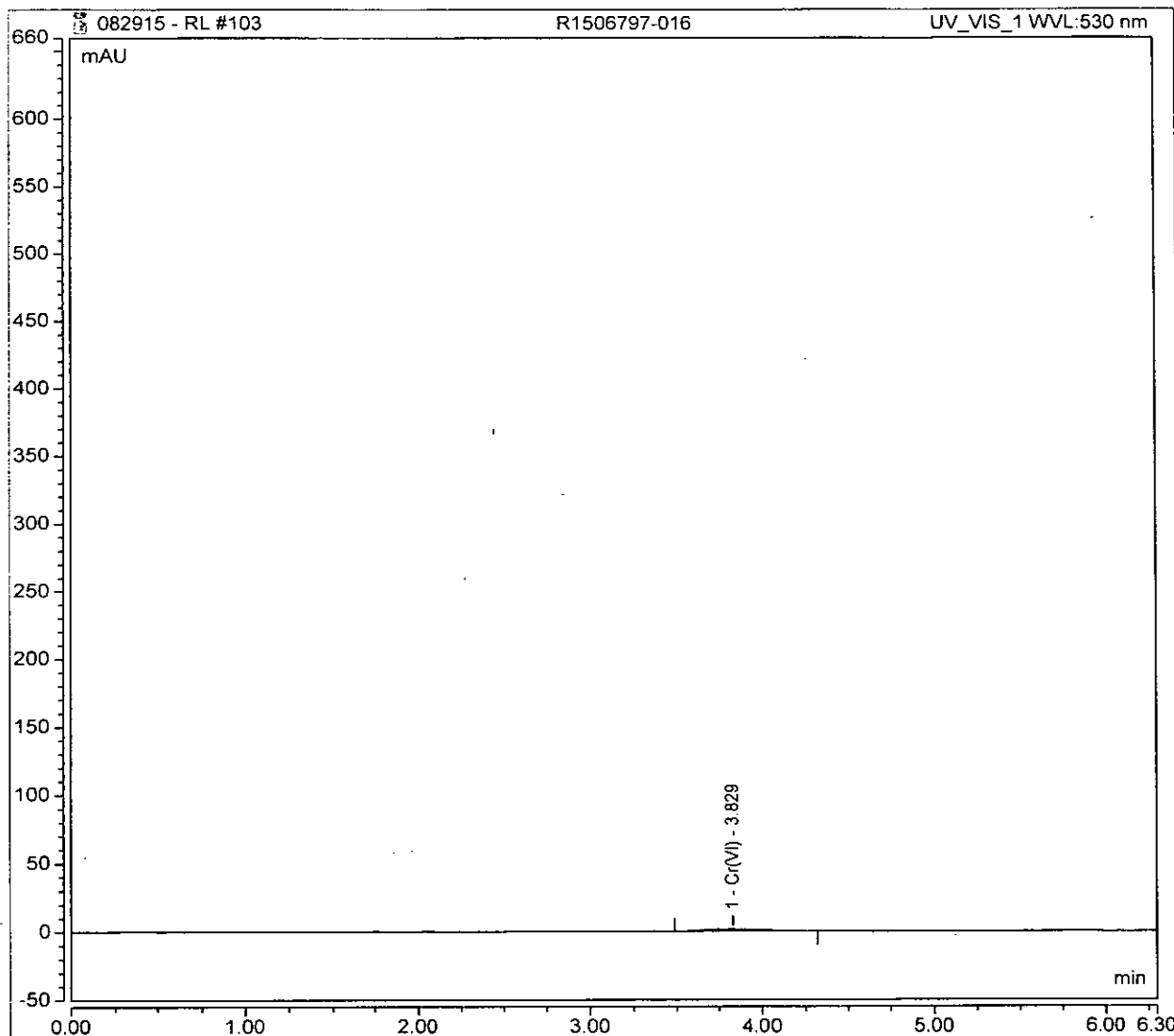




### Peak Integration Report

Sample Name:	R1506797-016	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	103
Inj. Date / Time:	30-Aug-2015 / 00:01	Sample Comment:	7199

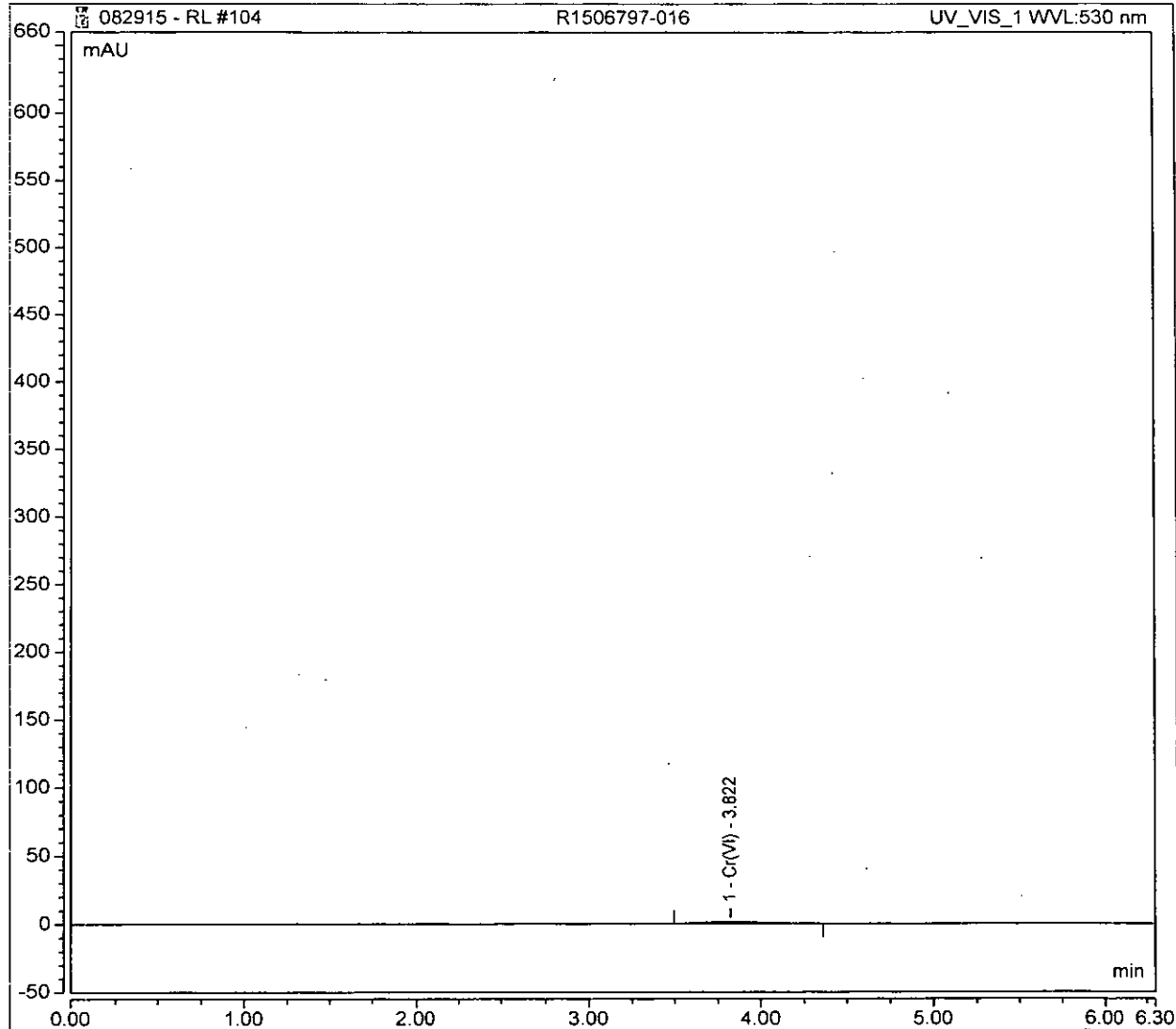
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	3.83	Cr(VI)	BMB	0.552	1.427	0.0037



### Peak Integration Report

Sample Name:	R1506797-016	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	104
Inj. Date / Time:	30-Aug-2015 / 00:09	Sample Comment:	7199 REPLICATE

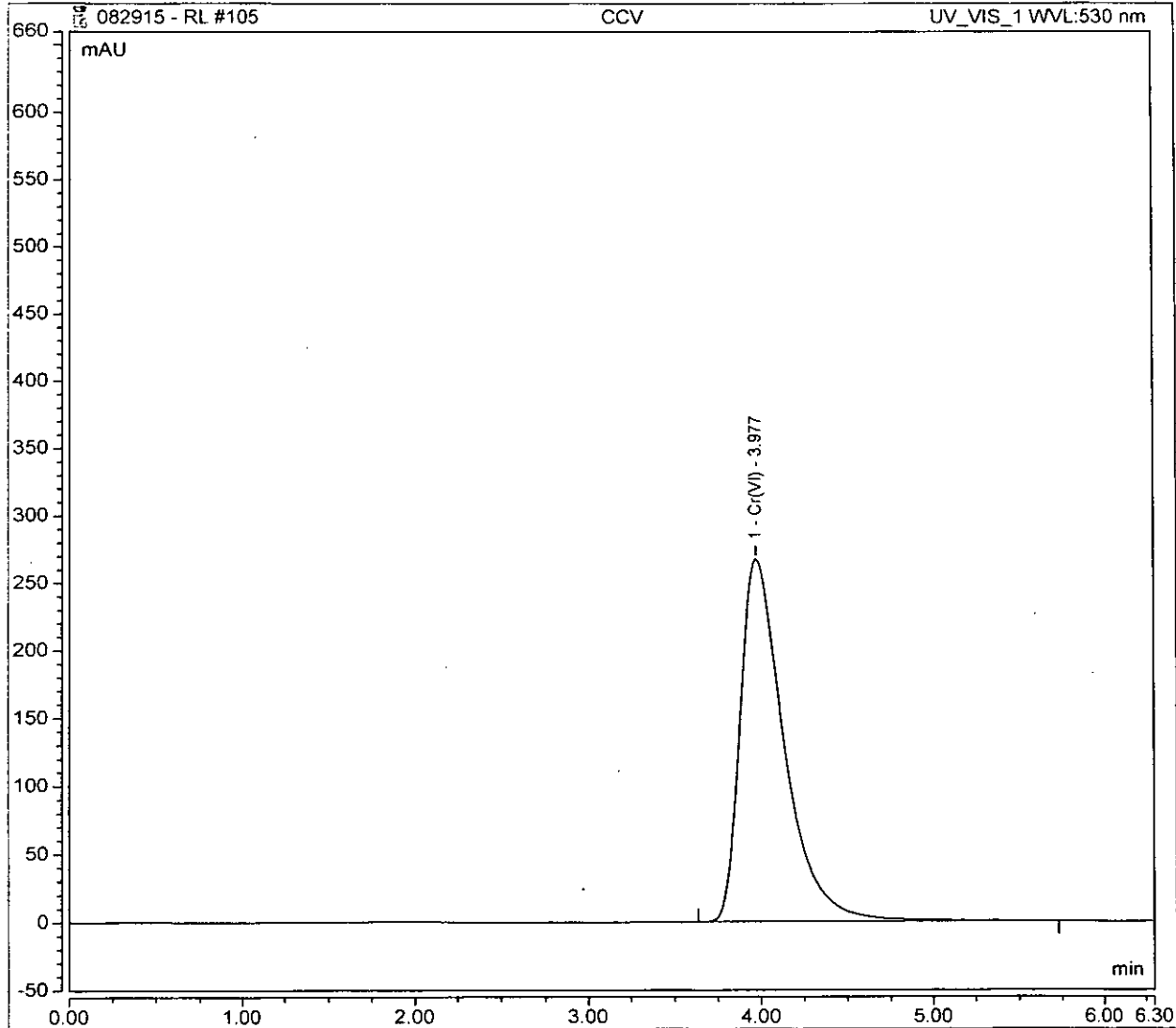
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	3.82	Cr(VI)	BMB	0.552	1.400	0.0037



### Peak Integration Report

Sample Name:	CCV	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	105
Inj. Date / Time:	30-Aug-2015 / 00:16	Sample Comment:	7199/218.6 RL

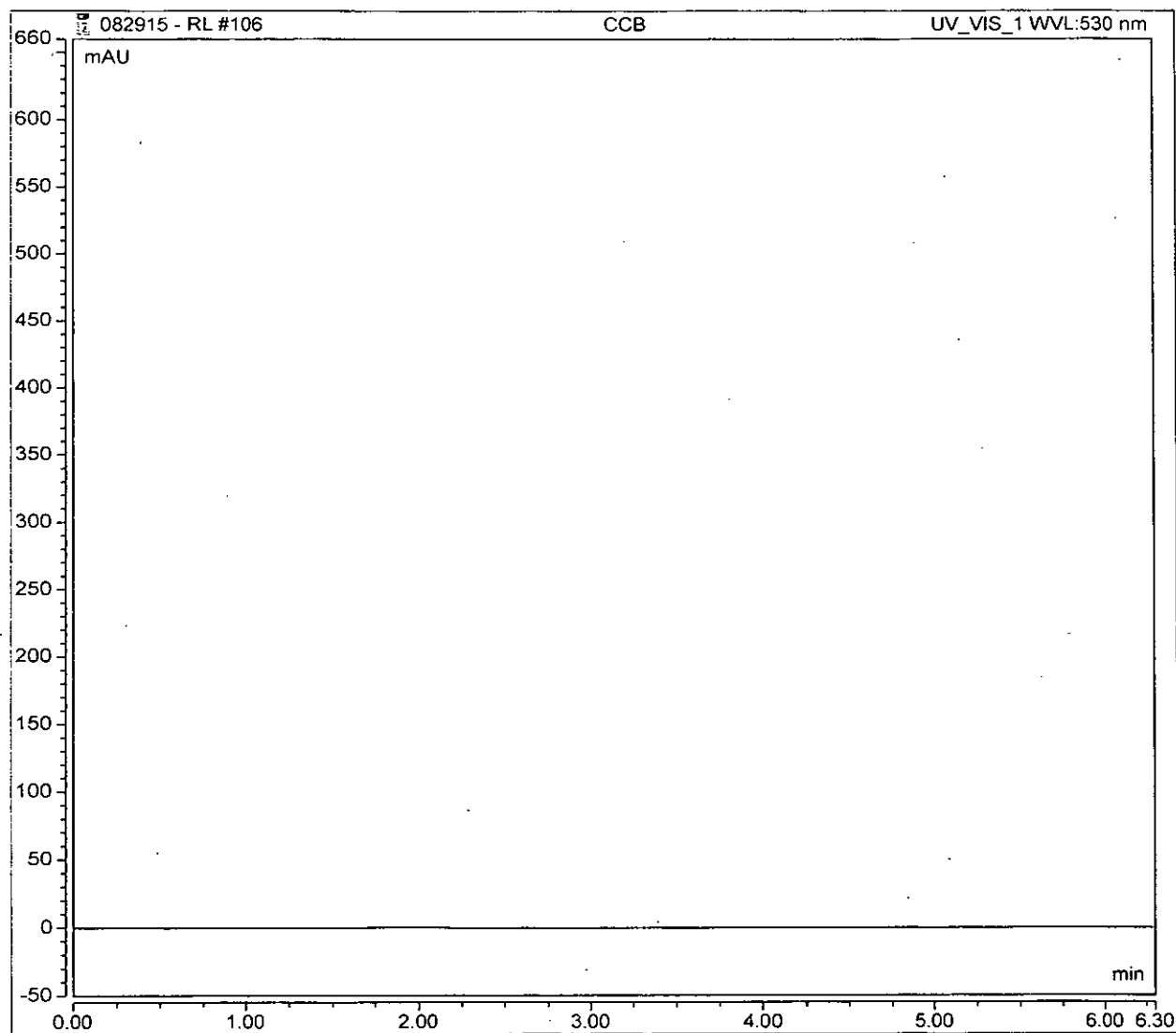
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	3.98	Cr(VI)	BMB	79.555	267.488	0.5164



### Peak Integration Report

Sample Name:	CCB	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	106
Inj. Date / Time:	30-Aug-2015 / 00:25	Sample Comment:	7199/218.6 RL

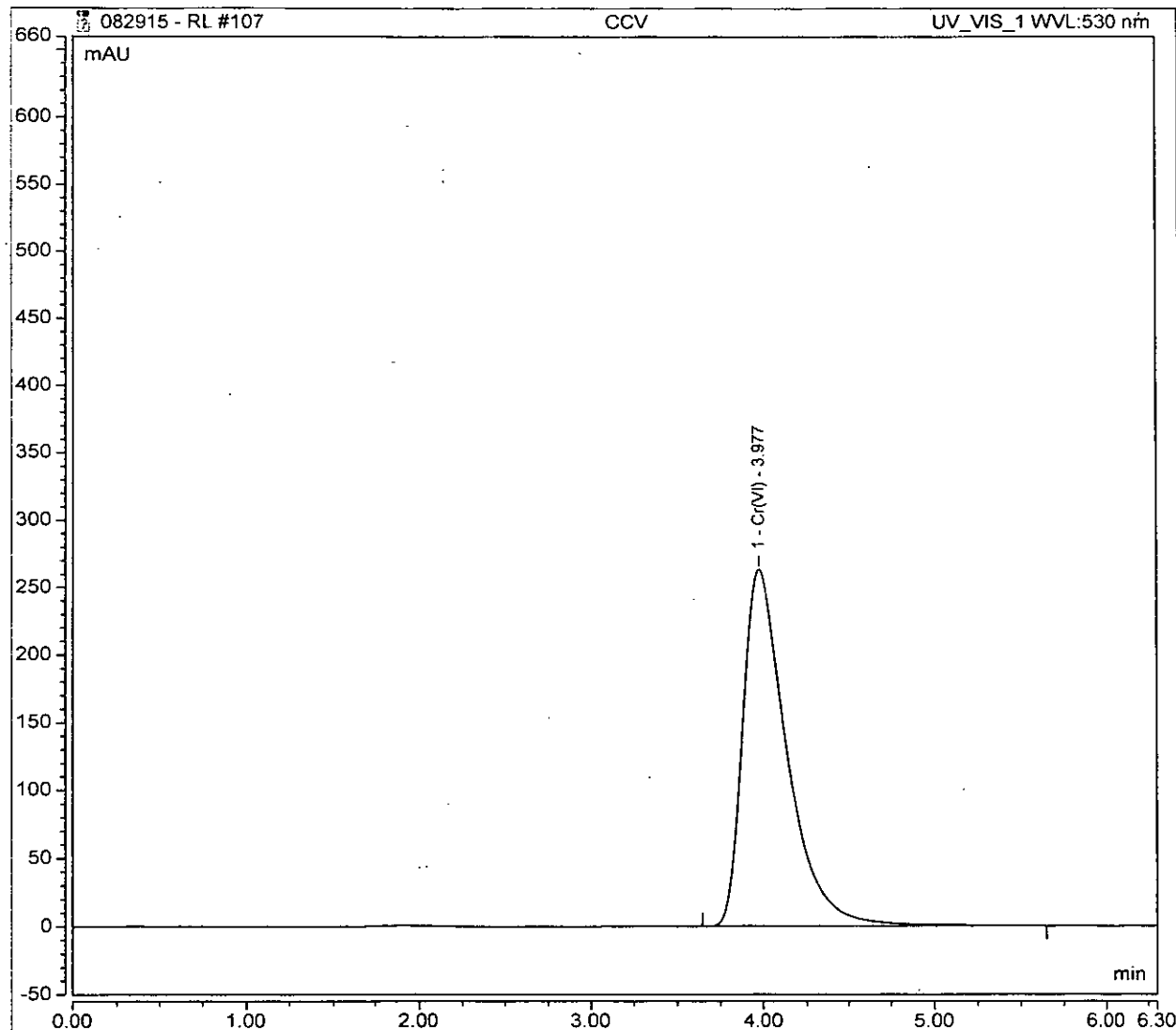
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount n.a.
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### Peak Integration Report

Sample Name:	CCV	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	107
Inj. Date / Time:	30-Aug-2015 / 14:05	Sample Comment:	7199/218.6 RL

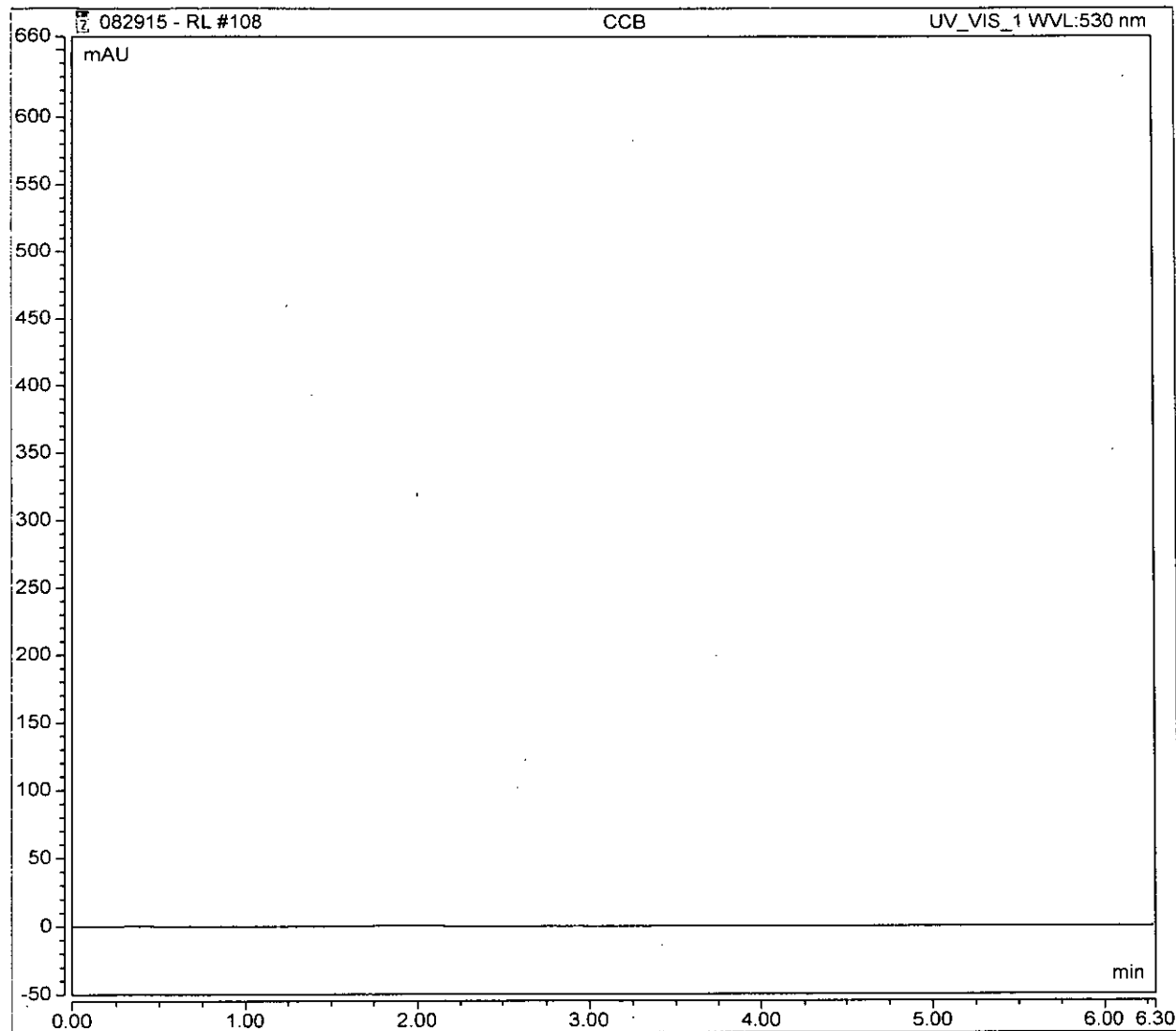
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	3.98	Cr(VI)	BMB	78.393	263.614	0.5089



### Peak Integration Report

Sample Name:	CCB	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	108
Inj. Date / Time:	30-Aug-2015 / 14:13	Sample Comment:	7199/218.6 RL

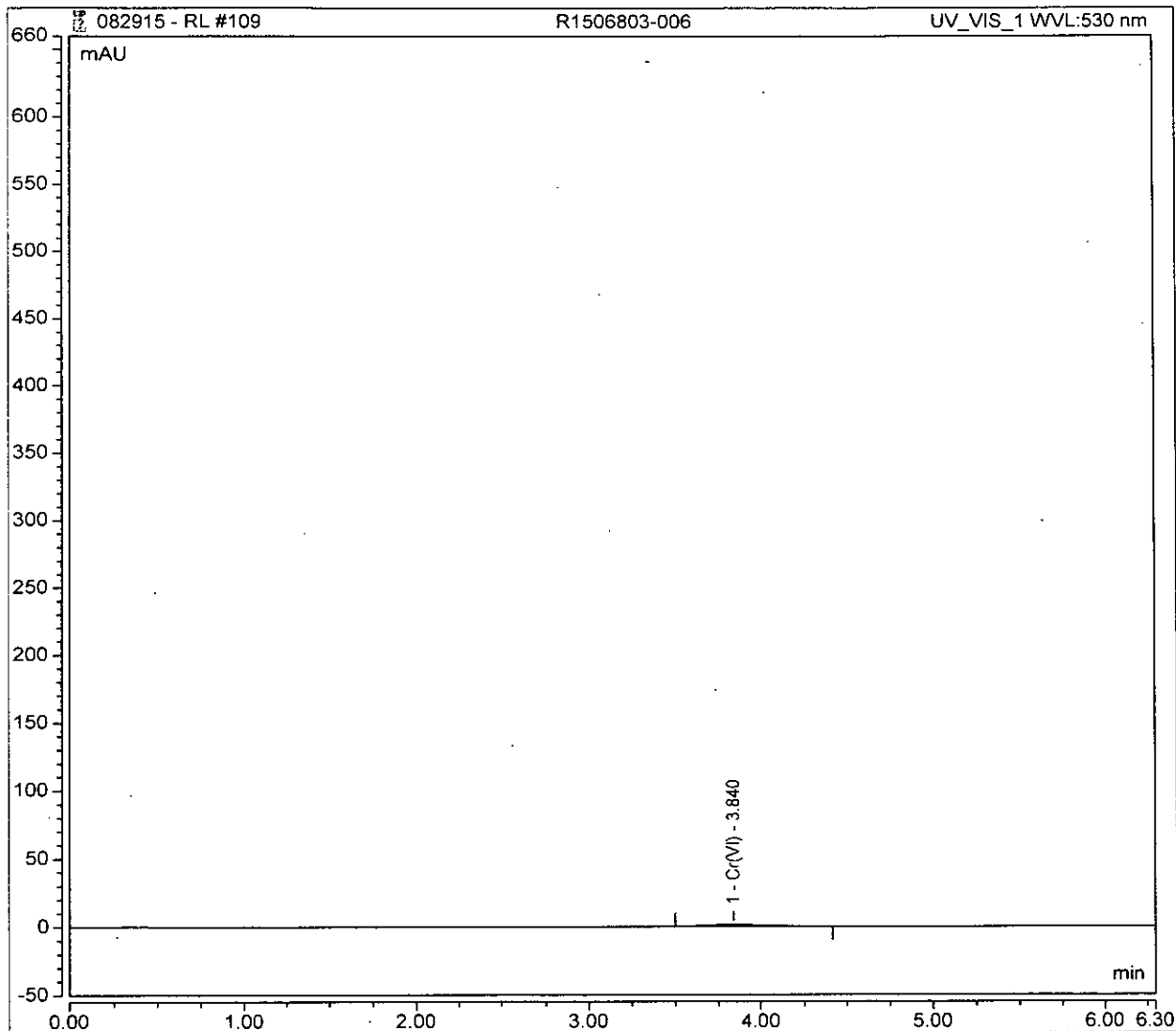
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount n.a.
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### Peak Integration Report

Sample Name:	R1506803-006	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	109
Inj. Date / Time:	30-Aug-2015 / 14:22	Sample Comment:	7199

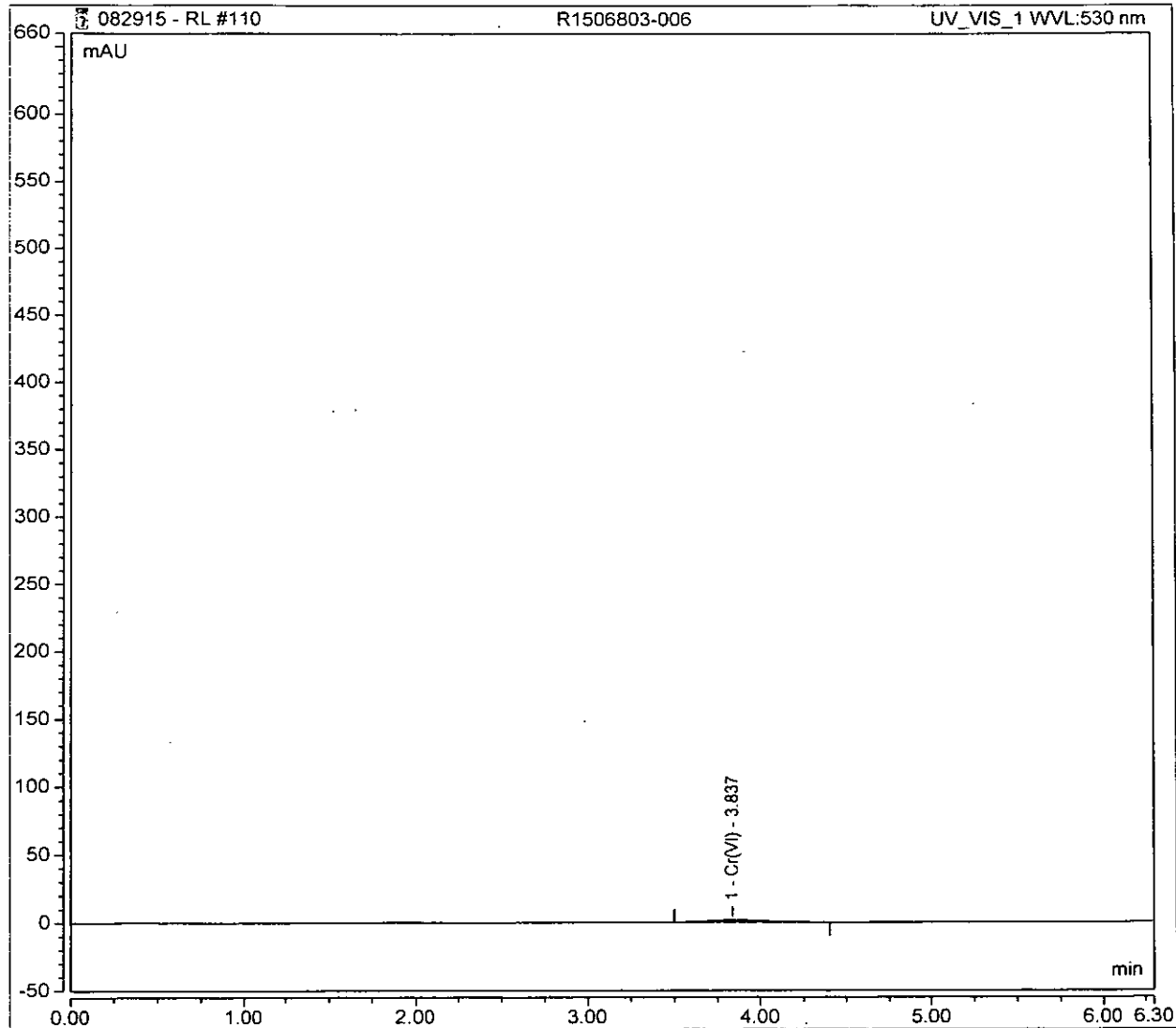
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	3.84	Cr(VI)	BMB	0.607	1.572	0.0040



### Peak Integration Report

Sample Name:	R1506803-006	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	110
Inj. Date / Time:	30-Aug-2015 / 14:30	Sample Comment:	7199 REPLICATE

No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	3.84	Cr(VI)	BMB	0.617	1.606	0.0041

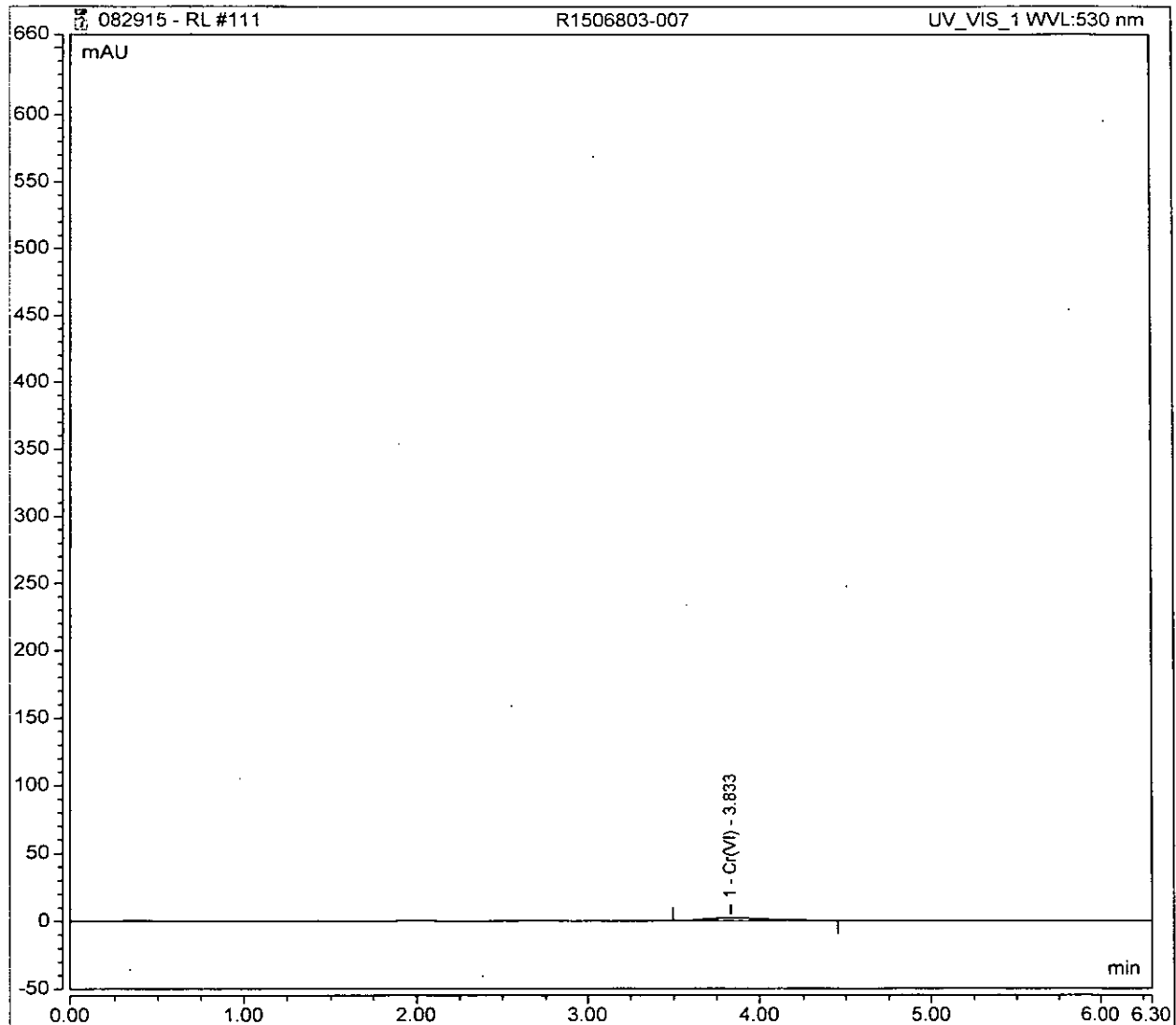




### Peak Integration Report

Sample Name:	R1506803-007	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	111
Inj. Date / Time:	30-Aug-2015 / 14:37	Sample Comment:	7199

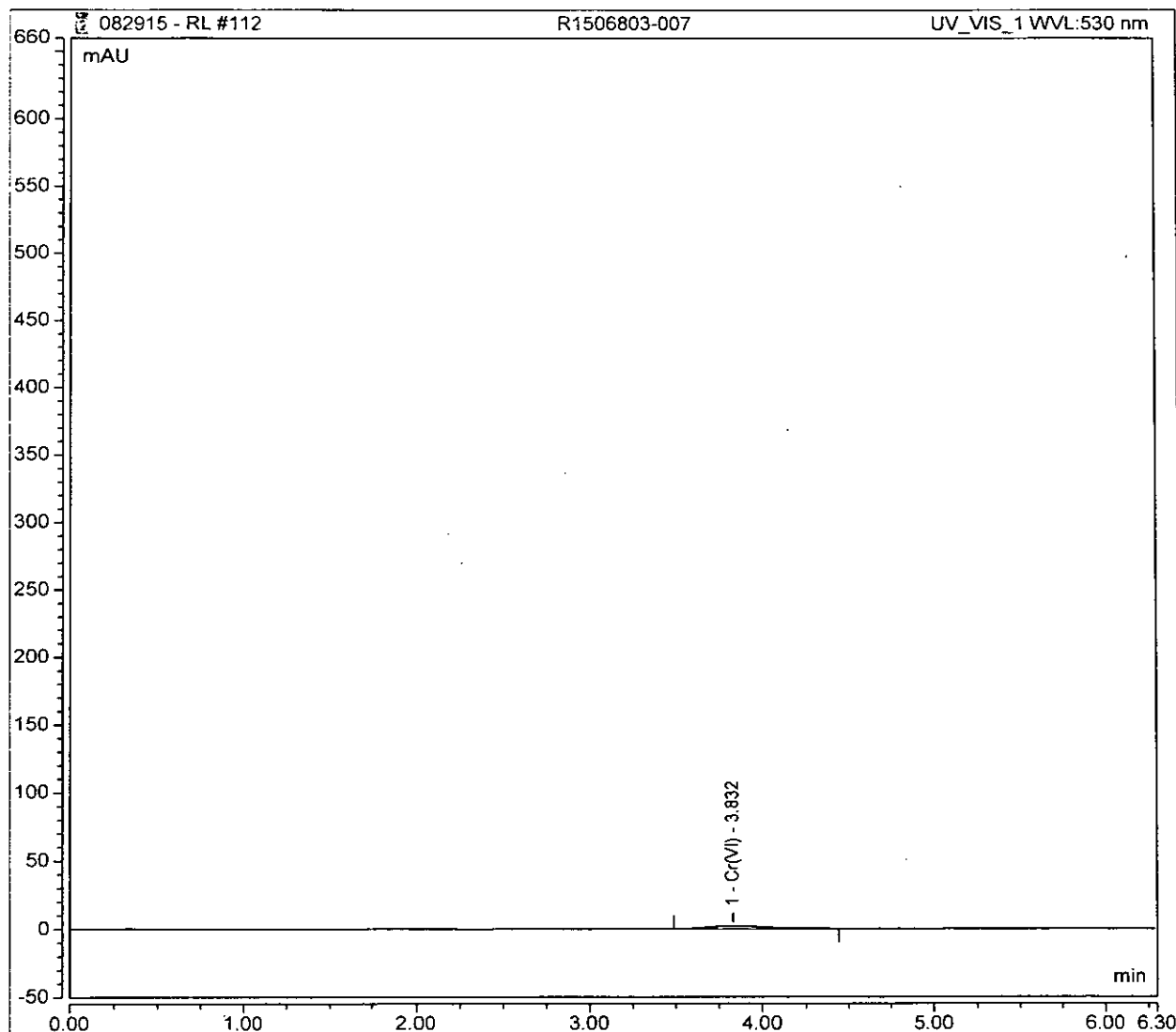
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	3.83	Cr(VI)	BMB	0.825	2.138	0.0055



### Peak Integration Report

Sample Name:	R1506803-007	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	112
Inj. Date / Time:	30-Aug-2015 / 14:46	Sample Comment:	7199 REPLICATE

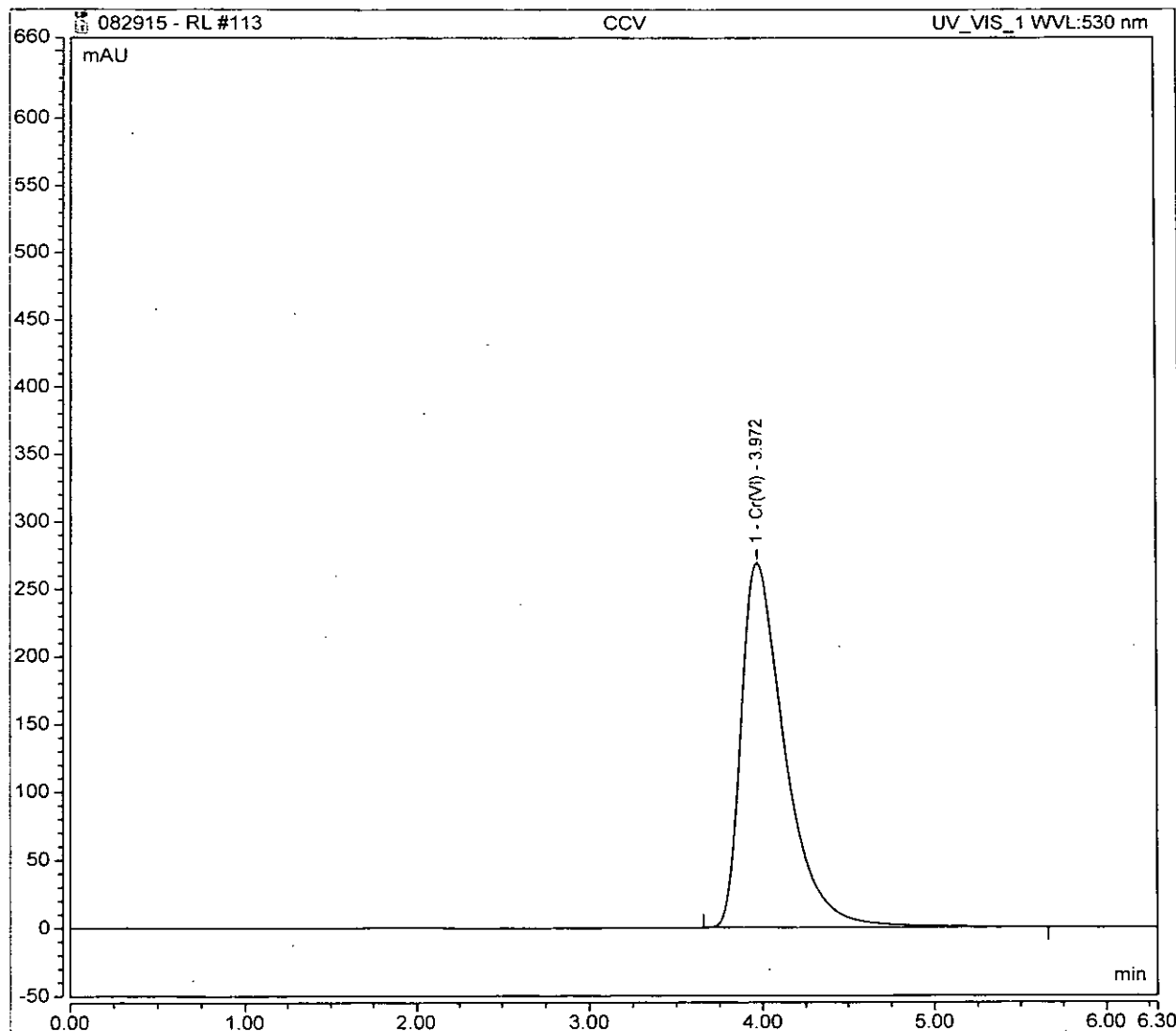
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	3.83	Cr(VI)	BMB	0.828	2.147	0.0055



