Phase II Environmental Site Assessment Report

Grim Hotel
301 North State Line Avenue
Texarkana, Texas 75501
EPA Region 6 Brownfields Community Wide Assessment
Petroleum Substance Grant
EPA Cooperative Agreement No. BF-00F20201-0

Project No. 35107140, Task 4-16
May 27, 2015

Prepared for:
City of Texarkana, Texas
Texarkana, Texas

Prepared by:
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May 27, 2015

Daphnea Ryan
Dept. of Community Redevelopment and Grants
P.O. Box 1967
Texarkana, Texas 75504

Attn: Daphnea Ryan
P: 903.798.3977

Re: Phase II Environmental Site Assessment (ESA)
Grim Hotel
301 North State Line Avenue
Texarkana, Texas
Terracon Project No. 35107140

Dear Ms. Ryan:

Terracon is pleased to submit the Phase II Environmental Site Assessment (ESA) report for the above-referenced site. This investigation was performed as part of a United States Environmental Protection Agency, Region 6 (EPA) Brownfields Petroleum Substance Assessment Grant (EPA Region 6 Cooperative Agreement No. BF-00F20201-0) and in accordance with Terracon's Task Order dated February 6, 2015.

A Quality Assurance Project Plan (QAPP) and a Property-Specific Sampling and Analysis Plan (PSAP) were previously developed for the preparation of a Phase II ESA, specifically:

- *Quality Assurance Project Plan (QAPP) – City of Texarkana, Texas, October 2011,* approved by the EPA.

- *Property-Specific Sampling and Analysis Plan (PSAP), Revision 1 - Work Plan Site: Capital One Building, Eximus Parking Garage and Eximus Parking Lot, May 24, 2012* approved by EPA.

This Phase II ESA reflects a cooperative commitment by the City of Texarkana to evaluate this property for economic redevelopment as part of sustained community improvement. This document is public information as a result of EPA funding and may be used by private owners or the public.

This report was prepared for the exclusive use of our client for the specific application to the project discussed and has been prepared in accordance with generally-accepted environmental engineering practices. No warranties, either express or implied are intended or made. In the event any changes in nature or location of suspected sources of contamination or other subsurface conditions as outlined in this report are observed, the conclusions contained in this report should not be valid unless the changes are reviewed and the opinions of this report are modified or verified in writing by Terracon.

We appreciate the opportunity to perform these services for the City of Texarkana. Please feel free to contact either of the undersigned at (501) 847-9292 if you have questions or comments regarding the information provided in the report.

Sincerely,

Terracon

Merrick Rotenberry, P.G.
Project Geologist

David Hopkins
QA Reviewer

cc: EPA Region 6, Amber Perry

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1.0 INTRODUCTION

Terracon has prepared this Phase II Environmental Site Assessment (ESA) for the City of Texarkana, Texas and the United States Environmental Protection Agency - Region 6 (EPA) as part of an EPA Brownfields Assessment Grant project. This report specifically addresses this Brownfields Target Properties known commonly as the Grim Hotel. The property was separately assessed under the Phase I ESA stage. The property, which from hereafter will be collectively referred to as the site, is a new petroleum substance site identified by the City of Texarkana, Texas.

This report summarizes the field activities and data obtained during the Phase II ESA conducted in accordance with the EPA-approved Property-Specific Sampling and Analysis Plan (PSAP) developed by Terracon for this site (*Property-Specific Sampling and Analysis Plan; Revision 1 – Grim Hotel; January 15, 2014*). The Phase II ESA incorporated the elements of systematic planning, a dynamic work plan, and use of on-site analytical tools where feasible. This Phase II ESA report presents and evaluates information from recent field activities, including soil borings, and the collection of soil and groundwater samples for chemical analysis.

1.1 Objectives

As outlined in the EPA-approved PSAP, the specific objectives of the Phase II ESA are as follows:

- To determine whether soil and/or groundwater in the vicinity of the site are impacted by chemical releases from historic on-site or off-site commercial operations;
- To determine the existence of lead-based paint (LBP) throughout the interior portions of the onsite structure;
- To determine the existence of asbestos-containing material (ACM) throughout the interior and exterior portions of the onsite structure;
- To identify potential human and environmental targets that may be affected by contamination, if any; and,
- To identify potential remedial actions for discovered environmental impact (if applicable).

1.2 All Appropriate Inquiry (AAI)

The *Small Business Liability Relief and Brownfields Revitalization Act* of 2002, Public Law 107-118 (the Act), provides for clarification of liability for purchasers of Brownfields property relative to the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). The Act also requires that a person or entity that acquires ownership of a property after the date of enactment establish each of the following “by a preponderance of the evidence”: disposal/release of chemicals prior to acquisition, all appropriate inquiries, notices of discovery or release, take reasonable care relative to hazardous substances released on the property, provide cooperation and assistance, demonstrate compliance with institutional controls, comply with requests for information or subpoenas under the Act and demonstrate that the person or entity is not a responsible party nor has affiliation with a responsible party.

EPA produced an internal EPA Memorandum dated March 6, 2003, on *Interim Guidance Regarding Criteria Landowners Must Meet in Order to Qualify for Bona Fide Prospective Purchaser, Contiguous Property Owner, or Innocent Landowner Limitations on CERCLA Liability (Common Elements).*

EPA allows funding to be used to conduct due diligence for grantees considering acquisition of eligible target properties. EPA Cooperative Agreements for Brownfields assessment grants stipulate as part of environmental assessment:

> "III.C. As required by CERCLA.Subsection104(k)(2)(B)(ii) and CERCLA Subsection 101(35)(B), the City shall ensure that a 'Phase I' site characterization and assessment carried out under this agreement will be performed in accordance with American Society of Testing and Materials (ASTM) standard E1527-00, 'Standard Practices for Environmental Site Assessment: Phase I Environmental Site Assessment Process,' until EPA promulgates final federal standards governing the conduct of 'all appropriate inquiry.' After EPA promulgates final regulations governing the conduct of all appropriate inquiry, Phase I site characterization and assessments will have to be conducted in compliance with the final regulations. This does not preclude the use of grant funds for additional site characterization and assessment activities that may be necessary to characterize the environmental impacts at the Site or to comply with applicable State standards."

An ASTM E-1527-13 Phase I ESA was previously performed on this property using the interim guidance for AAI under the Brownfields Revitalization Act.

1.3 Standard of Care

Terracon's services were performed in a manner consistent with generally accepted practices of the profession undertaken in similar studies in the same geographical area during the same time period. Terracon makes no warranties, either express or implied, regarding the findings, conclusions or recommendations. Please note that Terracon does not warrant the work of laboratories, regulatory agencies or other third parties supplying information used in the preparation of the report.

1.4 Additional Scope Limitations

Findings, conclusions and recommendations resulting from these services are based upon information derived from the onsite activities and other services performed under this scope of work; such information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, nondetectable or not present during these services, and we cannot represent that the site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during this Phase II ESA. Subsurface conditions may vary from those encountered at specific borings or wells or during other surveys, tests, assessments, investigations or exploratory services; the data, interpretations, findings, and our recommendations are based solely upon data obtained at the time and within the scope of these services.

1.5 Reliance

This report has been prepared for the exclusive use of the City of Texarkana, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the site) is prohibited without the express written authorization of the City of Texarkana and Terracon. Any unauthorized distribution or reuse is at the client's sole risk. Not with standing the foregoing, reliance by authorized parties will be subject to the terms, conditions and limitations stated in the proposal, Phase II ESA report, and Terracon's contract with the City of Texarkana.

1.6 Site Description

The site is a 0.890-acre tract of land located at 301 North State Line Avenue in Texarkana, Bowie County, Texas. The south portion of the site is developed with an approximate 135,000 s.f. eight-story former hotel (Grim Hotel) with a basement. The northern portion of the site contains concrete building pads associated with former structures and a vacant lot enclosed by chain-link fencing. The hotel is boarded up and the site is currently vacant.

Due to the deteriorated state of the building and the historic lack of interest for development in the downtown area, the structure and parking area are underutilized. Restoration of the property would provide improved conditions and community benefit because the City is committed to downtown redevelopment. A site diagram is attached as Figure 2.

1.7 Previous Investigations

Terracon conducted a separate Phase I ESA (Terracon Project Number 35107140) at the site as listed below through use of ASTM E1527-13: *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment (ESA) Process*.

Phase I Environmental Site Assessment, Grim Hotel, dated August 25, 2013

The Phase I assessment the following historic operations that represent RECs to the site:

- Historic onsite cotton yard and storage operations identified across the site from approximately 1905 to 1909;
- Historic onsite automotive repair, battery storage and filling station identified on the north portion of the site from approximately 1924 to 1951;
- Historic off-site printing operations associated with Texarkana Gazette, including identified LPST located approximately 75 feet west of the site at the southwest corner of the intersection of West 4th Street and Pine Street;
- Elevators observed within the on-site structure and potential for release related to hydraulic components.

In addition, Terracon recommended further subsurface investigations (soil testing, groundwater sampling, etc.) and evaluation of potential asbestos-containing materials and lead-based paint due to the age of the onsite structures.

2.0 PHYSICAL SETTING

2.1 Geology

The City of Texarkana is located in the northwest portion of Miller County, Arkansas and in the northeast portion of Bowie County, Texas. Bowie County is located within the Coastal Plain physiographic region of the state. The site is underlain by the Paleocene deposits of the Wilcox and Midway Groups. The Wilcox consists of a thick series of non-marine sands, silty sands, clays, and gravels with some thick deposits of lignite. The thickness of the Wilcox ranges from about 100 to 450 feet. The Wilcox is underlain by the Midway Group, which consists of calcareous shale, arenaceous limestone, calcareous glauconitic sandstone, conglomerate, and clay shale (*Arkansas State Water Plan - ASWCC, 1987*).

The general soil lithology encountered during sample collection at the site consisted of the following:

- Asphalt and fill – 0 to 0.5 feet below ground surface (bgs)
- Silty Clay – 0.5 feet to 8 feet bgs.
- Silty fine-grained sand with some clay – 8 feet bgs to total depth (25 feet bsg).

Detailed lithologic descriptions are presented on the soil boring logs included in Appendix D.

2.2 Hydrology

The Texas coastal uplands aquifer system consists of the Claiborne Group and the Wilcox Group. The Wilcox Group is the lowermost geologic unit of the aquifer system containing fresh water and is underlain by the confining Midway Group. The aquifer system underlies approximately 48,000 square miles of the Coastal Plain Province dipping coastward beneath the lowlands aquifer system. The sediments primarily consist of sand, silt and clay and are distributed as relatively uniform sequences of predominately fine to coarse-grained material. The formation yields large quantities of water for agricultural, public, and industrial needs (*Groundwater Atlas of the United States, HA-730E*).

Groundwater was encountered during drilling activities in the four soil borings at depths ranging from approximately 17 to 20 feet bgs. Upon completion of the monitoring wells, the depth to static groundwater in the wells was measured to be at depths ranging from approximately 12.5 to 14.5 feet bgs.

2.3 Groundwater Flow

During the Phase II site investigation, four groundwater monitoring wells (MW-1 through MW-4) were installed at the site. The monitoring well locations are shown in Figure 2 of Appendix A.

Upon completion of the monitoring wells, the top of casing (TOC) elevations for the wells were surveyed by the on-site geologist in order to establish relative TOC elevations and to calculate groundwater elevations. The wells were surveyed by establishing a temporary benchmark on-site and assuming this benchmark elevation to be 100 feet mean sea level (msl). The TOC elevations were recorded to the nearest 100th of a foot from the north side of the PVC casing.

On March 17, 2015, the static water level in each of the monitoring wells was determined by slowly lowering a Solinst oil/water interface meter into the well. The interface probe's tape is graduated in 0.01 feet increments, and the probe is capable of detecting free product in groundwater. Free product was not detected in the monitoring wells during the March 2015 sampling event.

The groundwater elevations were calculated by subtracting the depth to static water elevation from the TOC elevation for each well. Fluid level measurements, TOC elevations, and groundwater elevations are presented in Table 1 of Appendix B.

Water levels recorded on March 17, 2015 from the monitoring wells were used to calculate the potentiometric surface of the groundwater and to calculate the groundwater flow direction. A groundwater flow map is presented in Figure 3 of Appendix A. As illustrated by Figure 3, groundwater flow direction across the site appears to flow inward with a slight northeast flow component at an estimated hydraulic gradient of 0.015 feet/foot.

3.0 FIELD ACTIVITIES

The Phase II field activities included the advancement of four soil borings (B-1, B-2, B-3, B-4) at the site, which were subsequently converted into groundwater monitoring wells. Terracon' s sampling program consisted of submitting two soil samples from each soil boring and one groundwater sample from each monitoring well.

3.1 Soil Borings and Monitoring Wells

Terracon's field activities were conducted on March 12, 13, and 17, 2015 by Merrick Rotenberry and Lea Nondorf, Terracon geologists. Four soil borings (B-1, B-2, B-3, and B-4) were advanced at various locations across the site to a total depth of 25 feet bgs. As illustrated in Figure 2 of Appendix A, four soil borings were advanced in the adjacent concrete lot located to the northwest of the Grim Hotel in order to obtain media samples from accessible areas and adjacent to the building structures on accessible sides.

Drilling services were performed by a State of Texas licensed monitoring well driller using a truck-mounted hollow stem auger drilling rig (CME 75) under the supervision of a Terracon geologist. Soil samples were collected using a 5-foot continuous barrel sampler. Drilling equipment was cleaned using a high-pressure washer prior to beginning the project and before beginning each soil boring. Sampling equipment was cleaned using an Alconox® wash and potable water rinse prior to the beginning of the project and before collecting each soil sample.

Soil samples were collected continuously and observed to document soil lithology, color, moisture content, and sensory evidence of impairment. The soil samples were field-screened using a photoionization detector (PID – MiniRae 3000) to indicate the presence of volatile organic compounds (VOCs). Soil samples were collected at an interval of every 2 feet (when possible) from the continuous sampler and field screened for potential laboratory analysis. PID readings above 1.0 ppm were not detected. The PID readings for each sample interval are presented on the soil boring logs included in Appendix D.

Upon completion, each soil boring was subsequently converted into a flush-mounted groundwater monitoring well (MW-1 through MW-4, respectively). The monitoring wells were completed using the following methodology:

- Installation of 10 feet of 2-inch diameter, 0.010-inch machine-slotted PVC well screen with a 4-inch threaded bottom cap;
- Installation of 2-inch diameter, threaded, flush-joint PVC riser pipe to bring the well to near surface;
- Addition of a pre-sieved 16/30 grade annular silica sand pack placed from the bottom of the boring to approximately 2 feet above the top of the well screen;
- Addition of a bentonite seal above the sand pack filter zone to just below top of casing; and,
- Installation of an 8-inch diameter, circular, bolt-down, steel monitoring well cover with locking well cap inset in a flush-mount concrete well pad.

Monitoring well construction diagrams for the monitoring wells are included in Appendix G.

The monitoring wells were developed by surging and removing groundwater with a new, disposable, polypropylene bailer. The development of the wells is designed to remove suspended materials and restore the natural water quality of the formation. The wells were developed using a bailer to remove a minimum of five well casing volumes. If the wells bailed dry before five volumes were removed, the wells were allowed to recover and bailed again.

Soil cuttings, groundwater, and equipment cleaning water generated during the field activities were placed in Department of Transportation (DOT) approved, 55-gallon steel drums, closed and appropriately labeled with project-specific information and initial accumulation date. A total of six 55-gallon drums containing soil cuttings and one 55-gallon drum containing water were generated during these field services. The drums are currently temporarily stored on site pending disposal at a solid waste landfill.

3.2 Soil and Groundwater Sampling

Terracon's sampling program involved submitting two soil samples collected from each boring. For quality assurance/quality control (QA/QC) purposes, a duplicate soil sample was obtained from boring B-1. Soil sampling intervals for each boring are presented with the soil analytical results in Table 3 of Appendix B and are provided on the lithologic boring logs included in Appendix F.

One groundwater sample was collected for laboratory analyses from each monitoring well using a new, disposable, polypropylene bailer. In addition, one duplicate groundwater sample was collected from MW-3. Prior to sample collection, each monitoring well was purged of a minimum of three well casing volumes of groundwater, or until the well bailed dry and was allowed to recover.

The sampling event, including QA/QC samples, resulted in a total of nine soil samples and five groundwater samples that were collected and placed in laboratory-prepared glassware, sealed with custody tape, and placed on ice in a cooler that was secured with a custody seal. The sample coolers and completed chain-of-custody forms were relinquished to Environmental Science Corp. laboratory in Mt. Juliet, Tennessee for standard (5-day) turnaround.

4.0 LABORATORY ANALYTICAL METHODS

In accordance with the EPA-approved project PSAP, the soil and groundwater samples collected from the soil borings and monitoring wells (including QA/QC samples) at the site were analyzed for the following constituents: volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), total petroleum hydrocarbons (TPH), RCRA metals, pesticides, and herbicides. The laboratory methods used to analyze these compounds are presented in the following table.

Parameter	Laboratory Methods	Media
VOCs, SVOCs, TPH, 8 RCRA Metals, Herbicides, Pesticides	EPA 8260B, EPA 8270C, TX 1005, EPA 6010/6020, EPA 8151, EPA 8141	Soil
VOCs, SVOCs, TPH, 8 RCRA Metals, Herbicides, Pesticides	EPA 8260B, EPA 8270C, TX 1005, EPA 6010/6020, EPA 8151, EPA 8141	Groundwater
VOCs	EPA 8260B	Rinsate and Trip Blank

Sample preservation, storage container requirements, and laboratory analytical methods were utilized in accordance with the approved PSAP. A summary of the sample container and laboratory analytical methods used during the investigation are presented in Table 2 of Appendix B.

Quality Assurance/Quality Control (QA/QC) samples were collected in accordance with the approved PSAP. The results of the QA/QC samples are discussed in Section 6.0. Soil and groundwater laboratory results are summarized in Tables 3 and 4 of Appendix B. The executed chain-of-custody form and laboratory analytical reports are provided in Appendix H.

5.0 DATA EVALUATION

For the purpose of evaluating whether chemicals detected in soil and groundwater constitute an "affected property" subject to corrective action under the Texas Commission on Environmental Quality's (TCEQ's) Texas Risk Reduction Program (TRRP – 30 TAC 350), Terracon compared the concentrations of the analyzed compounds detected in soil and groundwater to the respective TRRP Action Levels defined in the TRRP guidance document Determining Which Releases are Subject to TRRP (dated November 19, 2010). The referenced guidance defines soil and groundwater action levels as "the lowest applicable Tier 1 residential protective concentration level (PCL) for a given chemical, assuming a 0.5-acre source area and Class 1 groundwater." The action level for each chemical is equivalent to its most conservative Tier 1 PCL for the various potential exposure pathways at a residential site (i.e., $^{Total}Soil_{comb}$, $^{GW}Soil_{Ing}$, $^{Air}Soil_{Ing\text{-}V}$, and $^{Air}GW\text{-}Soil_{Inh}$ for soil concentrations and $^{GW}GW_{Ing}$ and $^{Air}GW_{Inh\text{-}V}$ for groundwater concentrations) established under TRRP. For certain metals (i.e., arsenic and lead), the Texas-specific background concentrations (TSBCs) can be used as the action level.

For the chemicals identified in soils at the site, the action levels included the TSBCs and the Tier 1 PCLs for the $^{Tot}Soil_{comb}$ (combined human exposures) and $^{GW}Soil_{Ing}$ (soil-to-groundwater) exposure pathways. For the chemicals detected in groundwater, the action levels were the Tier 1 PCLs for the $^{GW}GW_{Ing}$ (groundwater ingestion) exposure pathway.

Soil and groundwater sample analytical results are summarized in Table 2 and Table 3, respectively. The analytical reports and chain-of-custody forms are included in Appendix B.

It should be noted that chemicals of concern (COCs) indicated as having "estimated" or J-Value concentrations have been positively detected during the laboratory analysis; however, the detected concentrations were less than the lower calibration limit of the laboratory instrumentation. Therefore, the COC concentrations could not be accurately quantified.

5.1 Soil Analytical Results

A total of nine soil samples were submitted for laboratory analyses: two from each of the four soil borings and one duplicate soil sample, as described in Section 3.2. The laboratory analytical results for the soil samples are presented in Appendix G.

As indicated by Table 3 (Appendix B), mercury, arsenic, and lead concentrations exceeded the TCEQ Action Levels of 0.04, 5.9, and 15 mg/kg, respectively, in the near surface soil samples of B-2 (1-2 feet) and B-4 (1-2 feet). Mercury was detected at concentrations of 0.115 mg/kg and 0.412 mg/kg in B-2 (1-2 feet) and B-4 (1-2 feet), respectively. Arsenic exceeded action levels only in B-4 (1-2 feet) at a concentration of 8.88 mg/kg. Lead exceeded action levels at concentrations of 373 and 1,400 mg/kg in B-2 (1-2 feet) and B-4 (1-2 feet), respectively. Other metal constituents were not detected at concentrations exceeding the respective TCEQ Action Levels.

TPH was not detected above the laboratory detection limit in the soil samples. VOC constituents were not detected above the laboratory detection limit.

Several SVOC constituents were detected in near surface soil samples collected from B-2 (1-2 feet). The detected (J-value) concentrations of SVOC constituents did not exceed TCEQ Action Levels.

Herbicide and pesticide constituents were not detected above the laboratory detection limit in the soil samples.

5.2 Groundwater Analytical Results

A total of five groundwater samples, one from each well plus a duplicate, were submitted for laboratory analyses, as described in Section 3.2.

As indicated by Table 4 (Appendix B), lead was detected in concentrations above the TCEQ Action Level of 0.015 mg/l in all four groundwater samples collected for laboratory analysis. Concentrations were detected in MW-1 through MW-4 at 0.0928, 0.0638, 0.0583, and 0.0656 mg/l, respectively.

TPH was not detected above the laboratory detection limit in the groundwater samples. VOC constituents were not detected above the laboratory detection limit.

Bis (2-ehtylhexyl) phthalate was detected at an estimated (J-value) concentration of 0.00077 mg/l in MW-2. Dimethyl phthalate was detected at an estimated (J-value) concentration in the four groundwater samples. The detected concentrations of SVOC constituents were below their respective TCEQ Action Levels

Herbicide and pesticide constituents were not detected above the laboratory detection limit in the groundwater samples.

6.0 QUALITY CONTROL AND DATA VALIDATION

Appendix I contains the *QA/QC Data Review Checklist* conducted as part of the quality process. The following is a general summary.

6.1 Drilling and Sampling Methods

Hollow-stem auger drilling and sampling procedures were conducted in accordance with the Terracon Standard Operating Procedures for Brownfields Assessments (TSOPs) incorporated into the EPA-approved QAPP and PSAP.

6.2 Monitoring Well Installation and Groundwater Sampling

Monitoring well installation and groundwater sampling procedures were conducted in accordance with TSOPs incorporated into the EPA-approved QAPP and PSAP.

6.3 Sample Collection, Handling, and Storage

Terracon collected and handled the soil and ground water samples consistent with the referenced QAPP and PSAP. Sample collection and storage procedures were consistent with accepted practices of this profession, laboratory recommended procedures, and relevant USEPA analytical methods. Sample containers were labeled prior to sample collection, sealed, and placed on ice in a cooler immediately following sample collection. Samples were stored on ice in a cooler, or in a refrigerator, through laboratory submission, and standard chain of custody procedures were followed. Sample holding times were not exceeded for any samples or analyses. Table 2 describes specific sample collection, handling, and storage parameters. Appendix F provides chain-of-custody documentation.

6.4 Detection Limits and Internal Laboratory Controls

Laboratory detection limits were below relevant soil and groundwater screening values for the chemicals of concern (COCs) as specified in the QAPP. Laboratory quality control data indicate accurate and precise laboratory reporting. Refer to the Environmental Science Corp. quality control reports in Appendix F for additional laboratory quality control information and data.

6.5 Duplicate Results

Terracon collected a soil sample duplicate from B-1 (12-13 feet) and the duplicate sample was identified as B-11 (12-13 feet). The duplicate sample results correlate well with the original soil sample results.

A duplicate groundwater sample was collected from MW-3 and identified as MW-13. The duplicate sample results correlate well with the original soil sample results. Analytical results for the duplicate samples are presented in Table 5 and further discussed in Appendix G.

6.6 Blank Sample Results

One trip blank sample was provided by the laboratory and included in each cooler prior to field mobilization. In addition, two rinsate/equipment blank samples were collected during field activities. The rinsates and trip blank results give no indications of cross-contamination or compromised data quality, as no concentrations above laboratory detection limits were reported. Refer to Table 5 and Appendix G for information regarding specific blank sample analyses.

6.7 Data Validation

Terracon validated the Phase II ESA data through review of the quality control parameters described above. Based on this review, laboratory data met the data quality objectives outlined in the EPA approved QAPP and PSAP and are usable for determinations regarding the environmental conditions of the subject property. No data were rejected as a result of laboratory reporting procedures or field procedures. A check list summarizing QA/QC of the laboratory data is presented in Appendix G.

7.0 ASBESTOS SAMPLING

An asbestos-containing material (ACM) survey was conducted by State of Texas-licensed asbestos inspectors. HEC Environmental Group, Inc. conducted a visual assessment of the building to identify suspected asbestos-containing material (ACM) such as thermal system insulation, surfacing materials, and miscellaneous materials (e.g., floor tiles). Suspect materials were physically assessed for friability and evidence of damage or degradation. Samples of suspect ACM were collected for laboratory analysis in accordance with the PSAP.

Ninety-one (91) bulk samples were collected from seventeen (17) homogeneous areas (HAs) of suspect ACM in the Grim Hotel building and sent for laboratory analysis. Laboratory analysis identified five HAs as containing asbestos in the following materials:

- Aircell thermal system insulation (TSI) insulated piping on each floor
- 12” x 12” vinyl asbestos floor tile (VAT) on the first floor
- 9” x 9” vinyl asbestos floor tile (VAT) on the second floor through the eighth floor
- Roof mastic on the roof
- Black pipe insulation above basement hallway between HVAC shop and pump maintenance shop

The HEC Environmental Group, Inc. March 31, 2015 “Limited Asbestos Survey” for the site, a copy of which is provided in Appendix C, should be consulted for full information regarding potential ACM issues.

8.0 LEAD-BASED PAINT SAMPLING

Terracon conducted a lead-based paint (LBP) sampling and analytical program throughout the interior of the Grim Hotel building in accordance with the approved PSAP. The purpose of this sampling program was to obtain building paint chip samples from painted surfaces and analyze those samples for total lead content in order to evaluate the potential presence of LBP on building components. Only readily-accessible material was evaluated and sampled at the discretion of the inspector.

Regulatory agencies (HUD, EPA) have defined LBP as a paint or other surface coating that contains ≥5,000 mg/kg (ppm) of lead or more than 0.5% of lead by weight. Currently there are no regulations for commercial buildings that give specific definitions for LBP. Therefore, the previously-referenced regulatory definition of a lead level greater than 5,000 mg/kg (0.5% by weight) was used as the criteria to identify LBP components in this building. In addition, the Occupational Safety and Health Administration (OSHA) defines LBP as a paint that contains lead, regardless of the concentration. Currently, any proposed renovation/demolition is subject to the OSHA regulations (29 CFR 1926.62 – Lead Exposure in Construction).

Seven (7) lead paint samples were collected at the site. Analytical results indicate that five (5) of the seven (7) samples contained lead concentrations above the 5,000 ppm standard for lead-based paint. The remaining samples contained lead concentrations below the standard for lead-based paint, but are considered lead-containing paint. The analytical results indicate the following are considered lead-based paint:

- Pink paint in lobby entrance
- Brown paint in lobby entrance and trim throughout hotel
- Green paint in south store rooms on first floor
- Blue in north portion of lobby
- White paint on plaster walls throughout hotel

Terracon's May 8, 2015 "Lead-Containing Paint Survey" for the site, a copy of which is provided in Appendix D, should be consulted for full information regarding potential LCP issues.

9.0 PROSPECTIVE PURCHASER DUE DILIGENCE

The *Small Business Liability Relief and Brownfields Revitalization Act* of 2002, Public Law 107-118 (the Act), provides for clarification of liability for purchasers of Brownfields property relative to the CERCLA. The Act also requires that a person that acquires ownership of a property after the date of enactment establish each of the following "by a preponderance of the evidence": disposal/release of chemicals occurred prior to acquisition, all appropriate inquiries, notices of discovery or release, take reasonable care relative to hazardous substances released on the property, provide cooperation and assistance, demonstrate compliance with institutional controls, comply with requests for information or subpoenas under the Act, and demonstrate that the City of Texarkana is not a responsible party nor has affiliation with a responsible party.

The City has conducted these services previously, consistent with programmatic requirements of the EPA Cooperative Agreement negotiated between the City and the agency. The intent of due diligence and all appropriate inquires has been to document these inquiries in the interest of a potential future City acquisition or as an informational public document to others considering acquisition.

Due to time constraints of the Act, future purchasers of the properties must re-evaluate acceptable levels of due diligence specific to their needs and the time at which acquisition is required.

9.1 Disposal / Release of Chemicals

No commercial activity using hazardous substances or eligible petroleum under the Act was observed to be occurring on the properties. Visual observations did not identify illegal dumping of materials or refuse on to the properties at the time of assessment.

Potential future discovery of environmental impacts to soil, fills, surface water or groundwater would reasonably be the result of historical operations prior to acquisition by a future purchaser or from off-site sources.

9.2 Notices of Discovery or Release

In seeking liability protection under 40CFR312, a future purchaser will be required to provide legally required notices with respect to hazardous substances found on the target properties with respect to the discovery or release of hazardous substances and eligible petroleum compounds of the Act, if required.

9.3 Reasonable Care

The Act requires continuing obligations by the prospective purchaser to seek liability protections. Among these obligations is a requirement to exercise appropriate care. A prospective purchaser must demonstrate they will exercise appropriate care relative to hazardous substances and eligible petroleum compounds found on the properties by taking reasonable steps to:

- Stop continuing release of hazardous substances and eligible petroleum compounds;
- Prevent threatened future release of existing hazardous substances and eligible petroleum compound releases; and
- Prevent or limit human, environmental or natural resource exposure from earlier hazardous substances and eligible petroleum compound releases.

Congress included this obligation as an incentive for certain owners of contaminated properties to avoid CERCLA liability by, among other things, acting responsibly where releases are present on their property. In adding this new requirement, Congress adopted an approach that is consistent with traditional common law principles and the existing CERCLA "due care" requirement. By making the landowner liability protections subject to the obligation to take "reasonable steps", EPA believes Congress intended to balance the desire to protect certain landowners from CERCLA liability with the need to protect human health and the environment. In requiring reasonable steps from parties qualifying for landowner liability protections, EPA believes Congress did *not* intend to create, as a general matter, the same types of response obligations that exist for a CERCLA liable party, such as removal of contaminated soil or extraction and treatment of contaminated groundwater.

There could be unusual circumstances where reasonable steps required of a prospective purchaser could be akin to the obligations of a potentially responsible party (e.g., the only remaining response action is institutional controls or monitoring after purchase). In seeking liability protection under 40CFR312, these conditions would be considered by a future purchaser as part of the final acquisition.

9.3.1 Government Controls

The property is zoned "Central Business District" by the City of Texarkana. No other governmental controls by the State, County or City have been identified in available documents provided by others.

9.3.2 Proprietary Controls

No covenants have been identified by the City, available documents, or updated research that act as land use controls.

9.3.3 Enforcement Documents and Informational Devices

Inquiries did not identify existing deed restrictions or environmental enforcement documents by state and federal agencies.

9.4 Requests for Information or Subpoenas

In seeking liability protection under 40CFR312, a future purchaser will be required to commit to comply, after acquisition, with CERCLA information requests and administrative subpoenas from EPA, if required.

9.5 Affiliation

In seeking liability protection under 40CFR312, a future purchaser will be required to demonstrate they do not have any affiliation with the current or historical landowners that resulted in the release of contaminants to the properties.

10.0 GENERAL CONDITIONS

Terracon has prepared this Phase II Environmental Site Assessment (ESA) for the City of Texarkana and the United States Environmental Protection Agency - Region 6 (EPA) as part of an EPA Brownfields Assessment Grant project. This report summarizes the field activities and data obtained during the Phase II ESA conducted in accordance with the EPA-approved Property-Specific Sampling and Analysis Plan (PSAP) developed by Terracon for this site (*Property-Specific Sampling and Analysis Plan; Revision 1 – Grim Hotel; January 15, 2014*) - *approved by EPA.*

11.0 FINDINGS, CONCLUSIONS AND RECOMMENDATIONS

Based on the results of the investigation, Terracon provides the following findings and conclusions:

Soil

Mercury, arsenic, and lead concentrations exceeded the TCEQ Action Levels of 0.04, 5.9, and 15 mg/kg, respectively, in the near surface soil samples of B-2 (1-2 feet below ground surface, or bgs) and B-4 (1-2 feet bgs). Mercury was detected at concentrations of 0.115 mg/kg and 0.412 mg/kg, respectively; Arsenic exceeded action levels in B-4 (1-2 feet bgs) only at a concentration of 8.88 mg/kg; and lead exceeded action levels at concentrations of 373 and 1,400 mg/kg, respectively. Other metal constituents were not detected at concentrations exceeding the respective TCEQ Action Levels.

TPH, VOCs, SVOCs, herbicides and pesticides were not detected above their respective action levels and/or the laboratory detection limit in the soil samples.

Groundwater

Lead was detected in concentrations above the TCEQ Action Level of 0.015 mg/l in the four groundwater samples collected for laboratory analysis. Concentrations were detected in MW-1 through MW-4 at 0.0928, 0.0638, 0.0583, and 0.0656 mg/l, respectively.

TPH, VOCs, SVOCs, herbicides and pesticides were not detected above their respective action levels and/or the laboratory detection level in the groundwater samples.

Groundwater was encountered at approximately 17 to 23 bgs. The groundwater flow direction across the site appears to flow inward with a slight northeast flow component

Asbestos Containing Material

Due to the impending renovation of the on-site structure, an asbestos containing material (ACM) survey and sampling was conducted. HEC Environmental Group, Inc.'s March 31, 2015 "Limited Asbestos Survey" report for the site, a copy of which are provided in Appendix C, should be consulted for full information regarding potential ACM issues.

Lead Paint

Due to the impending renovation of the on-site structure, a lead-containing paint (LCP) survey and sampling was conducted. Terracon's May 8, 2015 "Lead Containing Paint" surveys for the site, a copy of which are provided in Appendix D, should be consulted for full information regarding potential LBP issues.

Based on the findings of the investigation, Terracon provides the following recommendations:

- Based on the results of the laboratory analysis, it is the opinion of Terracon that, if reported to the TCEQ, the agency would consider the soil at the site to be "affected" by COCs (metals in shallow soils and lead in groundwater) and most likely would require additional assessment and/or corrective action to secure regulatory closure. The elevated metals appear to be associated with fill material (0-2 feet). However, an additional soil sample can be collected from 1-2 feet bgs from a boring advanced adjacent to B-4/MW-4 and tested for pH at a testing laboratory. A site-specific Tier 2 protective concentration level (PCL) can be calculated using the pH value and Texas Risk Reduction Program (TRRP) Soil-to-Groundwater ($^{GW}Soil_{Ing}$) PCL Equation. If the detected concentrations of metals are below the Tier 2 PCLs additional investigation will not be required. In the event that detected concentrations exceed the Tier 2 PCLs then additional investigation may be required to obtain regulatory closure.

  The metals in soil that exceeded the TRRP Action Levels for the protection of groundwater could be further evaluated utilizing synthetic precipitation leaching procedure (SPLP) analysis and groundwater samples in the area to further evaluate the highest detected concentrations of metals (arsenic, lead and mercury).

- Lead was detected above the action level in groundwater samples from all four wells. High turbidity in the samples could be a cause of elevated metals in groundwater due to sediments. Additional sampling would be required to evaluate the presence of lead in groundwater above the action level. Currently, groundwater at the site is provided by the City of Texarkana, and it is recommended that the shallow groundwater at the site not be used as a source of potable water.

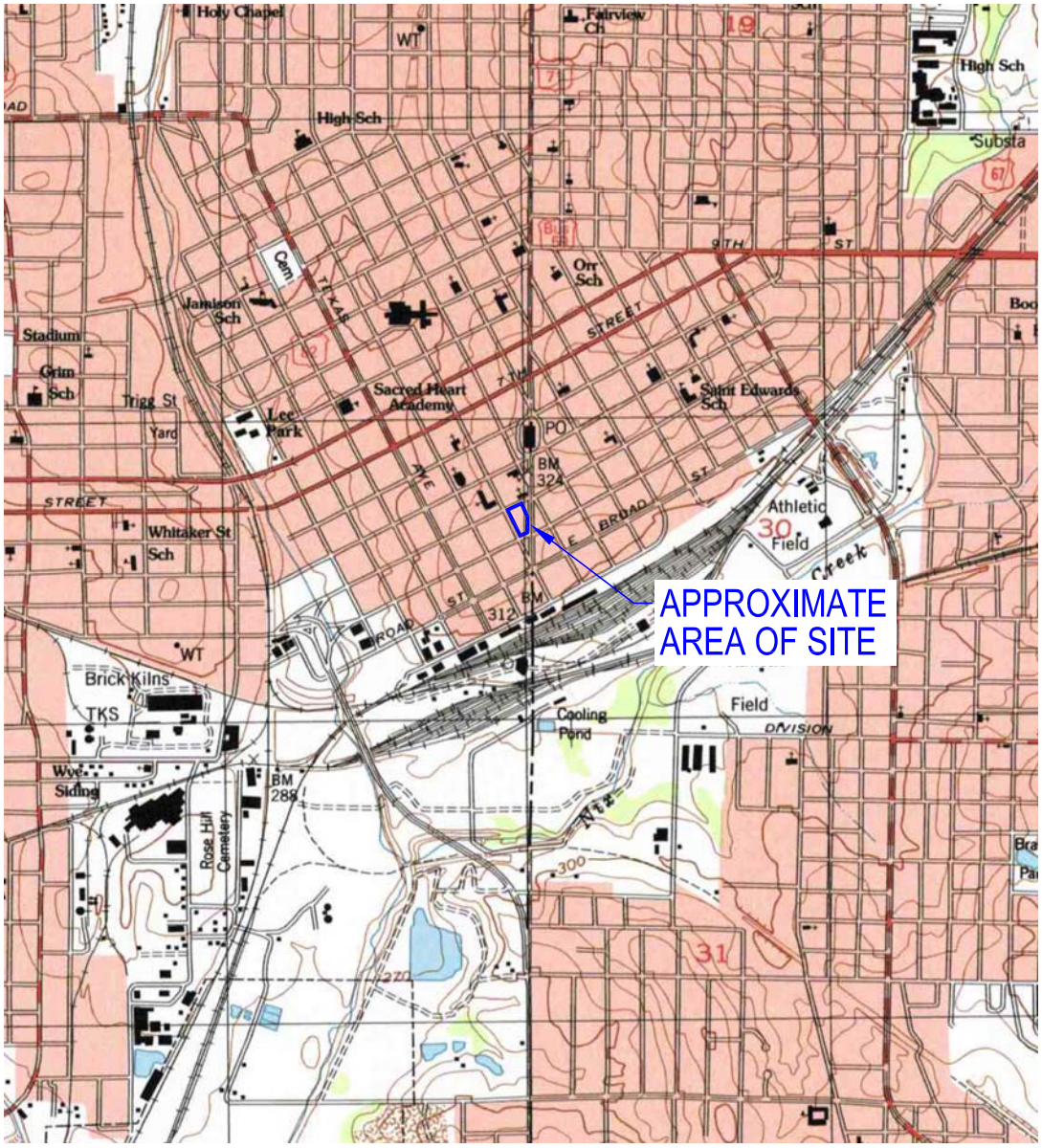
  In accordance with TRRP, the elevated lead concentrations could be further evaluated utilizing the Tier 2 calculation for the groundwater-protective value utilizing site specific parameters. Terracon recommends that, if further evaluation of the detected lead concentrations are performed utilizing a Tier 2 calculation, that an Affected Property Assessment Report (APAR) be prepared and submitted to the TCEQ for concurrence.

- If the shallow soil (0-2 feet bgs) is to be disturbed during future excavations, proper procedures should be followed with respect to worker health and safety, and any impacted materials encountered should be properly handled and disposed in accordance with local and state regulations.

APPENDIX A

Figure 1 Site Location and Topographic Map
Figure 2 Site Diagram and Sample Locations
Figure 3 Groundwater Flow Direction Map

UNITED STATES – DEPARTMENT OF THE INTERIOR – GEOLOGICAL SURVEY



SCALE 1:24 000

SCALE IS APPROXIMATE

1 .5 0 KILOMETERS 1 2

1000 0 METERS 1000 2000

1 .5 0 1

MILES

1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000

CONTOUR INTERVAL 10 FEET

NATIONAL GEODETIC VERTICAL DATUM OF 1929

N

TEXARKANA, TX
QUADRANGLE
2001
7.5 MINUTE SERIES (TOPOGRAPHIC)

Project Mngr:	JAJ
Drawn By:	PTG
Checked By:	JAJ
Approved By:	MR

Project No.	232-012-35107140
Scale:	AS SHOWN
File No.	001 T4-16
Date:	8/21/2014

Terracon
Consulting Engineers and Scientists
25809 I-30 SOUTH BRYANT, AR 72022
PH. (501) 847-9292 FAX. (501) 847-9210

SITE LOCATION MAP

PHASE I ESA - GRIM HOTEL

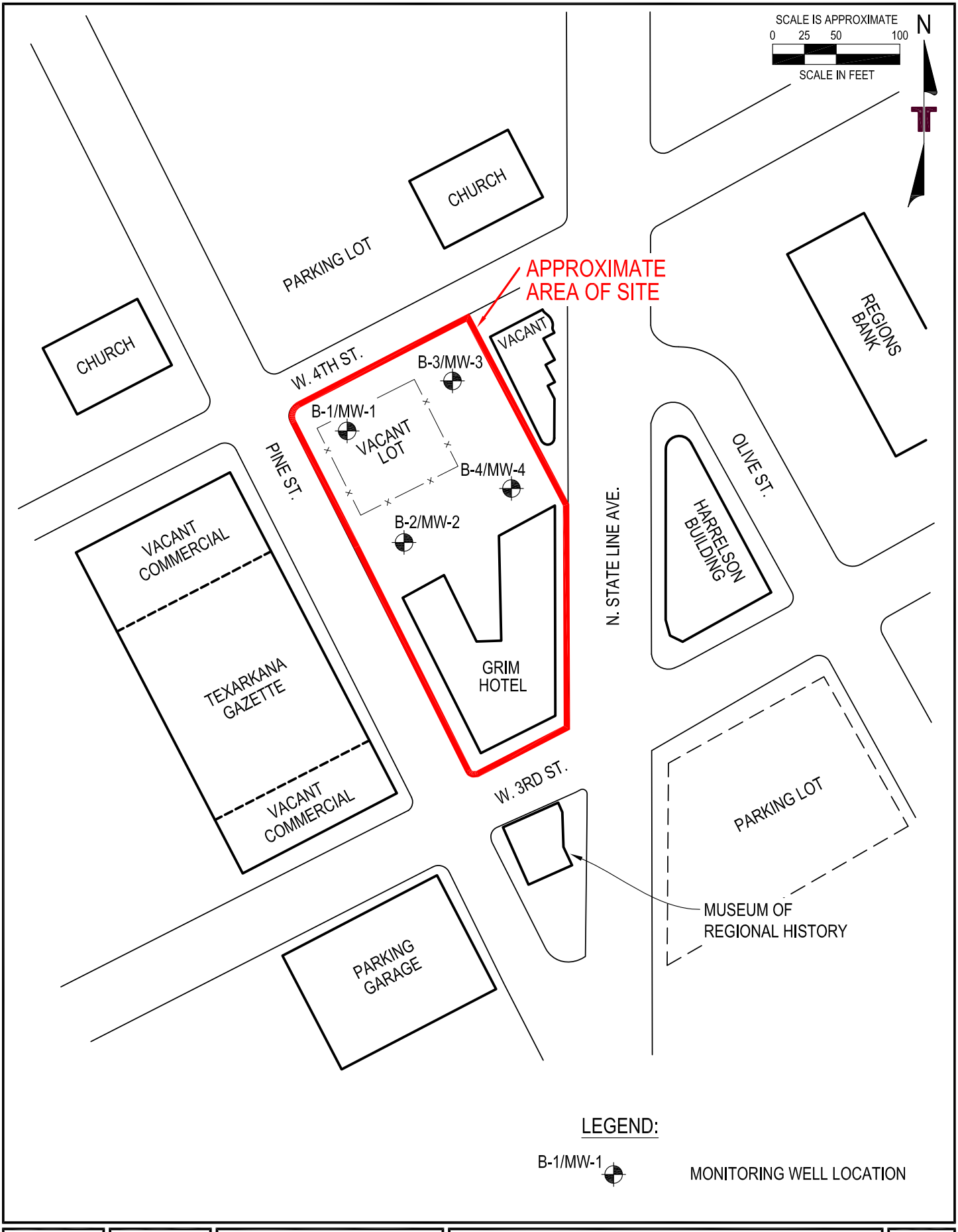
CITY OF TEXARKANA, TEXAS

311 NORTH STATE LINE

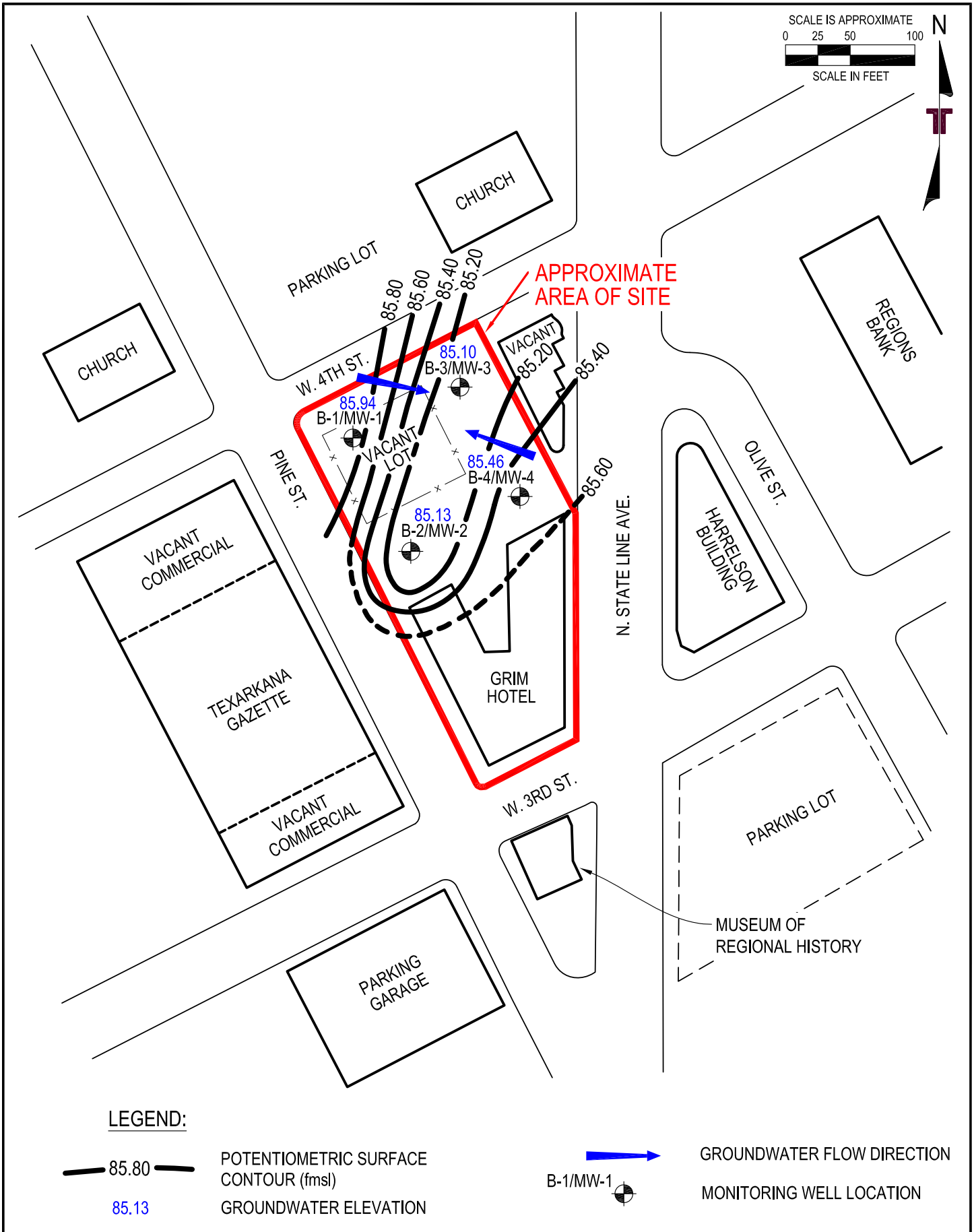
TEXARKANA TEXAS

EXHIBIT

1



Project Mngr: LMN	Project No. 232-012-35107140	Terracon Consulting Engineers and Scientists	MONITORING WELL LOCATIONS	EXHIBIT
Drawn By: PTG	Scale: AS SHOWN	25809 I-30 SOUTH BRYANT, AR 72022	PHASE II ESA - GRIM HOTEL	2
Checked By: LMN	File No. 013 T4-16	PH. (501) 847-9292 FAX. (501) 847-9210	CITY OF TEXARKANA, TEXAS	
Approved By: MR	Date: 5/12/2015		311 NORTH STATE LINE AVENUE	
			TEXARKANA TEXAS	



Project Mngr: LMN	Project No. 232-012-35107140	Terracon Consulting Engineers and Scientists	MONITORING WELL LOCATIONS
Drawn By: PTG	Scale: AS SHOWN	25809 I-30 SOUTH BRYANT, AR 72022	PHASE II ESA - GRIM HOTEL
Checked By: LMN	File No. 012 T4-16	PH. (501) 847-9292 FAX. (501) 847-9210	CITY OF TEXARKANA, TEXAS
Approved By: MR	Date: 4/27/2015		311 NORTH STATE LINE AVENUE
			TEXARKANA TEXAS

EXHIBIT 3

APPENDIX B

Table 1 Fluid Level Measurements
Table 2 Analytical Methods, Sample Handling, and Storage
Table 3 Soil Analytical Summary Table
Table 4 Groundwater Analytical Summary Table
Table 5 QA/QC Results

TABLE 1

Fluid Level Measurements
Grim Hotel
Texarkana, Texas

Well Number	Date	TOC Elevation[1] (ft)	Depth to Water[2] (ft)	Total Depth[2]	Groundwater Elevation[1] (ft)
MW-1	03/17/2015	98.13	12.19	23.80	85.94
MW-2	03/17/2015	98.67	13.54	24.17	85.13
MW-3	03/17/2015	99.07	13.97	24.20	85.10
MW-4	03/17/2015	99.40	13.94	24.05	85.46

[1] Elevation based on a temporary benchmark with an assumed elevation of 100 feet.
[2] Feet below Top of Casing (TOC)

TABLE 2
Sample Preservation, Storage and Analytical Methods
Grim Hotel
Texarkana, Texas

Analysis	State or EPA Approved Method	Water				Soil/Solid		
		Volume (ml)	Container	Preservation	Holding Time	Volume (oz)/ Quantity	Container	Holding Time
VOCs	8260	40 VOA	G	HCl to pH<2, cool 4° C	14 days	4 oz	G	14 days
SVOCs	8270	1000	G	cool 4° C	7 days	4 oz	G	14 days
TPH	TCEQ TX1005	60 VOA	G	HCl to pH<2, cool 4° C	14 days	4 oz	G	14 days
TPH	TCEQ TX1006	60 VOA	G	HCl to pH<2, cool 4° C	14 days	4 oz	G	14 days
RCRA Metals, Total	6010/6020	500	P	HNO_3 to pH<2, cool 4° C	28 days	4 oz	G	28 days
Pesticides		100	G	cool 4° C	14 days	4 oz	G	14 days
Herbicides		100	G	cool 4° C	14 days	4 oz	G	14 days
Asbestos	Polarized Light Microscopy (PLM)	---	---	---	---	N/A	Sealable Plastic Bag	---
Lead-based Paint	6010/6020	---	---	---	---	2 square inches	Sealable Plastic Bag	---

P= Plastic as High-density polyethylene bottles
G= Glass (clear)

TABLE 3
Soil Analytical Results
Grim Hotel
Texarkana, Texas

Boring	B-1/ MW-1	B-1/ MW-1	B-2/ MW-2	B-2/ MW-2	B-3/ MW-3	B-3/ MW-3	B-4/ MW-4	B-4/ MW-4	Typical Background Range (Region VI)	Action Level (Texas)	Source of Screening Level (Texas)
Sample Depth (feet)	1.0-2.0	12-13	1.0-2.0	16-17	1.0-2.0	12-13	1.0-2.0	8-9			
Date	3/13/15	3/13/15	3/12/15	3/13/15	3/13/15	3/13/15	3/13/15	3/13/15			
Metals (mg/kg)											
Mercury	<0.0200	<0.020	**0.115**	<0.0200	0.00411J	<0.0200	**0.412**	<0.0200	0.1	0.04	TSBC
Arsenic	2.97	0.934J	2.71	1.5J	1.86J	1.36J	**8.88**	2.0	1.1-16.7	5.9	TSBC
Barium	50.2	31.1	89.3	23.3	46.7	16.6	82.8	20.1	430	300	TSBC
Cadmium	<0.500	<0.500	0.319J	<0.500	<0.500	<0.500	0.367J	<0.500	0.01-1	1.5	$^{GW}Soil_{Ing}$
Chromium	9.17	8.79	10.5	8.99	6.77	7.56	12.7	13.4	38	30	TSBC
Lead	6.38	6.33	**373**	5.89	4.73	4.99	**1400**	5.58	10-18	15	TSBC
Selenium	<2.0	<2.0	<2.0	1.32J	<2.0	<2.0	0.764J	1.22J	0.2	2.3	TSBC
Silver	<1.0	0.71J	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.01-5	0.48	$^{GW}Soil_{Ing}$
VOCs (mg/kg)											
None Detected (ND)	ND	ND	ND	ND	ND	ND	ND	ND	---	NA	NA
TPH (TX 1005) (mg/kg)											
C6–C12	<50	<50	<50	<50	<50	<50	<50	<50	---	65	$^{GW}Soil_{Ing}$
C12–C28	<50	<50	<50	<50	<50	<50	<50	<50	---	200	$^{GW}Soil_{Ing}$
C28–C35	<50	<50	<50	<50	<50	<50	<50	<50	---	200	$^{GW}Soil_{Ing}$
SVOCs (mg/kg)											
Benzo (a) anthracene	<0.033	<0.033	0.0479J	<0.033	<0.033	<0.033	<0.033	<0.033	---	NE	NE
Benzo (b) fluoranthene	<0.033	<0.033	0.0705J	<0.033	<0.033	<0.033	<0.033	<0.033	---	5.7	$^{Tot}Soil_{Comb}$
Benzo (a) pyrene	<0.033	<0.033	0.0508J	<0.033	<0.033	<0.033	<0.033	<0.033	---	0.56	$^{Tot}Soil_{Comb}$
Chrysene	<0.033	<0.033	0.0503J	<0.033	<0.033	<0.033	<0.033	<0.033	---	560	$^{Tot}Soil_{Comb}$

TABLE 3 (Cont.)
Soil Analytical Results
Grim Hotel
Texarkana, Texas

Boring	B-1/ MW-1	B-1/ MW-1	B-2/ MW-2	B-2/ MW-2	B-3/ MW-3	B-3/ MW-3	B-4/ MW-4	B-4/ MW-4	Typical Background Range (Region VI)	Action Level (Texas)	Source of Screening Level (Texas)
Sample Depth (ft)	1.0-2.0	12-13	1.0-2.0	16-17	1.0-2.0	12-13	1.0-2.0	8-9			
Date	3/13/15	3/13/15	3/12/15	3/13/15	3/13/15	3/13/15	3/13/15	3/13/15			
SVOCs (mg/kg)											
Fluoranthene	<0.033	<0.033	0.0799J	<0.033	<0.033	<0.033	<0.033	<0.033	---	1,900	$^{GW}Soil_{Ing}$
Phenanthrene	<0.033	<0.033	0.0405J	<0.033	<0.033	<0.033	<0.033	<0.033	---	420	$^{GW}Soil_{Ing}$
Pyrene	<0.033	<0.033	0.0648J	<0.033	<0.033	<0.033	<0.033	<0.033	---	1,100	$^{GW}Soil_{Ing}$
Pesticides (mg/kg)											
None Detected (ND)	ND	ND	ND	ND	ND	ND	ND	ND	---	NA	NA
Herbicides (mg/kg)											
None Detected (ND)	ND	ND	ND	ND	ND	ND	ND	ND	---	NA	NA

Action Level - Tier 1 protective concentration level (PCL) – The lower of the TCEQ Residential Tier 1 Protective Concentration Levels for a 0.5-acre source area protective of combined human exposures ($^{Tot}Soil_{Comb}$) or soil migration to groundwater ($^{GW}Soil_{Ing}$). For certain metals in the soil, the Texas-specific background concentration (TSBC) was used as the PCL.