### Peak Integration Report

Sample Name:	CCV	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	113
Inj. Date / Time:	30-Aug-2015 / 14:53	Sample Comment:	7199/218.6 RL

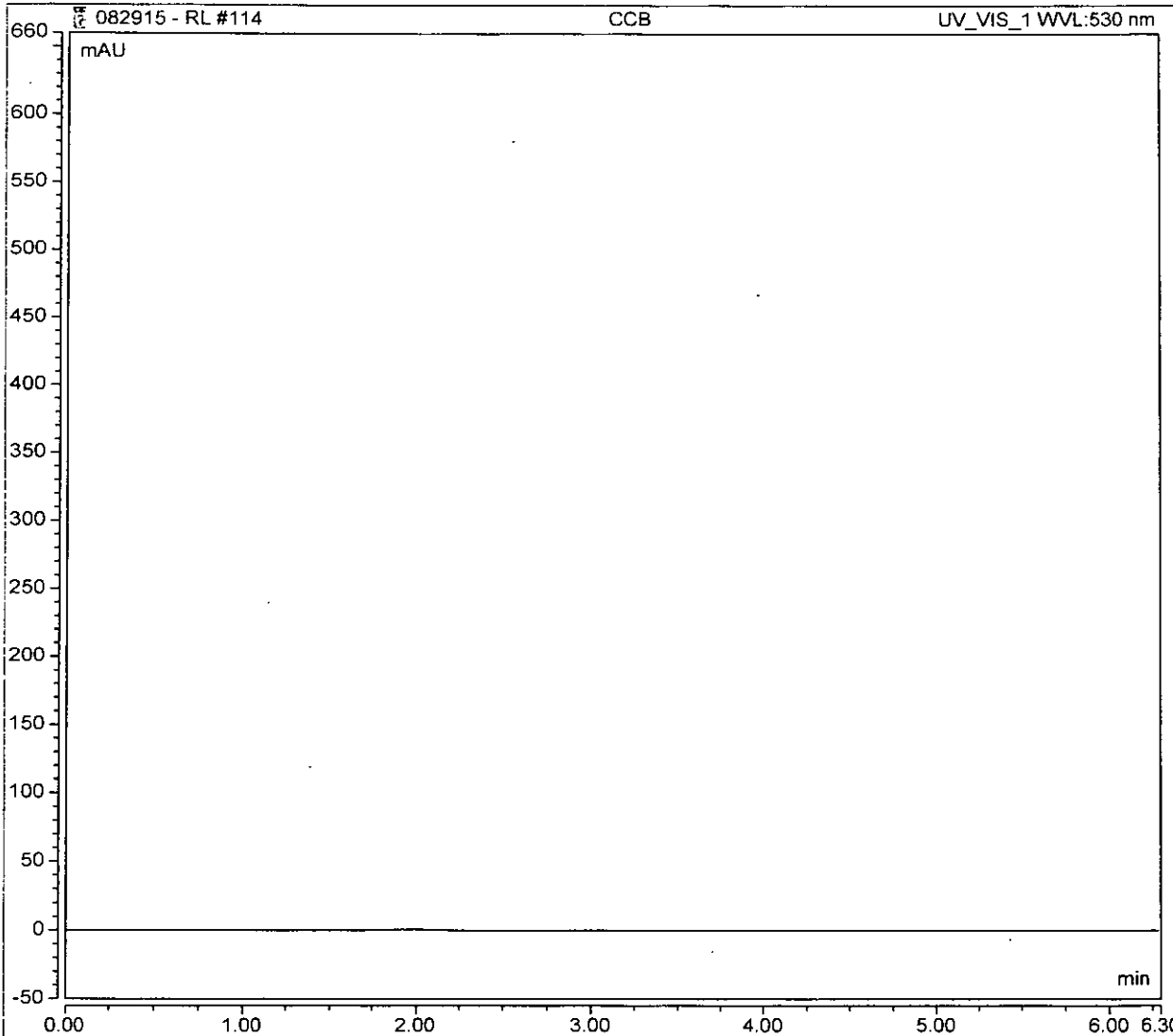
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	3.97	Cr(VI)	BMB	79.434	269.258	0.5156



### Peak Integration Report

Sample Name:	CCB	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	114
Inj. Date / Time:	30-Aug-2015 / 15:02	Sample Comment:	7199/218.6 RL

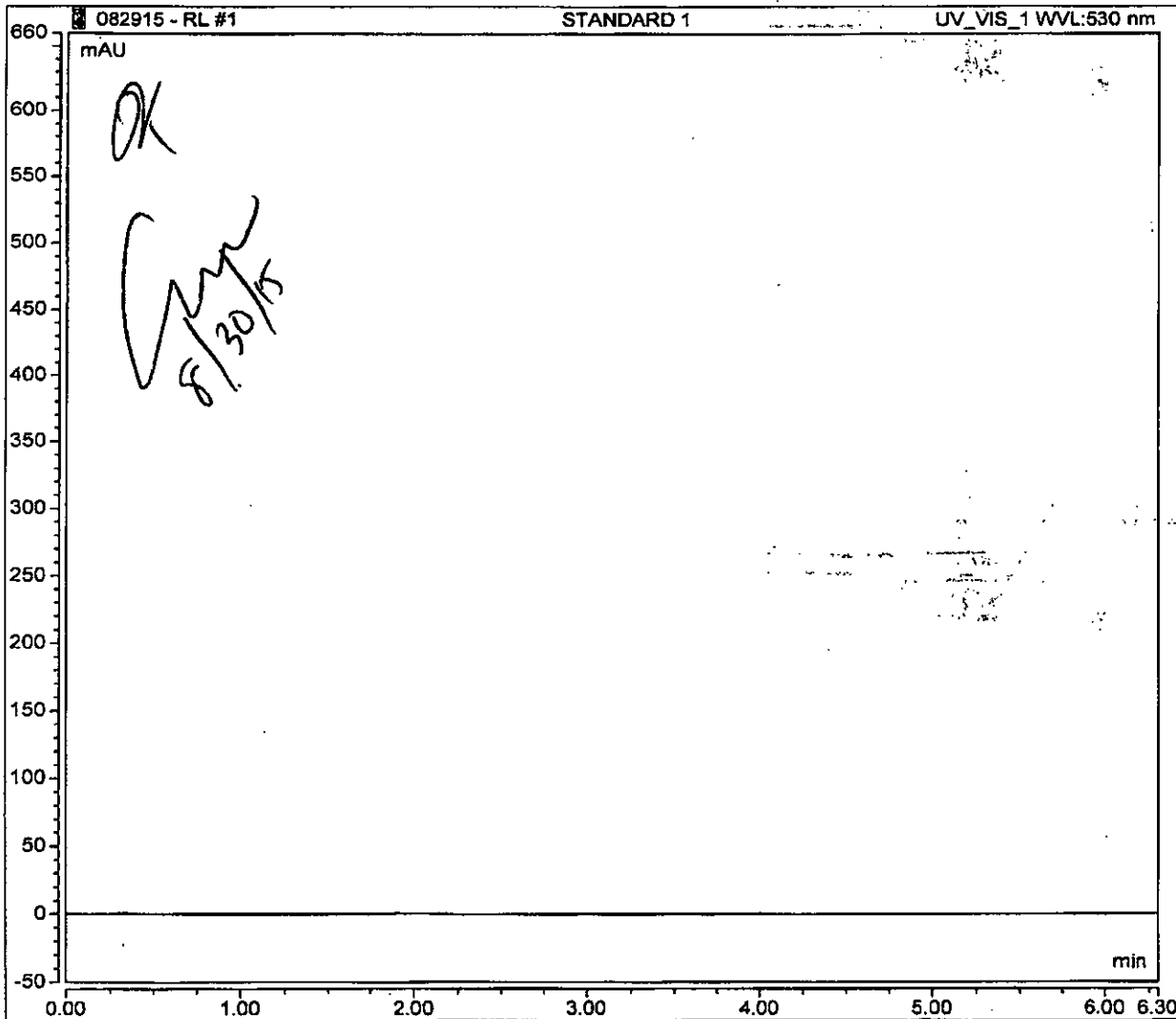
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount n.a.
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### Peak Integration Report

Sample Name:	STANDARD 1	Inj. Vol.:	300.00
Injection Type:	Calibration Standard	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	1
Inj. Date / Time:	29-Aug-2015 / 10:23	Sample Comment:	7199/218.6 RL

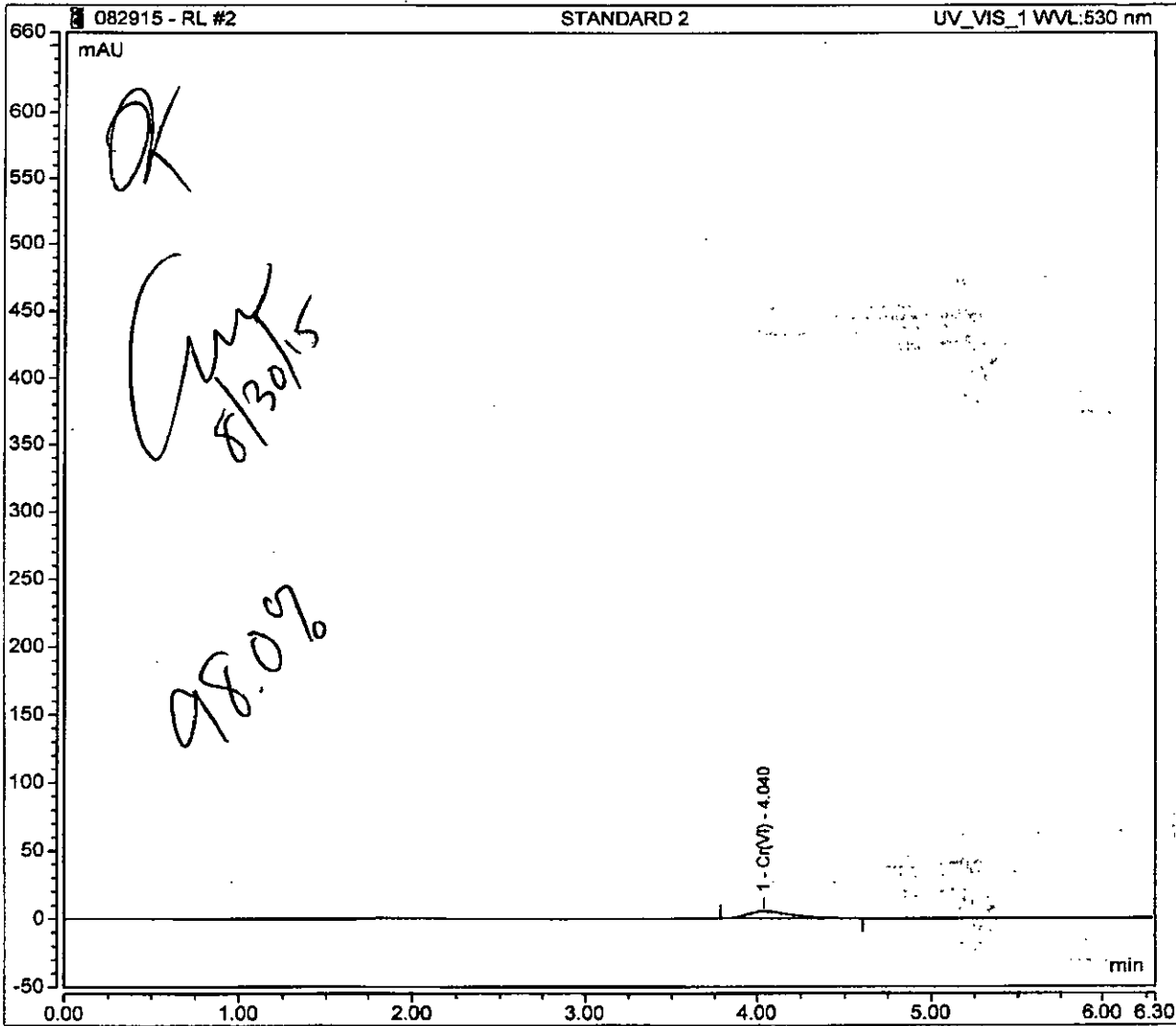
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount
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### Peak Integration Report

Sample Name:	STANDARD 2	Inj. Vol.:	300.00
Injection Type:	Calibration Standard	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	2
Inj. Date / Time:	29-Aug-2015 / 10:31	Sample Comment:	7199/218.6 RL

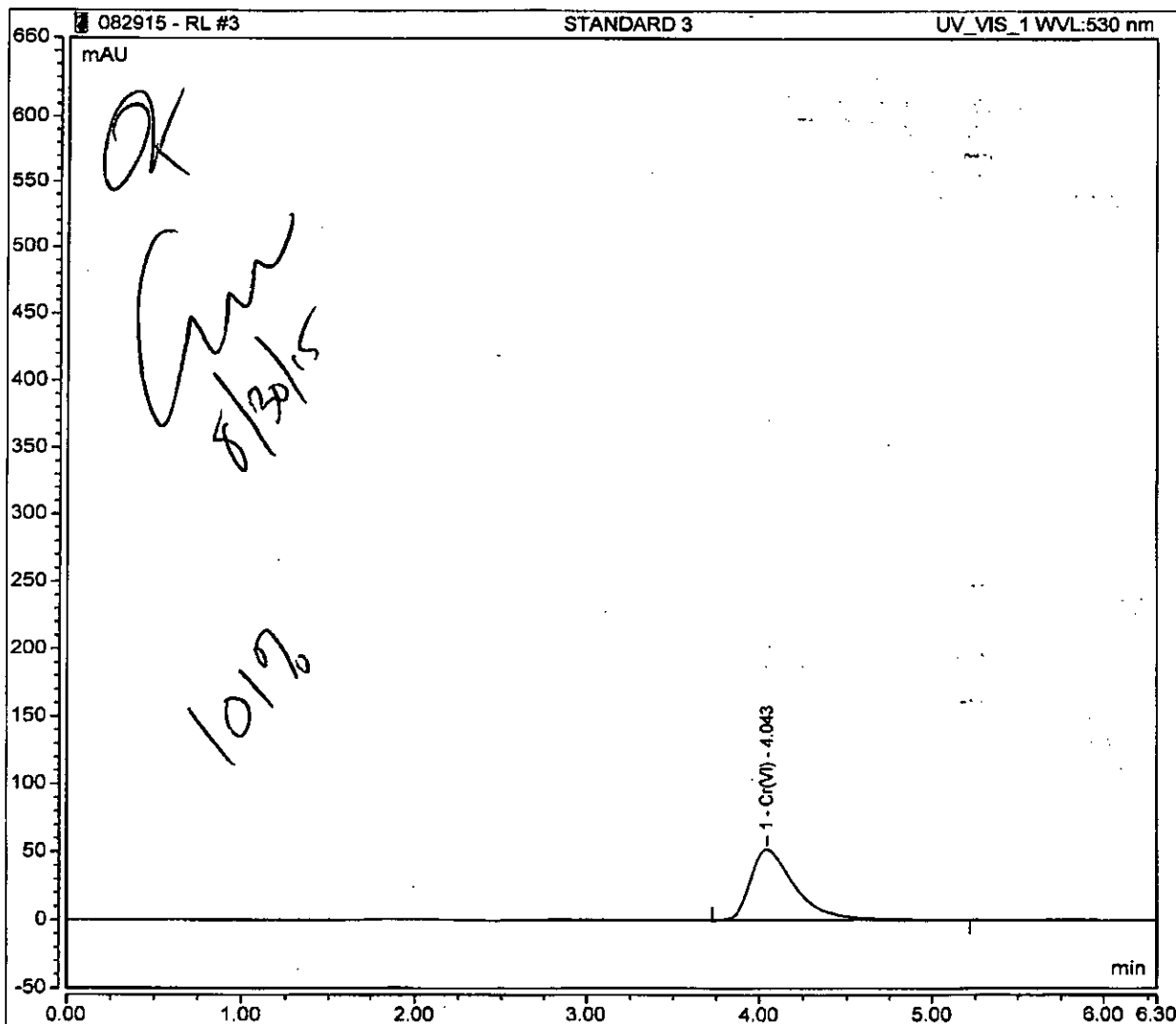
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	4.04	Cr(VI)	BMB	1.493	5.208	0.0098



### Peak Integration Report

Sample Name:	STANDARD 3	Inj. Vol.:	300.00
Injection Type:	Calibration Standard	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	3
Inj. Date / Time:	29-Aug-2015 / 10:40	Sample Comment:	7199/218.6 RL

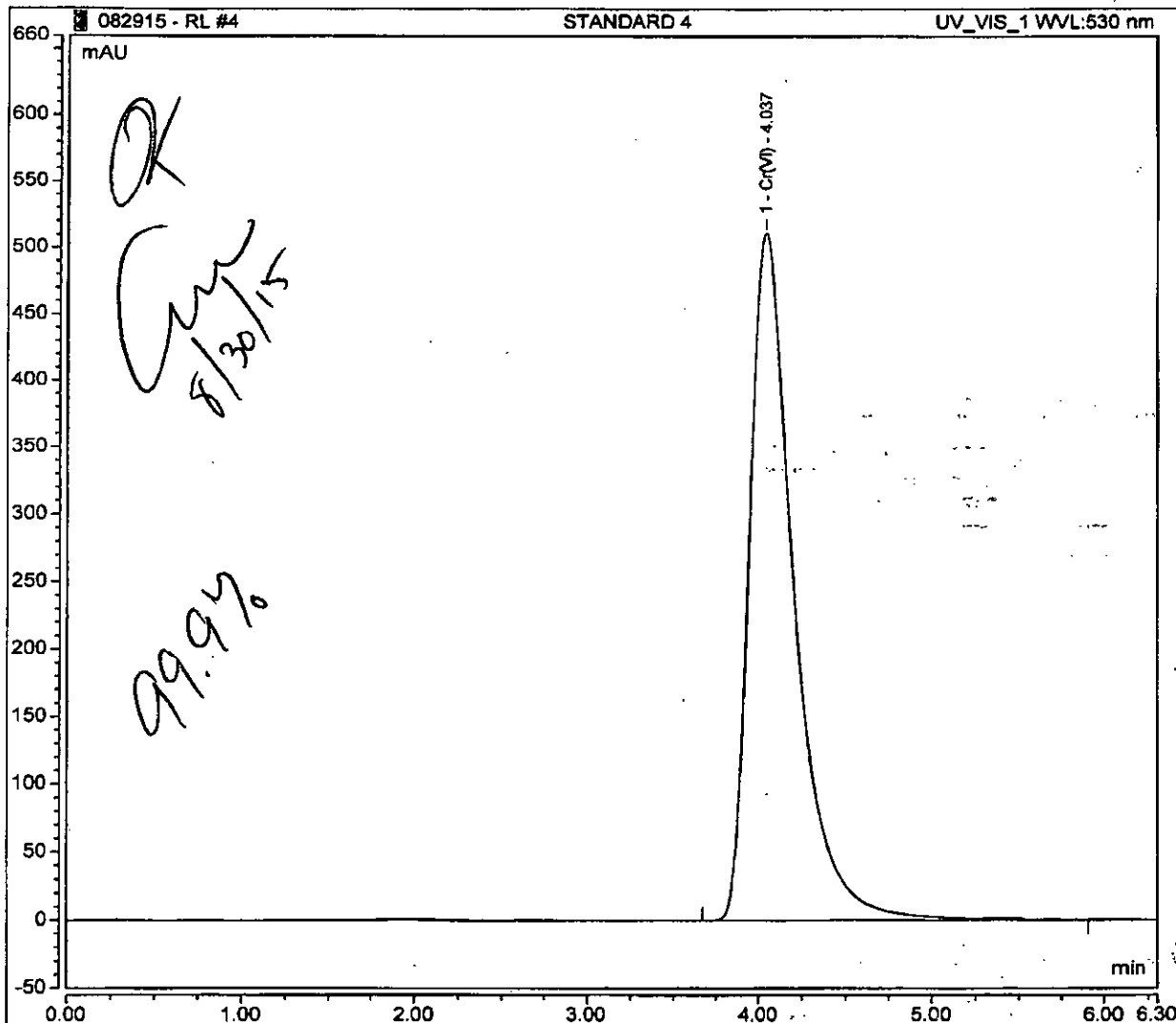
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	4.04	Cr(VI)	BMB	15.579	52.283	0.1012



### Peak Integration Report

Sample Name:	STANDARD 4	Inj. Vol.:	300.00
Injection Type:	Calibration Standard	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	4
Inj. Date / Time:	29-Aug-2015 / 10:48	Sample Comment:	7199/218.6 RL

No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	4.04	Cr(VI)	BMB	153.913	511.163	0.9990

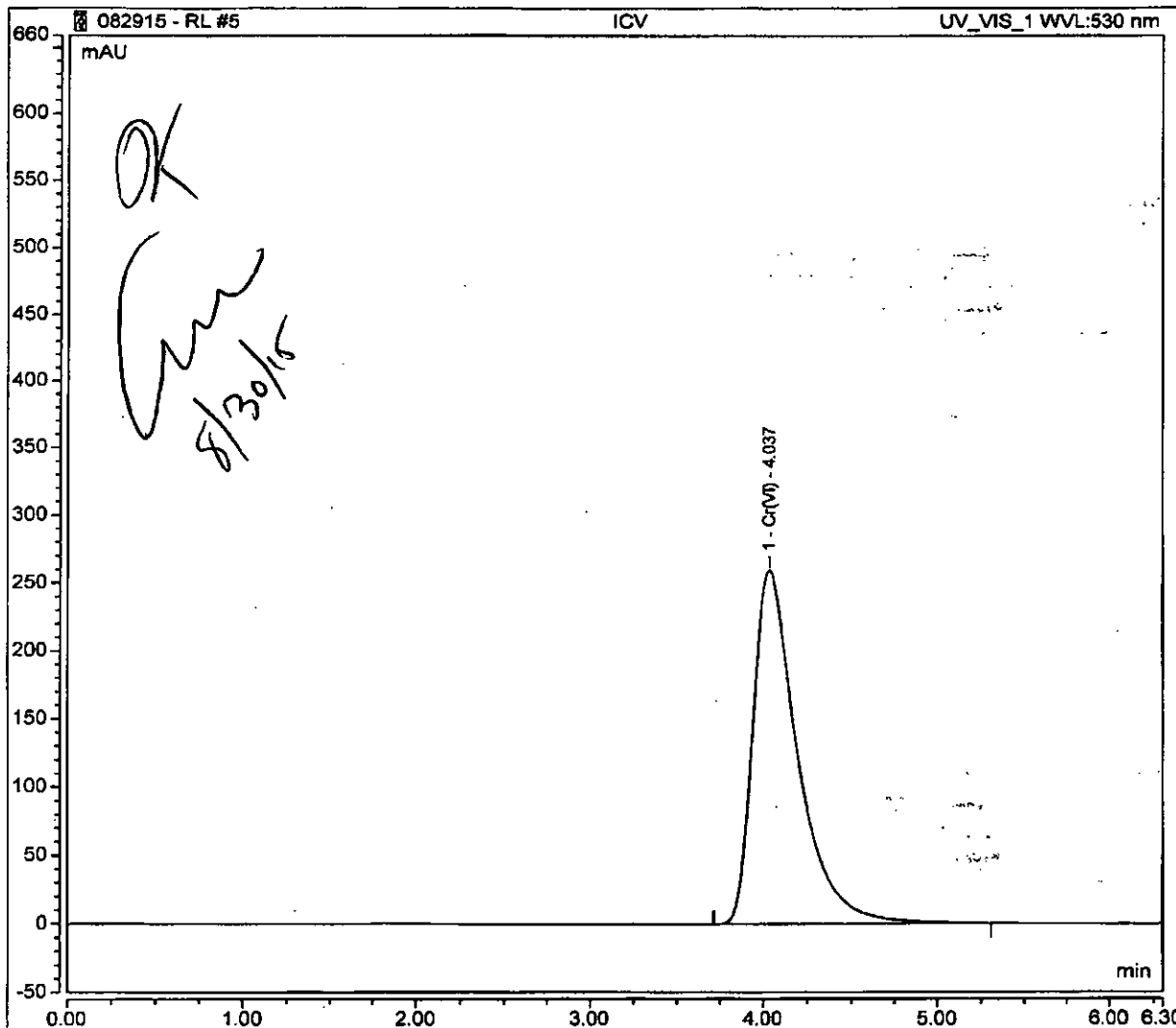




### Peak Integration Report

Sample Name:	ICV	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	6
Inj. Date / Time:	29-Aug-2015 / 10:57	Sample Comment:	7199/218.6 RL

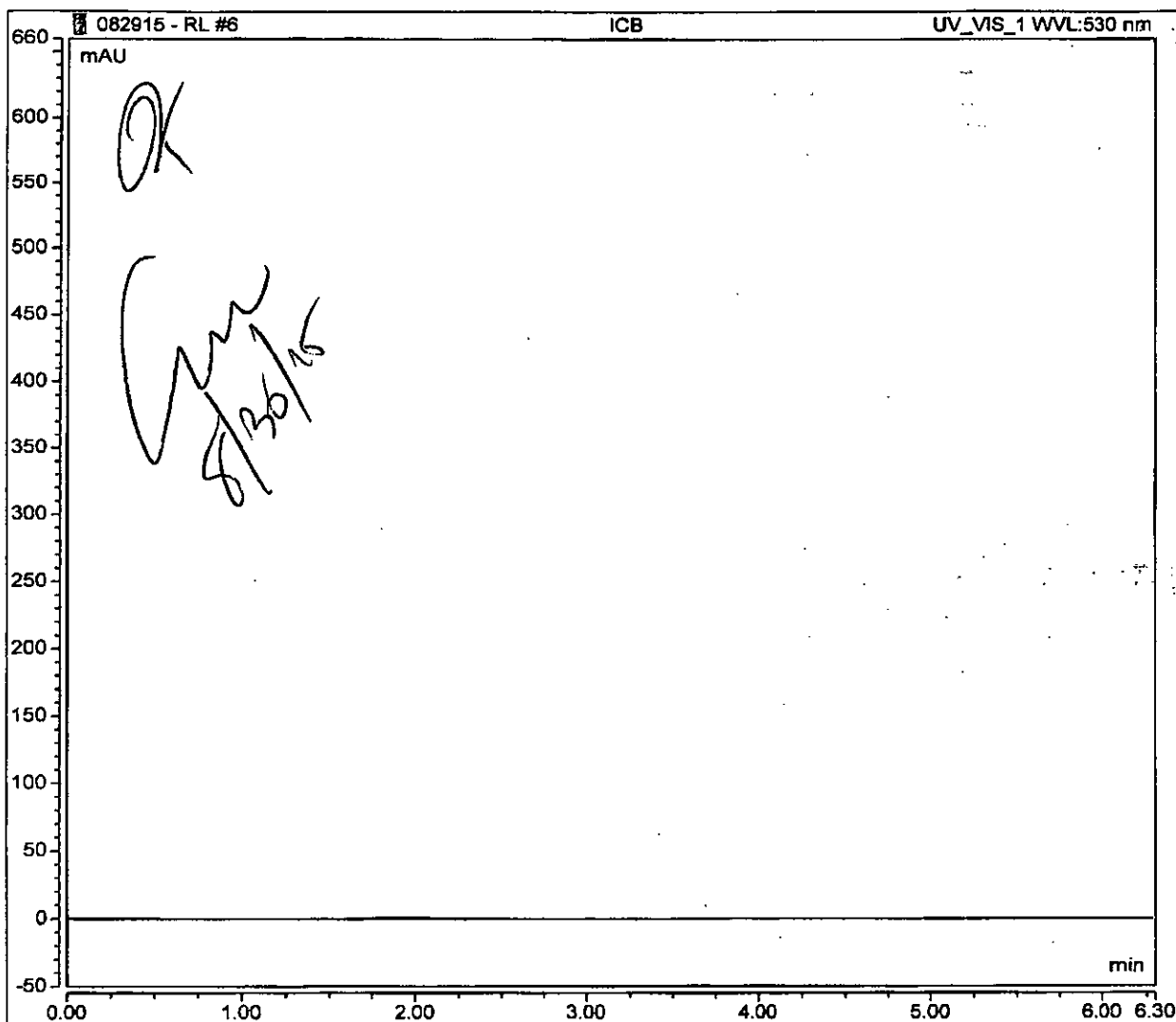
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppm
1	4.04	Cr(VI)	BMB	77.443	259.614	0.5027



### Peak Integration Report

Sample Name:	ICB	Inj. Vol.:	300.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	5-082915 RL	Injection Number:	6
Inj. Date / Time:	29-Aug-2015 / 11:05	Sample Comment:	7199/218.6 RL

No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount n.g.
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**Calibration Batch Report**

Processing Method	5-082915-RL	Injection Volume	300.00
Instrument Method	Cr(VI) w ASDV - RL	Operator	ALRCE_GenChem02

**Calibration Summary**

Peak Name	Eval Type	Cal Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Coeff. Det. %
Cr(VI)	Area	Lin, AddZero, 1/A	4.000	-0.015	154.082	0.000	99.9980
<b>AVERAGE:</b>				-0.0155	154.0824	0.0000	99.9980

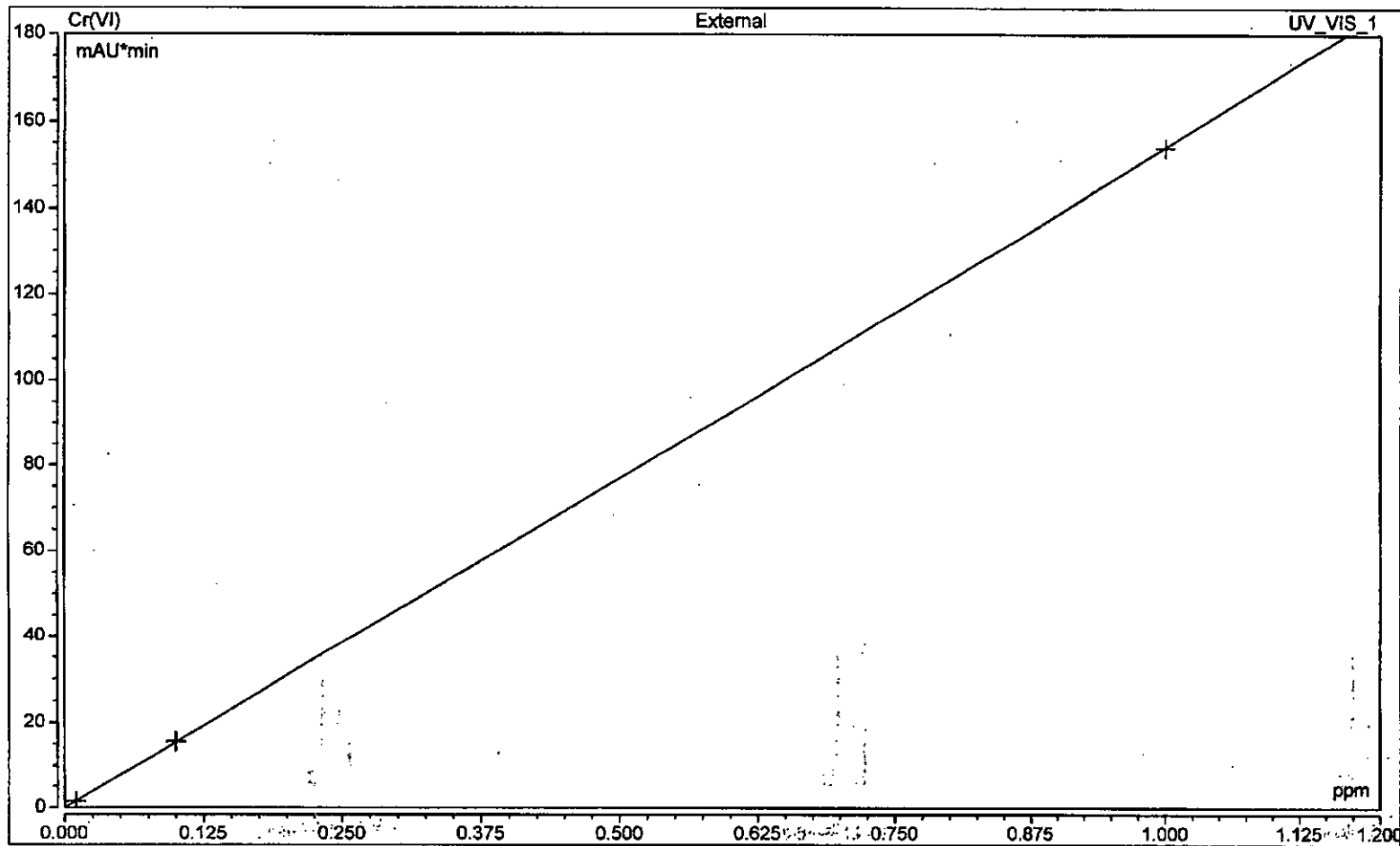
Injection Name	Ret Time min	Area mAU min	Height mAU	Amount ppm
Cr(VI)	Cr(VI)	Cr(VI)	Cr(VI)	Cr(VI)
STANDARD 1	UV_VIS_1 n.a.	UV_VIS_1 n.a.	UV_VIS_1 n.a.	UV_VIS_1 n.a.
STANDARD 2	4.040	1.4927	5.208	0.010
STANDARD 3	4.043	15.5792	52.263	0.101
STANDARD 4	4.037	153.9130	511.163	0.999
<b>Average</b>	<b>4.040</b>			
<b>Rel. Std. Dev.</b>	<b>0.072 %</b>			

Ret Time min	Param Name	Param Value	Int Type	Channel
0.000	Inhibit Integration	On	Any	All Channels
3.000	Inhibit Integration	Off	Any	All Channels
3.000	Peak Slice	1.00 [s]	Any	All Channels
3.000	Minimum Area	0.0010 [Signal*min]	Any	All Channels
3.000	Minimum Height	0.750 [Signal]	Any	All Channels
3.000	Maximum Width	0.750 [min]	Any	All Channels
6.000	Inhibit Integration	On	Any	All Channels

00234

Method Name: 5-082915-RL

Corr. Coefficient: 99.998  
Calibration Type: Lin, AddZero, 1/A



00235

ALS Environmental

1575 Jefferson Road, Building 300, Suite 360, Rochester, New York 14623

Ion Chromatography Cover Sheet

Instrument: Dionex ICS-1000, IC#5  
 Column: AS7 Analytical Column (S/N 016483), NG-1 Guard Column (S/N 024474)  
 4mm, Guard Column installed 07/04/14, Analytical Column installed 07/04/14

Curve Date: 08/29/15 Loop size: 100 uL Loop

Analyst: C Woods Analysis Date: 8/29/15

Preps: Top, Bottom

CALIBRATION CURVE IS LINEAR FOR THIS METHOD (Method Filename: 5-082915RL)

Standards Prep Dates & Log ID's:

Std Type	Date Rec'd	Log ID	Std Type	Prep Date	Log ID
Calibration Standard Stock	09/23/14	WC140066D	Calibration Stds	08/29/15	SAME AS WC126190E
LCS / MS Soluble Stock	09/23/14	WC140066D	Soil Soluble MS	Daily	SAME AS WC126191D
ICV Standard Stock	02/05/15	WC140152H	I/CCV	Daily	SAME AS WC126190F
LCS / MS Insoluble Stock	01/18/13	WC112202F	Soil Insoluble	Daily	SAME AS
	Soils Only	Soils Only	LCS		WC126191C
			MS		WC126191E
LCS for Waters	Daily	SAME AS WC126191A	MS for Waters	Daily	SAME AS WC126191B

Retention times must be within 10% of original RT as determined by Standard 3 – 4.043 minutes.  
 All analyses are reviewed to ensure that peak integration is performed properly from baseline to baseline.

06/6

102140

Received from Hach

Q125/14

(A) (2) x 500ml Pyridine/Barbituric Acid Reagent, CAT# 52013, Hach Lot# 4211, CAS# 628-13-7, 67-52-7, 110-86-1, 7732-18-5. Store @ 4°C. Expires 1/31/2015 AS per manufacturer.

75000

Q125/14

Rec  
(A) (6)  
CAS#  
00000  
manuf

(B) Same as above; (1) x 500ml. Lot# 4204.

75001

Received from VWR

(C) (6) x 1L Sodium Hypochlorite Solution, CAT SS290-1, CAS# 7681-52-9 and 7732-18-5, Fisher Lot 144413. Store @ RT away from sunlight. Expires 4/30/2015, AS per manufacturer.

75002

(B) (1)  
CAS#  
2406  
manuf

(D) (1) x 500ml 1000ppm Chromium Reference Standard Solution. CAT# SC192-500. CAS# 15 7778-50-9 + 7732-18-5. Lot# 144217. Store @ RT. Expires 8/31/2016 AS per manufacturer.

75003

(C) (1)  
CAS#  
0000  
Expires

(E) (1) x 4L Phosphoric Acid, 85%. CAT# 2796-45, CAS#'s 7732-18-5 + 7664-38-2. Macron Lot 000072383. Store @ RT. Expires 2/27/2016 as per manufacturer.

75004

(D) (4)  
OT bal  
cable

Recce

(F) (1) x 2.5Kg Sodium Hydroxide Pellets. CAT# 7708-06, CAS# 1310-73-2. Macron Lot# 0000085584. Store @ RT. Expires 9/6/2016 as per manufacturer.

75005

(E) (12)  
CAT#  
08131

(G) (1) x 25g Silver Sulfate, ACS, 98%. CAT# 11417, Alfa Aesar 24559 Lot, CAS# 10294-26-5. Store @ R-T. No expiry listed - Exp 9/23/19.

75006

152

W16140

2/5/15	Received from VWR	2/5/15	(A) Disc
UMD	(3) x 1L Formamide bycyl Solution. Cat # BDH0500-116. Lot # 146468	BPH 215's UMD	NM
	# 82352, CAS # 51-02-0, lot 514-1. Expires per manufacturer, 10/2016.		Disc
	(B) (1) x 500ml Ethanolamine black T. Cat # LC44740-1. Lot # <sup>(B&amp;C items)</sup> D3022-16.		Wash
	CAS # 187-01-3, 109-80-4. Expires per manufacturer: 10/30/2013	(B) 50	Disc
	(C) (1) x 500g Sulfonamide. Cat # V153-07. JT Baker lot # D000285314. CAS # 123-34-1. Expires per manufacturer: 10/30/2018	Disc	Disc
	(D) (1) x 1L Phosphate Buffer, pH 7.0. Cat # BDH0473-1. BDH lot # 510105. CAS # 7778-77-0, 7558-79-4, 7732-18-5. Expires per manufacturer: 1/5/2016	(C) 10	plus
	(E) (2) x 1L Sodium Thiocyanate Solution 0.1N. Cat # SK082-8. EMD lot # 54108. CAS # 10102-17-3, 497-10-8, 3732-18-5. Expires per manufacturer: 1/31/2016	10	plus
	(F) (4) x 500g Phenol liquid. Cat # 0025-04. Mallin lot # 0000083457, CAS # 108-95-2, 3732-18-5. Expires per manufacturer: 3/17/2020	2/5/15	Disc
2/5/15	(G) 755 Reference	2/5/15	Disc
	0.2141g (Kasha) (suc 922018) diluted w/ 1000g of DI stored in plastic bottle @ 4°C. Exp. 5/15		
2/5/15	<sup>usage</sup> Received from VWR		
UMD	(A) (1) x 500ml Cerro Chromium 1000 µg/ml. <del>lot #</del> Cat # 100012-7	215's UMD	9.1
	High purity standards. lot # 1402709. <del>lot #</del> Expires per manufacturer: 7/2016.		9.1
	(I) (1) x 25g Silver sulfate powder. Cat # 11417. Alfa Aesar lot # 24559. CAS # 10294-24-5. Expires 5 years from date of receipt: 2/5/2020	(E) C	10.
	(J) (1) x 100g Mercury (II) sulfate. Lot # 302916. Alfa Aesar lot # 2220045. CAS # 7783-35-9. Expires 5 years from date of receipt: 2/5/2020.		10.

Continued from page

11/12/13 (A) color reagent - TPW  
to a towel & plastic bottle add!

- 347.0 g. WDT
  - 12.2 g conc. nitro - anhydrous H<sub>2</sub>SO<sub>4</sub> (WCI 2103C)
  - 36.0 g stock #PT (WCI 2103C)
  - 106.5 g stock Ammonium molybdate (WCI 2154B)
- store @ spec. Exp. 8/22/13, or when discovered.

✓ (B) Al<sub>2</sub>O<sub>3</sub> carrier diluent  
medium CAS WCI 2194D, Exp. 11/3 Prepared solution X2.

11/12/13 (C) Reelved from wire!  
Al<sub>2</sub>O<sub>3</sub> (C) 21X SDG zinc acetate Dihydrate cat # 8740-04

micron lot # 23728 CAS # 5970-45-6, store @ spec.  
Exp. 1/18/18 #5386D

(D) CaX 1 L formaldehyde, cat # BDT0500-11P  
BDT lot # 21191, CAS # 50-00-0, lot 56-1, 7732-18-5  
store @ flammable cabinet Exp. 12/20/23 per manufacturer  
#5386A

(E) CaX 25g, silver sulfate cat # 11447 Alfa Reser #5386B  
lot # 515579, CAS # 10294-26-5, Exp. 1/18/18 store @ spec

(F) (1) X SDG Lead (III) Chromate 98%, cat # H10678,  
Alfa Reser lot # 1016079, CAS # 7258-97-6, store @ spec  
Exp. 1/18/18.

*[Handwritten signature]*  
1/21/13

REMARKS

Continued to page

PREPARED TO AND UNDERSTOOD BY

DATE

DATE



Cert 7199/218, vol. Calibration on TC#8, Cal'd

Q1111

3/1/14

① LCS water (True Value = 0.20 ppm)  
To 98 ml of buffered DI add 0.20 ml of 10 ppm Working Standard (WC126190C). Prepare fresh.

② Matrix Spike for Waters (True Value = 0.20 x dilution) ppm  
To 10.0 ml of sample add 0.20 ml of 10 ppm Working Standard (WC126190C). Prepare fresh.