NA – Not Applicable

NE – Not Established

J – Indicated the concentration is estimated because the constituent was detected at a concentration between the laboratory detection limit and the method quantitation limit (MQL).

< - not detected at concentrations above the laboratory detection limit.

Concentrations in **Bold** exceed the respective Action Level.

TABLE 4

Ground Water Analytical Results
Grim Hotel
Texarkana, Texas

Sample ID	MW-1	MW-2	MW-3	MW-4	Screening Level (MCL or Tapwater Standard)	Tier 1 Groundwater PCL ($^{GW}GW_{Ing}$) Texas
Date	3/17/15					
Metals	Concentration (mg/l)					
Mercury	<0.0002	<0.0002	<0.0002	0.0000535J	0.002	0.002
Arsenic	0.000892J	0.00119	0.00154J	0.000757J	0.01	0.01
Barium	0.434	0.245	0.310	0.182	2.0	2.0
Cadmium	<0.005	<0.005	<0.005	<0.005	0.005	0.005
Chromium	0.0295	0.00907J	0.0173	0.0253	0.1	0.1
Lead	**0.0928**	**0.0638**	**0.0583**	**0.0656**	0.015	0.015
Selenium	<0.020	<0.0200	<0.020	<0.020	0.05	0.05
Silver	<0.010	<.0100	<0.010	<0.010	0.094**	0.12
TPH	Concentration (mg/l)					
C6–C12	<0.900	<0.900	<0.900	<0.900	0.2	0.98
C12–C28	<0.900	<0.900	<0.900	<0.900	0.4	0.98
C28–C35	<0.900	<0.900	<0.900	<0.900	0.7	0.98
VOC's	Concentration (mg/l)					
None Detected (ND)	ND	ND	ND	ND	NA	NA
SVOC's	Concentration (mg/l)					
Bis(2-ethylhexyl)phthalate	<0.0033	0.00077J	<0.0030	<0.0030	0.006	0.006
Di-n-butyl phthalate	0.000735J	0.00056J	0.00161J	0.000321J	0.9	2.4
Pesticides	Concentration (mg/l)					
None Detected (ND)	ND	ND	ND	ND	NA	NA
Herbicides	Concentration (mg/l)					
None Detected (ND)	ND	ND	ND	ND	NA	NA

J – Indicated the concentration is estimated because the constituent was detected at a concentration between the laboratory detection limit and the method quantitation limit (MQL).

< - not detected at concentrations above the laboratory detection limit.

NA – Not Applicable

Concentrations in **Bold** exceed the respective Action Level.

**Tapwater Standard

TABLE 5
QA/QC Results
Grim Hotel
Texarkana, Texas

Sample ID	B-1 (12-13 feet)	B-11* (12-13 feet)	MW-3	MW-13*	Rinsate 1 Equipment Blank (mg/l)	Rinsate 2 Equipment Blank (mg/l)
Media	Soil (mg/kg)		Groundwater (mg/l)			
Date	3/13/15		3/17/15		3/12/15	3/12/15
Detected Constituents						
Metals						
Mercury	<0.020	<0.020	<0.0002	<0.0002	NA	NA
Arsenic	0.934J	1.13J	0.00154J	0.000951J	NA	NA
Barium	31.1	32.6	0.310	0.264	NA	NA
Cadmium	<0.500	<0.500	<0.005	<0.005	NA	NA
Chromium	8.79	9.35	0.0173	0.0107	NA	NA
Lead	6.33	5.93	0.0583	0.0443	NA	NA
Selenium	<2.0	1.01J	<0.020	<0.020	NA	NA
Silver	<1.0	<1.0	<0.010	<0.010	NA	NA
TPH						
None Detected (ND)	ND	ND	ND	ND	NA	NA
VOCs						
None Detected (ND)	ND	ND	ND	ND	ND	ND
SVOCs						
Di-n-butyl phthalate	<0.333	<0.333	0.00161J	0.000366J	NA	NA
Pesticides						
None Detected (ND)	ND	ND	ND	ND	NA	NA
Herbicides						
None Detected (ND)	ND	ND	ND	ND	NA	NA

*Duplicate sample
J – Indicated the concentration is estimated because the constituent was detected at a concentration between the laboratory detection limit and the method quantitation limit (MQL).
NA – Not Analyzed For

APPENDIX C

Asbestos Survey Report

Limited Asbestos Survey

To identify presence, type and amount of Asbestos Containing Materials

Property Location:

Hotel Grim
301 N. State Line
Texarkana, Texas

Prepared for:

Mr. Merrick Rotenberry, P.G.
Project Geologist
Terracon
25809 Interstate 30 South I
Bryant, AR 72022

March 31, 2015

HEC Project #T15147

Prepared by:

HEC Environmental Group, Inc.

Geologists Engineers Chemists Hygienists

409 Hazel Street • Texarkana, AR 71854 • 870-772-4700

Limited Asbestos Survey

Hotel Grim
301 N. State Line
Texarkana, Texas
March 31, 2015
HEC #T15147

Purpose

HEC Environmental Group, Inc., was contacted and retained to conduct a facility wide asbestos assessment survey for the purpose of identifying and quantifying asbestos containing materials (ACM) on the Hotel Grim located at 301 North State Line Avenue, Texarkana Texas. Fieldwork was performed March 17-18, 2015.

Building Construction Demographics

The Hotel Grim was constructed in 1924-25. The building consists of eight floors above ground, a basement and sub-basement. The building structure is concrete with flat quarry tile /parapet roof on west wing. The remainder of the roof is covered with clay tile. The building exterior is masonry brick.

The original interior walls and ceilings throughout the building are predominately troweled plaster over wire. Some areas have been renovated with drywall systems installed (i.e. eighth floor auditorium converted to hotel rooms).

The original basement housed a barbershop in the southwest corner, and public restrooms on west side. The barbershop, rest rooms, and foyer on south end of basement are plaster walls. One-inch black/white hexagonal ceramic tiles cover the floors. The remaining basement interior walls, ceilings and/or are textured, painted, or bare concrete.

One exterior street stairway located on southwest corner was used as barbershop entrance. A second exterior stairway located on northeast side was utilized in conjunction to sidewalk service elevator.

The electrical utilities and water pumps were located immediately south and west of boiler room. The ventilation system and mechanical rooms were located in northeast corner with air intakes on north side of building. The north center area housed several refrigeration cooler rooms and were located adjacent to service elevator.

The specialized maintenance areas (electric, lamp/motor) were located along the east wall. Several specialized storage rooms (wood, pipe, lamp, paint and chemical, pump, etc.) were located throughout the basement.

The boiler room is an 1800 square foot sub-basement located in basement's northeast corner. This area housed two boilers and associated tanks and piping. An original service entrance located on the northwest sidewalk has been sealed by new sidewalk.

Sewer system, hot and cold water supply lines, steam supply and condensate lines , as well as electrical conduits are suspended throughout basement ceiling.

The first floor interior flooring consists of a marble lobby, ceramic tile rest rooms, vinyl floor tile in original retail stores, bare concrete in original refreshment room, and quarry tile in kitchen and restaurant. First floor staircases are marble.

The second floor mezzanine floors are either bare concrete, vinyl tile, hardwood (private dining area), or carpet in offices and hotel rooms. Walls and ceilings are decorative plaster.

The third floor through the seventh floor are either predominately bare concrete or carpet. There are one or two rooms on each floor that have vinyl floor tile.

The eighth floor originally housed an auditorium and a open roof garden area. The auditorium was later converted to hotel room while the garden remained open air area. The original plaster ceiling remains above the drywall interior room and hallway ceilings.

Scope of Survey

The scope for this asbestos survey pertains to the interior and exterior areas that are assessable in accordance with the Texas Department of State Health Services (TDSHS) current edition of the Texas Asbestos Health Protection Rules (TAHPR).

This survey includes the visual identification of suspected asbestos containing materials (SACM), the collection and analysis of SACM in accordance with TAPHR, and the generation of a final report conveying findings, conclusions, and recommendations.

This survey was performed in accordance with and meets the requirements for an asbestos survey as detailed in the 40 CFR 763, the Asbestos Hazard and Emergency Response Act (AHERA), 40

CFR 61: Appendix M, the National Emission Standard for Hazardous Air Pollutants (NESHAP), 29 CFR 1926.1101, the OSHA Asbestos Construction Standard and the Texas Department State Health Services (TDSHS) Texas Asbestos Health Protection Rules (TAHPR).

Sampling Strategy

General knowledge, professional judgment, and experience formed the basis for this survey. The location and number of samples collected from each HA was in accordance with TAHPR and other common industry standards and practices.

Material that is visually determined to be non-asbestos containing, such as fiberglass, rubber, ceramic tile, natural stone, cork, wood, etc., by the inspector was not sampled.

Sample Collection

HEC Environmental Group, Inc., identified seventeen (17) Suspected Asbestos Containing Homogeneous Areas. Ninety-one (91) samples were collected, and where necessary the lab split into homogeneous strata (layers) yielding one hundred thirty (130) specimens for analysis. Samples were obtained by physically removing a small portion of the material using a sharp instrument. All layers of the materials sampled were penetrated. Disturbance of adjacent material was kept to a minimum. Where possible, the bulk samples were collected using a disposable aluminum coring tool designed to make clean cores into the suspect material. Samples from materials that do not lend themselves to this type coring procedure were collected with a utility knife. Sometimes a broken piece of these materials can be found and used as the sample. Each sample was placed in a separate labeled container and sealed. The sampling instrument was then cleaned to eliminate the possibility of cross contamination. Each sample was labeled with a unique sample number and location for this job and logged into the field notebook. Sampling locations are furnished as Appendix D.

Laboratory Analysis

The bulk samples collected were packaged, overnight shipped to, and analyzed by Apex Precision Analytical Services, Inc., 308 W, Edgewood Drive, Suite D, Friendswood, Texas, 77546.

The chain of custody and associated laboratory analytical results are furnished as Appendix A.

Credentials

HEC is licensed as a Texas Asbestos Consulting Agency, license #10-0240. The Inspection was

performed by Mr. Jerry T. Jones, and Mr. Kevin Stanley. Mr. Jones is a licensed Texas Asbestos Individual Consultant, license #10-5522. Mr. Stanley is a licensed Asbestos Inspector in Texas, license #603125.

HEC and individual credentials are furnished as Appendix B.

Apex Precision Analytical is a licensed TDSHS Asbestos Laboratory, license #30-0312 PLM/PCM and is NVLAB Lab Code 200633-0 PLM.

Homogenous Areas

Homogeneous areas (HA) are defined herein as any area of surfacing material, thermal system insulation, or miscellaneous material that is uniform in color and texture, the same age, and/or like maintenance history.

The identified HAs were identified, samples collected and analyzed in accordance with the TAHPR. The number of samples and sampling locations vary from one HA to another depending on the professional judgment of the inspector.

Where accessible, samples from all HAs were collected throughout building. Building materials not accessible were not included in this survey.

Each SACM is classified into one of three categories. AHERA and TAHPR sampling requirements differ between categories as detailed in the following Table 1.

Table 1- Homogenous Areas Categories

Category	Description
Surfacing Material (SM)	Refers to spray-applied or troweled surfaces such as plaster ceilings and walls, fireproofing, textured paints, textured plasters, and spray-applied acoustical surfaces.
Thermal System Insulation (TSI)	Refers to insulation used to inhibit heat gain or loss on pipes, boilers, tanks, ducts, and various other building components.
Miscellaneous Materials (MM)	Refers to friable and non-friable products and materials that do not fit in any of the above two categories such as resilient floor covering, baseboards, mastics adhesives, roofing material, caulking, glazing, and siding. This category also contains wallboard, joint compound and ceiling tile.

Hazard Assessment Factors

From the list of suspect HAs, a physical assessment in general accordance with AHERA recommendations is performed on each HA sampled, and includes friability, condition, and

potential for disturbance. HA materials are assessed by their condition as good (intact), damaged (fair), or significantly damaged (poor). Potential for disturbance is rated as low, medium, or high and takes into account such parameters as accessibility of the material, exposure to air movement, vibration and water. Friable materials are ones that can be crumbled or reduced to powder by hand pressure when dry. Highlighted areas in Table 2 are ACM.

Table 2- Homogenous Areas

HA	Suspect ACM	Friable	Condition & HA Category	Disturbance
A	Plaster	NA	Damaged Surfacing Material	NA
B	Wall Texture	NA	Damaged Surfacing Material	NA
C	Light Grey Aircell TSI	Yes	Damaged or Significantly Damaged TSI	High Potential
D	Drywall	NA	Damaged Miscellaneous Material	NA
E	Brown TSI	NA	Damaged or Significantly Damaged TSI	NA
F	Bulk Insulation	NA	Damaged or Significantly Damaged TSI	NA
G	12x12 Floor Tile & Mastic	No	Damaged Miscellaneous Material	Low Potential
H	9x9 Floor Tile & Mastic	No	Damaged Miscellaneous Material	Low Potential
I	HVAC Vibration Damper	NA	Good Miscellaneous Material	NA
J	Linoleum	NA	Good Miscellaneous Material	NA
K	Electrical Wire Insulation	NA	Good Miscellaneous Material	NA
L	Roofing Mastic	No	Damaged Miscellaneous Material	Low Potential
M	1x1 Ceiling Tiles	NA	Damaged Miscellaneous Material	NA
N	Wallpaper	NA	Damaged Miscellaneous Material	NA
O	Window Glazing	NA	Damaged Miscellaneous Material	NA
P	Pipe Wrap	NA	Damaged or Significantly Damaged TSI	NA
Q	Black Pipe Insulation	Yes	Damaged or Significantly Damaged TSI	High Potential

Summary and Description of HAs Identified as ACM.

Seventeen (17) separate HA identified in Table 2. Of these 17 HAs, five (5) were found to be ACM. These five HAs containing ACM are described as follows:

HA-C. Aircell TSI (ACTSI) was observed on each floor surveyed. The asbestos treated cardboard ACTSI appears to have been used as the original insulation material for steam supply and return condensate lines as well as hot potable water lines.

NOTE 1: Cork TSI was observed in several areas and it is believed the cork was utilized on chilled water piping and not on hot pipes.

The hotel boiler room is located in the northwest corner of basement in an 1800 square foot sub-basement. This sub-basement area was not sampled due to 2-3 feet of standing water. However, visual observations suggest the presence of ACTSI insulated piping along with hard wraps on two boilers and two tanks located inside this area. The main steam header piping exit from the west side of the boiler room where supply and condensate lines are suspended from basement ceilings. This piping configuration supplies the vertical pipe chases to floors above and the barber shop located in southwest corner of basement.

The steam and condensate lines supplying the first and second floor are inside six (6) vertical pipe chases. Hot potable water system piping is also ACTSI covered and utilize the same corridors to supply hotel rooms, kitchen and restaurant on first floor and offices, salon and shops on second floor.

Fifteen (15) vertical pipe chases were identified that appear to supply all floors from the third floor upwards to the roof garden and auditorium with the steam supply and condensate lines

Each hotel room steam radiator heater on each floor appears to be supplied from these vertical chase supply lines splitting off and traveling through the crawlspace between the floor and the corresponding ceiling of rooms immediately below. One supply and return condensate line supplies two adjoining rooms through the common wall. Hot potable water pipes are also ACTSI insulated and travel the same chases to the individual rooms and then split off into local pipe chases located inside each bathroom wall cavity.

Floors three through seven appear to be identical in general construction and ACTSI locations. However, the eighth floor also has ACTSI located above the hallway ceiling supplying the roof garden areas.

NOTE 2: There is visual ACTSI debris located throughout facility. This debris has been dislodged by environmental degradation and also by vandalism throughout the facility.

NOTE 3: Estimated quantities for ACTSI are impossible to generate without destructive techniques being implemented.

HA-G. 12” x 12” Vinyl Asbestos Floor Tile (VAT) was identified only on the first floor. Asbestos containing floor tile was located in the SW corner that housed the original two retail

stores. There is approximately 1625 square feet of black VAT and black mastic remaining in this area.

HA-H. 9" x 9" Vinyl Asbestos Floor Tile (VAT) was identified on second floor through the eighth floor. Each floor is described as follows.

H1. First Floor Porter's Office located behind main lobby contained approximately 24 square feet of black VAT and black mastic.

H2. Second Floor Private Dining Hallway located center west wing contained approximately 400 square feet of red VAT and black mastic.

H3. Third Floor Hotel Rooms 303 & 304 located inside center of west wing contained approximately 312 square feet of brown VAT and black mastics.

H4. Fifth Floor Hotel Rooms 503 located inside center of west wing contained approximately 156 square feet of green VAT and black mastic.

H5. Sixth Floor Hotel Rooms 607 & 608 located inside center of west wing contained approximately 312 square feet of green VAT and black mastics.

H6. Seventh Floor Hotel Rooms 748 located inside center of west wing contained approximately 156 square feet of light green VAT and black mastic.

H7. Eighth Floor Hotel Rooms 805 located inside center of west wing contained approximately 330 square feet of tan/brown VAT and black mastic. Smoking rest room contained approximately 40 square feet of brown VAT and black mastic.

H8. The exposed 9" x 9" Vinyl Floor Tile and tile debris remaining on the vacant concrete slabs located immediately north of hotel building contains blue/black or red VAT and black mastic.

HA-L. Roof Mastic sealing the roof/parapet perimeter of the roof garden contained ACM. It is also assumed that the remaining roof mastics are homogeneous and therefore are considered ACM.

HA-Q. Black Pipe Insulation above basement hallway between HVAC Shop and Pump Maintenance Shop. The TSI pipe wrap was loose allowing inspector to observe a different TSI material than the ACTSI. This area is assumed to be a patch and therefore all black TSI encountered must be assumed to be asbestos containing.

Representative photographic documentation of HA material location, condition, accessibility, etc., are furnished as Appendix C.

Conclusion.

HEC concludes that the entire Hotel Grim complex be considered asbestos contaminated for demolition and asbestos abatement purposes due to the observed loose or deteriorated ACTSI debris inside pipe chases, inside crawlspaces, inside the exposed hotel room walls, along exposed corridors throughout the building interior, and ACTSI loose debris laying on corridor floors where "tracking" has occurred. Plaster walls and ceilings must be demolished to properly gain access to the vertical pipe chases and crawlspaces.

Recommendations.

HEC recommends…

that before any demolition or renovation operation can be performed, all contaminated materials must be removed from facility by Texas Department State Health Services licensed asbestos personnel in accordance with the current version of Texas Asbestos Health Protection Rules. This includes a site specific project design specifications be developed addressing the project management responsibilities, asbestos abatement protocols, air monitoring protocols, along with the transportation and disposal of all contaminated waste materials.

that during any demolition or renovation, any suspect asbestos containing material not previously identified is observed, the operation is halted and that material sampled or it must be presumed to be asbestos containing material and proper procedures are followed to abate this material.

Limitations.

This report was prepared for the exclusive use of the Terracon, and/or its assignees to aid in the identification and management of ACM located at the Hotel Grim, 301 N. State Line, Texarkana, Texas. HEC performed this service in a manner consistent with the level of care and expertise exercised by members of the environmental auditing/risk assessment profession.

HEC does not imply or guarantee that every material on the property, or in the structure inspected, which may potentially have asbestos as a component has been identified and/or sampled. Over 3,000 materials/products produced in or imported into the United States have been identified in which asbestos has historically been a component. The sampling program is intended to identify accessible materials most likely to contain asbestos in quantities subject to regulation. A guarantee that all asbestos materials have been identified and/or sampled would require cost-prohibitive and destructive sampling protocols.

All conclusions and recommendations regarding this property represent the professional opinions of the personnel involved with the project, and the results of this report should not be considered a legal interpretation of existing environmental regulations. HEC assumes no responsibility or liability for errors in data utilized from sources outside of or developments resulting from situations outside the scope of this project. If additional information is discovered or presented to HEC, we reserve the right to modify this report without notice to the client.

Technical Assistance.

If HEC can be of any assistance to concerning this project, please do not hesitate to call the undersigned at (870) 772-4700.

Kevin W. Stanley
Asbestos Inspector
HEC Environmental Group, Inc.

Jerry T. Jones, RPIH
Asbestos Individual Consultant
HEC Environmental Group, Inc.

Appendix A - Laboratory Results & Chain of Custody

ASBESTOS BULK ANALYSIS REPORT

Date: March 27, 2015

HEC Environmental Group, Inc.

Report: 2915-0868
T15147 / Grim Hotel

This document shall be considered a duly signed original report of the results obtained from the analyses performed. All analyses are done within government guidelines and regulations.

Gary R. Simmons
Laboratory Manager

Lab Comments on Project: N/A

306 W. Edgewood Dr., Suite D, Friendswood, TX 77546 www.apasi.net Office (281) 648-9918 | Fax (281) 648-9595

PLM (Bulk) - Asbestos Analysis Report - Visual ID

(EPA Method 600/R-93-116 Visual Area Estimation)

HEC Environmental Group, Inc.
409 Hazel Street
TexArkana, AR 71854
870-772-4700
Contact: Jerry Jones

Report Number: 2915-0868
Report Date: March 27, 2015
Samples Collected: March 17-18, 2015
Date Received: March 24, 2015
Turn-around time: 72 Hours

Job ID / Site: T15147 / Grim Hotel

Client Sample Number	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fibrous Type & %	Matrix
147-1	2915-0868-01	Green,White,Tan / Plaster / Fibrous / Homogeneous	None Detected	Synthetic 2%	Binder
147-2	2915-0868-02A	Black,Tan / Paint / NonFibrous / Homogeneous	None Detected	None Detected	Binder
	2915-0868-02B	White / Paint,Texture / NonFibrous / Homogeneous	None Detected	None Detected	Binder
147-3	2915-0868-03	Light Grey / Insulation / Fibrous / Homogeneous	Chrysotile 70%	Cellulose 10%	Binder
147-4	2915-0868-04	Brown,Off White / Drywall / Fibrous / Homogeneous	None Detected	Cellulose 10%	Binder
147-5	2915-0868-05	White,Tan / Plaster / Fibrous / Homogeneous	None Detected	Synthetic 2%	Binder
147-6	2915-0868-06	Light Grey / Insulation / Fibrous / Homogeneous	Chrysotile 70%	Cellulose 10%	Binder
147-7	2915-0868-07	Brown / Insulation / Fibrous / Homogeneous	None Detected	Cellulose 10% Synthetic 80%	Binder
147-8	2915-0868-08	White,Tan / Plaster / Fibrous / Homogeneous	None Detected	Synthetic 2%	Binder
147-9	2915-0868-09	Brown / Insulation / Fibrous / Homogeneous	None Detected	Synthetic 10%	Binder

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147-10	2915-0868-10	White,Tan / Plaster / Fibrous / Homogeneous	None Detected	Synthetic 2%	Binder
147-11	2915-0868-11	Tan / Insulation / Fibrous / Homogeneous	None Detected	Cellulose 95%	Binder
147-12	2915-0868-12	Green,White,Tan / Plaster / Fibrous / Homogeneous	None Detected	Synthetic 2%	Binder
147-13	2915-0868-13A	Black,Brown / 12x12 Floor Tile / Fibrous / Homogeneous	Chrysotile 5%	None Detected	Binder
	2915-0868-13B	Black / Mastic / Fibrous / Homogeneous	Chrysotile 5%	None Detected	Binder
147-14	2915-0868-14A	Black,Brown / 12x12 Floor Tile / Fibrous / Homogeneous	Chrysotile 5%	None Detected	Binder
	2915-0868-14B	Black / Mastic / Fibrous / Homogeneous	Chrysotile 5%	None Detected	Binder
147-15	2915-0868-15A	Black,Brown / 12x12 Floor Tile / Fibrous / Homogeneous	Chrysotile 5%	None Detected	Binder
	2915-0868-15B	Black / Mastic / Fibrous / Homogeneous	Chrysotile 5%	None Detected	Binder
147-16	2915-0868-16	White,Tan / Plaster / Fibrous / Homogeneous	None Detected	Synthetic 2%	Binder

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147-17	2915-0868-17	White / Plaster / NonFibrous / Homogeneous	None Detected	None Detected	Binder
147-18	2915-0868-18	White,Tan / Plaster / Fibrous / Homogeneous	None Detected	Synthetic 2%	Binder
147-19	2915-0868-19	Off White / Plaster / Fibrous / Homogeneous	None Detected	Synthetic 2%	Binder
147-20	2915-0868-20	White,Tan / Plaster / Fibrous / Homogeneous	None Detected	Synthetic 2%	Binder
147-21	2915-0868-21A	Black / 9x9 Floor Tile / Fibrous / Homogeneous	Chrysotile 3%	Cellulose 3%	Binder
	2915-0868-21B	Black / Mastic / Fibrous / Homogeneous	Chrysotile 5%	None Detected	Binder
147-22	2915-0868-22A	Black / 9x9 Floor Tile / Fibrous / Homogeneous	Chrysotile 3%	Cellulose 3%	Binder
	2915-0868-22B	Black / Mastic / Fibrous / Homogeneous	Chrysotile 5%	None Detected	Binder
147-23	2915-0868-23A	Black / 9x9 Floor Tile / Fibrous / Homogeneous	Chrysotile 3%	Cellulose 3%	Binder
	2915-0868-23B	Black / Mastic / Fibrous / Homogeneous	Chrysotile 5%	None Detected	Binder

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Client Sample Number	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fibrous Type & %	Matrix
147-24	2915-0868-24A	White / Texture / NonFibrous / Homogeneous	None Detected	None Detected	Binder
	2915-0868-24B	Tan / Plaster / Fibrous / Homogeneous	None Detected	Synthetic 2%	Binder
147-25	2915-0868-25	Green / Vibration Damper / Fibrous / Homogeneous	None Detected	Cellulose 90%	Binder
147-26	2915-0868-26	Brown,Off White / Sheetrock / Fibrous / Homogeneous	None Detected	Cellulose 10%	Binder
147-27	2915-0868-27A	Off White / Paint / NonFibrous / Homogeneous	None Detected	None Detected	Binder
	2915-0868-27B	Brown,Off White / Sheetrock / Fibrous / Homogeneous	None Detected	Cellulose 10%	Binder
147-28	2915-0868-28A	Brown,White / 9x9 Floor Tile / NonFibrous / Homogeneous	None Detected	None Detected	Binder
	2915-0868-28B	Yellow,Tan / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binder
147-29	2915-0868-29A	Brown,White / 9x9 Floor Tile / NonFibrous / Homogeneous	None Detected	None Detected	Binder
	2915-0868-29B	Yellow,Tan / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binder

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Client Sample Number	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fibrous Type & %	Matrix
147-30	2915-0868-30A	Brown,White / 9x9 Floor Tile / NonFibrous / Homogeneous	None Detected	None Detected	Binder
	2915-0868-30B	Yellow,Tan / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binder
147-31	2915-0868-31A	Black,Brown / 9x9 Floor Tile / NonFibrous / Homogeneous	None Detected	None Detected	Binder
	2915-0868-31B	Yellow,Tan / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binder
147-32	2915-0868-32A	Black,Brown / 9x9 Floor Tile / NonFibrous / Homogeneous	None Detected	None Detected	Binder
	2915-0868-32B	Yellow,Tan / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binder
147-33	2915-0868-33A	Black,Brown / 9x9 Floor Tile / NonFibrous / Homogeneous	None Detected	None Detected	Binder
	2915-0868-33B	Yellow,Tan / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binder
147-34	2915-0868-34A	Beige / Wrap / Fibrous / Homogeneous	None Detected	Cellulose 100%	
	2915-0868-34B	Off White / Insulation / Fibrous / Homogeneous	Chrysotile 70%	Cellulose 10%	Binder

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147-35	2915-0868-35	Green,Brown / Vibration Damper / Fibrous / Homogeneous	None Detected	Cellulose 90%	Binder
147-36	2915-0868-36	Tan,Off White / Linoleum / Fibrous / Homogeneous	None Detected	Cellulose 15% Fibrous Glass 2%	Binder
147-37	2915-0868-37	Tan,Off White / Linoleum / Fibrous / Homogeneous	None Detected	Cellulose 15% Fibrous Glass 2%	Binder
147-38	2915-0868-38A	Light Tan / 9x9 Floor Tile / Fibrous / Homogeneous	Chrysotile 5%	None Detected	Binder
	2915-0868-38B	Dark Brown,Grey / Mastic,Material / Fibrous / Homogeneous	None Detected	Cellulose 45% Synthetic 5%	Binder
147-39	2915-0868-39A	Light Tan / 9x9 Floor Tile / Fibrous / Homogeneous	Chrysotile 5%	None Detected	Binder
	2915-0868-39B	Dark Brown,Grey / Mastic,Material / Fibrous / Homogeneous	None Detected	Cellulose 45% Synthetic 5%	Binder
147-40	2915-0868-40A	Light Tan / 9x9 Floor Tile / Fibrous / Homogeneous	Chrysotile 5%	None Detected	Binder
	2915-0868-40B	Dark Brown,Grey / Mastic,Material / Fibrous / Homogeneous	None Detected	Cellulose 45% Synthetic 5%	Binder
147-41	2915-0868-41A	Grey,Red,Green / 9x9 Floor Tile / Fibrous / Homogeneous	Chrysotile 5%	None Detected	Binder

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147-41	2915-0868-41B	Dark Brown / Mastic / Fibrous / Homogeneous	None Detected	Cellulose 2%	Binder
147-42	2915-0868-42	White,Tan / Plaster / Fibrous / Homogeneous	None Detected	Synthetic 2%	Binder
147-43	2915-0868-43	White,Tan / Plaster / Fibrous / Homogeneous	None Detected	Synthetic 2%	Binder
147-44	2915-0868-44	White,Tan / Plaster / Fibrous / Homogeneous	None Detected	Synthetic 2%	Binder
147-45	2915-0868-45	White,Tan / Plaster / Fibrous / Homogeneous	None Detected	Synthetic 2%	Binder
147-46	2915-0868-46A	Light Green / 9x9 Floor Tile / Fibrous / Homogeneous	Chrysotile 15%	None Detected	Binder
	2915-0868-46B	Black,Brown / Mastic,Material / Fibrous / Homogeneous	Chrysotile 3%	Cellulose 70%	Binder
147-47	2915-0868-47	White,Brown / Plaster / Fibrous / Homogeneous	None Detected	Synthetic 2%	Binder
147-48	2915-0868-48A	Dark Brown / 9x9 Floor Tile / Fibrous / Homogeneous	Chrysotile 10%	None Detected	Binder
	2915-0868-48B	Black / Mastic / Fibrous / Homogeneous	Chrysotile 5%	None Detected	Binder

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Client Sample Number	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fibrous Type & %	Matrix
147-49	2915-0868-49A	Dark Brown / 9x9 Floor Tile / Fibrous / Homogeneous	Chrysotile 10%	None Detected	Binder
	2915-0868-49B	Black / Mastic / Fibrous / Homogeneous	Chrysotile 5%	None Detected	Binder
147-50	2915-0868-50A	Dark Brown / 9x9 Floor Tile / Fibrous / Homogeneous	Chrysotile 10%	None Detected	Binder
	2915-0868-50B	Black / Mastic / Fibrous / Homogeneous	Chrysotile 5%	None Detected	Binder
147-51	2915-0868-51A	Brown / 9x9 Floor Tile / Fibrous / Homogeneous	Chrysotile 10%	None Detected	Binder
	2915-0868-51B	Black / Mastic / Fibrous / Homogeneous	Chrysotile 5%	None Detected	Binder
147-52	2915-0868-52	White,Tan / Plaster / Fibrous / Homogeneous	None Detected	Synthetic 2%	Binder
147-53	2915-0868-53	White / Plaster / NonFibrous / Homogeneous	None Detected	None Detected	Binder
147-54	2915-0868-54A	Off White / Paint,Texture / NonFibrous / Homogeneous	None Detected	None Detected	Binder
	2915-0868-54B	Brown,Off White / Sheetrock / Fibrous / Homogeneous	None Detected	Cellulose 10%	Binder

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Client Sample Number	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fibrous Type & %	Matrix
147-55	2915-0868-55A	Green / 9x9 Floor Tile / Fibrous / Homogeneous	Chrysotile 10%	None Detected	Binder
	2915-0868-55B	Black / Mastic / Fibrous / Homogeneous	Chrysotile 5%	None Detected	Binder
147-56	2915-0868-56A	Black,Off White / 9x9 Floor Tile / Fibrous / Homogeneous	Chrysotile 10%	None Detected	Binder
	2915-0868-56B	Black,Brown / Mastic,Material / Fibrous / Homogeneous	None Detected	Cellulose 60%	Binder
147-57	2915-0868-57A	Green / 9x9 Floor Tile / Fibrous / Homogeneous	Chrysotile 10%	None Detected	Binder
	2915-0868-57B	Black / Mastic / Fibrous / Homogeneous	Chrysotile 5%	None Detected	Binder
147-58	2915-0868-58A	Light Blue / 9x9 Floor Tile / Fibrous / Homogeneous	Chrysotile 10%	None Detected	Binder
	2915-0868-58B	Black / Mastic / Fibrous / Homogeneous	Chrysotile 5%	None Detected	Binder
147-59	2915-0868-59A	Light Red / 9x9 Floor Tile / Fibrous / Homogeneous	Chrysotile 5%	None Detected	Binder
	2915-0868-59B	Black / Mastic / Fibrous / Homogeneous	Chrysotile <1%	None Detected	Binder

PLM (Bulk) - Asbestos Analysis Report - Visual ID

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409 Hazel Street	**Report Date:** March 27, 2015
TexArkana, AR 71854	**Samples Collected:** March 17-18, 2015
870-772-4700	**Date Received:** March 24, 2015
Contact: Jerry Jones	**Turn-around time:** 72 Hours

Job ID / Site: T15147 / Grim Hotel

Client Sample Number	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fibrous Type & %	Matrix
147-60	2915-0868-60A	Light Blue / 9x9 Floor Tile / Fibrous / Homogeneous	Chrysotile 10%	None Detected	Binder
	2915-0868-60B	Black / Mastic / Fibrous / Homogeneous	Chrysotile 5%	None Detected	Binder
147-61	2915-0868-61A	Grey,Black / 9x9 Floor Tile / Fibrous / Homogeneous	Chrysotile 5%	None Detected	Binder
	2915-0868-61B	Black / Mastic / Fibrous / Homogeneous	Chrysotile <1%	None Detected	Binder
147-62	2915-0868-62A	Dark Brown / 9x9 Floor Tile / Fibrous / Homogeneous	Chrysotile 10%	None Detected	Binder
	2915-0868-62B	Black / Mastic / Fibrous / Homogeneous	None Detected	Cellulose 5%	Binder
147-63	2915-0868-63	Grey,Black / Wire Insulation / Fibrous / Homogeneous	None Detected	Cellulose 35%	Binder
147-64	2915-0868-64	Grey,Black / Wire Insulation / Fibrous / Homogeneous	None Detected	Cellulose 35%	Binder
147-65	2915-0868-65	Brown,Black / Wire Insulation / Fibrous / Homogeneous	None Detected	Cellulose 35%	Binder
147-66	2915-0868-66	Grey,Black / Roofing Mastic / Fibrous / Homogeneous	Chrysotile 10%	None Detected	Binder

PLM (Bulk) - Asbestos Analysis Report - Visual ID

(EPA Method 600/R-93-116 Visual Area Estimation)

HEC Environmental Group, Inc.
409 Hazel Street
TexArkana, AR 71854
870-772-4700
Contact: Jerry Jones

Report Number: 2915-0868
Report Date: March 27, 2015
Samples Collected: March 17-18, 2015
Date Received: March 24, 2015
Turn-around time: 72 Hours

Job ID / Site: T15147 / Grim Hotel

Client Sample Number	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fibrous Type & %	Matrix
147-67	2915-0868-67	White,Brown / Ceiling Tile / Fibrous / Homogeneous	None Detected	Cellulose 85%	Binder
147-68	2915-0868-68	White,Brown / Ceiling Tile / Fibrous / Homogeneous	None Detected	Cellulose 85%	Binder
147-69	2915-0868-69	White,Brown / Ceiling Tile / Fibrous / Homogeneous	None Detected	Cellulose 85%	Binder
147-70	2915-0868-70	White,Brown / Wallpaper / Fibrous / Homogeneous	None Detected	Cellulose 50%	Binder
147-71	2915-0868-71	White,Brown / Wallpaper / Fibrous / Homogeneous	None Detected	Cellulose 50%	Binder
147-72	2915-0868-72	White,Brown / Wallpaper / Fibrous / Homogeneous	None Detected	Cellulose 50%	Binder
147-73	2915-0868-73	White,Light Tan / Window Glazing / NonFibrous / Homogeneous	None Detected	None Detected	Binder
147-74	2915-0868-74	White,Light Tan / Window Glazing / NonFibrous / Homogeneous	None Detected	None Detected	Binder
147-75	2915-0868-75	White,Light Tan / Window Glazing / NonFibrous / Homogeneous	None Detected	None Detected	Binder
147-76	2915-0868-76	White,Light Tan / Window Glazing / NonFibrous / Homogeneous	None Detected	None Detected	Binder

PLM (Bulk) - Asbestos Analysis Report - Visual ID

(EPA Method 600/R-93-116 Visual Area Estimation)

HEC Environmental Group, Inc.
409 Hazel Street
TexArkana, AR 71854
870-772-4700
Contact: Jerry Jones

Report Number: 2915-0868
Report Date: March 27, 2015
Samples Collected: March 17-18, 2015
Date Received: March 24, 2015
Turn-around time: 72 Hours

Job ID / Site: T15147 / Grim Hotel

Client Sample Number	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fibrous Type & %	Matrix
147-77	2915-0868-77	White / Wall Texture / NonFibrous / Homogeneous	None Detected	None Detected	Binder
147-78	2915-0868-78	White / Wall Texture / NonFibrous / Homogeneous	None Detected	None Detected	Binder
147-79	2915-0868-79	White / Wall Texture / NonFibrous / Homogeneous	None Detected	None Detected	Binder
147-80	2915-0868-80	Tan / Silver / Pipe Wrap / Fibrous / Homogeneous	None Detected	Cellulose 95%	Binder
147-81	2915-0868-81A	Black / Pipe Insulation / Fibrous / Homogeneous	Chrysotile 30%	Cellulose 10% Synthetic 3%	Binder
	2915-0868-81B	Brown / Pipe Insulation / Fibrous / Homogeneous	None Detected	Cellulose 95%	Binder
147-82	2915-0868-82A	Black / Pipe Insulation / Fibrous / Homogeneous	Chrysotile 30%	Cellulose 10% Synthetic 5%	Binder
	2915-0868-82B	Brown / Pipe Insulation / Fibrous / Homogeneous	None Detected	Cellulose 95%	Binder
147-83	2915-0868-83	Black / 9x9 Floor Tile / Fibrous / Homogeneous	Chrysotile 5%	None Detected	Binder
147-84	2915-0868-84	Black / 9x9 Floor Tile / Fibrous / Homogeneous	Chrysotile 5%	None Detected	Binder

PLM (Bulk) - Asbestos Analysis Report - Visual ID

(EPA Method 600/R-93-116 Visual Area Estimation)

HEC Environmental Group, Inc.	**Report Number:** **2915-0868**
409 Hazel Street	**Report Date:** **March 27, 2015**
TexArkana, AR 71854	**Samples Collected:** **March 17-18, 2015**
870-772-4700	**Date Received:** **March 24, 2015**
Contact: Jerry Jones	**Turn-around time:** **72 Hours**

Job ID / Site: **T15147 / Grim Hotel**

Client Sample Number	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fibrous Type & %	Matrix
147-85	2915-0868-85	Black / 9x9 Floor Tile / Fibrous / Homogeneous	Chrysotile 5%	None Detected	Binder
147-86	2915-0868-86A	Red,Brown / 9x9 Floor Tile / Fibrous / Homogeneous	Chrysotile 15%	None Detected	Binder
	2915-0868-86B	Black / Mastic / Fibrous / Homogeneous	Chrysotile 5%	None Detected	Binder
147-87	2915-0868-87A	Red,Brown / 9x9 Floor Tile / Fibrous / Homogeneous	Chrysotile 15%	None Detected	Binder
	2915-0868-87B	Black / Mastic / Fibrous / Homogeneous	Chrysotile 5%	None Detected	Binder
147-88	2915-0868-88A	Red,Brown / 9x9 Floor Tile / Fibrous / Homogeneous	Chrysotile 15%	None Detected	Binder
	2915-0868-88B	Black / Mastic / Fibrous / Homogeneous	Chrysotile 5%	None Detected	Binder
147-89	2915-0868-89	White,Tan / Plaster / Fibrous / Homogeneous	None Detected	Synthetic 2%	Binder
147-90	2915-0868-90	White / Plaster / NonFibrous / Homogeneous	None Detected	None Detected	Binder
147-91	2915-0868-91	White / Plaster / NonFibrous / Homogeneous	None Detected	None Detected	Binder

NVLAP Lab Code: 200633-0 PLM

TDSHS Asbestos License#: 30-0312 PLM/PCM

306 W. Edgewood Dr., Suite D, Friendswood, TX 77546 www.apasi.net Office (281) 648-9918 | Fax (281) 648-9595

APEX PRECISION ANALYTICAL SERVICES, INC.

Chain of Custody

APASI#: *for office use only* 2915-0868

Date Collected: 3/17-18/15	**Date Sent:** 3-23-15
Contact: Jerry Jones	**Special Instructions:**
Company: HEC Environmental Group	
Address: 409 Hazel St.	**P.O. #:**
Texarkana, AR71854-5214	**E-Mail:** leon@gotohec.com
Phone: 870-772-4700	**Fax:**

Turn Around Time: *(Circle One)* Urgent/ASAP | 24 Hours | 48Hours | (72 Hours) | 5 Days

Client Job Number/Name: T15147 / Grim Hotel

Mycology(Mold) Spore Trap-Air Samples
___ **Fungal/Mold spore count** by Air-O-Cell, Cyclex (d), BioCell, or other spore trap cassette/device

Phase Contrast Microscopy(PCM)-Air Samples
___ **Fiber Concentration** by NIOSH Method 7400 Issue 2

Industrial Hygiene-Air & Bulk Samples
___ **(RCF) Refractory Ceramic Fiber (Bulk) Identification** (Visual Estimation) by Polarized Light Microscopy
___ **Total Nuisance Dust (Air)** by NIOSH Method 0500
___ **Total Respirable Dust (Air)** by NIOSH Method 0600

Mycology(Mold) Bulk ID Samples
___ **Fungal/Mold Identification** – bulk sample, tape lift, swab

Polarized Light Microscopy(PLM)-Bulk Samples
91 **Asbestos Identification** (Visual Estimation) by EPA 600/R-93/116 Method
___ **Asbestos Identification** (Point Count) by EPA 600/M4-82-020 Method
___ **Asbestos Identification** (Soil/Prep) by Gravimetric Reduction

Sample #:	Location/Description:	Volume
147-1	Basement Barber Shop / Plaster Wall	
147-2	" Restroom / Texture Wall (2) Layers	
147-3	" S.E. Room / Aircell TSI	
147-4	" " " / Sheetrock Wall	
147-5	" " " / Plaster Wall	
147-6	" Utility Room / Aircell TSI	
147-7	" " " / Brown TSI	
147-8	" Hallway / Plaster Wall	
147-9	" Paint + Chemical Room / Brown TSI	
147-10	" " " " / Plaster Wall	
147-11	" Cold Storage / Bulk Insulation	

Relinquished by: [signature] **Received by:** C. Simmons

Date: 3-23-15 **Time:** 4:27 pm **Date:** 3/24/15 **Time:** 0930

306 West Edgewood Drive, Suite D, Friendswood, TX 77546 Office (281)648-9918 Fax (281)648-9595

2915-0868

APEX PRECISION ANALYTICAL SERVICES, INC.

Sample #:	Location/Description:	Volume
147-12	1st Floor S.W. Corner Room / Plaster Wall	
147-13	" " " " " / 12x12 Floor Tile	
147-14	" " " " " / " " "	
147-15	" " " " " / " " "	
147-16	" " S.E. Corner Room / Plaster Ceiling	
147-17	" " Lobby / Plaster Wall	
147-18	" " Dining Room / Plaster Ceiling	
147-19	" " Cafe / Plaster Wall	
147-20	" " Kitchen / " "	
147-21	" " Pantry / 9x9 Floor Tile	
147-22	" " " / " " "	
147-23	" " " / " " "	
147-24	" " Check Room / Sheetrock Wall North	
147-25	" " Kitchen / A/C Vibration Damper	
147-26	" " Check Room / Sheetrock Wall Center	
147-27	" " " " / " " South	
147-28	2nd Floor Rooms 213+214 / Black + White 9x9 Floor Tile	
147-29	" " " " " / " " " " "	
147-30	" " " " " / " " " " "	
147-31	" " " " " / Black 9x9 Floor Tile	
147-32	" " " " " / " " " "	
147-33	" " " " " / " " " "	
147-34	" " Manager's Office Pipe Chase / Aircell TST	
147-35	" " Private Dining Corridor / A/C Vibration Damper	
147-36	3rd Floor Room 320 / Linoleum	
147-37	" " " " / "	
147-38	" " Room 303 / 9x9 Floor Tile	
147-39	" " " " / " " "	
147-40	" " " " / " " "	
147-41	" " Room 304 Bathroom / " " "	
147-42	" " Hallway / Plaster Wall	
147-43	4th Floor " / " "	
147-44	5th Floor " / " "	
147-45	6th Floor " / " "	
147-46	7th Floor Room 748 / 9x9 Floor Tile	
147-47	" " " " / Plaster Ceiling	

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OS 3/24/15

2915-0868

APEX PRECISION ANALYTICAL SERVICES, INC.

Sample #:	Location/Description:	Volume
147-48	8th Floor Room 805 / 9x9 Floor Tile	
147-49	" " " " / " " "	
147-50	" " " " / " " "	
147-51	" " Smoking Restroom / " " "	
147-52	" " Hallway / Plaster Wall	
147-53	" " Room 805 / " Ceiling	
147-54	" " Hallway / Sheetrock Wall	
147-55	6th Floor Room 607 / 9x9 Floor Tile	
147-56	" " Chair Room next to 607 / 9x9 Floor Tile	
147-57	5th Floor Room 503 / 9x9 Floor Tile	
147-58	Exterior North Vacant Lot / 9x9 Floor Tile on Slab	
147-59	" " " " / " " " "	
147-60	" " " " / " " " "	
147-61	" " " " / " " " "	
147-62	" " " " / " " " "	
147-63	3rd Floor / Electric Wire Insulation	
147-64	5th Floor / " " "	
147-65	7th Floor / " " "	
147-66	8th Floor Roof Terrace / Roofing Mastic	
147-67	" " Hallway / 1x1 Ceiling Tile	
147-68	" " " / " " "	
147-69	" " " / " " "	
147-70	5th Floor Room 518 / Wallpaper	
147-71	" " " " / "	
147-72	" " " " / "	
147-73	3rd Floor / Window Glazing	
147-74	4th Floor / " "	
147-75	5th Floor / " "	
147-76	6th Floor / " "	
147-77	Basement Laundry Area / Wall Texture	
147-78	" " " / " "	
147-79	" " " / " "	
147-80	" Hallway / Pipe Wrap	
147-81	" " / Pipe Insulation	
147-82	" " / " "	
147-83	" Barber Shop Office / 9x9 Floor Tile	

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 3/24/15

2915-0868

APEX PRECISION ANALYTICAL SERVICES, INC.

Sample #:	Location/Description:	Volume
147-84	Basement Barber Shop Office / 9x9 Floor Tile	
147-85	" " " " / " " "	
147-86	2nd Floor Private Dining Corridor / 9x9 Floor Tile	
147-87	" " " " " / " " "	
147-88	" " " " " / " " "	
147-89	1st Floor Dining Room / Plaster Wall	
147-90	" " Lobby Desk / Plaster	
147-91	" " Dining Room Entry / Plaster Wall	
	Nothing Else Follows	

306 West Edgewood Drive, Suite D, Friendswood, TX 77546 Office (281)648-9918 Fax (281)648-9595

CJ 3/24/15

Appendix B - Credentials

TEXAS DEPARTMENT OF STATE HEALTH SERVICES

HEC ENVIRONMENTAL GROUP INC

is certified to perform as a

Asbestos Consultant Agency

in the State of Texas within the purview of Texas Occupations Code, chapter 1954, so long as this license is not suspended or revoked and is renewed according to the rules adopted by the Texas Board of Health.

DAVID LAKEY, M.D.
COMMISSIONER OF HEALTH

License Number: 100240

Expiration Date: 8/19/2015

Control Number: 96626

(Void After Expiration Date)

VOID IF ALTERED NON-TRANSFERABLE

Texas Department of State Health Services

Asbestos Individual Consultant

JERRY T JONES
License No. 105522
Control No. 96631
Expiration Date: 1/27/2016

Texas Department of State Health Services

Asbestos Inspector

KEVIN WAYNE STANLEY
License No. 603125
Control No. 97483
Expiration Date: 1/19/2016

Appendix C - Photographic Documentation

AircellTSI1.JPG

AircellTSI2.JPG

AircellTSI3.JPG

AircellTSI4.JPG

AircellTSI5.JPG

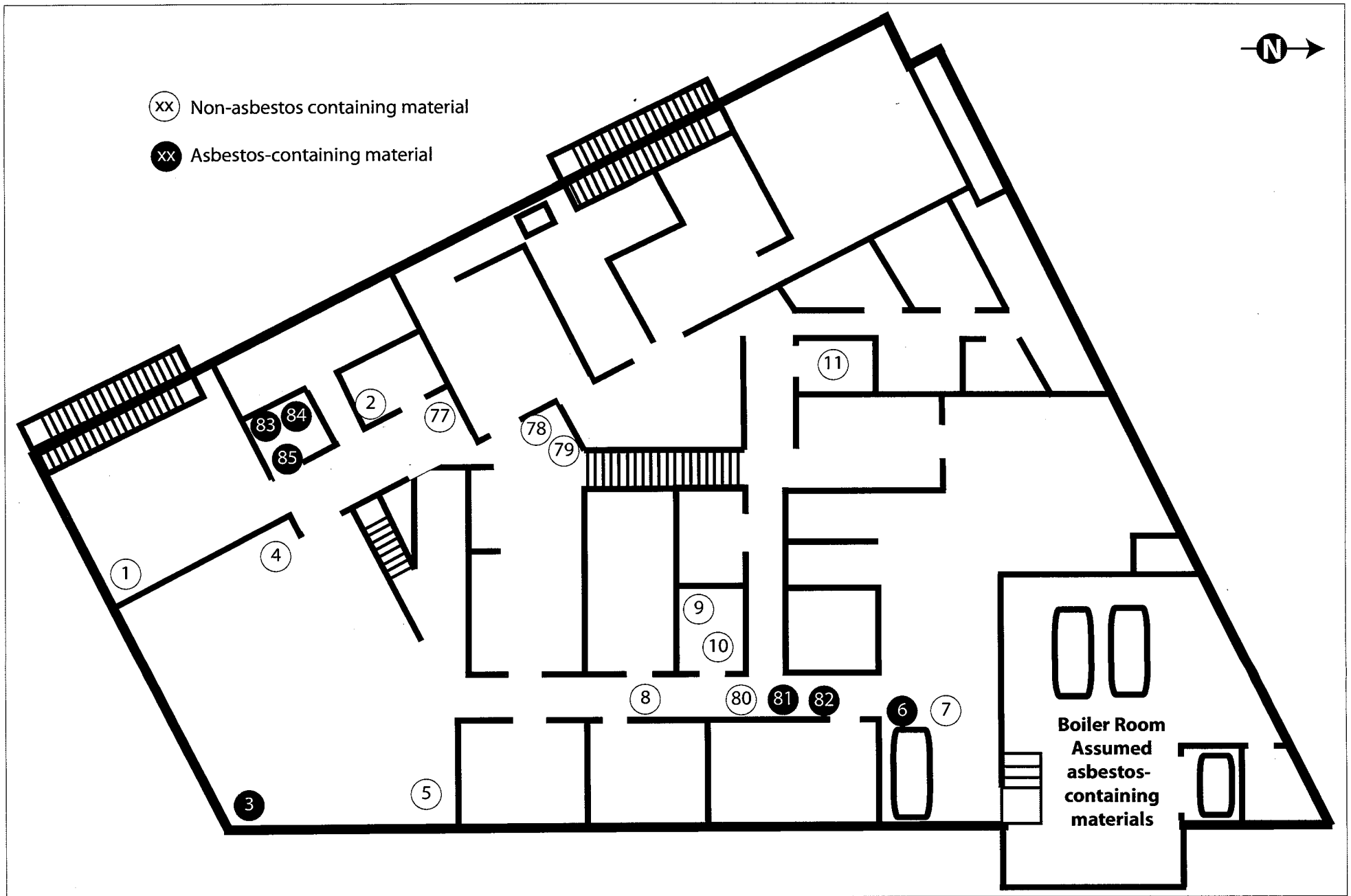
AircellTSI6.JPG

AircellTSI7.JPG

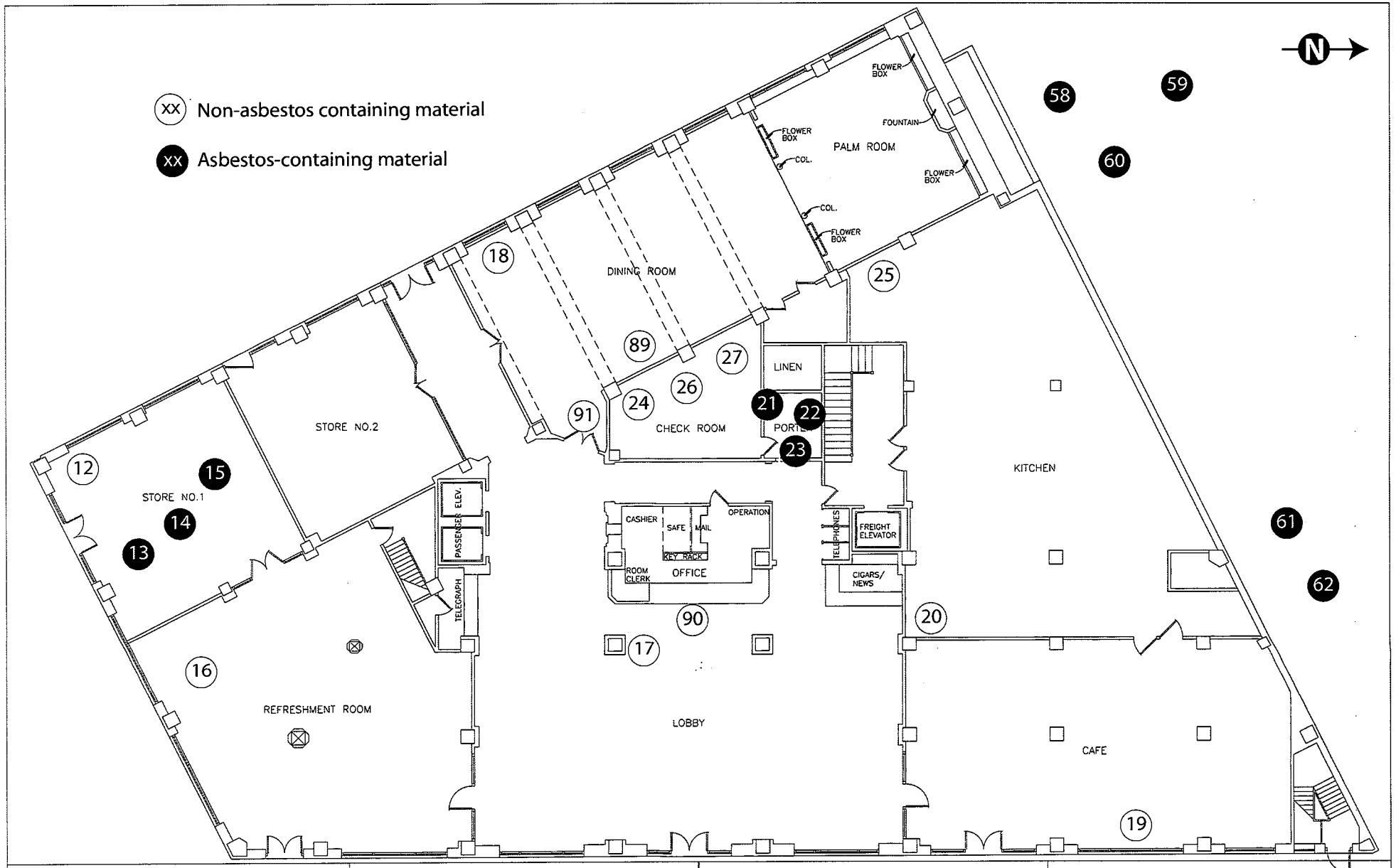
Exterior9x9.JPG

Interior9x9.JPG

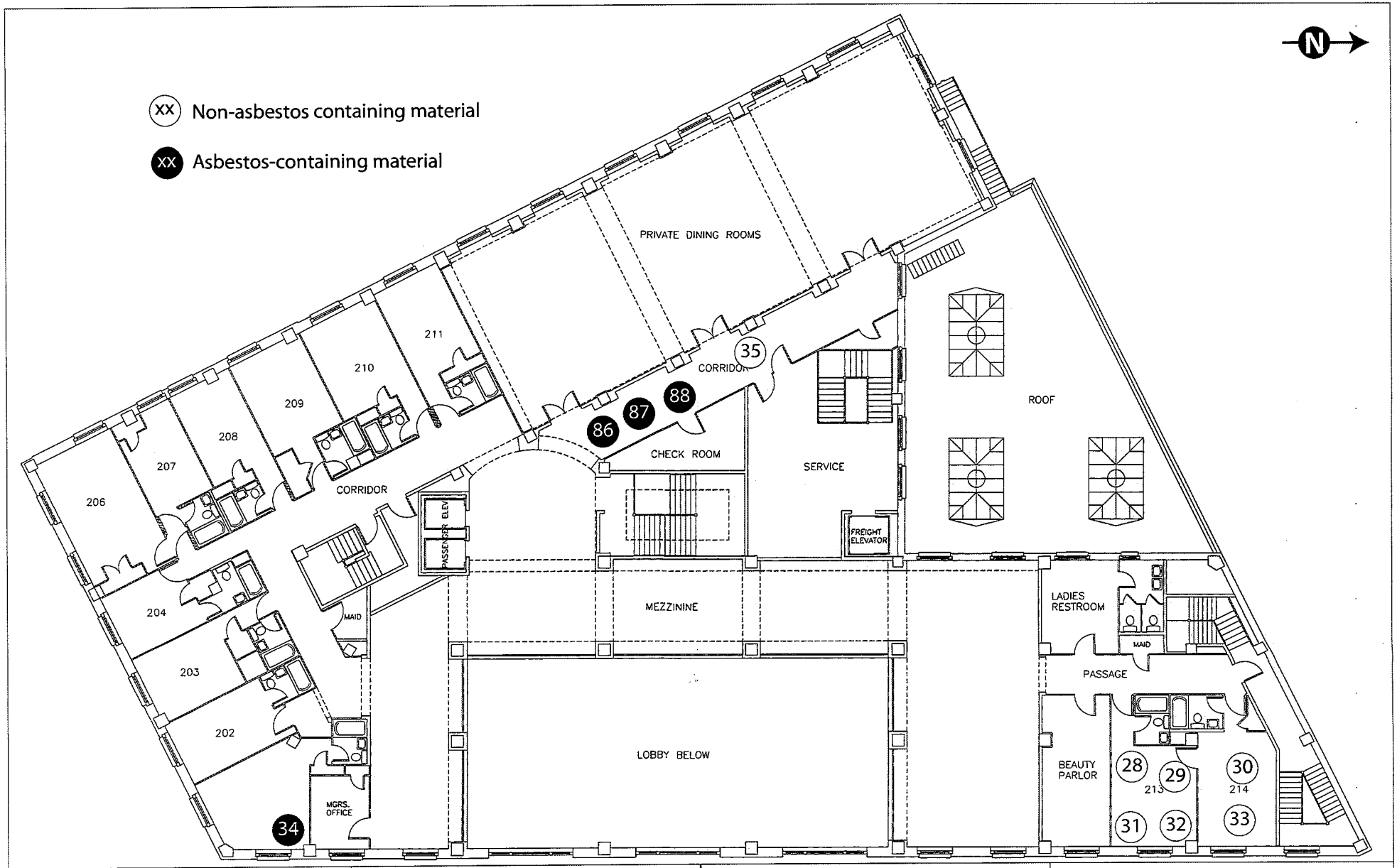
Appendix D - Sample Location Drawings



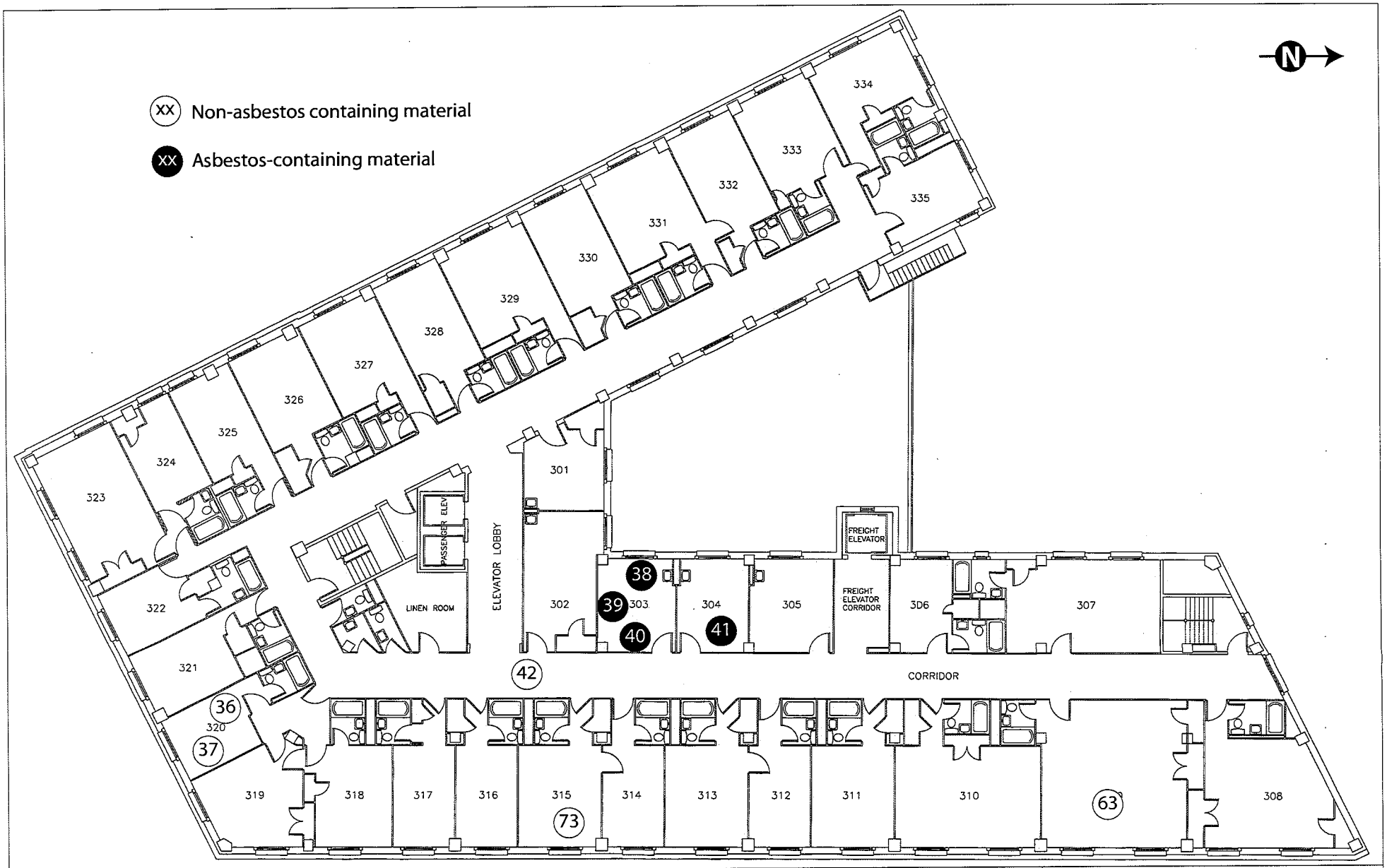
HOTEL GRIM 301 North State Line Avenue Texarkana, Texas 75501	**Asbestos Sample Location** **Basement Floor**	HEC Project # T15147 March 30, 2015	HEC Environmental Group, Inc. 409 Hazel Texarkana, AR 71854 870-772-4700



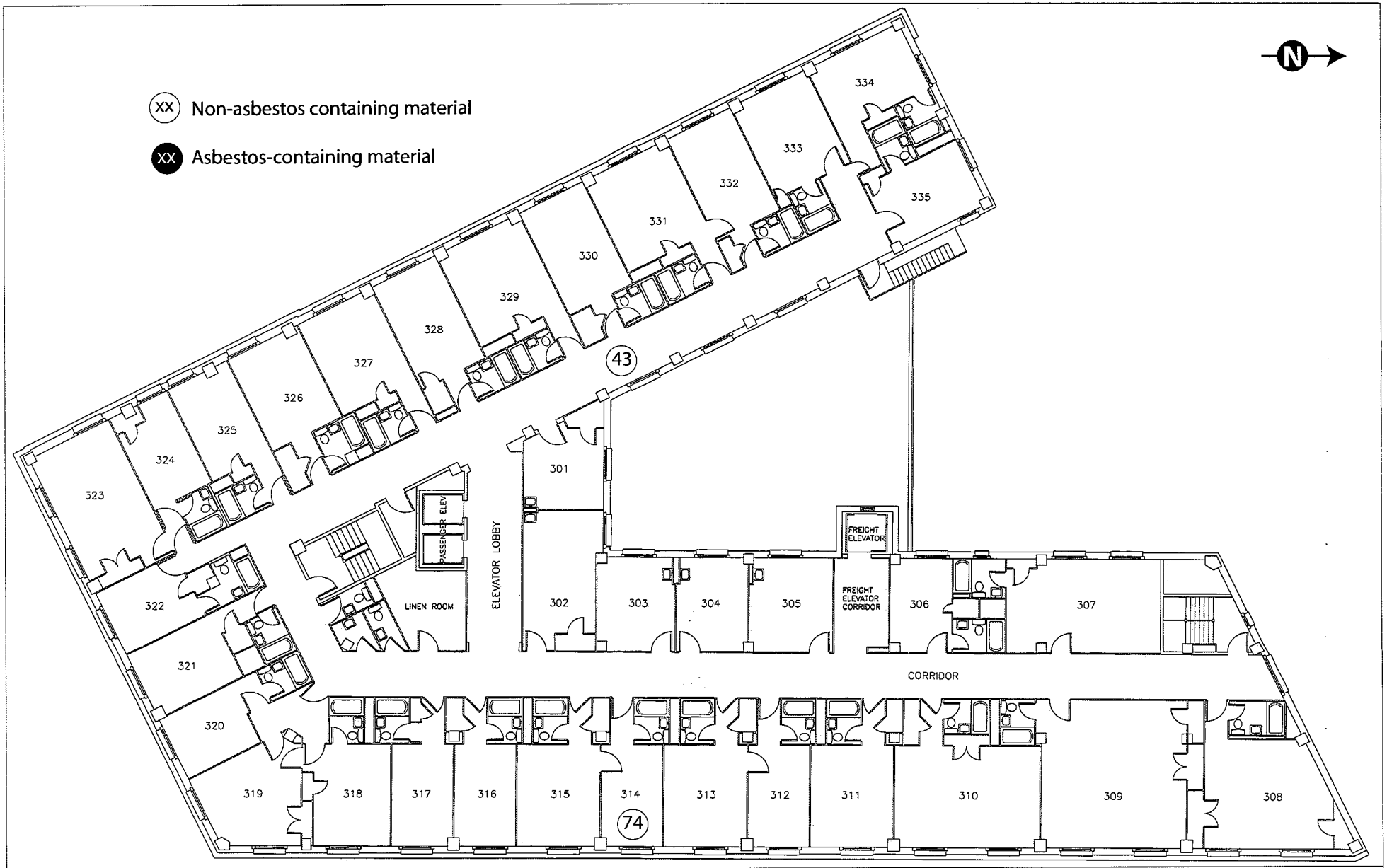
HOTEL GRIM 301 North State Line Avenue Texarkana, Texas 75501	**Asbestos Sample Location** **First Floor**	HEC Project # T15147 March 30, 2015	HEC Environmental Group, Inc. 409 Hazel Texarkana, AR 71854 870-772-4700



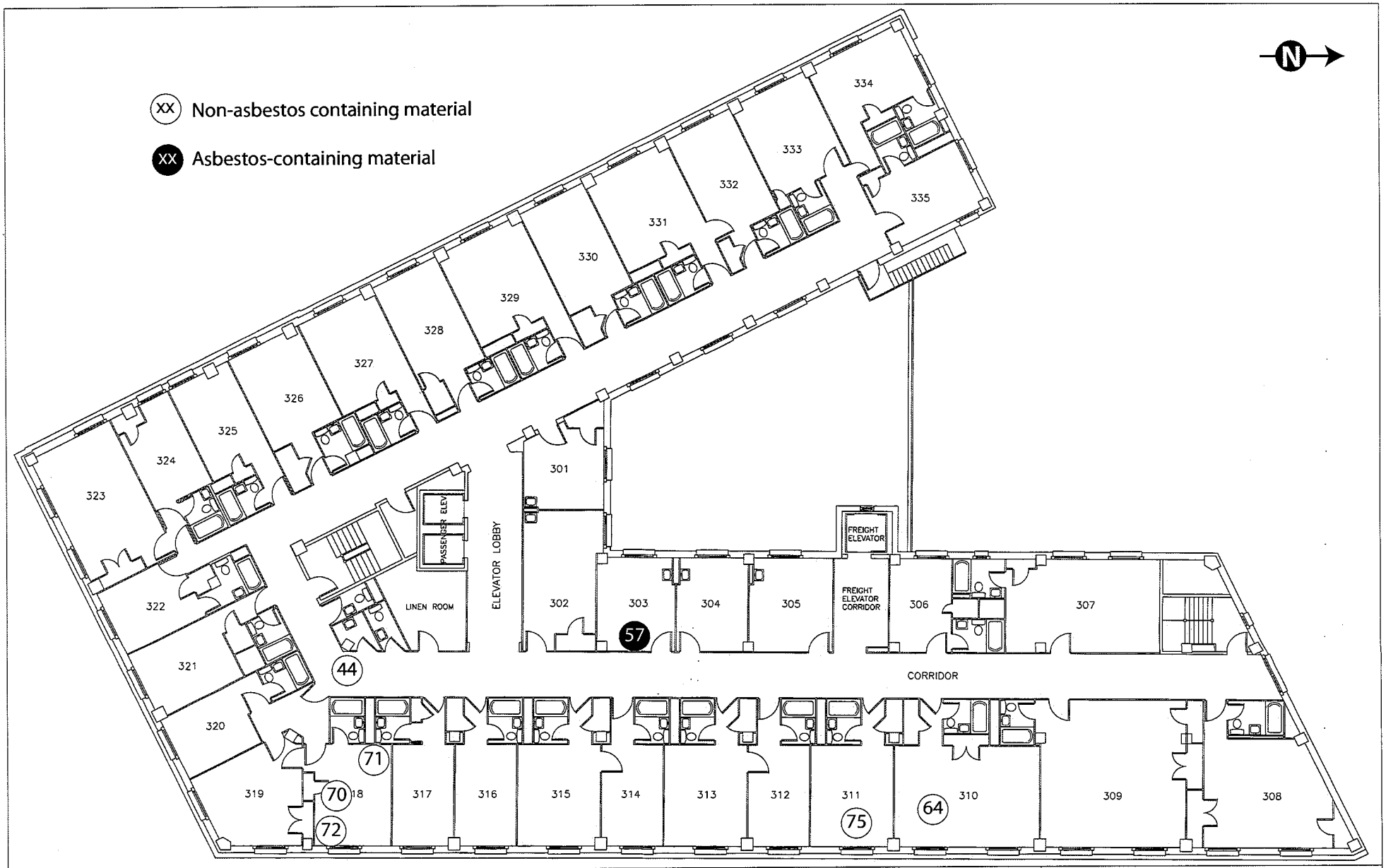
HOTEL GRIM 301 North State Line Avenue Texarkana, Texas 75501	**Asbestos Sample Location** **Second Floor**	HEC Project # T15147 March 30, 2015	HEC Environmental Group, Inc. 409 Hazel Texarkana, AR 71854 870-772-4700



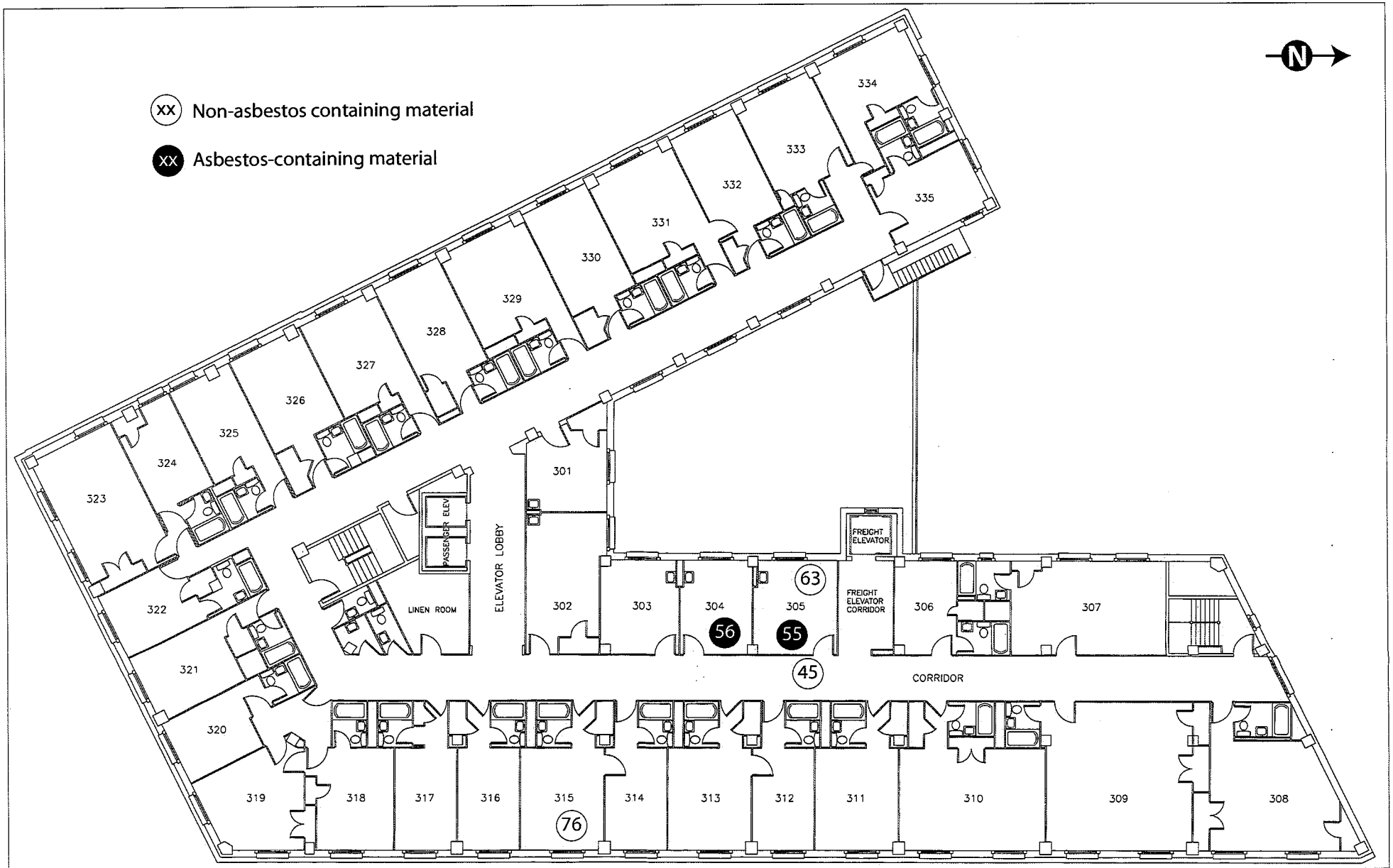
HOTEL GRIM 301 North State Line Avenue Texarkana, Texas 75501	**Asbestos Sample Location** **Third Floor**	HEC Project # T15147 March 30, 2015	HEC Environmental Group, Inc. 409 Hazel Texarkana, AR 71854 870-772-4700



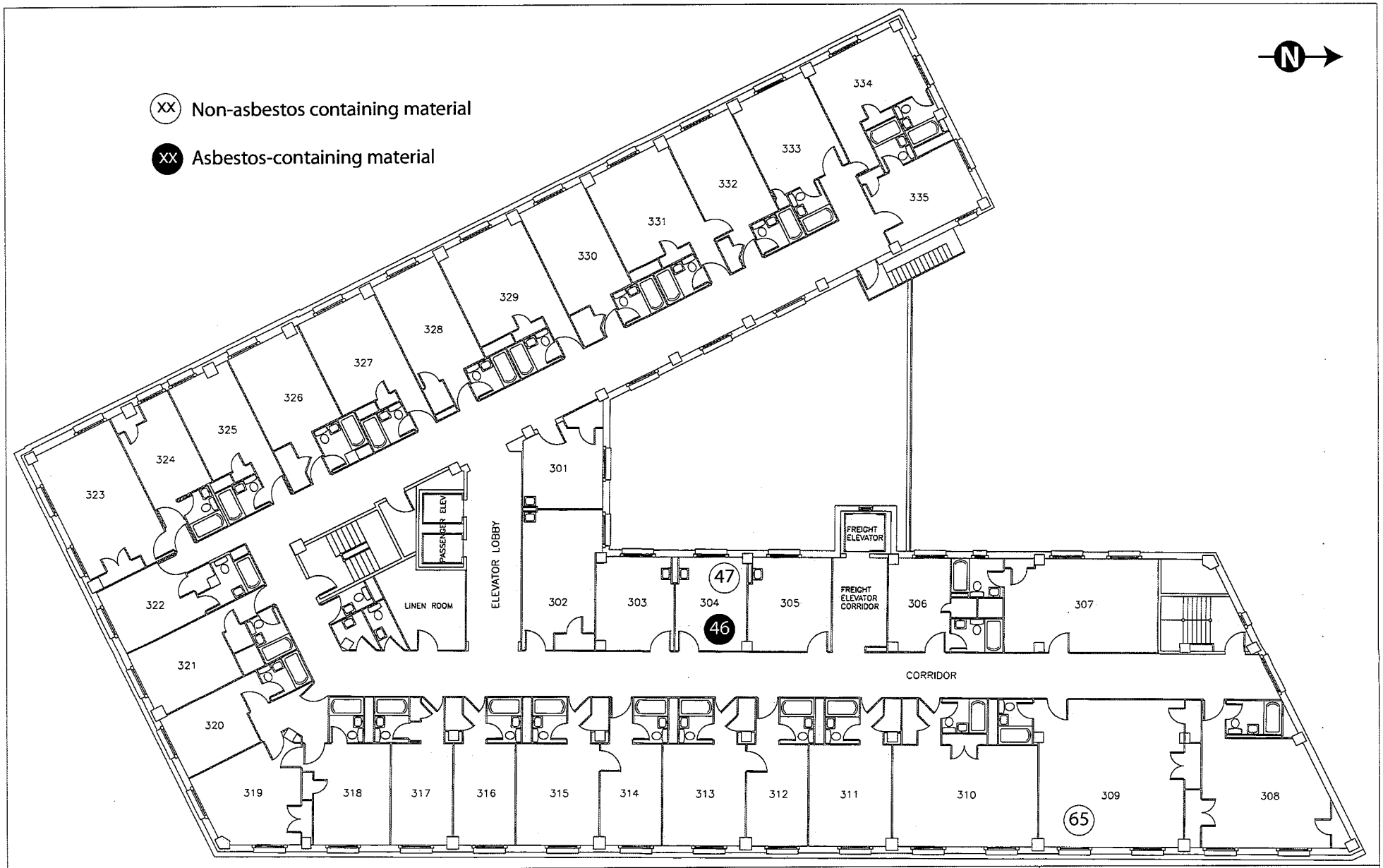
HOTEL GRIM 301 North State Line Avenue Texarkana, Texas 75501	**Asbestos Sample Location** **Fourth Floor**	HEC Project # T15147 March 30, 2015	HEC Environmental Group, Inc. 409 Hazel Texarkana, AR 71854 870-772-4700



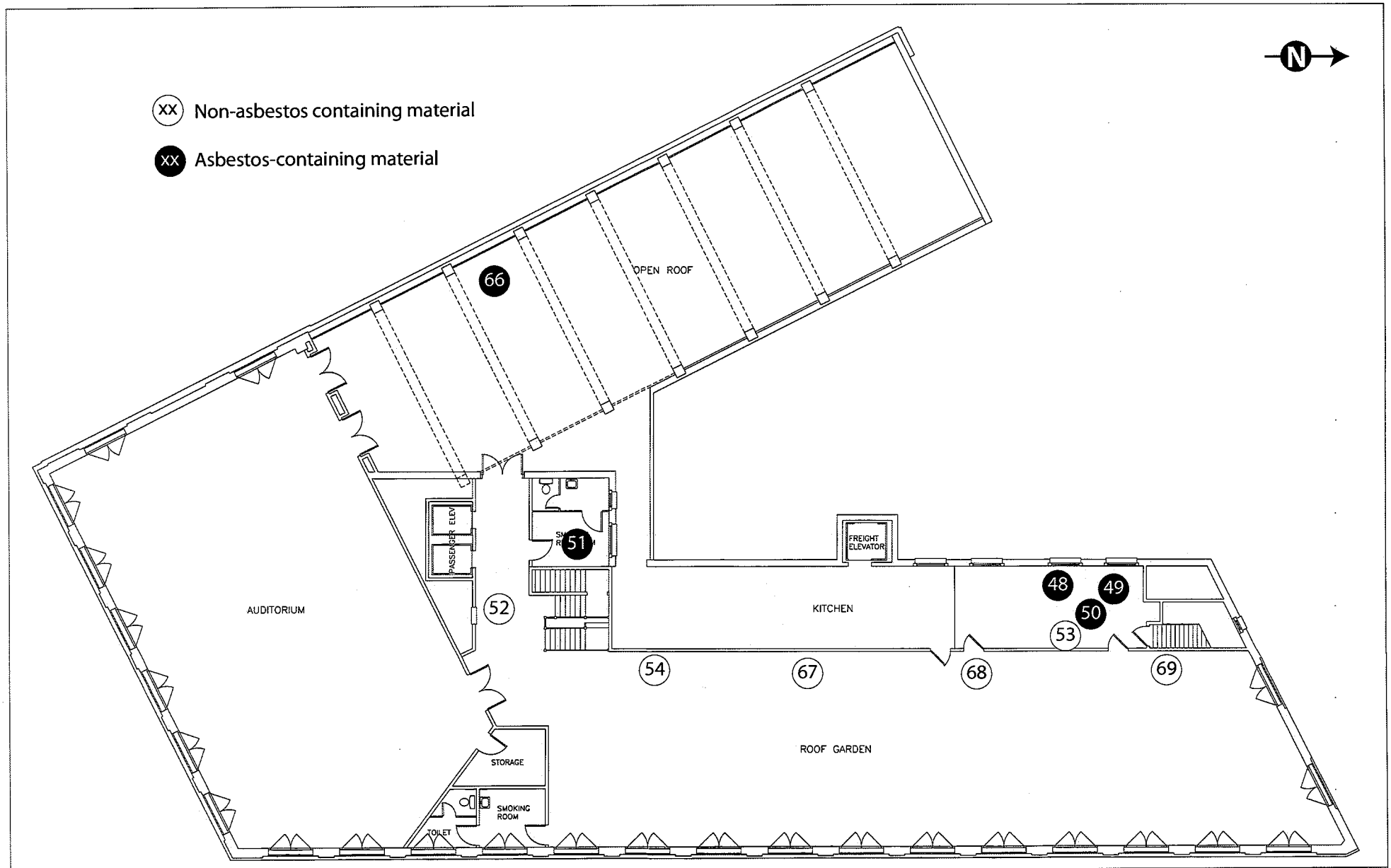
HOTEL GRIM 301 North State Line Avenue Texarkana, Texas 75501	**Asbestos Sample Location** **Fifth Floor**	HEC Project # T15147 March 30, 2015	HEC Environmental Group, Inc. 409 Hazel Texarkana, AR 71854 870-772-4700



HOTEL GRIM 301 North State Line Avenue Texarkana, Texas 75501	**Asbestos Sample Location** **Sixth Floor**	HEC Project # T15147 March 30, 2015	HEC Environmental Group, Inc. 409 Hazel Texarkana, AR 71854 870-772-4700



HOTEL GRIM 301 North State Line Avenue Texarkana, Texas 75501	**Asbestos Sample Location** **Seventh Floor**	HEC Project # T15147 March 30, 2015	HEC Environmental Group, Inc. 409 Hazel Texarkana, AR 71854 870-772-4700



HOTEL GRIM 301 North State Line Avenue Texarkana, Texas 75501	**Asbestos Sample Location** **Eighth Floor**	HEC Project # T15147 March 30, 2015	HEC Environmental Group, Inc. 409 Hazel Texarkana, AR 71854 870-772-4700

APPENDIX D

Lead Paint Survey Report

Lead Containing Paint Survey

Grim Hotel
301 North State Line Avenue
Texarkana, Texas 75501
EPA Region 6 Brownfields Community Wide Assessment
Petroleum Substance Grant
EPA Cooperative Agreement No. BF-00F19501-0

Project No. 35107140
May 8, 2015

Prepared for:
City of Texarkana, Texas
Texarkana, Texas

Prepared by:
Terracon Consultants, Inc.
25809 Interstate 30 South
Bryant, Arkansas 72022
(501) 847-9292

Terracon

May 8, 2015

Daphnea Ryan
Dept. of Community Redevelopment and Grants
P.O. Box 1967
Texarkana, Texas 75504

Attn: Daphnea Ryan
P: 903.798.3977

Re: Lead Containing Paint Survey
Grim Hotel
301 North State Line Avenue
Texarkana, Texas
Terracon Project No. 35107140

Dear Ms. Ryan:

The purpose of this report is to present the results of a lead-containing paint (LCP) survey performed at the above reference site. We understand that this survey was requested due to the planned renovation of the structure.

This report describes the locations and types of painted or stained surfaces sampled and presents the analytical results from the samples collected and analyzed. **Based upon the analytical results lead based paint and lead containing painted surfaces are present on the interior of the site buildings.** Please refer to the attached report for details.

We appreciate the opportunity to perform these services for the City of Texarkana. Please feel free to contact either of the undersigned at (501) 847-9292 if you have questions or comments regarding the information provided in the report.

Sincerely,

Terracon

Merrick Rotenberry, P.G.
Project Manager

For

David Hopkins, P.G.
Office Manager

TABLE OF CONTENTS

Page No.

LIST OF APPENDICES

LEAD-CONTAINING PAINT SURVEY

Grim Hotel
301 North State Line Avenue
Texarkana, Texas

Terracon Project No. 35107140
May 8, 2015

1.0 INTRODUCTION

Terracon conducted a lead-containing paint (LCP) survey of the of the structures at the Grim Hotel building located at 301 North State Line Avenue in Texarkana, Texas. The survey was conducted as part of a United States Environmental Protection Agency, Region 6 (EPA) Brownfields Hazardous Substance Assessment Grant (EPA Region 6 Cooperative Agreement No. BF-00F19501-0). The survey was conducted in March 2015, and in accordance with Terracon's Task Order dated February 6, 2015.

The objective of this project is to determine the presence or absence of LCP surfaces. Material quantification was not a part of the scope of work for this project. We understand that the LCP survey was requested due to the impending renovation of the subject buildings.

2.0 BUILDING DESCRIPTION

The site is a 0.890-acre tract of land located at 301 North State Line Avenue in Texarkana, Bowie County, Texas. The south portion of the site is developed with an approximate 135,000 s.f. eight-story former hotel (Grim Hotel) with a basement. The northern portion of the site contains concrete building pads associated with former structures and a vacant lot enclosed by chain-link fencing. The hotel is boarded up and the site is currently vacant.

3.0 FIELD ACTIVITIES

Mr. Merrick Rotenberry performed the LCP survey and sampling on portions of the Grim Hotel Building on March 17, 2015. The LCP survey was conducted to meet informational needs to comply with Occupational Safety and Health Administration (OSHA) requirements for lead-in-air content during disturbance of the leaded materials. The survey was not designed to meet the requirements of the U. S. Department of Housing and Urban Development (HUD).

3.1 Visual Assessment

Building components were inspected and homogeneous areas of suspect LCP or stained LCP surfaces were visually identified and documented. A homogeneous area consists of surfaces which appear similar throughout in terms of color, substrate, and apparent date of application. Painted and/or stained surfaces were suspected of containing lead.

3.2 Physical Assessment

A physical assessment of each painted and/or stained surface was conducted to assess its condition. The painted and/or stained surfaces were assessed poor condition based on degrees of cracking, peeling or chipping.

3.3 Sample Collection

Based on results of the visual observation, chip samples were collected from painted or stained surfaces to determine lead content. The sampling was performed in accordance with standard sampling protocol established for the lead industry. Sample collection was performed with the intent of collecting all layers of a painted surface. This was accomplished by sampling down to the substrate. Upon collection, the samples were placed in sealable containers and labeled with unique sample numbers using an indelible marker.

Seven (7) lead paint samples were collected at the site. The location and description of the suspect LCP surfaces sampled are provided in Appendix A.

3.4 Sample Analysis

The suspect lead-containing paint chip samples were delivered under proper chain-of-custody to EMSL Laboratories of Cinnaminson, New Jersey for analysis by Atomic Absorption Spectroscopy, EPA Method 7000B.

4.0 REGULATORY OVERVIEW

Lead based paint is defined by the Environmental Protection Agency (EPA) as any paint that contains more than 5,000 milligrams per kilogram (mg/kg or ppm) or 0.5 percent lead by weight. The Occupational Safety and Health Administration (OSHA) regulation 29 CFR 1926.62 has established permissible limits for airborne lead concentrations in the workplace (29 CFR 1926.62, 1910.1025). Owners or employers conducting renovation or demolition activities which may disturb building materials containing lead (in any concentration) are required to protect their employees from airborne lead exposures in excess of the OSHA permissible exposure limit (PEL).

OSHA has established an "Action Level" for lead concentrations "in air" of 30 micrograms per cubic meter of air (µg/m^3) and a "Permissible Exposure Limit" for lead concentrations "in air" of 50 µg/m^3. At this time, OSHA has no established limits for lead content in bulk paint (non-airborne). Their interpretation on this issue is that any amount of lead may cause airborne concentrations above the established limits.

5.0 FINDINGS AND RECOMMENDATIONS

The analytical results indicate that five of the seven paint samples are considered lead based paint, including the following:

- Pink paint in lobby entrance
- Brown paint in lobby entrance and trim throughout hotel
- Green paint in south store rooms on first floor
- Blue in north portion of lobby
- White paint on plaster walls throughout hotel

These five samples contained lead at concentrations greater than 5,000 ppm. The remaining two samples contained lead concentrations below the 5,000 ppm standard for lead-based paint, but are considered lead-containing paint.

Therefore, if these materials are to be disturbed during the proposed renovation project, the following procedures should be implemented:

1. Care must be taken by the contractor to not exceed the OSHA established Action Level of 30 µg/m^3 during the renovation process that may impact the lead-containing painted materials. Detection of these levels can be accomplished by personal air monitoring. Continual wetting of the construction materials should be performed during any demolition activities and material clean-up process.

2. In addition, representative samples of lead-based waste generated during renovation activities should be tested to determine if the waste is hazardous. Waste will be considered hazardous if it contains leachable lead at concentrations greater than 5.0 mg/l, or at lower concentrations as provided by applicable federal, state, or local regulations. Waste sampling and disposal shall be conducted in accordance with applicable federal, state, and local regulations.

6.0 GENERAL COMMENTS

The results, findings, conclusions and recommendations expressed in this report are based on conditions observed during our survey of the buildings. The information contained in this report is relevant to the date on which this inspection was performed, and should not be relied upon to

represent conditions at a later date. This report has been prepared on behalf of and exclusively for use by Client for specific application to their potential projects, as discussed. This report is not a bidding document. Any contractor or consultant reviewing this report must draw their own conclusions regarding further investigation or remediation deemed necessary. Terracon does not warrant the work of regulatory agencies, laboratories or other third parties supplying information, which may have been used in the preparation of this report.

APPENDIX A

LEAD-CONTAINING PAINT SAMPLE SUMMARY SHEET

LEAD-CONTAINING PAINT SAMPLE SUMMARY
GRIM HOTEL
301 NORTH STATE LINE AVENUE
TEXARKANA, TEXAS
May 8, 2015

Sample No.	Paint Color	Paint Substrate	Material Location	Surface Condition	Analytical Result (Concentration - ppm)
LBP-1	Pink	Wood	Column and walls – Lobby Entrance	Poor	**160,000**
LBP-2	Brown	Wood	Column base trim – Lobby Entrance	Poor	**13,000**
LBP-3	Green	Wood	Support Pillars – South Side Rooms	Poor	**5,100**
LBP-4	Blue	Plaster	Support Pillars – North Portion Of Lobby	Poor	**48,000**
LBP-5	White	Plaster	Walls throughout	Poor	**66,000**
LBP-6	Pink	Plaster	Walls throughout	Poor	1,900
LBP-7	Teal	Plaster	Three room walls – 3rd Floor	Poor	4,600

Sample Results in **bold** are Considered Lead Based Paint

APPENDIX B

LEAD-CONTAINING PAINT ANALYTICAL LABORATORY DATA

EMSL Analytical, Inc.
200 Route 130 North, Cinnaminson, NJ 08077
Phone/Fax: (856) 303-2500 / (856) 786-5974
http://www.EMSL.com cinnaminsonleadlab@emsl.com

EMSL Order:	201503236
CustomerID:	TERC25
CustomerPO:	
ProjectID:	

Attn: **Merrick Rotenberry**
Terracon Consultants, Inc.
25809 I-30 South
Bryant, AR 72022

Phone:	(501) 847-9292
Fax:	(501) 847-9210
Received:	03/20/15 10:05 AM
Collected:	3/17/2015

Project: **35107140**

Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B/7000B)*

Client Sample Description	*Lab ID*	*Collected*	*Analyzed*	*Lead Concentration*
LBP-1	*201503236-0001*	3/17/2015	3/21/2015	160000 ppm
	Site: Pink in Lobby			
LBP-2	*201503236-0002*	3/17/2015	3/21/2015	13000 ppm
	Site: Brown in Lobby			
LBP-3	*201503236-0003*	3/17/2015	3/21/2015	5100 ppm
	Site: Green-South Store Room			
LBP-4	*201503236-0004*	3/17/2015	3/21/2015	48000 ppm
	Site: Blue lobby & throughout			
LBP-5	*201503236-0005*	3/17/2015	3/21/2015	66000 ppm
	Site: White throughout			
LBP-6	*201503236-0006*	3/17/2015	3/21/2015	1900 ppm
	Site: Pink throughout			
LBP-7	*201503236-0007*	3/17/2015	3/21/2015	4600 ppm
	Site: Teal 3rd Floor			

Julie Smith - Laboratory Director
NJ-NELAP Accredited:03036
or other approved signatory

*Analysis following Lead in Paint by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 0.010 % wt based on the minimum sample weight per our SOP. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities. Samples received in good condition unless otherwise noted. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NELAP Certifications: NJ 03036, NY 10872, PA 68-00367, AIHA-LAP, LLC ELLAP 100194, A2LA 2845.01

Initial report from 03/24/2015 11:31:24

OrderID: 201503236

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Lead (Pb) Chain of Custody

EMSL Order ID *(Lab Use Only)*: 201503236

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 786-5974

Company : Terracon	**EMSL-Bill to:** ☐ Same ☐ Different If Bill to is Different note instructions in Comments** *Third Party Billing requires written authorization from third party*
Street: 25809 I-30	
City: Bryant **State/Province:** AR	**Zip/Postal Code:** **Country:**
Report To (Name): Merrick Rotenberry	**Telephone #:**
Email Address: mlrotenberry@terracon.com	**Fax #:** **Purchase Order:**
Project Name/Number: 35107140	**Please Provide Results:** ☐ Fax ☑ Email
U.S. State Samples Taken: ~~AR~~ TX	**CT Samples:** ☐ Commercial/Taxable ☐ Residential/Tax Exempt

Turnaround Time (TAT) Options* - Please Check

☐ 3 Hour | ☐ 6 Hour | ☐ 24 Hour | ☐ 48 Hour | ☑ 72 Hour | ☐ 96 Hour | ☐ 1 Week | ☐ 2 Week

**Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide*

Matrix	Method	Instrument	Reporting Limit	Check
Chips ☐ % by wt. ☐ mg/cm² ☑ ppm	SW846-7000B	Flame Atomic Absorption	0.01%	☑
Air	NIOSH 7082	Flame Atomic Absorption	4 µg/filter	☐
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter	☐
	NIOSH 7300 modified	ICP-AES/ICP-MS	0.5 µg/filter	☐
Wipe* ASTM ☐ non ASTM ☐ *if no box is checked, non-ASTM Wipe is assumed	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	☐
	SW846-6010B or C	ICP-AES	1.0 µg/wipe	☐
	SW846-7000B/7010	Graphite Furnace AA	0.075 µg/wipe	☐
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	☐
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	☐
	SW846-7010	Graphite Furnace AA	0.3 mg/kg (ppm)	☐
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	☐
Wastewater Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200.7	ICP-AES	0.020 mg/L (ppm)	☐
Drinking Water Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	☐
TSP/SPM Filter	40 CFR Part 50	ICP-AES	12 µg/filter	☐
	40 CFR Part 50	Graphite Furnace AA	3.6 µg/filter	☐
Other:				☐

Name of Sampler: **Signature of Sampler:**

	Sample #	Location	Volume/Area	Date/Time Sampled
1	LBP-1	Pink in lobby		3-17-15 3:00
2	LBP-2	Brown in lobby		3:10
3	LBP-3	Green south storeroom		3:15
4	LBP-4	Blue lobby + throught		3:20
5	LBP-5	White throughout		3:30

Client Sample #'s **Total # of Samples:**

Relinquished (Client):	MS Patty	**Date:** 3-19-15		**Time:**	
Received (Lab):	[illegible]	**Date:**	3/20/15	**Time:**	1005 L to

Comments:

Controlled Document — Lead (Pb) COC — R3

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

LEAD (Pb) CHAIN OF CUSTODY

EMSL ORDER ID *(Lab Use Only)*: 201503236

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX. (856) 786-5974

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Location	Volume/Area	Date/Time Sampled
LBP-6	Pink throughout		3-17-15 3:40
LBP-7	Teal 3rd Floor		" 3:50

Comments/Special Instructions:

APPENDIX E

Daily Field Logs

DAILY PROJECT FIELD RECORD

DATE: 03/12/2015 **WEATHER CONDITIONS:** Raining, 50°F

PROJECT: Grim Hotel Phase II ESA **PROJECT NUMBER:** 35107740

LOCATION: Texarkana, TX **GEC REP:** Lea Nordorf

Contractor Personnel on Site:	Contractor Equipment on Site:
⇒ Sunbelt Drilling	⇒ CME 75
⇒ Juan, Pedro, Alfredo	⇒ 7.25" OD Hollow Stem Auger
⇒	⇒
⇒	⇒
⇒	⇒
⇒	⇒
⇒	⇒

TIME	NOTES
11:00	Arrive onsite.
11:05	Health and Safety meeting.
11:30	Setting up rig on B-2/MW-2 Well Construction - 10' of 2" PVC 0.010" slotted screen with 4" bottom cap - 15' of riser - 16/30 sand to approximately 13' - Bentonite plug to near ground surface.
11:40	Observe soil samples. Drill through 6" bgs of concrete. At 1' bgs, red brick pieces observed. No odors detected.
11:45	Collect B-2 (1-2')
12:10	Collect B-2 (16-17') PID readings <1.0 ppm
12:40	TD @ approximately 25' bgs
12:50	Setting up rig on B-4/MW-4 Well Construction - 10' of 2" PVC 0.010" slotted screen with 4" bottom cap - 15' of riser - 16/30 sand to approximately 13' - Bentonite plug to near ground surface.

Note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end of each day and should be maintained with the Project Records.

DAILY PROJECT FIELD RECORD

DATE: 03/12/2015 **WEATHER CONDITIONS:** Raining, 50°F

PROJECT: Grim Hotel Phase II ESA **PROJECT NUMBER:** 35107140

LOCATION: Texarkana, TX **GEC REP:** Lea Nordorf

Contractor Personnel on Site:	Contractor Equipment on Site:
⇒	⇒
⇒	⇒
⇒	⇒
⇒	⇒
⇒	⇒
⇒	⇒
⇒	⇒

TIME	NOTES
12:55	Drill through 6" bgs of concrete. No odors detected Collect B-4 (1-2') Collect B-4 (8-9') PID readings <1.0 ppm
1:15	
1:55	TD @ approximately 25' bgs
2:10	Setting up rig on B-3/MW-3 Well Construction - 10' of 2" PVC 0.010" slotted screen with 4" bottom cap - 15' of riser - 16/30 sand to approximately 13' - Bentonite plug to near ground surface.
2:20	Drill through 6" bgs of concrete. No odors detected. 2:30 Collect B-3 (1-2') 2:40 collect B-3 (12-13')
2:45	TD @ approximately 25' bgs
3:30	Collect 2 Rinsate, 1 samples from splitspoon.
3:35	Drillers Collecting equipment
4:00	off site.

Note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end of each day and should be maintained with the Project Records.

DAILY PROJECT FIELD RECORD

DATE: 03/13/2015 **WEATHER CONDITIONS:** Raining, 50°F

PROJECT: Grim Hotel Phase II ESA **PROJECT NUMBER:** 35107140

LOCATION: Texarkana, TX **GEC REP:** Lea Nordorf

Contractor Personnel on Site:	Contractor Equipment on Site:
⇒ Merrick Rotenberry	⇒ CME 75
⇒	⇒ 7.25" OD Hollow Stem Auger
⇒ Lea Nordorf	⇒
⇒	⇒
⇒ Sunbelt drilling	⇒
⇒	⇒
⇒	⇒

TIME **NOTES**

8:00 Arrived on-site.

8:15 Setting up rig on B-1/MW-1
Well Construction
- 10' of 2" PVC 0.010" slotted screen with 4" bottom cap
- 15' of riser
- 16/30 sand to approximately 13'
- Bentonite plug to near ground surface.

8:25 Drill through 6" bgs of concrete. No odors detected.
8:30 Collect B-1 (1-2')
9:00 Collect duplicate B-11 (12-13')
Collect B-1 (12-13')
PID readings <1.0 ppm

9:30 TD @ approximately 25' bgs
10:40 Collect Rinsate 2 samples from split spoon.
6 55-gallon drums of soil - marked
1 55-gallon drum GW - marked

10:00 Drillers off-site. Begin measuring fluid levels & well development

Station	TD	DTW	Comments
MW-1	23.80'	11.46'	Turbid, no color, bailed 9 gallons
MW-2	24.17'	13.06'	
MW-3	24.20'	13.18'	
MW-4	24.05'	13.10'	- Developed using new bailers

11:30 All wells purged & covered off-site.

Note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end of each day and should be maintained with the Project Records.

DAILY PROJECT FIELD RECORD

DATE: 03/17/2015 **WEATHER CONDITIONS:** Sunny, 75°F

PROJECT: Grim Hotel Phase II ESA **PROJECT NUMBER:** 35107140

LOCATION: Texarkana, TX **GEC REP:** Lea Nondorf

Contractor Personnel on Site:	Contractor Equipment on Site:
⇒ Merrick Rotenberry	⇒
⇒	⇒
⇒ Lea Nondorf	⇒
⇒	⇒
⇒	⇒
⇒	⇒
⇒	⇒

TIME **NOTES**

11:00 Arrive on site.

11:10 Remove well caps and begin purging and sampling wells

Time	Station	TD	DTW	5 Vols	Comments
1:00	MW-1	23.80'	12.19'	5.81 gal	Turbide, no odor
12:00	MW-2	24.17'	13.54'	5.32 gal	↓
12:45	MW-3	24.20'	13.97'	5.12 gal	↓
12:20	MW-4	24.05'	13.94'	5.06 gal	↓

Developed using new bailers

2:00 Survey wells

Station	Reading	Elevation	Notes
BM	+5.03'	--	Manhole Cover NE Alley + 105.03'
MW-1	-6.90	98.13'	
MW-2	-6.36	98.67'	
MW-3	-5.96	99.07'	
MW-4	-5.63	99.40'	

3:00 All wells covered. Off site.

Note: Copies of all completed "Project Field Record Forms" are to be submitted to the Project Manager at the end of each day and should be maintained with the Project Records.