③ LCS Soil

To 21.50g of sand, add 210mg of lead (Pb) Oxide  
(WC12202F). Digest + analyze as normal sample.

$$\text{True Value} = \frac{\text{Mass of PbOxide (mg)}}{0.0025 \text{ Kg Sand}} \times 0.16176 \text{ mg/Kg}$$

④ Solube Matrix Spike for Soils

To about 25g of sample, add 10 ml of 100 ppm Working Standard (WC126190A). Digest + analyze as normal sample.

$$\text{True Value} = \frac{10 \text{ ml} \times 100 \text{ ppm}}{\text{Mass Sample (g)}} \approx 40 \text{ mg/Kg}$$

⑤ Insolve Matrix Spike for Soils

To about 25g sample, add 210 mg PbOxide (WC12202F)  
Digest + analyze as normal sample.

$$\text{True Value} = \frac{\text{mass PbOxide (mg)}}{\text{Mass Sample (Kg)}} \times 0.16176 \approx 644 \text{ mg/Kg}$$

3/9/14

Cr<sup>6+</sup> 7/99/218.6RL Calibration on IC#8

AMW  
3/9/14

(A) 100ppm Cr<sup>6+</sup> Working Standard

Perform a 1/10 serial dilution into buffered DI of the 1000ppm Cr<sup>6+</sup> Standard Stock (WC112232F). Prepare Fresh.

(B) 100ppm Cr<sup>6+</sup> Working Reference

Perform a 1/10 serial dilution into buffered DI of the 1000ppm Cr<sup>6+</sup> Reference Stock (WC126117H). Prepare Fresh.

(C) 10ppm Cr<sup>6+</sup> Working Standard

Perform a 1/10 serial dilution into buffered DI of the 100ppm Cr<sup>6+</sup> Working Standard (WC126190A). Prepare fresh.

(D) 10ppm Cr<sup>6+</sup> Working Reference

Perform a 1/10 serial dilution into buffered DI of the 100ppm Cr<sup>6+</sup> Working Reference (WC126190B). Prepare Fresh.

(E) Calibration Standards

Std #	mls Buffered DI	mls 10ppm Std (WC126190C)	Conc. (ppm)
1	10.0	0.0	0.0
2	1/2 dilution of std # 3		0.005
2.5	1/10 serial dilution of std #4		0.01
3.4	9.9	0.1	0.10
4.5	9.0	1.0	1.0

(F) ICV/CCV (True Value = 0.50ppm)

To 9.5ml of buffered DI add 0.50ml of 10ppm Working Reference (WC126190B). Prepare fresh.

(G) ICB/CCB

Analyze buffered DI as sample.

*[Signature]*  
3/9/14

# Analytical Results Summary


Instrument Name: R-IC-08

Analyst: BKALKMAN

Analysis Lot: 460224 Method/Testcode: 218.6 LL/Cr6 D LL

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ1510102-01	Chromium, Hexavalent, Dissolved	CCV		Water	0.48 ppb	10 mL	0.479 ppb	1 ✓					8/31/15 10:32:00	N	IV
RQ1510102-04	Chromium, Hexavalent, Dissolved	CCB		Water	0.00 ppb	10 mL	0.020 µg/L U	1 ✓	0.010	0.020			8/31/15 10:46:00	N	IV
RQ1510102-08	Chromium, Hexavalent, Dissolved	MB		Water	0.00 ppb	10 mL	0.020 µg/L U	1 ✓	0.010	0.020			8/31/15 10:46:00	N	IV
RQ1510102-07	Chromium, Hexavalent, Dissolved	LCS		Water	0.20 ppb	10 mL	0.203 µg/L	1 ✓	0.010	0.020	101		8/31/15 10:58:00	N	IV
R1506803-020	Chromium, Hexavalent, Dissolved	N/A		Water	0.05 ppb	10 mL	0.049 µg/L	1 ✓	0.010	0.020			8/31/15 11:34:00	N	IV
R1506803-021	Chromium, Hexavalent, Dissolved	N/A		Water	0.04 ppb	10 mL	0.043 µg/L	1 ✓	0.010	0.020			8/31/15 11:46:00	N	IV
R1506803-022	Chromium, Hexavalent, Dissolved	N/A		Water	0.00 ppb	10 mL	0.020 µg/L U	1 ✓	0.010	0.020			8/31/15 11:58:00	N	IV
R1506803-023	Chromium, Hexavalent, Dissolved	N/A		Water	0.00 ppb	10 mL	0.020 µg/L U	1 ✓	0.010	0.020			8/31/15 12:10:00	N	IV
R1506803-024	Chromium, Hexavalent, Dissolved	N/A		Water	0.00 ppb	10 mL	0.020 µg/L U	1 ✓	0.010	0.020			8/31/15 12:22:00	N	IV
R1506803-025	Chromium, Hexavalent, Dissolved	N/A		Water	0.06 ppb	10 mL	0.058 µg/L	1 ✓	0.010	0.020			8/31/15 12:34:00	N	IV
R1506803-026	Chromium, Hexavalent, Dissolved	N/A		Water	0.07 ppb	10 mL	0.068 µg/L	1 ✓	0.010	0.020			8/31/15 12:46:00	N	IV
R1506803-027	Chromium, Hexavalent, Dissolved	N/A		Water	0.07 ppb	10 mL	0.066 µg/L	1 ✓	0.010	0.020			8/31/15 12:58:00	N	IV
RQ1510102-02	Chromium, Hexavalent, Dissolved	CCV		Water	0.49 ppb	10 mL	0.493 ppb	1 ✓					8/31/15 13:10:00	N	IV
RQ1510102-05	Chromium, Hexavalent, Dissolved	CCB		Water	0.00 ppb	10 mL	0.020 µg/L U	1 ✓	0.010	0.020			8/31/15 13:22:00	N	IV
R1506803-019	Chromium, Hexavalent, Dissolved	N/A		Water	0.04 ppb	10 mL	0.038 µg/L	1 ✓	0.010	0.020			8/31/15 13:34:00	N	IV
RQ1510102-03	Chromium, Hexavalent, Dissolved	CCV		Water	0.50 ppb	10 mL	0.502 ppb	1 ✓					8/31/15 15:33:00	N	IV
RQ1510102-06	Chromium, Hexavalent, Dissolved	CCB		Water	0.00 ppb	10 mL	0.020 µg/L U	1 ✓	0.010	0.020			8/31/15 15:45:00	N	IV

002242

**Reviewed & Approved**  
 By:   
 Date: 8/31/15

# indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

08-31-15

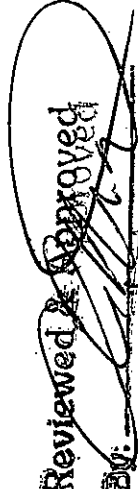
IC#8

218.6LL

Analyst: CWoods

Pipets: Up  
Down

Injection Number	Injection Name	Type	Level	Processing Method	Inject Time	Dilution	Comment
1	STANDARD 1	Calibration Standard	01	8-080715LL	07/08/15 11:20	1.0	218.6 LL
2	STANDARD 2	Calibration Standard	02	8-080715LL	07/08/15 11:30	1.0	218.6 LL
3	STANDARD 3	Calibration Standard	03	8-080715LL	07/08/15 11:40	1.0	218.6 LL
4	STANDARD 4	Calibration Standard	04	8-080715LL	07/08/15 11:52	1.0	218.6 LL
5	STANDARD 5	Calibration Standard	05	8-080715LL	07/08/15 12:04	1.0	218.6 LL
6	STANDARD 6	Calibration Standard	06	8-080715LL	07/08/15 12:16	1.0	218.6 LL
7	STANDARD 7	Calibration Standard	07	8-080715LL	07/08/15 12:28	1.0	218.6 LL
8	STANDARD 1 REPEAT	Calibration Standard	01	8-080715LL	07/08/15 12:41	1.0	218.6 LL
9	STANDARD 2 REPEAT	Calibration Standard	02	8-080715LL	07/08/15 12:53	1.0	218.6 LL
10	CCV	Unknown		8-080715LL	31/08/15 10:32	1.0	218.6 LL
11	CCB	Unknown		8-080715LL	31/08/15 10:46	1.0	218.6 LL
12	LCS	Unknown		8-080715LL	31/08/15 10:58	1.0	218.6 LL
13	R1506803-019	Unknown		8-080715LL	31/08/15 11:22	100.0	218.6 LL
14	R1506803-020	Unknown		8-080715LL	31/08/15 11:34	1.0	218.6 LL
15	R1506803-021	Unknown		8-080715LL	31/08/15 11:46	1.0	218.6 LL
16	R1506803-022	Unknown		8-080715LL	31/08/15 11:58	1.0	218.6 LL
17	R1506803-023	Unknown		8-080715LL	31/08/15 12:10	1.0	218.6 LL
18	R1506803-024	Unknown		8-080715LL	31/08/15 12:22	1.0	218.6 LL
19	R1506803-025	Unknown		8-080715LL	31/08/15 12:34	1.0	218.6 LL
20	R1506803-026	Unknown		8-080715LL	31/08/15 12:46	1.0	218.6 LL
21	R1506803-027	Unknown		8-080715LL	31/08/15 12:58	1.0	218.6 LL
22	CCV	Unknown		8-080715LL	31/08/15 13:10	1.0	218.6 LL
23	CCB	Unknown		8-080715LL	31/08/15 13:22	1.0	218.6 LL
24	R1506803-019 REPEAT	Unknown		8-080715LL	31/08/15 13:34	1.0	218.6 LL
25	R1507139-001	Unknown		8-080715LL	31/08/15 13:46	1.0	218.6 LL
26	R1507139-002	Unknown		8-080715LL	31/08/15 13:58	1.0	218.6 LL
27	R1507139-003	Unknown		8-080715LL	31/08/15 14:10	1.0	218.6 LL
28	R1507139-004	Unknown		8-080715LL	31/08/15 14:22	1.0	218.6 LL
29	R1507139-005	Unknown		8-080715LL	31/08/15 14:33	1.0	218.6 LL
30	R1507139-006	Unknown		8-080715LL	31/08/15 14:45	1.0	218.6 LL
31	R1507139-007	Unknown		8-080715LL	31/08/15 14:57	1.0	218.6 LL
32	R1507139-008	Unknown		8-080715LL	31/08/15 15:09	1.0	218.6 LL
33	R1507139-009	Unknown		8-080715LL	31/08/15 15:21	1.0	218.6 LL
34	CCV	Unknown		8-080715LL	31/08/15 15:33	1.0	218.6 LL
35	CCB	Unknown		8-080715LL	31/08/15 15:45	1.0	218.6 LL

Reviewed & Approved  
 By:   
 Date: 8/31/15

00243

36	LCS	Unknown	8-080715LL	31/08/15 15:57	1.0	218.6 LL
37	R1507139-010	Unknown	8-080715LL	31/08/15 16:09	1.0	218.6 LL
38	K1509407-001	Unknown	8-080715LL	31/08/15 16:21	1.0	218.6 LL
39	K1509407-001 MS	Unknown	8-080715LL	31/08/15 16:33	1.0	218.6 LL
40	K1509407-001 MSD	Unknown	8-080715LL	31/08/15 16:45	1.0	218.6 LL
41	K1509407-002	Unknown	8-080715LL	31/08/15 16:57	1.0	218.6 LL
42	K1509407-002 MS	Unknown	8-080715LL	31/08/15 17:09	1.0	218.6 LL
43	K1509407-002 MSD	Unknown	8-080715LL	31/08/15 17:21	1.0	218.6 LL
44	K1509407-003	Unknown	8-080715LL	31/08/15 17:33	1.0	218.6 LL
45	K1509407-004	Unknown	8-080715LL	31/08/15 17:45	1.0	218.6 LL
46	CCV	Unknown	8-080715LL	31/08/15 19:08	1.0	218.6 LL
47	CCB	Unknown	8-080715LL	31/08/15 19:20	1.0	218.6 LL

*Handwritten signature and initials*

Date/Time Received	Sample ID	Analysis	Matrix	Date/Time Sampled	Sample Filtered	Filter Lot ID	Chlorine Residual (mg/L) 218.7 only	pH at Receipt	pH Adjustment	Analyst/ Date/ Time pH Adjustment	Solution Used For PH Adjust	Solution Lot ID
8/28 0755	MW-12A 7139-004	7199 218.6 RL <del>218.6 RL</del> 218.7	Water Drinking Water	8/27 1440	Yes No <u>Field</u>	-	-	11.816	-	8/28 JKS 1000	Buffer 10%H2SO4 10%NH4OH NH4OH(conc)	<del>80635</del> 8/31/15
8/28 0755	MW-6 7139-002	7199 218.6 RL <del>218.6 RL</del> 218.7	<del>Water</del> Drinking Water	8/27 1220	Yes No <u>Field</u>	-	-	9.252	9.303	8/28 JKS 1003	Buffer 10%H2SO4 10%NH4OH NH4OH(conc)	80635 15 Days
8/28 0755	MW-5 7139-001	7199 218.6 RL <del>218.6 RL</del> 218.7	Water <del>Drinking Water</del>	8/27 1130	Yes No <u>Field</u>	-	-	9.112	9.308	8/28 JKS 1007	Buffer 10%H2SO4 10%NH4OH NH4OH(conc)	80635 35 Days
8/28 0755	MW-1 7139-005	7199 218.6 RL <del>218.6 RL</del> 218.7	<del>Water</del> Drinking Water	8/27 1540	Yes No <u>Field</u>	-	-	9.313	-	8/28 JKS 1011	Buffer 10%H2SO4 10%NH4OH NH4OH(conc)	<del>80635</del> 8/31/15
8/29 0850	MW-13B 7139-010	7199 218.6 RL <del>218.6 RL</del> 218.7	<del>Water</del> Drinking Water	8/28/15 1450	Yes No <u>Field</u>	-	-	9.147	9.310	8/29 JKS 0940	Buffer 10%H2SO4 10%NH4OH NH4OH(conc)	80635 4/16
8/29 0850	MW-4 7139-007	7199 218.6 RL <del>218.6 RL</del> 218.7	<del>Water</del> Drinking Water	8/28/15 1440	Yes No <u>Field</u>	-	-	8.788	9.362	8/29 JKS 0943	Buffer 10%H2SO4 10%NH4OH NH4OH(conc)	80635
8/29 0850	MW-13A 7139-009	7199 218.6 RL <del>218.6 RL</del> 218.7	<del>Water</del> Drinking Water	8/20/15 1610	Yes No <u>Field</u>	-	-	8.829	9.330	8/29 0948 JKS	Buffer 10%H2SO4 10%NH4OH NH4OH(conc)	80635
8/29 0850	MW-3 7139-008	7199 218.6 RL <del>218.6 RL</del> 218.7	<del>Water</del> Drinking Water	8/28/15 1335	Yes No <u>Field</u>	-	-	9.387	-	8/29 0953 JKS	Buffer 10%H2SO4 10%NH4OH NH4OH(conc)	80635

	Drinking water 218.7	Drinking water 218.6	Non-Pot Water 218.6	Water 7199
Filter	No	Required	Required	Optional unpreserved - adjust to 9.0-9.5
pH	>8.0	9.0-9.5	9.3-9.7	
Res Chlorine	<0.1 mg/L	NA	NA	NA
Holding Time	14 days	5 days	28 days	24 hours

Date/Time Received	Sample ID	Analysis	Matrix	Date/Time Sampled	Sample Filtered	Filter Lot ID	Chlorine Residual (mg/L) 218.7 only	pH at Receipt	pH Adjustment	Analyst/ Date/ Time pH Adjustment	Solution Used For PH Adjust	Solution Lot ID
8/20/15 07:50	15231 MW-8 6803-022	7199 218.6 RL <del>218.6 LL</del> 218.7	<u>Water</u> Drinking Water	8-19-15 11:58	Yes No <u>Field</u>	-	-	9.220	9.317	KE 8-20-15 11:29	Buffer 10% H2SO4 10% NH4OH NH4OH (conc)	WL140185A
	15231 MW-9 6803-023	7199 218.6 RL <del>218.6 LL</del> 218.7	<u>Water</u> Drinking Water	8-19-15 12:10	Yes No <u>Field</u>	-	-	9.302	-	KE 8-20-15 11:33	Buffer 10% H2SO4 10% NH4OH NH4OH (conc)	WC140185A
	15231 MW-7 6803-024	7199 218.6 RL <del>218.6 LL</del> 218.7	<u>Water</u> Drinking Water	8-19-15 14:33	Yes No <u>Field</u>	-	-	9.396	-	KE 8-20-15 11:35	Buffer 10% H2SO4 10% NH4OH NH4OH (conc)	-
	15231 MW-11 6803-025	7199 218.6 RL <del>218.6 LL</del> 218.7	<u>Water</u> Drinking Water	8-19-15 15:18	Yes No <u>Field</u>	-	-	9.400	-	KE 8-20-15 11:37	Buffer 10% H2SO4 10% NH4OH NH4OH (conc)	-
	15231 Dup 6803-027	7199 218.6 RL <del>218.6 LL</del> 218.7	<u>Water</u> Drinking Water	8-19-15 12:00	Yes No <u>Field</u>	-	-	9.476	-	KE 8-20-15 11:39	Buffer 10% H2SO4 10% NH4OH NH4OH (conc)	-
	15231 6803-026 MW-10	7199 218.6 RL <del>218.6 LL</del> 218.7	<u>Water</u> Drinking Water	8-19-15 16:23	Yes No <u>Field</u>	-	-	9.536	-	KE 8-20-15 11:41	Buffer 10% H2SO4 10% NH4OH NH4OH (conc)	-
8/28 09:40 0755	MW-2 145-7139-006	7199 218.6 RL <del>218.6 LL</del> 218.7	<u>Water</u> Drinking Water	8/27/15 1700	Yes No <u>Field</u>	-	-	9.874	9.316	8/28 JFS 0945	Buffer 10% H2SO4 10% NH4OH NH4OH (conc)	80635
8 ↓	MW-12B 7139-003	7199 218.6 RL 218.6 LL 218.7	Water Drinking Water	8/27/15 1400	Yes No <u>Field</u>	-	-	9.293	9.315	8/28 JFS 0953	Buffer 10% H2SO4 10% NH4OH NH4OH (conc)	80635

	Drinking water 218.7	Drinking water 218.6	Non-Pot Water 218.6	Water 7199
Filter	No	Required	Required	Optional
pH	>8.0	9.0-9.5	9.3-9.7	unpreserved - adjust to 9.0-9.5
Res Chlorine	<0.1 mg/L	NA	NA	NA
Holding Time	14 days	5 days	28 days	24 hours

Date/Time Received	Sample ID	Analysis	Matrix	Date/Time Sampled	Sample Filtered	Filter Lot ID	Chlorine Residual (mg/L) 218.7 only	pH at Receipt	pH Adjustment	Analyst/ Date/ Time pH Adjustment	Solution Used For PH Adjust	Solution Lot ID
7/29/15 0910	5969-020 D11960	7199 218.6 RL <u>218.6</u> 218.7	Water Drinking Water	7/28/15 1030	Yes No Field	-	-	9.801	-	@ 7/29/15 1600	Buffer 10%H2SO4 10%NH4OH NH4OH(conc)	
7/30/15 0900	D11915 6057-016	7199 218.6 RL <u>218.6</u> 218.7	Water Drinking Water	7/29/15 1000	Yes No Field	-	-	9.123	-	@ 7/30/15 1017 JFS	Buffer 10%H2SO4 10%NH4OH NH4OH(conc)	WS 170185A 4/2/14
7/30/15 0900	D11919 6057-018	7199 218.6 RL <u>218.6</u> 218.7	Water Drinking Water	1315	Yes No Field	-	-	9.388	-	@ 7/30/15 1018 JFS	Buffer 10%H2SO4 10%NH4OH NH4OH(conc)	
7/30/15 0900	D11916 6057-017	7199 218.6 RL <u>218.6</u> 218.7	Water Drinking Water	0815	Yes No Field	-	-	9.340	-	@ 7/30/15 1021 JFS	Buffer 10%H2SO4 10%NH4OH NH4OH(conc)	
7/30/15 0900	D11924 6057-019	7199 218.6 RL <u>218.6</u> 218.7	Water Drinking Water	1135	Yes No Field	-	-	9.070	-	@ 7/30/15 1023 JFS	Buffer 10%H2SO4 10%NH4OH NH4OH(conc)	
8/19/15 0745	6003-019	7199 218.6 RL <u>218.6</u> 218.7	Water Drinking Water	8/18/15 1108	Yes No Field	-	-	9.003	9.409	@ 8/19/15 0822	Buffer 10%H2SO4 10%NH4OH NH4OH(conc)	WS 170185A
	-020	7199 218.6 RL <u>218.6</u> 218.7	Water Drinking Water	8/18/15 1448	Yes No Field	-	-	9.565	-	@ 8/19/15 0824	Buffer 10%H2SO4 10%NH4OH NH4OH(conc)	
	-021	7199 218.6 RL <u>218.6</u> 218.7	Water Drinking Water	8/18/15 1053	Yes No Field	-	-	9.545	-	@ 8/19/15 0827	Buffer 10%H2SO4 10%NH4OH NH4OH(conc)	

	Drinking water 218.7	Drinking water 218.6	Non-Pot Water 218.6	Water 7199.
Filter	No	Required	Required	Optional
pH	>8.0	9.0-9.5	9.3-9.7	unpreserved - adjust to 9.0-9.5
Res Chlorine	<0.1 mg/L	NA	NA	NA
Holding Time	14 days	5 days	28 days	24 hours



ALS Environmental  
Rochester, NY

Analyst: C Woods  
 Date: 8/31/15  
 pH Meter ID: pHat Albert  
 Adjustment Solutions: buffer Lot: -

Method 218.6-LL Method 218.6-RL Method 7199 Method 218.7

Folder Number	Sample ID	Matrix (Water or DW)	Sample pH at analysis	Analysis Date
<u>2150</u>	<u>6803-019</u>	<u>Water</u>	<u>9.43</u>	<u>8/31/15</u>
	<u>-020</u>		<u>9.55</u>	
	<u>-021</u>		<u>9.53</u>	
	<u>-022</u>		<u>9.33</u>	
	<u>-023</u>		<u>9.30</u>	
	<u>-024</u>		<u>9.43</u>	
	<u>-025</u>		<u>9.41</u>	
	<u>-026</u>		<u>9.55</u>	
	<u>-027</u>		<u>9.44</u>	
	<u>7139-001</u>		<u>9.31</u>	
	<u>-002</u>		<u>9.34</u>	
	<u>-003</u>		<u>9.33</u>	
	<u>-004</u>		<u>11.84</u>	
	<u>-005</u>		<u>9.32</u>	
	<u>-006</u>		<u>9.33</u>	
	<u>-007</u>		<u>9.35</u>	
	<u>-008</u>		<u>9.39</u>	
	<u>-009</u>		<u>9.35</u>	
			<u>C Woods</u>	
			<u>8/31/15</u>	

Sample pH must be between 9.3 and 9.7 for 218.6 Water.

Sample pH must be between 9.0 and 9.5 for 7199 and 218.6 Drinking Water.

**Sample Dilutions**

Analyst: C Woods  
 Instrument: ICE

Date: 8/31/15  
 Analysis: 218.622

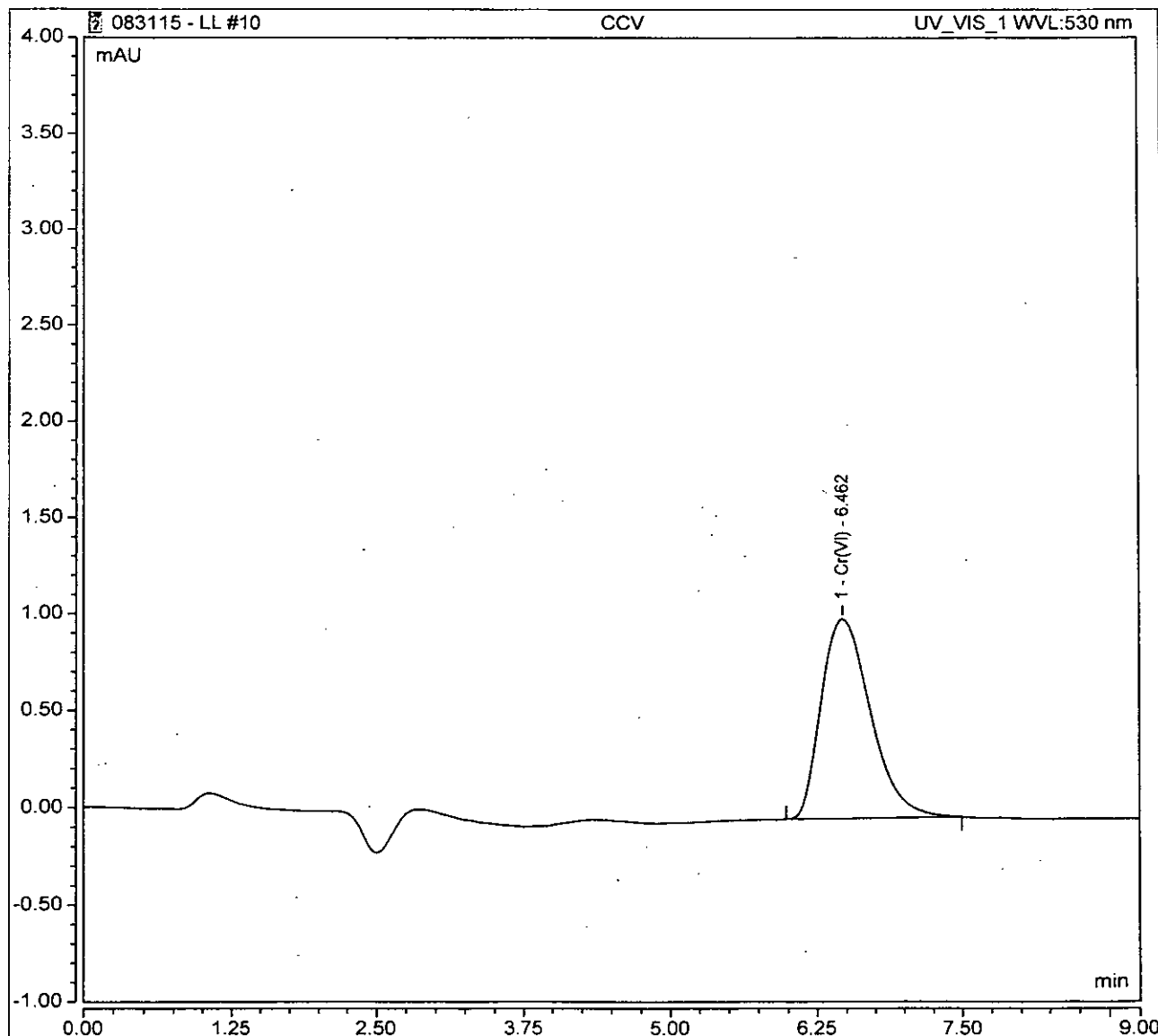
Sample ID	1st Dilution				2nd Dilution			3rd Dilution		
	mL's of Sample	mL's of Diluent	Matrix of Diluent	Dilution Factor	mL's of 1st Dilution	mL's of Diluent	Dilution Factor	mL's of 2nd Dilution	mL's of Diluent	Dilution Factor
1 6803-019	1	9	buffered DI	10	1	9	100			
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										

*C Woods*  
 8/31/15

### Peak Integration Report

Sample Name:	CCV	Inj. Vol.:	500.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	8-080715LL	Injection Number:	10
Inj. Date / Time:	31-Aug-2015 / 10:32	Sample Comment:	218.6 LL

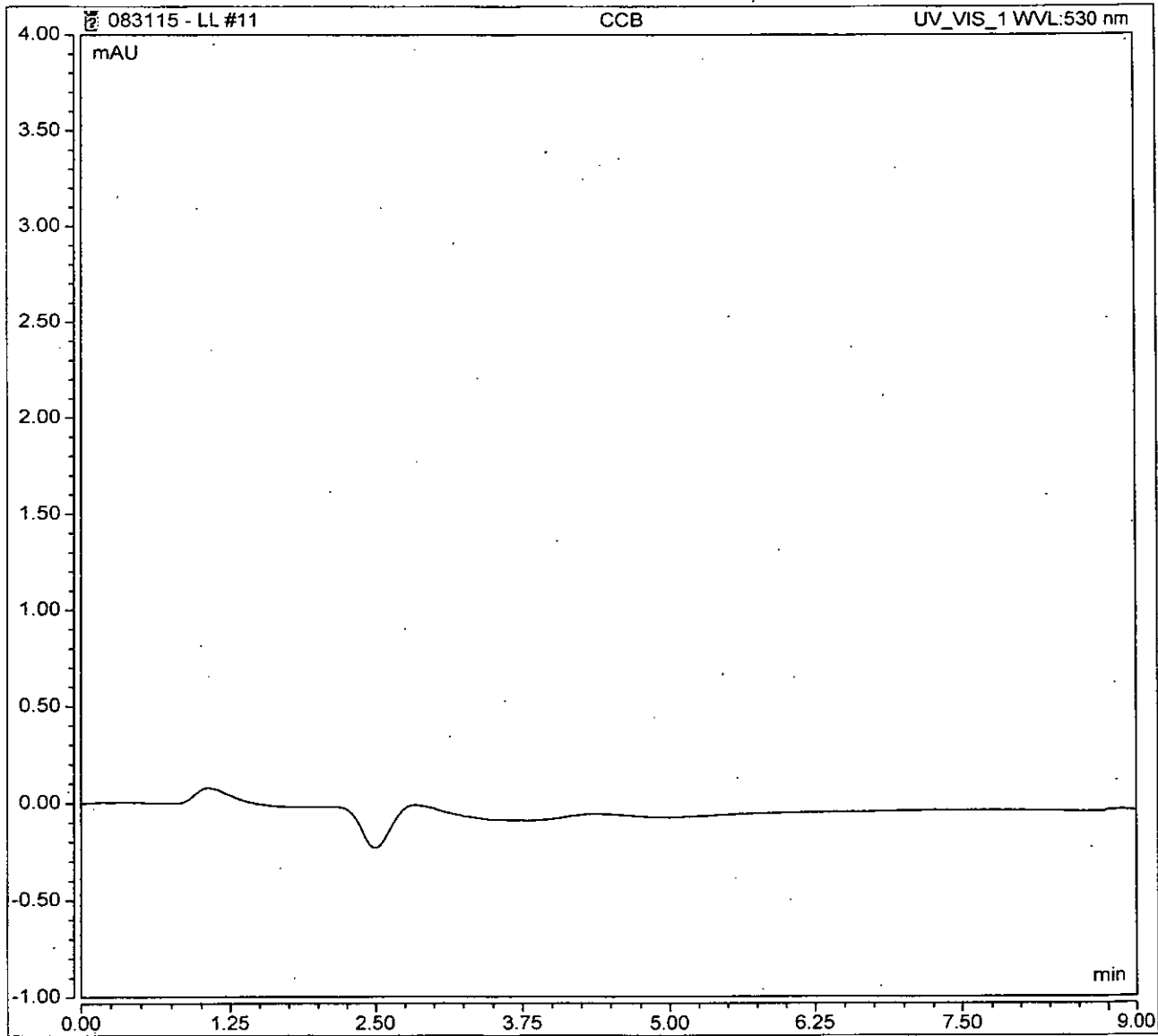
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppb
1	6.46	Cr(VI)	BMB	0.506	1.030	0.4794
TOTAL:				0.51	1.03	0.48



### Peak Integration Report

Sample Name:	CCB	Inj. Vol.:	500.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	8-080715LL	Injection Number:	11
Inj. Date / Time:	31-Aug-2015 / 10:46	Sample Comment:	218.6 LL

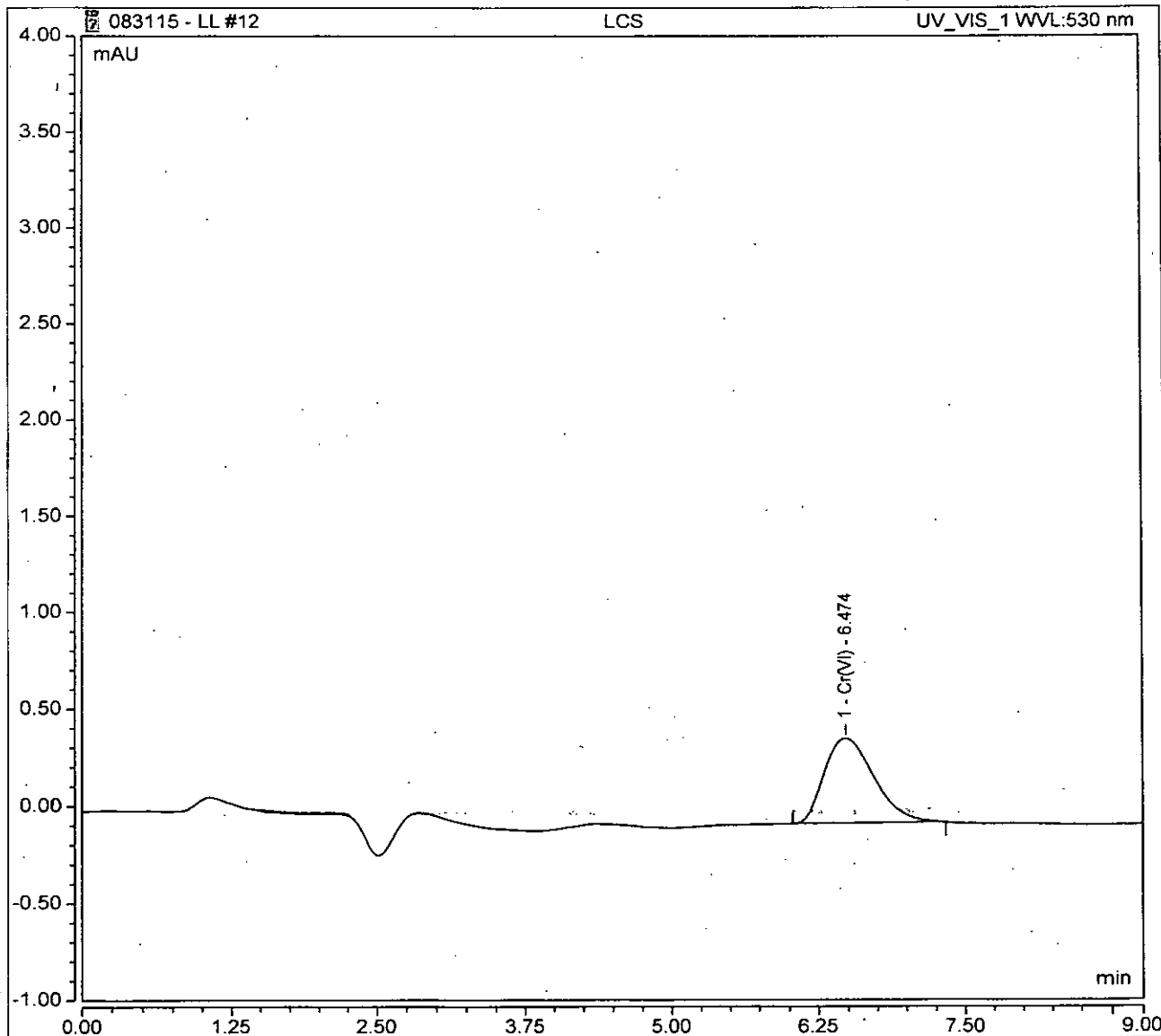
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount n.a.
TOTAL:				0.00	0.00	0.00



### Peak Integration Report

Sample Name:	LCS	Inj. Vol.:	500.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	8-080715LL	Injection Number:	12
Inj. Date / Time:	31-Aug-2015 / 10:58	Sample Comment:	218.6 LL

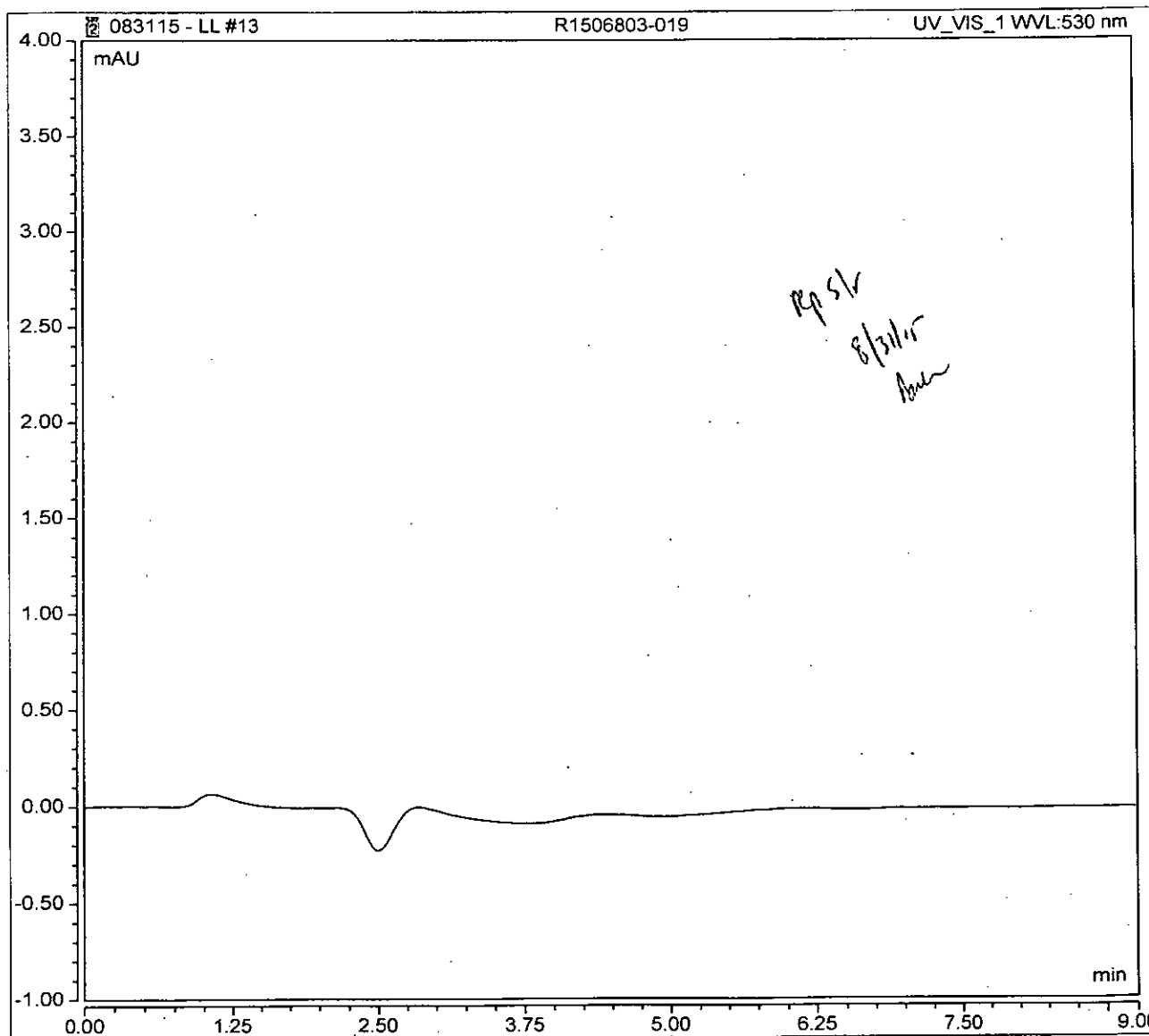
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppb
1	6.47	Cr(VI)	BMB	0.213	0.438	0.2027
TOTAL:				0.21	0.44	0.20



### Peak Integration Report

Sample Name:	R1506803-019	Inj. Vol.:	500.00
Injection Type:	Unknown	Dilution Factor:	100.0000
Processing Method:	8-080715LL	Injection Number:	13
Inj. Date / Time:	31-Aug-2015 / 11:22	Sample Comment:	218.6 LL

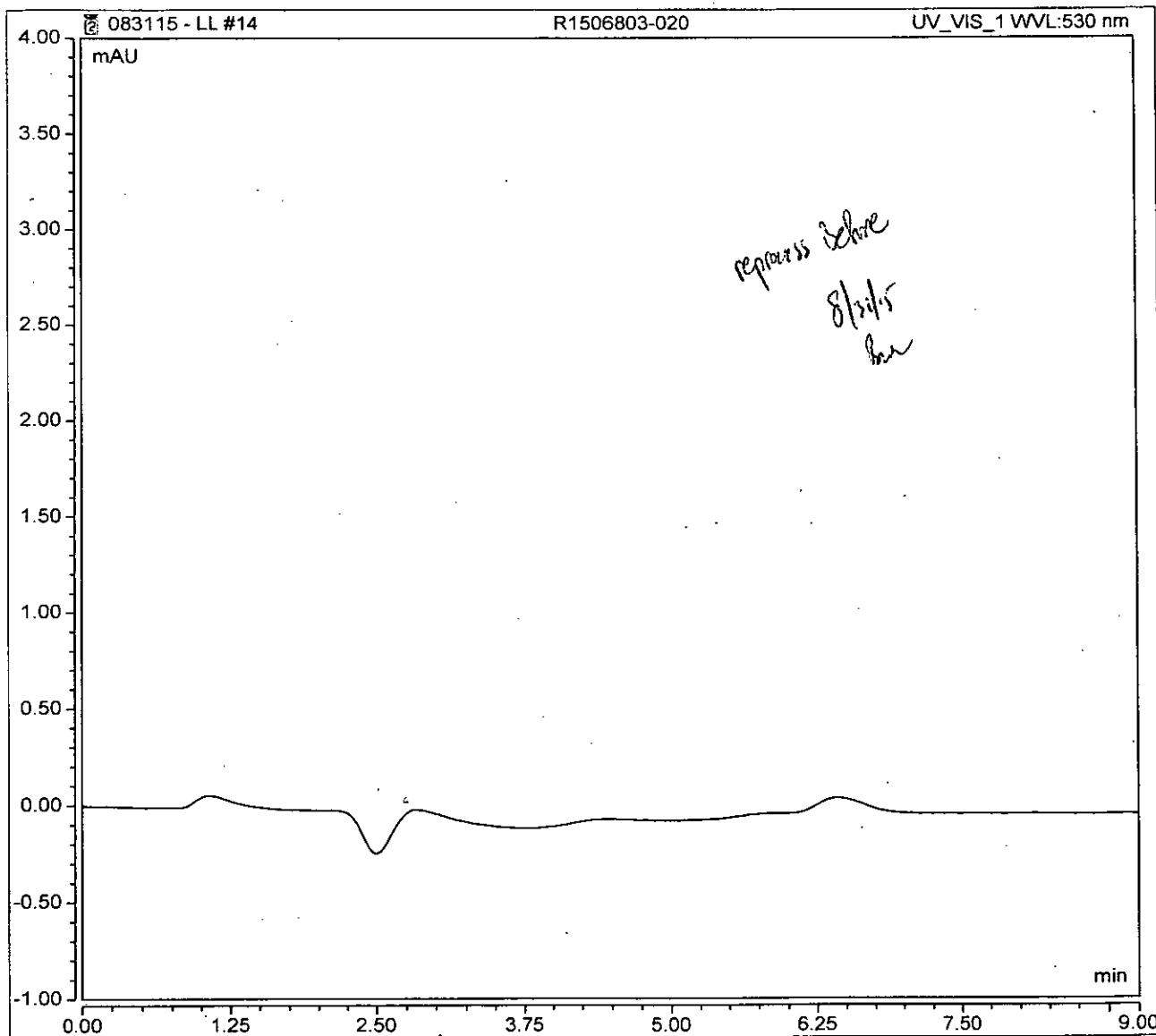
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount n.a.
TOTAL:				0.00	0.00	0.00