APPENDIX F

Soil Boring Logs

Terracon
Consulting Engineers and Scientists
25809 Interstate 30 South BRYANT, AR. 72022
PH. (501) 847-9292 FAX. (501) 847-9210

FIELD BORING LOG

BORING NO.: B-1/MW-1 PAGE: 1 of 1

TOTAL DEPTH: 25 FEET BELOW GROUND SURFACE (BGS)

CLIENT: CITY OF TEXARKANA, TEXAS	PROJECT: GRIM HOTEL - PHASE II ESA
JOB NO.: 232-012-35107140-004	DRILLING CO.: SUNBELT INDUSTRIAL
LOGGED BY: LEA NONDORF	DRILLER: ALFREDO ZUNGEO
DATE DRILLED: 3/13/2015	RIG TYPE: CME 75

DRILLING METHOD: 7.25" O.D. HOLLOW STEM AUGER

SAMPLING METHOD: 5' CONTINUOUS BARREL SAMPLER

N: N/A E: N/A G.S. ELEV.: N/A

Depth BGS	Sample Interval	DESCRIPTION	Litho. Symbol	P.I.D. (ppm)	Comments
0		0"-6" Concrete			
		6"-25' SILTY CLAY orange, very fine grained, no odor, dry		2'-3' <1 4'-5' <1 6'-7' 2.6 8'-9' <1	
10		red, mottled, very fine grained, no odor, dry		10'-11' <1 12'-13' <1 14'-15' <1	
15		moist		16'-17' <1 18'-19' <1	Water at 18' bgs
20				20'-21' <1 22'-23' <1 24'-25' <1	
25		Total Depth of Boring at 25' bgs			
30					

Terracon
Consulting Engineers and Scientists
25809 Interstate 30 South BRYANT, AR. 72022
PH. (501) 847-9292 FAX. (501) 847-9210

FIELD BORING LOG

BORING NO.: B-2/MW-2 PAGE: 1 of 1

TOTAL DEPTH: 25 FEET BELOW GROUND SURFACE (BGS)

CLIENT: CITY OF TEXARKANA, TEXAS	PROJECT: GRIM HOTEL - PHASE II ESA
JOB NO.: 232-012-35107140-005	DRILLING CO.: SUNBELT INDUSTRIAL
LOGGED BY: LEA NONDORF	DRILLER: ALFREDO ZUNGEO
DATE DRILLED: 3/12/2015	RIG TYPE: CME 75

DRILLING METHOD: 7.25" O.D. HOLLOW STEM AUGER

SAMPLING METHOD: 5' CONTINUOUS BARREL SAMPLER

N: N/A E: N/A G.S. ELEV.: N/A

Depth BGS	Sample Interval	DESCRIPTION	Litho. Symbol	P.I.D. (ppm)	Comments
0		0"-6" Concrete			
		6"-5' SILTY CLAY dark brown, red brick present in upper 1', no odor, dry, fine grained		2'-3' <1	
		orange, very fine grained, no odor, dry		4'-5' <1	
5		5'-9' CLAYEY SAND red, mottled, silty, no odor, fine grained, dry		6'-7' 2.6 8'-9' <1	
10		9'-25' SILTY SAND red, mottled, some clay, moist, fine grained, no odor		10'-11' <1 12'-13' <1 14'-15' <1	
15		▽		16'-17' <1	Water at 17' bgs
				18'-19' <1 20'-21' <1 22'-23' <1 24'-25' <1	
20					
25		Total Depth of Boring at 25' bgs			
30					

Terracon
Consulting Engineers and Scientists
25809 Interstate 30 South BRYANT, AR. 72022
PH. (501) 847-9292 FAX. (501) 847-9210

FIELD BORING LOG

BORING NO.: B-3/MW-3 PAGE: 1 of 1

TOTAL DEPTH: 25 FEET BELOW GROUND SURFACE (BGS)

CLIENT: CITY OF TEXARKANA, TEXAS	PROJECT: GRIM HOTEL - PHASE II ESA
JOB NO.: 232-012-35107140-006	DRILLING CO.: SUNBELT INDUSTRIAL
LOGGED BY: LEA NONDORF	DRILLER: ALFREDO ZUNGEO
DATE DRILLED: 3/12/2015	RIG TYPE: CME 75

DRILLING METHOD: 7.25" O.D. HOLLOW STEM AUGER

SAMPLING METHOD: 5' CONTINUOUS BARREL SAMPLER

N: N/A E: N/A G.S. ELEV.: N/A

Depth BGS	Sample Interval	DESCRIPTION	Litho. Symbol	P.I.D. (ppm)	Comments
0		0"-6" Concrete			
		6"-5' SILTY CLAY orange, very fine-grained, no odor, dry		2'-3' <1 4'-5' <1	
5		5'-8' No recovery		6'-7' 2.6	
		8'-13' SILTY SAND red, fine-grained, some clay, no odor, dry		8'-9' <1 10'-11' <1 12'-13' <1	
10					
		13'-21' SILTY CLAY red, very fine-grained, no odor, dry		14'-15' <1 16'-17' <1	
15					
		tan, mottled, moist ▽		18'-19' <1 20'-21' <1	Water at 20' bgs
20					
		21'-25' SILTY SAND tan, mottled, fine-grained, no odor, saturated		22'-23' <1 24'-25' <1	
25		Total Depth of Boring at 25' bgs			
30					

Terracon
Consulting Engineers and Scientists
25809 Interstate 30 South BRYANT, AR. 72022
PH. (501) 847-9292 FAX. (501) 847-9210

FIELD BORING LOG

BORING NO.: B-4/MW-4 PAGE: 1 of 1

TOTAL DEPTH: 25 FEET BELOW GROUND SURFACE (BGS)

CLIENT: CITY OF TEXARKANA, TEXAS	PROJECT: GRIM HOTEL - PHASE II ESA
JOB NO.: 232-012-35107140-007	DRILLING CO.: SUNBELT INDUSTRIAL
LOGGED BY: LEA NONDORF	DRILLER: ALFREDO ZUNGEO
DATE DRILLED: 3/12/2015	RIG TYPE: CME 75

DRILLING METHOD: 7.25" O.D. HOLLOW STEM AUGER

SAMPLING METHOD: 5' CONTINUOUS BARREL SAMPLER

N: N/A E: N/A G.S. ELEV.: N/A

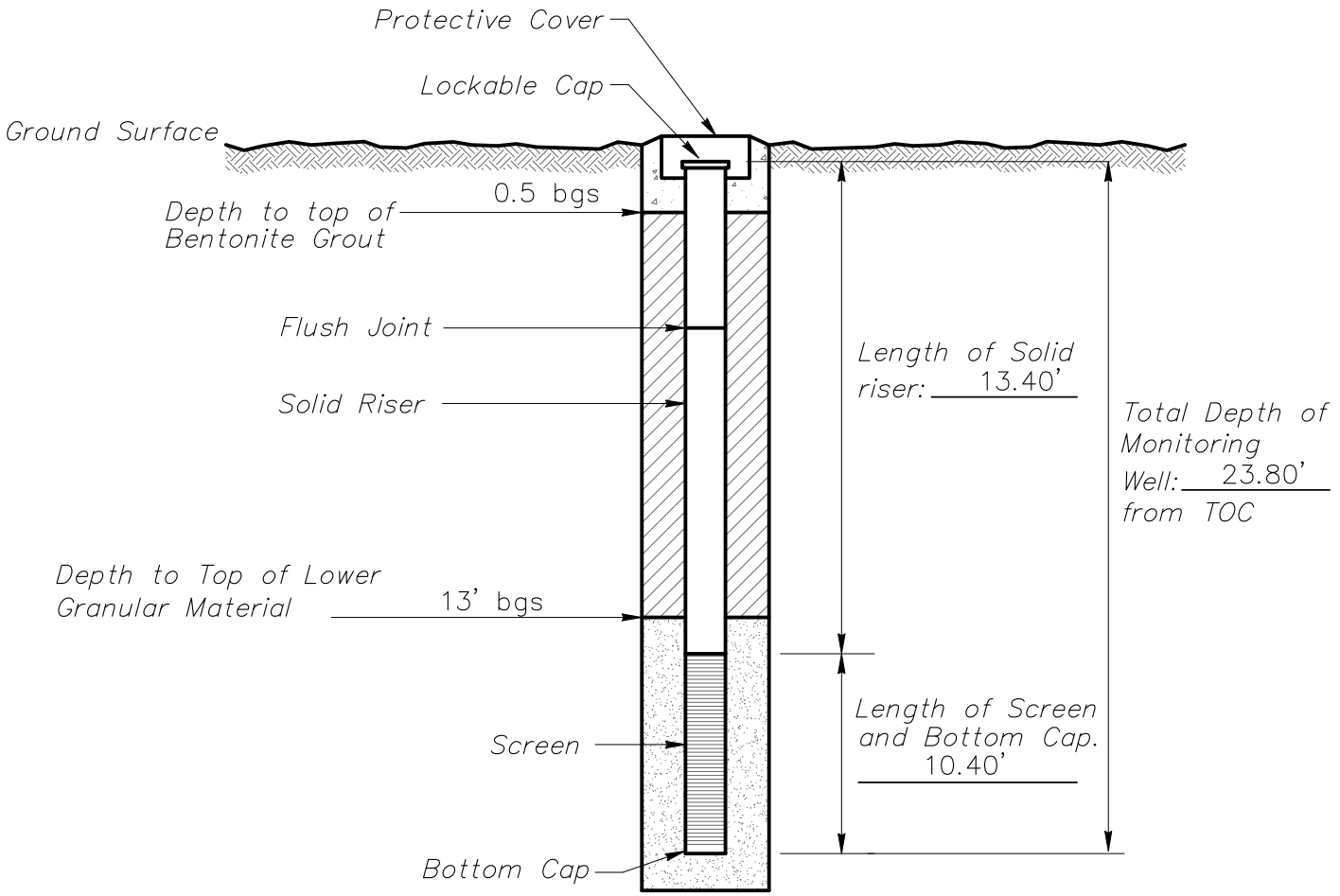
Depth BGS	Sample Interval	DESCRIPTION	Litho. Symbol	P.I.D. (ppm)	Comments
0		0"-6" Concrete			
		6"-9' SILTY CLAY dark gray to brown, fine-grained, no odor, dry		2'-3' <1	
		orange, very fine-grained, no odor, dry		4'-5' <1	
5				6'-7' 2.6	
				8'-9' <1	
		9'-15' SILTY SAND red, mottled, fine-grained, some clay, no odor, dry poor recovery from 10'-14' bgs		10'-11' <1	
				12'-13' <1	
10				14'-15' <1	
		15'-23' SANDY CLAY red, fine-grained, no odor, moist to saturated ▽		16'-17' <1	
				18'-19' <1	Water at 18' bgs
15				20'-21' <1	
				22'-23' <1	
20		23'-25' SILTY SAND tan, fine-grained, no odor, saturated		24'-25' <1	
		Total Depth of Boring at 25' bgs			
25					
30					

APPENDIX G

Groundwater Monitoring Well Construction Diagrams

MONITORING WELL INSTALLATION RECORD

Job Name GRIM HOTEL — Well Number MW-1
Job Number 35107140 — Installation Date 3/13/2015 — Location TEXARKANA, TX.
Datum Elevation 93.13' — Surface Elevation N/A
Datum for Water Level Measurement T.O.C.
Screen Diameter & Material 2" PVC — Slot Size 0.010"
Riser Diameter & Material 2" PVC — Borehole Diameter 7.25"
Granular Backfill Material 16-20 SAND — Terracon Representative LEA NONDORF
Drilling Method HOLLOW STEM AUGER — Drilling Contractor SUNBELT



Bentonite

Granular Backfill

(Not to Scale)

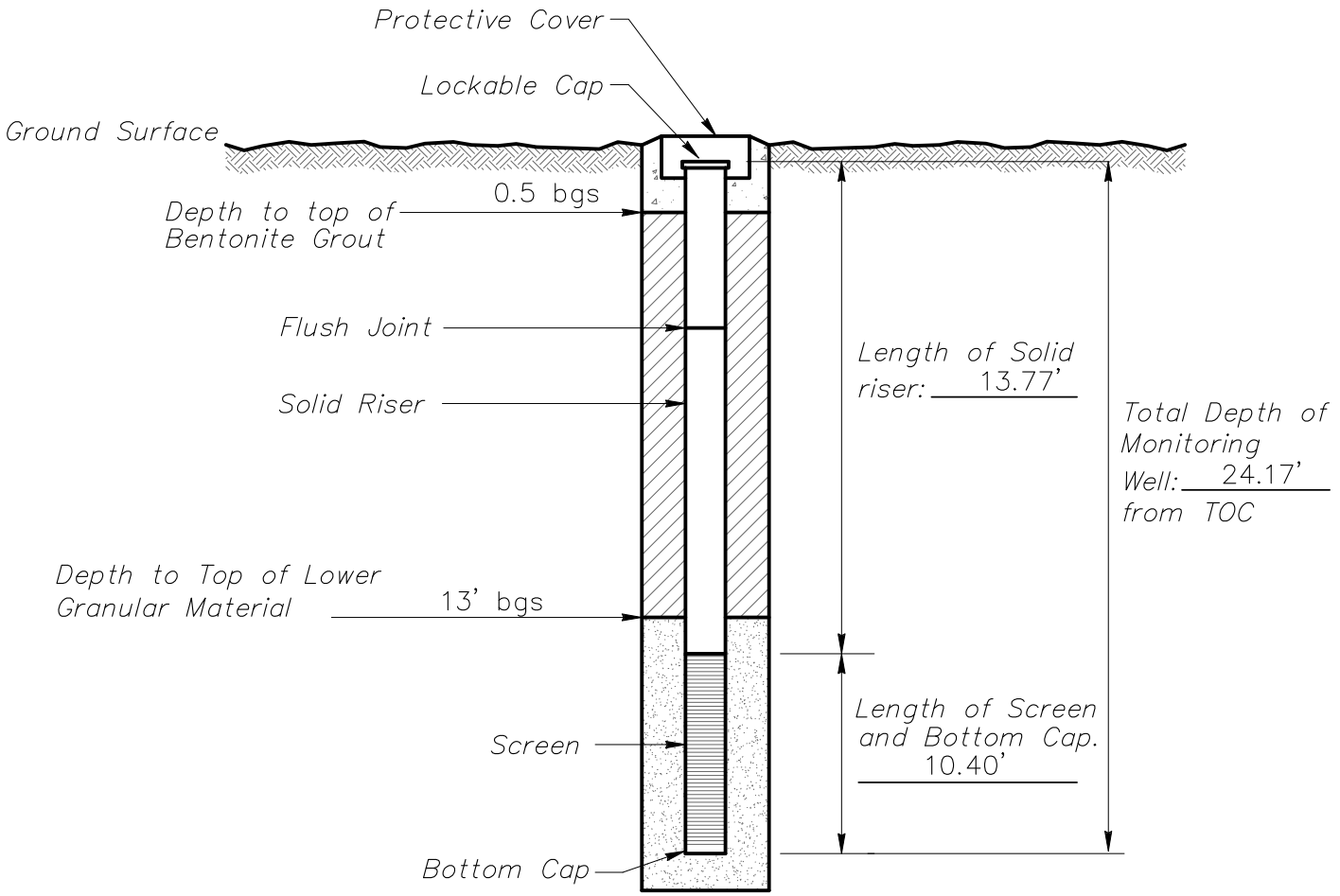
Terracon
Consulting Engineers and Scientists
25809 Interstate 30 South — BRYANT, AR. 72022
PH. (501) 847-9292 — FAX. (501) 847-9210

MONITORING WELL INSTALLATION RECORD

PROJECT NUMBER: 232-012-35107140
WELL NUMBER: MW-1
DRAWING NUMBER: 008 — CHECKED BY: MR

MONITORING WELL INSTALLATION RECORD

Job Name GRIM HOTEL | Well Number MW-2
Job Number 35107140 | Installation Date 3/12/2015 | Location TEXARKANA, TX.
Datum Elevation 98.67' | Surface Elevation N/A
Datum for Water Level Measurement T.O.C.
Screen Diameter & Material 2" PVC | Slot Size 0.010"
Riser Diameter & Material 2" PVC | Borehole Diameter 7.25"
Granular Backfill Material 16-20 SAND | Terracon Representative LEA NONDORF
Drilling Method HOLLOW STEM AUGER | Drilling Contractor SUNBELT



Bentonite

Granular Backfill

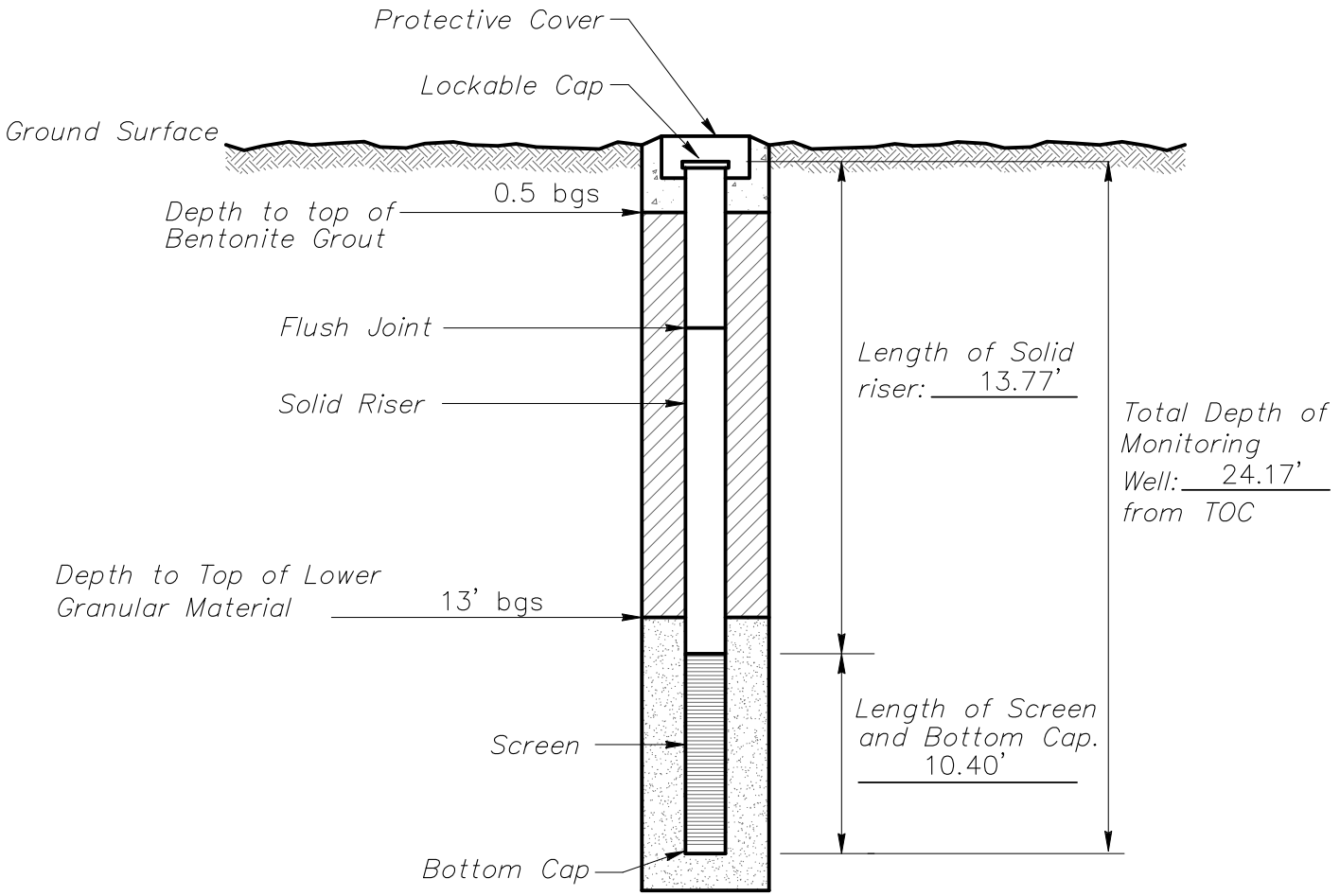
(Not to Scale)

Terracon
Consulting Engineers and Scientists
25809 Interstate 30 South BRYANT, AR. 72022
PH. (501) 847-9292 FAX. (501) 847-9210

MONITORING WELL INSTALLATION RECORD
PROJECT NUMBER: 232-012-35107140
WELL NUMBER: MW-2
DRAWING NUMBER: 009 CHECKED BY: MR

MONITORING WELL INSTALLATION RECORD

Job Name GRIM HOTEL | Well Number MW-3
Job Number 35107140 | Installation Date 3/12/2015 | Location TEXARKANA, TX.
Datum Elevation 99.07' | Surface Elevation N/A
Datum for Water Level Measurement T.O.C.
Screen Diameter & Material 2" PVC | Slot Size 0.010"
Riser Diameter & Material 2" PVC | Borehole Diameter 7.25"
Granular Backfill Material 16-20 SAND | Terracon Representative LEA NONDORF
Drilling Method HOLLOW STEM AUGER | Drilling Contractor SUNBELT



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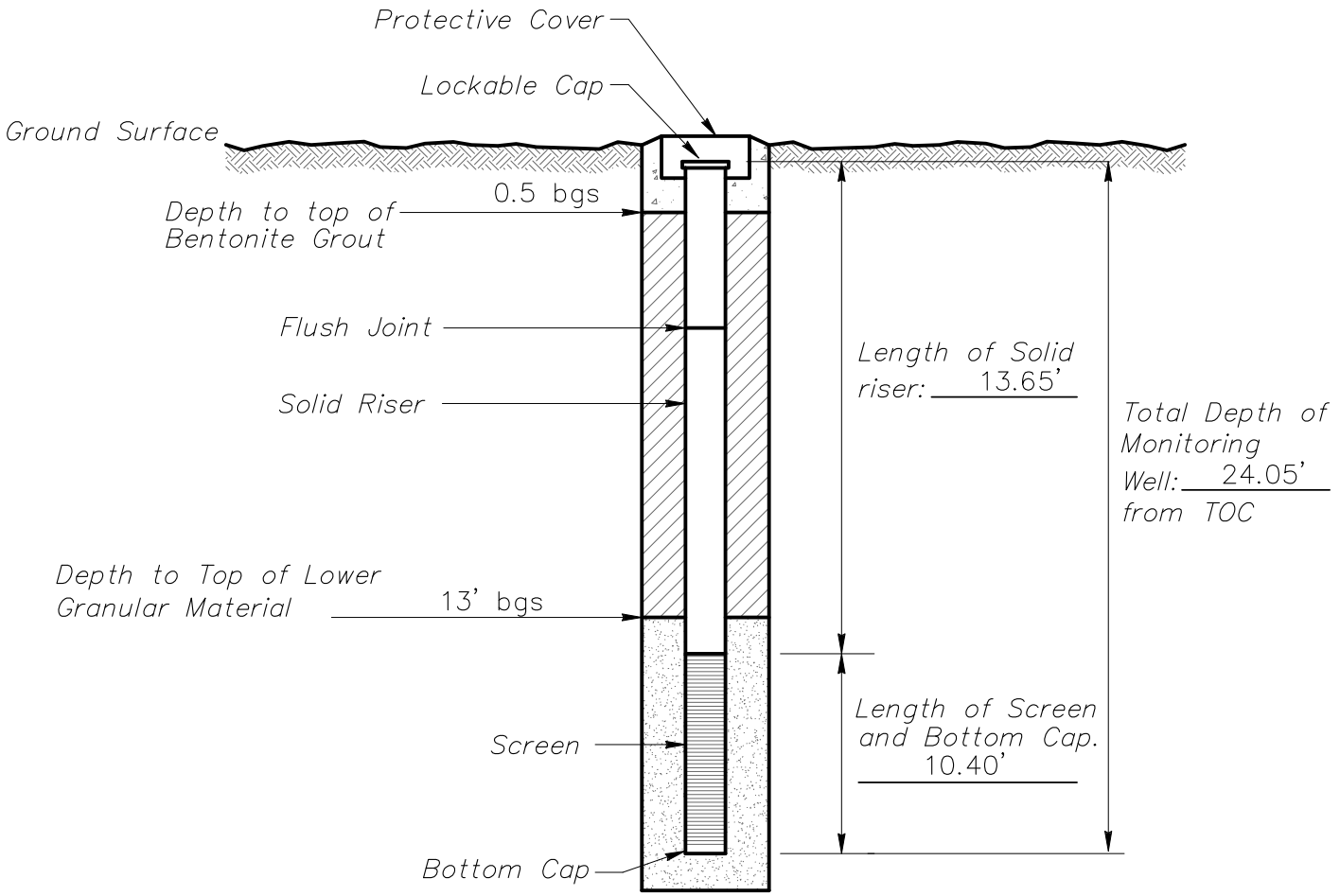
MONITORING WELL INSTALLATION RECORD

PROJECT NUMBER: 232-012-35107140
WELL NUMBER: MW-3
DRAWING NUMBER: 010 CHECKED BY: MR

MONITORING WELL INSTALLATION RECORD

Job Name GRIM HOTEL | Well Number MW-4
Job Number 35107140 | Installation Date 3/12/2015 | Location TEXARKANA, TX.
Datum Elevation 99.40' | Surface Elevation N/A
Datum for Water Level Measurement T.O.C.
Screen Diameter & Material 2" PVC | Slot Size 0.010"
Riser Diameter & Material 2" PVC | Borehole Diameter 7.25"
Granular Backfill Material 16-20 SAND | Terracon Representative LEA NONDORF
Drilling Method HOLLOW STEM AUGER | Drilling Contractor SUNBELT



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MONITORING WELL INSTALLATION RECORD
PROJECT NUMBER: 232-012-35107140
WELL NUMBER: MW-4
DRAWING NUMBER: 011 CHECKED BY: MR

APPENDIX H

Laboratory Reports

ANALYTICAL REPORT

March 30, 2015

Terracon- Little Rock, AR

Sample Delivery Group:	L754328
Samples Received:	03/18/2015
Project Number:	35107140
Description:	Grim Hotel - Texarkana, TX

Report To: Merrick Rotenberry
25809 I-30
Bryant, AR 72022

Entire Report Reviewed By:

Mark W. Beasley
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

TABLE OF CONTENTS

MW-2 L754328-01 GW

Collected by: Merrick Rotenberry | Collected date/time: 03/17/15 12:00 | Received date/time: 03/18/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Mercury by Method 7470A	WG776991	1	03/20/15 10:55	03/20/15 18:11	MPT
Metals (ICP) by Method 6010B	WG777374	1	03/24/15 08:48	03/24/15 14:06	ST
Metals (ICPMS) by Method 6020	WG777236	1	03/22/15 07:55	03/23/15 11:20	AB
Pesticides (GC) by Method 8081	WG776882	1	03/22/15 21:59	03/24/15 10:33	LKD
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG777169	1	03/22/15 16:21	03/23/15 06:33	ADF
Semi-Volatile Organic Compounds (GC) by Method 8151	WG776734	1	03/19/15 09:15	03/25/15 20:20	KLM
Semi-Volatile Organic Compounds (GC) by Method TX 1005	WG776748	1	03/19/15 14:33	03/19/15 21:33	CLG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG779024	1	03/26/15 12:24	03/26/15 12:24	MCB

MW-4 L754328-02 GW

Collected by: Merrick Rotenberry | Collected date/time: 03/17/15 12:20 | Received date/time: 03/18/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Mercury by Method 7470A	WG776991	1	03/20/15 10:55	03/20/15 18:17	MPT
Metals (ICP) by Method 6010B	WG777374	1	03/24/15 08:48	03/24/15 14:11	ST
Metals (ICPMS) by Method 6020	WG777236	1	03/22/15 07:55	03/23/15 11:22	AB
Pesticides (GC) by Method 8081	WG776882	1	03/22/15 21:59	03/24/15 10:45	LKD
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG776622	1	03/19/15 20:38	03/20/15 14:26	ADF
Semi-Volatile Organic Compounds (GC) by Method 8151	WG776734	1	03/19/15 09:15	03/25/15 20:33	KLM
Semi-Volatile Organic Compounds (GC) by Method TX 1005	WG776748	1	03/19/15 14:33	03/19/15 21:48	CLG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG779024	1	03/26/15 16:20	03/26/15 16:20	MCB

MW-3 L754328-03 GW

Collected by: Merrick Rotenberry | Collected date/time: 03/17/15 12:45 | Received date/time: 03/18/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Mercury by Method 7470A	WG776991	1	03/20/15 10:55	03/20/15 18:19	MPT
Metals (ICP) by Method 6010B	WG777374	1	03/24/15 08:48	03/24/15 14:15	ST
Metals (ICPMS) by Method 6020	WG777236	1	03/22/15 07:55	03/23/15 11:24	AB
Pesticides (GC) by Method 8081	WG776882	1	03/22/15 21:59	03/24/15 10:58	LKD
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG776622	1	03/19/15 20:38	03/20/15 14:54	ADF
Semi-Volatile Organic Compounds (GC) by Method 8151	WG776734	1	03/19/15 09:15	03/25/15 20:45	KLM
Semi-Volatile Organic Compounds (GC) by Method TX 1005	WG776748	1	03/19/15 14:33	03/19/15 22:03	CLG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG779024	1	03/26/15 16:40	03/26/15 16:40	MCB

MW-13 L754328-04 GW

Collected by: Merrick Rotenberry | Collected date/time: 03/17/15 12:45 | Received date/time: 03/18/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Mercury by Method 7470A	WG776991	1	03/20/15 10:55	03/20/15 18:22	MPT
Metals (ICP) by Method 6010B	WG777374	1	03/24/15 08:48	03/24/15 14:20	ST
Metals (ICPMS) by Method 6020	WG777236	1	03/22/15 07:55	03/23/15 11:26	AB
Pesticides (GC) by Method 8081	WG776882	1	03/22/15 21:59	03/24/15 11:10	LKD
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG776622	1	03/19/15 20:38	03/20/15 15:17	ADF
Semi-Volatile Organic Compounds (GC) by Method 8151	WG776734	1	03/19/15 09:15	03/25/15 20:57	KLM
Semi-Volatile Organic Compounds (GC) by Method TX 1005	WG776748	1	03/19/15 14:33	03/19/15 22:18	CLG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG777041	1	03/20/15 14:00	03/20/15 14:00	MCB

MW-1 L754328-05 GW

Collected by: Merrick Rotenberry | Collected date/time: 03/17/15 13:30 | Received date/time: 03/18/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Mercury by Method 7470A	WG776991	1	03/20/15 10:55	03/20/15 18:24	MPT

MW-1 L754328-05 GW

Collected by: Merrick Rotenberry
Collected date/time: 03/17/15 13:30
Received date/time: 03/18/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Metals (ICP) by Method 6010B	WG777374	1	03/24/15 08:48	03/24/15 14:25	ST
Metals (ICPMS) by Method 6020	WG777236	1	03/22/15 07:55	03/23/15 11:28	AB
Pesticides (GC) by Method 8081	WG776882	1	03/22/15 21:59	03/24/15 11:23	LKD
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG776622	1	03/19/15 20:38	03/20/15 15:41	ADF
Semi-Volatile Organic Compounds (GC) by Method 8151	WG776734	1	03/19/15 09:15	03/25/15 21:10	KLM
Semi-Volatile Organic Compounds (GC) by Method TX 1005	WG776748	1	03/19/15 14:33	03/19/15 22:34	CLG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG777041	1	03/20/15 14:24	03/20/15 14:24	MCB

RINSATE-2 L754328-06 GW

Collected by: Merrick Rotenberry
Collected date/time: 03/17/15 10:40
Received date/time: 03/18/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG777304	1	03/28/15 01:06	03/28/15 01:06	MCB

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Mark W. Beasley

Technical Service Representative

Project Narrative

L754328-01 8270: Low bias, as seen in WG QC, is also present in samples due to a concentrated internal standard used during processing. Data is flagged appropriately. ESC could not re-extract for these failures due to limited sample volume.

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Mercury	U		0.0490	0.200	1	03/20/2015 18:11	WG776991

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Barium	245		1.70	5.00	1	03/24/2015 14:06	WG777374
Cadmium	U		0.700	5.00	1	03/24/2015 14:06	WG777374
Chromium	9.07	J	1.40	10.0	1	03/24/2015 14:06	WG777374
Lead	63.8		1.90	5.00	1	03/24/2015 14:06	WG777374
Selenium	U		7.40	20.0	1	03/24/2015 14:06	WG777374
Silver	U		2.80	10.0	1	03/24/2015 14:06	WG777374

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Arsenic	1.19	J	0.250	2.00	1	03/23/2015 11:20	WG777236

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		10.0	50.0	1	03/26/2015 12:24	WG779024
Acrolein	U		8.90	50.0	1	03/26/2015 12:24	WG779024
Acrylonitrile	U		1.90	10.0	1	03/26/2015 12:24	WG779024
Benzene	U		0.330	1.00	1	03/26/2015 12:24	WG779024
Bromobenzene	U		0.350	1.00	1	03/26/2015 12:24	WG779024
Bromodichloromethane	U		0.380	1.00	1	03/26/2015 12:24	WG779024
Bromoform	U		0.470	1.00	1	03/26/2015 12:24	WG779024
Bromomethane	U		0.870	5.00	1	03/26/2015 12:24	WG779024
n-Butylbenzene	U		0.360	1.00	1	03/26/2015 12:24	WG779024
sec-Butylbenzene	U		0.360	1.00	1	03/26/2015 12:24	WG779024
tert-Butylbenzene	U		0.400	1.00	1	03/26/2015 12:24	WG779024
Carbon tetrachloride	U	J3	0.380	1.00	1	03/26/2015 12:24	WG779024
Chlorobenzene	U		0.350	1.00	1	03/26/2015 12:24	WG779024
Chlorodibromomethane	U		0.330	1.00	1	03/26/2015 12:24	WG779024
Chloroethane	U		0.450	5.00	1	03/26/2015 12:24	WG779024
2-Chloroethyl vinyl ether	U	J6	3.00	50.0	1	03/26/2015 12:24	WG779024
Chloroform	U		0.320	5.00	1	03/26/2015 12:24	WG779024
Chloromethane	U	J3	0.280	2.50	1	03/26/2015 12:24	WG779024
2-Chlorotoluene	U		0.380	1.00	1	03/26/2015 12:24	WG779024
4-Chlorotoluene	U		0.350	1.00	1	03/26/2015 12:24	WG779024
1,2-Dibromo-3-Chloropropane	U		1.30	5.00	1	03/26/2015 12:24	WG779024
1,2-Dibromoethane	U		0.380	1.00	1	03/26/2015 12:24	WG779024
Dibromomethane	U		0.350	1.00	1	03/26/2015 12:24	WG779024
1,2-Dichlorobenzene	U		0.350	1.00	1	03/26/2015 12:24	WG779024
1,3-Dichlorobenzene	U		0.220	1.00	1	03/26/2015 12:24	WG779024
1,4-Dichlorobenzene	U		0.270	1.00	1	03/26/2015 12:24	WG779024
Dichlorodifluoromethane	U	J3	0.550	5.00	1	03/26/2015 12:24	WG779024
1,1-Dichloroethane	U		0.260	1.00	1	03/26/2015 12:24	WG779024
1,2-Dichloroethane	U		0.360	1.00	1	03/26/2015 12:24	WG779024
1,1-Dichloroethene	U	J3	0.400	1.00	1	03/26/2015 12:24	WG779024
cis-1,2-Dichloroethene	U		0.260	1.00	1	03/26/2015 12:24	WG779024
trans-1,2-Dichloroethene	U		0.400	1.00	1	03/26/2015 12:24	WG779024
1,2-Dichloropropane	U		0.310	1.00	1	03/26/2015 12:24	WG779024
1,1-Dichloropropene	U	J3	0.350	1.00	1	03/26/2015 12:24	WG779024
1,3-Dichloropropane	U		0.370	1.00	1	03/26/2015 12:24	WG779024

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
cis-1,3-Dichloropropene	U		0.420	1.00	1	03/26/2015 12:24	WG779024
trans-1,3-Dichloropropene	U		0.420	1.00	1	03/26/2015 12:24	WG779024
2,2-Dichloropropane	U	J3	0.320	1.00	1	03/26/2015 12:24	WG779024
Di-isopropyl ether	U		0.320	1.00	1	03/26/2015 12:24	WG779024
Ethylbenzene	U		0.380	1.00	1	03/26/2015 12:24	WG779024
Hexachloro-1,3-butadiene	U		0.260	1.00	1	03/26/2015 12:24	WG779024
Isopropylbenzene	U		0.330	1.00	1	03/26/2015 12:24	WG779024
p-Isopropyltoluene	U		0.350	1.00	1	03/26/2015 12:24	WG779024
2-Butanone (MEK)	U		3.90	10.0	1	03/26/2015 12:24	WG779024
Methylene Chloride	U		1.00	5.00	1	03/26/2015 12:24	WG779024
4-Methyl-2-pentanone (MIBK)	U		2.10	10.0	1	03/26/2015 12:24	WG779024
Methyl tert-butyl ether	U		0.370	1.00	1	03/26/2015 12:24	WG779024
Naphthalene	U		1.00	5.00	1	03/26/2015 12:24	WG779024
n-Propylbenzene	U		0.350	1.00	1	03/26/2015 12:24	WG779024
Styrene	U		0.310	1.00	1	03/26/2015 12:24	WG779024
1,1,1,2-Tetrachloroethane	U		0.380	1.00	1	03/26/2015 12:24	WG779024
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	03/26/2015 12:24	WG779024
1,1,2-Trichlorotrifluoroethane	U		0.300	1.00	1	03/26/2015 12:24	WG779024
Tetrachloroethene	U		0.370	1.00	1	03/26/2015 12:24	WG779024
Toluene	U		0.780	5.00	1	03/26/2015 12:24	WG779024
1,2,3-Trichlorobenzene	U		0.230	1.00	1	03/26/2015 12:24	WG779024
1,2,4-Trichlorobenzene	U		0.360	1.00	1	03/26/2015 12:24	WG779024
1,1,1-Trichloroethane	U		0.319	1.00	1	03/26/2015 12:24	WG779024
1,1,2-Trichloroethane	U		0.380	1.00	1	03/26/2015 12:24	WG779024
Trichloroethene	U		0.400	1.00	1	03/26/2015 12:24	WG779024
Trichlorofluoromethane	U	J3	1.20	5.00	1	03/26/2015 12:24	WG779024
1,2,3-Trichloropropane	U		0.810	2.50	1	03/26/2015 12:24	WG779024
1,2,4-Trimethylbenzene	U		0.370	1.00	1	03/26/2015 12:24	WG779024
1,2,3-Trimethylbenzene	U		0.320	1.00	1	03/26/2015 12:24	WG779024
1,3,5-Trimethylbenzene	U		0.390	1.00	1	03/26/2015 12:24	WG779024
Vinyl chloride	U	J3	0.260	1.00	1	03/26/2015 12:24	WG779024
Xylenes, Total	U		1.10	3.00	1	03/26/2015 12:24	WG779024
(S) Toluene-d8	*108*			*88.5-111*		*03/26/2015 12:24*	WG779024
(S) Dibromofluoromethane	*97.9*			*78.3-121*		*03/26/2015 12:24*	WG779024
(S) 4-Bromofluorobenzene	*107*			*71.0-126*		*03/26/2015 12:24*	WG779024

Semi-Volatile Organic Compounds (GC) by Method TX 1005

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TPH C6 - C12	U		600	900	1	03/19/2015 21:33	WG776748
TPH C12 - C28	U		600	900	1	03/19/2015 21:33	WG776748
TPH C28 - C35	U		600	900	1	03/19/2015 21:33	WG776748
TPH C6 - C35	U		600	900	1	03/19/2015 21:33	WG776748
(S) o-Terphenyl	*93.0*			*70.0-130*		*03/19/2015 21:33*	WG776748

Semi-Volatile Organic Compounds (GC) by Method 8151

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
2,4-D	U		0.160	2.00	1	03/25/2015 20:20	WG776734
Dalapon	U		0.130	2.00	1	03/25/2015 20:20	WG776734
2,4-DB	U		0.190	2.00	1	03/25/2015 20:20	WG776734
Dicamba	U		0.200	2.00	1	03/25/2015 20:20	WG776734
Dichloroprop	U		0.400	2.00	1	03/25/2015 20:20	WG776734
Dinoseb	U		0.430	2.00	1	03/25/2015 20:20	WG776734
MCPA	U		50.0	100	1	03/25/2015 20:20	WG776734

Semi-Volatile Organic Compounds (GC) by Method 8151

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
MCPP	U		38.0	100	1	03/25/2015 20:20	WG776734
2,4,5-T	U		0.210	2.00	1	03/25/2015 20:20	WG776734
2,4,5-TP (Silvex)	U		0.270	2.00	1	03/25/2015 20:20	WG776734
(S) 2,4-Dichlorophenyl Acetic Acid	*74.6*			*28.2-146*		*03/25/2015 20:20*	WG776734

Pesticides (GC) by Method 8081

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Aldrin	U		0.00810	0.0500	1	03/24/2015 10:33	WG776882
Alpha BHC	U		0.0170	0.0500	1	03/24/2015 10:33	WG776882
Beta BHC	U		0.0180	0.0500	1	03/24/2015 10:33	WG776882
Delta BHC	U		0.0200	0.0500	1	03/24/2015 10:33	WG776882
Gamma BHC	U		0.0180	0.0500	1	03/24/2015 10:33	WG776882
Chlordane	U		0.0980	0.500	1	03/24/2015 10:33	WG776882
4,4-DDD	U		0.0170	0.0500	1	03/24/2015 10:33	WG776882
4,4-DDE	U		0.0160	0.0500	1	03/24/2015 10:33	WG776882
4,4-DDT	U		0.0180	0.0500	1	03/24/2015 10:33	WG776882
Dieldrin	U		0.00750	0.0500	1	03/24/2015 10:33	WG776882
Endosulfan I	U		0.0180	0.0500	1	03/24/2015 10:33	WG776882
Endosulfan II	U		0.0180	0.0500	1	03/24/2015 10:33	WG776882
Endosulfan sulfate	U		0.0200	0.0500	1	03/24/2015 10:33	WG776882
Endrin	U		0.0190	0.0500	1	03/24/2015 10:33	WG776882
Endrin aldehyde	U		0.0140	0.0500	1	03/24/2015 10:33	WG776882
Endrin ketone	U		0.0170	0.0500	1	03/24/2015 10:33	WG776882
Hexachlorobenzene	U		0.0130	0.0500	1	03/24/2015 10:33	WG776882
Heptachlor	U		0.0110	0.0500	1	03/24/2015 10:33	WG776882
Heptachlor epoxide	U		0.0180	0.0500	1	03/24/2015 10:33	WG776882
Methoxychlor	U		0.0190	0.0500	1	03/24/2015 10:33	WG776882
Toxaphene	U		0.170	0.500	1	03/24/2015 10:33	WG776882
(S) Decachlorobiphenyl	*35.6*			*10.0-156*		*03/24/2015 10:33*	WG776882
(S) Tetrachloro-m-xylene	*72.2*			*13.9-137*		*03/24/2015 10:33*	WG776882

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acenaphthene	U		0.320	1.00	1	03/23/2015 06:33	WG777169
Acenaphthylene	U		0.310	1.00	1	03/23/2015 06:33	WG777169
Anthracene	U		0.290	1.00	1	03/23/2015 06:33	WG777169
Benzidine	U		4.30	10.0	1	03/23/2015 06:33	WG777169
Benzo(a)anthracene	U	J4	0.110	1.00	1	03/23/2015 06:33	WG777169
Benzo(b)fluoranthene	U	J4	0.00210	1.00	1	03/23/2015 06:33	WG777169
Benzo(k)fluoranthene	U	J4	0.360	1.00	1	03/23/2015 06:33	WG777169
Benzo(g,h,i)perylene	U		0.00230	1.00	1	03/23/2015 06:33	WG777169
Benzo(a)pyrene	U		0.340	1.00	1	03/23/2015 06:33	WG777169
Bis(2-chlorethoxy)methane	U		0.330	10.0	1	03/23/2015 06:33	WG777169
Bis(2-chloroethyl)ether	U		1.60	10.0	1	03/23/2015 06:33	WG777169
Bis(2-chloroisopropyl)ether	U		0.440	10.0	1	03/23/2015 06:33	WG777169
4-Bromophenyl-phenylether	U		0.340	10.0	1	03/23/2015 06:33	WG777169
2-Chloronaphthalene	U		0.330	1.00	1	03/23/2015 06:33	WG777169
4-Chlorophenyl-phenylether	U		0.300	10.0	1	03/23/2015 06:33	WG777169
Chrysene	U	J4	0.330	1.00	1	03/23/2015 06:33	WG777169
Dibenz(a,h)anthracene	U		0.280	1.00	1	03/23/2015 06:33	WG777169
3,3-Dichlorobenzidine	U		2.00	10.0	1	03/23/2015 06:33	WG777169
2,4-Dinitrotoluene	U		1.60	10.0	1	03/23/2015 06:33	WG777169
2,6-Dinitrotoluene	U		0.280	10.0	1	03/23/2015 06:33	WG777169

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Fluoranthene	U		0.310	1.00	1	03/23/2015 06:33	WG777169
Fluorene	U		0.320	1.00	1	03/23/2015 06:33	WG777169
Hexachlorobenzene	U		0.340	1.00	1	03/23/2015 06:33	WG777169
Hexachloro-1,3-butadiene	U		0.330	10.0	1	03/23/2015 06:33	WG777169
Hexachlorocyclopentadiene	U		2.30	10.0	1	03/23/2015 06:33	WG777169
Hexachloroethane	U		0.360	10.0	1	03/23/2015 06:33	WG777169
Indeno(1,2,3-cd)pyrene	U		0.280	1.00	1	03/23/2015 06:33	WG777169
Isophorone	U		0.270	10.0	1	03/23/2015 06:33	WG777169
Naphthalene	U		0.370	1.00	1	03/23/2015 06:33	WG777169
Nitrobenzene	U		0.370	10.0	1	03/23/2015 06:33	WG777169
n-Nitrosodimethylamine	U		1.30	10.0	1	03/23/2015 06:33	WG777169
n-Nitrosodiphenylamine	U		0.300	10.0	1	03/23/2015 06:33	WG777169
n-Nitrosodi-n-propylamine	U		0.400	10.0	1	03/23/2015 06:33	WG777169
Phenanthrene	U	J4	0.370	1.00	1	03/23/2015 06:33	WG777169
Benzylbutyl phthalate	U		0.280	3.00	1	03/23/2015 06:33	WG777169
Bis(2-ethylhexyl)phthalate	0.770	J	0.710	3.00	1	03/23/2015 06:33	WG777169
Di-n-butyl phthalate	0.560	J	0.270	3.00	1	03/23/2015 06:33	WG777169
Diethyl phthalate	U		0.280	3.00	1	03/23/2015 06:33	WG777169
Dimethyl phthalate	U		0.280	3.00	1	03/23/2015 06:33	WG777169
Di-n-octyl phthalate	U		0.280	3.00	1	03/23/2015 06:33	WG777169
Pyrene	U	J4	0.330	1.00	1	03/23/2015 06:33	WG777169
1,2,4-Trichlorobenzene	U		0.360	10.0	1	03/23/2015 06:33	WG777169
4-Chloro-3-methylphenol	U		0.260	10.0	1	03/23/2015 06:33	WG777169
2-Chlorophenol	U		0.280	10.0	1	03/23/2015 06:33	WG777169
2,4-Dichlorophenol	U		0.280	10.0	1	03/23/2015 06:33	WG777169
2,4-Dimethylphenol	U		0.620	10.0	1	03/23/2015 06:33	WG777169
4,6-Dinitro-2-methylphenol	U		2.60	10.0	1	03/23/2015 06:33	WG777169
2,4-Dinitrophenol	U		3.20	10.0	1	03/23/2015 06:33	WG777169
2-Nitrophenol	U		0.320	10.0	1	03/23/2015 06:33	WG777169
4-Nitrophenol	U		2.00	10.0	1	03/23/2015 06:33	WG777169
Pentachlorophenol	U		0.310	10.0	1	03/23/2015 06:33	WG777169
Phenol	U		0.330	10.0	1	03/23/2015 06:33	WG777169
2,4,6-Trichlorophenol	U		0.300	10.0	1	03/23/2015 06:33	WG777169
(S) 2-Fluorophenol	*16.0*			*10.0-77.9*		*03/23/2015 06:33*	WG777169
(S) Phenol-d5	*9.61*			*5.00-70.1*		*03/23/2015 06:33*	WG777169
(S) Nitrobenzene-d5	*34.0*			*21.8-123*		*03/23/2015 06:33*	WG777169
(S) 2-Fluorobiphenyl	*40.1*			*29.5-131*		*03/23/2015 06:33*	WG777169
(S) 2,4,6-Tribromophenol	*46.4*			*11.2-130*		*03/23/2015 06:33*	WG777169
(S) p-Terphenyl-d14	*39.2*			*29.3-137*		*03/23/2015 06:33*	WG777169

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Mercury	0.0535	J	0.0490	0.200	1	03/20/2015 18:17	WG776991

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Barium	182		1.70	5.00	1	03/24/2015 14:11	WG777374
Cadmium	U		0.700	5.00	1	03/24/2015 14:11	WG777374
Chromium	25.3		1.40	10.0	1	03/24/2015 14:11	WG777374
Lead	65.6		1.90	5.00	1	03/24/2015 14:11	WG777374
Selenium	U		7.40	20.0	1	03/24/2015 14:11	WG777374
Silver	U		2.80	10.0	1	03/24/2015 14:11	WG777374

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Arsenic	0.757	J	0.250	2.00	1	03/23/2015 11:22	WG777236

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		10.0	50.0	1	03/26/2015 16:20	WG779024
Acrolein	U		8.90	50.0	1	03/26/2015 16:20	WG779024
Acrylonitrile	U		1.90	10.0	1	03/26/2015 16:20	WG779024
Benzene	U		0.330	1.00	1	03/26/2015 16:20	WG779024
Bromobenzene	U		0.350	1.00	1	03/26/2015 16:20	WG779024
Bromodichloromethane	U		0.380	1.00	1	03/26/2015 16:20	WG779024
Bromoform	U		0.470	1.00	1	03/26/2015 16:20	WG779024
Bromomethane	U		0.870	5.00	1	03/26/2015 16:20	WG779024
n-Butylbenzene	U		0.360	1.00	1	03/26/2015 16:20	WG779024
sec-Butylbenzene	U		0.360	1.00	1	03/26/2015 16:20	WG779024
tert-Butylbenzene	U		0.400	1.00	1	03/26/2015 16:20	WG779024
Carbon tetrachloride	U		0.380	1.00	1	03/26/2015 16:20	WG779024
Chlorobenzene	U		0.350	1.00	1	03/26/2015 16:20	WG779024
Chlorodibromomethane	U		0.330	1.00	1	03/26/2015 16:20	WG779024
Chloroethane	U		0.450	5.00	1	03/26/2015 16:20	WG779024
2-Chloroethyl vinyl ether	U		3.00	50.0	1	03/26/2015 16:20	WG779024
Chloroform	U		0.320	5.00	1	03/26/2015 16:20	WG779024
Chloromethane	U		0.280	2.50	1	03/26/2015 16:20	WG779024
2-Chlorotoluene	U		0.380	1.00	1	03/26/2015 16:20	WG779024
4-Chlorotoluene	U		0.350	1.00	1	03/26/2015 16:20	WG779024
1,2-Dibromo-3-Chloropropane	U		1.30	5.00	1	03/26/2015 16:20	WG779024
1,2-Dibromoethane	U		0.380	1.00	1	03/26/2015 16:20	WG779024
Dibromomethane	U		0.350	1.00	1	03/26/2015 16:20	WG779024
1,2-Dichlorobenzene	U		0.350	1.00	1	03/26/2015 16:20	WG779024
1,3-Dichlorobenzene	U		0.220	1.00	1	03/26/2015 16:20	WG779024
1,4-Dichlorobenzene	U		0.270	1.00	1	03/26/2015 16:20	WG779024
Dichlorodifluoromethane	U		0.550	5.00	1	03/26/2015 16:20	WG779024
1,1-Dichloroethane	U		0.260	1.00	1	03/26/2015 16:20	WG779024
1,2-Dichloroethane	U		0.360	1.00	1	03/26/2015 16:20	WG779024
1,1-Dichloroethene	U		0.400	1.00	1	03/26/2015 16:20	WG779024
cis-1,2-Dichloroethene	U		0.260	1.00	1	03/26/2015 16:20	WG779024
trans-1,2-Dichloroethene	U		0.400	1.00	1	03/26/2015 16:20	WG779024
1,2-Dichloropropane	U		0.310	1.00	1	03/26/2015 16:20	WG779024
1,1-Dichloropropene	U		0.350	1.00	1	03/26/2015 16:20	WG779024
1,3-Dichloropropane	U		0.370	1.00	1	03/26/2015 16:20	WG779024

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
cis-1,3-Dichloropropene	U		0.420	1.00	1	03/26/2015 16:20	WG779024
trans-1,3-Dichloropropene	U		0.420	1.00	1	03/26/2015 16:20	WG779024
2,2-Dichloropropane	U		0.320	1.00	1	03/26/2015 16:20	WG779024
Di-isopropyl ether	U		0.320	1.00	1	03/26/2015 16:20	WG779024
Ethylbenzene	U		0.380	1.00	1	03/26/2015 16:20	WG779024
Hexachloro-1,3-butadiene	U		0.260	1.00	1	03/26/2015 16:20	WG779024
Isopropylbenzene	U		0.330	1.00	1	03/26/2015 16:20	WG779024
p-Isopropyltoluene	U		0.350	1.00	1	03/26/2015 16:20	WG779024
2-Butanone (MEK)	U		3.90	10.0	1	03/26/2015 16:20	WG779024
Methylene Chloride	U		1.00	5.00	1	03/26/2015 16:20	WG779024
4-Methyl-2-pentanone (MIBK)	U		2.10	10.0	1	03/26/2015 16:20	WG779024
Methyl tert-butyl ether	U		0.370	1.00	1	03/26/2015 16:20	WG779024
Naphthalene	U		1.00	5.00	1	03/26/2015 16:20	WG779024
n-Propylbenzene	U		0.350	1.00	1	03/26/2015 16:20	WG779024
Styrene	U		0.310	1.00	1	03/26/2015 16:20	WG779024
1,1,1,2-Tetrachloroethane	U		0.380	1.00	1	03/26/2015 16:20	WG779024
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	03/26/2015 16:20	WG779024
1,1,2-Trichlorotrifluoroethane	U		0.300	1.00	1	03/26/2015 16:20	WG779024
Tetrachloroethene	U		0.370	1.00	1	03/26/2015 16:20	WG779024
Toluene	U		0.780	5.00	1	03/26/2015 16:20	WG779024
1,2,3-Trichlorobenzene	U		0.230	1.00	1	03/26/2015 16:20	WG779024
1,2,4-Trichlorobenzene	U		0.360	1.00	1	03/26/2015 16:20	WG779024
1,1,1-Trichloroethane	U		0.319	1.00	1	03/26/2015 16:20	WG779024
1,1,2-Trichloroethane	U		0.380	1.00	1	03/26/2015 16:20	WG779024
Trichloroethene	U		0.400	1.00	1	03/26/2015 16:20	WG779024
Trichlorofluoromethane	U		1.20	5.00	1	03/26/2015 16:20	WG779024
1,2,3-Trichloropropane	U		0.810	2.50	1	03/26/2015 16:20	WG779024
1,2,4-Trimethylbenzene	U		0.370	1.00	1	03/26/2015 16:20	WG779024
1,2,3-Trimethylbenzene	U		0.320	1.00	1	03/26/2015 16:20	WG779024
1,3,5-Trimethylbenzene	U		0.390	1.00	1	03/26/2015 16:20	WG779024
Vinyl chloride	U		0.260	1.00	1	03/26/2015 16:20	WG779024
Xylenes, Total	U		1.10	3.00	1	03/26/2015 16:20	WG779024
(S) Toluene-d8	*108*			*88.5-111*		*03/26/2015 16:20*	WG779024
(S) Dibromofluoromethane	*96.5*			*78.3-121*		*03/26/2015 16:20*	WG779024
(S) 4-Bromofluorobenzene	*98.1*			*71.0-126*		*03/26/2015 16:20*	WG779024

Semi-Volatile Organic Compounds (GC) by Method TX 1005

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TPH C6 - C12	U		600	900	1	03/19/2015 21:48	WG776748
TPH C12 - C28	U		600	900	1	03/19/2015 21:48	WG776748
TPH C28 - C35	U		600	900	1	03/19/2015 21:48	WG776748
TPH C6 - C35	U		600	900	1	03/19/2015 21:48	WG776748
(S) o-Terphenyl	*92.5*			*70.0-130*		*03/19/2015 21:48*	WG776748

Semi-Volatile Organic Compounds (GC) by Method 8151

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
2,4-D	U		0.160	2.00	1	03/25/2015 20:33	WG776734
Dalapon	U		0.130	2.00	1	03/25/2015 20:33	WG776734
2,4-DB	U		0.190	2.00	1	03/25/2015 20:33	WG776734
Dicamba	U		0.200	2.00	1	03/25/2015 20:33	WG776734
Dichloroprop	U		0.400	2.00	1	03/25/2015 20:33	WG776734
Dinoseb	U		0.430	2.00	1	03/25/2015 20:33	WG776734
MCPA	U		50.0	100	1	03/25/2015 20:33	WG776734

Semi-Volatile Organic Compounds (GC) by Method 8151

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
MCPP	U		38.0	100	1	03/25/2015 20:33	WG776734
2,4,5-T	U		0.210	2.00	1	03/25/2015 20:33	WG776734
2,4,5-TP (Silvex)	U		0.270	2.00	1	03/25/2015 20:33	WG776734
(S) 2,4-Dichlorophenyl Acetic Acid	*53.9*			*28.2-146*		*03/25/2015 20:33*	WG776734

Pesticides (GC) by Method 8081

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Aldrin	U		0.00810	0.0500	1	03/24/2015 10:45	WG776882
Alpha BHC	U		0.0170	0.0500	1	03/24/2015 10:45	WG776882
Beta BHC	U		0.0180	0.0500	1	03/24/2015 10:45	WG776882
Delta BHC	U		0.0200	0.0500	1	03/24/2015 10:45	WG776882
Gamma BHC	U		0.0180	0.0500	1	03/24/2015 10:45	WG776882
Chlordane	U		0.0980	0.500	1	03/24/2015 10:45	WG776882
4,4-DDD	U		0.0170	0.0500	1	03/24/2015 10:45	WG776882
4,4-DDE	U		0.0160	0.0500	1	03/24/2015 10:45	WG776882
4,4-DDT	U		0.0180	0.0500	1	03/24/2015 10:45	WG776882
Dieldrin	U		0.00750	0.0500	1	03/24/2015 10:45	WG776882
Endosulfan I	U		0.0180	0.0500	1	03/24/2015 10:45	WG776882
Endosulfan II	U		0.0180	0.0500	1	03/24/2015 10:45	WG776882
Endosulfan sulfate	U		0.0200	0.0500	1	03/24/2015 10:45	WG776882
Endrin	U		0.0190	0.0500	1	03/24/2015 10:45	WG776882
Endrin aldehyde	U		0.0140	0.0500	1	03/24/2015 10:45	WG776882
Endrin ketone	U		0.0170	0.0500	1	03/24/2015 10:45	WG776882
Hexachlorobenzene	U		0.0130	0.0500	1	03/24/2015 10:45	WG776882
Heptachlor	U		0.0110	0.0500	1	03/24/2015 10:45	WG776882
Heptachlor epoxide	U		0.0180	0.0500	1	03/24/2015 10:45	WG776882
Methoxychlor	U		0.0190	0.0500	1	03/24/2015 10:45	WG776882
Toxaphene	U		0.170	0.500	1	03/24/2015 10:45	WG776882
(S) Decachlorobiphenyl	*28.7*			*10.0-156*		*03/24/2015 10:45*	WG776882
(S) Tetrachloro-m-xylene	*71.4*			*13.9-137*		*03/24/2015 10:45*	WG776882

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acenaphthene	U		0.320	1.00	1	03/20/2015 14:26	WG776622
Acenaphthylene	U		0.310	1.00	1	03/20/2015 14:26	WG776622
Anthracene	U		0.290	1.00	1	03/20/2015 14:26	WG776622
Benzidine	U		4.30	10.0	1	03/20/2015 14:26	WG776622
Benzo(a)anthracene	U		0.00290	1.00	1	03/20/2015 14:26	WG776622
Benzo(b)fluoranthene	U		0.00210	1.00	1	03/20/2015 14:26	WG776622
Benzo(k)fluoranthene	U		0.360	1.00	1	03/20/2015 14:26	WG776622
Benzo(g,h,i)perylene	U		0.00230	1.00	1	03/20/2015 14:26	WG776622
Benzo(a)pyrene	U		0.340	1.00	1	03/20/2015 14:26	WG776622
Bis(2-chlorethoxy)methane	U		0.330	10.0	1	03/20/2015 14:26	WG776622
Bis(2-chloroethyl)ether	U		1.60	10.0	1	03/20/2015 14:26	WG776622
Bis(2-chloroisopropyl)ether	U		0.440	10.0	1	03/20/2015 14:26	WG776622
4-Bromophenyl-phenylether	U		0.340	10.0	1	03/20/2015 14:26	WG776622
2-Chloronaphthalene	U		0.330	1.00	1	03/20/2015 14:26	WG776622
4-Chlorophenyl-phenylether	U		0.300	10.0	1	03/20/2015 14:26	WG776622
Chrysene	U		0.330	1.00	1	03/20/2015 14:26	WG776622
Dibenz(a,h)anthracene	U		0.280	1.00	1	03/20/2015 14:26	WG776622
3,3-Dichlorobenzidine	U		2.00	10.0	1	03/20/2015 14:26	WG776622
2,4-Dinitrotoluene	U		1.60	10.0	1	03/20/2015 14:26	WG776622
2,6-Dinitrotoluene	U		0.280	10.0	1	03/20/2015 14:26	WG776622

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Fluoranthene	U		0.310	1.00	1	03/20/2015 14:26	WG776622
Fluorene	U		0.320	1.00	1	03/20/2015 14:26	WG776622
Hexachlorobenzene	U		0.340	1.00	1	03/20/2015 14:26	WG776622
Hexachloro-1,3-butadiene	U		0.330	10.0	1	03/20/2015 14:26	WG776622
Hexachlorocyclopentadiene	U		2.30	10.0	1	03/20/2015 14:26	WG776622
Hexachloroethane	U		0.360	10.0	1	03/20/2015 14:26	WG776622
Indeno(1,2,3-cd)pyrene	U		0.280	1.00	1	03/20/2015 14:26	WG776622
Isophorone	U		0.270	10.0	1	03/20/2015 14:26	WG776622
Naphthalene	U		0.370	1.00	1	03/20/2015 14:26	WG776622
Nitrobenzene	U		0.370	10.0	1	03/20/2015 14:26	WG776622
n-Nitrosodimethylamine	U		1.30	10.0	1	03/20/2015 14:26	WG776622
n-Nitrosodiphenylamine	U		0.300	10.0	1	03/20/2015 14:26	WG776622
n-Nitrosodi-n-propylamine	U		0.400	10.0	1	03/20/2015 14:26	WG776622
Phenanthrene	U		0.370	1.00	1	03/20/2015 14:26	WG776622
Benzylbutyl phthalate	U		0.280	3.00	1	03/20/2015 14:26	WG776622
Bis(2-ethylhexyl)phthalate	U		0.710	3.00	1	03/20/2015 14:26	WG776622
Di-n-butyl phthalate	0.321	J	0.270	3.00	1	03/20/2015 14:26	WG776622
Diethyl phthalate	U		0.280	3.00	1	03/20/2015 14:26	WG776622
Dimethyl phthalate	U		0.280	3.00	1	03/20/2015 14:26	WG776622
Di-n-octyl phthalate	U		0.280	3.00	1	03/20/2015 14:26	WG776622
Pyrene	U		0.330	1.00	1	03/20/2015 14:26	WG776622
1,2,4-Trichlorobenzene	U		0.360	10.0	1	03/20/2015 14:26	WG776622
4-Chloro-3-methylphenol	U		0.260	10.0	1	03/20/2015 14:26	WG776622
2-Chlorophenol	U		0.280	10.0	1	03/20/2015 14:26	WG776622
2,4-Dichlorophenol	U		0.280	10.0	1	03/20/2015 14:26	WG776622
2,4-Dimethylphenol	U		0.620	10.0	1	03/20/2015 14:26	WG776622
4,6-Dinitro-2-methylphenol	U		2.60	10.0	1	03/20/2015 14:26	WG776622
2,4-Dinitrophenol	U		3.20	10.0	1	03/20/2015 14:26	WG776622
2-Nitrophenol	U		0.320	10.0	1	03/20/2015 14:26	WG776622
4-Nitrophenol	U		2.00	10.0	1	03/20/2015 14:26	WG776622
Pentachlorophenol	U		0.310	10.0	1	03/20/2015 14:26	WG776622
Phenol	U		0.330	10.0	1	03/20/2015 14:26	WG776622
2,4,6-Trichlorophenol	U		0.300	10.0	1	03/20/2015 14:26	WG776622
(S) 2-Fluorophenol	*19.1*			*10.0-77.9*		*03/20/2015 14:26*	WG776622
(S) Phenol-d5	*13.1*			*5.00-70.1*		*03/20/2015 14:26*	WG776622
(S) Nitrobenzene-d5	*51.1*			*21.8-123*		*03/20/2015 14:26*	WG776622
(S) 2-Fluorobiphenyl	*56.9*			*29.5-131*		*03/20/2015 14:26*	WG776622
(S) 2,4,6-Tribromophenol	*40.7*			*11.2-130*		*03/20/2015 14:26*	WG776622
(S) p-Terphenyl-d14	*53.3*			*29.3-137*		*03/20/2015 14:26*	WG776622

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Mercury	U		0.0490	0.200	1	03/20/2015 18:19	WG776991

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Barium	310		1.70	5.00	1	03/24/2015 14:15	WG777374
Cadmium	U		0.700	5.00	1	03/24/2015 14:15	WG777374
Chromium	17.3		1.40	10.0	1	03/24/2015 14:15	WG777374
Lead	58.3		1.90	5.00	1	03/24/2015 14:15	WG777374
Selenium	U		7.40	20.0	1	03/24/2015 14:15	WG777374
Silver	U		2.80	10.0	1	03/24/2015 14:15	WG777374

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Arsenic	1.54	J	0.250	2.00	1	03/23/2015 11:24	WG777236

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		10.0	50.0	1	03/26/2015 16:40	WG779024
Acrolein	U		8.90	50.0	1	03/26/2015 16:40	WG779024
Acrylonitrile	U		1.90	10.0	1	03/26/2015 16:40	WG779024
Benzene	U		0.330	1.00	1	03/26/2015 16:40	WG779024
Bromobenzene	U		0.350	1.00	1	03/26/2015 16:40	WG779024
Bromodichloromethane	U		0.380	1.00	1	03/26/2015 16:40	WG779024
Bromoform	U		0.470	1.00	1	03/26/2015 16:40	WG779024
Bromomethane	U		0.870	5.00	1	03/26/2015 16:40	WG779024
n-Butylbenzene	U		0.360	1.00	1	03/26/2015 16:40	WG779024
sec-Butylbenzene	U		0.360	1.00	1	03/26/2015 16:40	WG779024
tert-Butylbenzene	U		0.400	1.00	1	03/26/2015 16:40	WG779024
Carbon tetrachloride	U		0.380	1.00	1	03/26/2015 16:40	WG779024
Chlorobenzene	U		0.350	1.00	1	03/26/2015 16:40	WG779024
Chlorodibromomethane	U		0.330	1.00	1	03/26/2015 16:40	WG779024
Chloroethane	U		0.450	5.00	1	03/26/2015 16:40	WG779024
2-Chloroethyl vinyl ether	U		3.00	50.0	1	03/26/2015 16:40	WG779024
Chloroform	U		0.320	5.00	1	03/26/2015 16:40	WG779024
Chloromethane	U		0.280	2.50	1	03/26/2015 16:40	WG779024
2-Chlorotoluene	U		0.380	1.00	1	03/26/2015 16:40	WG779024
4-Chlorotoluene	U		0.350	1.00	1	03/26/2015 16:40	WG779024
1,2-Dibromo-3-Chloropropane	U		1.30	5.00	1	03/26/2015 16:40	WG779024
1,2-Dibromoethane	U		0.380	1.00	1	03/26/2015 16:40	WG779024
Dibromomethane	U		0.350	1.00	1	03/26/2015 16:40	WG779024
1,2-Dichlorobenzene	U		0.350	1.00	1	03/26/2015 16:40	WG779024
1,3-Dichlorobenzene	U		0.220	1.00	1	03/26/2015 16:40	WG779024
1,4-Dichlorobenzene	U		0.270	1.00	1	03/26/2015 16:40	WG779024
Dichlorodifluoromethane	U		0.550	5.00	1	03/26/2015 16:40	WG779024
1,1-Dichloroethane	U		0.260	1.00	1	03/26/2015 16:40	WG779024
1,2-Dichloroethane	U		0.360	1.00	1	03/26/2015 16:40	WG779024
1,1-Dichloroethene	U		0.400	1.00	1	03/26/2015 16:40	WG779024
cis-1,2-Dichloroethene	U		0.260	1.00	1	03/26/2015 16:40	WG779024
trans-1,2-Dichloroethene	U		0.400	1.00	1	03/26/2015 16:40	WG779024
1,2-Dichloropropane	U		0.310	1.00	1	03/26/2015 16:40	WG779024
1,1-Dichloropropene	U		0.350	1.00	1	03/26/2015 16:40	WG779024
1,3-Dichloropropane	U		0.370	1.00	1	03/26/2015 16:40	WG779024

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
cis-1,3-Dichloropropene	U		0.420	1.00	1	03/26/2015 16:40	WG779024
trans-1,3-Dichloropropene	U		0.420	1.00	1	03/26/2015 16:40	WG779024
2,2-Dichloropropane	U		0.320	1.00	1	03/26/2015 16:40	WG779024
Di-isopropyl ether	U		0.320	1.00	1	03/26/2015 16:40	WG779024
Ethylbenzene	U		0.380	1.00	1	03/26/2015 16:40	WG779024
Hexachloro-1,3-butadiene	U		0.260	1.00	1	03/26/2015 16:40	WG779024
Isopropylbenzene	U		0.330	1.00	1	03/26/2015 16:40	WG779024
p-Isopropyltoluene	U		0.350	1.00	1	03/26/2015 16:40	WG779024
2-Butanone (MEK)	U		3.90	10.0	1	03/26/2015 16:40	WG779024
Methylene Chloride	U		1.00	5.00	1	03/26/2015 16:40	WG779024
4-Methyl-2-pentanone (MIBK)	U		2.10	10.0	1	03/26/2015 16:40	WG779024
Methyl tert-butyl ether	U		0.370	1.00	1	03/26/2015 16:40	WG779024
Naphthalene	U		1.00	5.00	1	03/26/2015 16:40	WG779024
n-Propylbenzene	U		0.350	1.00	1	03/26/2015 16:40	WG779024
Styrene	U		0.310	1.00	1	03/26/2015 16:40	WG779024
1,1,1,2-Tetrachloroethane	U		0.380	1.00	1	03/26/2015 16:40	WG779024
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	03/26/2015 16:40	WG779024
1,1,2-Trichlorotrifluoroethane	U		0.300	1.00	1	03/26/2015 16:40	WG779024
Tetrachloroethene	U		0.370	1.00	1	03/26/2015 16:40	WG779024
Toluene	U		0.780	5.00	1	03/26/2015 16:40	WG779024
1,2,3-Trichlorobenzene	U		0.230	1.00	1	03/26/2015 16:40	WG779024
1,2,4-Trichlorobenzene	U		0.360	1.00	1	03/26/2015 16:40	WG779024
1,1,1-Trichloroethane	U		0.319	1.00	1	03/26/2015 16:40	WG779024
1,1,2-Trichloroethane	U		0.380	1.00	1	03/26/2015 16:40	WG779024
Trichloroethene	U		0.400	1.00	1	03/26/2015 16:40	WG779024
Trichlorofluoromethane	U		1.20	5.00	1	03/26/2015 16:40	WG779024
1,2,3-Trichloropropane	U		0.810	2.50	1	03/26/2015 16:40	WG779024
1,2,4-Trimethylbenzene	U		0.370	1.00	1	03/26/2015 16:40	WG779024
1,2,3-Trimethylbenzene	U		0.320	1.00	1	03/26/2015 16:40	WG779024
1,3,5-Trimethylbenzene	U		0.390	1.00	1	03/26/2015 16:40	WG779024
Vinyl chloride	U		0.260	1.00	1	03/26/2015 16:40	WG779024
Xylenes, Total	U		1.10	3.00	1	03/26/2015 16:40	WG779024
(S) Toluene-d8	*108*			*88.5-111*		*03/26/2015 16:40*	WG779024
(S) Dibromofluoromethane	*97.7*			*78.3-121*		*03/26/2015 16:40*	WG779024
(S) 4-Bromofluorobenzene	*105*			*71.0-126*		*03/26/2015 16:40*	WG779024

Semi-Volatile Organic Compounds (GC) by Method TX 1005

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TPH C6 - C12	U		600	900	1	03/19/2015 22:03	WG776748
TPH C12 - C28	U		600	900	1	03/19/2015 22:03	WG776748
TPH C28 - C35	U		600	900	1	03/19/2015 22:03	WG776748
TPH C6 - C35	U		600	900	1	03/19/2015 22:03	WG776748
(S) o-Terphenyl	*95.6*			*70.0-130*		*03/19/2015 22:03*	WG776748

Semi-Volatile Organic Compounds (GC) by Method 8151

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
2,4-D	U		0.160	2.00	1	03/25/2015 20:45	WG776734
Dalapon	U		0.130	2.00	1	03/25/2015 20:45	WG776734
2,4-DB	U		0.190	2.00	1	03/25/2015 20:45	WG776734
Dicamba	U		0.200	2.00	1	03/25/2015 20:45	WG776734
Dichloroprop	U		0.400	2.00	1	03/25/2015 20:45	WG776734
Dinoseb	U		0.430	2.00	1	03/25/2015 20:45	WG776734
MCPA	U		50.0	100	1	03/25/2015 20:45	WG776734

Semi-Volatile Organic Compounds (GC) by Method 8151

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
MCPP	U		38.0	100	1	03/25/2015 20:45	WG776734
2,4,5-T	U		0.210	2.00	1	03/25/2015 20:45	WG776734
2,4,5-TP (Silvex)	U		0.270	2.00	1	03/25/2015 20:45	WG776734
(S) 2,4-Dichlorophenyl Acetic Acid	*66.1*			*28.2-146*		*03/25/2015 20:45*	WG776734

Pesticides (GC) by Method 8081

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Aldrin	U		0.00810	0.0500	1	03/24/2015 10:58	WG776882
Alpha BHC	U		0.0170	0.0500	1	03/24/2015 10:58	WG776882
Beta BHC	U		0.0180	0.0500	1	03/24/2015 10:58	WG776882
Delta BHC	U		0.0200	0.0500	1	03/24/2015 10:58	WG776882
Gamma BHC	U		0.0180	0.0500	1	03/24/2015 10:58	WG776882
Chlordane	U		0.0980	0.500	1	03/24/2015 10:58	WG776882
4,4-DDD	U		0.0170	0.0500	1	03/24/2015 10:58	WG776882
4,4-DDE	U		0.0160	0.0500	1	03/24/2015 10:58	WG776882
4,4-DDT	U		0.0180	0.0500	1	03/24/2015 10:58	WG776882
Dieldrin	U		0.00750	0.0500	1	03/24/2015 10:58	WG776882
Endosulfan I	U		0.0180	0.0500	1	03/24/2015 10:58	WG776882
Endosulfan II	U		0.0180	0.0500	1	03/24/2015 10:58	WG776882
Endosulfan sulfate	U		0.0200	0.0500	1	03/24/2015 10:58	WG776882
Endrin	U		0.0190	0.0500	1	03/24/2015 10:58	WG776882
Endrin aldehyde	U		0.0140	0.0500	1	03/24/2015 10:58	WG776882
Endrin ketone	U		0.0170	0.0500	1	03/24/2015 10:58	WG776882
Hexachlorobenzene	U		0.0130	0.0500	1	03/24/2015 10:58	WG776882
Heptachlor	U		0.0110	0.0500	1	03/24/2015 10:58	WG776882
Heptachlor epoxide	U		0.0180	0.0500	1	03/24/2015 10:58	WG776882
Methoxychlor	U		0.0190	0.0500	1	03/24/2015 10:58	WG776882
Toxaphene	U		0.170	0.500	1	03/24/2015 10:58	WG776882
(S) Decachlorobiphenyl	*40.1*			*10.0-156*		*03/24/2015 10:58*	WG776882
(S) Tetrachloro-m-xylene	*72.3*			*13.9-137*		*03/24/2015 10:58*	WG776882

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acenaphthene	U		0.320	1.00	1	03/20/2015 14:54	WG776622
Acenaphthylene	U		0.310	1.00	1	03/20/2015 14:54	WG776622
Anthracene	U		0.290	1.00	1	03/20/2015 14:54	WG776622
Benzidine	U		4.30	10.0	1	03/20/2015 14:54	WG776622
Benzo(a)anthracene	U		0.00290	1.00	1	03/20/2015 14:54	WG776622
Benzo(b)fluoranthene	U		0.00210	1.00	1	03/20/2015 14:54	WG776622
Benzo(k)fluoranthene	U		0.360	1.00	1	03/20/2015 14:54	WG776622
Benzo(g,h,i)perylene	U		0.00230	1.00	1	03/20/2015 14:54	WG776622
Benzo(a)pyrene	U		0.340	1.00	1	03/20/2015 14:54	WG776622
Bis(2-chlorethoxy)methane	U		0.330	10.0	1	03/20/2015 14:54	WG776622
Bis(2-chloroethyl)ether	U		1.60	10.0	1	03/20/2015 14:54	WG776622
Bis(2-chloroisopropyl)ether	U		0.440	10.0	1	03/20/2015 14:54	WG776622
4-Bromophenyl-phenylether	U		0.340	10.0	1	03/20/2015 14:54	WG776622
2-Chloronaphthalene	U		0.330	1.00	1	03/20/2015 14:54	WG776622
4-Chlorophenyl-phenylether	U		0.300	10.0	1	03/20/2015 14:54	WG776622
Chrysene	U		0.330	1.00	1	03/20/2015 14:54	WG776622
Dibenz(a,h)anthracene	U		0.280	1.00	1	03/20/2015 14:54	WG776622
3,3-Dichlorobenzidine	U		2.00	10.0	1	03/20/2015 14:54	WG776622
2,4-Dinitrotoluene	U		1.60	10.0	1	03/20/2015 14:54	WG776622
2,6-Dinitrotoluene	U		0.280	10.0	1	03/20/2015 14:54	WG776622

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Fluoranthene	U		0.310	1.00	1	03/20/2015 14:54	WG776622
Fluorene	U		0.320	1.00	1	03/20/2015 14:54	WG776622
Hexachlorobenzene	U		0.340	1.00	1	03/20/2015 14:54	WG776622
Hexachloro-1,3-butadiene	U		0.330	10.0	1	03/20/2015 14:54	WG776622
Hexachlorocyclopentadiene	U		2.30	10.0	1	03/20/2015 14:54	WG776622
Hexachloroethane	U		0.360	10.0	1	03/20/2015 14:54	WG776622
Indeno(1,2,3-cd)pyrene	U		0.280	1.00	1	03/20/2015 14:54	WG776622
Isophorone	U		0.270	10.0	1	03/20/2015 14:54	WG776622
Naphthalene	U		0.370	1.00	1	03/20/2015 14:54	WG776622
Nitrobenzene	U		0.370	10.0	1	03/20/2015 14:54	WG776622
n-Nitrosodimethylamine	U		1.30	10.0	1	03/20/2015 14:54	WG776622
n-Nitrosodiphenylamine	U		0.300	10.0	1	03/20/2015 14:54	WG776622
n-Nitrosodi-n-propylamine	U		0.400	10.0	1	03/20/2015 14:54	WG776622
Phenanthrene	U		0.370	1.00	1	03/20/2015 14:54	WG776622
Benzylbutyl phthalate	U		0.280	3.00	1	03/20/2015 14:54	WG776622
Bis(2-ethylhexyl)phthalate	U		0.710	3.00	1	03/20/2015 14:54	WG776622
Di-n-butyl phthalate	1.61	J	0.270	3.00	1	03/20/2015 14:54	WG776622
Diethyl phthalate	U		0.280	3.00	1	03/20/2015 14:54	WG776622
Dimethyl phthalate	U		0.280	3.00	1	03/20/2015 14:54	WG776622
Di-n-octyl phthalate	U		0.280	3.00	1	03/20/2015 14:54	WG776622
Pyrene	U		0.330	1.00	1	03/20/2015 14:54	WG776622
1,2,4-Trichlorobenzene	U		0.360	10.0	1	03/20/2015 14:54	WG776622
4-Chloro-3-methylphenol	U		0.260	10.0	1	03/20/2015 14:54	WG776622
2-Chlorophenol	U		0.280	10.0	1	03/20/2015 14:54	WG776622
2,4-Dichlorophenol	U		0.280	10.0	1	03/20/2015 14:54	WG776622
2,4-Dimethylphenol	U		0.620	10.0	1	03/20/2015 14:54	WG776622
4,6-Dinitro-2-methylphenol	U		2.60	10.0	1	03/20/2015 14:54	WG776622
2,4-Dinitrophenol	U		3.20	10.0	1	03/20/2015 14:54	WG776622
2-Nitrophenol	U		0.320	10.0	1	03/20/2015 14:54	WG776622
4-Nitrophenol	U		2.00	10.0	1	03/20/2015 14:54	WG776622
Pentachlorophenol	U		0.310	10.0	1	03/20/2015 14:54	WG776622
Phenol	U		0.330	10.0	1	03/20/2015 14:54	WG776622
2,4,6-Trichlorophenol	U		0.300	10.0	1	03/20/2015 14:54	WG776622
(S) 2-Fluorophenol	*20.5*			*10.0-77.9*		*03/20/2015 14:54*	WG776622
(S) Phenol-d5	*14.7*			*5.00-70.1*		*03/20/2015 14:54*	WG776622
(S) Nitrobenzene-d5	*50.0*			*21.8-123*		*03/20/2015 14:54*	WG776622
(S) 2-Fluorobiphenyl	*59.5*			*29.5-131*		*03/20/2015 14:54*	WG776622
(S) 2,4,6-Tribromophenol	*37.2*			*11.2-130*		*03/20/2015 14:54*	WG776622
(S) p-Terphenyl-d14	*58.3*			*29.3-137*		*03/20/2015 14:54*	WG776622

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Mercury	U		0.0490	0.200	1	03/20/2015 18:22	WG776991

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Barium	264		1.70	5.00	1	03/24/2015 14:20	WG777374
Cadmium	U		0.700	5.00	1	03/24/2015 14:20	WG777374
Chromium	10.7		1.40	10.0	1	03/24/2015 14:20	WG777374
Lead	44.3		1.90	5.00	1	03/24/2015 14:20	WG777374
Selenium	U		7.40	20.0	1	03/24/2015 14:20	WG777374
Silver	U		2.80	10.0	1	03/24/2015 14:20	WG777374

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Arsenic	0.951	J	0.250	2.00	1	03/23/2015 11:26	WG777236

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		10.0	50.0	1	03/20/2015 14:00	WG777041
Acrolein	U		8.90	50.0	1	03/20/2015 14:00	WG777041
Acrylonitrile	U		1.90	10.0	1	03/20/2015 14:00	WG777041
Benzene	U		0.330	1.00	1	03/20/2015 14:00	WG777041
Bromobenzene	U		0.350	1.00	1	03/20/2015 14:00	WG777041
Bromodichloromethane	U		0.380	1.00	1	03/20/2015 14:00	WG777041
Bromoform	U		0.470	1.00	1	03/20/2015 14:00	WG777041
Bromomethane	U		0.870	5.00	1	03/20/2015 14:00	WG777041
n-Butylbenzene	U		0.360	1.00	1	03/20/2015 14:00	WG777041
sec-Butylbenzene	U		0.360	1.00	1	03/20/2015 14:00	WG777041
tert-Butylbenzene	U		0.400	1.00	1	03/20/2015 14:00	WG777041
Carbon tetrachloride	U		0.380	1.00	1	03/20/2015 14:00	WG777041
Chlorobenzene	U		0.350	1.00	1	03/20/2015 14:00	WG777041
Chlorodibromomethane	U		0.330	1.00	1	03/20/2015 14:00	WG777041
Chloroethane	U		0.450	5.00	1	03/20/2015 14:00	WG777041
2-Chloroethyl vinyl ether	U		3.00	50.0	1	03/20/2015 14:00	WG777041
Chloroform	U		0.320	5.00	1	03/20/2015 14:00	WG777041
Chloromethane	U		0.280	2.50	1	03/20/2015 14:00	WG777041
2-Chlorotoluene	U		0.380	1.00	1	03/20/2015 14:00	WG777041
4-Chlorotoluene	U		0.350	1.00	1	03/20/2015 14:00	WG777041
1,2-Dibromo-3-Chloropropane	U		1.30	5.00	1	03/20/2015 14:00	WG777041
1,2-Dibromoethane	U		0.380	1.00	1	03/20/2015 14:00	WG777041
Dibromomethane	U		0.350	1.00	1	03/20/2015 14:00	WG777041
1,2-Dichlorobenzene	U		0.350	1.00	1	03/20/2015 14:00	WG777041
1,3-Dichlorobenzene	U		0.220	1.00	1	03/20/2015 14:00	WG777041
1,4-Dichlorobenzene	U		0.270	1.00	1	03/20/2015 14:00	WG777041
Dichlorodifluoromethane	U		0.550	5.00	1	03/20/2015 14:00	WG777041
1,1-Dichloroethane	U		0.260	1.00	1	03/20/2015 14:00	WG777041
1,2-Dichloroethane	U		0.360	1.00	1	03/20/2015 14:00	WG777041
1,1-Dichloroethene	U		0.400	1.00	1	03/20/2015 14:00	WG777041
cis-1,2-Dichloroethene	U		0.260	1.00	1	03/20/2015 14:00	WG777041
trans-1,2-Dichloroethene	U		0.400	1.00	1	03/20/2015 14:00	WG777041
1,2-Dichloropropane	U		0.310	1.00	1	03/20/2015 14:00	WG777041
1,1-Dichloropropene	U		0.350	1.00	1	03/20/2015 14:00	WG777041
1,3-Dichloropropane	U		0.370	1.00	1	03/20/2015 14:00	WG777041

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
cis-1,3-Dichloropropene	U		0.420	1.00	1	03/20/2015 14:00	WG777041
trans-1,3-Dichloropropene	U		0.420	1.00	1	03/20/2015 14:00	WG777041
2,2-Dichloropropane	U		0.320	1.00	1	03/20/2015 14:00	WG777041
Di-isopropyl ether	U		0.320	1.00	1	03/20/2015 14:00	WG777041
Ethylbenzene	U		0.380	1.00	1	03/20/2015 14:00	WG777041
Hexachloro-1,3-butadiene	U		0.260	1.00	1	03/20/2015 14:00	WG777041
Isopropylbenzene	U		0.330	1.00	1	03/20/2015 14:00	WG777041
p-Isopropyltoluene	U		0.350	1.00	1	03/20/2015 14:00	WG777041
2-Butanone (MEK)	U		3.90	10.0	1	03/20/2015 14:00	WG777041
Methylene Chloride	U		1.00	5.00	1	03/20/2015 14:00	WG777041
4-Methyl-2-pentanone (MIBK)	U		2.10	10.0	1	03/20/2015 14:00	WG777041
Methyl tert-butyl ether	U		0.370	1.00	1	03/20/2015 14:00	WG777041
Naphthalene	U		1.00	5.00	1	03/20/2015 14:00	WG777041
n-Propylbenzene	U		0.350	1.00	1	03/20/2015 14:00	WG777041
Styrene	U		0.310	1.00	1	03/20/2015 14:00	WG777041
1,1,1,2-Tetrachloroethane	U		0.380	1.00	1	03/20/2015 14:00	WG777041
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	03/20/2015 14:00	WG777041
1,1,2-Trichlorotrifluoroethane	U		0.300	1.00	1	03/20/2015 14:00	WG777041
Tetrachloroethene	U		0.370	1.00	1	03/20/2015 14:00	WG777041
Toluene	U		0.780	5.00	1	03/20/2015 14:00	WG777041
1,2,3-Trichlorobenzene	U		0.230	1.00	1	03/20/2015 14:00	WG777041
1,2,4-Trichlorobenzene	U		0.360	1.00	1	03/20/2015 14:00	WG777041
1,1,1-Trichloroethane	U		0.319	1.00	1	03/20/2015 14:00	WG777041
1,1,2-Trichloroethane	U		0.380	1.00	1	03/20/2015 14:00	WG777041
Trichloroethene	U		0.400	1.00	1	03/20/2015 14:00	WG777041
Trichlorofluoromethane	U		1.20	5.00	1	03/20/2015 14:00	WG777041
1,2,3-Trichloropropane	U		0.810	2.50	1	03/20/2015 14:00	WG777041
1,2,4-Trimethylbenzene	U		0.370	1.00	1	03/20/2015 14:00	WG777041
1,2,3-Trimethylbenzene	U		0.320	1.00	1	03/20/2015 14:00	WG777041
1,3,5-Trimethylbenzene	U		0.390	1.00	1	03/20/2015 14:00	WG777041
Vinyl chloride	U		0.260	1.00	1	03/20/2015 14:00	WG777041
Xylenes, Total	U		1.10	3.00	1	03/20/2015 14:00	WG777041
(S) Toluene-d8	*109*			*88.5-111*		*03/20/2015 14:00*	WG777041
(S) Dibromofluoromethane	*101*			*78.3-121*		*03/20/2015 14:00*	WG777041
(S) 4-Bromofluorobenzene	*107*			*71.0-126*		*03/20/2015 14:00*	WG777041

Semi-Volatile Organic Compounds (GC) by Method TX 1005

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TPH C6 - C12	U		600	900	1	03/19/2015 22:18	WG776748
TPH C12 - C28	U		600	900	1	03/19/2015 22:18	WG776748
TPH C28 - C35	U		600	900	1	03/19/2015 22:18	WG776748
TPH C6 - C35	U		600	900	1	03/19/2015 22:18	WG776748
(S) o-Terphenyl	*94.6*			*70.0-130*		*03/19/2015 22:18*	WG776748

Semi-Volatile Organic Compounds (GC) by Method 8151

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
2,4-D	U		0.160	2.00	1	03/25/2015 20:57	WG776734
Dalapon	U		0.130	2.00	1	03/25/2015 20:57	WG776734
2,4-DB	U		0.190	2.00	1	03/25/2015 20:57	WG776734
Dicamba	U		0.200	2.00	1	03/25/2015 20:57	WG776734
Dichloroprop	U		0.400	2.00	1	03/25/2015 20:57	WG776734
Dinoseb	U		0.430	2.00	1	03/25/2015 20:57	WG776734
MCPA	U		50.0	100	1	03/25/2015 20:57	WG776734

Semi-Volatile Organic Compounds (GC) by Method 8151

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
MCPP	U		38.0	100	1	03/25/2015 20:57	WG776734
2,4,5-T	U		0.210	2.00	1	03/25/2015 20:57	WG776734
2,4,5-TP (Silvex)	U		0.270	2.00	1	03/25/2015 20:57	WG776734
(S) 2,4-Dichlorophenyl Acetic Acid	*67.2*			*28.2-146*		*03/25/2015 20:57*	WG776734

Pesticides (GC) by Method 8081

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Aldrin	U		0.00810	0.0500	1	03/24/2015 11:10	WG776882
Alpha BHC	U		0.0170	0.0500	1	03/24/2015 11:10	WG776882
Beta BHC	U		0.0180	0.0500	1	03/24/2015 11:10	WG776882
Delta BHC	U		0.0200	0.0500	1	03/24/2015 11:10	WG776882
Gamma BHC	U		0.0180	0.0500	1	03/24/2015 11:10	WG776882
Chlordane	U		0.0980	0.500	1	03/24/2015 11:10	WG776882
4,4-DDD	U		0.0170	0.0500	1	03/24/2015 11:10	WG776882
4,4-DDE	U		0.0160	0.0500	1	03/24/2015 11:10	WG776882
4,4-DDT	U		0.0180	0.0500	1	03/24/2015 11:10	WG776882
Dieldrin	U		0.00750	0.0500	1	03/24/2015 11:10	WG776882
Endosulfan I	U		0.0180	0.0500	1	03/24/2015 11:10	WG776882
Endosulfan II	U		0.0180	0.0500	1	03/24/2015 11:10	WG776882
Endosulfan sulfate	U		0.0200	0.0500	1	03/24/2015 11:10	WG776882
Endrin	U		0.0190	0.0500	1	03/24/2015 11:10	WG776882
Endrin aldehyde	U		0.0140	0.0500	1	03/24/2015 11:10	WG776882
Endrin ketone	U		0.0170	0.0500	1	03/24/2015 11:10	WG776882
Hexachlorobenzene	U		0.0130	0.0500	1	03/24/2015 11:10	WG776882
Heptachlor	U		0.0110	0.0500	1	03/24/2015 11:10	WG776882
Heptachlor epoxide	U		0.0180	0.0500	1	03/24/2015 11:10	WG776882
Methoxychlor	U		0.0190	0.0500	1	03/24/2015 11:10	WG776882
Toxaphene	U		0.170	0.500	1	03/24/2015 11:10	WG776882
(S) Decachlorobiphenyl	*37.9*			*10.0-156*		*03/24/2015 11:10*	WG776882
(S) Tetrachloro-m-xylene	*70.8*			*13.9-137*		*03/24/2015 11:10*	WG776882

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acenaphthene	U		0.320	1.00	1	03/20/2015 15:17	WG776622
Acenaphthylene	U		0.310	1.00	1	03/20/2015 15:17	WG776622
Anthracene	U		0.290	1.00	1	03/20/2015 15:17	WG776622
Benzidine	U		4.30	10.0	1	03/20/2015 15:17	WG776622
Benzo(a)anthracene	U		0.00290	1.00	1	03/20/2015 15:17	WG776622
Benzo(b)fluoranthene	U		0.00210	1.00	1	03/20/2015 15:17	WG776622
Benzo(k)fluoranthene	U		0.360	1.00	1	03/20/2015 15:17	WG776622
Benzo(g,h,i)perylene	U		0.00230	1.00	1	03/20/2015 15:17	WG776622
Benzo(a)pyrene	U		0.340	1.00	1	03/20/2015 15:17	WG776622
Bis(2-chlorethoxy)methane	U		0.330	10.0	1	03/20/2015 15:17	WG776622
Bis(2-chloroethyl)ether	U		1.60	10.0	1	03/20/2015 15:17	WG776622
Bis(2-chloroisopropyl)ether	U		0.440	10.0	1	03/20/2015 15:17	WG776622
4-Bromophenyl-phenylether	U		0.340	10.0	1	03/20/2015 15:17	WG776622
2-Chloronaphthalene	U		0.330	1.00	1	03/20/2015 15:17	WG776622
4-Chlorophenyl-phenylether	U		0.300	10.0	1	03/20/2015 15:17	WG776622
Chrysene	U		0.330	1.00	1	03/20/2015 15:17	WG776622
Dibenz(a,h)anthracene	U		0.280	1.00	1	03/20/2015 15:17	WG776622
3,3-Dichlorobenzidine	U		2.00	10.0	1	03/20/2015 15:17	WG776622
2,4-Dinitrotoluene	U		1.60	10.0	1	03/20/2015 15:17	WG776622
2,6-Dinitrotoluene	U		0.280	10.0	1	03/20/2015 15:17	WG776622

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Fluoranthene	U		0.310	1.00	1	03/20/2015 15:17	WG776622
Fluorene	U		0.320	1.00	1	03/20/2015 15:17	WG776622
Hexachlorobenzene	U		0.340	1.00	1	03/20/2015 15:17	WG776622
Hexachloro-1,3-butadiene	U		0.330	10.0	1	03/20/2015 15:17	WG776622
Hexachlorocyclopentadiene	U		2.30	10.0	1	03/20/2015 15:17	WG776622
Hexachloroethane	U		0.360	10.0	1	03/20/2015 15:17	WG776622
Indeno(1,2,3-cd)pyrene	U		0.280	1.00	1	03/20/2015 15:17	WG776622
Isophorone	U		0.270	10.0	1	03/20/2015 15:17	WG776622
Naphthalene	U		0.370	1.00	1	03/20/2015 15:17	WG776622
Nitrobenzene	U		0.370	10.0	1	03/20/2015 15:17	WG776622
n-Nitrosodimethylamine	U		1.30	10.0	1	03/20/2015 15:17	WG776622
n-Nitrosodiphenylamine	U		0.300	10.0	1	03/20/2015 15:17	WG776622
n-Nitrosodi-n-propylamine	U		0.400	10.0	1	03/20/2015 15:17	WG776622
Phenanthrene	U		0.370	1.00	1	03/20/2015 15:17	WG776622
Benzylbutyl phthalate	U		0.280	3.00	1	03/20/2015 15:17	WG776622
Bis(2-ethylhexyl)phthalate	U		0.710	3.00	1	03/20/2015 15:17	WG776622
Di-n-butyl phthalate	0.366	J	0.270	3.00	1	03/20/2015 15:17	WG776622
Diethyl phthalate	U		0.280	3.00	1	03/20/2015 15:17	WG776622
Dimethyl phthalate	U		0.280	3.00	1	03/20/2015 15:17	WG776622
Di-n-octyl phthalate	U		0.280	3.00	1	03/20/2015 15:17	WG776622
Pyrene	U		0.330	1.00	1	03/20/2015 15:17	WG776622
1,2,4-Trichlorobenzene	U		0.360	10.0	1	03/20/2015 15:17	WG776622
4-Chloro-3-methylphenol	U		0.260	10.0	1	03/20/2015 15:17	WG776622
2-Chlorophenol	U		0.280	10.0	1	03/20/2015 15:17	WG776622
2,4-Dichlorophenol	U		0.280	10.0	1	03/20/2015 15:17	WG776622
2,4-Dimethylphenol	U		0.620	10.0	1	03/20/2015 15:17	WG776622
4,6-Dinitro-2-methylphenol	U		2.60	10.0	1	03/20/2015 15:17	WG776622
2,4-Dinitrophenol	U		3.20	10.0	1	03/20/2015 15:17	WG776622
2-Nitrophenol	U		0.320	10.0	1	03/20/2015 15:17	WG776622
4-Nitrophenol	U		2.00	10.0	1	03/20/2015 15:17	WG776622
Pentachlorophenol	U		0.310	10.0	1	03/20/2015 15:17	WG776622
Phenol	U		0.330	10.0	1	03/20/2015 15:17	WG776622
2,4,6-Trichlorophenol	U		0.300	10.0	1	03/20/2015 15:17	WG776622
(S) 2-Fluorophenol	*17.6*			*10.0-77.9*		*03/20/2015 15:17*	WG776622
(S) Phenol-d5	*11.7*			*5.00-70.1*		*03/20/2015 15:17*	WG776622
(S) Nitrobenzene-d5	*55.0*			*21.8-123*		*03/20/2015 15:17*	WG776622
(S) 2-Fluorobiphenyl	*62.6*			*29.5-131*		*03/20/2015 15:17*	WG776622
(S) 2,4,6-Tribromophenol	*39.3*			*11.2-130*		*03/20/2015 15:17*	WG776622
(S) p-Terphenyl-d14	*58.5*			*29.3-137*		*03/20/2015 15:17*	WG776622

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

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Mercury	U		0.0490	0.200	1	03/20/2015 18:24	WG776991

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Barium	434		1.70	5.00	1	03/24/2015 14:25	WG777374
Cadmium	U		0.700	5.00	1	03/24/2015 14:25	WG777374
Chromium	29.5		1.40	10.0	1	03/24/2015 14:25	WG777374
Lead	92.8		1.90	5.00	1	03/24/2015 14:25	WG777374
Selenium	U		7.40	20.0	1	03/24/2015 14:25	WG777374
Silver	U		2.80	10.0	1	03/24/2015 14:25	WG777374

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Arsenic	0.892	J	0.250	2.00	1	03/23/2015 11:28	WG777236

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		10.0	50.0	1	03/20/2015 14:24	WG777041
Acrolein	U		8.90	50.0	1	03/20/2015 14:24	WG777041
Acrylonitrile	U		1.90	10.0	1	03/20/2015 14:24	WG777041
Benzene	U		0.330	1.00	1	03/20/2015 14:24	WG777041
Bromobenzene	U		0.350	1.00	1	03/20/2015 14:24	WG777041
Bromodichloromethane	U		0.380	1.00	1	03/20/2015 14:24	WG777041
Bromoform	U		0.470	1.00	1	03/20/2015 14:24	WG777041
Bromomethane	U		0.870	5.00	1	03/20/2015 14:24	WG777041
n-Butylbenzene	U		0.360	1.00	1	03/20/2015 14:24	WG777041
sec-Butylbenzene	U		0.360	1.00	1	03/20/2015 14:24	WG777041
tert-Butylbenzene	U		0.400	1.00	1	03/20/2015 14:24	WG777041
Carbon tetrachloride	U		0.380	1.00	1	03/20/2015 14:24	WG777041
Chlorobenzene	U		0.350	1.00	1	03/20/2015 14:24	WG777041
Chlorodibromomethane	U		0.330	1.00	1	03/20/2015 14:24	WG777041
Chloroethane	U		0.450	5.00	1	03/20/2015 14:24	WG777041
2-Chloroethyl vinyl ether	U		3.00	50.0	1	03/20/2015 14:24	WG777041
Chloroform	U		0.320	5.00	1	03/20/2015 14:24	WG777041
Chloromethane	U		0.280	2.50	1	03/20/2015 14:24	WG777041
2-Chlorotoluene	U		0.380	1.00	1	03/20/2015 14:24	WG777041
4-Chlorotoluene	U		0.350	1.00	1	03/20/2015 14:24	WG777041
1,2-Dibromo-3-Chloropropane	U		1.30	5.00	1	03/20/2015 14:24	WG777041
1,2-Dibromoethane	U		0.380	1.00	1	03/20/2015 14:24	WG777041
Dibromomethane	U		0.350	1.00	1	03/20/2015 14:24	WG777041
1,2-Dichlorobenzene	U		0.350	1.00	1	03/20/2015 14:24	WG777041
1,3-Dichlorobenzene	U		0.220	1.00	1	03/20/2015 14:24	WG777041
1,4-Dichlorobenzene	U		0.270	1.00	1	03/20/2015 14:24	WG777041
Dichlorodifluoromethane	U		0.550	5.00	1	03/20/2015 14:24	WG777041
1,1-Dichloroethane	U		0.260	1.00	1	03/20/2015 14:24	WG777041
1,2-Dichloroethane	U		0.360	1.00	1	03/20/2015 14:24	WG777041
1,1-Dichloroethene	U		0.400	1.00	1	03/20/2015 14:24	WG777041
cis-1,2-Dichloroethene	U		0.260	1.00	1	03/20/2015 14:24	WG777041
trans-1,2-Dichloroethene	U		0.400	1.00	1	03/20/2015 14:24	WG777041
1,2-Dichloropropane	U		0.310	1.00	1	03/20/2015 14:24	WG777041
1,1-Dichloropropene	U		0.350	1.00	1	03/20/2015 14:24	WG777041
1,3-Dichloropropane	U		0.370	1.00	1	03/20/2015 14:24	WG777041

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
cis-1,3-Dichloropropene	U		0.420	1.00	1	03/20/2015 14:24	WG777041
trans-1,3-Dichloropropene	U		0.420	1.00	1	03/20/2015 14:24	WG777041
2,2-Dichloropropane	U		0.320	1.00	1	03/20/2015 14:24	WG777041
Di-isopropyl ether	U		0.320	1.00	1	03/20/2015 14:24	WG777041
Ethylbenzene	U		0.380	1.00	1	03/20/2015 14:24	WG777041
Hexachloro-1,3-butadiene	U		0.260	1.00	1	03/20/2015 14:24	WG777041
Isopropylbenzene	U		0.330	1.00	1	03/20/2015 14:24	WG777041
p-Isopropyltoluene	U		0.350	1.00	1	03/20/2015 14:24	WG777041
2-Butanone (MEK)	U		3.90	10.0	1	03/20/2015 14:24	WG777041
Methylene Chloride	U		1.00	5.00	1	03/20/2015 14:24	WG777041
4-Methyl-2-pentanone (MIBK)	U		2.10	10.0	1	03/20/2015 14:24	WG777041
Methyl tert-butyl ether	U		0.370	1.00	1	03/20/2015 14:24	WG777041
Naphthalene	U		1.00	5.00	1	03/20/2015 14:24	WG777041
n-Propylbenzene	U		0.350	1.00	1	03/20/2015 14:24	WG777041
Styrene	U		0.310	1.00	1	03/20/2015 14:24	WG777041
1,1,1,2-Tetrachloroethane	U		0.380	1.00	1	03/20/2015 14:24	WG777041
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	03/20/2015 14:24	WG777041
1,1,2-Trichlorotrifluoroethane	U		0.300	1.00	1	03/20/2015 14:24	WG777041
Tetrachloroethene	U		0.370	1.00	1	03/20/2015 14:24	WG777041
Toluene	U		0.780	5.00	1	03/20/2015 14:24	WG777041
1,2,3-Trichlorobenzene	U		0.230	1.00	1	03/20/2015 14:24	WG777041
1,2,4-Trichlorobenzene	U		0.360	1.00	1	03/20/2015 14:24	WG777041
1,1,1-Trichloroethane	U		0.319	1.00	1	03/20/2015 14:24	WG777041
1,1,2-Trichloroethane	U		0.380	1.00	1	03/20/2015 14:24	WG777041
Trichloroethene	U		0.400	1.00	1	03/20/2015 14:24	WG777041
Trichlorofluoromethane	U		1.20	5.00	1	03/20/2015 14:24	WG777041
1,2,3-Trichloropropane	U		0.810	2.50	1	03/20/2015 14:24	WG777041
1,2,4-Trimethylbenzene	U		0.370	1.00	1	03/20/2015 14:24	WG777041
1,2,3-Trimethylbenzene	U		0.320	1.00	1	03/20/2015 14:24	WG777041
1,3,5-Trimethylbenzene	U		0.390	1.00	1	03/20/2015 14:24	WG777041
Vinyl chloride	U		0.260	1.00	1	03/20/2015 14:24	WG777041
Xylenes, Total	U		1.10	3.00	1	03/20/2015 14:24	WG777041
(S) Toluene-d8	*109*			*88.5-111*		*03/20/2015 14:24*	WG777041
(S) Dibromofluoromethane	*100*			*78.3-121*		*03/20/2015 14:24*	WG777041
(S) 4-Bromofluorobenzene	*109*			*71.0-126*		*03/20/2015 14:24*	WG777041

Semi-Volatile Organic Compounds (GC) by Method TX 1005

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TPH C6 - C12	U		600	900	1	03/19/2015 22:34	WG776748
TPH C12 - C28	U		600	900	1	03/19/2015 22:34	WG776748
TPH C28 - C35	U		600	900	1	03/19/2015 22:34	WG776748
TPH C6 - C35	U		600	900	1	03/19/2015 22:34	WG776748
(S) o-Terphenyl	*95.1*			*70.0-130*		*03/19/2015 22:34*	WG776748

Semi-Volatile Organic Compounds (GC) by Method 8151

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
2,4-D	U		0.160	2.00	1	03/25/2015 21:10	WG776734
Dalapon	U		0.130	2.00	1	03/25/2015 21:10	WG776734
2,4-DB	U		0.190	2.00	1	03/25/2015 21:10	WG776734
Dicamba	U		0.200	2.00	1	03/25/2015 21:10	WG776734
Dichloroprop	U		0.400	2.00	1	03/25/2015 21:10	WG776734
Dinoseb	U		0.430	2.00	1	03/25/2015 21:10	WG776734
MCPA	U		50.0	100	1	03/25/2015 21:10	WG776734

Semi-Volatile Organic Compounds (GC) by Method 8151

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
MCPP	U		38.0	100	1	03/25/2015 21:10	WG776734
2,4,5-T	U		0.210	2.00	1	03/25/2015 21:10	WG776734
2,4,5-TP (Silvex)	U		0.270	2.00	1	03/25/2015 21:10	WG776734
(S) 2,4-Dichlorophenyl Acetic Acid	*71.4*			*28.2-146*		*03/25/2015 21:10*	WG776734

Pesticides (GC) by Method 8081

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Aldrin	U		0.00810	0.0500	1	03/24/2015 11:23	WG776882
Alpha BHC	U		0.0170	0.0500	1	03/24/2015 11:23	WG776882
Beta BHC	U		0.0180	0.0500	1	03/24/2015 11:23	WG776882
Delta BHC	U		0.0200	0.0500	1	03/24/2015 11:23	WG776882
Gamma BHC	U		0.0180	0.0500	1	03/24/2015 11:23	WG776882
Chlordane	U		0.0980	0.500	1	03/24/2015 11:23	WG776882
4,4-DDD	U		0.0170	0.0500	1	03/24/2015 11:23	WG776882
4,4-DDE	U		0.0160	0.0500	1	03/24/2015 11:23	WG776882
4,4-DDT	U		0.0180	0.0500	1	03/24/2015 11:23	WG776882
Dieldrin	U		0.00750	0.0500	1	03/24/2015 11:23	WG776882
Endosulfan I	U		0.0180	0.0500	1	03/24/2015 11:23	WG776882
Endosulfan II	U		0.0180	0.0500	1	03/24/2015 11:23	WG776882
Endosulfan sulfate	U		0.0200	0.0500	1	03/24/2015 11:23	WG776882
Endrin	U		0.0190	0.0500	1	03/24/2015 11:23	WG776882
Endrin aldehyde	U		0.0140	0.0500	1	03/24/2015 11:23	WG776882
Endrin ketone	U		0.0170	0.0500	1	03/24/2015 11:23	WG776882
Hexachlorobenzene	U		0.0130	0.0500	1	03/24/2015 11:23	WG776882
Heptachlor	U		0.0110	0.0500	1	03/24/2015 11:23	WG776882
Heptachlor epoxide	U		0.0180	0.0500	1	03/24/2015 11:23	WG776882
Methoxychlor	U		0.0190	0.0500	1	03/24/2015 11:23	WG776882
Toxaphene	U		0.170	0.500	1	03/24/2015 11:23	WG776882
(S) Decachlorobiphenyl	*29.0*			*10.0-156*		*03/24/2015 11:23*	WG776882
(S) Tetrachloro-m-xylene	*71.5*			*13.9-137*		*03/24/2015 11:23*	WG776882

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acenaphthene	U		0.320	1.00	1	03/20/2015 15:41	WG776622
Acenaphthylene	U		0.310	1.00	1	03/20/2015 15:41	WG776622
Anthracene	U		0.290	1.00	1	03/20/2015 15:41	WG776622
Benzidine	U		4.30	10.0	1	03/20/2015 15:41	WG776622
Benzo(a)anthracene	U		0.00290	1.00	1	03/20/2015 15:41	WG776622
Benzo(b)fluoranthene	U		0.00210	1.00	1	03/20/2015 15:41	WG776622
Benzo(k)fluoranthene	U		0.360	1.00	1	03/20/2015 15:41	WG776622
Benzo(g,h,i)perylene	U		0.00230	1.00	1	03/20/2015 15:41	WG776622
Benzo(a)pyrene	U		0.340	1.00	1	03/20/2015 15:41	WG776622
Bis(2-chlorethoxy)methane	U		0.330	10.0	1	03/20/2015 15:41	WG776622
Bis(2-chloroethyl)ether	U		1.60	10.0	1	03/20/2015 15:41	WG776622
Bis(2-chloroisopropyl)ether	U		0.440	10.0	1	03/20/2015 15:41	WG776622
4-Bromophenyl-phenylether	U		0.340	10.0	1	03/20/2015 15:41	WG776622
2-Chloronaphthalene	U		0.330	1.00	1	03/20/2015 15:41	WG776622
4-Chlorophenyl-phenylether	U		0.300	10.0	1	03/20/2015 15:41	WG776622
Chrysene	U		0.330	1.00	1	03/20/2015 15:41	WG776622
Dibenz(a,h)anthracene	U		0.280	1.00	1	03/20/2015 15:41	WG776622
3,3-Dichlorobenzidine	U		2.00	10.0	1	03/20/2015 15:41	WG776622
2,4-Dinitrotoluene	U		1.60	10.0	1	03/20/2015 15:41	WG776622
2,6-Dinitrotoluene	U		0.280	10.0	1	03/20/2015 15:41	WG776622

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Fluoranthene	U		0.310	1.00	1	03/20/2015 15:41	WG776622
Fluorene	U		0.320	1.00	1	03/20/2015 15:41	WG776622
Hexachlorobenzene	U		0.340	1.00	1	03/20/2015 15:41	WG776622
Hexachloro-1,3-butadiene	U		0.330	10.0	1	03/20/2015 15:41	WG776622
Hexachlorocyclopentadiene	U		2.30	10.0	1	03/20/2015 15:41	WG776622
Hexachloroethane	U		0.360	10.0	1	03/20/2015 15:41	WG776622
Indeno(1,2,3-cd)pyrene	U		0.280	1.00	1	03/20/2015 15:41	WG776622
Isophorone	U		0.270	10.0	1	03/20/2015 15:41	WG776622
Naphthalene	U		0.370	1.00	1	03/20/2015 15:41	WG776622
Nitrobenzene	U		0.370	10.0	1	03/20/2015 15:41	WG776622
n-Nitrosodimethylamine	U		1.30	10.0	1	03/20/2015 15:41	WG776622
n-Nitrosodiphenylamine	U		0.300	10.0	1	03/20/2015 15:41	WG776622
n-Nitrosodi-n-propylamine	U		0.400	10.0	1	03/20/2015 15:41	WG776622
Phenanthrene	U		0.370	1.00	1	03/20/2015 15:41	WG776622
Benzylbutyl phthalate	U		0.280	3.00	1	03/20/2015 15:41	WG776622
Bis(2-ethylhexyl)phthalate	U		0.710	3.00	1	03/20/2015 15:41	WG776622
Di-n-butyl phthalate	0.735	J	0.270	3.00	1	03/20/2015 15:41	WG776622
Diethyl phthalate	U		0.280	3.00	1	03/20/2015 15:41	WG776622
Dimethyl phthalate	U		0.280	3.00	1	03/20/2015 15:41	WG776622
Di-n-octyl phthalate	U		0.280	3.00	1	03/20/2015 15:41	WG776622
Pyrene	U		0.330	1.00	1	03/20/2015 15:41	WG776622
1,2,4-Trichlorobenzene	U		0.360	10.0	1	03/20/2015 15:41	WG776622
4-Chloro-3-methylphenol	U		0.260	10.0	1	03/20/2015 15:41	WG776622
2-Chlorophenol	U		0.280	10.0	1	03/20/2015 15:41	WG776622
2,4-Dichlorophenol	U		0.280	10.0	1	03/20/2015 15:41	WG776622
2,4-Dimethylphenol	U		0.620	10.0	1	03/20/2015 15:41	WG776622
4,6-Dinitro-2-methylphenol	U		2.60	10.0	1	03/20/2015 15:41	WG776622
2,4-Dinitrophenol	U		3.20	10.0	1	03/20/2015 15:41	WG776622
2-Nitrophenol	U		0.320	10.0	1	03/20/2015 15:41	WG776622
4-Nitrophenol	U		2.00	10.0	1	03/20/2015 15:41	WG776622
Pentachlorophenol	U		0.310	10.0	1	03/20/2015 15:41	WG776622
Phenol	U		0.330	10.0	1	03/20/2015 15:41	WG776622
2,4,6-Trichlorophenol	U		0.300	10.0	1	03/20/2015 15:41	WG776622
(S) 2-Fluorophenol	*12.9*			*10.0-77.9*		*03/20/2015 15:41*	WG776622
(S) Phenol-d5	*8.68*			*5.00-70.1*		*03/20/2015 15:41*	WG776622
(S) Nitrobenzene-d5	*54.2*			*21.8-123*		*03/20/2015 15:41*	WG776622
(S) 2-Fluorobiphenyl	*66.6*			*29.5-131*		*03/20/2015 15:41*	WG776622
(S) 2,4,6-Tribromophenol	*28.4*			*11.2-130*		*03/20/2015 15:41*	WG776622
(S) p-Terphenyl-d14	*57.4*			*29.3-137*		*03/20/2015 15:41*	WG776622