### Peak Integration Report

Sample Name:	R1506803-020	Inj. Vol.:	500.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	8-080715LL	Injection Number:	14
Inj. Date / Time:	31-Aug-2015 / 11:34	Sample Comment:	218.6 LL

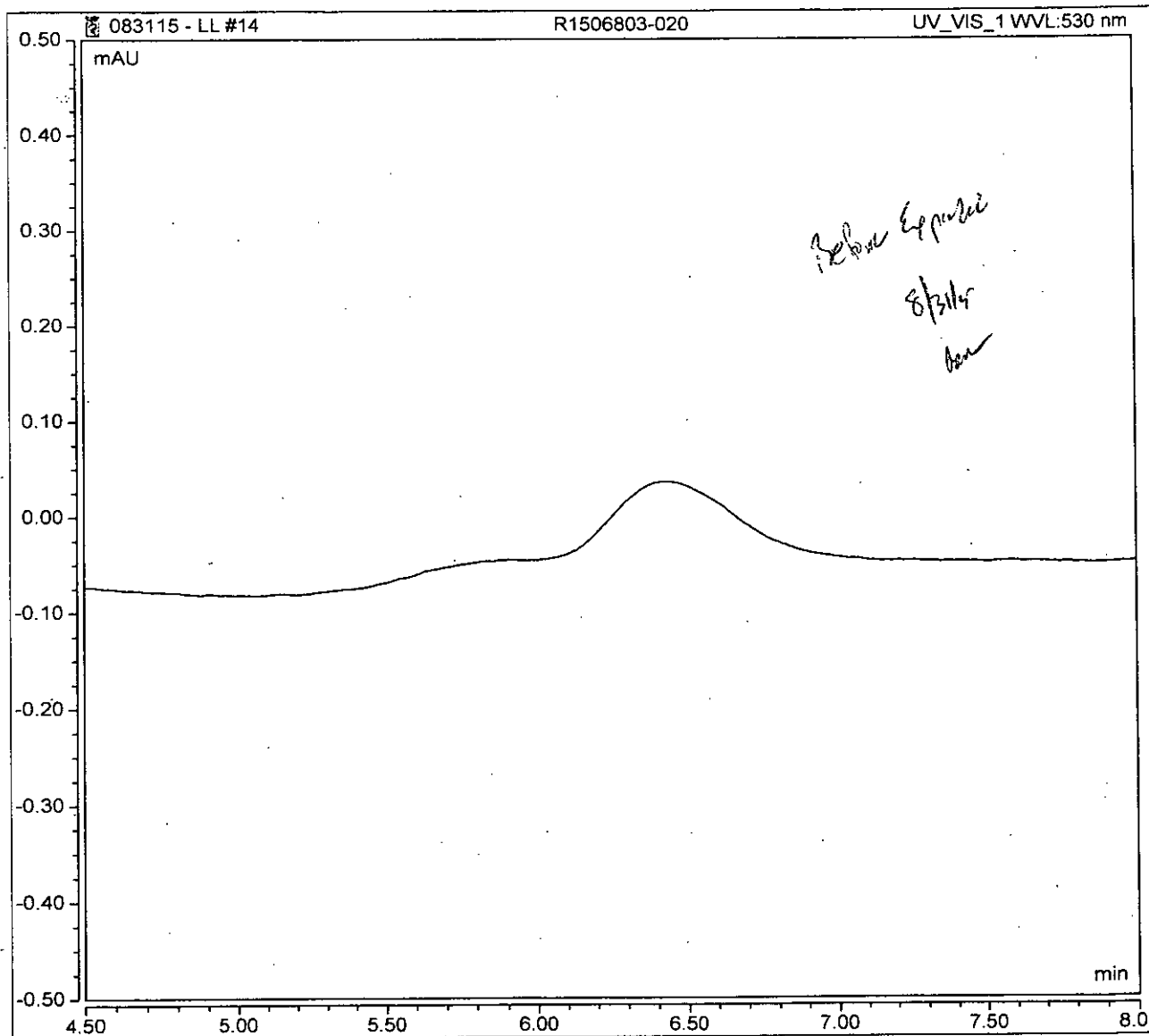
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount n.a.
TOTAL:				0.00	0.00	0.00



### Peak Integration Report

Sample Name:	R1506803-020	Inj. Vol.:	500.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	8-080715LL	Injection Number:	14
Inj. Date / Time:	31-Aug-2015 / 11:34	Sample Comment:	218.6 LL

No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount n.a.
TOTAL:				0.00	0.00	0.00

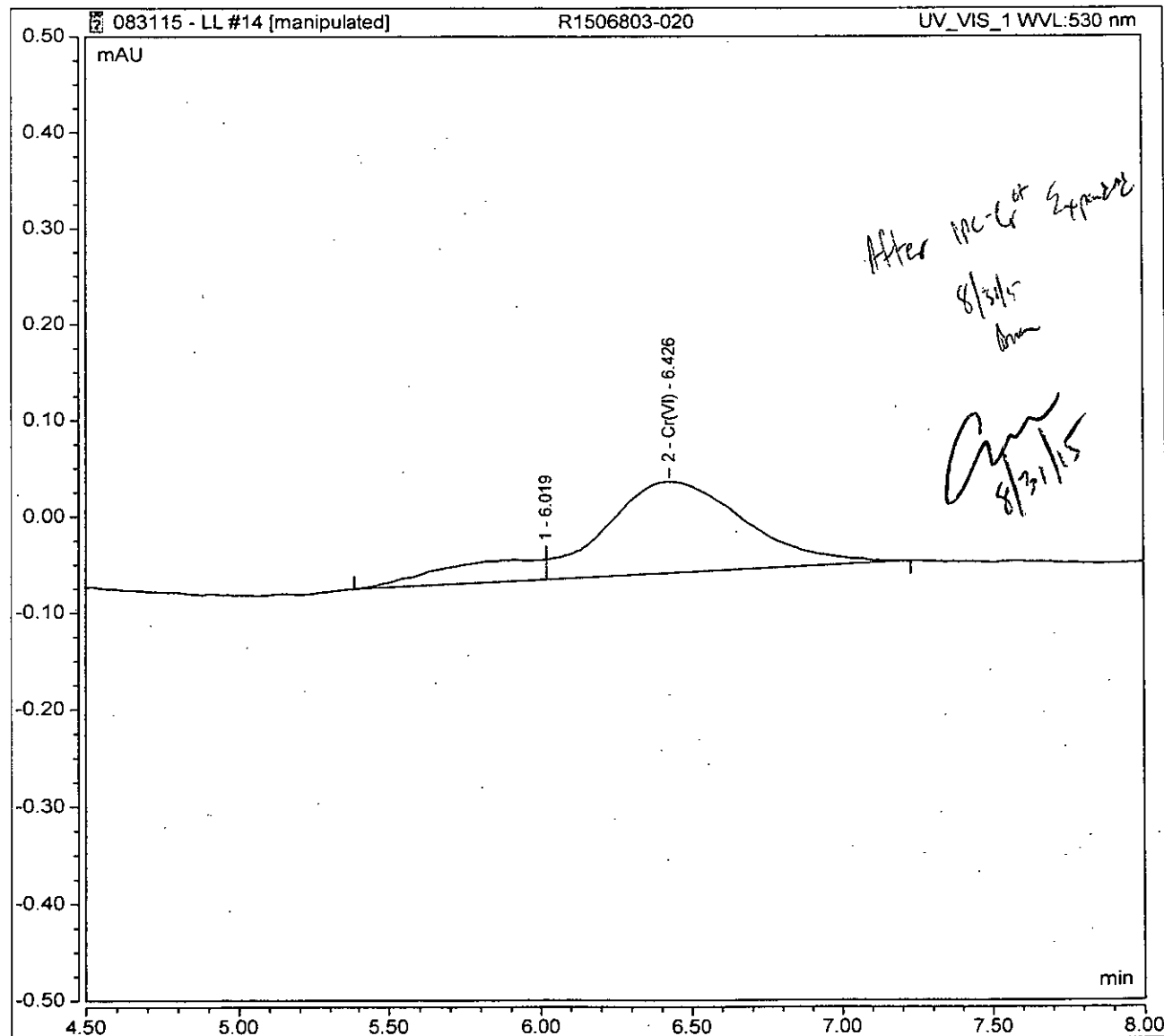




### Peak Integration Report

Sample Name:	R1506803-020	Inj. Vol.:	500.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	8-080715LL	Injection Number:	14
Inj. Date / Time:	31-Aug-2015 / 11:34	Sample Comment:	218.6 LL

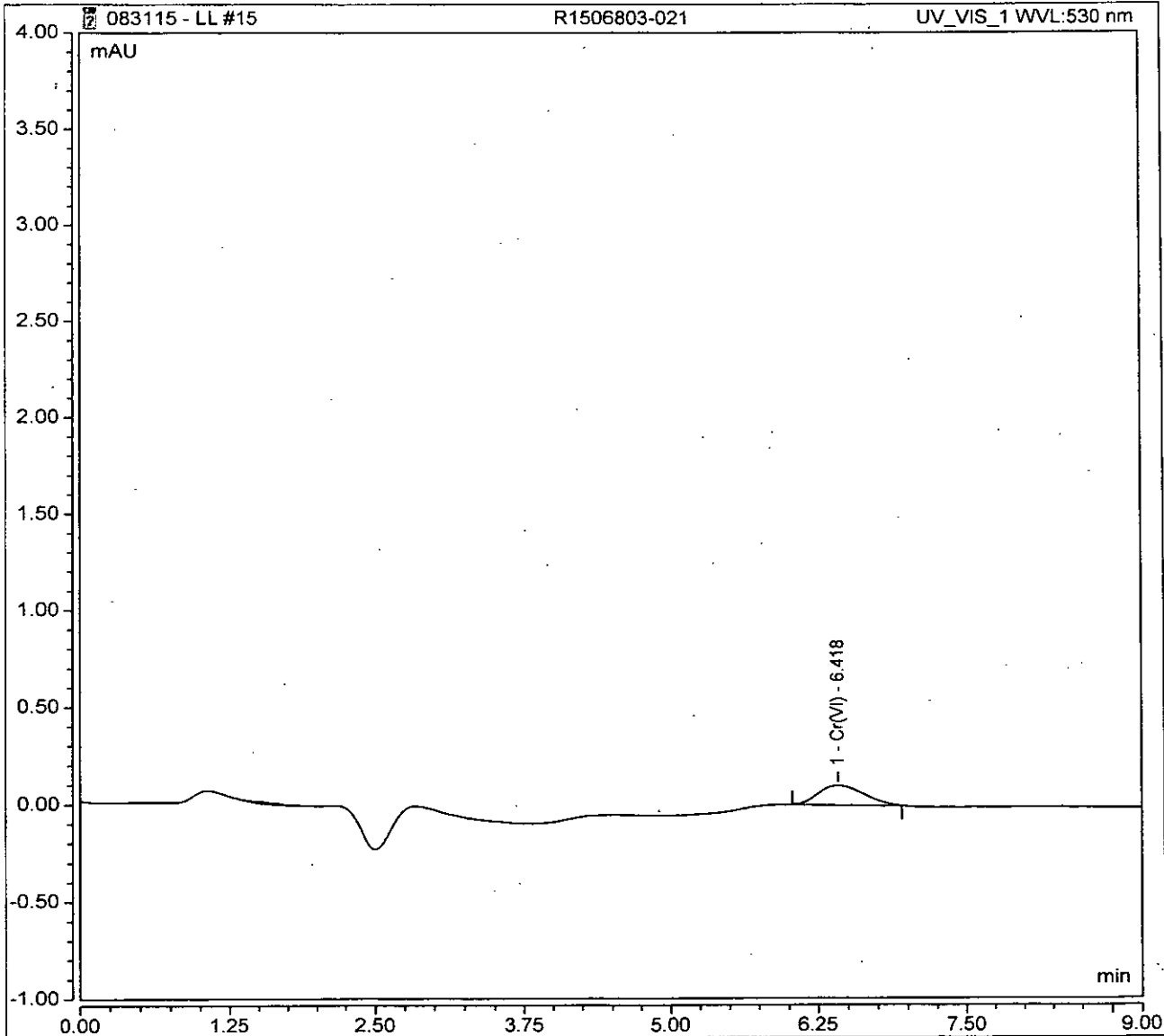
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppb
2	6.43	Cr(VI)	MB*	0.050	0.095	0.0489
TOTAL:				0.05	0.10	0.05



### Peak Integration Report

Sample Name:	R1506803-021	Inj. Vol.:	500.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	8-080715LL	Injection Number:	15
Inj. Date / Time:	31-Aug-2015 / 11:46	Sample Comment:	218.6 LL

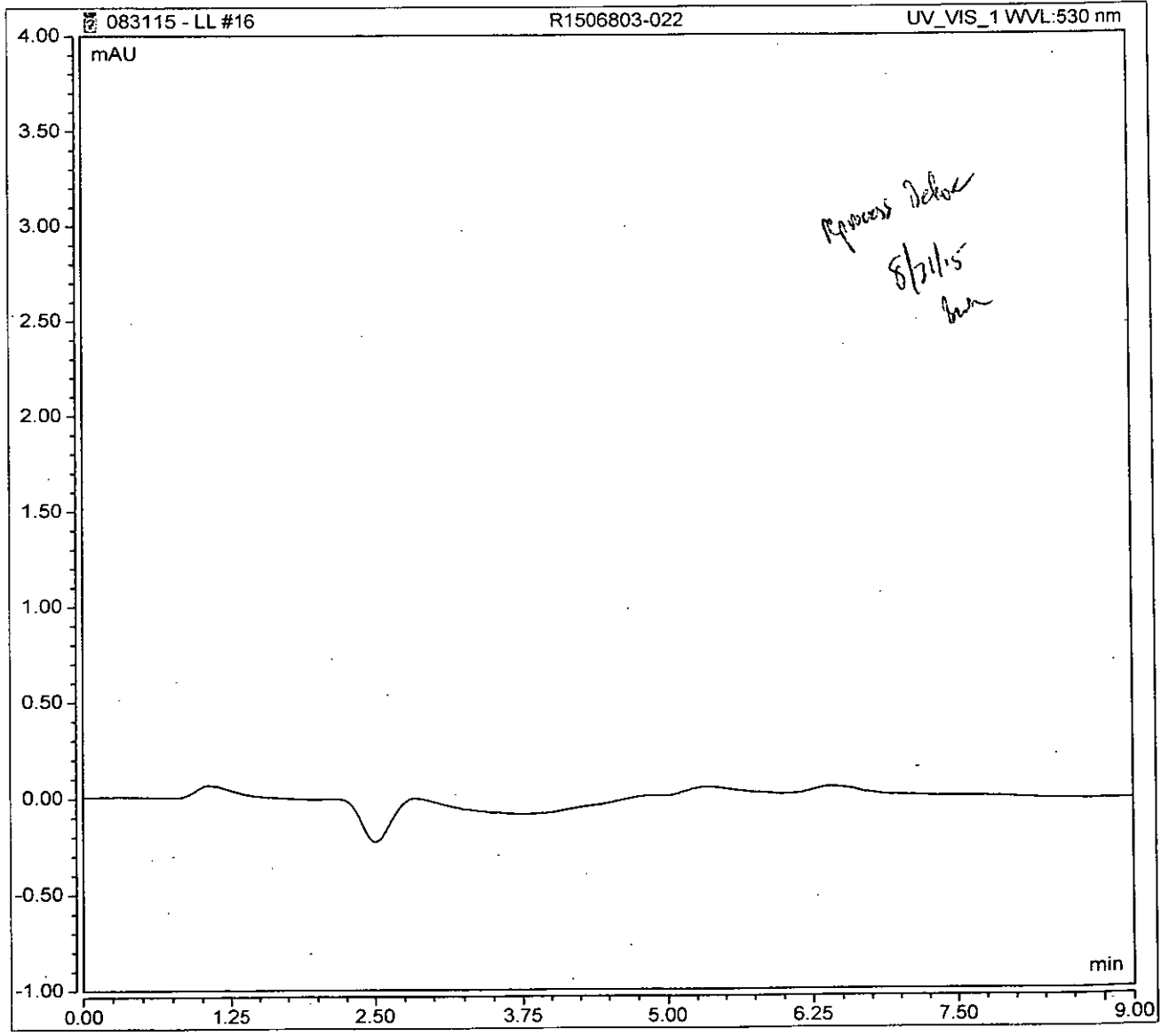
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppb
1	6.42	Cr(VI)	BMB	0.044	0.100	0.0429
TOTAL:				0.04	0.10	0.04



### Peak Integration Report

Sample Name:	R1506803-022	Inj. Vol.:	500.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	8-080715LL	Injection Number:	16
Inj. Date / Time:	31-Aug-2015 / 11:58	Sample Comment:	218.6 LL

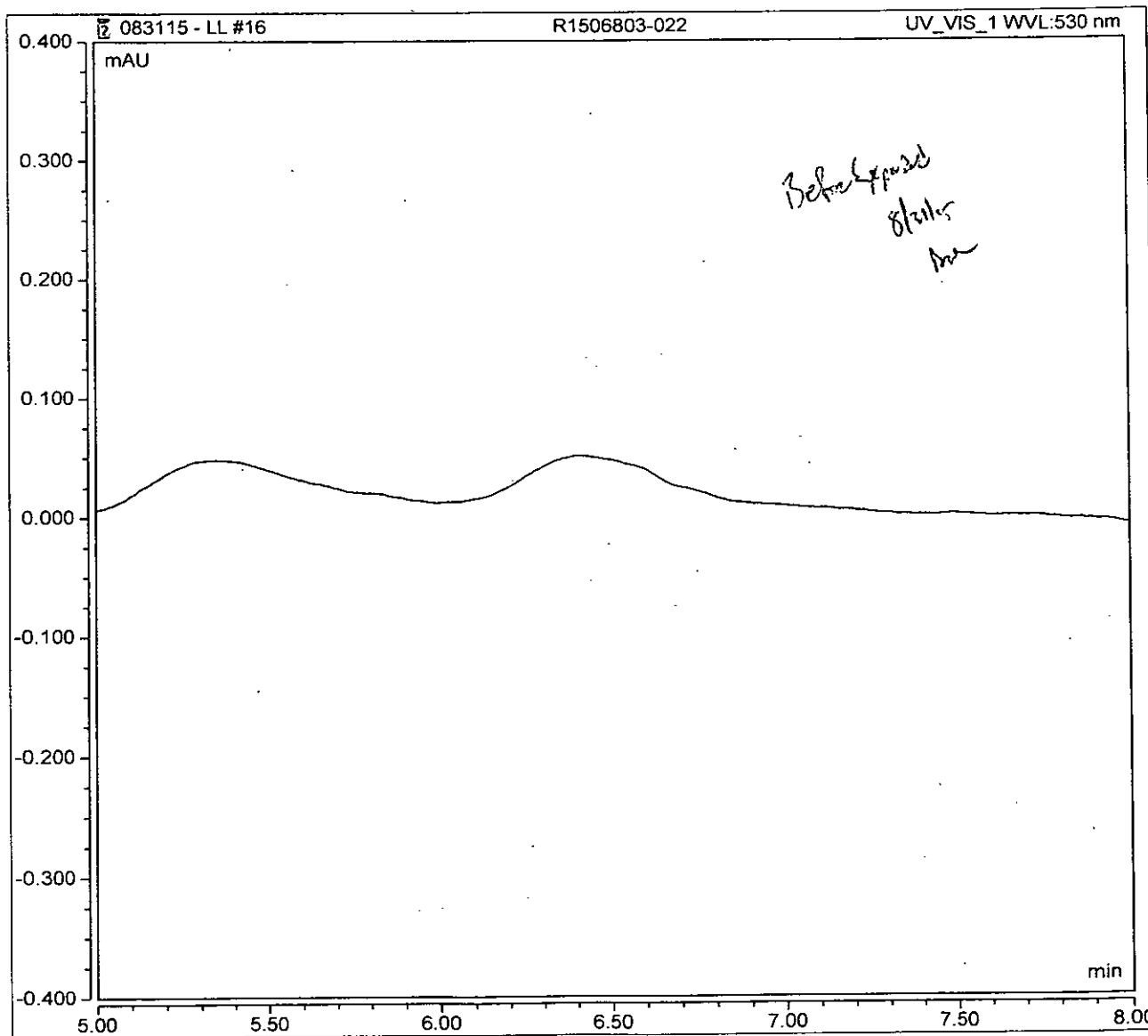
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount n.a.
TOTAL:				0.00	0.00	0.00



### Peak Integration Report

Sample Name:	R1506803-022	Inj. Vol.:	500.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	8-080715LL	Injection Number:	16
Inj. Date / Time:	31-Aug-2015 / 11:58	Sample Comment:	218.6 LL

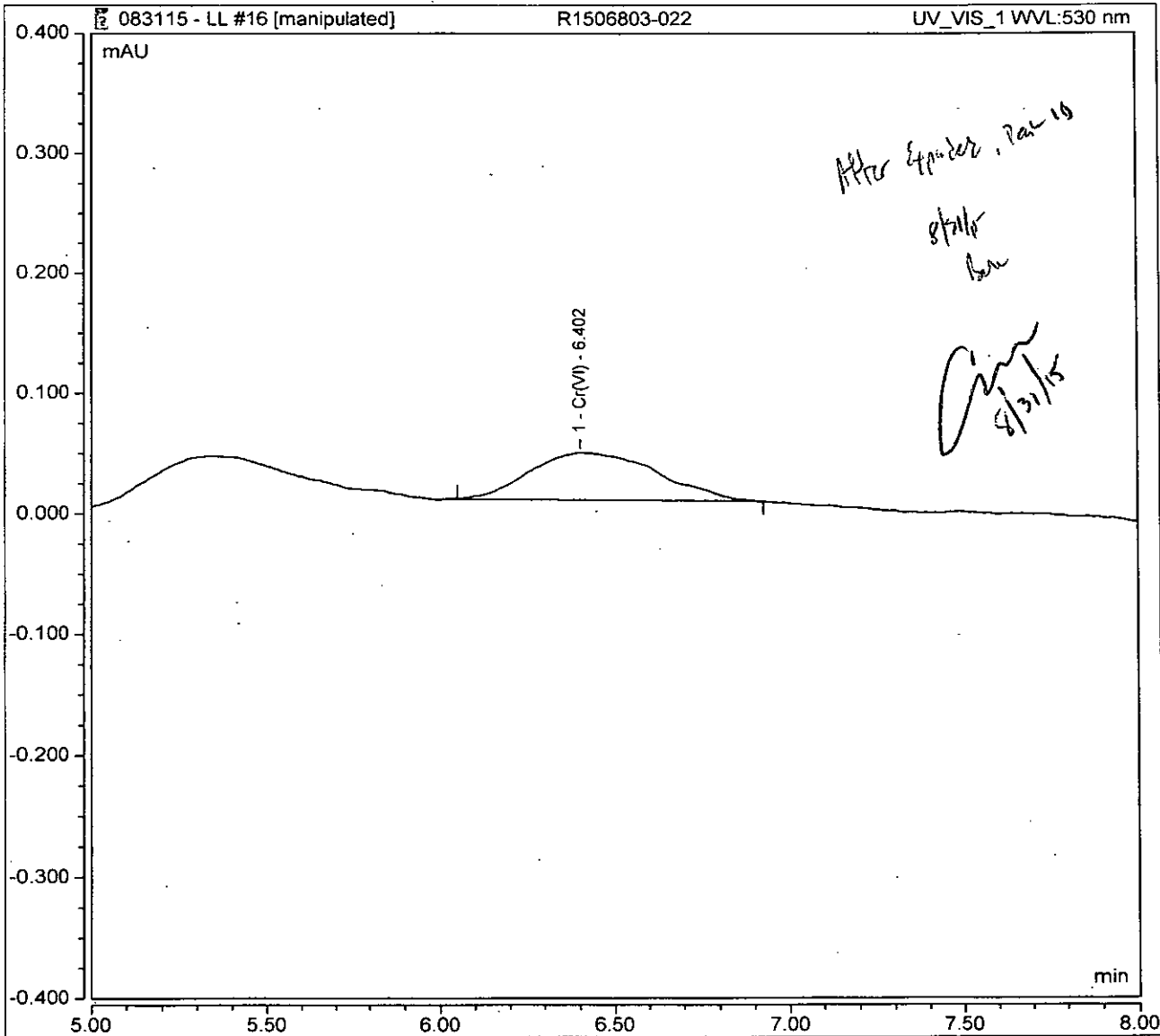
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount n.a.
TOTAL:				0.00	0.00	0.00



### Peak Integration Report

Sample Name:	R1506803-022	Inj. Vol.:	500.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	8-080715LL	Injection Number:	16
Inj. Date / Time:	31-Aug-2015 / 11:58	Sample Comment:	218.6 LL

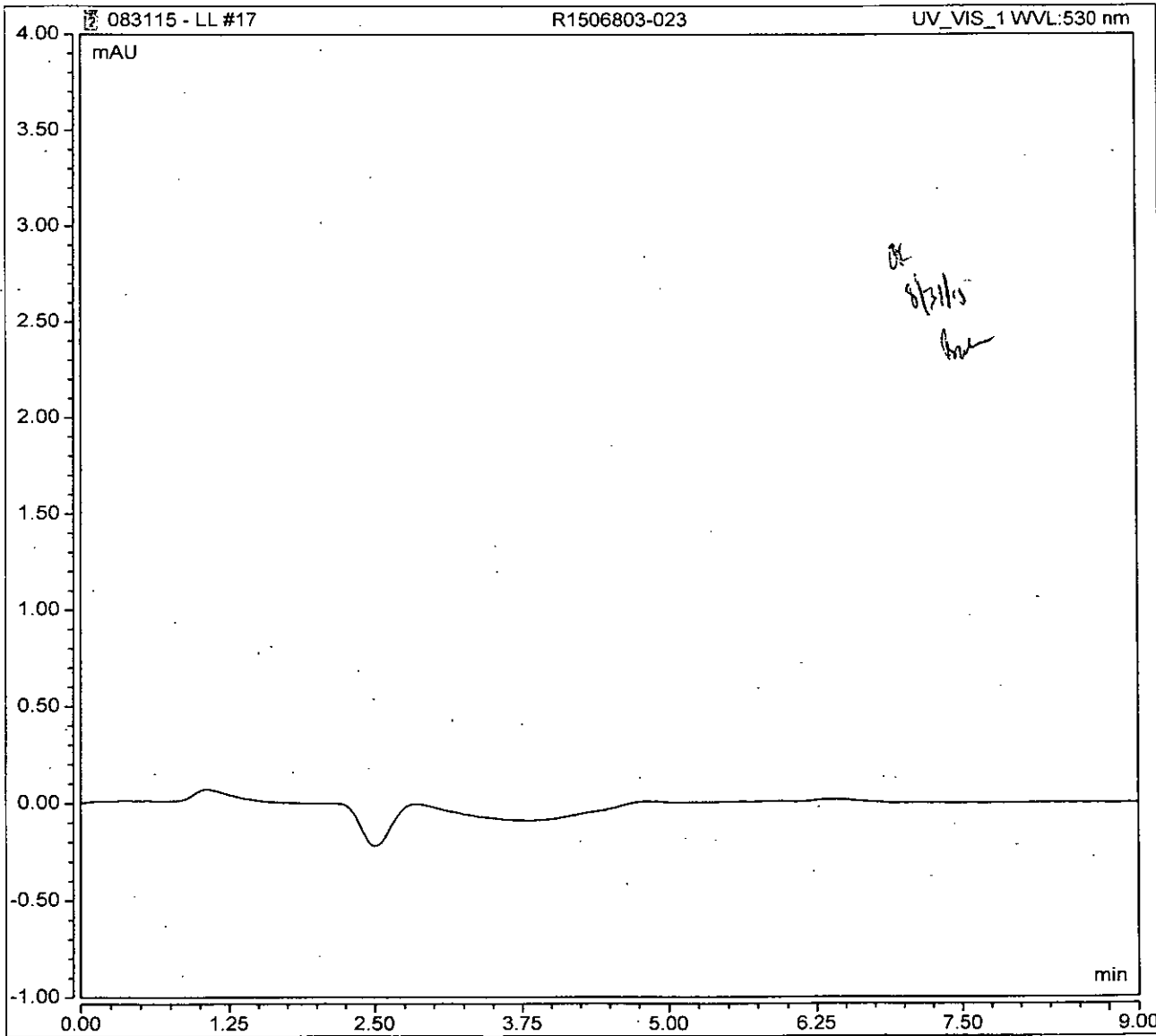
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppb
1	6.40	Cr(VI)	BMB*	0.017	0.039	0.0169
TOTAL:				0.02	0.04	0.02



### Peak Integration Report

Sample Name:	R1506803-023	Inj. Vol.:	500.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	8-080715LL	Injection Number:	17
Inj. Date / Time:	31-Aug-2015 / 12:10	Sample Comment:	218.6 LL

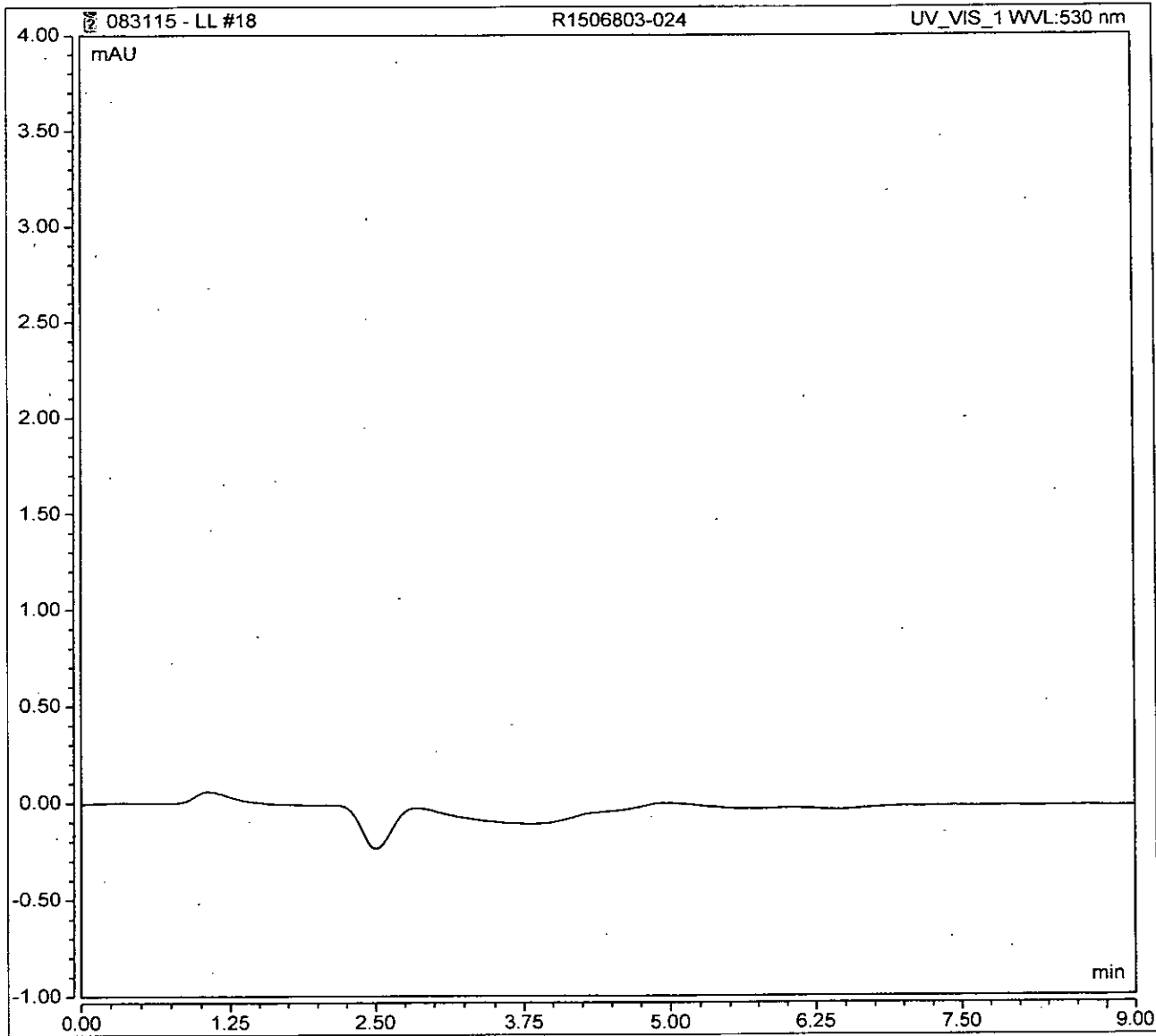
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount
TOTAL:				0.00	0.00	0.00



### Peak Integration Report

Sample Name:	R1506803-024	Inj. Vol.:	500.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	8-080715LL	Injection Number:	18
Inj. Date / Time:	31-Aug-2015 / 12:22	Sample Comment:	218.6 LL

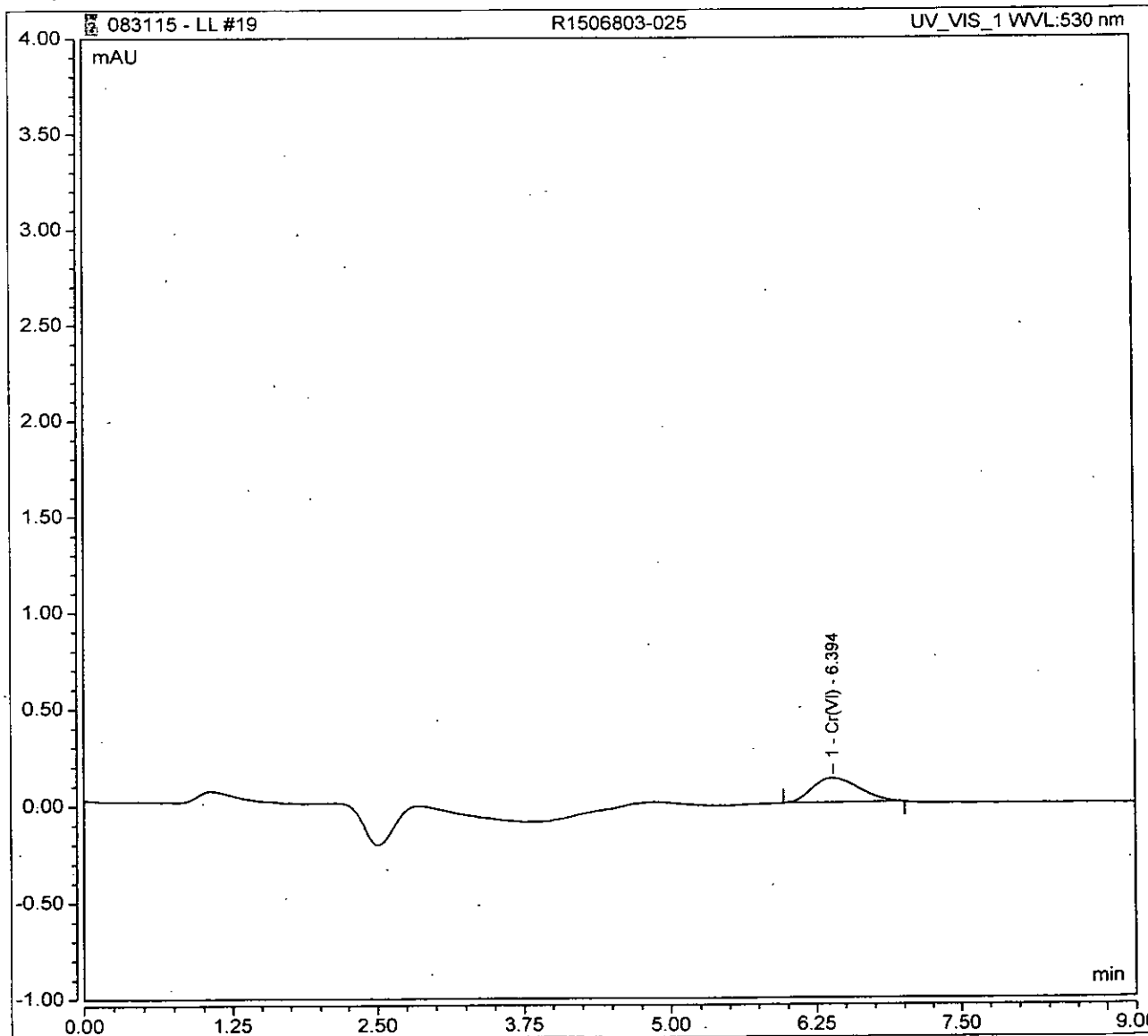
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount n.a.
TOTAL:				0.00	0.00	0.00



### Peak Integration Report

Sample Name:	R1506803-025	Inj. Vol.:	500.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	8-080715LL	Injection Number:	19
Inj. Date / Time:	31-Aug-2015 / 12:34	Sample Comment:	218.6 LL

No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppb
1	6.39	Cr(VI)	BMB	0.060	0.127	0.0579
TOTAL:				0.06	0.13	0.06

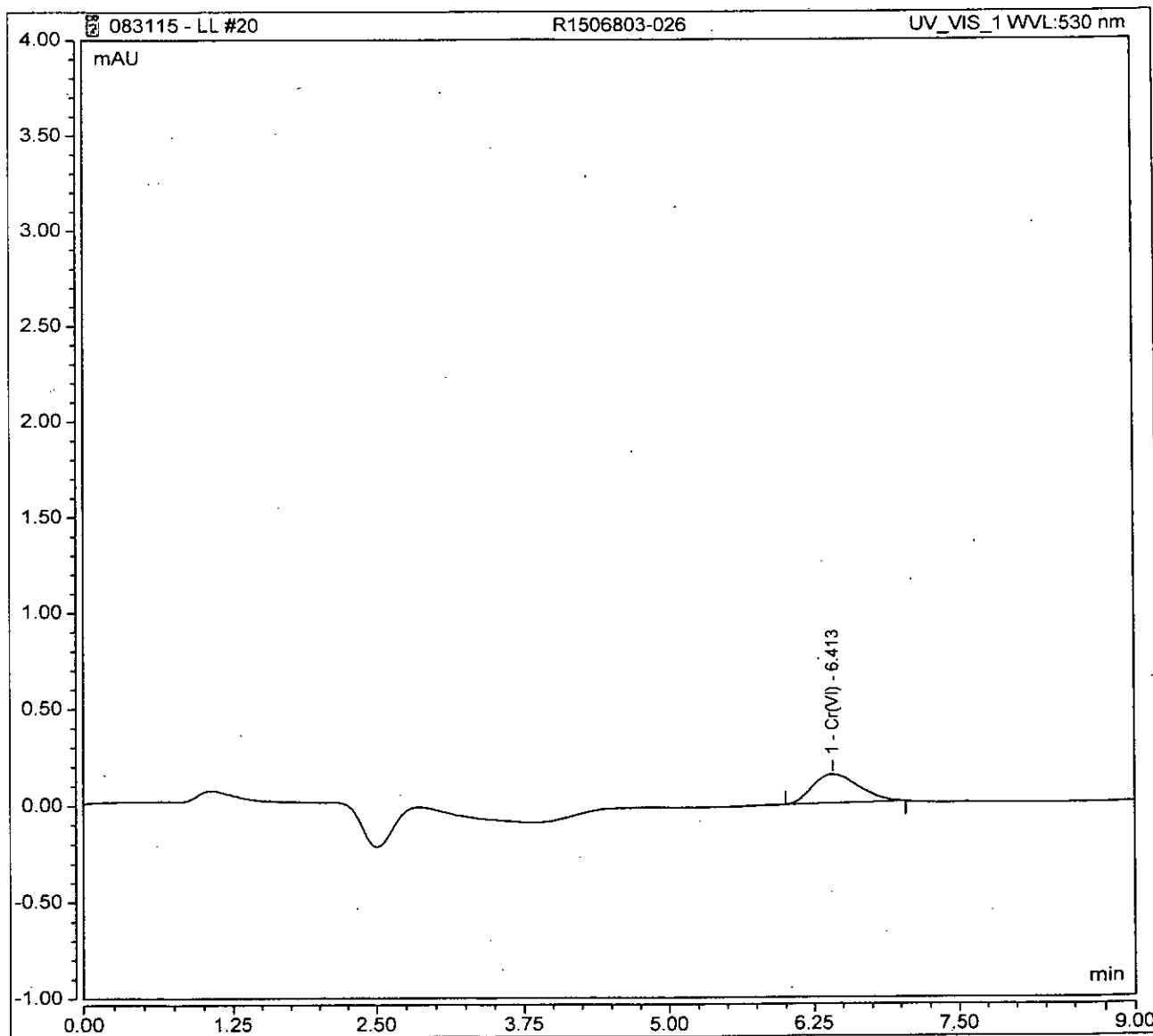




### Peak Integration Report

Sample Name:	R1506803-026	Inj. Vol.:	500.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	8-080715LL	Injection Number:	20
Inj. Date / Time:	31-Aug-2015 / 12:46	Sample Comment:	218.6 LL

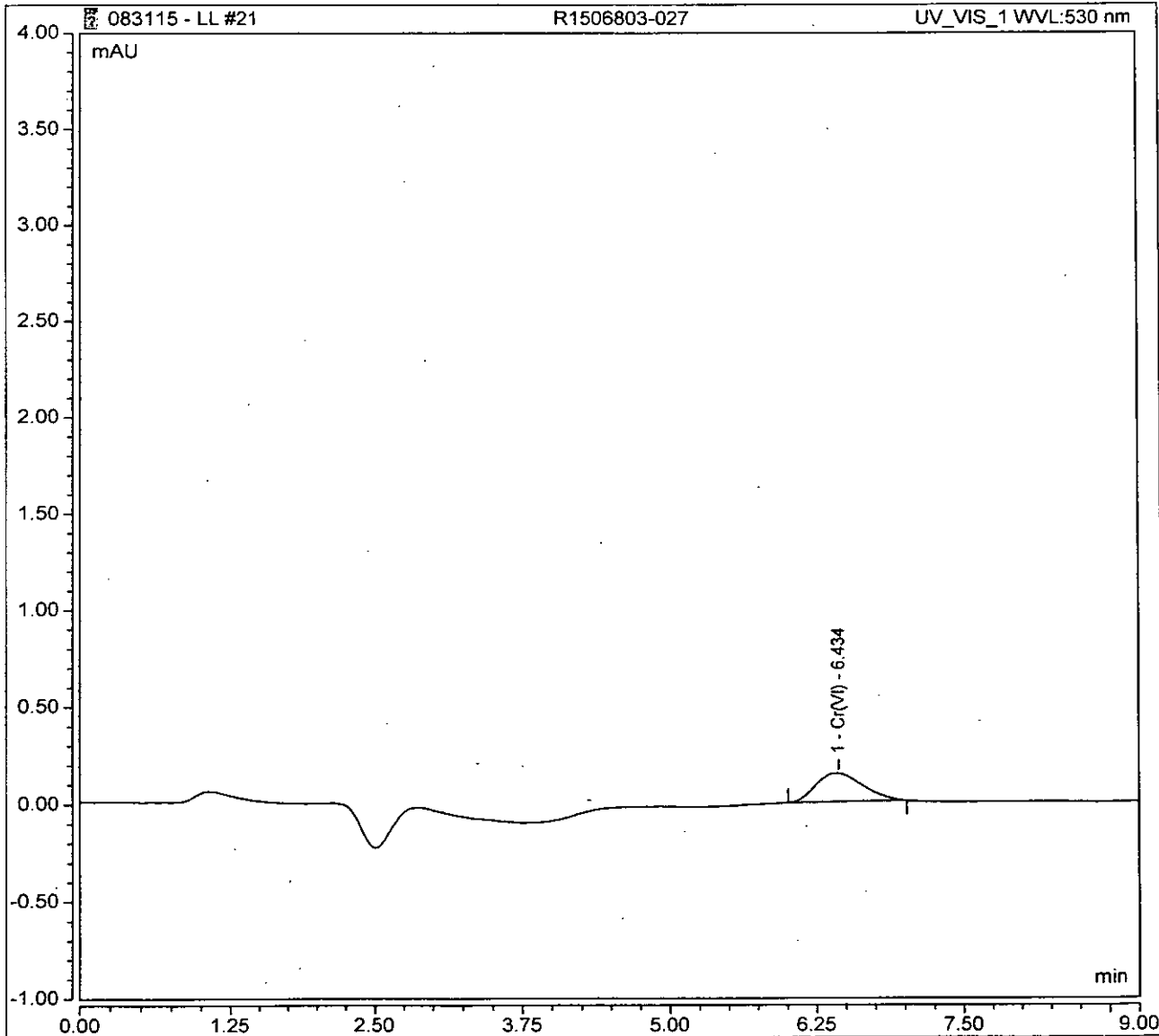
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppb
1	6.41	Cr(VI)	BMB	0.070	0.150	0.0677
TOTAL:				0.07	0.15	0.07