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		10.0	50.0	1	03/28/2015 01:06	WG777304
Acrolein	U		8.90	50.0	1	03/28/2015 01:06	WG777304
Acrylonitrile	U		1.90	10.0	1	03/28/2015 01:06	WG777304
Benzene	U		0.330	1.00	1	03/28/2015 01:06	WG777304
Bromobenzene	U		0.350	1.00	1	03/28/2015 01:06	WG777304
Bromodichloromethane	U		0.380	1.00	1	03/28/2015 01:06	WG777304
Bromoform	U		0.470	1.00	1	03/28/2015 01:06	WG777304
Bromomethane	U		0.870	5.00	1	03/28/2015 01:06	WG777304
n-Butylbenzene	U		0.360	1.00	1	03/28/2015 01:06	WG777304
sec-Butylbenzene	U		0.360	1.00	1	03/28/2015 01:06	WG777304
tert-Butylbenzene	U		0.400	1.00	1	03/28/2015 01:06	WG777304
Carbon tetrachloride	U		0.380	1.00	1	03/28/2015 01:06	WG777304
Chlorobenzene	U		0.350	1.00	1	03/28/2015 01:06	WG777304
Chlorodibromomethane	U		0.330	1.00	1	03/28/2015 01:06	WG777304
Chloroethane	U		0.450	5.00	1	03/28/2015 01:06	WG777304
2-Chloroethyl vinyl ether	U		3.00	50.0	1	03/28/2015 01:06	WG777304
Chloroform	U		0.320	5.00	1	03/28/2015 01:06	WG777304
Chloromethane	U		0.280	2.50	1	03/28/2015 01:06	WG777304
2-Chlorotoluene	U		0.380	1.00	1	03/28/2015 01:06	WG777304
4-Chlorotoluene	U		0.350	1.00	1	03/28/2015 01:06	WG777304
1,2-Dibromo-3-Chloropropane	U		1.30	5.00	1	03/28/2015 01:06	WG777304
1,2-Dibromoethane	U		0.380	1.00	1	03/28/2015 01:06	WG777304
Dibromomethane	U		0.350	1.00	1	03/28/2015 01:06	WG777304
1,2-Dichlorobenzene	U		0.350	1.00	1	03/28/2015 01:06	WG777304
1,3-Dichlorobenzene	U		0.220	1.00	1	03/28/2015 01:06	WG777304
1,4-Dichlorobenzene	U		0.270	1.00	1	03/28/2015 01:06	WG777304
Dichlorodifluoromethane	U		0.550	5.00	1	03/28/2015 01:06	WG777304
1,1-Dichloroethane	U		0.260	1.00	1	03/28/2015 01:06	WG777304
1,2-Dichloroethane	U		0.360	1.00	1	03/28/2015 01:06	WG777304
1,1-Dichloroethene	U		0.400	1.00	1	03/28/2015 01:06	WG777304
cis-1,2-Dichloroethene	U		0.260	1.00	1	03/28/2015 01:06	WG777304
trans-1,2-Dichloroethene	U		0.400	1.00	1	03/28/2015 01:06	WG777304
1,2-Dichloropropane	U		0.310	1.00	1	03/28/2015 01:06	WG777304
1,1-Dichloropropene	U		0.350	1.00	1	03/28/2015 01:06	WG777304
1,3-Dichloropropane	U		0.370	1.00	1	03/28/2015 01:06	WG777304
cis-1,3-Dichloropropene	U		0.420	1.00	1	03/28/2015 01:06	WG777304
trans-1,3-Dichloropropene	U		0.420	1.00	1	03/28/2015 01:06	WG777304
2,2-Dichloropropane	U		0.320	1.00	1	03/28/2015 01:06	WG777304
Di-isopropyl ether	U		0.320	1.00	1	03/28/2015 01:06	WG777304
Ethylbenzene	U		0.380	1.00	1	03/28/2015 01:06	WG777304
Hexachloro-1,3-butadiene	U		0.260	1.00	1	03/28/2015 01:06	WG777304
Isopropylbenzene	U		0.330	1.00	1	03/28/2015 01:06	WG777304
p-Isopropyltoluene	U		0.350	1.00	1	03/28/2015 01:06	WG777304
2-Butanone (MEK)	U		3.90	10.0	1	03/28/2015 01:06	WG777304
Methylene Chloride	U		1.00	5.00	1	03/28/2015 01:06	WG777304
4-Methyl-2-pentanone (MIBK)	U		2.10	10.0	1	03/28/2015 01:06	WG777304
Methyl tert-butyl ether	U		0.370	1.00	1	03/28/2015 01:06	WG777304
Naphthalene	U		1.00	5.00	1	03/28/2015 01:06	WG777304
n-Propylbenzene	U		0.350	1.00	1	03/28/2015 01:06	WG777304
Styrene	U		0.310	1.00	1	03/28/2015 01:06	WG777304
1,1,1,2-Tetrachloroethane	U		0.380	1.00	1	03/28/2015 01:06	WG777304
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	03/28/2015 01:06	WG777304
1,1,2-Trichlorotrifluoroethane	U		0.300	1.00	1	03/28/2015 01:06	WG777304
Tetrachloroethene	U		0.370	1.00	1	03/28/2015 01:06	WG777304
Toluene	U		0.780	5.00	1	03/28/2015 01:06	WG777304
1,2,3-Trichlorobenzene	U		0.230	1.00	1	03/28/2015 01:06	WG777304

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,2,4-Trichlorobenzene	U		0.360	1.00	1	03/28/2015 01:06	WG777304
1,1,1-Trichloroethane	U		0.319	1.00	1	03/28/2015 01:06	WG777304
1,1,2-Trichloroethane	U		0.380	1.00	1	03/28/2015 01:06	WG777304
Trichloroethene	U		0.400	1.00	1	03/28/2015 01:06	WG777304
Trichlorofluoromethane	U		1.20	5.00	1	03/28/2015 01:06	WG777304
1,2,3-Trichloropropane	U		0.810	2.50	1	03/28/2015 01:06	WG777304
1,2,4-Trimethylbenzene	U		0.370	1.00	1	03/28/2015 01:06	WG777304
1,2,3-Trimethylbenzene	U		0.320	1.00	1	03/28/2015 01:06	WG777304
1,3,5-Trimethylbenzene	U		0.390	1.00	1	03/28/2015 01:06	WG777304
Vinyl chloride	U		0.260	1.00	1	03/28/2015 01:06	WG777304
Xylenes, Total	U		1.10	3.00	1	03/28/2015 01:06	WG777304
(S) Toluene-d8	*104*			*88.5-111*		*03/28/2015 01:06*	WG777304
(S) Dibromofluoromethane	*105*			*78.3-121*		*03/28/2015 01:06*	WG777304
(S) 4-Bromofluorobenzene	*91.2*			*71.0-126*		*03/28/2015 01:06*	WG777304

Method Blank (MB)

(MB) 03/20/15 17:24

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Mercury	U		0.000049	0.000200

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

(LCS) 03/20/15 17:26 • (LCSD) 03/20/15 19:44

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Mercury	0.00300	0.00271	0.00287	90	96	85-115			6	20

L754237-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 03/20/15 17:31 • (MS) 03/20/15 17:33 • (MSD) 03/20/15 17:35

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury	0.00300	ND	0.00277	0.00235	92	78	1	80-120		J6	17	20

Method Blank (MB)

(MB) 03/24/15 13:26

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Barium	U		0.0017	0.00500
Cadmium	U		0.0007	0.00500
Chromium	U		0.0014	0.0100
Lead	U		0.0019	0.00500
Selenium	U		0.0074	0.0200
Silver	U		0.0028	0.0100

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

(LCS) 03/24/15 13:30 • (LCSD) 03/24/15 13:35

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Barium	1.00	1.11	1.11	111	111	80-120			1	20
Cadmium	1.00	1.06	1.07	106	107	80-120			1	20
Chromium	1.00	1.04	1.05	104	105	80-120			1	20
Lead	1.00	1.04	1.05	104	105	80-120			1	20
Selenium	1.00	1.10	1.10	110	110	80-120			1	20
Silver	1.00	1.02	1.03	102	103	80-120			1	20

L754334-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 03/24/15 13:48 • (MS) 03/24/15 13:57 • (MSD) 03/24/15 14:02

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Barium	1.00	0.0167	1.13	1.12	111	110	1	75-125			1	20
Cadmium	1.00	ND	1.12	1.12	112	112	1	75-125			0	20
Chromium	1.00	0.000844	1.06	1.04	106	104	1	75-125			2	20
Lead	1.00	0.00598	1.07	1.06	107	105	1	75-125			1	20
Selenium	1.00	0.00996	1.24	1.23	123	122	1	75-125			1	20
Silver	1.00	0.000893	1.11	1.11	111	111	1	75-125			0	20

Method Blank (MB)

(MB) 03/23/15 10:39

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic	U		0.00025	0.00200

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

(LCS) 03/23/15 10:41 • (LCSD) 03/23/15 10:44

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Arsenic	0.0500	0.0486	0.0486	97	97	80-120			0	20

L754252-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 03/23/15 10:46 • (MS) 03/23/15 10:50 • (MSD) 03/23/15 10:52

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	0.0500	0.000329	0.0487	0.0542	97	108	1	75-125			11	20

Method Blank (MB)

(MB) 03/20/15 12:24

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0100	0.0500
Acrolein	U		0.00887	0.0250
Acrylonitrile	U		0.00187	0.0100
Benzene	U		0.000331	0.00100
Bromobenzene	U		0.000352	0.00100
Bromodichloromethane	U		0.000380	0.00100
Bromoform	U		0.000469	0.00100
Bromomethane	U		0.000866	0.00500
n-Butylbenzene	U		0.000361	0.00100
sec-Butylbenzene	U		0.000365	0.00100
tert-Butylbenzene	U		0.000399	0.00100
Carbon tetrachloride	U		0.000379	0.00100
Chlorobenzene	U		0.000348	0.00100
Chlorodibromomethane	U		0.000327	0.00100
Chloroethane	U		0.000453	0.00500
2-Chloroethyl vinyl ether	U		0.00301	0.0500
Chloroform	U		0.000324	0.00500
Chloromethane	U		0.000276	0.00250
2-Chlorotoluene	U		0.000375	0.00100
4-Chlorotoluene	U		0.000351	0.00100
1,2-Dibromo-3-Chloropropane	U		0.00133	0.00500
1,2-Dibromoethane	U		0.000381	0.00100
Dibromomethane	U		0.000346	0.00100
1,2-Dichlorobenzene	U		0.000349	0.00100
1,3-Dichlorobenzene	U		0.000220	0.00100
1,4-Dichlorobenzene	U		0.000274	0.00100
Dichlorodifluoromethane	U		0.000551	0.00500
1,1-Dichloroethane	U		0.000259	0.00100
1,2-Dichloroethane	U		0.000361	0.00100
1,1-Dichloroethene	U		0.000398	0.00100
cis-1,2-Dichloroethene	U		0.000260	0.00100
trans-1,2-Dichloroethene	U		0.000396	0.00100
1,2-Dichloropropane	U		0.000306	0.00100
1,1-Dichloropropene	U		0.000352	0.00100
1,3-Dichloropropane	U		0.000366	0.00100
cis-1,3-Dichloropropene	U		0.000418	0.00100
trans-1,3-Dichloropropene	U		0.000419	0.00100
2,2-Dichloropropane	U		0.000321	0.00100
Di-isopropyl ether	U		0.000320	0.00100

Method Blank (MB)

(MB) 03/20/15 12:24

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Ethylbenzene	U		0.000384	0.00100
Hexachloro-1,3-butadiene	U		0.000256	0.00100
Isopropylbenzene	U		0.000326	0.00100
p-Isopropyltoluene	U		0.000350	0.00100
2-Butanone (MEK)	U		0.00393	0.0100
Methylene Chloride	U		0.00100	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100
Methyl tert-butyl ether	U		0.000367	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.000349	0.00100
Styrene	U		0.000307	0.00100
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100
Tetrachloroethene	U		0.000372	0.00100
Toluene	U		0.000780	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000303	0.00100
1,2,3-Trichlorobenzene	U		0.000230	0.00100
1,2,4-Trichlorobenzene	U		0.000355	0.00100
1,1,1-Trichloroethane	U		0.000319	0.00100
1,1,2-Trichloroethane	U		0.000383	0.00100
Trichloroethene	U		0.000398	0.00100
Trichlorofluoromethane	U		0.00120	0.00500
1,2,3-Trichloropropane	U		0.000807	0.00100
1,2,3-Trimethylbenzene	U		0.000321	0.00100
1,2,4-Trimethylbenzene	U		0.000373	0.00100
1,3,5-Trimethylbenzene	U		0.000387	0.00100
Vinyl chloride	U		0.000259	0.00100
Xylenes, Total	U		0.00106	0.00300
(S) Toluene-d8	*109*			*88.5-111*
(S) Dibromofluoromethane	*100*			*78.3-121*
(S) 4-Bromofluorobenzene	*108*			*71.0-126*

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

(LCS) 03/20/15 11:13 • (LCSD) 03/20/15 11:36

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.125	0.0845	0.0843	67.6	67.4	35.6-163			0.310	23.9

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

(LCS) 03/20/15 11:13 • (LCSD) 03/20/15 11:36

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acrolein	0.125	0.172	0.173	138	139	10.0-190			0.440	28.1
Acrylonitrile	0.125	0.114	0.116	91.3	93.2	55.2-130			2.07	20
Benzene	0.0250	0.0243	0.0243	97.3	97.1	74.8-121			0.220	20
Bromobenzene	0.0250	0.0274	0.0270	110	108	77.5-116			1.45	20
Bromodichloromethane	0.0250	0.0274	0.0272	110	109	75.1-116			0.880	20
Bromoform	0.0250	0.0272	0.0269	109	107	67.5-130			1.19	20
Bromomethane	0.0250	0.0268	0.0261	107	104	49.9-162			2.67	20
n-Butylbenzene	0.0250	0.0286	0.0286	114	115	76.2-126			0.170	20
sec-Butylbenzene	0.0250	0.0282	0.0279	113	112	74.4-127			0.970	20
tert-Butylbenzene	0.0250	0.0274	0.0269	110	107	75.3-126			2.02	20
Carbon tetrachloride	0.0250	0.0282	0.0286	113	114	70.2-123			1.40	20
Chlorobenzene	0.0250	0.0280	0.0274	112	110	78.1-119			1.99	20
Chlorodibromomethane	0.0250	0.0253	0.0253	101	101	74.0-121			0.0600	20
Chloroethane	0.0250	0.0252	0.0249	101	99.8	61.7-135			1.15	20
2-Chloroethyl vinyl ether	0.125	0.144	0.148	116	118	43.8-150			2.44	20
Chloroform	0.0250	0.0241	0.0241	96.6	96.3	76.0-121			0.270	20
Chloromethane	0.0250	0.0241	0.0240	96.4	96.0	61.5-129			0.440	20
2-Chlorotoluene	0.0250	0.0275	0.0264	110	105	74.7-122			4.32	20
4-Chlorotoluene	0.0250	0.0283	0.0281	113	112	77.5-120			0.760	20
1,2-Dibromo-3-Chloropropane	0.0250	0.0248	0.0259	99.4	104	65.4-128			4.08	20
1,2-Dibromoethane	0.0250	0.0264	0.0260	106	104	76.6-121			1.66	20
Dibromomethane	0.0250	0.0261	0.0257	104	103	79.5-118			1.44	20
1,2-Dichlorobenzene	0.0250	0.0273	0.0268	109	107	78.4-117			1.77	20
1,3-Dichlorobenzene	0.0250	0.0275	0.0270	110	108	70.8-128			1.64	20
1,4-Dichlorobenzene	0.0250	0.0259	0.0256	104	102	78.8-115			1.25	20
Dichlorodifluoromethane	0.0250	0.0292	0.0290	117	116	54.8-135			0.730	20
1,1-Dichloroethane	0.0250	0.0247	0.0244	99.0	97.4	70.7-126			1.61	20
1,2-Dichloroethane	0.0250	0.0237	0.0235	94.7	93.9	68.8-124			0.890	20
1,1-Dichloroethene	0.0250	0.0266	0.0257	107	103	67.8-129			3.40	20
cis-1,2-Dichloroethene	0.0250	0.0246	0.0245	98.2	98.0	76.0-119			0.210	20
trans-1,2-Dichloroethene	0.0250	0.0257	0.0255	103	102	72.6-121			0.760	20
1,2-Dichloropropane	0.0250	0.0253	0.0247	101	98.7	76.5-119			2.33	20
1,1-Dichloropropene	0.0250	0.0263	0.0258	105	103	73.1-125			2.08	20
1,3-Dichloropropane	0.0250	0.0251	0.0249	100	99.6	77.4-117			0.580	20
cis-1,3-Dichloropropene	0.0250	0.0270	0.0265	108	106	78.2-120			1.88	20
trans-1,3-Dichloropropene	0.0250	0.0255	0.0251	102	101	74.3-123			1.27	20
2,2-Dichloropropane	0.0250	0.0270	0.0273	108	109	62.4-133			0.970	20
Di-isopropyl ether	0.0250	0.0245	0.0242	98.0	96.7	65.6-132			1.32	20
Ethylbenzene	0.0250	0.0273	0.0270	109	108	78.8-122			1.09	20

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

(LCS) 03/20/15 11:13 • (LCSD) 03/20/15 11:36

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Hexachloro-1,3-butadiene	0.0250	0.0272	0.0270	109	108	64.7-129			0.910	20
Isopropylbenzene	0.0250	0.0279	0.0274	112	110	78.6-132			1.84	20
p-Isopropyltoluene	0.0250	0.0281	0.0279	112	112	74.0-131			0.830	20
2-Butanone (MEK)	0.125	0.118	0.121	94.7	96.4	55.0-149			1.87	20
Methylene Chloride	0.0250	0.0236	0.0238	94.4	95.2	70.3-120			0.910	20
4-Methyl-2-pentanone (MIBK)	0.125	0.140	0.145	112	116	70.5-133			3.39	20
Methyl tert-butyl ether	0.0250	0.0242	0.0244	96.8	97.7	71.2-126			0.840	20
Naphthalene	0.0250	0.0261	0.0271	104	108	68.4-128			3.70	20
n-Propylbenzene	0.0250	0.0285	0.0279	114	112	78.2-122			2.01	20
Styrene	0.0250	0.0283	0.0280	113	112	80.4-126			0.950	20
1,1,1,2-Tetrachloroethane	0.0250	0.0266	0.0263	106	105	74.2-124			1.21	20
1,1,2,2-Tetrachloroethane	0.0250	0.0257	0.0259	103	104	70.7-122			0.980	20
Tetrachloroethene	0.0250	0.0294	0.0286	118	115	72.6-126			2.64	20
Toluene	0.0250	0.0257	0.0256	103	102	79.7-116			0.610	20
1,1,2-Trichlorotrifluoroethane	0.0250	0.0266	0.0262	106	105	67.2-143			1.41	20
1,2,3-Trichlorobenzene	0.0250	0.0272	0.0277	109	111	64.9-135			1.70	20
1,2,4-Trichlorobenzene	0.0250	0.0283	0.0284	113	114	69.7-136			0.320	20
1,1,1-Trichloroethane	0.0250	0.0257	0.0258	103	103	73.2-123			0.140	20
1,1,2-Trichloroethane	0.0250	0.0260	0.0254	104	102	77.7-118			2.03	20
Trichloroethene	0.0250	0.0263	0.0263	105	105	77.7-118			0.170	20
Trichlorofluoromethane	0.0250	0.0272	0.0266	109	106	63.5-135			2.25	20
1,2,3-Trichloropropane	0.0250	0.0250	0.0252	100	101	71.8-121			0.860	20
1,2,3-Trimethylbenzene	0.0250	0.0260	0.0259	104	103	72.3-116			0.450	20
1,2,4-Trimethylbenzene	0.0250	0.0263	0.0262	105	105	75.0-123			0.350	20
1,3,5-Trimethylbenzene	0.0250	0.0268	0.0263	107	105	75.6-124			2.00	20
Vinyl chloride	0.0250	0.0260	0.0259	104	104	65.9-128			0.180	20
Xylenes, Total	0.0750	0.0834	0.0816	111	109	78.7-121			2.22	20
(S) Toluene-d8				*111*	*110*	*88.5-111*				
(S) Dibromofluoromethane				*102*	*102*	*78.3-121*				
(S) 4-Bromofluorobenzene				*109*	*109*	*71.0-126*				

Method Blank (MB)

(MB) 03/27/15 21:26

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0100	0.0500
Acrolein	U		0.00887	0.0250
Acrylonitrile	U		0.00187	0.0100
Benzene	U		0.000331	0.00100
Bromobenzene	U		0.000352	0.00100
Bromodichloromethane	U		0.000380	0.00100
Bromoform	U		0.000469	0.00100
Bromomethane	U		0.000866	0.00500
n-Butylbenzene	U		0.000361	0.00100
sec-Butylbenzene	U		0.000365	0.00100
tert-Butylbenzene	U		0.000399	0.00100
Carbon tetrachloride	U		0.000379	0.00100
Chlorobenzene	U		0.000348	0.00100
Chlorodibromomethane	U		0.000327	0.00100
Chloroethane	U		0.000453	0.00500
2-Chloroethyl vinyl ether	U		0.00301	0.0500
Chloroform	U		0.000324	0.00500
Chloromethane	U		0.000276	0.00250
2-Chlorotoluene	U		0.000375	0.00100
4-Chlorotoluene	U		0.000351	0.00100
1,2-Dibromo-3-Chloropropane	U		0.00133	0.00500
1,2-Dibromoethane	U		0.000381	0.00100
Dibromomethane	U		0.000346	0.00100
1,2-Dichlorobenzene	U		0.000349	0.00100
1,3-Dichlorobenzene	U		0.000220	0.00100
1,4-Dichlorobenzene	U		0.000274	0.00100
Dichlorodifluoromethane	U		0.000551	0.00500
1,1-Dichloroethane	U		0.000259	0.00100
1,2-Dichloroethane	U		0.000361	0.00100
1,1-Dichloroethene	U		0.000398	0.00100
cis-1,2-Dichloroethene	U		0.000260	0.00100
trans-1,2-Dichloroethene	U		0.000396	0.00100
1,2-Dichloropropane	U		0.000306	0.00100
1,1-Dichloropropene	U		0.000352	0.00100
1,3-Dichloropropane	U		0.000366	0.00100
cis-1,3-Dichloropropene	U		0.000418	0.00100
trans-1,3-Dichloropropene	U		0.000419	0.00100
2,2-Dichloropropane	U		0.000321	0.00100
Di-isopropyl ether	U		0.000320	0.00100

Method Blank (MB)

(MB) 03/27/15 21:26

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Ethylbenzene	U		0.000384	0.00100
Hexachloro-1,3-butadiene	U		0.000256	0.00100
Isopropylbenzene	U		0.000326	0.00100
p-Isopropyltoluene	U		0.000350	0.00100
2-Butanone (MEK)	U		0.00393	0.0100
Methylene Chloride	U		0.00100	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100
Methyl tert-butyl ether	U		0.000367	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.000349	0.00100
Styrene	U		0.000307	0.00100
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100
Tetrachloroethene	U		0.000372	0.00100
Toluene	U		0.000780	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000303	0.00100
1,2,3-Trichlorobenzene	U		0.000230	0.00100
1,2,4-Trichlorobenzene	U		0.000355	0.00100
1,1,1-Trichloroethane	U		0.000319	0.00100
1,1,2-Trichloroethane	U		0.000383	0.00100
Trichloroethene	U		0.000398	0.00100
Trichlorofluoromethane	U		0.00120	0.00500
1,2,3-Trichloropropane	U		0.000807	0.00100
1,2,3-Trimethylbenzene	U		0.000321	0.00100
1,2,4-Trimethylbenzene	U		0.000373	0.00100
1,3,5-Trimethylbenzene	U		0.000387	0.00100
Vinyl chloride	U		0.000259	0.00100
Xylenes, Total	U		0.00106	0.00300
(S) Toluene-d8	*106*			*88.5-111*
(S) Dibromofluoromethane	*104*			*78.3-121*
(S) 4-Bromofluorobenzene	*89.8*			*71.0-126*

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

(LCS) 03/27/15 20:29 • (LCSD) 03/27/15 20:48

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.125	0.104	0.101	82.9	80.9	35.6-163			2.45	23.9

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

(LCS) 03/27/15 20:29 • (LCSD) 03/27/15 20:48

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acrolein	0.125	0.121	0.116	96.9	93.1	10.0-190			3.96	28.1
Acrylonitrile	0.125	0.111	0.108	89.0	86.2	55.2-130			3.21	20
Benzene	0.0250	0.0251	0.0248	100	99.2	74.8-121			1.14	20
Bromobenzene	0.0250	0.0232	0.0228	92.8	91.2	77.5-116			1.64	20
Bromodichloromethane	0.0250	0.0247	0.0248	99.0	99.1	75.1-116			0.120	20
Bromoform	0.0250	0.0246	0.0241	98.3	96.4	67.5-130			1.99	20
Bromomethane	0.0250	0.0359	0.0351	144	140	49.9-162			2.33	20
n-Butylbenzene	0.0250	0.0222	0.0219	88.7	87.7	76.2-126			1.06	20
sec-Butylbenzene	0.0250	0.0234	0.0224	93.7	89.5	74.4-127			4.57	20
tert-Butylbenzene	0.0250	0.0239	0.0227	95.8	90.8	75.3-126			5.33	20
Carbon tetrachloride	0.0250	0.0263	0.0240	105	96.1	70.2-123			8.87	20
Chlorobenzene	0.0250	0.0256	0.0251	102	100	78.1-119			1.82	20
Chlorodibromomethane	0.0250	0.0256	0.0249	102	99.4	74.0-121			2.90	20
Chloroethane	0.0250	0.0260	0.0265	104	106	61.7-135			2.12	20
2-Chloroethyl vinyl ether	0.125	0.164	0.155	131	124	43.8-150			5.26	20
Chloroform	0.0250	0.0253	0.0248	101	99.4	76.0-121			2.02	20
Chloromethane	0.0250	0.0278	0.0267	111	107	61.5-129			3.99	20
2-Chlorotoluene	0.0250	0.0247	0.0243	98.7	97.3	74.7-122			1.35	20
4-Chlorotoluene	0.0250	0.0234	0.0231	93.6	92.5	77.5-120			1.18	20
1,2-Dibromo-3-Chloropropane	0.0250	0.0182	0.0188	72.6	75.2	65.4-128			3.41	20
1,2-Dibromoethane	0.0250	0.0229	0.0225	91.5	90.0	76.6-121			1.68	20
Dibromomethane	0.0250	0.0248	0.0243	99.2	97.3	79.5-118			1.96	20
1,2-Dichlorobenzene	0.0250	0.0229	0.0229	91.5	91.4	78.4-117			0.110	20
1,3-Dichlorobenzene	0.0250	0.0242	0.0241	96.8	96.4	70.8-128			0.390	20
1,4-Dichlorobenzene	0.0250	0.0235	0.0233	93.9	93.2	78.8-115			0.740	20
Dichlorodifluoromethane	0.0250	0.0200	0.0191	79.9	76.5	54.8-135			4.36	20
1,1-Dichloroethane	0.0250	0.0275	0.0263	110	105	70.7-126			4.33	20
1,2-Dichloroethane	0.0250	0.0243	0.0238	97.4	95.2	68.8-124			2.23	20
1,1-Dichloroethene	0.0250	0.0256	0.0242	102	96.9	67.8-129			5.40	20
cis-1,2-Dichloroethene	0.0250	0.0251	0.0247	100	98.7	76.0-119			1.76	20
trans-1,2-Dichloroethene	0.0250	0.0232	0.0228	92.7	91.1	72.6-121			1.66	20
1,2-Dichloropropane	0.0250	0.0286	0.0279	114	112	76.5-119			2.54	20
1,1-Dichloropropene	0.0250	0.0247	0.0243	99.0	97.3	73.1-125			1.67	20
1,3-Dichloropropane	0.0250	0.0242	0.0237	96.7	94.9	77.4-117			1.95	20
cis-1,3-Dichloropropene	0.0250	0.0262	0.0262	105	105	78.2-120			0.190	20
trans-1,3-Dichloropropene	0.0250	0.0230	0.0239	92.1	95.6	74.3-123			3.70	20
2,2-Dichloropropane	0.0250	0.0310	0.0296	124	119	62.4-133			4.33	20
Di-isopropyl ether	0.0250	0.0294	0.0287	118	115	65.6-132			2.49	20
Ethylbenzene	0.0250	0.0245	0.0235	97.9	93.9	78.8-122			4.15	20

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

(LCS) 03/27/15 20:29 • (LCSD) 03/27/15 20:48

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Hexachloro-1,3-butadiene	0.0250	0.0257	0.0253	103	101	64.7-129			1.82	20
Isopropylbenzene	0.0250	0.0240	0.0234	96.2	93.7	78.6-132			2.65	20
p-Isopropyltoluene	0.0250	0.0238	0.0228	95.3	91.0	74.0-131			4.57	20
2-Butanone (MEK)	0.125	0.106	0.101	84.5	80.9	55.0-149			4.33	20
Methylene Chloride	0.0250	0.0247	0.0239	98.8	95.7	70.3-120			3.22	20
4-Methyl-2-pentanone (MIBK)	0.125	0.111	0.107	88.4	86.0	70.5-133			2.82	20
Methyl tert-butyl ether	0.0250	0.0222	0.0220	88.7	88.1	71.2-126			0.710	20
Naphthalene	0.0250	0.0189	0.0188	75.7	75.2	68.4-128			0.720	20
n-Propylbenzene	0.0250	0.0237	0.0230	94.7	92.1	78.2-122			2.78	20
Styrene	0.0250	0.0262	0.0260	105	104	80.4-126			0.830	20
1,1,1,2-Tetrachloroethane	0.0250	0.0272	0.0264	109	106	74.2-124			2.89	20
1,1,2,2-Tetrachloroethane	0.0250	0.0207	0.0201	82.9	80.3	70.7-122			3.15	20
Tetrachloroethene	0.0250	0.0251	0.0241	100	96.3	72.6-126			4.09	20
Toluene	0.0250	0.0246	0.0240	98.4	96.0	79.7-116			2.47	20
1,1,2-Trichlorotrifluoroethane	0.0250	0.0263	0.0245	105	97.9	67.2-143			7.16	20
1,2,3-Trichlorobenzene	0.0250	0.0234	0.0244	93.6	97.6	64.9-135			4.20	20
1,2,4-Trichlorobenzene	0.0250	0.0233	0.0238	93.3	95.0	69.7-136			1.78	20
1,1,1-Trichloroethane	0.0250	0.0254	0.0244	102	97.8	73.2-123			3.73	20
1,1,2-Trichloroethane	0.0250	0.0237	0.0224	94.9	89.4	77.7-118			5.97	20
Trichloroethene	0.0250	0.0255	0.0252	102	101	77.7-118			1.45	20
Trichlorofluoromethane	0.0250	0.0307	0.0296	123	118	63.5-135			3.86	20
1,2,3-Trichloropropane	0.0250	0.0216	0.0214	86.2	85.5	71.8-121			0.810	20
1,2,3-Trimethylbenzene	0.0250	0.0231	0.0231	92.5	92.3	72.3-116			0.140	20
1,2,4-Trimethylbenzene	0.0250	0.0231	0.0228	92.5	91.2	75.0-123			1.43	20
1,3,5-Trimethylbenzene	0.0250	0.0244	0.0233	97.5	93.1	75.6-124			4.60	20
Vinyl chloride	0.0250	0.0248	0.0239	99.3	95.6	65.9-128			3.76	20
Xylenes, Total	0.0750	0.0732	0.0715	97.7	95.3	78.7-121			2.43	20
(S) Toluene-d8				*104*	*103*	*88.5-111*				
(S) Dibromofluoromethane				*101*	*97.9*	*78.3-121*				
(S) 4-Bromofluorobenzene				*94.2*	*92.0*	*71.0-126*				

L754169-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 03/27/15 23:01 • (MS) 03/28/15 04:28 • (MSD) 03/28/15 04:46

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acetone	0.125	0.00132	0.150	0.138	119	109	1	10.0-130			8.17	27.9
Acrolein	0.125	ND	0.167	0.166	134	133	1	10.0-200			0.770	27.7

L754169-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 03/27/15 23:01 • (MS) 03/28/15 04:28 • (MSD) 03/28/15 04:46

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acrylonitrile	0.125	ND	0.158	0.154	127	123	1	49.4-133			2.90	25.3
Benzene	0.0250	ND	0.0251	0.0254	100	102	1	54.3-133			1.03	20
Bromobenzene	0.0250	ND	0.0214	0.0223	85.6	89.3	1	63.9-124			4.27	20
Bromodichloromethane	0.0250	ND	0.0264	0.0259	106	104	1	63.9-121			1.76	20
Bromoform	0.0250	ND	0.0269	0.0277	108	111	1	59.5-134			2.76	20.5
Bromomethane	0.0250	ND	0.0341	0.0352	136	141	1	41.7-155			3.36	21.9
n-Butylbenzene	0.0250	ND	0.0198	0.0209	79.2	83.5	1	62.7-140			5.18	20.3
sec-Butylbenzene	0.0250	ND	0.0197	0.0208	78.7	83.1	1	62.2-136			5.42	20.3
tert-Butylbenzene	0.0250	ND	0.0200	0.0206	79.8	82.4	1	63.3-134			3.20	21
Carbon tetrachloride	0.0250	ND	0.0232	0.0247	92.6	98.8	1	55.7-134			6.47	20
Chlorobenzene	0.0250	ND	0.0224	0.0229	89.7	91.8	1	67.0-125			2.32	20
Chlorodibromomethane	0.0250	ND	0.0251	0.0259	100	104	1	64.3-125			3.00	20.8
Chloroethane	0.0250	ND	0.0238	0.0245	95.4	98.0	1	51.5-136			2.71	40
2-Chloroethyl vinyl ether	0.125	ND	0.000692	0.000670	0.554	0.536	1	10.0-155	J6	J6	3.24	20
Chloroform	0.0250	ND	0.0251	0.0252	100	101	1	63.0-129			0.250	20
Chloromethane	0.0250	ND	0.0283	0.0289	113	116	1	42.4-135			2.06	20
2-Chlorotoluene	0.0250	ND	0.0208	0.0224	83.1	89.6	1	63.6-128			7.55	20
4-Chlorotoluene	0.0250	ND	0.0204	0.0211	81.4	84.2	1	65.7-127			3.38	20
1,2-Dibromo-3-Chloropropane	0.0250	ND	0.0253	0.0250	101	100	1	57.3-136			1.17	27
1,2-Dibromoethane	0.0250	ND	0.0242	0.0250	96.8	100	1	67.1-125			3.35	20
Dibromomethane	0.0250	0.000586	0.0277	0.0283	109	111	1	68.2-124			1.97	20
1,2-Dichlorobenzene	0.0250	ND	0.0230	0.0234	92.1	93.5	1	68.2-123			1.56	20
1,3-Dichlorobenzene	0.0250	ND	0.0214	0.0220	85.6	88.0	1	63.1-131			2.81	20
1,4-Dichlorobenzene	0.0250	ND	0.0221	0.0223	88.5	89.0	1	68.6-123			0.650	20
Dichlorodifluoromethane	0.0250	ND	0.0213	0.0220	85.3	88.2	1	40.6-144			3.28	20.2
1,1-Dichloroethane	0.0250	ND	0.0276	0.0279	110	112	1	58.5-132			0.950	20
1,2-Dichloroethane	0.0250	ND	0.0282	0.0274	113	110	1	60.0-126			2.69	20
1,1-Dichloroethene	0.0250	ND	0.0237	0.0244	94.6	97.5	1	51.1-140			3.00	20.2
cis-1,2-Dichloroethene	0.0250	ND	0.0250	0.0245	99.8	97.8	1	59.2-129			2.02	20
trans-1,2-Dichloroethene	0.0250	ND	0.0223	0.0230	89.0	91.9	1	56.5-129			3.18	20
1,2-Dichloropropane	0.0250	0.00150	0.0288	0.0288	109	109	1	64.2-123			0.120	20
1,1-Dichloropropene	0.0250	ND	0.0249	0.0254	99.5	102	1	57.3-136			2.25	20
1,3-Dichloropropane	0.0250	ND	0.0256	0.0257	103	103	1	67.9-121			0.260	20
cis-1,3-Dichloropropene	0.0250	ND	0.0264	0.0267	106	107	1	66.4-125			1.26	20
trans-1,3-Dichloropropene	0.0250	ND	0.0258	0.0264	103	106	1	64.1-128			2.54	20
2,2-Dichloropropane	0.0250	ND	0.0261	0.0262	104	105	1	50.5-144			0.390	21.9
Di-isopropyl ether	0.0250	ND	0.0320	0.0315	128	126	1	56.9-136			1.37	20
Ethylbenzene	0.0250	ND	0.0201	0.0210	80.6	84.0	1	61.4-133			4.13	20
Hexachloro-1,3-butadiene	0.0250	ND	0.0233	0.0243	93.0	97.1	1	55.1-136			4.34	23.6

L754169-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 03/27/15 23:01 • (MS) 03/28/15 04:28 • (MSD) 03/28/15 04:46

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Isopropylbenzene	0.0250	ND	0.0196	0.0210	78.6	83.9	1	66.8-141			6.57	20
p-Isopropyltoluene	0.0250	ND	0.0195	0.0209	78.2	83.7	1	63.2-139			6.82	20.4
2-Butanone (MEK)	0.125	ND	0.156	0.148	125	119	1	22.4-138			5.13	27
Methylene Chloride	0.0250	ND	0.0248	0.0245	99.2	98.1	1	58.1-122			1.19	20
4-Methyl-2-pentanone (MIBK)	0.125	ND	0.167	0.164	133	131	1	60.8-140			2.00	25.1
Methyl tert-butyl ether	0.0250	ND	0.0283	0.0270	113	108	1	57.7-134			4.89	20
Naphthalene	0.0250	ND	0.0249	0.0244	99.5	97.7	1	58.0-135			1.79	25.5
n-Propylbenzene	0.0250	ND	0.0198	0.0210	79.2	84.1	1	65.9-131			6.06	20
Styrene	0.0250	ND	0.0235	0.0239	93.9	95.4	1	66.8-133			1.68	20
1,1,1,2-Tetrachloroethane	0.0250	ND	0.0247	0.0253	98.7	101	1	64.0-128			2.67	20
1,1,2,2-Tetrachloroethane	0.0250	ND	0.0262	0.0255	105	102	1	56.0-132			2.71	22.2
Tetrachloroethene	0.0250	ND	0.0207	0.0215	82.8	86.0	1	53.0-139			3.74	20
Toluene	0.0250	ND	0.0231	0.0240	92.5	96.0	1	61.4-130			3.79	20
1,1,2-Trichlorotrifluoroethane	0.0250	ND	0.0238	0.0247	95.3	98.9	1	54.8-154			3.76	22.5
1,2,3-Trichlorobenzene	0.0250	ND	0.0261	0.0269	104	108	1	59.1-138			3.19	23.7
1,2,4-Trichlorobenzene	0.0250	ND	0.0242	0.0247	96.9	99.0	1	63.6-143			2.10	21.9
1,1,1-Trichloroethane	0.0250	ND	0.0240	0.0241	96.1	96.5	1	58.7-134			0.420	20
1,1,2-Trichloroethane	0.0250	ND	0.0238	0.0248	95.0	99.0	1	66.3-125			4.14	20
Trichloroethene	0.0250	ND	0.0234	0.0238	93.5	95.1	1	44.1-149			1.66	20
Trichlorofluoromethane	0.0250	ND	0.0297	0.0305	119	122	1	49.6-145			2.39	21.2
1,2,3-Trichloropropane	0.0250	ND	0.0244	0.0253	97.7	101	1	61.4-128			3.45	22.4
1,2,3-Trimethylbenzene	0.0250	ND	0.0221	0.0226	88.6	90.2	1	61.3-122			1.86	20
1,2,4-Trimethylbenzene	0.0250	ND	0.0200	0.0211	80.0	84.2	1	57.4-137			5.09	20
1,3,5-Trimethylbenzene	0.0250	ND	0.0206	0.0213	82.2	85.4	1	63.6-132			3.76	20.5
Vinyl chloride	0.0250	ND	0.0235	0.0241	94.0	96.5	1	47.8-137			2.57	20
Xylenes, Total	0.0750	ND	0.0622	0.0641	82.9	85.5	1	63.3-131			3.03	20
(S) Toluene-d8					*105*	*104*		*88.5-111*				
(S) Dibromofluoromethane					*106*	*101*		*78.3-121*				
(S) 4-Bromofluorobenzene					*89.6*	*90.9*		*71.0-126*				

Method Blank (MB)

(MB) 03/26/15 11:06

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0100	0.0500
Acrolein	U		0.00887	0.0250
Acrylonitrile	U		0.00187	0.0100
Benzene	U		0.000331	0.00100
Bromobenzene	U		0.000352	0.00100
Bromodichloromethane	U		0.000380	0.00100
Bromoform	U		0.000469	0.00100
Bromomethane	U		0.000866	0.00500
n-Butylbenzene	U		0.000361	0.00100
sec-Butylbenzene	U		0.000365	0.00100
tert-Butylbenzene	U		0.000399	0.00100
Carbon tetrachloride	U		0.000379	0.00100
Chlorobenzene	U		0.000348	0.00100
Chlorodibromomethane	U		0.000327	0.00100
Chloroethane	U		0.000453	0.00500
2-Chloroethyl vinyl ether	U		0.00301	0.0500
Chloroform	U		0.000324	0.00500
Chloromethane	U		0.000276	0.00250
2-Chlorotoluene	U		0.000375	0.00100
4-Chlorotoluene	U		0.000351	0.00100
1,2-Dibromo-3-Chloropropane	U		0.00133	0.00500
1,2-Dibromoethane	U		0.000381	0.00100
Dibromomethane	U		0.000346	0.00100
1,2-Dichlorobenzene	U		0.000349	0.00100
1,3-Dichlorobenzene	U		0.000220	0.00100
1,4-Dichlorobenzene	U		0.000274	0.00100
Dichlorodifluoromethane	U		0.000551	0.00500
1,1-Dichloroethane	U		0.000259	0.00100
1,2-Dichloroethane	U		0.000361	0.00100
1,1-Dichloroethene	U		0.000398	0.00100
cis-1,2-Dichloroethene	U		0.000260	0.00100
trans-1,2-Dichloroethene	U		0.000396	0.00100
1,2-Dichloropropane	U		0.000306	0.00100
1,1-Dichloropropene	U		0.000352	0.00100
1,3-Dichloropropane	U		0.000366	0.00100
cis-1,3-Dichloropropene	U		0.000418	0.00100
trans-1,3-Dichloropropene	U		0.000419	0.00100
2,2-Dichloropropane	U		0.000321	0.00100
Di-isopropyl ether	U		0.000320	0.00100

Method Blank (MB)

(MB) 03/26/15 11:06

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Ethylbenzene	U		0.000384	0.00100
Hexachloro-1,3-butadiene	U		0.000256	0.00100
Isopropylbenzene	U		0.000326	0.00100
p-Isopropyltoluene	U		0.000350	0.00100
2-Butanone (MEK)	U		0.00393	0.0100
Methylene Chloride	U		0.00100	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100
Methyl tert-butyl ether	U		0.000367	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.000349	0.00100
Styrene	U		0.000307	0.00100
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100
Tetrachloroethene	U		0.000372	0.00100
Toluene	U		0.000780	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000303	0.00100
1,2,3-Trichlorobenzene	U		0.000230	0.00100
1,2,4-Trichlorobenzene	U		0.000355	0.00100
1,1,1-Trichloroethane	U		0.000319	0.00100
1,1,2-Trichloroethane	U		0.000383	0.00100
Trichloroethene	U		0.000398	0.00100
Trichlorofluoromethane	U		0.00120	0.00500
1,2,3-Trichloropropane	U		0.000807	0.00100
1,2,3-Trimethylbenzene	U		0.000321	0.00100
1,2,4-Trimethylbenzene	U		0.000373	0.00100
1,3,5-Trimethylbenzene	U		0.000387	0.00100
Vinyl chloride	U		0.000259	0.00100
Xylenes, Total	U		0.00106	0.00300
(S) Toluene-d8	*108*			*88.5-111*
(S) Dibromofluoromethane	*96.3*			*78.3-121*
(S) 4-Bromofluorobenzene	*105*			*71.0-126*

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

(LCS) 03/26/15 08:30 • (LCSD) 03/26/15 08:50

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.125	0.0743	0.0748	59.4	59.8	35.6-163			0.750	23.9

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

(LCS) 03/26/15 08:30 • (LCSD) 03/26/15 08:50

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acrolein	0.125	0.0900	0.0892	72.0	71.4	10.0-190			0.800	28.1
Acrylonitrile	0.125	0.0885	0.0894	70.8	71.5	55.2-130			0.990	20
Benzene	0.0250	0.0250	0.0255	100	102	74.8-121			1.92	20
Bromobenzene	0.0250	0.0254	0.0255	102	102	77.5-116			0.540	20
Bromodichloromethane	0.0250	0.0234	0.0235	93.8	94.0	75.1-116			0.240	20
Bromoform	0.0250	0.0238	0.0238	95.2	95.0	67.5-130			0.230	20
Bromomethane	0.0250	0.0225	0.0233	89.8	93.4	49.9-162			3.89	20
n-Butylbenzene	0.0250	0.0289	0.0298	116	119	76.2-126			3.08	20
sec-Butylbenzene	0.0250	0.0302	0.0301	121	120	74.4-127			0.340	20
tert-Butylbenzene	0.0250	0.0295	0.0295	118	118	75.3-126			0.0700	20
Carbon tetrachloride	0.0250	0.0234	0.0241	93.6	96.4	70.2-123			2.91	20
Chlorobenzene	0.0250	0.0280	0.0284	112	114	78.1-119			1.29	20
Chlorodibromomethane	0.0250	0.0249	0.0253	99.6	101	74.0-121			1.61	20
Chloroethane	0.0250	0.0244	0.0251	97.6	100	61.7-135			2.77	20
2-Chloroethyl vinyl ether	0.125	0.0603	0.0587	48.2	46.9	43.8-150			2.75	20
Chloroform	0.0250	0.0233	0.0236	93.4	94.2	76.0-121			0.920	20
Chloromethane	0.0250	0.0220	0.0225	88.0	89.9	61.5-129			2.24	20
2-Chlorotoluene	0.0250	0.0287	0.0287	115	115	74.7-122			0.220	20
4-Chlorotoluene	0.0250	0.0280	0.0284	112	114	77.5-120			1.54	20
1,2-Dibromo-3-Chloropropane	0.0250	0.0215	0.0222	86.1	88.7	65.4-128			2.94	20
1,2-Dibromoethane	0.0250	0.0249	0.0250	99.7	99.9	76.6-121			0.220	20
Dibromomethane	0.0250	0.0225	0.0224	89.9	89.5	79.5-118			0.400	20
1,2-Dichlorobenzene	0.0250	0.0258	0.0260	103	104	78.4-117			1.02	20
1,3-Dichlorobenzene	0.0250	0.0274	0.0275	110	110	70.8-128			0.220	20
1,4-Dichlorobenzene	0.0250	0.0259	0.0263	104	105	78.8-115			1.47	20
Dichlorodifluoromethane	0.0250	0.0241	0.0252	96.3	101	54.8-135			4.42	20
1,1-Dichloroethane	0.0250	0.0237	0.0239	94.7	95.5	70.7-126			0.890	20
1,2-Dichloroethane	0.0250	0.0197	0.0198	78.7	79.1	68.8-124			0.510	20
1,1-Dichloroethene	0.0250	0.0238	0.0244	95.4	97.5	67.8-129			2.15	20
cis-1,2-Dichloroethene	0.0250	0.0257	0.0257	103	103	76.0-119			0.0800	20
trans-1,2-Dichloroethene	0.0250	0.0261	0.0263	105	105	72.6-121			0.530	20
1,2-Dichloropropane	0.0250	0.0231	0.0236	92.3	94.2	76.5-119			2.08	20
1,1-Dichloropropene	0.0250	0.0247	0.0256	99.0	103	73.1-125			3.52	20
1,3-Dichloropropane	0.0250	0.0232	0.0234	92.7	93.6	77.4-117			0.900	20
cis-1,3-Dichloropropene	0.0250	0.0239	0.0239	95.5	95.7	78.2-120			0.190	20
trans-1,3-Dichloropropene	0.0250	0.0236	0.0241	94.2	96.3	74.3-123			2.15	20
2,2-Dichloropropane	0.0250	0.0277	0.0280	111	112	62.4-133			1.11	20
Di-isopropyl ether	0.0250	0.0200	0.0201	80.1	80.2	65.6-132			0.180	20
Ethylbenzene	0.0250	0.0291	0.0295	116	118	78.8-122			1.28	20

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

(LCS) 03/26/15 08:30 • (LCSD) 03/26/15 08:50

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Hexachloro-1,3-butadiene	0.0250	0.0258	0.0265	103	106	64.7-129			2.96	20
Isopropylbenzene	0.0250	0.0294	0.0295	117	118	78.6-132			0.390	20
p-Isopropyltoluene	0.0250	0.0298	0.0302	119	121	74.0-131			1.24	20
2-Butanone (MEK)	0.125	0.0845	0.0846	67.6	67.7	55.0-149			0.150	20
Methylene Chloride	0.0250	0.0243	0.0242	97.0	96.7	70.3-120			0.400	20
4-Methyl-2-pentanone (MIBK)	0.125	0.0900	0.0882	72.0	70.5	70.5-133			2.12	20
Methyl tert-butyl ether	0.0250	0.0210	0.0208	84.0	83.3	71.2-126			0.840	20
Naphthalene	0.0250	0.0219	0.0224	87.4	89.5	68.4-128			2.33	20
n-Propylbenzene	0.0250	0.0286	0.0288	115	115	78.2-122			0.500	20
Styrene	0.0250	0.0299	0.0299	119	120	80.4-126			0.200	20
1,1,1,2-Tetrachloroethane	0.0250	0.0267	0.0265	107	106	74.2-124			0.850	20
1,1,2,2-Tetrachloroethane	0.0250	0.0240	0.0235	95.8	94.1	70.7-122			1.86	20
Tetrachloroethene	0.0250	0.0286	0.0290	114	116	72.6-126			1.47	20
Toluene	0.0250	0.0249	0.0254	99.7	101	79.7-116			1.78	20
1,1,2-Trichlorotrifluoroethane	0.0250	0.0279	0.0283	111	113	67.2-143			1.71	20
1,2,3-Trichlorobenzene	0.0250	0.0235	0.0238	93.8	95.1	64.9-135			1.37	20
1,2,4-Trichlorobenzene	0.0250	0.0248	0.0258	99.2	103	69.7-136			3.74	20
1,1,1-Trichloroethane	0.0250	0.0246	0.0250	98.3	99.9	73.2-123			1.66	20
1,1,2-Trichloroethane	0.0250	0.0255	0.0252	102	101	77.7-118			0.960	20
Trichloroethene	0.0250	0.0258	0.0266	103	107	77.7-118			3.29	20
Trichlorofluoromethane	0.0250	0.0236	0.0241	94.4	96.5	63.5-135			2.18	20
1,2,3-Trichloropropane	0.0250	0.0223	0.0219	89.0	87.4	71.8-121			1.79	20
1,2,3-Trimethylbenzene	0.0250	0.0262	0.0267	105	107	72.3-116			1.65	20
1,2,4-Trimethylbenzene	0.0250	0.0271	0.0273	108	109	75.0-123			0.700	20
1,3,5-Trimethylbenzene	0.0250	0.0285	0.0287	114	115	75.6-124			0.630	20
Vinyl chloride	0.0250	0.0235	0.0244	93.9	97.6	65.9-128			3.89	20
Xylenes, Total	0.0750	0.0845	0.0855	113	114	78.7-121			1.25	20
(S) Toluene-d8				*109*	*108*	*88.5-111*				
(S) Dibromofluoromethane				*98.0*	*98.1*	*78.3-121*				
(S) 4-Bromofluorobenzene				*107*	*104*	*71.0-126*				

L754328-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 03/26/15 12:24 • (MS) 03/26/15 10:08 • (MSD) 03/26/15 10:27

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acetone	0.125	0.00121	0.0841	0.0909	66.3	71.7	1	10.0-130			7.76	27.9
Acrolein	0.125	ND	0.104	0.112	83.6	89.7	1	10.0-200			7.10	27.7

L754328-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 03/26/15 12:24 • (MS) 03/26/15 10:08 • (MSD) 03/26/15 10:27

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acrylonitrile	0.125	ND	0.105	0.112	83.7	89.4	1	49.4-133			6.63	25.3
Benzene	0.0250	ND	0.0244	0.0284	97.4	114	1	54.3-133			15.3	20
Bromobenzene	0.0250	ND	0.0243	0.0270	97.1	108	1	63.9-124			10.8	20
Bromodichloromethane	0.0250	ND	0.0231	0.0254	92.2	102	1	63.9-121			9.79	20
Bromoform	0.0250	ND	0.0249	0.0269	99.5	108	1	59.5-134			7.91	20.5
Bromomethane	0.0250	ND	0.0214	0.0256	85.8	103	1	41.7-155			17.8	21.9
n-Butylbenzene	0.0250	ND	0.0242	0.0282	96.9	113	1	62.7-140			15.1	20.3
sec-Butylbenzene	0.0250	ND	0.0277	0.0326	111	130	1	62.2-136			16.2	20.3
tert-Butylbenzene	0.0250	ND	0.0281	0.0327	112	131	1	63.3-134			15.1	21
Carbon tetrachloride	0.0250	ND	0.0224	0.0278	89.7	111	1	55.7-134		J3	21.5	20
Chlorobenzene	0.0250	ND	0.0270	0.0301	108	120	1	67.0-125			10.7	20
Chlorodibromomethane	0.0250	ND	0.0250	0.0276	100	110	1	64.3-125			9.73	20.8
Chloroethane	0.0250	ND	0.0232	0.0290	92.7	116	1	51.5-136			22.3	40
2-Chloroethyl vinyl ether	0.125	ND	0.00222	0.00216	1.77	1.73	1	10.0-155	J6	J6	2.57	20
Chloroform	0.0250	ND	0.0231	0.0264	92.4	106	1	63.0-129			13.3	20
Chloromethane	0.0250	ND	0.0200	0.0249	80.0	99.7	1	42.4-135		J3	21.9	20
2-Chlorotoluene	0.0250	ND	0.0270	0.0304	108	122	1	63.6-128			12.0	20
4-Chlorotoluene	0.0250	ND	0.0254	0.0282	102	113	1	65.7-127			10.4	20
1,2-Dibromo-3-Chloropropane	0.0250	ND	0.0251	0.0269	100	108	1	57.3-136			6.94	27
1,2-Dibromoethane	0.0250	ND	0.0255	0.0275	102	110	1	67.1-125			7.79	20
Dibromomethane	0.0250	ND	0.0231	0.0249	92.4	99.6	1	68.2-124			7.53	20
1,2-Dichlorobenzene	0.0250	ND	0.0246	0.0275	98.4	110	1	68.2-123			11.3	20
1,3-Dichlorobenzene	0.0250	ND	0.0248	0.0276	99.3	110	1	63.1-131			10.7	20
1,4-Dichlorobenzene	0.0250	ND	0.0236	0.0263	94.4	105	1	68.6-123			11.0	20
Dichlorodifluoromethane	0.0250	ND	0.0232	0.0296	93.0	118	1	40.6-144		J3	24.1	20.2
1,1-Dichloroethane	0.0250	ND	0.0232	0.0271	92.9	108	1	58.5-132			15.4	20
1,2-Dichloroethane	0.0250	ND	0.0199	0.0218	79.5	87.1	1	60.0-126			9.13	20
1,1-Dichloroethene	0.0250	ND	0.0227	0.0282	90.9	113	1	51.1-140		J3	21.4	20.2
cis-1,2-Dichloroethene	0.0250	ND	0.0252	0.0287	101	115	1	59.2-129			12.9	20
trans-1,2-Dichloroethene	0.0250	ND	0.0248	0.0294	99.0	118	1	56.5-129			17.3	20
1,2-Dichloropropane	0.0250	ND	0.0231	0.0255	92.6	102	1	64.2-123			9.87	20
1,1-Dichloropropene	0.0250	ND	0.0233	0.0284	93.0	114	1	57.3-136		J3	20.1	20
1,3-Dichloropropane	0.0250	ND	0.0236	0.0258	94.5	103	1	67.9-121			8.75	20
cis-1,3-Dichloropropene	0.0250	ND	0.0228	0.0251	91.0	101	1	66.4-125			9.97	20
trans-1,3-Dichloropropene	0.0250	ND	0.0232	0.0255	92.7	102	1	64.1-128			9.65	20
2,2-Dichloropropane	0.0250	ND	0.0246	0.0310	98.6	124	1	50.5-144		J3	22.7	21.9
Di-isopropyl ether	0.0250	ND	0.0202	0.0220	80.8	88.1	1	56.9-136			8.56	20
Ethylbenzene	0.0250	ND	0.0277	0.0318	111	127	1	61.4-133			13.7	20
Hexachloro-1,3-butadiene	0.0250	ND	0.0222	0.0269	88.9	107	1	55.1-136			18.9	23.6

L754328-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 03/26/15 12:24 • (MS) 03/26/15 10:08 • (MSD) 03/26/15 10:27

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Isopropylbenzene	0.0250	ND	0.0277	0.0323	111	129	1	66.8-141			15.6	20
p-Isopropyltoluene	0.0250	ND	0.0269	0.0313	108	125	1	63.2-139			15.0	20.4
2-Butanone (MEK)	0.125	ND	0.0981	0.106	78.5	84.6	1	22.4-138			7.54	27
Methylene Chloride	0.0250	ND	0.0242	0.0274	96.9	109	1	58.1-122			12.2	20
4-Methyl-2-pentanone (MIBK)	0.125	ND	0.101	0.107	81.0	85.5	1	60.8-140			5.36	25.1
Methyl tert-butyl ether	0.0250	ND	0.0217	0.0236	86.6	94.5	1	57.7-134			8.77	20
Naphthalene	0.0250	ND	0.0227	0.0251	90.7	100	1	58.0-135			9.93	25.5
n-Propylbenzene	0.0250	ND	0.0260	0.0300	104	120	1	65.9-131			14.5	20
Styrene	0.0250	ND	0.0282	0.0314	113	126	1	66.8-133			10.7	20
1,1,1,2-Tetrachloroethane	0.0250	ND	0.0263	0.0290	105	116	1	64.0-128			9.86	20
1,1,2,2-Tetrachloroethane	0.0250	ND	0.0255	0.0278	102	111	1	56.0-132			8.47	22.2
Tetrachloroethene	0.0250	ND	0.0256	0.0305	103	122	1	53.0-139			17.3	20
Toluene	0.0250	ND	0.0241	0.0276	96.2	110	1	61.4-130			13.6	20
1,1,2-Trichlorotrifluoroethane	0.0250	ND	0.0268	0.0332	107	133	1	54.8-154			21.3	22.5
1,2,3-Trichlorobenzene	0.0250	ND	0.0215	0.0241	86.2	96.5	1	59.1-138			11.3	23.7
1,2,4-Trichlorobenzene	0.0250	ND	0.0212	0.0237	84.6	94.7	1	63.6-143			11.2	21.9
1,1,1-Trichloroethane	0.0250	ND	0.0236	0.0285	94.6	114	1	58.7-134			18.8	20
1,1,2-Trichloroethane	0.0250	ND	0.0261	0.0278	104	111	1	66.3-125			6.31	20
Trichloroethene	0.0250	ND	0.0245	0.0284	97.9	114	1	44.1-149			15.0	20
Trichlorofluoromethane	0.0250	ND	0.0222	0.0282	88.6	113	1	49.6-145		J3	23.9	21.2
1,2,3-Trichloropropane	0.0250	ND	0.0238	0.0261	95.1	104	1	61.4-128			9.17	22.4
1,2,3-Trimethylbenzene	0.0250	ND	0.0252	0.0286	101	115	1	61.3-122			12.7	20
1,2,4-Trimethylbenzene	0.0250	ND	0.0250	0.0283	100	113	1	57.4-137			12.5	20
1,3,5-Trimethylbenzene	0.0250	ND	0.0265	0.0304	106	122	1	63.6-132			13.6	20.5
Vinyl chloride	0.0250	ND	0.0219	0.0282	87.6	113	1	47.8-137		J3	25.3	20
Xylenes, Total	0.0750	ND	0.0801	0.0914	107	122	1	63.3-131			13.2	20
(S) Toluene-d8					*108*	*107*		*88.5-111*				
(S) Dibromofluoromethane					*99.1*	*99.8*		*78.3-121*				
(S) 4-Bromofluorobenzene					*106*	*106*		*71.0-126*				

Method Blank (MB)

(MB) 03/19/15 17:13

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
TPH C6 - C12	U		0.600	0.900
TPH C12 - C28	U		0.600	0.900
TPH C28 - C35	U		0.600	0.900
TPH C6 - C35	U		0.600	0.900
(S) o-Terphenyl	*96.9*			*70.0-130*

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

(LCS) 03/19/15 17:28 • (LCSD) 03/19/15 17:44

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
TPH C6 - C12	41.66	46.3	47.6	111	114	75.0-125			2.78	20
TPH C12 - C28	41.66	46.1	47.2	111	113	75.0-125			2.36	20
TPH C6 - C35	83.3	92.3	94.7	111	114	75.0-125			2.57	20
(S) o-Terphenyl				*96.7*	*96.6*	*70.0-130*				

Method Blank (MB)

(MB) 03/25/15 16:22

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
2,4-D	U		0.000162	0.00200
Dalapon	U		0.000131	0.00200
2,4-DB	U		0.000188	0.00200
Dicamba	U		0.000198	0.00200
Dichloroprop	U		0.000402	0.00200
Dinoseb	U		0.000431	0.00200
MCPA	U		0.0500	0.100
MCPP	U		0.0383	0.100
2,4,5-T	U		0.000211	0.00200
2,4,5-TP (Silvex)	U		0.000270	0.00200
(S) 2,4-Dichlorophenyl Acetic Acid	*73.6*			*28.2-146*

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

(LCS) 03/25/15 16:47 • (LCSD) 03/25/15 17:00

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
2,4,5-T	0.00500	0.00378	0.00374	75.6	74.8	50.0-121			1.11	26.5
2,4,5-TP (Silvex)	0.00500	0.00403	0.00404	80.6	80.8	46.3-127			0.300	29.5
2,4-D	0.00500	0.00362	0.00388	72.4	77.7	31.1-136			6.97	28.6
2,4-DB	0.00500	0.00352	0.00360	70.4	72.1	39.5-128			2.38	31.9
Dalapon	0.00500	0.00328	0.00340	65.6	68.0	36.6-132			3.58	29.2
Dicamba	0.00500	0.00432	0.00440	86.4	87.9	53.7-134			1.74	20
Dichloroprop	0.00500	0.00335	0.00346	66.9	69.3	42.5-109			3.48	26.8
Dinoseb	0.00500	0.00359	0.00358	71.7	71.5	42.5-112			0.260	21.3
MCPA	0.500	0.398	0.496	79.6	99.2	30.5-137			21.9	31.4
MCPP	0.500	0.399	0.416	79.8	83.3	33.2-148			4.30	25.2
(S) 2,4-Dichlorophenyl Acetic Acid				*77.1*	*79.3*	*28.2-146*				

Method Blank (MB)

(MB) 03/24/15 08:41

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Aldrin	U		0.00000813	0.0000500
Alpha BHC	U		0.0000166	0.0000500
Beta BHC	U		0.0000184	0.0000500
Delta BHC	U		0.0000197	0.0000500
Gamma BHC	U		0.0000176	0.0000500
4,4-DDD	U		0.0000170	0.0000500
4,4-DDE	U		0.0000164	0.0000500
4,4-DDT	U		0.0000177	0.0000500
Dieldrin	U		0.00000751	0.0000500
Endosulfan I	U		0.0000179	0.0000500
Endosulfan II	U		0.0000176	0.0000500
Endosulfan sulfate	U		0.0000196	0.0000500
Endrin	U		0.0000189	0.0000500
Endrin aldehyde	U		0.0000142	0.0000500
Endrin ketone	U		0.0000170	0.0000500
Heptachlor	U		0.0000108	0.0000500
Heptachlor epoxide	U		0.0000175	0.0000500
Hexachlorobenzene	U		0.0000134	0.0000500
Methoxychlor	U		0.0000193	0.0000500
Chlordane	U		0.0000977	0.00500
Toxaphene	U		0.000168	0.000500
(S) Decachlorobiphenyl	*83.2*			*10.0-156*
(S) Tetrachloro-m-xylene	*82.7*			*13.9-137*

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

(LCS) 03/24/15 09:18 • (LCSD) 03/24/15 09:30

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Aldrin	0.00100	0.000529	0.000530	52.9	53.0	10.0-120			0.160	33.9
Alpha BHC	0.00100	0.000932	0.000943	93.2	94.3	53.6-125			1.15	22.3
Beta BHC	0.00100	0.000914	0.000919	91.4	91.9	55.8-130			0.570	20.6
Delta BHC	0.00100	0.000913	0.000953	91.3	95.3	42.2-135			4.28	23.3
Gamma BHC	0.00100	0.000931	0.000939	93.1	93.9	54.7-125			0.940	21.1
4,4-DDD	0.00100	0.00103	0.000984	103	98.4	47.6-144			4.59	24.3
4,4-DDE	0.00100	0.000946	0.000901	94.6	90.1	45.0-124			4.88	25.7
4,4-DDT	0.00100	0.00112	0.00109	112	109	49.8-130			2.66	25.4
Dieldrin	0.00100	0.000965	0.000935	96.5	93.5	55.0-127			3.17	22.9

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

(LCS) 03/24/15 09:18 • (LCSD) 03/24/15 09:30

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Endosulfan I	0.00100	0.000940	0.000911	94.0	91.1	54.7-127			3.20	24.3
Endosulfan II	0.00100	0.000952	0.000916	95.2	91.6	53.1-135			3.83	23.5
Endosulfan sulfate	0.00100	0.000952	0.000912	95.2	91.2	51.5-132			4.28	26.3
Endrin	0.00100	0.000948	0.000917	94.8	91.7	50.1-131			3.33	29.1
Endrin aldehyde	0.00100	0.000917	0.000879	91.7	87.9	39.5-137			4.19	28.4
Endrin ketone	0.00100	0.00101	0.000951	101	95.1	53.5-139			5.79	28.4
Heptachlor	0.00100	0.000594	0.000623	59.4	62.3	20.7-127			4.74	30.5
Heptachlor epoxide	0.00100	0.000917	0.000900	91.7	90.0	56.4-124			1.79	23.1
Hexachlorobenzene	0.00100	0.000573	0.000598	57.3	59.8	26.7-114			4.29	27.6
Methoxychlor	0.00100	0.00126	0.00118	126	118	48.2-144			6.41	27.8
(S) Decachlorobiphenyl				*102*	*91.7*	*10.0-156*				
(S) Tetrachloro-m-xylene				*82.3*	*83.9*	*13.9-137*				

Method Blank (MB)

(MB) 03/20/15 08:56

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acenaphthene	U		0.000316	0.00100
Acenaphthylene	U		0.000309	0.00100
Anthracene	U		0.000291	0.00100
Benzidine	U		0.00432	0.0100
Benzo(a)anthracene	U		0.00000293	0.00100
Benzo(b)fluoranthene	U		0.00000212	0.00100
Benzo(k)fluoranthene	U		0.000355	0.00100
Benzo(g,h,i)perylene	U		0.00000227	0.00100
Benzo(a)pyrene	U		0.000340	0.00100
Bis(2-chlorethoxy)methane	U		0.000329	0.0100
Bis(2-chloroethyl)ether	U		0.00162	0.0100
Bis(2-chloroisopropyl)ether	U		0.000445	0.0100
4-Bromophenyl-phenylether	U		0.000335	0.0100
2-Chloronaphthalene	U		0.000330	0.00100
4-Chlorophenyl-phenylether	U		0.000303	0.0100
Chrysene	U		0.000332	0.00100
Dibenz(a,h)anthracene	U		0.000279	0.00100
3,3-Dichlorobenzidine	U		0.00202	0.0100
2,4-Dinitrotoluene	U		0.00165	0.0100
2,6-Dinitrotoluene	U		0.000279	0.0100
Fluoranthene	U		0.000310	0.00100
Fluorene	U		0.000323	0.00100
Hexachlorobenzene	U		0.000341	0.00100
Hexachloro-1,3-butadiene	U		0.000329	0.0100
Hexachlorocyclopentadiene	U		0.00233	0.0100
Hexachloroethane	U		0.000365	0.0100
Indeno(1,2,3-cd)pyrene	U		0.000279	0.00100
Isophorone	U		0.000272	0.0100
Naphthalene	U		0.000372	0.00100
Nitrobenzene	U		0.000367	0.0100
n-Nitrosodimethylamine	U		0.00126	0.0100
n-Nitrosodiphenylamine	U		0.000304	0.0100
n-Nitrosodi-n-propylamine	U		0.000403	0.0100
Phenanthrene	U		0.000366	0.00100
Benzylbutyl phthalate	U		0.000275	0.00300
Bis(2-ethylhexyl)phthalate	U		0.000709	0.00300
Di-n-butyl phthalate	U		0.000266	0.00300
Diethyl phthalate	U		0.000282	0.00300
Dimethyl phthalate	U		0.000283	0.00300

Method Blank (MB)

(MB) 03/20/15 08:56

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Di-n-octyl phthalate	U		0.000278	0.00300
Pyrene	U		0.000330	0.00100
1,2,4-Trichlorobenzene	U		0.000355	0.0100
4-Chloro-3-methylphenol	U		0.000263	0.0100
2-Chlorophenol	U		0.000283	0.0100
2,4-Dichlorophenol	U		0.000284	0.0100
2,4-Dimethylphenol	U		0.000624	0.0100
4,6-Dinitro-2-methylphenol	U		0.00262	0.0100
2,4-Dinitrophenol	U		0.00325	0.0100
2-Nitrophenol	U		0.000320	0.0100
4-Nitrophenol	U		0.00201	0.0100
Pentachlorophenol	U		0.000313	0.00100
Phenol	U		0.000334	0.0100
2,4,6-Trichlorophenol	U		0.000297	0.0100
(S) Nitrobenzene-d5	*51.8*			*21.8-123*
(S) 2-Fluorobiphenyl	*58.6*			*29.5-131*
(S) p-Terphenyl-d14	*54.2*			*29.3-137*
(S) Phenol-d5	*15.7*			*5.00-70.1*
(S) 2-Fluorophenol	*21.9*			*10.0-77.9*
(S) 2,4,6-Tribromophenol	*37.4*			*11.2-130*

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

(LCS) 03/20/15 08:09 • (LCSD) 03/20/15 08:33

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acenaphthene	0.0250	0.0160	0.0171	63.9	68.3	38.7-109			6.63	21.5
Acenaphthylene	0.0250	0.0154	0.0166	61.5	66.3	36.0-106			7.48	21
Anthracene	0.0250	0.0168	0.0173	67.0	69.2	43.6-113			3.22	18.8
Benzidine	0.0250	0.0132	0.0105	52.8	42.2	10.0-165			22.2	40
Benzo(a)anthracene	0.0250	0.0169	0.0174	67.6	69.5	51.2-112			2.80	20
Benzo(b)fluoranthene	0.0250	0.0183	0.0169	73.0	67.7	47.6-111			7.52	20
Benzo(k)fluoranthene	0.0250	0.0166	0.0182	66.3	72.9	49.4-114			9.60	20
Benzo(g,h,i)perylene	0.0250	0.0175	0.0176	69.9	70.5	45.2-117			0.900	20
Benzo(a)pyrene	0.0250	0.0172	0.0176	69.0	70.5	45.6-106			2.16	20
Bis(2-chlorethoxy)methane	0.0250	0.0159	0.0160	63.5	63.8	37.2-111			0.580	24.1
Bis(2-chloroethyl)ether	0.0250	0.0142	0.0143	56.8	57.2	22.6-108			0.710	27.9
Bis(2-chloroisopropyl)ether	0.0250	0.0161	0.0161	64.4	64.5	32.9-100			0.180	25.1

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

(LCS) 03/20/15 08:09 • (LCSD) 03/20/15 08:33

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
4-Bromophenyl-phenylether	0.0250	0.0187	0.0189	74.7	75.6	40.7-116			1.10	21
2-Chloronaphthalene	0.0250	0.0163	0.0168	65.2	67.3	33.6-105			3.05	23
4-Chlorophenyl-phenylether	0.0250	0.0167	0.0176	66.9	70.4	39.0-113			5.22	20.9
Chrysene	0.0250	0.0172	0.0171	68.8	68.4	54.6-120			0.580	20
Dibenz(a,h)anthracene	0.0250	0.0173	0.0174	69.1	69.7	42.8-118			0.830	20
3,3-Dichlorobenzidine	0.0250	0.0181	0.0176	72.3	70.5	27.2-142			2.53	22.3
2,4-Dinitrotoluene	0.0250	0.0188	0.0189	75.1	75.6	31.2-105			0.760	22
2,6-Dinitrotoluene	0.0250	0.0158	0.0175	63.3	69.9	30.6-106			9.90	23.1
Fluoranthene	0.0250	0.0176	0.0184	70.2	73.5	45.9-115			4.58	20
Fluorene	0.0250	0.0166	0.0171	66.5	68.3	41.0-112			2.54	20.2
Hexachlorobenzene	0.0250	0.0178	0.0186	71.1	74.5	38.5-116			4.60	20.1
Hexachloro-1,3-butadiene	0.0250	0.0162	0.0159	64.8	63.8	16.1-104			1.57	31.2
Hexachlorocyclopentadiene	0.0250	0.00792	0.00887	31.7	35.5	10.0-121			11.3	27.9
Hexachloroethane	0.0250	0.0131	0.0131	52.3	52.3	16.5-89.8			0.0400	30.7
Indeno(1,2,3-cd)pyrene	0.0250	0.0180	0.0176	72.0	70.3	45.0-116			2.39	20
Isophorone	0.0250	0.0167	0.0161	66.9	64.4	35.4-112			3.79	21.5
Naphthalene	0.0250	0.0146	0.0147	58.4	58.6	32.2-101			0.360	23.8
Nitrobenzene	0.0250	0.0162	0.0158	64.8	63.1	31.4-106			2.57	25.7
n-Nitrosodimethylamine	0.0250	0.00787	0.00732	31.5	29.3	10.0-80.1			7.18	37.5
n-Nitrosodiphenylamine	0.0250	0.0180	0.0179	72.0	71.6	44.4-113			0.560	20
n-Nitrosodi-n-propylamine	0.0250	0.0144	0.0149	57.6	59.5	33.2-106			3.19	23.7
Phenanthrene	0.0250	0.0167	0.0177	66.8	70.7	46.4-113			5.66	20
Benzylbutyl phthalate	0.0250	0.0158	0.0165	63.1	66.2	31.8-123			4.85	20.7
Bis(2-ethylhexyl)phthalate	0.0250	0.0167	0.0169	67.0	67.6	36.9-134			0.850	23.6
Di-n-butyl phthalate	0.0250	0.0163	0.0171	65.0	68.4	41.8-120			5.15	20.2
Diethyl phthalate	0.0250	0.0181	0.0186	72.5	74.6	36.5-129			2.83	20
Dimethyl phthalate	0.0250	0.0172	0.0181	68.8	72.3	35.3-128			4.95	20.8
Di-n-octyl phthalate	0.0250	0.0160	0.0162	63.8	64.7	39.7-112			1.44	21.1
Pyrene	0.0250	0.0163	0.0156	65.4	62.5	46.3-117			4.46	20
1,2,4-Trichlorobenzene	0.0250	0.0145	0.0143	58.0	57.0	22.9-96.1			1.73	27.5
4-Chloro-3-methylphenol	0.0250	0.0150	0.0138	60.2	55.1	35.7-100			8.92	22.9
2-Chlorophenol	0.0250	0.0124	0.0119	49.6	47.7	26.2-91.5			3.88	26.5
2,4-Dichlorophenol	0.0250	0.0149	0.0141	59.4	56.2	31.4-103			5.58	24.9
2,4-Dimethylphenol	0.0250	0.0167	0.0152	66.9	60.8	31.9-107			9.61	25.7
4,6-Dinitro-2-methylphenol	0.0250	0.0179	0.0179	71.6	71.6	18.4-148			0.0300	24.4
2,4-Dinitrophenol	0.0250	0.0121	0.0128	48.5	51.2	24.2-128			5.51	20.5
2-Nitrophenol	0.0250	0.0159	0.0141	63.7	56.2	25.9-106			12.5	26.9
4-Nitrophenol	0.0250	0.00336	0.00389	13.5	15.6	10.0-52.7			14.6	40
Pentachlorophenol	0.0250	0.0123	0.0134	49.3	53.4	10.0-97.4			8.05	35.1

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

(LCS) 03/20/15 08:09 • (LCSD) 03/20/15 08:33

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Phenol	0.0250	0.00479	0.00468	19.2	18.7	10.0-57.9			2.20	35
2,4,6-Trichlorophenol	0.0250	0.0147	0.0158	58.7	63.3	29.8-107			7.63	24.1
(S) Nitrobenzene-d5				*56.9*	*57.3*	*21.8-123*				
(S) 2-Fluorobiphenyl				*61.3*	*62.7*	*29.5-131*				
(S) p-Terphenyl-d14				*51.6*	*53.9*	*29.3-137*				
(S) Phenol-d5				*17.8*	*17.3*	*5.00-70.1*				
(S) 2-Fluorophenol				*24.6*	*23.5*	*10.0-77.9*				
(S) 2,4,6-Tribromophenol				*61.4*	*56.8*	*11.2-130*				

L754065-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 03/20/15 10:31 • (MS) 03/20/15 10:54 • (MSD) 03/20/15 11:18

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acenaphthene	0.0250	ND	0.0166	0.0177	66.2	70.6	1	30.7-124			6.39	22.6
Acenaphthylene	0.0250	ND	0.0160	0.0171	64.2	68.3	1	29.0-122			6.20	23.9
Anthracene	0.0250	ND	0.0171	0.0180	68.4	72.1	1	34.2-135			5.24	20
Benzidine	0.0250	ND	0.0115	0.00983	46.0	39.3	1	10.0-159			15.8	40
Benzo(a)anthracene	0.0250	ND	0.0169	0.0178	67.5	71.3	1	35.7-138			5.54	20
Benzo(b)fluoranthene	0.0250	ND	0.0180	0.0188	71.9	75.4	1	23.0-145			4.75	20
Benzo(k)fluoranthene	0.0250	ND	0.0156	0.0167	62.2	66.7	1	29.5-143			6.89	20
Benzo(g,h,i)perylene	0.0250	ND	0.0164	0.0171	65.6	68.4	1	10.0-148			4.20	21
Benzo(a)pyrene	0.0250	ND	0.0173	0.0181	69.2	72.2	1	23.3-135			4.32	20
Bis(2-chlorethoxy)methane	0.0250	ND	0.0160	0.0168	63.9	67.2	1	26.4-127			5.02	25.8
Bis(2-chloroethyl)ether	0.0250	ND	0.0146	0.0145	58.5	57.9	1	10.0-154			1.17	40
Bis(2-chloroisopropyl)ether	0.0250	ND	0.0154	0.0171	61.7	68.3	1	19.4-126			10.1	37.2
4-Bromophenyl-phenylether	0.0250	ND	0.0179	0.0196	71.7	78.5	1	34.3-135			8.98	23.2
2-Chloronaphthalene	0.0250	ND	0.0167	0.0177	66.9	70.9	1	29.7-114			5.86	24.2
4-Chlorophenyl-phenylether	0.0250	ND	0.0171	0.0178	68.4	71.3	1	35.6-127			4.25	20
Chrysene	0.0250	ND	0.0161	0.0171	64.4	68.4	1	37.0-145			6.06	20
Dibenz(a,h)anthracene	0.0250	ND	0.0150	0.0161	59.9	64.6	1	10.0-147			7.46	22.3
3,3-Dichlorobenzidine	0.0250	ND	0.0170	0.0177	67.9	70.9	1	10.0-162			4.31	26.9
2,4-Dinitrotoluene	0.0250	ND	0.0173	0.0189	69.1	75.7	1	16.2-135			9.11	20.6
2,6-Dinitrotoluene	0.0250	ND	0.0179	0.0188	71.6	75.3	1	25.2-124			4.96	22.2
Fluoranthene	0.0250	ND	0.0176	0.0192	70.5	76.7	1	37.1-139			8.50	20
Fluorene	0.0250	ND	0.0168	0.0182	67.3	72.6	1	10.0-162			7.63	20
Hexachlorobenzene	0.0250	ND	0.0185	0.0190	74.1	75.9	1	31.9-135			2.41	20
Hexachloro-1,3-butadiene	0.0250	ND	0.0160	0.0173	64.2	69.1	1	15.7-109			7.30	37.6

L754065-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 03/20/15 10:31 • (MS) 03/20/15 10:54 • (MSD) 03/20/15 11:18

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Hexachlorocyclopentadiene	0.0250	ND	0.00940	0.0101	37.6	40.2	1	10.0-123			6.83	27.8
Hexachloroethane	0.0250	ND	0.0148	0.0157	59.1	62.9	1	10.4-105			6.33	40
Indeno(1,2,3-cd)pyrene	0.0250	ND	0.0162	0.0167	64.8	66.9	1	10.0-145			3.26	20
Isophorone	0.0250	ND	0.0157	0.0177	62.9	70.8	1	25.9-133			11.7	22.9
Naphthalene	0.0250	ND	0.0153	0.0164	61.3	65.7	1	20.2-114			6.88	27.5
Nitrobenzene	0.0250	ND	0.0157	0.0174	62.9	69.8	1	23.1-121			10.3	29
n-Nitrosodimethylamine	0.0250	ND	0.00755	0.00772	30.2	30.9	1	10.0-94.5			2.13	40
n-Nitrosodiphenylamine	0.0250	ND	0.0169	0.0188	67.6	75.3	1	20.6-150			10.7	20
n-Nitrosodi-n-propylamine	0.0250	ND	0.0143	0.0150	57.1	60.2	1	23.9-125			5.16	29.7
Phenanthrene	0.0250	ND	0.0167	0.0184	66.9	73.5	1	33.0-139			9.45	20
Benzylbutyl phthalate	0.0250	ND	0.0162	0.0168	64.8	67.2	1	13.3-159			3.67	21.2
Bis(2-ethylhexyl)phthalate	0.0250	0.000645	0.0134	0.0136	51.1	51.9	1	15.5-152			1.36	27.6
Di-n-butyl phthalate	0.0250	0.000890	0.0172	0.0184	65.1	70.1	1	26.0-152			7.06	20
Diethyl phthalate	0.0250	ND	0.0176	0.0193	70.6	77.0	1	21.6-154			8.73	20
Dimethyl phthalate	0.0250	ND	0.0169	0.0180	67.7	72.0	1	10.0-157			6.16	20
Di-n-octyl phthalate	0.0250	0.000236	0.0136	0.0136	53.6	53.5	1	12.3-145			0.180	22.9
Pyrene	0.0250	ND	0.0158	0.0166	63.1	66.5	1	35.5-139			5.15	20
1,2,4-Trichlorobenzene	0.0250	ND	0.0151	0.0166	60.3	66.3	1	21.4-101			9.49	31.3
4-Chloro-3-methylphenol	0.0250	ND	0.0157	0.0154	62.8	61.4	1	35.7-110			2.24	20
2-Chlorophenol	0.0250	ND	0.0135	0.0137	53.9	54.8	1	13.9-105			1.73	32.4
2,4-Dichlorophenol	0.0250	ND	0.0174	0.0168	69.7	67.2	1	34.7-107			3.74	27.3
2,4-Dimethylphenol	0.0250	ND	0.00978	0.00949	39.1	38.0	1	10.0-152			2.97	35.4
4,6-Dinitro-2-methylphenol	0.0250	ND	0.0225	0.0233	89.8	93.2	1	10.0-151			3.74	37.4
2,4-Dinitrophenol	0.0250	ND	0.0201	0.0197	80.3	78.8	1	10.0-136			1.86	40
2-Nitrophenol	0.0250	ND	0.0182	0.0178	72.9	71.1	1	26.7-114			2.53	34
4-Nitrophenol	0.0250	ND	0.00628	0.00502	25.1	20.1	1	10.0-130			22.3	40
Pentachlorophenol	0.0250	ND	0.0118	0.0147	47.4	58.6	1	10.0-108			21.2	40
Phenol	0.0250	ND	0.00550	0.00505	22.0	20.2	1	10.0-64.1			8.65	40
2,4,6-Trichlorophenol	0.0250	ND	0.0191	0.0196	76.5	78.5	1	19.1-114			2.68	29.9
(S) Nitrobenzene-d5					*56.8*	*61.6*		*21.8-123*				
(S) 2-Fluorobiphenyl					*64.4*	*64.6*		*29.5-131*				
(S) p-Terphenyl-d14					*48.5*	*52.8*		*29.3-137*				
(S) Phenol-d5					*18.6*	*17.3*		*5.00-70.1*				
(S) 2-Fluorophenol					*29.0*	*28.4*		*10.0-77.9*				
(S) 2,4,6-Tribromophenol					*74.4*	*75.6*		*11.2-130*				

Laboratory Control Sample (LCS)

(LCS) 03/23/15 03:48

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acenaphthene	0.0250	0.0113	45.3	38.7-109	
Acenaphthylene	0.0250	0.0109	43.7	36.0-106	
Anthracene	0.0250	0.0114	45.6	43.6-113	
Benzidine	0.0250	0.00874	34.9	10.0-165	
Benzo(a)anthracene	0.0250	0.0115	46.1	51.2-112	J4
Benzo(b)fluoranthene	0.0250	0.0112	44.8	47.6-111	J4
Benzo(k)fluoranthene	0.0250	0.0122	48.7	49.4-114	J4
Benzo(g,h,i)perylene	0.0250	0.0116	46.4	45.2-117	
Benzo(a)pyrene	0.0250	0.0117	46.7	45.6-106	
Bis(2-chlorethoxy)methane	0.0250	0.0107	43.0	37.2-111	
Bis(2-chloroethyl)ether	0.0250	0.00916	36.6	22.6-108	
Bis(2-chloroisopropyl)ether	0.0250	0.0108	43.0	32.9-100	
4-Bromophenyl-phenylether	0.0250	0.0129	51.7	40.7-116	
2-Chloronaphthalene	0.0250	0.0115	46.0	33.6-105	
4-Chlorophenyl-phenylether	0.0250	0.0118	47.2	39.0-113	
Chrysene	0.0250	0.0117	46.6	54.6-120	J4
Dibenz(a,h)anthracene	0.0250	0.0115	46.1	42.8-118	
3,3-Dichlorobenzidine	0.0250	0.0115	46.1	27.2-142	
2,4-Dinitrotoluene	0.0250	0.0124	49.4	31.2-105	
2,6-Dinitrotoluene	0.0250	0.0115	46.1	30.6-106	
Fluoranthene	0.0250	0.0116	46.4	45.9-115	
Fluorene	0.0250	0.0115	46.0	41.0-112	
Hexachlorobenzene	0.0250	0.0128	51.1	38.5-116	
Hexachloro-1,3-butadiene	0.0250	0.00911	36.4	16.1-104	
Hexachlorocyclopentadiene	0.0250	0.00588	23.5	10.0-121	
Hexachloroethane	0.0250	0.00884	35.4	16.5-89.8	
Indeno(1,2,3-cd)pyrene	0.0250	0.0116	46.4	45.0-116	
Isophorone	0.0250	0.0112	44.9	35.4-112	
Naphthalene	0.0250	0.00986	39.5	32.2-101	
Nitrobenzene	0.0250	0.0107	42.8	31.4-106	
n-Nitrosodimethylamine	0.0250	0.00555	22.2	10.0-80.1	
n-Nitrosodiphenylamine	0.0250	0.0119	47.6	44.4-113	
n-Nitrosodi-n-propylamine	0.0250	0.00996	39.9	33.2-106	
Phenanthrene	0.0250	0.0113	45.1	46.4-113	J4
Benzylbutyl phthalate	0.0250	0.0119	47.7	31.8-123	
Bis(2-ethylhexyl)phthalate	0.0250	0.0134	53.6	36.9-134	
Di-n-butyl phthalate	0.0250	0.0111	44.3	41.8-120	
Diethyl phthalate	0.0250	0.0127	50.6	36.5-129	
Dimethyl phthalate	0.0250	0.0124	49.6	35.3-128	

Laboratory Control Sample (LCS)

(LCS) 03/23/15 03:48

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Di-n-octyl phthalate	0.0250	0.0107	42.8	39.7-112	
Pyrene	0.0250	0.0115	46.0	46.3-117	J4
1,2,4-Trichlorobenzene	0.0250	0.00926	37.1	22.9-96.1	
4-Chloro-3-methylphenol	0.0250	0.0117	46.8	35.7-100	
2-Chlorophenol	0.0250	0.0104	41.5	26.2-91.5	
2,4-Dichlorophenol	0.0250	0.0121	48.2	31.4-103	
2,4-Dimethylphenol	0.0250	0.0118	47.4	31.9-107	
4,6-Dinitro-2-methylphenol	0.0250	0.0174	69.7	18.4-148	
2,4-Dinitrophenol	0.0250	0.0125	50.1	24.2-128	
2-Nitrophenol	0.0250	0.0112	44.6	25.9-106	
4-Nitrophenol	0.0250	0.00451	18.1	10.0-52.7	
Pentachlorophenol	0.0250	0.0129	51.5	10.0-97.4	
Phenol	0.0250	0.00512	20.5	10.0-57.9	
2,4,6-Trichlorophenol	0.0250	0.0130	52.2	29.8-107	
(S) Nitrobenzene-d5			*38.4*	*21.8-123*	
(S) 2-Fluorobiphenyl			*41.3*	*29.5-131*	
(S) p-Terphenyl-d14			*37.3*	*29.3-137*	
(S) Phenol-d5			*19.1*	*5.00-70.1*	
(S) 2-Fluorophenol			*27.5*	*10.0-77.9*	
(S) 2,4,6-Tribromophenol			*49.2*	*11.2-130*	

Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND,U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.
SDL	Sample Detection Limit.
MQL	Method Quantitation Limit.
Unadj. MQL	Unadjusted Method Quantitation Limit.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Conneticut	PH-0197	North Carolina [1]	DW21704
Florida	E87487	North Carolina [2]	41
Georgia	NELAP	North Dakota	R-140
Georgia [1]	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky [1]	90010	South Dakota	n/a
Kentucky [2]	16	Tennessee [1 4]	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

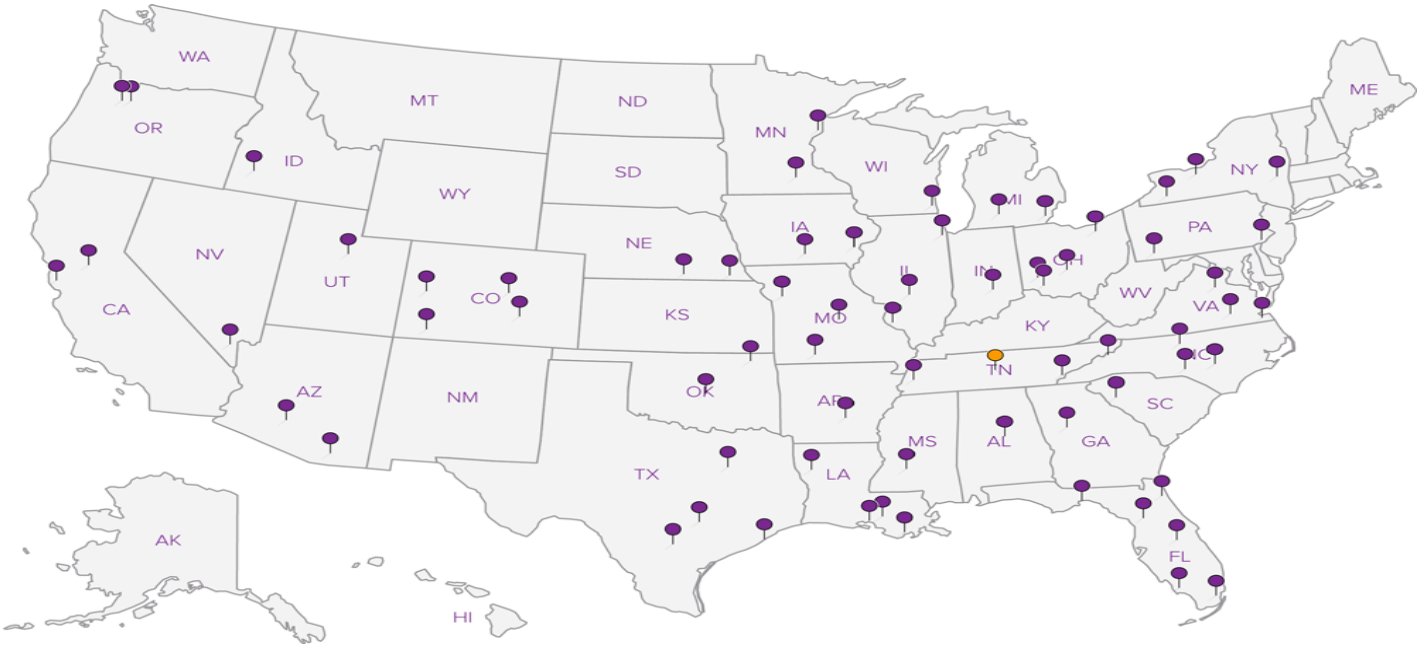
[1.] Drinking Water [2.] Underground Storage Tanks [3.] Aquatic Toxicity [4.] Chemical/Microbiological [5.] Mold [n/a] Accreditation not applicable

Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA	100789
Canada	1461.01	DOD	1461.01
EPA–Crypto	TN00003	USDA	S-67674

Our Locations

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



Terracon- Little Rock, AR

25809 I-30
Bryant, AR 72022

Billing Information:

Accounts Payable
25809 I-30
Bryant, AR 72022

Report to: **Merrick Rotenberry**

Email To: **mlrotenberry@terracon.com**

Project Description: **Grim Hotel - Texarkana, TX**

City/State Collected:

Phone: **501-847-9292**
Fax:

Client Project # **35107140**

Lab Project # **GENENLAR-35107140**

Collected by (print): Merrick Rotenberry

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed

Email? ___No X__Yes
FAX? ___No ___Yes

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	8081 100ml Amb-NoPres	8270 100ml Amb NoPres	MRCRA8 4ozClr-NoPres	MRCRA8 500mlHDPE-HNO3 L2	SV8081, SV8151 4ozClr-NoPres	SV8151 1L-Amb-No Pres	TPHTX 60mlAmb-HCl	TPHTX, SV8270, TS 4ozClr-NoPres	V8260 40ml/SYR/DI/MEOH	V8260 40mlAmb-HCl	Rem./Contaminant	Sample # (lab only)
1		SS				6			X		X			X	X			
Rinsate 2		GW		3-12-15	10:40	~~12~~	~~X~~	~~X~~		~~X~~		~~X~~	~~X~~			X		06
MW-2		GW		3-17-15	12:00	11	X	X		X		X	X			X		01
MW-4		GW			12:20	11	X	X		X		X	X			X		02
MW-3		GW			12:45	11	X	X		X		X	X			X		03
MW-13		GW			12:45	11	X	X		X		X	X			X		04
MW-1		GW			1:30	11	X	X		X		X	X			X		05
		GW				11	X	X		X		X	X			X		
		GW				2										X		
		GW				2										X		

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

Remarks: 6272 8619 1764
6272 8619 1755

pH _____ Temp _____

Flow _____ Other _____

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
	3-17-15	3:00	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____

Temp: 3.2 °C Bottles Received: 55/TB

Date: 03-18-15 Time: 0940

Hold #

Condition: (lab use only) JWG

COC Seal Intact: ___Y ___N ___NA

pH Checked: L2 NCF: X

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

ESC LABORATORY SCIENCES

YOUR LAB OF CHOICE

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L754320

1017

Acctnum: GENENLAR

Template: T100841

Prelogin: P502529

TSR: 134 - Mark W. Beasley

PB: 3-4-15 mw

Shipped Via: FedEX Ground

Matt Shacklock

ESC Lab Sciences
Non-Conformance Form

Login #:L754328	Client: GENELAR	Date:3/18/15	Evaluated by:James F

Non-Conformance (check applicable items)

	Sample Integrity		Chain of Custody Clarification		
	Parameter(s) past holding time	x	Login Clarification Needed		**If Broken Container:**
	Improper temperature		Chain of custody is incomplete		Insufficient packing material around container
	Improper container type		Please specify Metals requested.		Insufficient packing material inside cooler
	Improper preservation		Please specify TCLP requested.		Improper handling by carrier (FedEx / UPS / Courie
	Insufficient sample volume.		Received additional samples not listed on coc.		Sample was frozen
	Sample is biphasic.		Sample ids on containers do not match ids on coc		Container lid not intact
	Vials received with headspace.		Trip Blank not received.		**If no Chain of Custody:**
	Broken container		Client did not "X" analysis.		Received by:
	Broken container:		Chain of Custody is missing		Date/Time:
	Sufficient sample remains				Temp./Cont. Rec./pH:
					Carrier:
					Tracking#

Login Comments: Didn't receive Rinsate 2 sample

Client informed by:	Call	Email	Voice Mail	Date: 3/19/15	Time: 0900
TSR Initials: MB	Client Contact: Merrick Rotenbury				

Login Instructions:

Client notified

ANALYTICAL REPORT

March 27, 2015

Terracon- Little Rock, AR

Sample Delivery Group:	L753660
Samples Received:	03/14/2015
Project Number:	35107140
Description:	Grim Hotel - Texarkana, TX

Report To:

Merrick Rotenberry
25809 I-30
Bryant, AR 72022

Entire Report Reviewed By:

Mark W. Beasley
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

TABLE OF CONTENTS

B-2 1-2FT L753660-01 Solid

Collected by: Lea Nondorf | Collected date/time: 03/12/15 11:45 | Received date/time: 03/14/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Mercury by Method 7471A	WG776002	1	03/16/15 19:06	03/17/15 07:57	BRJ
Metals (ICP) by Method 6010B	WG776631	1	03/18/15 18:39	03/19/15 10:48	LTB
Pesticides (GC) by Method 8081	WG776101	1	03/18/15 18:38	03/19/15 19:55	LKD
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG776092	5	03/16/15 19:52	03/18/15 19:53	KMF
Semi-Volatile Organic Compounds (GC) by Method 8151	WG776018	1	03/20/15 18:43	03/21/15 20:16	KLM
Semi-Volatile Organic Compounds (GC) by Method TX 1005	WG776698	1	03/19/15 00:53	03/19/15 12:19	CLG
Total Solids by Method 2540 G-2011	WG776247	1	03/18/15 15:10	03/19/15 06:55	KDW
Volatile Organic Compounds (GC/MS) by Method 8260B	WG775839	1	03/14/15 23:06	03/21/15 14:47	MCB

B-2 16-17FT L753660-02 Solid

Collected by: Lea Nondorf | Collected date/time: 03/12/15 12:10 | Received date/time: 03/14/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Mercury by Method 7471A	WG776002	1	03/16/15 19:06	03/17/15 07:59	BRJ
Metals (ICP) by Method 6010B	WG776631	1	03/18/15 18:39	03/19/15 10:17	RDS
Pesticides (GC) by Method 8081	WG776101	1	03/18/15 18:38	03/19/15 20:09	LKD
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG776092	1	03/16/15 19:52	03/18/15 18:49	KMF
Semi-Volatile Organic Compounds (GC) by Method 8151	WG776018	1	03/20/15 18:43	03/21/15 20:29	KLM
Semi-Volatile Organic Compounds (GC) by Method TX 1005	WG776698	1	03/19/15 00:53	03/19/15 12:32	CLG
Total Solids by Method 2540 G-2011	WG776247	1	03/18/15 15:10	03/19/15 06:56	KDW
Volatile Organic Compounds (GC/MS) by Method 8260B	WG777645	1	03/23/15 22:45	03/24/15 02:40	MCB

B-4 1-2FT L753660-03 Solid

Collected by: Lea Nondorf | Collected date/time: 03/12/15 12:55 | Received date/time: 03/14/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Mercury by Method 7471A	WG776002	1	03/16/15 19:06	03/17/15 08:02	BRJ
Metals (ICP) by Method 6010B	WG776631	1	03/18/15 18:39	03/19/15 10:53	LTB
Pesticides (GC) by Method 8081	WG776101	1	03/18/15 18:38	03/19/15 20:50	LKD
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG776092	1	03/16/15 19:52	03/18/15 19:10	KMF
Semi-Volatile Organic Compounds (GC) by Method 8151	WG776018	1	03/20/15 18:43	03/21/15 20:41	KLM
Semi-Volatile Organic Compounds (GC) by Method TX 1005	WG776698	1	03/19/15 00:53	03/19/15 13:10	CLG
Total Solids by Method 2540 G-2011	WG776247	1	03/18/15 15:10	03/19/15 06:56	KDW
Volatile Organic Compounds (GC/MS) by Method 8260B	WG775839	1	03/14/15 23:06	03/21/15 15:28	MCB

B-4 8-9FT L753660-04 Solid

Collected by: Lea Nondorf | Collected date/time: 03/12/15 13:15 | Received date/time: 03/14/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Mercury by Method 7471A	WG776002	1	03/16/15 19:06	03/17/15 08:04	BRJ
Metals (ICP) by Method 6010B	WG776631	1	03/18/15 18:39	03/19/15 10:57	LTB
Pesticides (GC) by Method 8081	WG776101	1	03/18/15 18:38	03/19/15 21:04	LKD
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG776092	1	03/16/15 19:52	03/18/15 19:32	KMF
Semi-Volatile Organic Compounds (GC) by Method 8151	WG776018	1	03/20/15 18:43	03/21/15 20:54	KLM
Semi-Volatile Organic Compounds (GC) by Method TX 1005	WG776698	1	03/19/15 00:53	03/19/15 13:22	CLG
Total Solids by Method 2540 G-2011	WG776247	1	03/18/15 15:10	03/19/15 06:56	KDW
Volatile Organic Compounds (GC/MS) by Method 8260B	WG777645	1	03/23/15 22:45	03/24/15 02:57	MCB

B-3 1-2FT L753660-05 Solid

Collected by: Lea Nondorf | Collected date/time: 03/12/15 14:30 | Received date/time: 03/14/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Mercury by Method 7471A	WG776002	1	03/16/15 19:06	03/17/15 08:07	BRJ

B-3 1-2FT L753660-05 Solid

Collected by: Lea Nondorf | Collected date/time: 03/12/15 14:30 | Received date/time: 03/14/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Metals (ICP) by Method 6010B	WG776631	1	03/18/15 18:39	03/19/15 11:02	LTB
Pesticides (GC) by Method 8081	WG776101	1	03/18/15 18:38	03/19/15 21:18	LKD
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG776092	1	03/16/15 19:52	03/19/15 23:37	KMF
Semi-Volatile Organic Compounds (GC) by Method 8151	WG776018	1	03/20/15 18:43	03/21/15 21:07	KLM
Semi-Volatile Organic Compounds (GC) by Method TX 1005	WG776698	1	03/19/15 00:53	03/19/15 13:35	CLG
Total Solids by Method 2540 G-2011	WG776248	1	03/18/15 14:38	03/19/15 06:38	KDW
Volatile Organic Compounds (GC/MS) by Method 8260B	WG775839	1	03/14/15 23:06	03/21/15 16:08	MCB

B-3 12-13FT L753660-06 Solid

Collected by: Lea Nondorf | Collected date/time: 03/12/15 14:40 | Received date/time: 03/14/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Mercury by Method 7471A	WG776002	1	03/16/15 19:06	03/17/15 08:10	BRJ
Metals (ICP) by Method 6010B	WG776631	1	03/18/15 18:39	03/19/15 11:06	LTB
Pesticides (GC) by Method 8081	WG776101	1	03/18/15 18:38	03/19/15 21:32	LKD
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG776092	1	03/16/15 19:52	03/19/15 23:16	KMF
Semi-Volatile Organic Compounds (GC) by Method 8151	WG776018	1	03/20/15 18:43	03/21/15 21:19	KLM
Semi-Volatile Organic Compounds (GC) by Method TX 1005	WG776698	1	03/19/15 00:53	03/19/15 13:47	CLG
Total Solids by Method 2540 G-2011	WG776248	1	03/18/15 14:38	03/19/15 06:39	KDW
Volatile Organic Compounds (GC/MS) by Method 8260B	WG777645	1	03/23/15 22:45	03/24/15 03:14	MCB

RINSEATE 1 L753660-07 GW

Collected by: Lea Nondorf | Collected date/time: 03/12/15 15:30 | Received date/time: 03/14/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG775869	1	03/21/15 21:20	03/21/15 21:20	MCB

B-1 1-2FT L753660-08 Solid

Collected by: Lea Nondorf | Collected date/time: 03/13/15 08:30 | Received date/time: 03/14/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Mercury by Method 7471A	WG776002	1	03/16/15 19:06	03/17/15 08:17	BRJ
Metals (ICP) by Method 6010B	WG776631	1	03/18/15 18:39	03/19/15 11:11	LTB
Pesticides (GC) by Method 8081	WG776101	1	03/18/15 18:38	03/19/15 21:46	LKD
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG776092	1	03/16/15 19:52	03/19/15 22:54	KMF
Semi-Volatile Organic Compounds (GC) by Method 8151	WG776018	1	03/20/15 18:43	03/21/15 21:32	KLM
Semi-Volatile Organic Compounds (GC) by Method TX 1005	WG776698	1	03/19/15 00:53	03/19/15 14:00	CLG
Total Solids by Method 2540 G-2011	WG776248	1	03/18/15 14:38	03/19/15 06:39	KDW
Volatile Organic Compounds (GC/MS) by Method 8260B	WG775839	1	03/14/15 23:06	03/21/15 16:49	MCB

B-11 12-13FT L753660-09 Solid

Collected by: Lea Nondorf | Collected date/time: 03/13/15 09:00 | Received date/time: 03/14/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Mercury by Method 7471A	WG776002	1	03/16/15 19:06	03/17/15 08:20	BRJ
Metals (ICP) by Method 6010B	WG776631	1	03/18/15 18:39	03/19/15 11:15	LTB
Pesticides (GC) by Method 8081	WG776101	1	03/18/15 18:38	03/19/15 22:00	LKD
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG776092	1	03/16/15 19:52	03/19/15 22:32	KMF
Semi-Volatile Organic Compounds (GC) by Method 8151	WG776018	1	03/20/15 18:43	03/21/15 21:45	KLM
Semi-Volatile Organic Compounds (GC) by Method TX 1005	WG776698	1	03/19/15 00:53	03/19/15 14:12	CLG
Total Solids by Method 2540 G-2011	WG776248	1	03/18/15 14:38	03/19/15 06:40	KDW
Volatile Organic Compounds (GC/MS) by Method 8260B	WG777645	1	03/23/15 22:45	03/24/15 03:32	MCB

B-1 12-13 L753660-10 Solid

Collected by: Lea Nondorf
Collected date/time: 03/13/15 09:00
Received date/time: 03/14/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Mercury by Method 7471A	WG776002	1	03/16/15 19:06	03/17/15 08:22	BRJ
Metals (ICP) by Method 6010B	WG776631	1	03/18/15 18:39	03/19/15 11:38	LTB
Metals (ICP) by Method 6010B	WG776631	1	03/18/15 18:39	03/19/15 20:49	ST
Pesticides (GC) by Method 8081	WG776101	1	03/18/15 18:38	03/20/15 00:33	LKD
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG776092	1	03/16/15 19:52	03/19/15 22:10	KMF
Semi-Volatile Organic Compounds (GC) by Method 8151	WG776018	1	03/20/15 18:43	03/21/15 22:23	KLM
Semi-Volatile Organic Compounds (GC) by Method TX 1005	WG776698	1	03/19/15 00:53	03/19/15 14:25	CLG
Total Solids by Method 2540 G-2011	WG776248	1	03/18/15 14:38	03/19/15 06:40	KDW
Volatile Organic Compounds (GC/MS) by Method 8260B	WG777645	1	03/23/15 22:45	03/24/15 03:49	MCB

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Mark W. Beasley

Technical Service Representative

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.1		1	03/19/2015 06:55	WG776247

Mercury by Method 7471A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.115		0.00280	0.0200	1	03/17/2015 07:57	WG776002

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	2.71		0.650	2.00	1	03/19/2015 10:48	WG776631
Barium	89.3		0.170	0.500	1	03/19/2015 10:48	WG776631
Cadmium	0.319	J	0.0700	0.500	1	03/19/2015 10:48	WG776631
Chromium	10.5		0.140	1.00	1	03/19/2015 10:48	WG776631
Lead	373		0.190	0.500	1	03/19/2015 10:48	WG776631
Selenium	U		0.740	2.00	1	03/19/2015 10:48	WG776631
Silver	U		0.280	1.00	1	03/19/2015 10:48	WG776631

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0100	1.00	1	03/21/2015 14:47	WG775839
Acrylonitrile	U		0.00180	0.0100	1	03/21/2015 14:47	WG775839
Benzene	U		0.000270	0.00100	1	03/21/2015 14:47	WG775839
Bromobenzene	U		0.000280	0.00100	1	03/21/2015 14:47	WG775839
Bromodichloromethane	U		0.000250	0.00125	1	03/21/2015 14:47	WG775839
Bromoform	U		0.000420	0.00100	1	03/21/2015 14:47	WG775839
Bromomethane	U		0.00130	0.00500	1	03/21/2015 14:47	WG775839
n-Butylbenzene	U		0.000260	0.00100	1	03/21/2015 14:47	WG775839
sec-Butylbenzene	U		0.000200	0.00100	1	03/21/2015 14:47	WG775839
tert-Butylbenzene	U		0.000210	0.00100	1	03/21/2015 14:47	WG775839
Carbon tetrachloride	U		0.000330	0.00100	1	03/21/2015 14:47	WG775839
Chlorobenzene	U		0.000210	0.00100	1	03/21/2015 14:47	WG775839
Chlorodibromomethane	U		0.000370	0.00100	1	03/21/2015 14:47	WG775839
Chloroethane	U		0.000950	0.00500	1	03/21/2015 14:47	WG775839
2-Chloroethyl vinyl ether	U		0.00230	0.0500	1	03/21/2015 14:47	WG775839
Chloroform	U		0.000230	0.00500	1	03/21/2015 14:47	WG775839
Chloromethane	U		0.000380	0.00250	1	03/21/2015 14:47	WG775839
2-Chlorotoluene	U		0.000300	0.00100	1	03/21/2015 14:47	WG775839
4-Chlorotoluene	U		0.000240	0.00100	1	03/21/2015 14:47	WG775839
1,2-Dibromo-3-Chloropropane	U		0.00100	0.00500	1	03/21/2015 14:47	WG775839
1,2-Dibromoethane	U		0.000340	0.00100	1	03/21/2015 14:47	WG775839
Dibromomethane	U		0.000380	0.00100	1	03/21/2015 14:47	WG775839
1,2-Dichlorobenzene	U		0.000300	0.00100	1	03/21/2015 14:47	WG775839
1,3-Dichlorobenzene	U		0.000240	0.00100	1	03/21/2015 14:47	WG775839
1,4-Dichlorobenzene	U		0.000230	0.00100	1	03/21/2015 14:47	WG775839
Dichlorodifluoromethane	U		0.000710	0.00500	1	03/21/2015 14:47	WG775839
1,1-Dichloroethane	U		0.000200	0.00100	1	03/21/2015 14:47	WG775839
1,2-Dichloroethane	U		0.000260	0.00100	1	03/21/2015 14:47	WG775839
1,1-Dichloroethene	U		0.000300	0.00100	1	03/21/2015 14:47	WG775839
cis-1,2-Dichloroethene	U		0.000240	0.00100	1	03/21/2015 14:47	WG775839
trans-1,2-Dichloroethene	U		0.000260	0.00100	1	03/21/2015 14:47	WG775839
1,2-Dichloropropane	U		0.000360	0.00100	1	03/21/2015 14:47	WG775839
1,1-Dichloropropene	U		0.000320	0.00100	1	03/21/2015 14:47	WG775839
1,3-Dichloropropane	U		0.000210	0.00100	1	03/21/2015 14:47	WG775839