### Peak Integration Report

Sample Name:	R1506803-027	Inj. Vol.:	500.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	8-080715LL	Injection Number:	21
Inj. Date / Time:	31-Aug-2015 / 12:58	Sample Comment:	218.6 LL

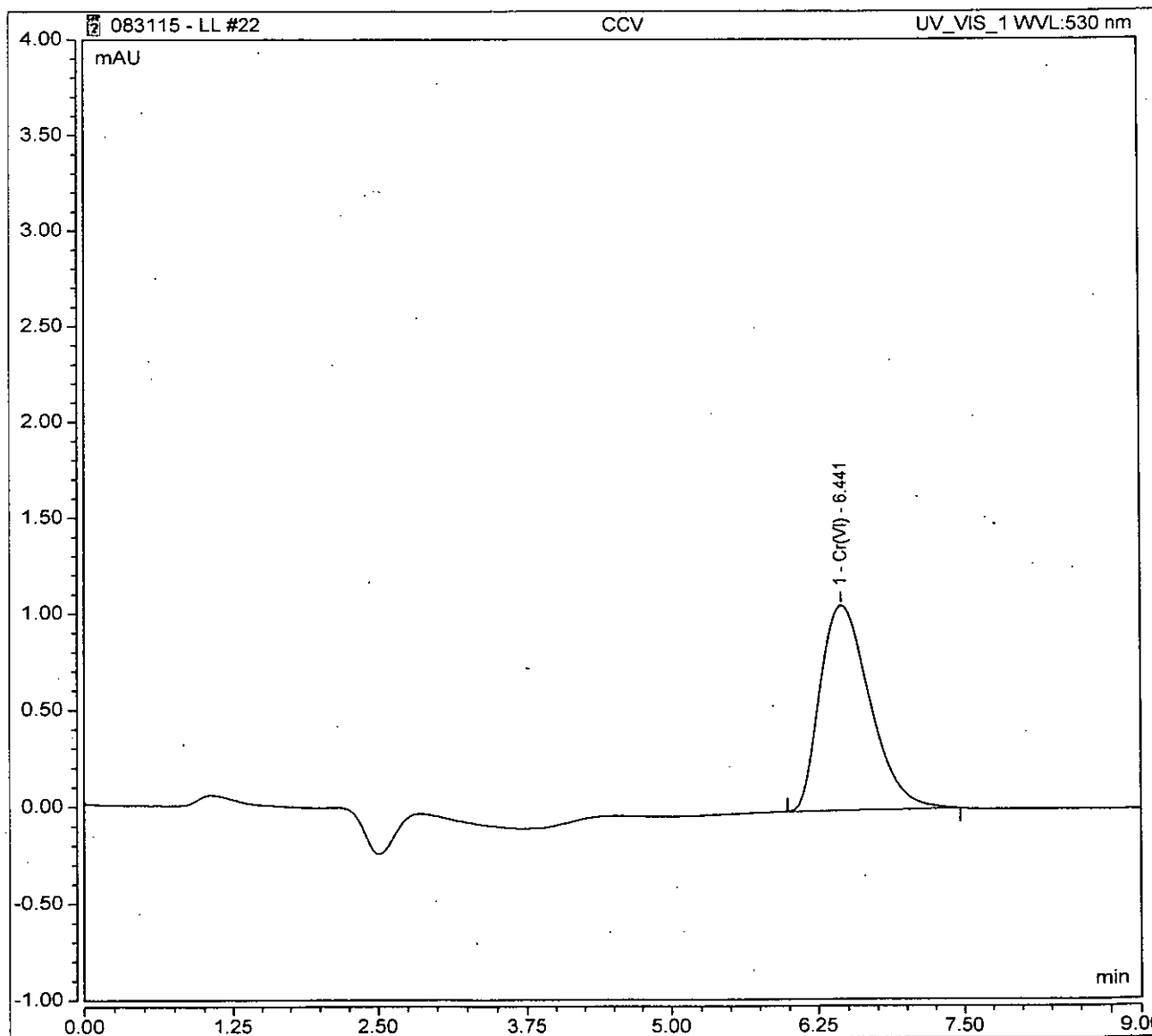
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppb
1	6.43	Cr(VI)	BMB	0.069	0.147	0.0661
TOTAL:				0.07	0.15	0.07



### Peak Integration Report

Sample Name:	CCV	Inj. Vol.:	500.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	8-080715LL	Injection Number:	22
Inj. Date / Time:	31-Aug-2015 / 13:10	Sample Comment:	218.6 LL

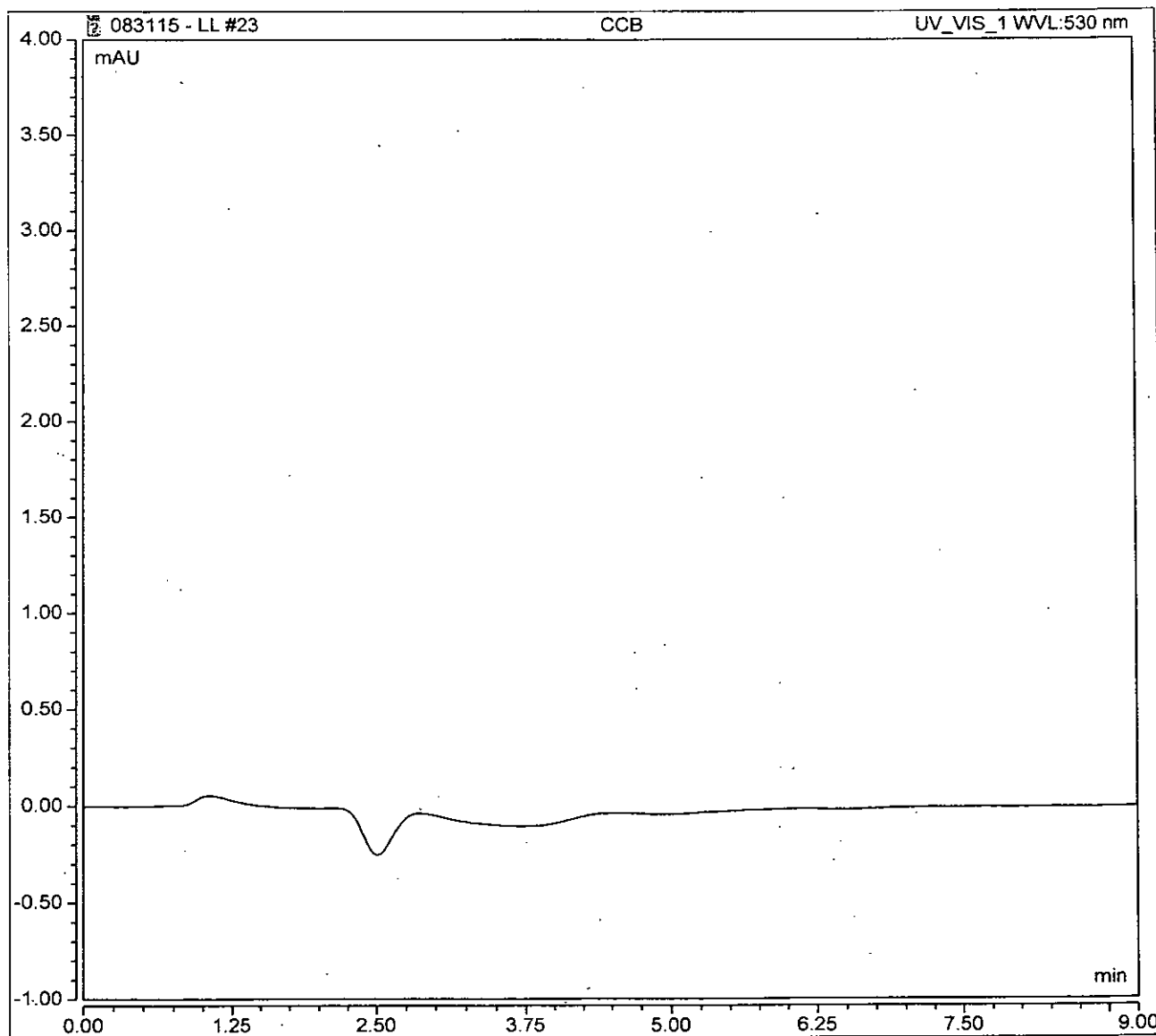
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppb
1	6.44	Cr(VI)	BMB	0.521	1.062	0.4932
TOTAL:				0.52	1.06	0.49



### Peak Integration Report

Sample Name:	CCB	Inj. Vol.:	500.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	8-080715LL	Injection Number:	23
Inj. Date / Time:	31-Aug-2015 / 13:22	Sample Comment:	218.6 LL

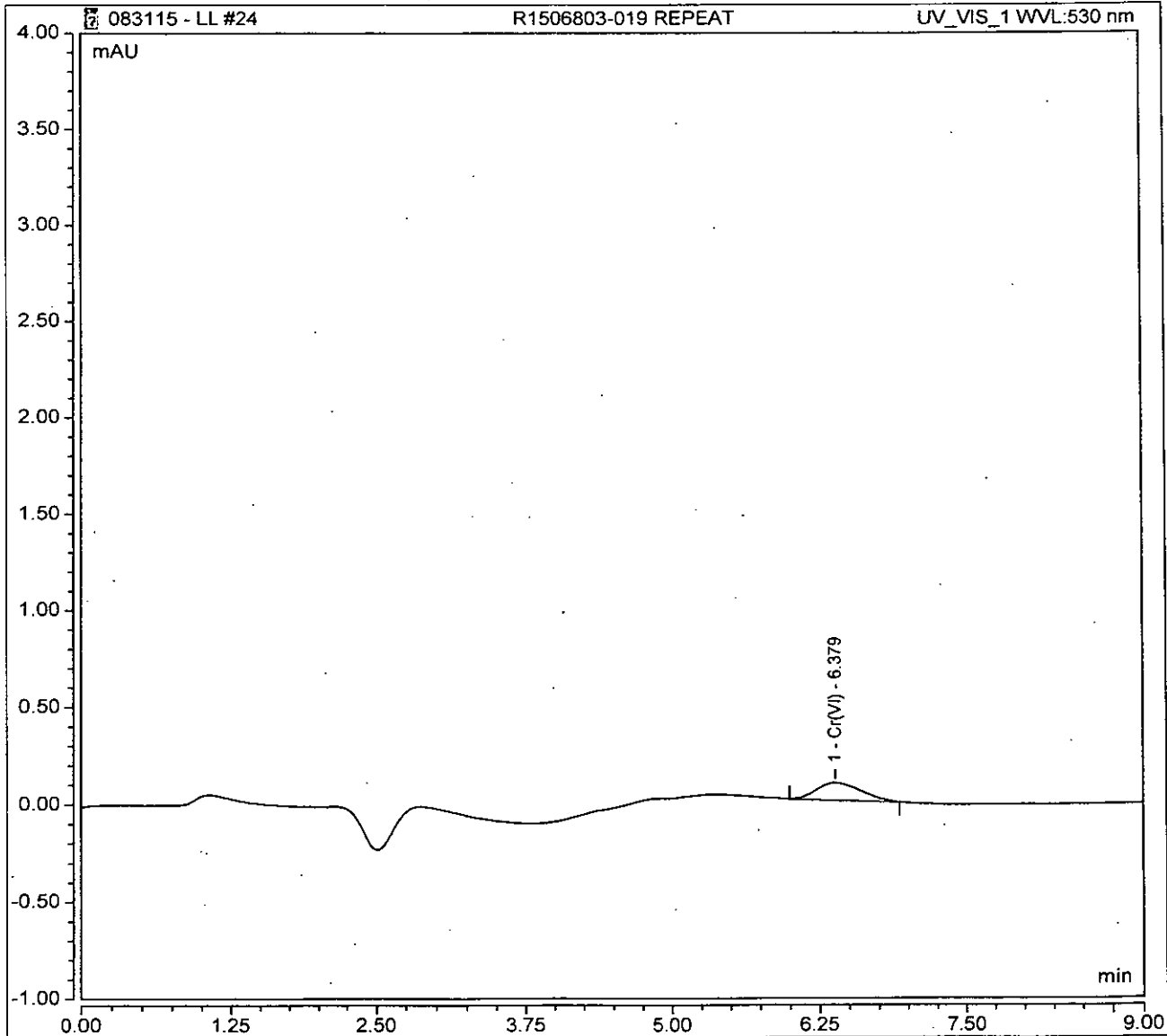
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount n.a.
TOTAL:				0.00	0.00	0.00



### Peak Integration Report

Sample Name:	R1506803-019 REPEAT	Inj. Vol.:	500.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	8-080715LL	Injection Number:	24
Inj. Date / Time:	31-Aug-2015 / 13:34	Sample Comment:	218.6 LL

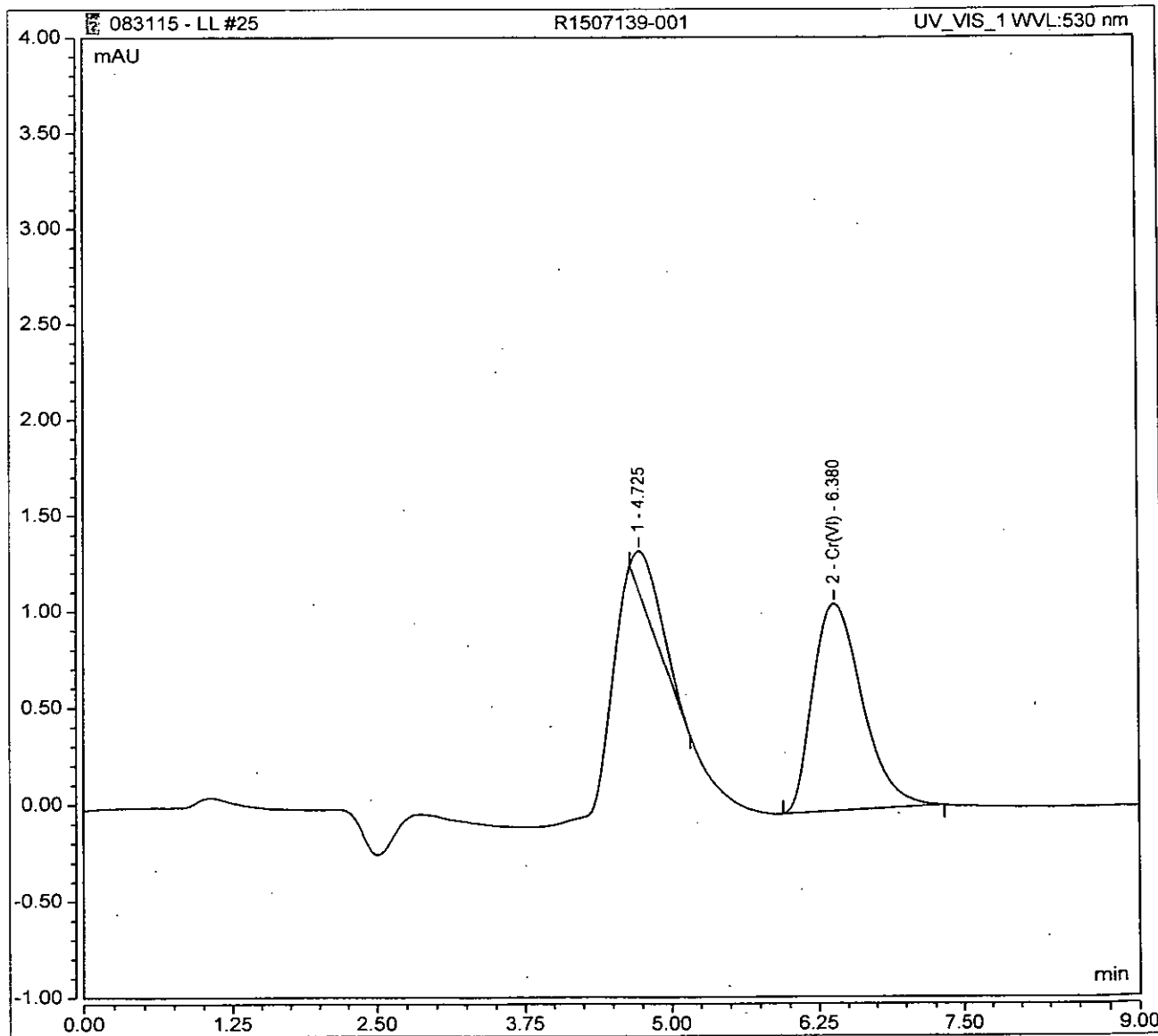
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppb
1	6.38	Cr(VI)	BMB	0.039	0.090	0.0383
TOTAL:				0.04	0.09	0.04



### Peak Integration Report

Sample Name:	R1507139-001	Inj. Vol.:	500.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	8-080715LL	Injection Number:	25
Inj. Date / Time:	31-Aug-2015 / 13:46	Sample Comment:	218.6 LL

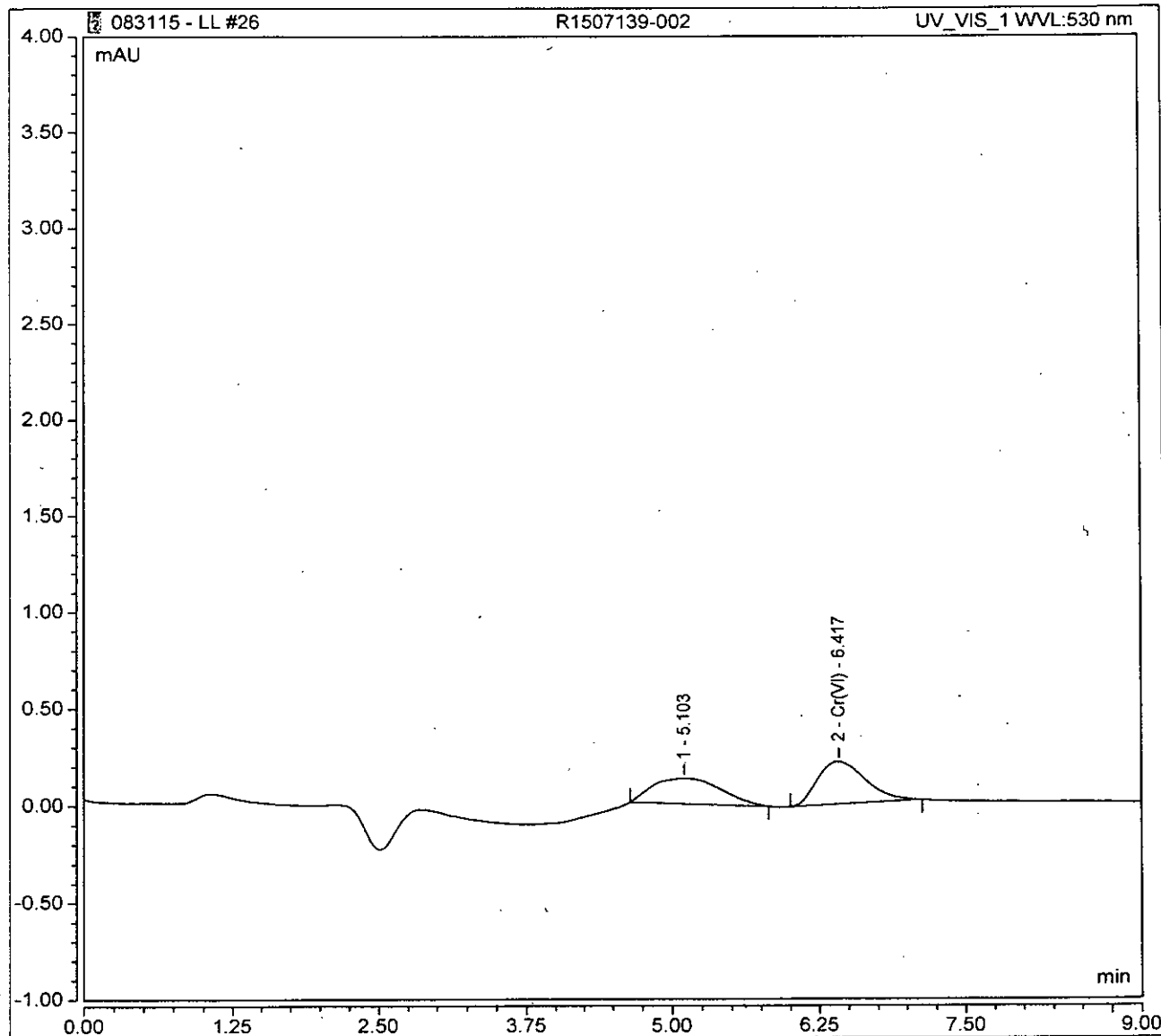
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppb
2	6.38	Cr(VI)	BMB	0.530	1.075	0.5020
TOTAL:				0.53	1.07	0.50



### Peak Integration Report

Sample Name:	R1507139-002	Inj. Vol.:	500.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	8-080715LL	Injection Number:	26
Inj. Date / Time:	31-Aug-2015 / 13:58	Sample Comment:	218.6 LL

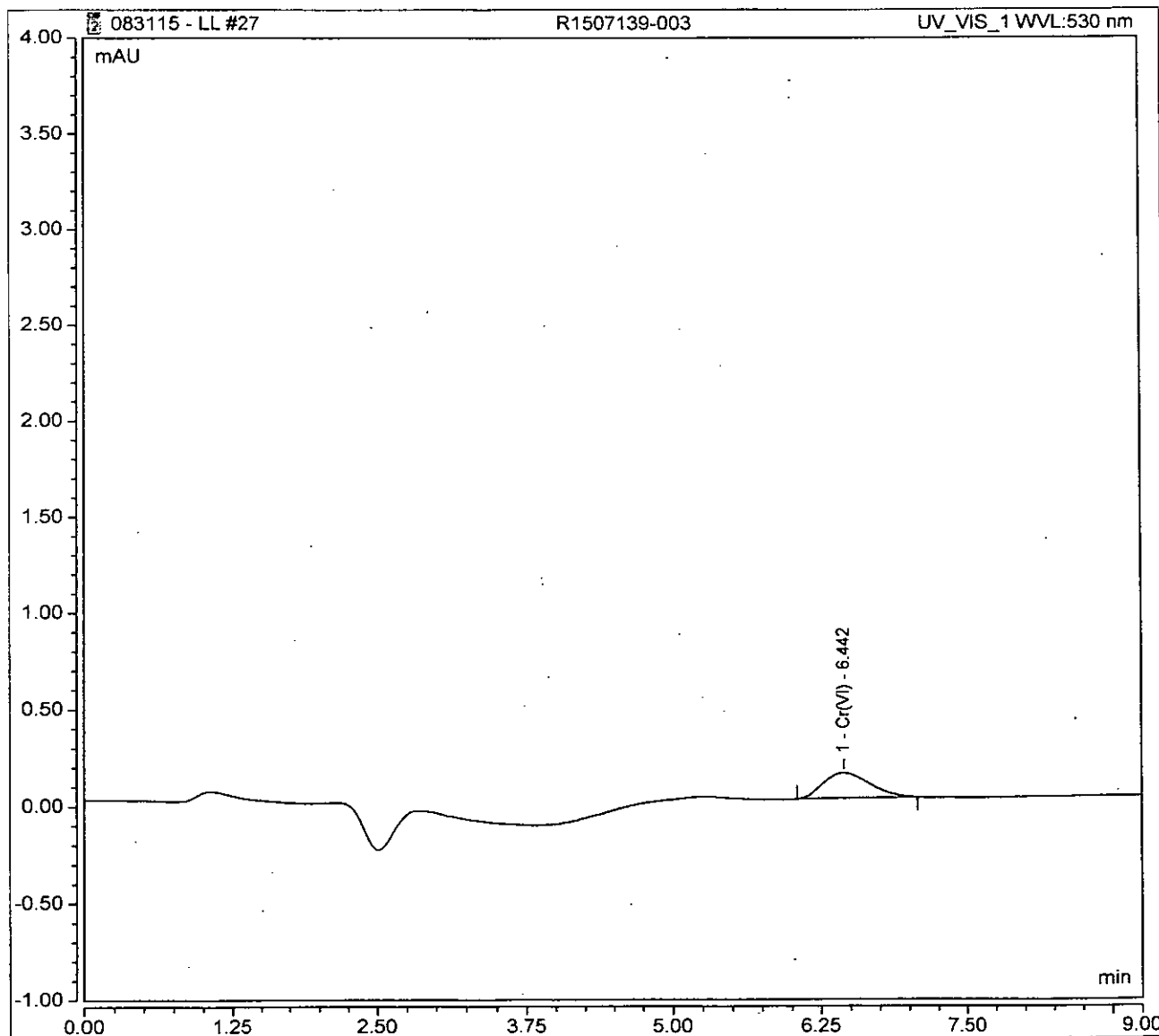
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppb
2	6.42	Cr(VI)	BMB	0.106	0.220	0.1014
TOTAL:				0.11	0.22	0.10



### Peak Integration Report

Sample Name:	R1507139-003	Inj. Vol.:	500.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	8-080715LL	Injection Number:	27
Inj. Date / Time:	31-Aug-2015 / 14:10	Sample Comment:	218.6 LL

No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppb
1	6.44	Cr(VI)	BMB	0.061	0.132	0.0589
TOTAL:				0.06	0.13	0.06

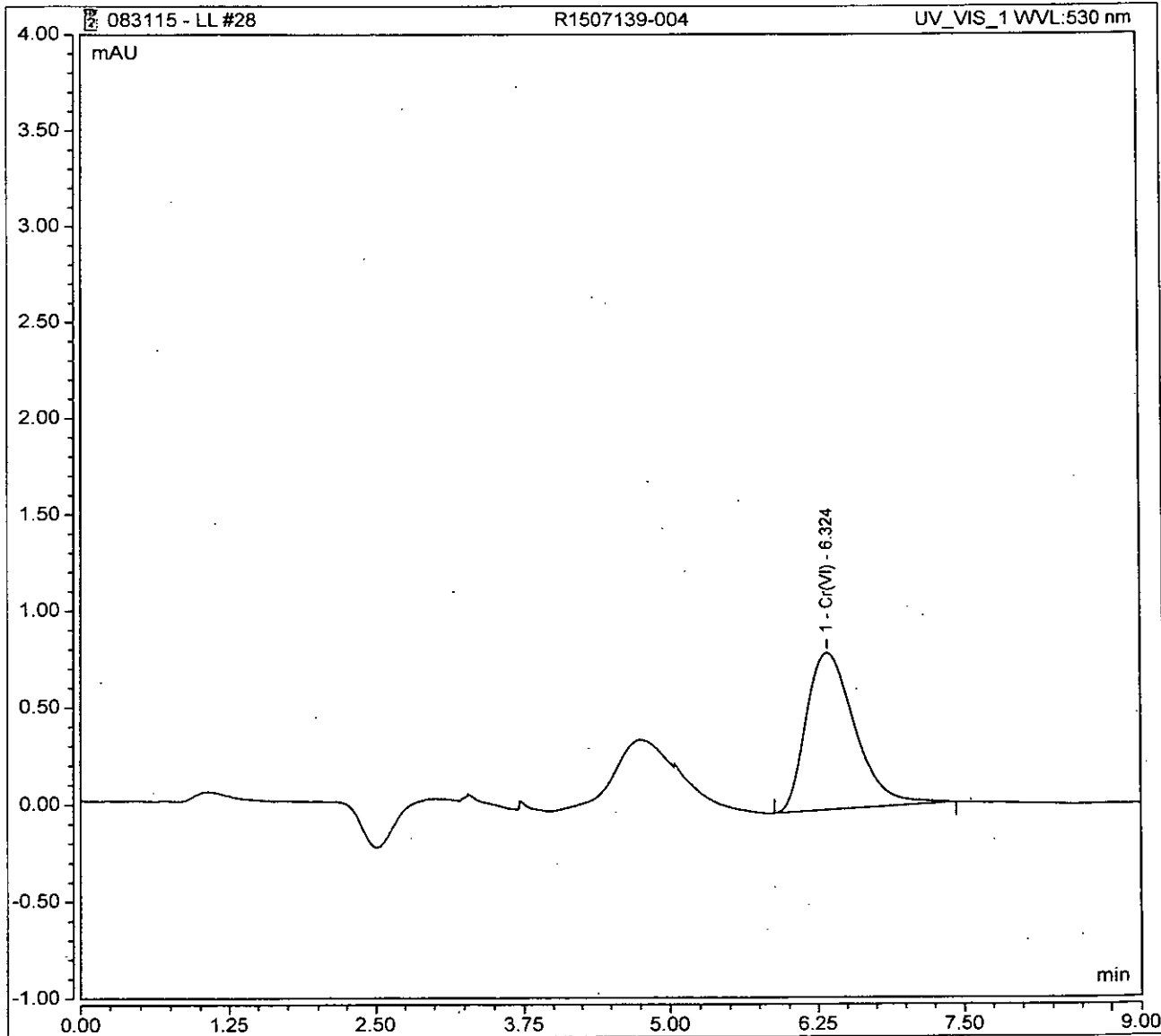




### Peak Integration Report

Sample Name:	R1507139-004	Inj. Vol.:	500.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	8-080715LL	Injection Number:	28
Inj. Date / Time:	31-Aug-2015 / 14:22	Sample Comment:	218.6 LL

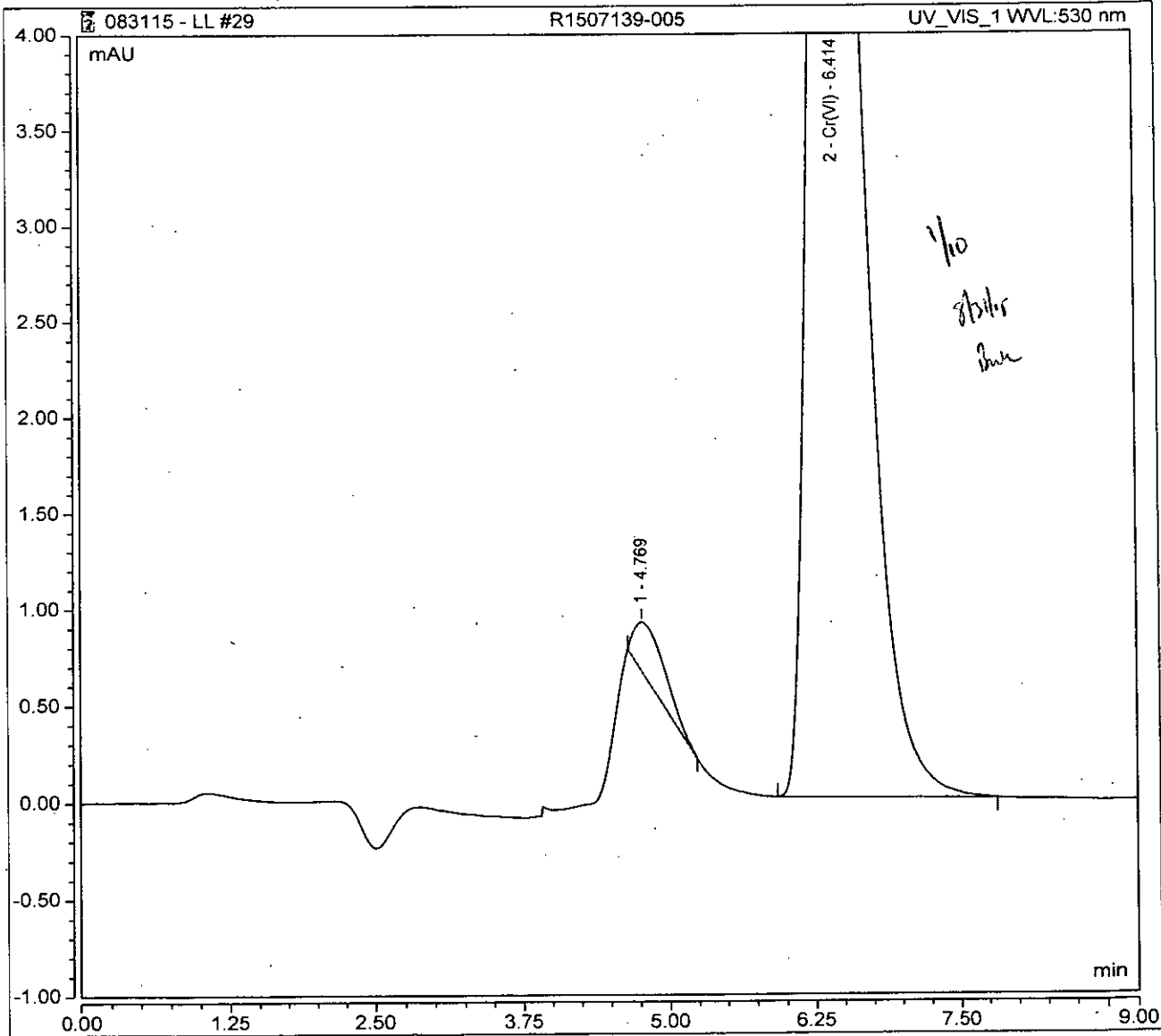
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppb
1	6.32	Cr(VI)	BMB	0.396	0.813	0.3755
TOTAL:				0.40	0.81	0.38



### Peak Integration Report

Sample Name:	R1507139-005	Inj. Vol.:	500.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	8-080715LL	Injection Number:	29
Inj. Date / Time:	31-Aug-2015 / 14:33	Sample Comment:	218.6 LL

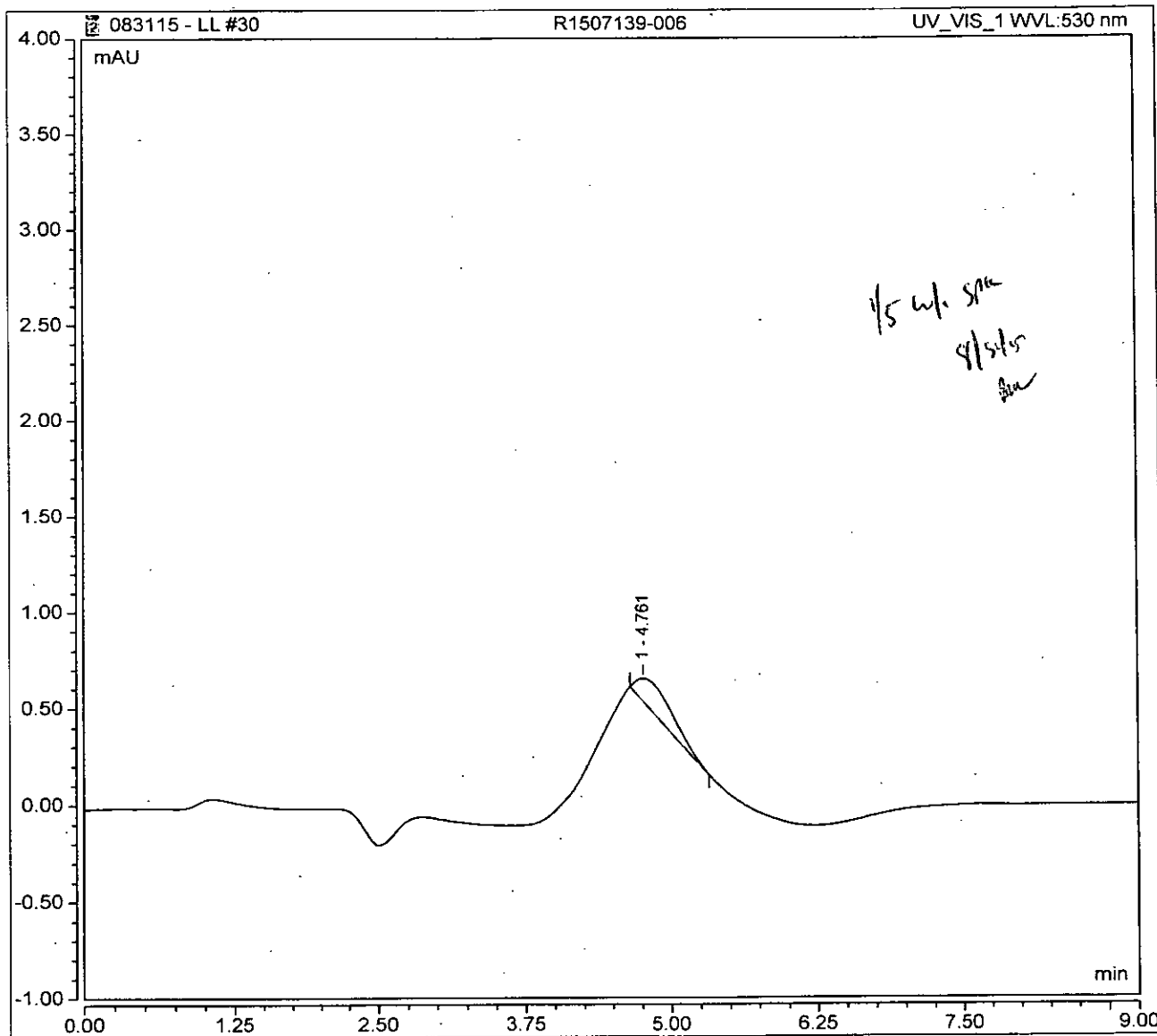
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppb
2	6.41	Cr(VI)	BMB	3.819	7.819	3.6072
TOTAL:				3.82	7.82	3.61



### Peak Integration Report

Sample Name:	R1507139-006	Inj. Vol.:	500.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	8-080715LL	Injection Number:	30
Inj. Date / Time:	31-Aug-2015 / 14:45	Sample Comment:	218.6 LL

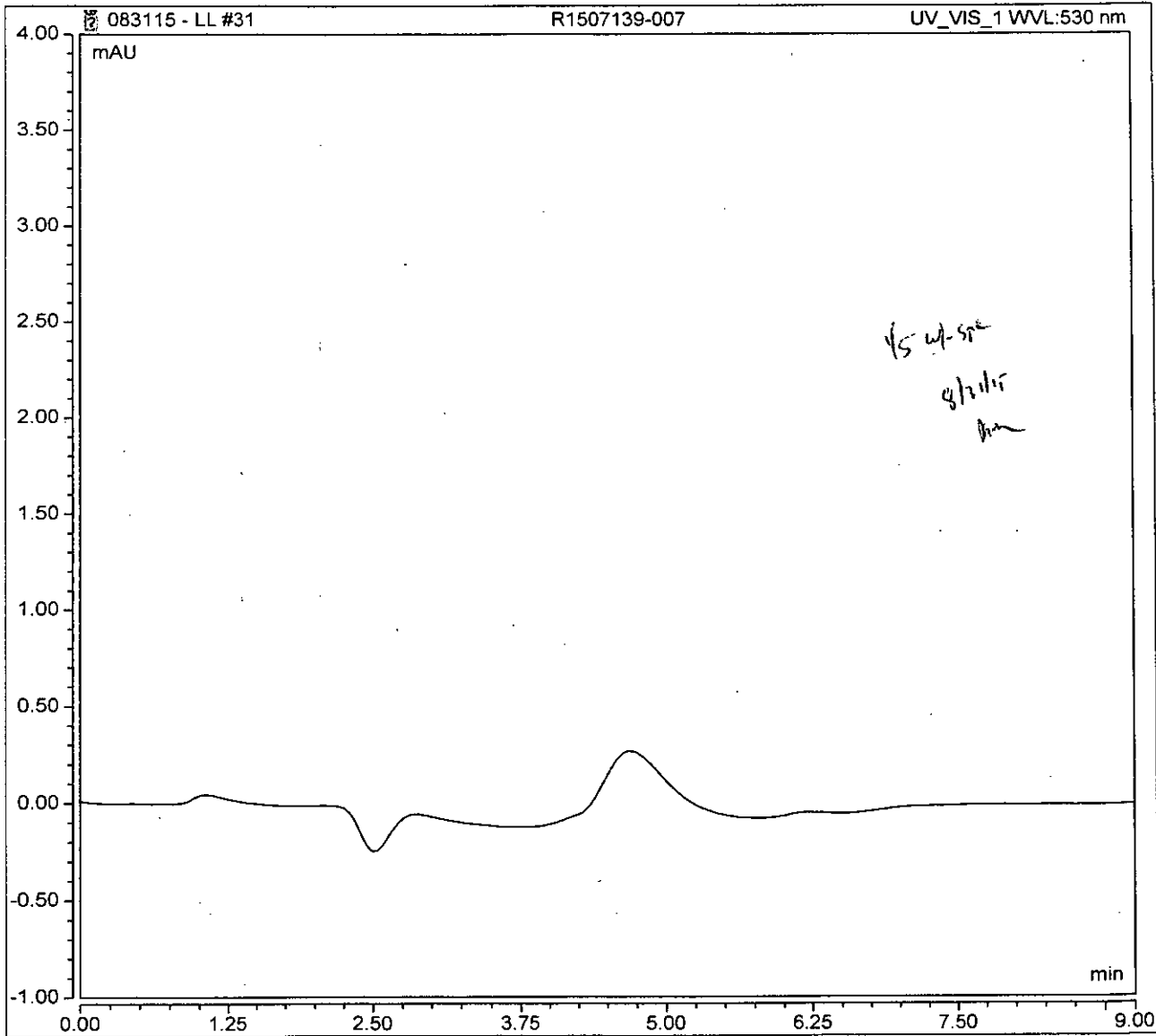
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount n.a.
TOTAL:				0.00	0.00	0.00



### Peak Integration Report

Sample Name:	R1507139-007	Inj. Vol.:	500.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	8-080715LL	Injection Number:	31
Inj. Date / Time:	31-Aug-2015 / 14:57	Sample Comment:	218.6 LL

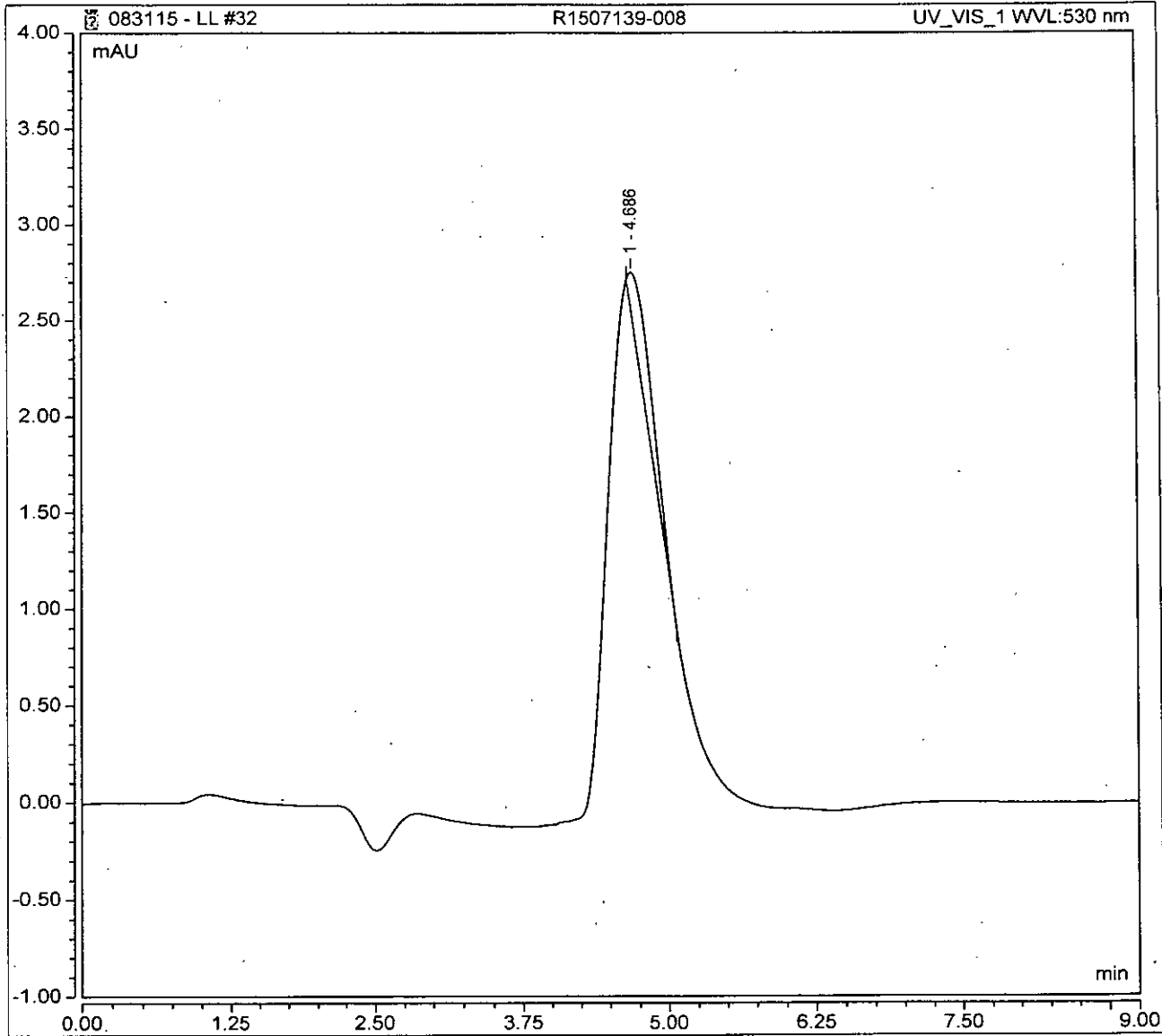
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount n.a.
TOTAL:				0.00	0.00	0.00



### Peak Integration Report

Sample Name:	R1507139-008	Inj. Vol.:	500.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	8-080715LL	Injection Number:	32
Inj. Date / Time:	31-Aug-2015 / 15:09	Sample Comment:	218.6 LL

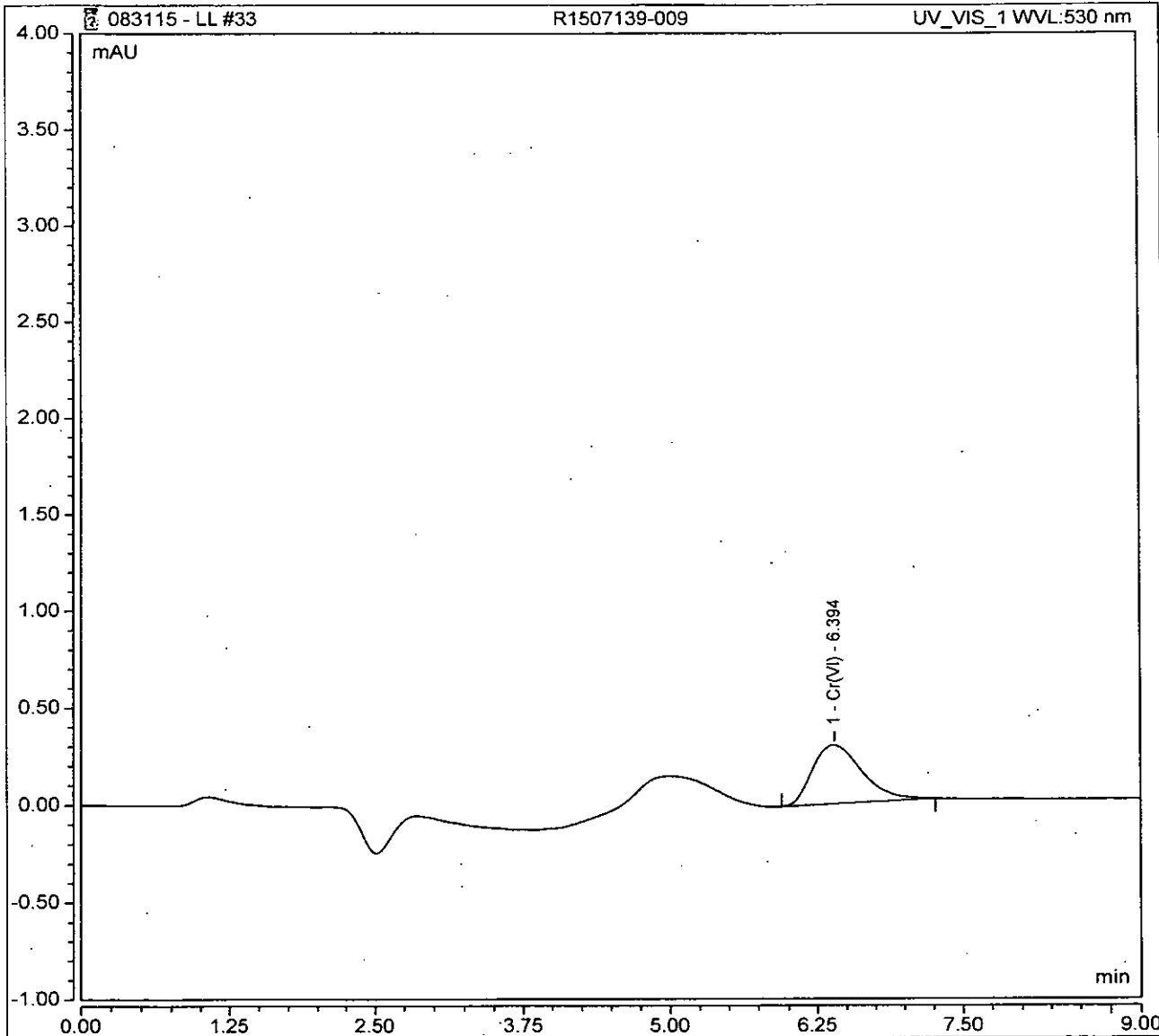
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount n.a.
TOTAL:				0.00	0.00	0.00



### Peak Integration Report

Sample Name:	R1507139-009	Inj. Vol.:	500.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	8-080715LL	Injection Number:	33
Inj. Date / Time:	31-Aug-2015 / 15:21	Sample Comment:	218.6 LL

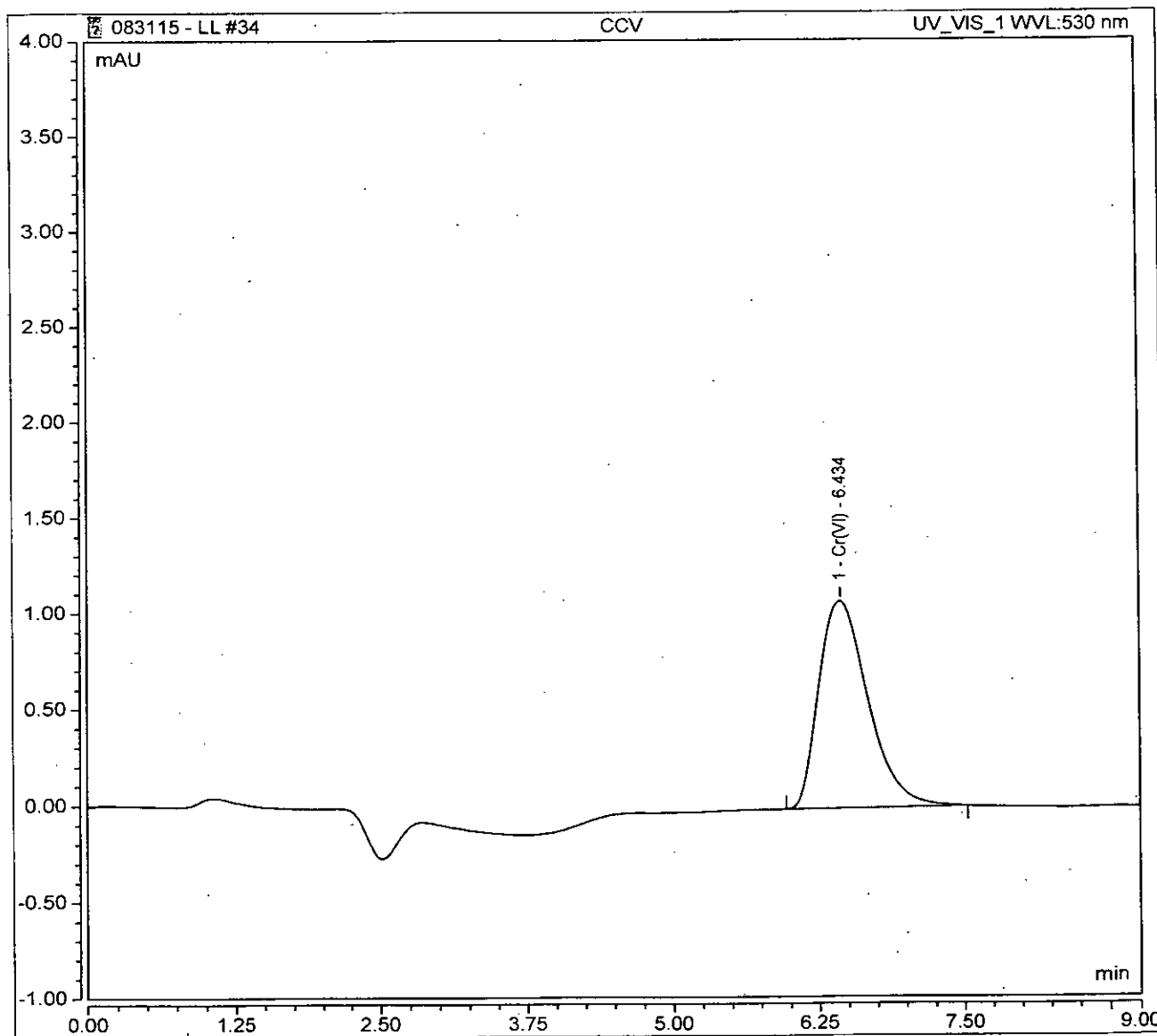
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppb
1	6.39	Cr(VI)	BMB	0.151	0.304	0.1440
TOTAL:				0.15	0.30	0.14



### Peak Integration Report

Sample Name:	CCV	Inj. Vol.:	500.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	8-080715LL	Injection Number:	34
Inj. Date / Time:	31-Aug-2015 / 15:33	Sample Comment:	218.6 LL

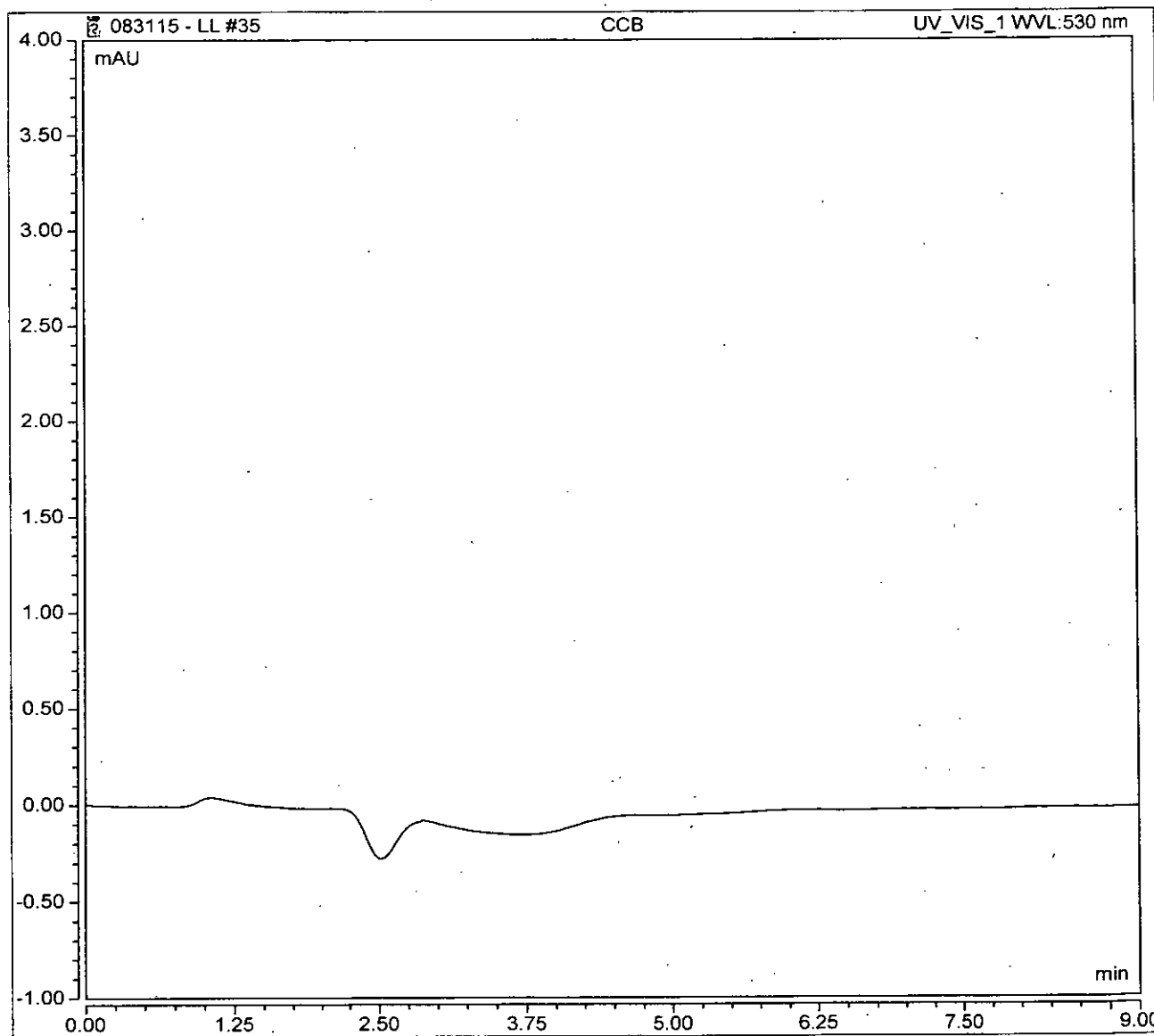
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppb
1	6.43	Cr(VI)	BMB	0.530	1.080	0.5016
TOTAL:				0.53	1.08	0.50



### Peak Integration Report

Sample Name:	CCB	Inj. Vol.:	500.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	8-080715LL	Injection Number:	35
Inj. Date / Time:	31-Aug-2015 / 15:45	Sample Comment:	218.6 LL

No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount n.a.
TOTAL:				0.00	0.00	0.00





ALS Environmental

1565 Jefferson Road, Building 300, Suite 360; Rochester, NY 14623

Ion Chromatography Cover Sheet

**Instrument:** IC#8 – Dionex 2100, AXP Reagent Pump, ICS Series UV/Vis VWD  
**Column:** AS7 Analytical Column (S/N 001384) / AG7 Guard Column (S/N 001363)  
 Analytical Column installed 07/09/14

**Curve Date:** 08/07/15                      **Loop size:**                      200 uL Loop

**Analyst:** \_\_\_\_\_                      **Analysis Date:** \_\_\_\_\_

**CALIBRATION CURVE FOR THIS METHOD IS LINEAR**

**Method Filename:** 8-080715LL

Standards Prep Dates & Log ID's:

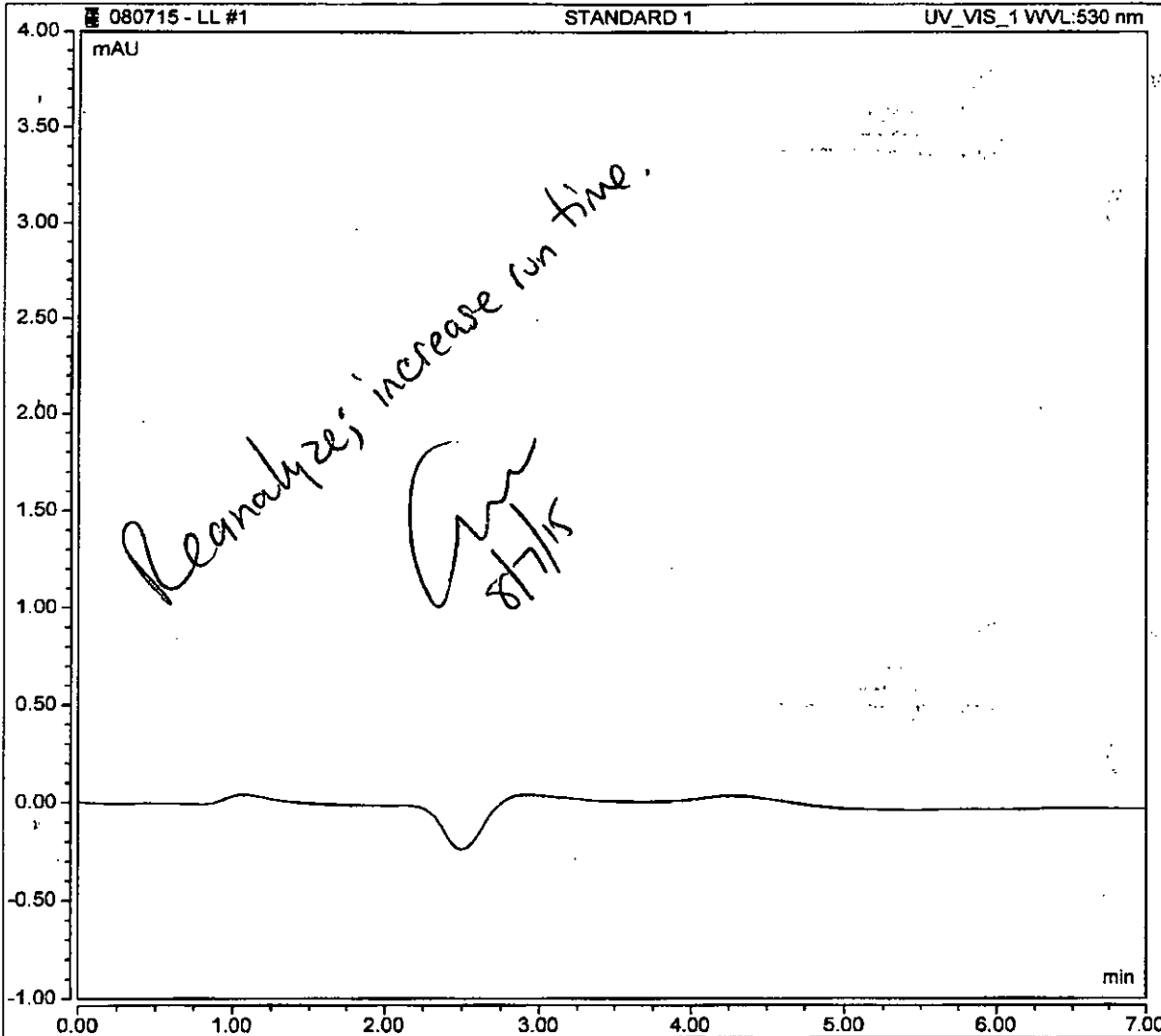
<i>Std Type</i>	<i>Date Rec'd</i>	<i>Log ID</i>	<i>Std Type</i>	<i>Prep Date</i>	<i>Log ID</i>
Calibration Standard Stock	09/23/14	WC140066D	Calibration Stds	08/07/15	Same as WC126208E
LCS / MS Soluble Stock	09/23/14	WC140066D	I/CCB	Daily	Same as WC126209B
I/CCV Standard Stock	02/05/15	WC140152H	I/CCV	Daily	Same as WC126209A
LCS	Daily	Same as WC126209C	Matrix Spike	Daily	Same as WC126209D

Retention times must be within ten percent of original RT as determined by Standard 5 – 6.491 minutes  
 All analyses are reviewed to ensure that peak integration is performed properly from baseline to baseline.

### Peak Integration Report

Sample Name:	STANDARD 1	Inj. Vol.:	500.00
Injection Type:	Calibration Standard	Dilution Factor:	1.0000
Processing Method:	8-080715LL	Injection Number:	1
Inj. Date / Time:	07-Aug-2015 / 11:20	Sample Comment:	218.6 LL

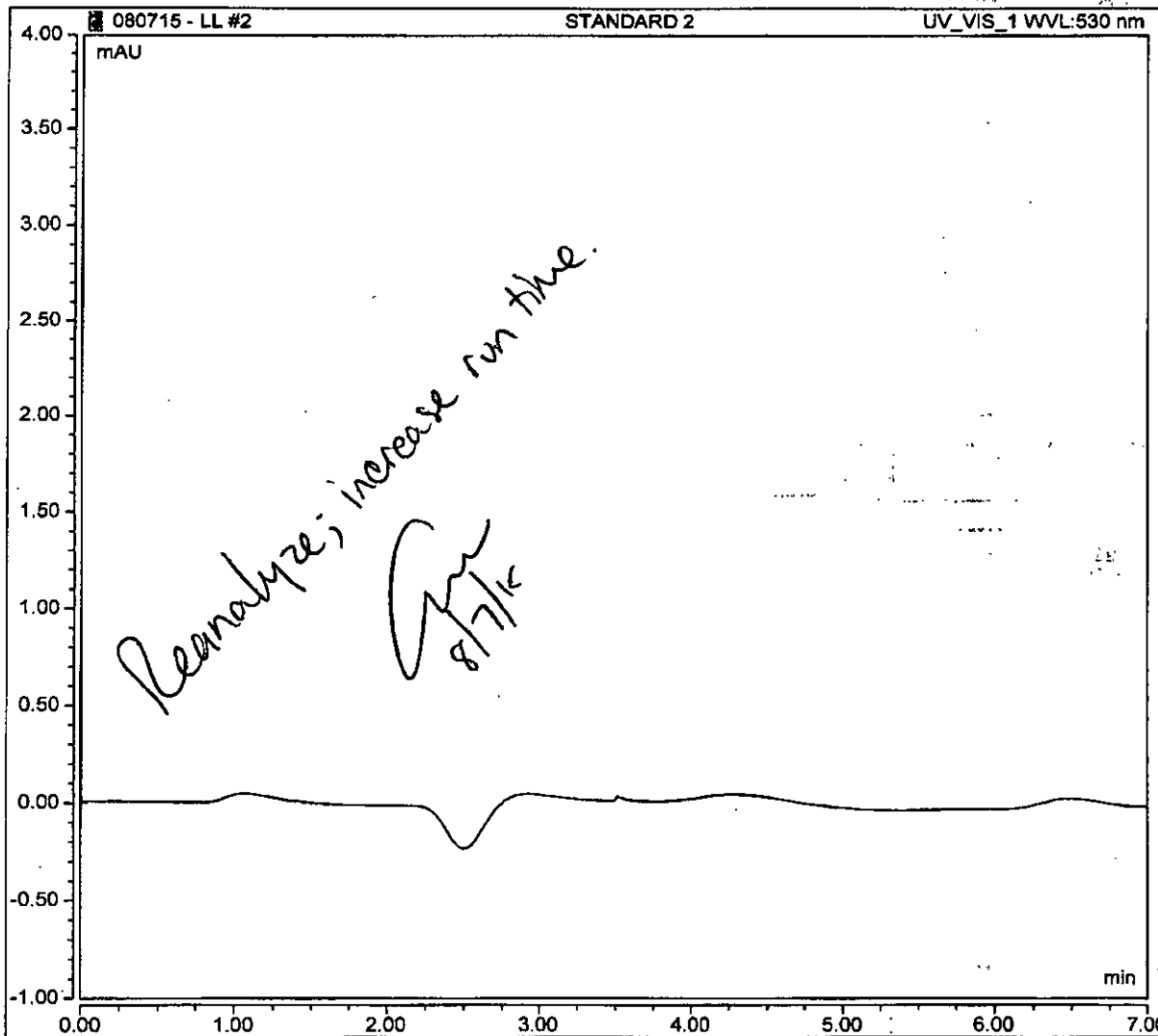
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount n.a.
TOTAL:				0.00	0.00	0.00



### Peak Integration Report

Sample Name:	STANDARD 2	Inj. Vol.:	500.00
Injection Type:	Calibration Standard	Dilution Factor:	1.0000
Processing Method:	8-080715LL	Injection Number:	2
Inj. Date / Time:	07-Aug-2015 / 11:30	Sample Comment:	218.6 LL

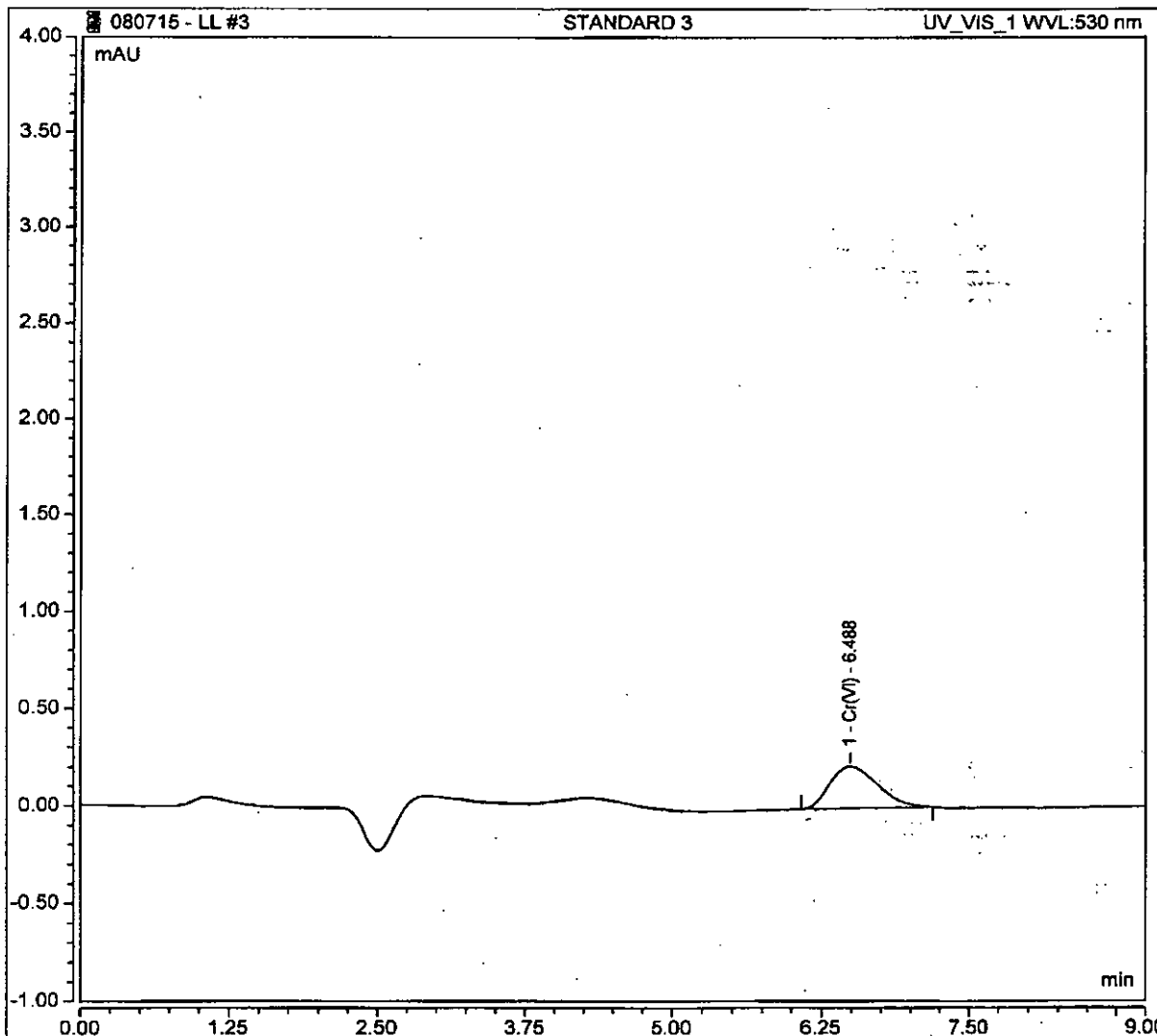
No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount n.a.
TOTAL:				0.00	0.00	0.00



### Peak Integration Report

Sample Name:	STANDARD 3	Inj. Vol.:	500.00
Injection Type:	Calibration Standard	Dilution Factor:	1.0000
Processing Method:	8-080716LL	Injection Number:	3
Inj. Date / Time:	07-Aug-2015 / 11:40	Sample Comment:	218.6 LL

No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppb
1	6.49	Cr(VI)	BMB	0.102	0.217	0.0975
TOTAL:				0.10	0.22	0.10

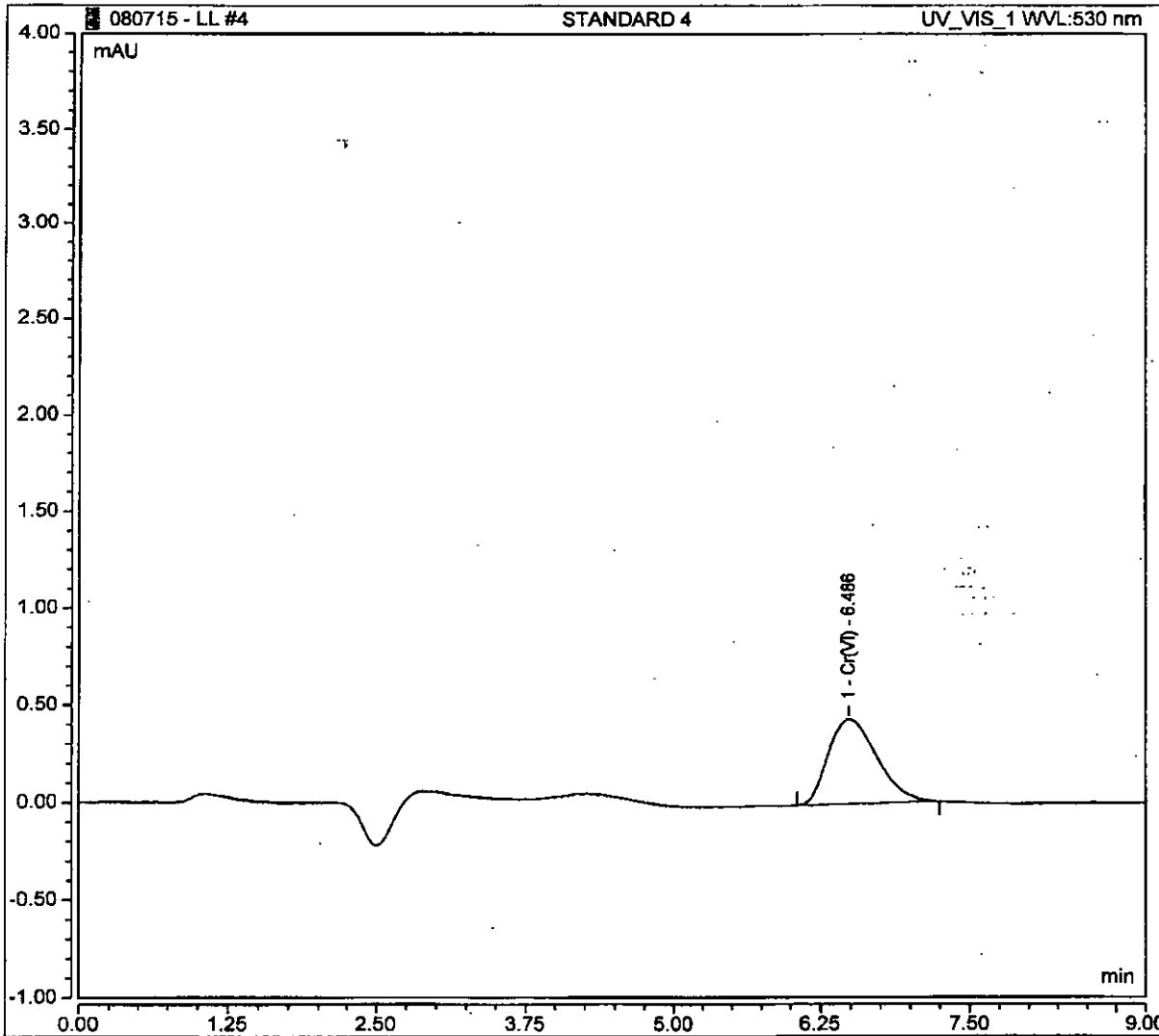


CK8/12/15  
98%

### Peak Integration Report

Sample Name:	STANDARD 4	Inj. Vol.:	500.00
Injection Type:	Calibration Standard	Dilution Factor:	1.0000
Processing Method:	8-080716LL	Injection Number:	4
Inj. Date / Time:	07-Aug-2015 / 11:52	Sample Comment:	218.6 LL

No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppb
1	6.49	Cr(VI)	BMB	0.207	0.435	0.1963
TOTAL:				0.21	0.43	0.20

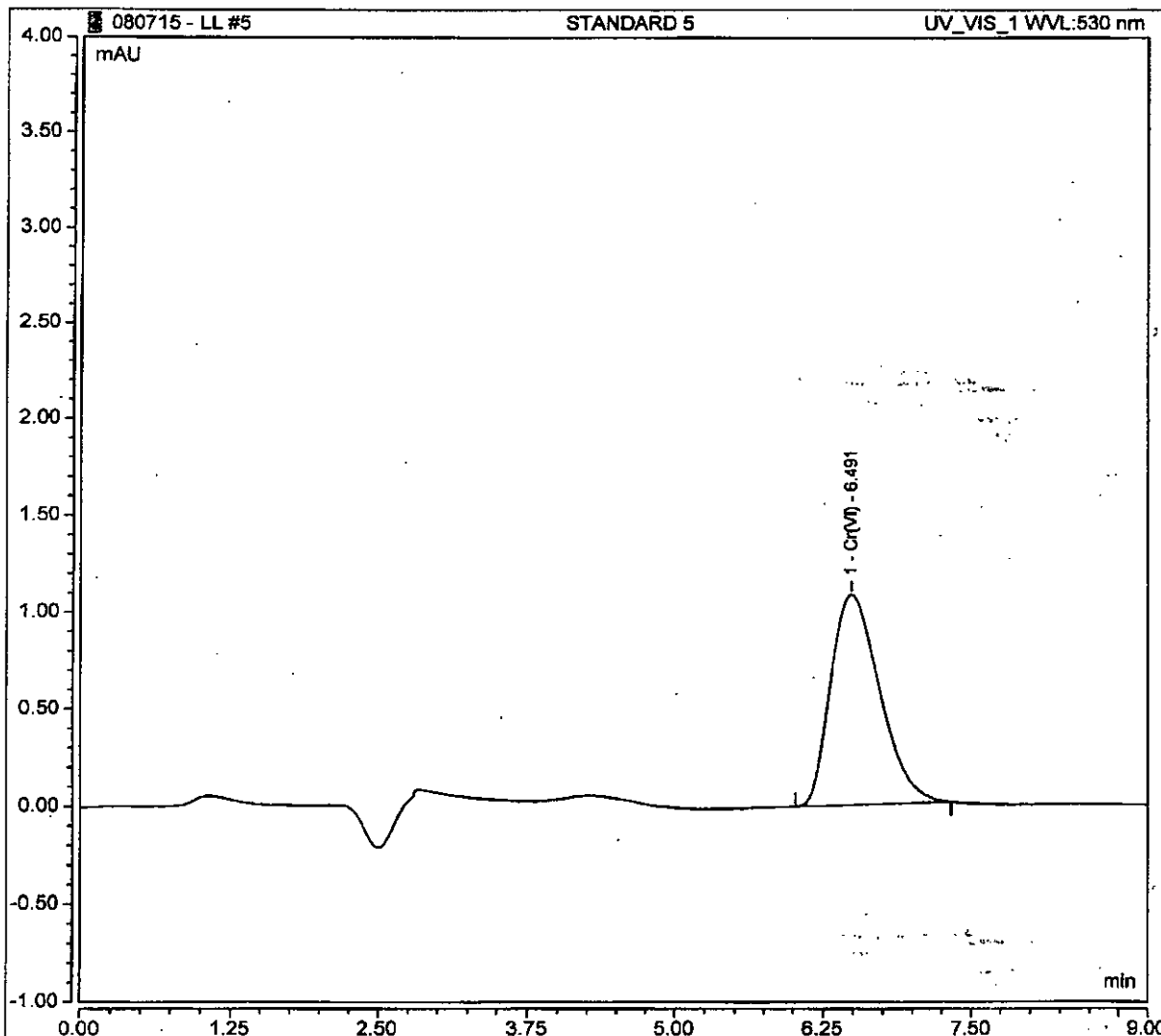


08/12/15  
98%

### Peak Integration Report

Sample Name:	STANDARD 5	Inj. Vol.:	600.00
Injection Type:	Calibration Standard	Dilution Factor:	1.0000
Processing Method:	8-080715LL	Injection Number:	5
Inj. Date / Time:	07-Aug-2015 / 12:04	Sample Comment:	218.6 LL

No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppb
1	6.49	Cr(VI)	BMB	0.520	1.083	0.4925
TOTAL:				0.52	1.08	0.49

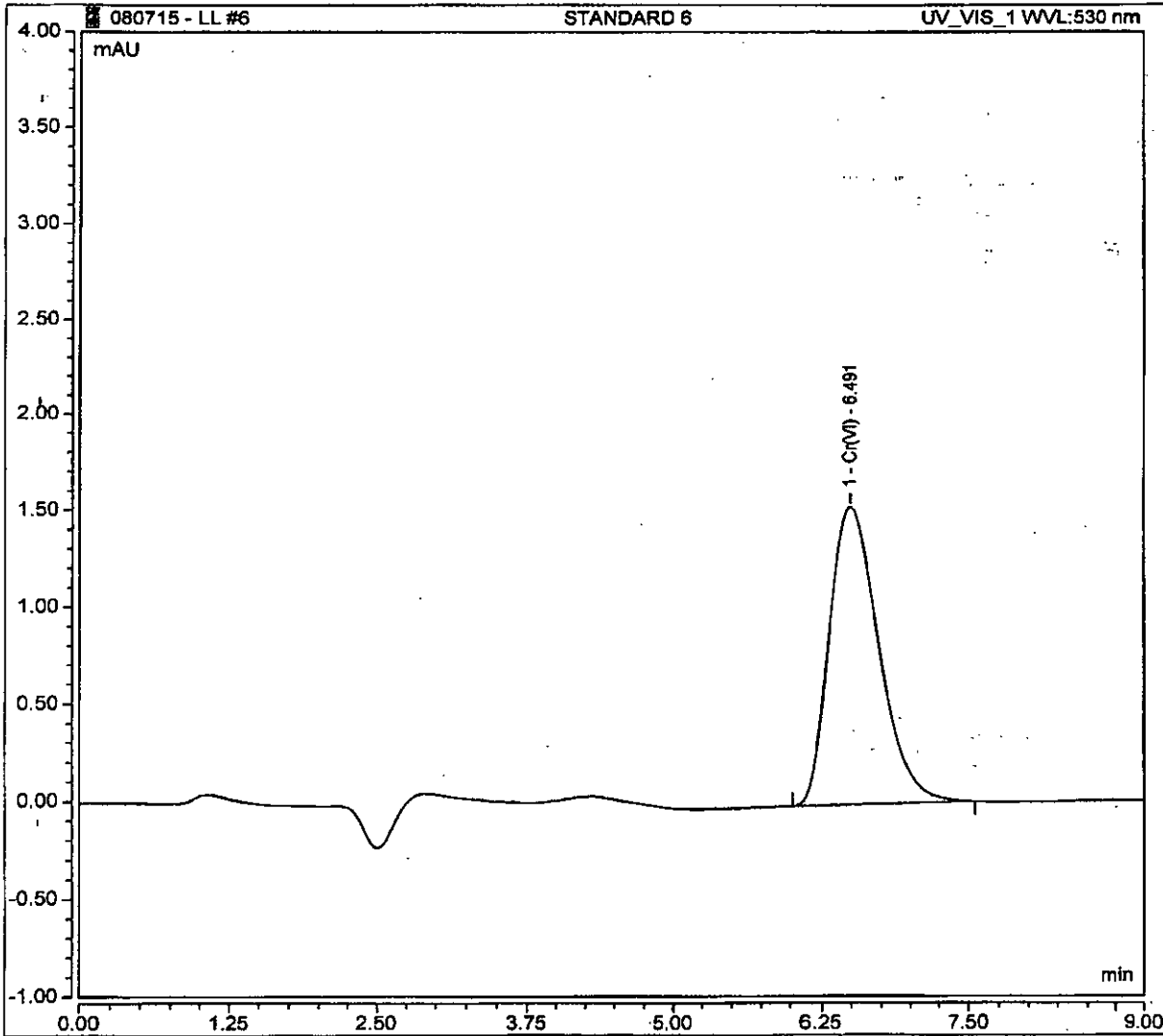


OK 8/12/15  
99%

### Peak Integration Report

Sample Name:	STANDARD 6	Inj. Vol.:	600.00
Injection Type:	Calibration Standard	Dilution Factor:	1.0000
Processing Method:	8-080715LL	Injection Number:	6
Inj. Date / Time:	07-Aug-2015 / 12:16	Sample Comment:	218.6 LL

No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppb
1	6.49	Cr(VI)	BMB	0.743	1.532	0.7030
TOTAL:				0.74	1.53	0.70