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
cis-1,3-Dichloropropene	U		0.000260	0.00100	1	03/21/2015 14:47	WG775839
trans-1,3-Dichloropropene	U		0.000270	0.00100	1	03/21/2015 14:47	WG775839
2,2-Dichloropropane	U		0.000280	0.00100	1	03/21/2015 14:47	WG775839
Di-isopropyl ether	U		0.000250	0.00100	1	03/21/2015 14:47	WG775839
Ethylbenzene	U		0.000300	0.00100	1	03/21/2015 14:47	WG775839
Hexachloro-1,3-butadiene	U		0.000340	0.00100	1	03/21/2015 14:47	WG775839
Isopropylbenzene	U		0.000240	0.00100	1	03/21/2015 14:47	WG775839
p-Isopropyltoluene	U		0.000200	0.00100	1	03/21/2015 14:47	WG775839
2-Butanone (MEK)	U		0.00470	0.0100	1	03/21/2015 14:47	WG775839
Methylene Chloride	U		0.00100	0.00500	1	03/21/2015 14:47	WG775839
4-Methyl-2-pentanone (MIBK)	U		0.00190	0.0100	1	03/21/2015 14:47	WG775839
Methyl tert-butyl ether	U		0.000210	0.00100	1	03/21/2015 14:47	WG775839
Naphthalene	U		0.00100	0.00500	1	03/21/2015 14:47	WG775839
n-Propylbenzene	U		0.000210	0.00100	1	03/21/2015 14:47	WG775839
Styrene	U		0.000230	0.00100	1	03/21/2015 14:47	WG775839
1,1,1,2-Tetrachloroethane	U		0.000260	0.00100	1	03/21/2015 14:47	WG775839
1,1,2,2-Tetrachloroethane	U		0.000360	0.00100	1	03/21/2015 14:47	WG775839
1,1,2-Trichlorotrifluoroethane	U		0.000360	0.00100	1	03/21/2015 14:47	WG775839
Tetrachloroethene	U		0.000280	0.00100	1	03/21/2015 14:47	WG775839
Toluene	U		0.000430	0.00500	1	03/21/2015 14:47	WG775839
1,2,3-Trichlorobenzene	U		0.000310	0.00100	1	03/21/2015 14:47	WG775839
1,2,4-Trichlorobenzene	U		0.000390	0.00100	1	03/21/2015 14:47	WG775839
1,1,1-Trichloroethane	U		0.000286	0.00100	1	03/21/2015 14:47	WG775839
1,1,2-Trichloroethane	U		0.000280	0.00100	1	03/21/2015 14:47	WG775839
Trichloroethene	U		0.000280	0.00100	1	03/21/2015 14:47	WG775839
Trichlorofluoromethane	U		0.000380	0.00500	1	03/21/2015 14:47	WG775839
1,2,3-Trichloropropane	U		0.000740	0.00250	1	03/21/2015 14:47	WG775839
1,2,4-Trimethylbenzene	U		0.000210	0.00100	1	03/21/2015 14:47	WG775839
1,2,3-Trimethylbenzene	U		0.000290	0.00100	1	03/21/2015 14:47	WG775839
1,3,5-Trimethylbenzene	U		0.000270	0.00100	1	03/21/2015 14:47	WG775839
Vinyl chloride	U		0.000290	0.00100	1	03/21/2015 14:47	WG775839
Xylenes, Total	U		0.000700	0.00300	1	03/21/2015 14:47	WG775839
(S) Toluene-d8	*108*			*88.5-111*		*03/21/2015 14:47*	WG775839
(S) Dibromofluoromethane	*102*			*78.3-121*		*03/21/2015 14:47*	WG775839
(S) 4-Bromofluorobenzene	*98.8*			*71.0-126*		*03/21/2015 14:47*	WG775839

Semi-Volatile Organic Compounds (GC) by Method TX 1005

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH C6 - C12	U		15.0	50.0	1	03/19/2015 12:19	WG776698
TPH C12 - C28	U		15.0	50.0	1	03/19/2015 12:19	WG776698
TPH C28 - C35	U		15.0	50.0	1	03/19/2015 12:19	WG776698
TPH C6 - C35	U		15.0	50.0	1	03/19/2015 12:19	WG776698
(S) o-Terphenyl	*99.6*			*70.0-130*		*03/19/2015 12:19*	WG776698

Semi-Volatile Organic Compounds (GC) by Method 8151

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
2,4-D	U		0.0230	0.0700	1	03/21/2015 20:16	WG776018
Dalapon	U		0.270	0.800	1	03/21/2015 20:16	WG776018
2,4-DB	U		0.0230	0.0700	1	03/21/2015 20:16	WG776018
Dicamba	U		0.0230	0.0700	1	03/21/2015 20:16	WG776018
Dichloroprop	U		0.0230	0.0700	1	03/21/2015 20:16	WG776018
Dinoseb	U		0.0230	0.0700	1	03/21/2015 20:16	WG776018
MCPA	U		2.20	6.50	1	03/21/2015 20:16	WG776018

Semi-Volatile Organic Compounds (GC) by Method 8151

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
MCPP	U		2.20	6.50	1	03/21/2015 20:16	WG776018
2,4,5-T	U		0.0230	0.0700	1	03/21/2015 20:16	WG776018
2,4,5-TP (Silvex)	U		0.0230	0.0700	1	03/21/2015 20:16	WG776018
(S) 2,4-Dichlorophenyl Acetic Acid	*67.0*			*23.5-129*		*03/21/2015 20:16*	WG776018

Pesticides (GC) by Method 8081

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Aldrin	U		0.00140	0.0200	1	03/19/2015 19:55	WG776101
Alpha BHC	U		0.00140	0.0200	1	03/19/2015 19:55	WG776101
Beta BHC	U		0.00160	0.0200	1	03/19/2015 19:55	WG776101
Delta BHC	U		0.00140	0.0200	1	03/19/2015 19:55	WG776101
Gamma BHC	U		0.00140	0.0200	1	03/19/2015 19:55	WG776101
Chlordane	U		0.0390	0.200	1	03/19/2015 19:55	WG776101
4,4-DDD	U		0.00160	0.0200	1	03/19/2015 19:55	WG776101
4,4-DDE	U		0.00150	0.0200	1	03/19/2015 19:55	WG776101
4,4-DDT	U		0.00200	0.0200	1	03/19/2015 19:55	WG776101
Dieldrin	U		0.00150	0.0200	1	03/19/2015 19:55	WG776101
Endosulfan I	U		0.00150	0.0200	1	03/19/2015 19:55	WG776101
Endosulfan II	U		0.00160	0.0200	1	03/19/2015 19:55	WG776101
Endosulfan sulfate	U		0.00150	0.0200	1	03/19/2015 19:55	WG776101
Endrin	U		0.00160	0.0200	1	03/19/2015 19:55	WG776101
Endrin aldehyde	U		0.00130	0.0200	1	03/19/2015 19:55	WG776101
Endrin ketone	U		0.00160	0.0200	1	03/19/2015 19:55	WG776101
Hexachlorobenzene	U		0.00120	0.0200	1	03/19/2015 19:55	WG776101
Heptachlor	U		0.00150	0.0200	1	03/19/2015 19:55	WG776101
Heptachlor epoxide	U		0.00160	0.0200	1	03/19/2015 19:55	WG776101
Methoxychlor	U		0.00180	0.0200	1	03/19/2015 19:55	WG776101
Toxaphene	U		0.0360	0.400	1	03/19/2015 19:55	WG776101
(S) Decachlorobiphenyl	*52.7*			*10.0-143*		*03/19/2015 19:55*	WG776101
(S) Tetrachloro-m-xylene	*89.0*			*29.2-144*		*03/19/2015 19:55*	WG776101

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.0320	0.165	5	03/18/2015 19:53	WG776092
Acenaphthylene	U		0.0340	0.165	5	03/18/2015 19:53	WG776092
Anthracene	U		0.0320	0.165	5	03/18/2015 19:53	WG776092
Benzidine	U		0.320	1.67	5	03/18/2015 19:53	WG776092
Benzo(a)anthracene	0.0479	J	0.0210	0.165	5	03/18/2015 19:53	WG776092
Benzo(b)fluoranthene	0.0705	J	0.0350	0.165	5	03/18/2015 19:53	WG776092
Benzo(k)fluoranthene	U		0.0290	0.165	5	03/18/2015 19:53	WG776092
Benzo(g,h,i)perylene	U		0.0360	0.165	5	03/18/2015 19:53	WG776092
Benzo(a)pyrene	0.0508	J	0.0270	0.165	5	03/18/2015 19:53	WG776092
Bis(2-chlorethoxy)methane	U		0.0380	1.67	5	03/18/2015 19:53	WG776092
Bis(2-chloroethyl)ether	U		0.0450	1.67	5	03/18/2015 19:53	WG776092
Bis(2-chloroisopropyl)ether	U		0.0380	1.67	5	03/18/2015 19:53	WG776092
4-Bromophenyl-phenylether	U		0.0570	1.67	5	03/18/2015 19:53	WG776092
2-Chloronaphthalene	U		0.0320	0.165	5	03/18/2015 19:53	WG776092
4-Chlorophenyl-phenylether	U		0.0310	1.67	5	03/18/2015 19:53	WG776092
Chrysene	0.0503	J	0.0280	0.165	5	03/18/2015 19:53	WG776092
Dibenz(a,h)anthracene	U		0.0410	0.165	5	03/18/2015 19:53	WG776092
3,3-Dichlorobenzidine	U		0.400	1.67	5	03/18/2015 19:53	WG776092
2,4-Dinitrotoluene	U		0.0300	1.67	5	03/18/2015 19:53	WG776092
2,6-Dinitrotoluene	U		0.0370	1.67	5	03/18/2015 19:53	WG776092

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Fluoranthene	0.0799	J	0.0250	0.165	5	03/18/2015 19:53	WG776092
Fluorene	U		0.0340	0.165	5	03/18/2015 19:53	WG776092
Hexachlorobenzene	U		0.0430	1.67	5	03/18/2015 19:53	WG776092
Hexachloro-1,3-butadiene	U		0.0500	1.67	5	03/18/2015 19:53	WG776092
Hexachlorocyclopentadiene	U		0.290	1.67	5	03/18/2015 19:53	WG776092
Hexachloroethane	U		0.0670	1.67	5	03/18/2015 19:53	WG776092
Indeno(1,2,3-cd)pyrene	U		0.0390	0.165	5	03/18/2015 19:53	WG776092
Isophorone	U		0.0260	1.67	5	03/18/2015 19:53	WG776092
Naphthalene	U		0.0440	0.165	5	03/18/2015 19:53	WG776092
Nitrobenzene	U		0.0350	1.67	5	03/18/2015 19:53	WG776092
n-Nitrosodimethylamine	U		0.320	1.67	5	03/18/2015 19:53	WG776092
n-Nitrosodiphenylamine	U		0.0300	1.67	5	03/18/2015 19:53	WG776092
n-Nitrosodi-n-propylamine	U		0.0450	1.67	5	03/18/2015 19:53	WG776092
Phenanthrene	0.0405	J	0.0260	0.165	5	03/18/2015 19:53	WG776092
Benzylbutyl phthalate	U		0.0520	1.67	5	03/18/2015 19:53	WG776092
Bis(2-ethylhexyl)phthalate	U		0.0600	1.67	5	03/18/2015 19:53	WG776092
Di-n-butyl phthalate	U		0.0540	1.67	5	03/18/2015 19:53	WG776092
Diethyl phthalate	U		0.0340	1.67	5	03/18/2015 19:53	WG776092
Dimethyl phthalate	U		0.0270	1.67	5	03/18/2015 19:53	WG776092
Di-n-octyl phthalate	U		0.0450	1.67	5	03/18/2015 19:53	WG776092
Pyrene	0.0648	J	0.0620	0.165	5	03/18/2015 19:53	WG776092
1,2,4-Trichlorobenzene	U		0.0440	1.67	5	03/18/2015 19:53	WG776092
4-Chloro-3-methylphenol	U		0.0240	1.67	5	03/18/2015 19:53	WG776092
2-Chlorophenol	U		0.0420	1.67	5	03/18/2015 19:53	WG776092
2,4-Dichlorophenol	U		0.0370	1.67	5	03/18/2015 19:53	WG776092
2,4-Dimethylphenol	U		0.240	1.67	5	03/18/2015 19:53	WG776092
4,6-Dinitro-2-methylphenol	U		0.620	1.67	5	03/18/2015 19:53	WG776092
2,4-Dinitrophenol	U		0.490	1.67	5	03/18/2015 19:53	WG776092
2-Nitrophenol	U		0.0650	1.67	5	03/18/2015 19:53	WG776092
4-Nitrophenol	U		0.260	1.67	5	03/18/2015 19:53	WG776092
Pentachlorophenol	U		0.240	1.67	5	03/18/2015 19:53	WG776092
Phenol	U		0.0350	1.67	5	03/18/2015 19:53	WG776092
2,4,6-Trichlorophenol	U		0.0390	1.67	5	03/18/2015 19:53	WG776092
(S) 2-Fluorophenol	*33.7*			*21.1-116*		*03/18/2015 19:53*	WG776092
(S) Phenol-d5	*54.3*			*26.3-121*		*03/18/2015 19:53*	WG776092
(S) Nitrobenzene-d5	*52.1*			*21.9-129*		*03/18/2015 19:53*	WG776092
(S) 2-Fluorobiphenyl	*60.7*			*34.9-129*		*03/18/2015 19:53*	WG776092
(S) 2,4,6-Tribromophenol	*18.1*	J2		*21.6-142*		*03/18/2015 19:53*	WG776092
(S) p-Terphenyl-d14	*53.2*			*21.5-128*		*03/18/2015 19:53*	WG776092

Sample Narrative:

8270C L753660-01 WG776092: Dilution due to precipitate in extract

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	79.1		1	03/19/2015 06:56	WG776247

Mercury by Method 7471A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.00280	0.0200	1	03/17/2015 07:59	WG776002

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	1.50	J	0.650	2.00	1	03/19/2015 10:17	WG776631
Barium	23.3		0.170	0.500	1	03/19/2015 10:17	WG776631
Cadmium	U		0.0700	0.500	1	03/19/2015 10:17	WG776631
Chromium	8.99		0.140	1.00	1	03/19/2015 10:17	WG776631
Lead	5.89		0.190	0.500	1	03/19/2015 10:17	WG776631
Selenium	1.32	J	0.740	2.00	1	03/19/2015 10:17	WG776631
Silver	U		0.280	1.00	1	03/19/2015 10:17	WG776631

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0100	1.00	1	03/24/2015 02:40	WG777645
Acrylonitrile	U		0.00180	0.0100	1	03/24/2015 02:40	WG777645
Benzene	U		0.000270	0.00100	1	03/24/2015 02:40	WG777645
Bromobenzene	U		0.000280	0.00100	1	03/24/2015 02:40	WG777645
Bromodichloromethane	U		0.000250	0.00125	1	03/24/2015 02:40	WG777645
Bromoform	U		0.000420	0.00100	1	03/24/2015 02:40	WG777645
Bromomethane	U		0.00130	0.00500	1	03/24/2015 02:40	WG777645
n-Butylbenzene	U		0.000260	0.00100	1	03/24/2015 02:40	WG777645
sec-Butylbenzene	U		0.000200	0.00100	1	03/24/2015 02:40	WG777645
tert-Butylbenzene	U		0.000210	0.00100	1	03/24/2015 02:40	WG777645
Carbon tetrachloride	U		0.000330	0.00100	1	03/24/2015 02:40	WG777645
Chlorobenzene	U		0.000210	0.00100	1	03/24/2015 02:40	WG777645
Chlorodibromomethane	U		0.000370	0.00100	1	03/24/2015 02:40	WG777645
Chloroethane	U		0.000950	0.00500	1	03/24/2015 02:40	WG777645
2-Chloroethyl vinyl ether	U		0.00230	0.0500	1	03/24/2015 02:40	WG777645
Chloroform	U		0.000230	0.00500	1	03/24/2015 02:40	WG777645
Chloromethane	U		0.000380	0.00250	1	03/24/2015 02:40	WG777645
2-Chlorotoluene	U		0.000300	0.00100	1	03/24/2015 02:40	WG777645
4-Chlorotoluene	U		0.000240	0.00100	1	03/24/2015 02:40	WG777645
1,2-Dibromo-3-Chloropropane	U		0.00100	0.00500	1	03/24/2015 02:40	WG777645
1,2-Dibromoethane	U		0.000340	0.00100	1	03/24/2015 02:40	WG777645
Dibromomethane	U		0.000380	0.00100	1	03/24/2015 02:40	WG777645
1,2-Dichlorobenzene	U		0.000300	0.00100	1	03/24/2015 02:40	WG777645
1,3-Dichlorobenzene	U		0.000240	0.00100	1	03/24/2015 02:40	WG777645
1,4-Dichlorobenzene	U		0.000230	0.00100	1	03/24/2015 02:40	WG777645
Dichlorodifluoromethane	U		0.000710	0.00500	1	03/24/2015 02:40	WG777645
1,1-Dichloroethane	U		0.000200	0.00100	1	03/24/2015 02:40	WG777645
1,2-Dichloroethane	U		0.000260	0.00100	1	03/24/2015 02:40	WG777645
1,1-Dichloroethene	U		0.000300	0.00100	1	03/24/2015 02:40	WG777645
cis-1,2-Dichloroethene	U		0.000240	0.00100	1	03/24/2015 02:40	WG777645
trans-1,2-Dichloroethene	U		0.000260	0.00100	1	03/24/2015 02:40	WG777645
1,2-Dichloropropane	U		0.000360	0.00100	1	03/24/2015 02:40	WG777645
1,1-Dichloropropene	U		0.000320	0.00100	1	03/24/2015 02:40	WG777645
1,3-Dichloropropane	U		0.000210	0.00100	1	03/24/2015 02:40	WG777645

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
cis-1,3-Dichloropropene	U		0.000260	0.00100	1	03/24/2015 02:40	WG777645
trans-1,3-Dichloropropene	U		0.000270	0.00100	1	03/24/2015 02:40	WG777645
2,2-Dichloropropane	U		0.000280	0.00100	1	03/24/2015 02:40	WG777645
Di-isopropyl ether	U		0.000250	0.00100	1	03/24/2015 02:40	WG777645
Ethylbenzene	U		0.000300	0.00100	1	03/24/2015 02:40	WG777645
Hexachloro-1,3-butadiene	U		0.000340	0.00100	1	03/24/2015 02:40	WG777645
Isopropylbenzene	U		0.000240	0.00100	1	03/24/2015 02:40	WG777645
p-Isopropyltoluene	U		0.000200	0.00100	1	03/24/2015 02:40	WG777645
2-Butanone (MEK)	U		0.00470	0.0100	1	03/24/2015 02:40	WG777645
Methylene Chloride	U		0.00100	0.00500	1	03/24/2015 02:40	WG777645
4-Methyl-2-pentanone (MIBK)	U		0.00190	0.0100	1	03/24/2015 02:40	WG777645
Methyl tert-butyl ether	U		0.000210	0.00100	1	03/24/2015 02:40	WG777645
Naphthalene	U		0.00100	0.00500	1	03/24/2015 02:40	WG777645
n-Propylbenzene	U		0.000210	0.00100	1	03/24/2015 02:40	WG777645
Styrene	U		0.000230	0.00100	1	03/24/2015 02:40	WG777645
1,1,1,2-Tetrachloroethane	U		0.000260	0.00100	1	03/24/2015 02:40	WG777645
1,1,2,2-Tetrachloroethane	U		0.000360	0.00100	1	03/24/2015 02:40	WG777645
1,1,2-Trichlorotrifluoroethane	U		0.000360	0.00100	1	03/24/2015 02:40	WG777645
Tetrachloroethene	U		0.000280	0.00100	1	03/24/2015 02:40	WG777645
Toluene	U		0.000430	0.00500	1	03/24/2015 02:40	WG777645
1,2,3-Trichlorobenzene	U		0.000310	0.00100	1	03/24/2015 02:40	WG777645
1,2,4-Trichlorobenzene	U		0.000390	0.00100	1	03/24/2015 02:40	WG777645
1,1,1-Trichloroethane	U		0.000286	0.00100	1	03/24/2015 02:40	WG777645
1,1,2-Trichloroethane	U		0.000280	0.00100	1	03/24/2015 02:40	WG777645
Trichloroethene	U		0.000280	0.00100	1	03/24/2015 02:40	WG777645
Trichlorofluoromethane	U		0.000380	0.00500	1	03/24/2015 02:40	WG777645
1,2,3-Trichloropropane	U		0.000740	0.00250	1	03/24/2015 02:40	WG777645
1,2,4-Trimethylbenzene	U		0.000210	0.00100	1	03/24/2015 02:40	WG777645
1,2,3-Trimethylbenzene	U		0.000290	0.00100	1	03/24/2015 02:40	WG777645
1,3,5-Trimethylbenzene	U		0.000270	0.00100	1	03/24/2015 02:40	WG777645
Vinyl chloride	U		0.000290	0.00100	1	03/24/2015 02:40	WG777645
Xylenes, Total	U		0.000700	0.00300	1	03/24/2015 02:40	WG777645
(S) Toluene-d8	*106*			*88.5-111*		*03/24/2015 02:40*	WG777645
(S) Dibromofluoromethane	*99.6*			*78.3-121*		*03/24/2015 02:40*	WG777645
(S) 4-Bromofluorobenzene	*103*			*71.0-126*		*03/24/2015 02:40*	WG777645

Semi-Volatile Organic Compounds (GC) by Method TX 1005

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH C6 - C12	U		15.0	50.0	1	03/19/2015 12:32	WG776698
TPH C12 - C28	U		15.0	50.0	1	03/19/2015 12:32	WG776698
TPH C28 - C35	U		15.0	50.0	1	03/19/2015 12:32	WG776698
TPH C6 - C35	U		15.0	50.0	1	03/19/2015 12:32	WG776698
(S) o-Terphenyl	*98.7*			*70.0-130*		*03/19/2015 12:32*	WG776698

Semi-Volatile Organic Compounds (GC) by Method 8151

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
2,4-D	U		0.0230	0.0700	1	03/21/2015 20:29	WG776018
Dalapon	U		0.270	0.800	1	03/21/2015 20:29	WG776018
2,4-DB	U		0.0230	0.0700	1	03/21/2015 20:29	WG776018
Dicamba	U		0.0230	0.0700	1	03/21/2015 20:29	WG776018
Dichloroprop	U		0.0230	0.0700	1	03/21/2015 20:29	WG776018
Dinoseb	U		0.0230	0.0700	1	03/21/2015 20:29	WG776018
MCPA	U		2.20	6.50	1	03/21/2015 20:29	WG776018

Semi-Volatile Organic Compounds (GC) by Method 8151

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
MCPP	U		2.20	6.50	1	03/21/2015 20:29	WG776018
2,4,5-T	U		0.0230	0.0700	1	03/21/2015 20:29	WG776018
2,4,5-TP (Silvex)	U		0.0230	0.0700	1	03/21/2015 20:29	WG776018
(S) 2,4-Dichlorophenyl Acetic Acid	*64.5*			*23.5-129*		*03/21/2015 20:29*	WG776018

Pesticides (GC) by Method 8081

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.00140	0.0200	1	03/19/2015 20:09	WG776101
Alpha BHC	U		0.00140	0.0200	1	03/19/2015 20:09	WG776101
Beta BHC	U		0.00160	0.0200	1	03/19/2015 20:09	WG776101
Delta BHC	U		0.00140	0.0200	1	03/19/2015 20:09	WG776101
Gamma BHC	U		0.00140	0.0200	1	03/19/2015 20:09	WG776101
Chlordane	U		0.0390	0.200	1	03/19/2015 20:09	WG776101
4,4-DDD	U		0.00160	0.0200	1	03/19/2015 20:09	WG776101
4,4-DDE	U		0.00150	0.0200	1	03/19/2015 20:09	WG776101
4,4-DDT	U		0.00200	0.0200	1	03/19/2015 20:09	WG776101
Dieldrin	U		0.00150	0.0200	1	03/19/2015 20:09	WG776101
Endosulfan I	U		0.00150	0.0200	1	03/19/2015 20:09	WG776101
Endosulfan II	U		0.00160	0.0200	1	03/19/2015 20:09	WG776101
Endosulfan sulfate	U		0.00150	0.0200	1	03/19/2015 20:09	WG776101
Endrin	U		0.00160	0.0200	1	03/19/2015 20:09	WG776101
Endrin aldehyde	U		0.00130	0.0200	1	03/19/2015 20:09	WG776101
Endrin ketone	U		0.00160	0.0200	1	03/19/2015 20:09	WG776101
Hexachlorobenzene	U		0.00120	0.0200	1	03/19/2015 20:09	WG776101
Heptachlor	U		0.00150	0.0200	1	03/19/2015 20:09	WG776101
Heptachlor epoxide	U		0.00160	0.0200	1	03/19/2015 20:09	WG776101
Methoxychlor	U		0.00180	0.0200	1	03/19/2015 20:09	WG776101
Toxaphene	U		0.0360	0.400	1	03/19/2015 20:09	WG776101
(S) Decachlorobiphenyl	*75.3*			*10.0-143*		*03/19/2015 20:09*	WG776101
(S) Tetrachloro-m-xylene	*101*			*29.2-144*		*03/19/2015 20:09*	WG776101

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acenaphthene	U		0.00640	0.0330	1	03/18/2015 18:49	WG776092
Acenaphthylene	U		0.00670	0.0330	1	03/18/2015 18:49	WG776092
Anthracene	U		0.00630	0.0330	1	03/18/2015 18:49	WG776092
Benzidine	U		0.0640	0.333	1	03/18/2015 18:49	WG776092
Benzo(a)anthracene	U		0.00430	0.0330	1	03/18/2015 18:49	WG776092
Benzo(b)fluoranthene	U		0.00700	0.0330	1	03/18/2015 18:49	WG776092
Benzo(k)fluoranthene	U		0.00580	0.0330	1	03/18/2015 18:49	WG776092
Benzo(g,h,i)perylene	U		0.00720	0.0330	1	03/18/2015 18:49	WG776092
Benzo(a)pyrene	U		0.00550	0.0330	1	03/18/2015 18:49	WG776092
Bis(2-chlorethoxy)methane	U		0.00770	0.333	1	03/18/2015 18:49	WG776092
Bis(2-chloroethyl)ether	U		0.00900	0.333	1	03/18/2015 18:49	WG776092
Bis(2-chloroisopropyl)ether	U		0.00760	0.333	1	03/18/2015 18:49	WG776092
4-Bromophenyl-phenylether	U		0.0110	0.333	1	03/18/2015 18:49	WG776092
2-Chloronaphthalene	U		0.00640	0.0330	1	03/18/2015 18:49	WG776092
4-Chlorophenyl-phenylether	U		0.00630	0.333	1	03/18/2015 18:49	WG776092
Chrysene	U		0.00560	0.0330	1	03/18/2015 18:49	WG776092
Dibenz(a,h)anthracene	U		0.00820	0.0330	1	03/18/2015 18:49	WG776092
3,3-Dichlorobenzidine	U		0.0790	0.333	1	03/18/2015 18:49	WG776092
2,4-Dinitrotoluene	U		0.00610	0.333	1	03/18/2015 18:49	WG776092
2,6-Dinitrotoluene	U		0.00740	0.333	1	03/18/2015 18:49	WG776092

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Fluoranthene	U		0.00500	0.0330	1	03/18/2015 18:49	WG776092
Fluorene	U		0.00680	0.0330	1	03/18/2015 18:49	WG776092
Hexachlorobenzene	U		0.00860	0.333	1	03/18/2015 18:49	WG776092
Hexachloro-1,3-butadiene	U		0.0100	0.333	1	03/18/2015 18:49	WG776092
Hexachlorocyclopentadiene	U		0.0590	0.333	1	03/18/2015 18:49	WG776092
Hexachloroethane	U		0.0130	0.333	1	03/18/2015 18:49	WG776092
Indeno(1,2,3-cd)pyrene	U		0.00770	0.0330	1	03/18/2015 18:49	WG776092
Isophorone	U		0.00520	0.333	1	03/18/2015 18:49	WG776092
Naphthalene	U		0.00890	0.0330	1	03/18/2015 18:49	WG776092
Nitrobenzene	U		0.00700	0.333	1	03/18/2015 18:49	WG776092
n-Nitrosodimethylamine	U		0.0650	0.333	1	03/18/2015 18:49	WG776092
n-Nitrosodiphenylamine	U		0.00590	0.333	1	03/18/2015 18:49	WG776092
n-Nitrosodi-n-propylamine	U		0.00910	0.333	1	03/18/2015 18:49	WG776092
Phenanthrene	U		0.00530	0.0330	1	03/18/2015 18:49	WG776092
Benzylbutyl phthalate	U		0.0100	0.333	1	03/18/2015 18:49	WG776092
Bis(2-ethylhexyl)phthalate	U		0.0120	0.333	1	03/18/2015 18:49	WG776092
Di-n-butyl phthalate	U		0.0110	0.333	1	03/18/2015 18:49	WG776092
Diethyl phthalate	U		0.00690	0.333	1	03/18/2015 18:49	WG776092
Dimethyl phthalate	U		0.00540	0.333	1	03/18/2015 18:49	WG776092
Di-n-octyl phthalate	U		0.00910	0.333	1	03/18/2015 18:49	WG776092
Pyrene	U		0.0120	0.0330	1	03/18/2015 18:49	WG776092
1,2,4-Trichlorobenzene	U		0.00880	0.333	1	03/18/2015 18:49	WG776092
4-Chloro-3-methylphenol	U		0.00480	0.333	1	03/18/2015 18:49	WG776092
2-Chlorophenol	U		0.00830	0.333	1	03/18/2015 18:49	WG776092
2,4-Dichlorophenol	U		0.00750	0.333	1	03/18/2015 18:49	WG776092
2,4-Dimethylphenol	U		0.0470	0.333	1	03/18/2015 18:49	WG776092
4,6-Dinitro-2-methylphenol	U		0.120	0.333	1	03/18/2015 18:49	WG776092
2,4-Dinitrophenol	U		0.0980	0.333	1	03/18/2015 18:49	WG776092
2-Nitrophenol	U		0.0130	0.333	1	03/18/2015 18:49	WG776092
4-Nitrophenol	U		0.0520	0.333	1	03/18/2015 18:49	WG776092
Pentachlorophenol	U		0.0480	0.333	1	03/18/2015 18:49	WG776092
Phenol	U		0.00700	0.333	1	03/18/2015 18:49	WG776092
2,4,6-Trichlorophenol	U		0.00780	0.333	1	03/18/2015 18:49	WG776092
(S) 2-Fluorophenol	*57.5*			*21.1-116*		*03/18/2015 18:49*	WG776092
(S) Phenol-d5	*59.3*			*26.3-121*		*03/18/2015 18:49*	WG776092
(S) Nitrobenzene-d5	*59.9*			*21.9-129*		*03/18/2015 18:49*	WG776092
(S) 2-Fluorobiphenyl	*67.3*			*34.9-129*		*03/18/2015 18:49*	WG776092
(S) 2,4,6-Tribromophenol	*64.1*			*21.6-142*		*03/18/2015 18:49*	WG776092
(S) p-Terphenyl-d14	*62.0*			*21.5-128*		*03/18/2015 18:49*	WG776092

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	78.7		1	03/19/2015 06:56	WG776247

Mercury by Method 7471A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.412		0.00280	0.0200	1	03/17/2015 08:02	WG776002

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	8.88		0.650	2.00	1	03/19/2015 10:53	WG776631
Barium	82.8		0.170	0.500	1	03/19/2015 10:53	WG776631
Cadmium	0.367	J	0.0700	0.500	1	03/19/2015 10:53	WG776631
Chromium	12.7		0.140	1.00	1	03/19/2015 10:53	WG776631
Lead	1400		0.190	0.500	1	03/19/2015 10:53	WG776631
Selenium	0.764	J	0.740	2.00	1	03/19/2015 10:53	WG776631
Silver	U		0.280	1.00	1	03/19/2015 10:53	WG776631

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0100	1.00	1	03/21/2015 15:28	WG775839
Acrylonitrile	U		0.00180	0.0100	1	03/21/2015 15:28	WG775839
Benzene	U		0.000270	0.00100	1	03/21/2015 15:28	WG775839
Bromobenzene	U		0.000280	0.00100	1	03/21/2015 15:28	WG775839
Bromodichloromethane	U		0.000250	0.00125	1	03/21/2015 15:28	WG775839
Bromoform	U		0.000420	0.00100	1	03/21/2015 15:28	WG775839
Bromomethane	U		0.00130	0.00500	1	03/21/2015 15:28	WG775839
n-Butylbenzene	U		0.000260	0.00100	1	03/21/2015 15:28	WG775839
sec-Butylbenzene	U		0.000200	0.00100	1	03/21/2015 15:28	WG775839
tert-Butylbenzene	U		0.000210	0.00100	1	03/21/2015 15:28	WG775839
Carbon tetrachloride	U		0.000330	0.00100	1	03/21/2015 15:28	WG775839
Chlorobenzene	U		0.000210	0.00100	1	03/21/2015 15:28	WG775839
Chlorodibromomethane	U		0.000370	0.00100	1	03/21/2015 15:28	WG775839
Chloroethane	U		0.000950	0.00500	1	03/21/2015 15:28	WG775839
2-Chloroethyl vinyl ether	U		0.00230	0.0500	1	03/21/2015 15:28	WG775839
Chloroform	U		0.000230	0.00500	1	03/21/2015 15:28	WG775839
Chloromethane	U		0.000380	0.00250	1	03/21/2015 15:28	WG775839
2-Chlorotoluene	U		0.000300	0.00100	1	03/21/2015 15:28	WG775839
4-Chlorotoluene	U		0.000240	0.00100	1	03/21/2015 15:28	WG775839
1,2-Dibromo-3-Chloropropane	U		0.00100	0.00500	1	03/21/2015 15:28	WG775839
1,2-Dibromoethane	U		0.000340	0.00100	1	03/21/2015 15:28	WG775839
Dibromomethane	U		0.000380	0.00100	1	03/21/2015 15:28	WG775839
1,2-Dichlorobenzene	U		0.000300	0.00100	1	03/21/2015 15:28	WG775839
1,3-Dichlorobenzene	U		0.000240	0.00100	1	03/21/2015 15:28	WG775839
1,4-Dichlorobenzene	U		0.000230	0.00100	1	03/21/2015 15:28	WG775839
Dichlorodifluoromethane	U		0.000710	0.00500	1	03/21/2015 15:28	WG775839
1,1-Dichloroethane	U		0.000200	0.00100	1	03/21/2015 15:28	WG775839
1,2-Dichloroethane	U		0.000260	0.00100	1	03/21/2015 15:28	WG775839
1,1-Dichloroethene	U		0.000300	0.00100	1	03/21/2015 15:28	WG775839
cis-1,2-Dichloroethene	U		0.000240	0.00100	1	03/21/2015 15:28	WG775839
trans-1,2-Dichloroethene	U		0.000260	0.00100	1	03/21/2015 15:28	WG775839
1,2-Dichloropropane	U		0.000360	0.00100	1	03/21/2015 15:28	WG775839
1,1-Dichloropropene	U		0.000320	0.00100	1	03/21/2015 15:28	WG775839
1,3-Dichloropropane	U		0.000210	0.00100	1	03/21/2015 15:28	WG775839

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
cis-1,3-Dichloropropene	U		0.000260	0.00100	1	03/21/2015 15:28	WG775839
trans-1,3-Dichloropropene	U		0.000270	0.00100	1	03/21/2015 15:28	WG775839
2,2-Dichloropropane	U		0.000280	0.00100	1	03/21/2015 15:28	WG775839
Di-isopropyl ether	U		0.000250	0.00100	1	03/21/2015 15:28	WG775839
Ethylbenzene	U		0.000300	0.00100	1	03/21/2015 15:28	WG775839
Hexachloro-1,3-butadiene	U		0.000340	0.00100	1	03/21/2015 15:28	WG775839
Isopropylbenzene	U		0.000240	0.00100	1	03/21/2015 15:28	WG775839
p-Isopropyltoluene	U		0.000200	0.00100	1	03/21/2015 15:28	WG775839
2-Butanone (MEK)	U		0.00470	0.0100	1	03/21/2015 15:28	WG775839
Methylene Chloride	U		0.00100	0.00500	1	03/21/2015 15:28	WG775839
4-Methyl-2-pentanone (MIBK)	U		0.00190	0.0100	1	03/21/2015 15:28	WG775839
Methyl tert-butyl ether	U		0.000210	0.00100	1	03/21/2015 15:28	WG775839
Naphthalene	U		0.00100	0.00500	1	03/21/2015 15:28	WG775839
n-Propylbenzene	U		0.000210	0.00100	1	03/21/2015 15:28	WG775839
Styrene	U		0.000230	0.00100	1	03/21/2015 15:28	WG775839
1,1,1,2-Tetrachloroethane	U		0.000260	0.00100	1	03/21/2015 15:28	WG775839
1,1,2,2-Tetrachloroethane	U		0.000360	0.00100	1	03/21/2015 15:28	WG775839
1,1,2-Trichlorotrifluoroethane	U		0.000360	0.00100	1	03/21/2015 15:28	WG775839
Tetrachloroethene	U		0.000280	0.00100	1	03/21/2015 15:28	WG775839
Toluene	U		0.000430	0.00500	1	03/21/2015 15:28	WG775839
1,2,3-Trichlorobenzene	U		0.000310	0.00100	1	03/21/2015 15:28	WG775839
1,2,4-Trichlorobenzene	U		0.000390	0.00100	1	03/21/2015 15:28	WG775839
1,1,1-Trichloroethane	U		0.000286	0.00100	1	03/21/2015 15:28	WG775839
1,1,2-Trichloroethane	U		0.000280	0.00100	1	03/21/2015 15:28	WG775839
Trichloroethene	U		0.000280	0.00100	1	03/21/2015 15:28	WG775839
Trichlorofluoromethane	U		0.000380	0.00500	1	03/21/2015 15:28	WG775839
1,2,3-Trichloropropane	U		0.000740	0.00250	1	03/21/2015 15:28	WG775839
1,2,4-Trimethylbenzene	U		0.000210	0.00100	1	03/21/2015 15:28	WG775839
1,2,3-Trimethylbenzene	U		0.000290	0.00100	1	03/21/2015 15:28	WG775839
1,3,5-Trimethylbenzene	U		0.000270	0.00100	1	03/21/2015 15:28	WG775839
Vinyl chloride	U		0.000290	0.00100	1	03/21/2015 15:28	WG775839
Xylenes, Total	U		0.000700	0.00300	1	03/21/2015 15:28	WG775839
(S) Toluene-d8	*108*			*88.5-111*		*03/21/2015 15:28*	WG775839
(S) Dibromofluoromethane	*106*			*78.3-121*		*03/21/2015 15:28*	WG775839
(S) 4-Bromofluorobenzene	*97.6*			*71.0-126*		*03/21/2015 15:28*	WG775839

Semi-Volatile Organic Compounds (GC) by Method TX 1005

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH C6 - C12	U		15.0	50.0	1	03/19/2015 13:10	WG776698
TPH C12 - C28	U		15.0	50.0	1	03/19/2015 13:10	WG776698
TPH C28 - C35	U		15.0	50.0	1	03/19/2015 13:10	WG776698
TPH C6 - C35	U		15.0	50.0	1	03/19/2015 13:10	WG776698
(S) o-Terphenyl	*102*			*70.0-130*		*03/19/2015 13:10*	WG776698

Semi-Volatile Organic Compounds (GC) by Method 8151

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
2,4-D	U		0.0230	0.0700	1	03/21/2015 20:41	WG776018
Dalapon	U		0.270	0.800	1	03/21/2015 20:41	WG776018
2,4-DB	U		0.0230	0.0700	1	03/21/2015 20:41	WG776018
Dicamba	U		0.0230	0.0700	1	03/21/2015 20:41	WG776018
Dichloroprop	U		0.0230	0.0700	1	03/21/2015 20:41	WG776018
Dinoseb	U		0.0230	0.0700	1	03/21/2015 20:41	WG776018
MCPA	U		2.20	6.50	1	03/21/2015 20:41	WG776018

Semi-Volatile Organic Compounds (GC) by Method 8151

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
MCPP	U		2.20	6.50	1	03/21/2015 20:41	WG776018
2,4,5-T	U		0.0230	0.0700	1	03/21/2015 20:41	WG776018
2,4,5-TP (Silvex)	U		0.0230	0.0700	1	03/21/2015 20:41	WG776018
(S) 2,4-Dichlorophenyl Acetic Acid	*65.1*			*23.5-129*		*03/21/2015 20:41*	WG776018

Pesticides (GC) by Method 8081

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.00140	0.0200	1	03/19/2015 20:50	WG776101
Alpha BHC	U		0.00140	0.0200	1	03/19/2015 20:50	WG776101
Beta BHC	U		0.00160	0.0200	1	03/19/2015 20:50	WG776101
Delta BHC	U		0.00140	0.0200	1	03/19/2015 20:50	WG776101
Gamma BHC	U		0.00140	0.0200	1	03/19/2015 20:50	WG776101
Chlordane	U		0.0390	0.200	1	03/19/2015 20:50	WG776101
4,4-DDD	U		0.00160	0.0200	1	03/19/2015 20:50	WG776101
4,4-DDE	U		0.00150	0.0200	1	03/19/2015 20:50	WG776101
4,4-DDT	U		0.00200	0.0200	1	03/19/2015 20:50	WG776101
Dieldrin	U		0.00150	0.0200	1	03/19/2015 20:50	WG776101
Endosulfan I	U		0.00150	0.0200	1	03/19/2015 20:50	WG776101
Endosulfan II	U		0.00160	0.0200	1	03/19/2015 20:50	WG776101
Endosulfan sulfate	U		0.00150	0.0200	1	03/19/2015 20:50	WG776101
Endrin	U		0.00160	0.0200	1	03/19/2015 20:50	WG776101
Endrin aldehyde	U		0.00130	0.0200	1	03/19/2015 20:50	WG776101
Endrin ketone	U		0.00160	0.0200	1	03/19/2015 20:50	WG776101
Hexachlorobenzene	U		0.00120	0.0200	1	03/19/2015 20:50	WG776101
Heptachlor	U		0.00150	0.0200	1	03/19/2015 20:50	WG776101
Heptachlor epoxide	U		0.00160	0.0200	1	03/19/2015 20:50	WG776101
Methoxychlor	U		0.00180	0.0200	1	03/19/2015 20:50	WG776101
Toxaphene	U		0.0360	0.400	1	03/19/2015 20:50	WG776101
(S) Decachlorobiphenyl	*70.8*			*10.0-143*		*03/19/2015 20:50*	WG776101
(S) Tetrachloro-m-xylene	*98.0*			*29.2-144*		*03/19/2015 20:50*	WG776101

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acenaphthene	U		0.00640	0.0330	1	03/18/2015 19:10	WG776092
Acenaphthylene	U		0.00670	0.0330	1	03/18/2015 19:10	WG776092
Anthracene	U		0.00630	0.0330	1	03/18/2015 19:10	WG776092
Benzidine	U		0.0640	0.333	1	03/18/2015 19:10	WG776092
Benzo(a)anthracene	U		0.00430	0.0330	1	03/18/2015 19:10	WG776092
Benzo(b)fluoranthene	U		0.00700	0.0330	1	03/18/2015 19:10	WG776092
Benzo(k)fluoranthene	U		0.00580	0.0330	1	03/18/2015 19:10	WG776092
Benzo(g,h,i)perylene	U		0.00720	0.0330	1	03/18/2015 19:10	WG776092
Benzo(a)pyrene	U		0.00550	0.0330	1	03/18/2015 19:10	WG776092
Bis(2-chlorethoxy)methane	U		0.00770	0.333	1	03/18/2015 19:10	WG776092
Bis(2-chloroethyl)ether	U		0.00900	0.333	1	03/18/2015 19:10	WG776092
Bis(2-chloroisopropyl)ether	U		0.00760	0.333	1	03/18/2015 19:10	WG776092
4-Bromophenyl-phenylether	U		0.0110	0.333	1	03/18/2015 19:10	WG776092
2-Chloronaphthalene	U		0.00640	0.0330	1	03/18/2015 19:10	WG776092
4-Chlorophenyl-phenylether	U		0.00630	0.333	1	03/18/2015 19:10	WG776092
Chrysene	U		0.00560	0.0330	1	03/18/2015 19:10	WG776092
Dibenz(a,h)anthracene	U		0.00820	0.0330	1	03/18/2015 19:10	WG776092
3,3-Dichlorobenzidine	U		0.0790	0.333	1	03/18/2015 19:10	WG776092
2,4-Dinitrotoluene	U		0.00610	0.333	1	03/18/2015 19:10	WG776092
2,6-Dinitrotoluene	U		0.00740	0.333	1	03/18/2015 19:10	WG776092

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Fluoranthene	U		0.00500	0.0330	1	03/18/2015 19:10	WG776092
Fluorene	U		0.00680	0.0330	1	03/18/2015 19:10	WG776092
Hexachlorobenzene	U		0.00860	0.333	1	03/18/2015 19:10	WG776092
Hexachloro-1,3-butadiene	U		0.0100	0.333	1	03/18/2015 19:10	WG776092
Hexachlorocyclopentadiene	U		0.0590	0.333	1	03/18/2015 19:10	WG776092
Hexachloroethane	U		0.0130	0.333	1	03/18/2015 19:10	WG776092
Indeno(1,2,3-cd)pyrene	U		0.00770	0.0330	1	03/18/2015 19:10	WG776092
Isophorone	U		0.00520	0.333	1	03/18/2015 19:10	WG776092
Naphthalene	U		0.00890	0.0330	1	03/18/2015 19:10	WG776092
Nitrobenzene	U		0.00700	0.333	1	03/18/2015 19:10	WG776092
n-Nitrosodimethylamine	U		0.0650	0.333	1	03/18/2015 19:10	WG776092
n-Nitrosodiphenylamine	U		0.00590	0.333	1	03/18/2015 19:10	WG776092
n-Nitrosodi-n-propylamine	U		0.00910	0.333	1	03/18/2015 19:10	WG776092
Phenanthrene	U		0.00530	0.0330	1	03/18/2015 19:10	WG776092
Benzylbutyl phthalate	U		0.0100	0.333	1	03/18/2015 19:10	WG776092
Bis(2-ethylhexyl)phthalate	U		0.0120	0.333	1	03/18/2015 19:10	WG776092
Di-n-butyl phthalate	U		0.0110	0.333	1	03/18/2015 19:10	WG776092
Diethyl phthalate	U		0.00690	0.333	1	03/18/2015 19:10	WG776092
Dimethyl phthalate	U		0.00540	0.333	1	03/18/2015 19:10	WG776092
Di-n-octyl phthalate	U		0.00910	0.333	1	03/18/2015 19:10	WG776092
Pyrene	U		0.0120	0.0330	1	03/18/2015 19:10	WG776092
1,2,4-Trichlorobenzene	U		0.00880	0.333	1	03/18/2015 19:10	WG776092
4-Chloro-3-methylphenol	U		0.00480	0.333	1	03/18/2015 19:10	WG776092
2-Chlorophenol	U		0.00830	0.333	1	03/18/2015 19:10	WG776092
2,4-Dichlorophenol	U		0.00750	0.333	1	03/18/2015 19:10	WG776092
2,4-Dimethylphenol	U		0.0470	0.333	1	03/18/2015 19:10	WG776092
4,6-Dinitro-2-methylphenol	U		0.120	0.333	1	03/18/2015 19:10	WG776092
2,4-Dinitrophenol	U		0.0980	0.333	1	03/18/2015 19:10	WG776092
2-Nitrophenol	U		0.0130	0.333	1	03/18/2015 19:10	WG776092
4-Nitrophenol	U		0.0520	0.333	1	03/18/2015 19:10	WG776092
Pentachlorophenol	U		0.0480	0.333	1	03/18/2015 19:10	WG776092
Phenol	U		0.00700	0.333	1	03/18/2015 19:10	WG776092
2,4,6-Trichlorophenol	U		0.00780	0.333	1	03/18/2015 19:10	WG776092
(S) 2-Fluorophenol	*50.6*			*21.1-116*		*03/18/2015 19:10*	WG776092
(S) Phenol-d5	*53.6*			*26.3-121*		*03/18/2015 19:10*	WG776092
(S) Nitrobenzene-d5	*56.9*			*21.9-129*		*03/18/2015 19:10*	WG776092
(S) 2-Fluorobiphenyl	*63.9*			*34.9-129*		*03/18/2015 19:10*	WG776092
(S) 2,4,6-Tribromophenol	*60.5*			*21.6-142*		*03/18/2015 19:10*	WG776092
(S) p-Terphenyl-d14	*61.3*			*21.5-128*		*03/18/2015 19:10*	WG776092

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	83.4		1	03/19/2015 06:56	WG776247

Mercury by Method 7471A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.00280	0.0200	1	03/17/2015 08:04	WG776002

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	2.00		0.650	2.00	1	03/19/2015 10:57	WG776631
Barium	20.1		0.170	0.500	1	03/19/2015 10:57	WG776631
Cadmium	U		0.0700	0.500	1	03/19/2015 10:57	WG776631
Chromium	13.4		0.140	1.00	1	03/19/2015 10:57	WG776631
Lead	5.58		0.190	0.500	1	03/19/2015 10:57	WG776631
Selenium	1.22	J	0.740	2.00	1	03/19/2015 10:57	WG776631
Silver	U		0.280	1.00	1	03/19/2015 10:57	WG776631

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0100	1.00	1	03/24/2015 02:57	WG777645
Acrylonitrile	U		0.00180	0.0100	1	03/24/2015 02:57	WG777645
Benzene	U		0.000270	0.00100	1	03/24/2015 02:57	WG777645
Bromobenzene	U		0.000280	0.00100	1	03/24/2015 02:57	WG777645
Bromodichloromethane	U		0.000250	0.00125	1	03/24/2015 02:57	WG777645
Bromoform	U		0.000420	0.00100	1	03/24/2015 02:57	WG777645
Bromomethane	U		0.00130	0.00500	1	03/24/2015 02:57	WG777645
n-Butylbenzene	U		0.000260	0.00100	1	03/24/2015 02:57	WG777645
sec-Butylbenzene	U		0.000200	0.00100	1	03/24/2015 02:57	WG777645
tert-Butylbenzene	U		0.000210	0.00100	1	03/24/2015 02:57	WG777645
Carbon tetrachloride	U		0.000330	0.00100	1	03/24/2015 02:57	WG777645
Chlorobenzene	U		0.000210	0.00100	1	03/24/2015 02:57	WG777645
Chlorodibromomethane	U		0.000370	0.00100	1	03/24/2015 02:57	WG777645
Chloroethane	U		0.000950	0.00500	1	03/24/2015 02:57	WG777645
2-Chloroethyl vinyl ether	U		0.00230	0.0500	1	03/24/2015 02:57	WG777645
Chloroform	U		0.000230	0.00500	1	03/24/2015 02:57	WG777645
Chloromethane	U		0.000380	0.00250	1	03/24/2015 02:57	WG777645
2-Chlorotoluene	U		0.000300	0.00100	1	03/24/2015 02:57	WG777645
4-Chlorotoluene	U		0.000240	0.00100	1	03/24/2015 02:57	WG777645
1,2-Dibromo-3-Chloropropane	U		0.00100	0.00500	1	03/24/2015 02:57	WG777645
1,2-Dibromoethane	U		0.000340	0.00100	1	03/24/2015 02:57	WG777645
Dibromomethane	U		0.000380	0.00100	1	03/24/2015 02:57	WG777645
1,2-Dichlorobenzene	U		0.000300	0.00100	1	03/24/2015 02:57	WG777645
1,3-Dichlorobenzene	U		0.000240	0.00100	1	03/24/2015 02:57	WG777645
1,4-Dichlorobenzene	U		0.000230	0.00100	1	03/24/2015 02:57	WG777645
Dichlorodifluoromethane	U		0.000710	0.00500	1	03/24/2015 02:57	WG777645
1,1-Dichloroethane	U		0.000200	0.00100	1	03/24/2015 02:57	WG777645
1,2-Dichloroethane	U		0.000260	0.00100	1	03/24/2015 02:57	WG777645
1,1-Dichloroethene	U		0.000300	0.00100	1	03/24/2015 02:57	WG777645
cis-1,2-Dichloroethene	U		0.000240	0.00100	1	03/24/2015 02:57	WG777645
trans-1,2-Dichloroethene	U		0.000260	0.00100	1	03/24/2015 02:57	WG777645
1,2-Dichloropropane	U		0.000360	0.00100	1	03/24/2015 02:57	WG777645
1,1-Dichloropropene	U		0.000320	0.00100	1	03/24/2015 02:57	WG777645
1,3-Dichloropropane	U		0.000210	0.00100	1	03/24/2015 02:57	WG777645

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
cis-1,3-Dichloropropene	U		0.000260	0.00100	1	03/24/2015 02:57	WG777645
trans-1,3-Dichloropropene	U		0.000270	0.00100	1	03/24/2015 02:57	WG777645
2,2-Dichloropropane	U		0.000280	0.00100	1	03/24/2015 02:57	WG777645
Di-isopropyl ether	U		0.000250	0.00100	1	03/24/2015 02:57	WG777645
Ethylbenzene	U		0.000300	0.00100	1	03/24/2015 02:57	WG777645
Hexachloro-1,3-butadiene	U		0.000340	0.00100	1	03/24/2015 02:57	WG777645
Isopropylbenzene	U		0.000240	0.00100	1	03/24/2015 02:57	WG777645
p-Isopropyltoluene	U		0.000200	0.00100	1	03/24/2015 02:57	WG777645
2-Butanone (MEK)	U		0.00470	0.0100	1	03/24/2015 02:57	WG777645
Methylene Chloride	U		0.00100	0.00500	1	03/24/2015 02:57	WG777645
4-Methyl-2-pentanone (MIBK)	U		0.00190	0.0100	1	03/24/2015 02:57	WG777645
Methyl tert-butyl ether	U		0.000210	0.00100	1	03/24/2015 02:57	WG777645
Naphthalene	U		0.00100	0.00500	1	03/24/2015 02:57	WG777645
n-Propylbenzene	U		0.000210	0.00100	1	03/24/2015 02:57	WG777645
Styrene	U		0.000230	0.00100	1	03/24/2015 02:57	WG777645
1,1,1,2-Tetrachloroethane	U		0.000260	0.00100	1	03/24/2015 02:57	WG777645
1,1,2,2-Tetrachloroethane	U		0.000360	0.00100	1	03/24/2015 02:57	WG777645
1,1,2-Trichlorotrifluoroethane	U		0.000360	0.00100	1	03/24/2015 02:57	WG777645
Tetrachloroethene	U		0.000280	0.00100	1	03/24/2015 02:57	WG777645
Toluene	U		0.000430	0.00500	1	03/24/2015 02:57	WG777645
1,2,3-Trichlorobenzene	U		0.000310	0.00100	1	03/24/2015 02:57	WG777645
1,2,4-Trichlorobenzene	U		0.000390	0.00100	1	03/24/2015 02:57	WG777645
1,1,1-Trichloroethane	U		0.000286	0.00100	1	03/24/2015 02:57	WG777645
1,1,2-Trichloroethane	U		0.000280	0.00100	1	03/24/2015 02:57	WG777645
Trichloroethene	U		0.000280	0.00100	1	03/24/2015 02:57	WG777645
Trichlorofluoromethane	U		0.000380	0.00500	1	03/24/2015 02:57	WG777645
1,2,3-Trichloropropane	U		0.000740	0.00250	1	03/24/2015 02:57	WG777645
1,2,4-Trimethylbenzene	U		0.000210	0.00100	1	03/24/2015 02:57	WG777645
1,2,3-Trimethylbenzene	U		0.000290	0.00100	1	03/24/2015 02:57	WG777645
1,3,5-Trimethylbenzene	U		0.000270	0.00100	1	03/24/2015 02:57	WG777645
Vinyl chloride	U		0.000290	0.00100	1	03/24/2015 02:57	WG777645
Xylenes, Total	U		0.000700	0.00300	1	03/24/2015 02:57	WG777645
(S) Toluene-d8	*101*			*88.5-111*		*03/24/2015 02:57*	WG777645
(S) Dibromofluoromethane	*103*			*78.3-121*		*03/24/2015 02:57*	WG777645
(S) 4-Bromofluorobenzene	*96.9*			*71.0-126*		*03/24/2015 02:57*	WG777645

Sample Narrative:

8260B L753660-04 WG777645: Previous run also had low IS/SURR recovery. Matrix effect.

Semi-Volatile Organic Compounds (GC) by Method TX 1005

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH C6 - C12	U		15.0	50.0	1	03/19/2015 13:22	WG776698
TPH C12 - C28	U		15.0	50.0	1	03/19/2015 13:22	WG776698
TPH C28 - C35	U		15.0	50.0	1	03/19/2015 13:22	WG776698
TPH C6 - C35	U		15.0	50.0	1	03/19/2015 13:22	WG776698
(S) o-Terphenyl	*101*			*70.0-130*		*03/19/2015 13:22*	WG776698

Semi-Volatile Organic Compounds (GC) by Method 8151

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
2,4-D	U		0.0230	0.0700	1	03/21/2015 20:54	WG776018
Dalapon	U		0.270	0.800	1	03/21/2015 20:54	WG776018
2,4-DB	U		0.0230	0.0700	1	03/21/2015 20:54	WG776018
Dicamba	U		0.0230	0.0700	1	03/21/2015 20:54	WG776018

Semi-Volatile Organic Compounds (GC) by Method 8151

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Dichloroprop	U		0.0230	0.0700	1	03/21/2015 20:54	WG776018
Dinoseb	U		0.0230	0.0700	1	03/21/2015 20:54	WG776018
MCPA	U		2.20	6.50	1	03/21/2015 20:54	WG776018
MCPP	U		2.20	6.50	1	03/21/2015 20:54	WG776018