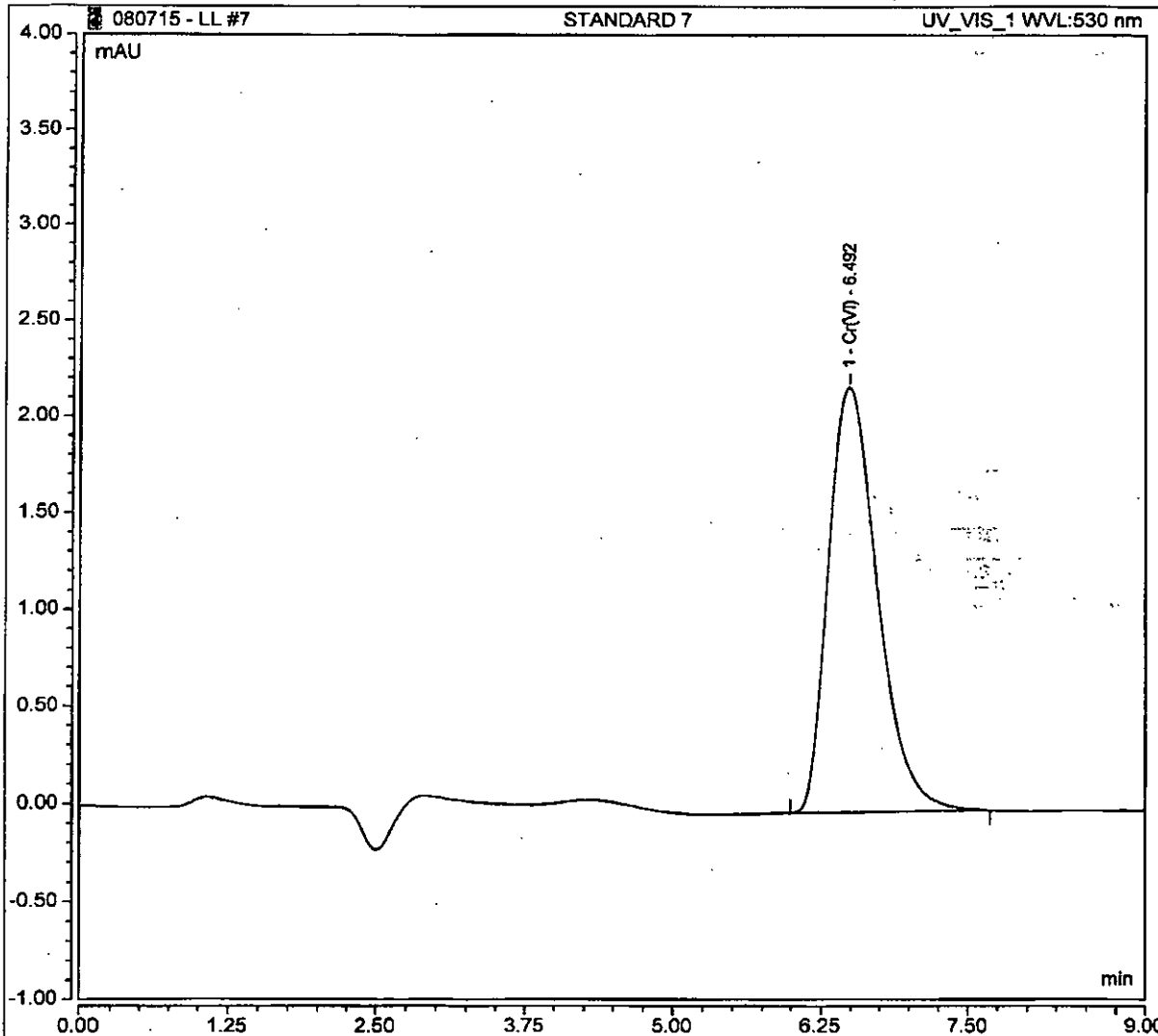


OK 8/12/15  
100%

### Peak Integration Report

Sample Name:	STANDARD 7	Inj. Vol.:	500.00
Injection Type:	Calibration Standard	Dilution Factor:	1.0000
Processing Method:	8-080715LL	Injection Number:	7
Inj. Date / Time:	07-Aug-2015 / 12:28	Sample Comment:	218.6 LL

No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppb
1	6.49	Cr(VI)	BMB	1.069	2.193	1.0107
TOTAL:				1.07	2.19	1.01



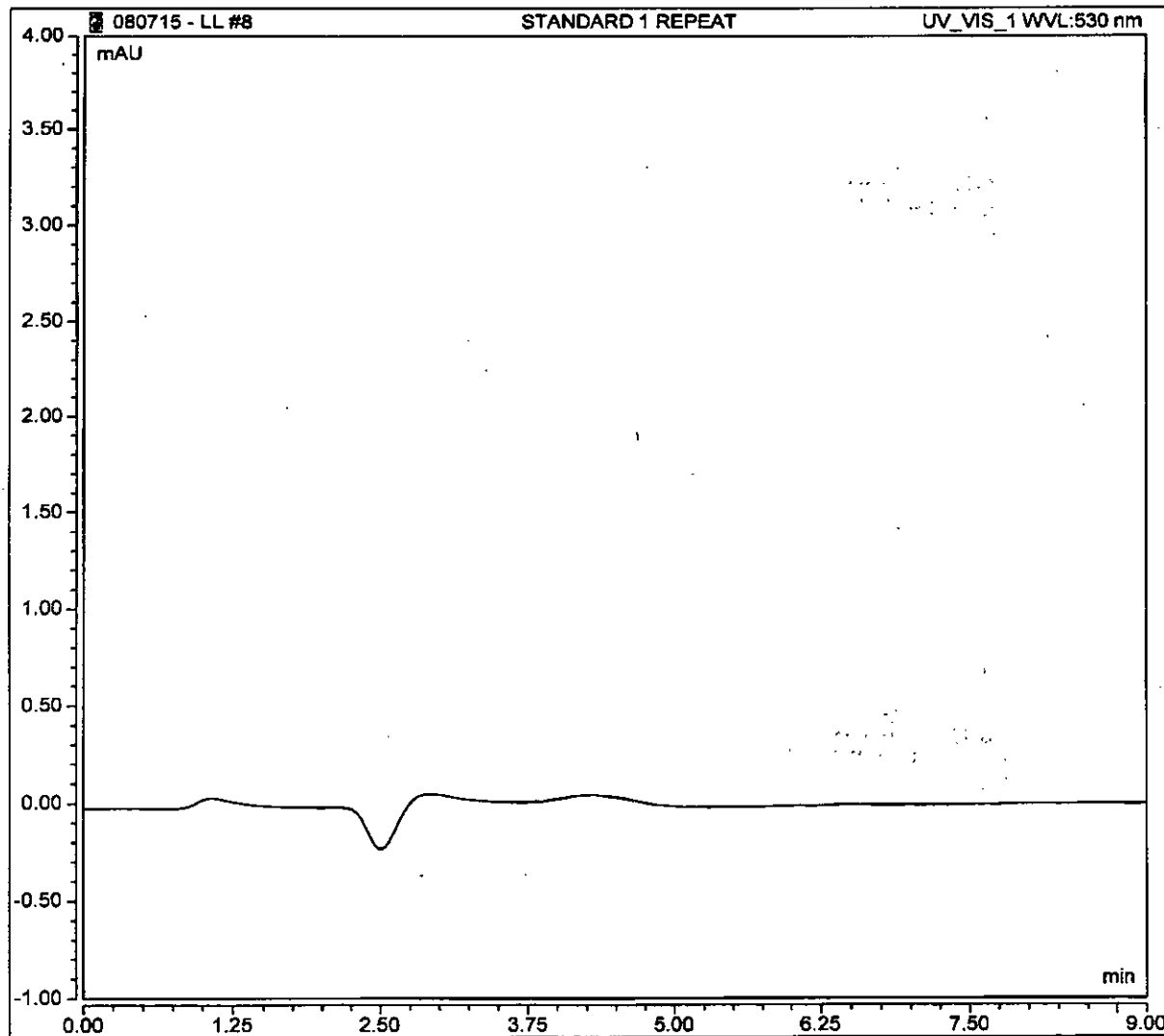
08/12/15  
1011



### Peak Integration Report

Sample Name:	STANDARD 1 REPEAT	Inj. Vol.:	500.00
Injection Type:	Calibration Standard	Dilution Factor:	1.0000
Processing Method:	8-080715LL	Injection Number:	8
Inj. Date / Time:	07-Aug-2015 / 12:41	Sample Comment:	218.6 LL

No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount n.a.
TOTAL:				0.00	0.00	0.00

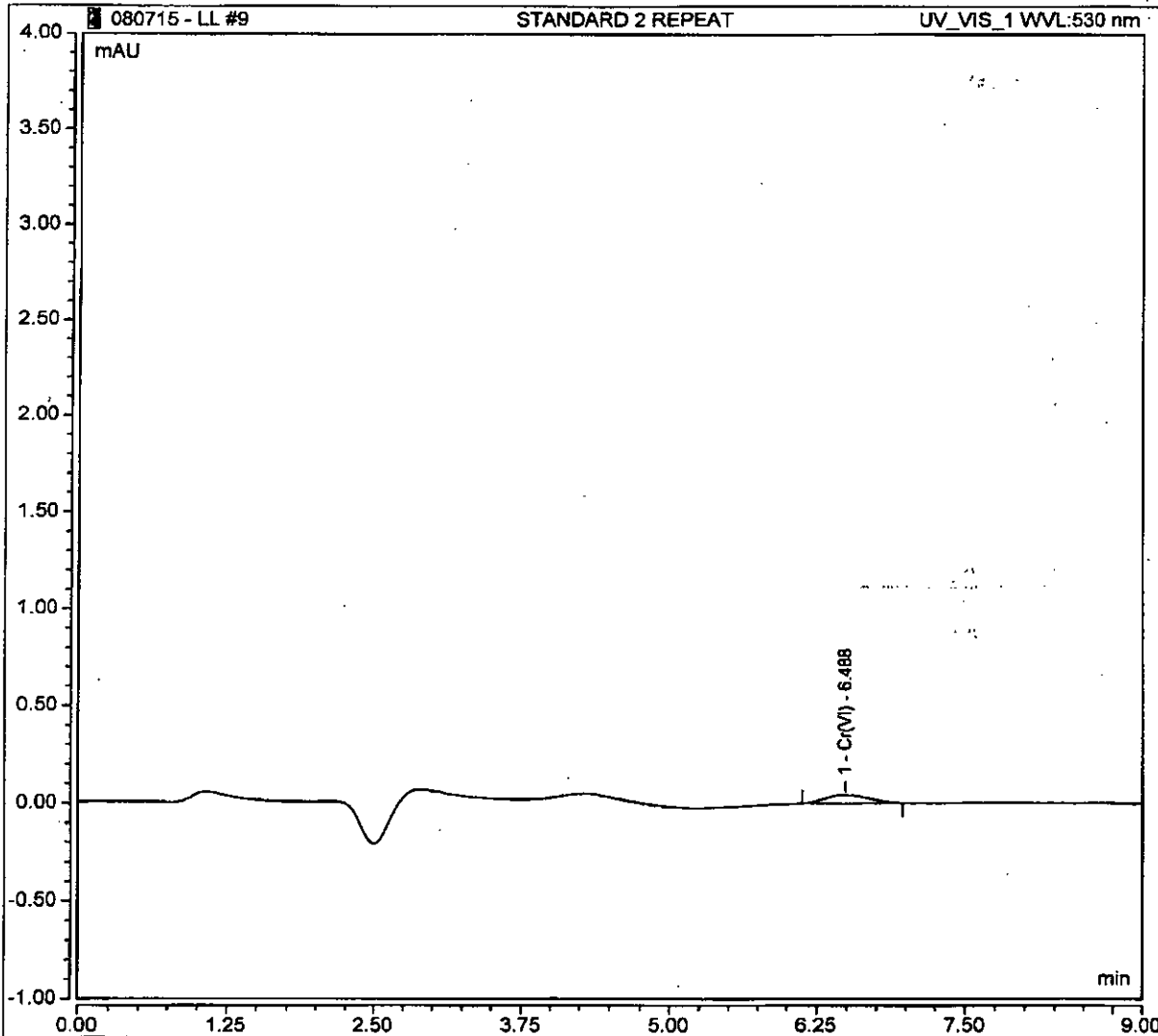


CK8/12/15

### Peak Integration Report

Sample Name:	STANDARD 2 REPEAT	Inj. Vol.:	600.00
Injection Type:	Calibration Standard	Dilution Factor:	1.0000
Processing Method:	8-080715LL	Injection Number:	9
Inj. Date / Time:	07-Aug-2015 / 12:53	Sample Comment:	218.6 LL

No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppb
1	6.49	Cr(VI)	BMB	0.019	0.045	0.0196
TOTAL:				0.02	0.05	0.02

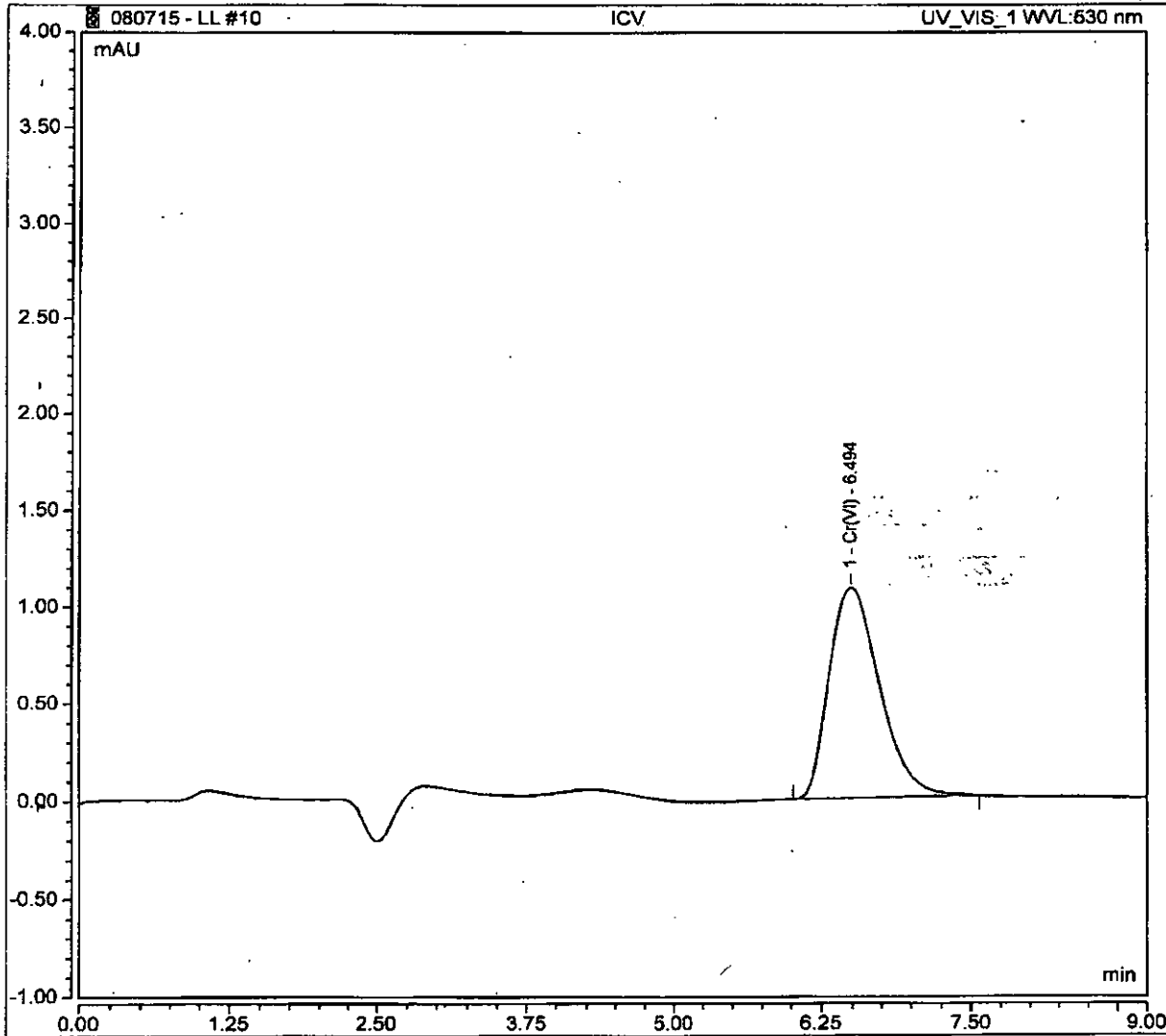


CKR/LL/LL  
98%

### Peak Integration Report

Sample Name:	ICV	Inj. Vol.:	500.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	8-080715LL	Injection Number:	10
Inj. Date / Time:	07-Aug-2015 / 13:59	Sample Comment:	218.6 LL

No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount ppb
1	6.49	Cr(VI)	BMB	0.528	1.083	0.4996
TOTAL:				0.53	1.08	0.50

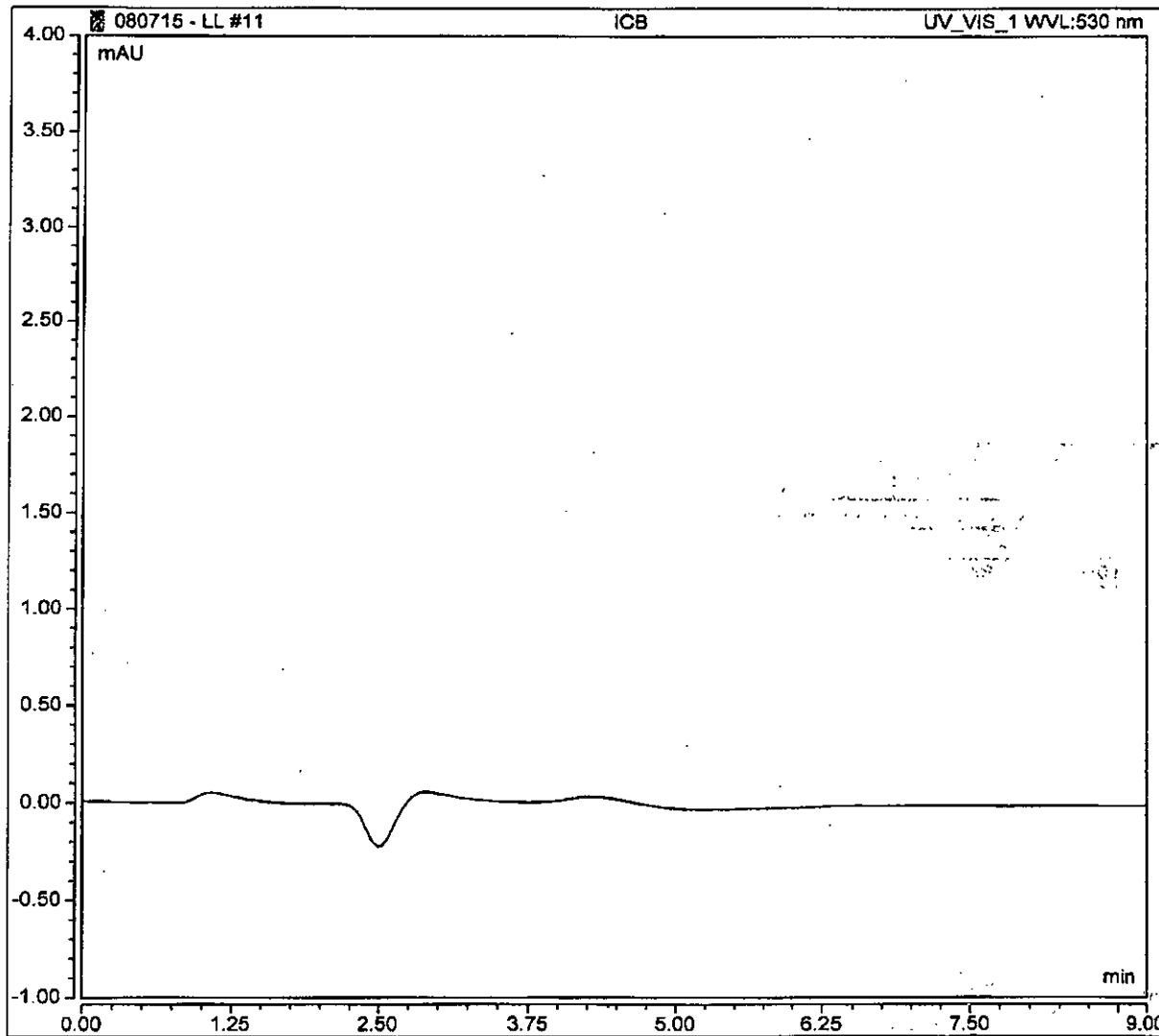


*CKA/12/15*

### Peak Integration Report

Sample Name:	ICB	Inj. Vol.:	500.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Processing Method:	8-080715LL	Injection Number:	11
Inj. Date / Time:	07-Aug-2015 / 14:11	Sample Comment:	218.6 LL

No.	Time min	Peak Name	Peak Type	Area mAU*min	Height mAU	Amount n.a.
TOTAL:				0.00	0.00	0.00



08/07/2015

**Calibration Batch Report**

Processing Method:	8-080715LL	Injection Volume:	500.00
Instrument Method:	Cr(VI) w ASDV - LL	Operator:	ALRCE.GenChem02

**Calibration Summary**

Peak Name	Eval.Type	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Coeff.Det. %
Cr(VI)	Area	Lin, AddZero, 1/A	7.000	0.001	0.944	0.000	99.98

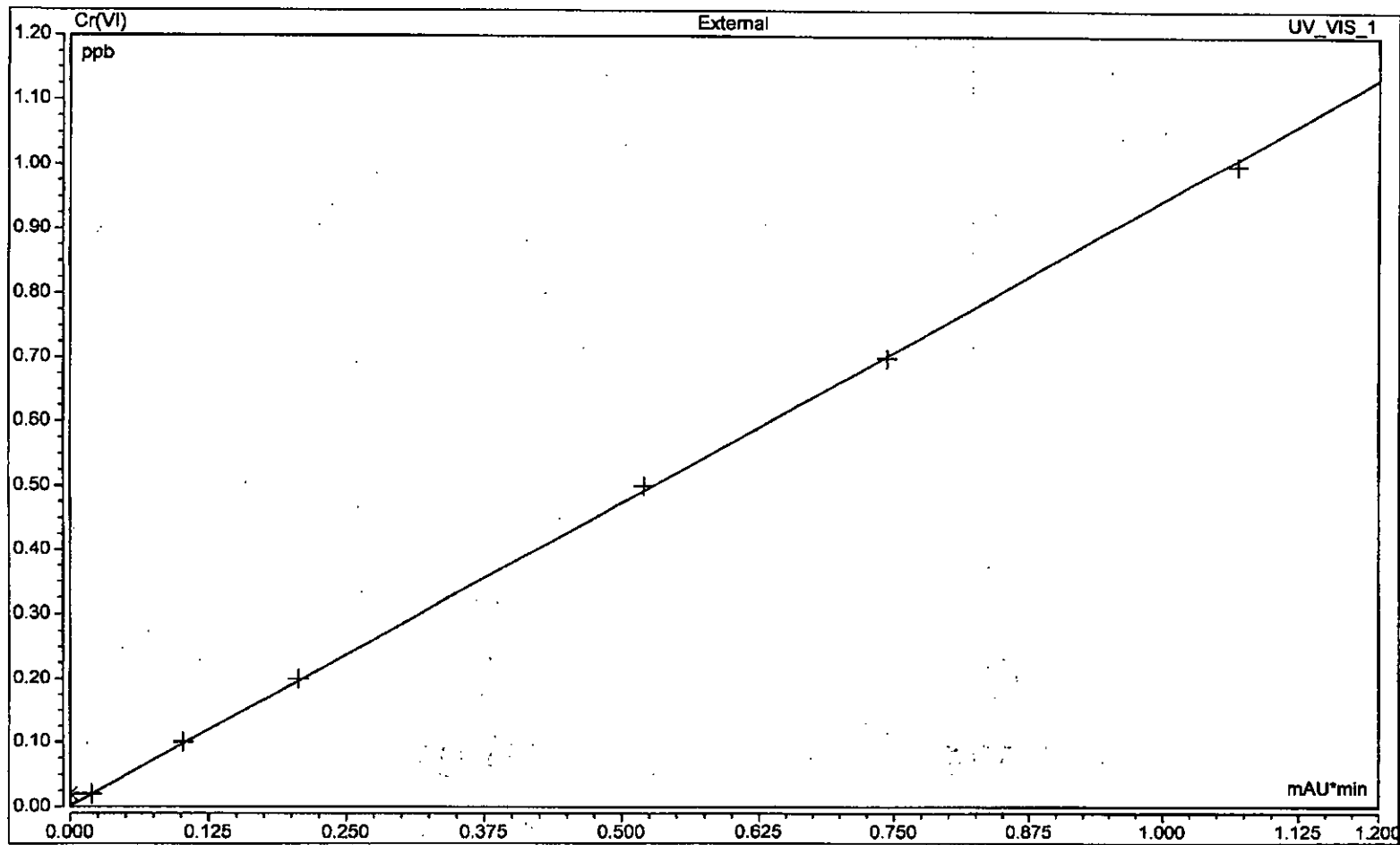
Injection Name	Ret.Time min Cr(VI)	Area mAU*min Cr(VI)	Height mAU Cr(VI)	Amount ppb Cr(VI)	Calibration Point Status Cr(VI)
STANDARD 1	UV_VIS_1 n.a.	UV_VIS_1 n.a.	UV_VIS_1 n.a.	UV_VIS_1 n.a.	UV_VIS_1 Disabled
STANDARD 2	n.a.	n.a.	n.a.	n.a.	Disabled
STANDARD 3	6.488	0.1019	0.217	0.0975	Ok
STANDARD 4	6.486	0.2065	0.435	0.1963	Ok
STANDARD 5	6.491	0.5203	1.083	0.4925	Ok
STANDARD 6	6.491	0.7431	1.532	0.7030	Ok
STANDARD 7	6.492	1.0691	2.193	1.0107	Ok
STANDARD 1 REPEAT	n.a.	n.a.	n.a.	n.a.	Missing Peak
STANDARD 2 REPEAT	6.488	0.0194	0.045	0.0196	Ok

Average	6.489
Rel. Std. Dev.	0.034 %

Ret. Time min	Param. Name	Param. Value	Inj. Type	Channel
0.000	Inhibit Integration	On	Any	All Channels
0.000	Valley To Valley	On	Any	All Channels
0.000	Minimum Area	0.0001 [Signal*min]	Any	All Channels
0.000	Minimum Height	0.001 [Signal]	Any	All Channels
4.650	Inhibit Integration	Off	Any	All Channels
8.000	Inhibit Integration	On	Any	All Channels

00292

Method Name: 8-080715LL  
Corr. Coefficient: 99.98  
Calibration Type: Lin, AddZero, 1/A



00293

ALS Environmental

1565 Jefferson Road, Building 300, Suite 360; Rochester, NY 14623

Ion Chromatography Cover Sheet

**Instrument:** IC#8 – Dionex 2100, AXP Reagent Pump, ICS Series UV/Vis VWD  
**Column:** AS7 Analytical Column (S/N 001384) / AG7 Guard Column (S/N 001363)  
 Analytical Column installed 07/09/14

**Curve Date:** 08/07/15 **Loop size:** 200 uL Loop

**Analyst:** C Woods **Analysis Date:** 8/7/15

CALIBRATION CURVE FOR THIS METHOD IS LINEAR

Method Filename: 8-080715LL

Standards Prep Dates & Log ID's:

*Preps: Up, Down*

<i>Std Type</i>	<i>Date Rec'd</i>	<i>Log ID</i>	<i>Std Type</i>	<i>Prep Date</i>	<i>Log ID</i>
Calibration Standard Stock	09/23/14	WC140066D	Calibration Stds	08/07/15	Same as WC126208E
LCS / MS Soluble Stock	09/23/14	WC140066D	I/CCB	Daily	Same as WC126209B
I/CCV Standard Stock	02/05/15	WC140152H	I/CCV	Daily	Same as WC126209A
LCS	Daily	Same as WC126209C	Matrix Spike	Daily	Same as WC126209D

Retention times must be within ten percent of original RT as determined by Standard 5 – 6.491 minutes  
 All analyses are reviewed to ensure that peak integration is performed properly from baseline to baseline.

Alphajin

CINWV

## Calibration for 210, 411

- ① 1000 cc's Cst Standard  
In a 100 ml flask add about 500 ml DI. To this add  
10 ml of 1000 ppm Cst Standard stock (w# 1122325).  
Bring to volume w/ DI. Mix thoroughly. Prepare fresh.

- ② 1000 ppm Cst Reference  
In a 21 ml flask add about 500 ml DI. To this add  
10 ml of 1000 ppm Cst Reference stock (w# 221174),  
Bring to volume w/ DI. Mix thoroughly. Prepare fresh.

- ③ 1000 Cst Standard Working Stock - In a 100 ml vol  
flask add about 50 ml of DI and add 10 ml of Cst  
buffer soln. To this add 10 ml of 1000 ppm Cst Standard  
(w# 122258A). Bring to volume w/ DI. Mix thoroughly. Prepare fresh.

- ④ 1000 Cst Reference Working Stock - In a 100 ml vol  
flask add about 50 ml of DI and add 10 ml of Cst buffer  
soln. To this add 10 ml of 1000 ppm Cst Reference (w# 122258B).  
Bring to volume w/ DI. Mix thoroughly. Prepare fresh.

## ⑤ Calibration Standards

Std #	ala buffer vol	mls 1000 std (w# 122258C)	Comp. Soln
1	10.0		.000
2		1/10 serial dilution of std #4	.0020
3	9.9		0.10
4	9.8		0.20
5	9.5		0.50
6	9.3		0.70
7	9.0		1.0

3/21/04



2/28/14

Calibration for 118 All. Continued

209  
PAGE  
WC126  
LOG BOOK #

Answers?

① CV/CCV (TV=0.50ppb)



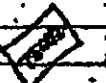

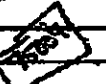
To 95mls of buffered DI add 0.5ml of 10ppb Cr+ Reference Working Stock (WC126208C), (WC126208D) Mix + analyze.

② ICB/CEB/MB - Analyze 10ml of buffered DI

③ ICS (W=0.20ppb) -  
To 90ml of buffered DI add 0.2ml of 10ppb Cr+ Standard Working Stock (WC126208C), Mix + analyze.

④ Matrix Spike (W=0.20x dilution (ppb))  
To 10ml of sample add 0.20ml of 10ppb Cr+ Standard Working Stock (WC126208C), Mix + analyze.

01/15

Received from Hach	Received
(2) x 500ml Pyridine/Barbituric Acid Reagent, CAS# 52015, Hach lot# 421, CAS# 628-33-7,  67-52-7, 110-80-1, 7732-18-5, Store @ 4°C Expires 1/31/2015 as per manufacturer	(6) x 2.5L CAS# 7732- 0000-1131L manufacturer
Same as above; (1) x 500ml, lot# 4204, 	(1) x 500ml CAS# 5111-89- 2406623, S manufacturer
Received from VWR (6) x 1L Sodium Hypochlorite Solution, off SS290-1, CAS# 7681-52-9 and 7732-58-5, Fisher lot 144413,  Store @ RT away from sunlight, Expires 4/30/2015, as per manufacturer	(1) x 500g LI CAS# 5 108-95 000008355 Expires 3/17/20
(1) x 500ml Dippin Chromium Reference Standard Solution, CAS# SC192-500, CAS# 7732-50-9 + 7732-18-5, lot# 144217,  Store @ RT, Expires 8/31/2016 as per manufacturer	(4) x 4L Ref OT box lot # cabinet, Expires
(1) x 4L Phosphoric Acid, 85%, CAS# 2796-115, CAS# 7732-18-5 + 7664-38-2, Mason lot 0000072583,  Store @ RT, Expires 2/2/2016 as per manufacturer	Received (12) x 200k

00297

1/27/11

Received from VWR

BDH 21515 UNO

(B) (3) x 1L Formaldehyde Solution. Cat # BDH0500-110 Lot # 14462100  
# 312352, CAS # 50-00-0, 10-50-1. Expires per manufacturer:  
10/2016.

(B) (1) x 500mL Ethylenediamine block T. Cat # LC14040-1, lot # D502-16  
(Lab Chem)  
CAS # 107-10-3, 109-80-4 Expires per manufacturer: 10/30/2017.

(C) (1) x 500g Sulfadiazine. Cat # V153-02 JT BAYER lot #  
0000085314, CAS # 63-74-1. Expires per manufacturer: 10/30/2018

(D) (1) x 1L Phosphate Buffer pH 7.0. Cat # BDH7447-1. BDH lot #  
510105. CAS # 7778-77-0, 7558-79-4, 7132-18-5. Expires per  
manufacturer: 1/5/2016

(E) (2) x 1L Sodium Thiosulfate Solution 0.1N. Cat # SY08218. EMD  
lot # 54109, CAS # 10102-77-3, 497-19-8, 7732-18-5. Expires  
per manufacturer: 1/31/2016.

(F) (4) x 500g Phenol, liquidified. Cat # 0025-04. Macron lot #  
0000083553, CAS # 108-95-2, 7732-18-5. Expires per manufacturer:  
3/17/2020

21515 (G) TSS Reference  
(R) 0.2141 g (KaoIn) (JCS922018) diluted w/ 1000g  
of DI stored in plastic bottle @ 4°C. Exp: 5/1/15

21515 (H) <sup>1000g</sup> Received from VWR

21515 UNO

(H) (1) x 500ml Cr6 Chromium 1000 ug/ml. CAS # Cat # 100012-2  
High purity standards lot # 1402709, CAS # 7440. Expires per  
manufacturer: 7/20/16.

(I) (1) x 25g Silver sulfate powder. Cat # 11417. Alfa Aesar lot #  
24559, CAS # 10294-20-5. Expires 5 years from date of  
receipt: 2/5/2020

(J) (1) x 100g Mercury (II) sulfate. Cat # 3102816. Alfa Aesar lot #  
7700105, CAS # 7702-35-0. Expires 5 years from date of

# Analytical Results Summary

Instrument Name: R-Balance-17

Analyst: KWONG

Analysis Lot: 459055

Method/Testcode: ALS SOP/Total Solids

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
R1506920-001	Total Solids	N/A		Soil	51.04 Percent		51.0 Percent	1 ✓					7/30/15 14:51	N	I
R1506951-001	Total Solids	N/A		Soil	63.36 Percent		63.4 Percent	1 ✓					8/24/15 10:38	N	II
RQ1509739-01	Total Solids	DUP	R1506951-001	Soil	66.14 Percent		66.1 Percent	1 ✓				4	8/24/15 10:38	N	II
R1506803-006	Total Solids	N/A		Soil	82.59 Percent		82.6 Percent	1 ✓					8/24/15 10:38	N	IV
R1506803-007	Total Solids	N/A		Soil	91.32 Percent		91.3 Percent	1 ✓					8/24/15 10:38	N	IV
R1506803-008	Total Solids	N/A		Soil	83.27 Percent		83.3 Percent	1 ✓					8/24/15 10:38	N	IV
R1506803-009	Total Solids	N/A		Soil	88.40 Percent		88.4 Percent	1 ✓					8/24/15 10:38	N	IV
R1506803-010	Total Solids	N/A		Soil	88.54 Percent		88.5 Percent	1 ✓					8/24/15 10:38	N	IV
R1506803-011	Total Solids	N/A		Soil	87.45 Percent		87.5 Percent	1 ✓					8/24/15 10:38	N	IV
R1506803-012	Total Solids	N/A		Soil	78.02 Percent		78.0 Percent	1 ✓					8/24/15 10:38	N	IV
R1506803-013	Total Solids	N/A		Soil	85.34 Percent		85.3 Percent	1 ✓					8/24/15 10:38	N	IV
R1506803-014	Total Solids	N/A		Soil	83.66 Percent		83.7 Percent	1 ✓					8/24/15 10:38	N	IV
R1506803-015	Total Solids	N/A		Soil	78.91 Percent		78.9 Percent	1 ✓					8/24/15 10:38	N	IV
R1506803-016	Total Solids	N/A		Soil	87.55 Percent		87.5 Percent	1 ✓					8/24/15 10:38	N	IV
R1506803-017	Total Solids	N/A		Soil	81.74 Percent		81.7 Percent	1 ✓					8/24/15 10:38	N	IV
R1506803-018	Total Solids	N/A		Soil	77.48 Percent		77.5 Percent	1 ✓					8/24/15 10:38	N	IV
R1506803-028	Total Solids	N/A		Soil	33.56 Percent		33.6 Percent	1 ✓					8/24/15 10:38	N	IV
R1506803-029	Total Solids	N/A		Soil	37.21 Percent		37.2 Percent	1 ✓					8/24/15 10:38	N	IV
R1506803-030	Total Solids	N/A		Soil	39.24 Percent		39.2 Percent	1 ✓					8/24/15 10:38	N	IV
R1506803-031	Total Solids	N/A		Soil	68.70 Percent		68.7 Percent	1 ✓					8/24/15 10:38	N	IV
R1506803-032	Total Solids	N/A		Soil	40.32 Percent		40.3 Percent	1 ✓					8/24/15 10:38	N	IV
RQ1509739-02	Total Solids	DUP	R1506803-032	Soil	39.24 Percent		39.2 Percent	1 ✓				3	8/24/15 10:38	N	IV

# indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

00298

Analyte: % Volatile Solids  
 Method: SM20 2540G  
 Analytes: Dry Weight % Solid  
 Method : EPA-600 160.3

Analyst: KAW  
 Pipet: NA

Date: 8/24/15  
 Time: 10:38

Thermolyne F48025-6048000 Muffle Furnace

Balance ID R-BALANCE-17

Oven ID 2

Class 1 Weight Initial: 9.99

Final: 10.01

**% Volatile Solids:**

$$\% VS = (A - D) / (A - B) * 100$$

**% Solids:**

$$\% Solid = (A - B) / (C - B) * 100$$

Where: A = wgt (g) of dried residue + dish

B = wgt (g) of tared dish

C = wgt (g) of wet sample + dish

D = wgt (g) of residue + dish after ign. @550 C.

Misc.	Order #	Dish ID	Before Ignition / Wet Weight (g)	After Ignition / Dry Weight (g)	% Volatile Solids	% Solids
1	MB	1	C)	Dry wgt (A): 1.2900		1.00
			B)	1.3000		
2	R1506780-013	22	C)	Dry wgt (A): 10.0400		86.55
			B)	1.2900		
3	R1506780-014	23	C)	Dry wgt (A): 10.4600		90.88
			B)	1.2900		
4	R1506780-014 DUP	24	C)	Dry wgt (A): 10.5400		91.87
			B)	1.2800		
5	R1506916-001	25	C)	Dry wgt (A): 2.8500		15.20
			B)	1.2800		
6	Sample Metal Tin R1506956-002	26	C)	Dry wgt (A):	<del></del>	<del></del>
			B)	1.2900		
7	R1506581-005	27	C)	Dry wgt (A): 6.4600		50.15
			B)	1.2800		
8	R1506789-001	28	C)	Dry wgt (A): 5.6400		40.41
			B)	1.3000		
9	R1506789-002	29	C)	Dry wgt (A): 4.0700		27.75
			B)	1.2700		
10	R1506789-003	30	C)	Dry wgt (A): 6.1900		48.09
			B)	1.2800		
11	R1506789-004	31	C)	Dry wgt (A): 5.3300		40.26
			B)	1.3000		
12	R1506795-001	32	C)	Dry wgt (A): 9.8400		82.45
			B)	1.2900		
13	R1506835-001	33	C)	Dry wgt (A): 3.3100		19.38
			B)	1.3100		
14	R1506835-002	34	C)	Dry wgt (A): 4.0900		27.82
			B)	1.3000		
15	R1506835-003	35	C)	Dry wgt (A): 2.4400		11.06
			B)	1.2900		
16	R1506941-001	36	C)	Dry wgt (A): 1.7200		4.48
			B)	1.2600		
17	R1506765-034	37	C)	Dry wgt (A): 8.1400		67.89
			B)	1.2900		
18	R1506765-034 DUP	38	C)	Dry wgt (A): 8.1300		67.92
			B)	1.2900		
19	R1506765-035	39	C)	Dry wgt (A): 7.5900		60.10
			B)	1.2800		
20	R1506765-036	40	C)	Dry wgt (A): 9.6400		82.72
			B)	1.3100		

Analyte: % Volatile Solids  
 Method: SM20 2540G  
 Analytes: Dry Weight % Solid  
 Method : EPA-600 160.3

Analyst: KAW  
 Pipet: NA

Date: 8/24/15  
 Time: 10:38

Thermolyne F48025-6048000 Muffle Furnace

Balance ID R-BALANCE-17

Oven ID 2

Class 1 Weight Initial: 9.99

Final: 10.01

**% Volatile Solids:**

$$\% \text{ VS} = (A - D) / (A - B) * 100$$

**% Solids:**

$$\% \text{ Solid} = (A - B) / (C - B) * 100$$

Where: A = wgt (g) of dried residue + dish

B = wgt (g) of tared dish

C = wgt (g) of wet sample + dish

D = wgt (g) of residue + dish after ign. @550 C.

Misc.	Order #	Dish ID	Before Ignition / Wet Weight (g)	After Ignition / Dry Weight (g)	% Volatile Solids	% Solids
41	R1506803-028	61	C) 11.7100	Dry wgt (A): 4.8000		33.56
			B) 1.3100	550 wgt (D):		
42	R1506803-029	62	C) 11.6600	Dry wgt (A): 5.1800		37.21
			B) 1.3400	550 wgt (D):		
43	R1506803-030	63	C) 11.5500	Dry wgt (A): 5.3400		39.24
			B) 1.3300	550 wgt (D):		
44	R1506803-031	67	C) 11.9600	Dry wgt (A): 8.6200		68.70
			B) 1.2900	550 wgt (D):		
45	R1506803-032	68	C) 11.4200	Dry wgt (A): 5.3800		40.32
			B) 1.3000	550 wgt (D):		
46	R1506803-032 DUP	69	C) 11.3500	Dry wgt (A): 5.2500		39.24
			B) 1.3100	550 wgt (D):		

Analyte: % Volatile Solids  
 Method: SM20 2540G  
 Analytes: Dry Weight % Solid  
 Method : EPA-600 160.3

Analyst: KA  
 Pipet: NA

Date: 7/30/15  
 Time: 14:51

Thermolyne F48025-6048000 Muffle Furnace

Balance ID R-BALANCE-02

Oven ID 2

Class 1 Weight Initial: 99.9999

Final: 100.00

**% Volatile Solids:**

$$\% \text{ VS} = (A - D) / (A - B) * 100$$

**% Solids:**

$$\% \text{ Solid} = (A - B) / (C - B) * 100$$

Where: A = wgt (g) of dried residue + dish

B = wgt (g) of tared dish

C = wgt (g) of wet sample + dish

D = wgt (g) of residue + dish after ign. @550 C.

Misc.	Order #	Dish ID	Before Ignition / Wet Weight (g)		After Ignition / Dry Weight (g)		% Volatile Solids	% Solids
			C	B	Dry wgt (A)	550 wgt (D)		
1	MB	Y4	C		Dry wgt (A):	85.7587	0	1.00
			B	85.7585	550 wgt (D):	85.7590		
2	R1506039-001	BUD	C	108.5419	Dry wgt (A):	96.2498	53.99	51.04
			B	83.4363	550 wgt (D):	89.3314		

R1506920-001

**October 2015**





January 15, 2016

Service Request No:R1509132

Mr. William Crowe  
Environmental Planning Specialists  
1050 Crown Pointe Parkway  
Suite 550  
Atlanta, GA 30338

**Laboratory Results for: PPC**

Dear Mr.Crowe,

Enclosed are the results of the sample(s) submitted to our laboratory October 28, 2015  
For your reference, these analyses have been assigned our service request number **R1509132**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7472. You may also contact me via email at [Janice.Jaeger@alsglobal.com](mailto:Janice.Jaeger@alsglobal.com).

Respectfully submitted,

**ALS Group USA, Corp. dba ALS Environmental**

Janice Jaeger  
Project Manager

ADDRESS 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

PHONE +1 585 288 5380 | FAX +1 585 288 8475

ALS Group USA, Corp.

dba ALS Environmental

## CASE NARRATIVE

This report contains analytical results for the following samples:

Service Request Number: R1509132

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R1509132-001	15299-SB-31	10/26/2015	0943
R1509132-002	15299-SB-33	10/26/2015	0953
R1509132-003	15299-SB-32	10/26/2015	0948
R1509132-004	15299-SB-30	10/26/2015	0938
R1509132-005	15299-SB-29	10/26/2015	1046
R1509132-006	15299-SB-35	10/26/2015	1017
R1509132-007	15299-SB-34	10/26/2015	1030
R1509132-008	15299-SB-26	10/26/2015	1105
R1509132-009	15299-SB-28	10/26/2015	1156
R1509132-010	15299-SB-27	10/26/2015	1233
R1509132-011	15299-SD-10	10/26/2015	1450
R1509132-012	15299-SD-11	10/26/2015	1455
R1509132-013	15299-SD-12	10/26/2015	1500
R1509132-014	15299-SD-13	10/26/2015	1505
R1509132-015	15299-SD-14	10/26/2015	1510
R1509132-016	15300-MW-15	10/27/2015	1030
R1509132-017	15300-MW-16	10/27/2015	1145
R1509132-018	15300-MW-14	10/27/2015	1230

All samples were received in good condition unless otherwise noted on the cooler receipt and preservation check form located at the end of this report.

All samples were preserved in accordance with approved analytical methods.

All samples have been analyzed by the approved methods cited on the analytical results pages.

All holding times and associated QC were within limits.

No analytical or QC problems were encountered.

All sampling activities performed by ALS personnel have been in accordance with "ALS Field Procedures and Measurements Manual" or by client specifications.

## REPORT QUALIFIERS AND DEFINITIONS

<p><b>U</b> Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.</p> <p><b>J</b> Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration &gt;40% difference between two GC columns (pesticides/Aroclors).</p> <p><b>B</b> Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.</p> <p><b>E</b> Inorganics- Concentration is estimated due to the serial dilution was outside control limits.</p> <p><b>E</b> Organics- Concentration has exceeded the calibration range for that specific analysis.</p> <p><b>D</b> Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.</p> <p><b>*</b> Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.</p> <p><b>H</b> Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.</p> <p><b>#</b> Spike was diluted out.</p>	<p><b>+</b> Correlation coefficient for MSA is &lt;0.995.</p> <p><b>N</b> Inorganics- Matrix spike recovery was outside laboratory limits.</p> <p><b>N</b> Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.</p> <p><b>S</b> Concentration has been determined using Method of Standard Additions (MSA).</p> <p><b>W</b> Post-Digestion Spike recovery is outside control limits and the sample absorbance is &lt;50% of the spike absorbance.</p> <p><b>P</b> Concentration &gt;40% (25% for CLP) difference between the two GC columns.</p> <p><b>C</b> Confirmed by GC/MS</p> <p><b>Q</b> DoD reports: indicates a pesticide/Aroclor is not confirmed (<math>\times 100\%</math> Difference between two GC columns).</p> <p><b>X</b> See Case Narrative for discussion.</p> <p><b>MRL</b> Method Reporting Limit. Also known as:</p> <p><b>LOQ</b> Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.</p> <p><b>MDL</b> Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).</p> <p><b>LOD</b> Limit of Detection. A value at or above the MDL which has been verified to be detectable.</p> <p><b>ND</b> Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.</p>
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### Rochester Lab ID # for State Certifications<sup>1</sup>

Connecticut ID # PH0556	Maine ID #NY0032	New Hampshire ID #
Delaware Accredited	Nebraska Accredited	294100 A/B
DoD ELAP #65817	New Jersey ID # NY004	Pennsylvania ID# 68-786
Florida ID # E87674	New York ID # 10145	Rhode Island ID # 158
Illinois ID #200047	North Carolina #676	Virginia #460167

<sup>1</sup> Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads/North-America-Downloads>



## INORGANIC PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

### Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9014 Cyanide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Acid Soluble	9030B
9056A Bomb (Halogens)	5050A
9066 Manual Distillation	9065
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

### Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7196A	3060A
7199	3060A
9056A Halogens/Halides	5050
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction

For analytical methods not listed, the preparation method is the same as the analytical method reference.

ALS Group USA, Corp.  
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Analytical Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Soil  
**Sample Name:** 15299-SB-31  
**Lab Code:** R1509132-001

**Service Request:** R1509132  
**Date Collected:** 10/26/15 09:43  
**Date Received:** 10/27/15 08:10  
**Basis:** Dry

General Chemistry Parameters

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>PQL</b>	<b>MDL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Date Extracted</b>	<b>Q</b>
Chromium, Hexavalent	7199	<b>2.40</b>	mg/Kg	0.47	0.05	1	11/09/15 19:13	11/03/15	
Chromium, Hexavalent	7199	<b>2.40</b>	mg/Kg	0.47	0.05	1	11/09/15 19:21	11/03/15	

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Soil  
**Sample Name:** 15299-SB-31  
**Lab Code:** R1509132-001

**Service Request:** R1509132  
**Date Collected:** 10/26/15 09:43  
**Date Received:** 10/27/15 08:10  
**Basis:** As Received

General Chemistry Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>PQL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Date Extracted</u>	<u>Q</u>
Total Solids	ALS SOP	85.0	Percent	-	-	1	10/28/15 10:18	NA	

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Soil  
**Sample Name:** 15299-SB-33  
**Lab Code:** R1509132-002

**Service Request:** R1509132  
**Date Collected:** 10/26/15 09:53  
**Date Received:** 10/27/15 08:10  
**Basis:** Dry

General Chemistry Parameters

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>PQL</b>	<b>MDL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Date Extracted</b>	<b>Q</b>
Chromium, Hexavalent	7199	3.52	mg/Kg	0.47	0.05	1	11/09/15 19:28	11/03/15	
Chromium, Hexavalent	7199	3.50	mg/Kg	0.47	0.05	1	11/09/15 19:37	11/03/15	

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dba ALS Environmental

Analytical Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Soil  
**Sample Name:** 15299-SB-33  
**Lab Code:** R1509132-002

**Service Request:** R1509132  
**Date Collected:** 10/26/15 09:53  
**Date Received:** 10/27/15 08:10  
**Basis:** As Received

General Chemistry Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>PQL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Date Extracted</u>	<u>Q</u>
Total Solids	ALS SOP	82.8	Percent	-	-	1	10/28/15 10:18	NA	



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Analytical Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Soil  
**Sample Name:** 15299-SB-32  
**Lab Code:** R1509132-003

**Service Request:** R1509132  
**Date Collected:** 10/26/15 09:48  
**Date Received:** 10/27/15 08:10

**Basis:** Dry

General Chemistry Parameters

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>PQL</b>	<b>MDL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Date Extracted</b>	<b>Q</b>
Chromium, Hexavalent	7199	<b>4.60</b>	mg/Kg	0.49	0.06	1	11/09/15 19:44	11/03/15	
Chromium, Hexavalent	7199	<b>4.61</b>	mg/Kg	0.49	0.06	1	11/09/15 19:52	11/03/15	

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Analytical Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Soil  
**Sample Name:** 15299-SB-32  
**Lab Code:** R1509132-003

**Service Request:** R1509132  
**Date Collected:** 10/26/15 09:48  
**Date Received:** 10/27/15 08:10  
**Basis:** As Received

General Chemistry Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>PQL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Date Extracted</u>	<u>Q</u>
Total Solids	ALS SOP	<b>81.0</b>	Percent	-	-	1	10/28/15 10:18	NA	

ALS Group USA, Corp.  
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Analytical Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Soil  
**Sample Name:** 15299-SB-30  
**Lab Code:** R1509132-004

**Service Request:** R1509132  
**Date Collected:** 10/26/15 09:38  
**Date Received:** 10/27/15 08:10  
**Basis:** Dry

General Chemistry Parameters

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>PQL</b>	<b>MDL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Date Extracted</b>	<b>Q</b>
Chromium, Hexavalent	7199	3.04	mg/Kg	0.50	0.06	1	11/09/15 20:08	11/03/15	
Chromium, Hexavalent	7199	3.04	mg/Kg	0.50	0.06	1	11/09/15 19:59	11/03/15	

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Analytical Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Soil  
**Sample Name:** 15299-SB-30  
**Lab Code:** R1509132-004

**Service Request:** R1509132  
**Date Collected:** 10/26/15 09:38  
**Date Received:** 10/27/15 08:10  
**Basis:** As Received

General Chemistry Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>PQL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Date Extracted</u>	<u>Q</u>
Total Solids	ALS SOP	78.7	Percent	-	-	1	10/28/15 10:18	NA	

ALS Group USA, Corp.  
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Analytical Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Soil  
**Sample Name:** 15299-SB-29  
**Lab Code:** R1509132-005

**Service Request:** R1509132  
**Date Collected:** 10/26/15 10:46  
**Date Received:** 10/27/15 08:10  
**Basis:** Dry

General Chemistry Parameters

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>PQL</b>	<b>MDL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Date Extracted</b>	<b>Q</b>
Chromium, Hexavalent	7199	<b>0.37 J</b>	mg/Kg	0.46	0.05	1	11/09/15 20:32	11/03/15	
Chromium, Hexavalent	7199	<b>0.37 J</b>	mg/Kg	0.46	0.05	1	11/09/15 20:41	11/03/15	

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Soil  
**Sample Name:** 15299-SB-29  
**Lab Code:** R1509132-005

**Service Request:** R1509132  
**Date Collected:** 10/26/15 10:46  
**Date Received:** 10/27/15 08:10  
**Basis:** As Received

General Chemistry Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>PQL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Date Extracted</u>	<u>Q</u>
Total Solids	ALS SOP	86.1	Percent	-	-	1	10/28/15 10:18	NA	

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Soil  
**Sample Name:** 15299-SB-35  
**Lab Code:** R1509132-006

**Service Request:** R1509132  
**Date Collected:** 10/26/15 10:17  
**Date Received:** 10/27/15 08:10  
**Basis:** Dry

General Chemistry Parameters

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>PQL</b>	<b>MDL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Date Extracted</b>	<b>Q</b>
Chromium, Hexavalent	7199	3.57	mg/Kg	0.49	0.06	1	11/09/15 20:48	11/03/15	
Chromium, Hexavalent	7199	3.56	mg/Kg	0.49	0.06	1	11/09/15 20:56	11/03/15	

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Soil  
**Sample Name:** 15299-SB-35  
**Lab Code:** R1509132-006

**Service Request:** R1509132  
**Date Collected:** 10/26/15 10:17  
**Date Received:** 10/27/15 08:10  
**Basis:** As Received

General Chemistry Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>PQL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Date Extracted</u>	<u>Q</u>
Total Solids	ALS SOP	78.8	Percent	-	-	1	10/28/15 10:18	NA	



ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Soil  
**Sample Name:** 15299-SB-34  
**Lab Code:** R1509132-007

**Service Request:** R1509132  
**Date Collected:** 10/26/15 10:30  
**Date Received:** 10/27/15 08:10  
**Basis:** Dry

General Chemistry Parameters

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>PQL</b>	<b>MDL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Date Extracted</b>	<b>Q</b>
Chromium, Hexavalent	7199	<b>3.10</b>	mg/Kg	0.48	0.05	1	11/09/15 22:29	11/03/15	
Chromium, Hexavalent	7199	<b>3.10</b>	mg/Kg	0.48	0.05	1	11/09/15 22:21	11/03/15	

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Analytical Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Soil  
**Sample Name:** 15299-SB-34  
**Lab Code:** R1509132-007

**Service Request:** R1509132  
**Date Collected:** 10/26/15 10:30  
**Date Received:** 10/27/15 08:10  
**Basis:** As Received

General Chemistry Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>PQL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Date Extracted</u>	<u>Q</u>
Total Solids	ALS SOP	83.4	Percent	-	-	1	10/28/15 10:18	NA	

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Analytical Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Soil  
**Sample Name:** 15299-SB-26  
**Lab Code:** R1509132-008

**Service Request:** R1509132  
**Date Collected:** 10/26/15 11:05  
**Date Received:** 10/27/15 08:10  
**Basis:** Dry

General Chemistry Parameters

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>PQL</b>	<b>MDL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Date Extracted</b>	<b>Q</b>
Chromium, Hexavalent	7199	<b>2.14</b>	mg/Kg	0.43	0.05	1	11/09/15 22:36	11/03/15	
Chromium, Hexavalent	7199	<b>2.16</b>	mg/Kg	0.43	0.05	1	11/09/15 22:44	11/03/15	

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Analytical Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Soil  
**Sample Name:** 15299-SB-26  
**Lab Code:** R1509132-008

**Service Request:** R1509132  
**Date Collected:** 10/26/15 11:05  
**Date Received:** 10/27/15 08:10  
**Basis:** As Received

General Chemistry Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>PQL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Date Extracted</u>	<u>Q</u>
Total Solids	ALS SOP	92.6	Percent	-	-	1	10/28/15 10:18	NA	

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Analytical Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Soil  
**Sample Name:** 15299-SB-28  
**Lab Code:** R1509132-009

**Service Request:** R1509132  
**Date Collected:** 10/26/15 11:56  
**Date Received:** 10/27/15 08:10  
**Basis:** Dry

General Chemistry Parameters

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>PQL</b>	<b>MDL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Date Extracted</b>	<b>Q</b>
Chromium, Hexavalent	7199	<b>0.29 J</b>	mg/Kg	0.45	0.05	1	11/09/15 22:51	11/03/15	
Chromium, Hexavalent	7199	<b>0.29 J</b>	mg/Kg	0.45	0.05	1	11/09/15 23:00	11/03/15	

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Analytical Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Soil  
**Sample Name:** 15299-SB-28  
**Lab Code:** R1509132-009

**Service Request:** R1509132  
**Date Collected:** 10/26/15 11:56  
**Date Received:** 10/27/15 08:10  
**Basis:** As Received

General Chemistry Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>PQL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Date Extracted</u>	<u>Q</u>
Total Solids	ALS SOP	85.5	Percent	-	-	1	10/28/15 10:18	NA	

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Analytical Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Soil  
**Sample Name:** 15299-SB-27  
**Lab Code:** R1509132-010

**Service Request:** R1509132  
**Date Collected:** 10/26/15 12:33  
**Date Received:** 10/27/15 08:10  
**Basis:** Dry

General Chemistry Parameters

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>PQL</b>	<b>MDL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Date Extracted</b>	<b>Q</b>
Chromium, Hexavalent	7199	<b>2.65</b>	mg/Kg	0.46	0.05	1	11/09/15 23:07	11/03/15	
Chromium, Hexavalent	7199	<b>2.64</b>	mg/Kg	0.46	0.05	1	11/09/15 23:15	11/03/15	

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Analytical Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Soil  
**Sample Name:** 15299-SB-27  
**Lab Code:** R1509132-010

**Service Request:** R1509132  
**Date Collected:** 10/26/15 12:33  
**Date Received:** 10/27/15 08:10  
**Basis:** As Received

General Chemistry Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>PQL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Date Extracted</u>	<u>Q</u>
Total Solids	ALS SOP	87.2	Percent	-	-	1	10/28/15 10:18	NA	



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Analytical Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Soil  
**Sample Name:** 15299-SD-10  
**Lab Code:** R1509132-011

**Service Request:** R1509132  
**Date Collected:** 10/26/15 14:50  
**Date Received:** 10/27/15 08:10  
**Basis:** Dry

General Chemistry Parameters

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>PQL</b>	<b>MDL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Date Extracted</b>	<b>Q</b>
Chromium, Hexavalent	7199	5.27	mg/Kg	0.76	0.08	1	11/09/15 23:40	11/03/15	
Chromium, Hexavalent	7199	5.27	mg/Kg	0.76	0.08	1	11/09/15 23:48	11/03/15	

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Analytical Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Soil  
**Sample Name:** 15299-SD-10  
**Lab Code:** R1509132-011

**Service Request:** R1509132  
**Date Collected:** 10/26/15 14:50  
**Date Received:** 10/27/15 08:10  
**Basis:** As Received

General Chemistry Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>PQL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Date Extracted</u>	<u>Q</u>
Total Solids	ALS SOP	51.9	Percent	-	-	1	10/28/15 10:18	NA	

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Analytical Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Soil  
**Sample Name:** 15299-SD-11  
**Lab Code:** R1509132-012

**Service Request:** R1509132  
**Date Collected:** 10/26/15 14:55  
**Date Received:** 10/27/15 08:10  
**Basis:** Dry

General Chemistry Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>PQL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Date Extracted</u>	<u>Q</u>
Chromium, Hexavalent	7199	<b>6.12</b>	mg/Kg	0.73	0.08	1	11/10/15 00:04	11/03/15	
Chromium, Hexavalent	7199	<b>6.32</b>	mg/Kg	0.73	0.08	1	11/09/15 23:55	11/03/15	

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Analytical Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Soil  
**Sample Name:** 15299-SD-11  
**Lab Code:** R1509132-012

**Service Request:** R1509132  
**Date Collected:** 10/26/15 14:55  
**Date Received:** 10/27/15 08:10  
**Basis:** As Received

General Chemistry Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>PQL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Date Extracted</u>	<u>Q</u>
Total Solids	ALS SOP	53.9	Percent	-	-	1	10/28/15 10:18	NA	

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Analytical Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Soil  
**Sample Name:** 15299-SD-12  
**Lab Code:** R1509132-013

**Service Request:** R1509132  
**Date Collected:** 10/26/15 15:00  
**Date Received:** 10/27/15 08:10  
**Basis:** Dry

General Chemistry Parameters

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>PQL</b>	<b>MDL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Date Extracted</b>	<b>Q</b>
Chromium, Hexavalent	7199	<b>1.37</b>	mg/Kg	0.72	0.08	1	11/10/15 00:19	11/03/15	
Chromium, Hexavalent	7199	<b>1.36</b>	mg/Kg	0.72	0.08	1	11/10/15 00:11	11/03/15	

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Analytical Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Soil  
**Sample Name:** 15299-SD-12  
**Lab Code:** R1509132-013

**Service Request:** R1509132  
**Date Collected:** 10/26/15 15:00  
**Date Received:** 10/27/15 08:10  
**Basis:** As Received

General Chemistry Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>PQL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Date Extracted</u>	<u>Q</u>
Total Solids	ALS SOP	54.4	Percent	-	-	1	10/28/15 10:18	NA	

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Analytical Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Soil  
**Sample Name:** 15299-SD-13  
**Lab Code:** R1509132-014

**Service Request:** R1509132  
**Date Collected:** 10/26/15 15:05  
**Date Received:** 10/27/15 08:10  
**Basis:** Dry

General Chemistry Parameters

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>PQL</b>	<b>MDL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Date Extracted</b>	<b>Q</b>
Chromium, Hexavalent	7199	<b>0.25 J</b>	mg/Kg	0.61	0.07	1	11/10/15 00:34	11/03/15	
Chromium, Hexavalent	7199	<b>0.25 J</b>	mg/Kg	0.61	0.07	1	11/10/15 00:26	11/03/15	

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Analytical Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Soil  
**Sample Name:** 15299-SD-13  
**Lab Code:** R1509132-014

**Service Request:** R1509132  
**Date Collected:** 10/26/15 15:05  
**Date Received:** 10/27/15 08:10  
**Basis:** As Received

General Chemistry Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>PQL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Date Extracted</u>	<u>Q</u>
Total Solids	ALS SOP	64.6	Percent	-	-	1	10/28/15 10:18	NA	



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Analytical Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Soil  
**Sample Name:** 15299-SD-14  
**Lab Code:** R1509132-015

**Service Request:** R1509132  
**Date Collected:** 10/26/15 15:10  
**Date Received:** 10/27/15 08:10  
**Basis:** Dry

General Chemistry Parameters

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>PQL</b>	<b>MDL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Date Extracted</b>	<b>Q</b>
Chromium, Hexavalent	7199	<b>0.82</b>	mg/Kg	0.62	0.07	1	11/10/15 00:41	11/03/15	
Chromium, Hexavalent	7199	<b>0.83</b>	mg/Kg	0.62	0.07	1	11/10/15 00:50	11/03/15	

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Analytical Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Soil  
**Sample Name:** 15299-SD-14  
**Lab Code:** R1509132-015

**Service Request:** R1509132  
**Date Collected:** 10/26/15 15:10  
**Date Received:** 10/27/15 08:10  
**Basis:** As Received

General Chemistry Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>PQL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Date Extracted</u>	<u>Q</u>
Total Solids	ALS SOP	62.8	Percent	-	-	1	10/28/15 10:18	NA	

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Analytical Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Water  
**Sample Name:** 15300-MW-15  
**Lab Code:** R1509132-016

**Service Request:** R1509132  
**Date Collected:** 10/27/15 10:30  
**Date Received:** 10/28/15 08:15  
**Basis:** NA

General Chemistry Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>PQL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Chromium, Hexavalent, Dissolved	218.6 LL	0.020 U	ug/L	0.020	0.010	1	11/06/15 23:42	

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Analytical Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Water  
**Sample Name:** 15300-MW-16  
**Lab Code:** R1509132-017

**Service Request:** R1509132  
**Date Collected:** 10/27/15 11:45  
**Date Received:** 10/28/15 08:15  
**Basis:** NA

General Chemistry Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>PQL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Chromium, Hexavalent, Dissolved	218.6 LL	0.020 U	ug/L	0.020	0.010	1	11/06/15 23:57	

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Analytical Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Water  
**Sample Name:** 15300-MW-14  
**Lab Code:** R1509132-018

**Service Request:** R1509132  
**Date Collected:** 10/27/15 12:30  
**Date Received:** 10/28/15 08:15  
**Basis:** NA

General Chemistry Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>PQL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Chromium, Hexavalent, Dissolved	218.6 LL	0.020 U	ug/L	0.020	0.010	1	11/07/15 00:11	

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Analytical Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Water  
**Sample Name:** Method Blank  
**Lab Code:** R1509132-MB1

**Service Request:** R1509132  
**Date Collected:** NA  
**Date Received:** NA  
**Basis:** NA

General Chemistry Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>PQL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Chromium, Hexavalent, Dissolved	218.6 LL	0.020 U	ug/L	0.020	0.010	1	11/06/15 19:51	

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Analytical Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Soil  
**Sample Name:** Method Blank  
**Lab Code:** R1509132-MB2

**Service Request:** R1509132  
**Date Collected:** NA  
**Date Received:** NA  
**Basis:** Dry

General Chemistry Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>PQL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Date Extracted</u>	<u>Q</u>
Chromium, Hexavalent	7199	0.40 U	mg/Kg	0.40	0.05	1	11/09/15 18:34	11/03/15	
Chromium, Hexavalent	7199	0.40 U	mg/Kg	0.40	0.05	1	11/09/15 18:27	11/03/15	

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QA/QC Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Water

**Service Request:** R1509132  
**Date Analyzed:** 11/06/15

**Lab Control Sample Summary**  
**General Chemistry Parameters**

**Units:**ug/L  
**Basis:**NA

**Lab Control Sample**  
R1509132-LCS2

<u>Analyte Name</u>	<u>Analytical Method</u>	<u>Result</u>	<u>Spike Amount</u>	<u>% Rec</u>	<u>% Rec Limits</u>
Chromium, Hexavalent, Dissolved	218.6 LL	0.201	0.200	101	90-110



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QA/QC Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Soil

**Service Request:** R1509132  
**Date Analyzed:** 11/09/15

**Lab Control Sample Summary**  
**General Chemistry Parameters**

**Units:**mg/Kg  
**Basis:**Dry

**Lab Control Sample**  
R1509132-LCS1

<b>Analyte Name</b>	<b>Analytical Method</b>	<b>Result</b>	<b>Spike Amount</b>	<b>% Rec</b>	<b>% Rec Limits</b>
Chromium, Hexavalent	7199	630	650	97	80-120
Chromium, Hexavalent	7199	642	650	99	80-120

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QA/QC Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Soil

**Service Request:** R1509132  
**Date Collected:** 10/26/15  
**Date Received:** 10/27/15  
**Date Analyzed:** 11/09/15

**Replicate Sample Summary**  
**General Chemistry Parameters**

**Sample Name:** 15299-SB-35  
**Lab Code:** R1509132-006

**Units:** mg/Kg  
**Basis:** Dry

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>PQL</b>	<b>MDL</b>	<b>Sample Result</b>	<b>Duplicate Sample R1509132-006DUP Result</b>	<b>Average</b>	<b>RPD</b>	<b>RPD Limit</b>
Chromium, Hexavalent	7199	0.49	0.06	3.56	3.62	3.59	2	20
Chromium, Hexavalent	7199	0.49	0.06	3.57	3.64	3.60	2	20

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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QA/QC Report

**Client:** Environmental Planning Specialists  
**Project** PPC  
**Sample Matrix:** Soil

**Service Request:** R1509132  
**Date Collected:** 10/26/15  
**Date Received:** 10/27/15  
**Date Analyzed:** 10/28/15

**Replicate Sample Summary**  
**General Chemistry Parameters**

**Sample Name:** 15299-SB-32  
**Lab Code:** R1509132-003

**Units:** Percent  
**Basis:** As Received

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>PQL</u>	<u>Sample Result</u>	<u>Duplicate Sample R1509132-003DUP Result</u>	<u>Average</u>	<u>RPD</u>	<u>RPD Limit</u>
Total Solids	ALS SOP	-	81.0	81.3	81.1	<1	20

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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QA/QC Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Soil

**Service Request:** R1509132  
**Date Collected:** 10/26/15  
**Date Received:** 10/27/15  
**Date Analyzed:** 10/28/15

**Replicate Sample Summary**  
**General Chemistry Parameters**

**Sample Name:** 15299-SB-29  
**Lab Code:** R1509132-005

**Units:** Percent  
**Basis:** As Received

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>PQL</u>	<u>Sample Result</u>	<u>Duplicate Sample R1509132-005DUP Result</u>	<u>Average</u>	<u>RPD</u>	<u>RPD Limit</u>
Total Solids	ALS SOP	-	86.1	87.9	87.0	2	20

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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QA/QC Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Soil

**Service Request:** R1509132  
**Date Collected:** 10/26/15  
**Date Received:** 10/27/15  
**Date Analyzed:** 11/9/15  
**Date Extracted:** 11/3/15

**Matrix Spike Summary**  
**Chromium, Hexavalent**

**Sample Name:** 15299-SB-35  
**Lab Code:** R1509132-006  
**Analysis Method:** 7199  
**Prep Method:** EPA 3060A

**Units:** mg/Kg  
**Basis:** Dry

**Matrix Spike**  
R1509132-006MS1

<u>Analyte Name</u>	<u>Sample Result</u>	<u>Result</u>	<u>Spike Amount</u>	<u>% Rec</u>	<u>% Rec Limits</u>
Chromium, Hexavalent	3.57	49.3	49.6	92	75-125
Chromium, Hexavalent	3.56	49.2	49.6	92	75-125

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Environmental Planning Specialists  
**Project:** PPC  
**Sample Matrix:** Soil

**Service Request:** R1509132  
**Date Collected:** 10/26/15  
**Date Received:** 10/27/15  
**Date Analyzed:** 11/9/15  
**Date Extracted:** 11/3/15

**Matrix Spike Summary**  
**Chromium, Hexavalent**

**Sample Name:** 15299-SB-35  
**Lab Code:** R1509132-006  
**Analysis Method:** 7199  
**Prep Method:** EPA 3060A

**Units:** mg/Kg  
**Basis:** Dry

**Matrix Spike**  
R1509132-006MS2

<b>Analyte Name</b>	<b>Sample Result</b>	<b>Result</b>	<b>Spike Amount</b>	<b>% Rec</b>	<b>% Rec Limits</b>
Chromium, Hexavalent	3.56	740	793	93	75-125
Chromium, Hexavalent	3.57	742	793	93	75-125

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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PAGE 1 OF 2

Project Name: pc Project Number: \_\_\_\_\_ ANALYSIS REQUESTED (include Method Number and Container Preservative)

Project Manager: Kirk Kessler Report CC: \_\_\_\_\_ PRESERVATIVE: \_\_\_\_\_

Company/Address: EPS PRESERVATIVE: \_\_\_\_\_

1050 Crown Pointe PRESERVATIVE: \_\_\_\_\_

Atlanta GA PRESERVATIVE: \_\_\_\_\_

Phone #: 404-315-9113 Email: Mueller-goetze@envplanning.com

Sampler's Signature: Hilber-Goetze Sample's Printed Name: M. W. BERK-GOETZE

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	DATE	SAMPLING		MATRIX	NUMBER OF CONTAINERS	GC/MS VOAs o 8260 o 624 o CLP	GC/MS SVOAs o 8270 o 625	GC VOAs o 8021 o 601/602	PESTICIDES o 8081 o 608	PCBs o 8082 o 608	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	REMARKS/ ALTERNATE DESCRIPTION
			TIME											
15299-58-31		10/26/15	0943		Soil	1								
15299-58-33		10/26/15	0953		Soil	1								
15299-58-32		10/26/15	0948		Soil	1								
15299-58-30		10/26/15	0938		Soil	1								
15299-58-29		10/26/15	1046		Soil	1								
15299-58-35		10/26/15	1012		Soil	1								
15299-58-34		10/26/15	1030		Soil	1								
15299-58-26		10/26/15	1105		Soil	1								
15299-58-28		10/26/15	1156		Soil	1								
15299-58-22		10/26/15	1233		Soil	1								

SPECIAL INSTRUCTIONS/COMMENTS: \_\_\_\_\_

Metals: \_\_\_\_\_

TURNAROUND REQUIREMENTS (RUSH (SURCHARGES APPLY))  
 1 day \_\_\_\_\_ 2 day  3 day \_\_\_\_\_  
 4 day \_\_\_\_\_

REQUESTED REPORT DATE: \_\_\_\_\_

REPORT REQUIREMENTS  
 I. Results Only \_\_\_\_\_  
 II. Results + QC Summaries (LOS, DUP, MS/MSD as required)  
 III. Results + QC and Calibration Summaries \_\_\_\_\_  
 IV. Data Validation Report with Raw Data \_\_\_\_\_

Edata  Yes  No

STATE WHERE SAMPLES WERE COLLECTED: \_\_\_\_\_

RELINQUISHED BY: \_\_\_\_\_ RECEIVED BY: \_\_\_\_\_

RELINQUISHED BY: \_\_\_\_\_ RECEIVED BY: \_\_\_\_\_

RELINQUISHED BY: \_\_\_\_\_ RECEIVED BY: \_\_\_\_\_

RELINQUISHED BY: \_\_\_\_\_ RECEIVED BY: \_\_\_\_\_

Invoice Information: PO # \_\_\_\_\_ BILL TO: \_\_\_\_\_

Barcode: **R1509132** **5**

Environmental Planning Specialists  
Hexavalent chromium

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PAGE 2 OF 2

Project Name: **PPC** Report CG: \_\_\_\_\_ ANALYSIS REQUESTED (Include Method Number and Container Preservative): \_\_\_\_\_

Project Manager: **Kirk Kessler** Report CG: \_\_\_\_\_

Company/Address: **EPS** 1650 Crown Point Atlanta, GA

Phone #: **404-315-9113** Email: **muebe-goele@envplan.com**

Sampler's Signature: **Muebe-Goele** Sampler's Printed Name: **M. WENGER-GOELKE**

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOAs o 8260 o 624 o CLP	GC/MS SVOAs o 8270 o 625	GC VOAs o 8021 o 601/602	PESTICIDES o 8081 o 608	PCBs o 8082 o 608	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	PRESERVATIVE KEY	REMARKS/ ALTERNATE DESCRIPTION
15299-50-10		10/26/15	1450	SD	1								0. NONE 1. HCL 2. HNO3 3. H2SO4 4. NaOH 5. Zn Acetate 6. MeOH 7. NaHSO4 8. Other _____	
15299-50-11		10/26/15	1455	SD	1									
15299-50-12		10/26/15	1500	SD	1									
15299-50-13		10/26/15	1505	SD	1									
15299-50-14		10/26/15	1510	SD	1									

SPECIAL INSTRUCTIONS/COMMENTS: \_\_\_\_\_

Metals: \_\_\_\_\_

TURNAROUND REQUIREMENTS: RUSH (SURCHARGES APPLY) 1 day \_\_\_\_\_ 2 day  3 day \_\_\_\_\_

REQUESTED REPORT DATE: \_\_\_\_\_

REPORT REQUIREMENTS: I. Results Only \_\_\_\_\_ II. Results + OC Summaries (LCS, DUP, MSMSD as required)  III. Results + OC and Calibration Summaries \_\_\_\_\_ IV. Data Validation Report with Raw Data \_\_\_\_\_

Edala  Yes \_\_\_\_\_ No

INVOICE INFORMATION: PO # \_\_\_\_\_ BILL TO: \_\_\_\_\_

RELINQUISHED BY: \_\_\_\_\_ RECEIVED BY: \_\_\_\_\_

Signature: \_\_\_\_\_ Printed Name: \_\_\_\_\_ Date/Time: \_\_\_\_\_

**R1509132**  
Environmental Planning Specialists  
Hexavalent chromium  
**5**







# Cooler Receipt and Preservation Check Form

R1509132

5

Environmental Planning Specialists  
Hexavalent chromium



Project/Client EPS Folder Number \_\_\_\_\_

Cooler received on 10/27/15 by: @

COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	<input checked="" type="radio"/> Y <input type="radio"/> N
2	Custody papers properly completed (ink, signed)?	<input checked="" type="radio"/> Y <input type="radio"/> N
3	Did all bottles arrive in good condition (unbroken)?	<input checked="" type="radio"/> Y <input type="radio"/> N
4	Circle: <u>Wet Ice</u> Dry Ice Gel packs present?	<input checked="" type="radio"/> Y <input type="radio"/> N

5a	Perchlorate samples have required headspace?	Y N <u>NA</u>
5b	Did VOA vials, Alk, or Sulfide have sig* bubbles?	Y N <u>NA</u>
6	Where did the bottles originate?	<u>ALS/ROC</u> CLIENT
7	Soil VOA received as:	Bulk Encore 5035set <u>NA</u>

8. Temperature Readings Date: 10/27/15 Time: 0810 ID: IR#3 IR#5 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>2.7</u>						
Correction Factor (°C)	<u>+0.5</u>						
Corrected Temp (°C)	<u>3.2</u>						
Within 0-6°C?	<input checked="" type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N
If <0°C, were samples frozen?	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N

If out of Temperature, note packing/ice condition: \_\_\_\_\_ Ice melted \_\_\_\_\_ Poorly Packed \_\_\_\_\_ Same Day Rule \_\_\_\_\_

& Client Approval to Run Samples: \_\_\_\_\_ Standing Approval \_\_\_\_\_ Client aware at drop-off \_\_\_\_\_ Client notified by: \_\_\_\_\_

All samples held in storage location: R-002 by @ on 10/27/15 at 0817  
 5035 samples placed in storage location: \_\_\_\_\_ by \_\_\_\_\_ on \_\_\_\_\_ at \_\_\_\_\_

PC Secondary Review: JMW 10/27/15

Cooler Breakdown: Date: 10/27/15 Time: 0832 by: JAD

- Were all bottle labels complete (i.e. analysis, preservation, etc.)?  YES  NO
- Did all bottle labels and tags agree with custody papers?  YES  NO
- Were correct containers used for the tests indicated?  YES  NO
- Air Samples: Cassettes / Tubes Intact \_\_\_\_\_ Canisters Pressurized \_\_\_\_\_ Tedlar® Bags Inflated NA

Explain any discrepancies:

pH	Reagent	Yes	No	Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
≥12	NaOH								
≤2	HNO <sub>3</sub>								
<2	H <sub>2</sub> SO <sub>4</sub>								
<4	NaHSO <sub>4</sub>								
Residual Chlorine (-)	For CN Phenol and 522			If +, contact PM to add Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (CN), ascorbic (phenol).					
	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	-	-						
	ZnAcetate	-	-						
	HCl	**	**						

Yes=All samples OK  
 No=Samples were preserved at The lab as listed  
 PM OK to Adjust: \_\_\_\_\_

\*\*Not to be tested before analysis – pH tested and recorded by VOAs on a separate worksheet

Bottle lot numbers: 082415-18NS  
Other Comments: \_\_\_\_\_

PC Secondary Review: JMW 10/27/15 \*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter



# CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

31840

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Project Name: **PPC** Project Number: \_\_\_\_\_ ANALYSIS REQUESTED (Include Method Number and Container Preservative)

Project Manager: **Kirk Kessler** Report ID: \_\_\_\_\_ PRESERVATIVE: \_\_\_\_\_

Company/Address: **EPS INC.** PREPARATIVE KEY: 0. NONE, 1. HCL, 2. HNO<sub>3</sub>, 3. H<sub>2</sub>SO<sub>4</sub>, 4. NaOH, 5. Zn Acetate, 6. MeOH, 7. NaHSO<sub>4</sub>, 8. Other \_\_\_\_\_

1050 Crown Point Parkway

Atlanta, GA

Phone #: **404-315-9113** Email: **muebe-goehel@envplanning.com**

Sampler's Signature: **Muebe-Goehel** Sampler's Printed Name: **MUEBE-GOEHEL**

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	DATE SAMPLING	TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOAs o 8260 o 624 o CLP o 8270 o 625	GC/MS SVQAs o 8021 o 601/602	PESTICIDES o 8081 o 608	PCBs o 8082 o 608	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	REMARKS/ALTERNATE DESCRIPTION
15300-MW-15		10/27/15	1030	GW	1							Filtered in Field
15300-MW-16		10/27/15	1145	GW	1							Filtered in Field
15300-MW-14		10/27/15	1230	GW	1							Filtered in Field

SPECIAL INSTRUCTIONS/COMMENTS: \_\_\_\_\_

Metals: \_\_\_\_\_

TURNAROUND REQUIREMENTS: RUSH (SURCHARGES APPLY) 1 day, 2 day, 3 day, 4 day, 5 day, 6 day

REPORT REQUIREMENTS: I. Results Only, II. Results + QC Summaries (LCS, DUP, MS/MSD as required), III. Results + QC and Calibration Summaries, IV. Data Validation Report

INVOICE INFORMATION: PO #, BILL TO: **R1509132**, Environmental Planning Specialists, **5**

STATE WHERE SAMPLES WERE COLLECTED: \_\_\_\_\_

RELINQUISHED BY: \_\_\_\_\_ RECEIVED BY: \_\_\_\_\_

Signature: **Muebe-Goehel** Signature: **Muebe-Goehel**

Printed Name: **MUEBE-GOEHEL** Printed Name: **MUEBE-GOEHEL**

Firm: **EPS, INC** Firm: **ALS**

Date/Time: **10/27/15-1330** Date/Time: **10/28/15 1330**





# Cooler Receipt and Preservation Check Form

R1509132  
Environmental Planning Specialists  
PPC

5



Project/Client EPS Folder Number R15-9132

Cooler received on 10/28/15 by: MDS COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	<input checked="" type="radio"/> Y	<input type="radio"/> N
2	Custody papers properly completed (ink, signed)?	<input checked="" type="radio"/> Y	<input type="radio"/> N
3	Did all bottles arrive in good condition (unbroken)?	<input checked="" type="radio"/> Y	<input type="radio"/> N
4	Circle: <u>Wet Ice</u> Dry Ice Gel packs present?	<input checked="" type="radio"/> Y	<input type="radio"/> N

5a	Perchlorate samples have required headspace?	<input type="radio"/> Y	<input type="radio"/> N	<input checked="" type="radio"/> NA
5b	Did VOA vials, Alk, or Sulfide have sig* bubbles?	<input type="radio"/> Y	<input type="radio"/> N	<input checked="" type="radio"/> NA
6	Where did the bottles originate?	<u>ALS/ROC</u>	CLIENT	
7	Soil VOA received as:	Bulk	Encore	5035set <input checked="" type="radio"/> NA

8. Temperature Readings Date: 10/28/15 Time: 0804 ID: IR#3 IR#5 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>3.6</u>							
Correction Factor (°C)	<u>+1.0</u>							
Corrected Temp (°C)	<u>4.6</u>							
Within 0-6°C?	<input checked="" type="radio"/> Y	<input type="radio"/> N	<input type="radio"/> Y	<input type="radio"/> N	<input type="radio"/> Y	<input type="radio"/> N	<input type="radio"/> Y	<input type="radio"/> N
If <0°C, were samples frozen?	<input type="radio"/> Y	<input type="radio"/> N	<input type="radio"/> Y	<input type="radio"/> N	<input type="radio"/> Y	<input type="radio"/> N	<input type="radio"/> Y	<input type="radio"/> N

If out of Temperature, note packing/ice condition: \_\_\_\_\_ Ice melted Poorly Packed Same Day Rule

& Client Approval to Run Samples: \_\_\_\_\_ Standing Approval Client aware at drop-off Client notified by: \_\_\_\_\_

All samples held in storage location: R-002 by MDS on 10/28/15 at 0804  
5035 samples placed in storage location: \_\_\_\_\_ by \_\_\_\_\_ on \_\_\_\_\_ at \_\_\_\_\_

PC Secondary Review: MDS 10/29/15

Cooler Breakdown: Date: 10/28/15 Time: 0905 by: MAC

- Were all bottle labels complete (i.e. analysis, preservation, etc.)?  YES  NO
- Did all bottle labels and tags agree with custody papers?  YES  NO
- Were correct containers used for the tests indicated?  YES  NO
- Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated  N/A

Explain any discrepancies:

pH	Reagent	Yes	No	Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
≥12	NaOH								
≤2	HNO <sub>3</sub>								
≤2	H <sub>2</sub> SO <sub>4</sub>								
<4	NaHSO <sub>4</sub>								
Residual Chlorine (-)	For CN Phenol and 522			If +, contact PM to add Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (CN), ascorbic (phenol).					
	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	-	-						
	ZnAcetate	-	-						
	HCl	**	**						

Yes=All samples OK

No=Samples were preserved at The lab as listed

PM OK to Adjust:

\*\*Not to be tested before analysis - pH tested and recorded by VOAs on a separate worksheet

Bottle lot numbers: 081015-1AA0

Other Comments:

Cr+6 Buffer: 85124 ; 10116

3 218.6  
10/27

1030-1230

PC Secondary Review: MDS 10/29/15 \*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter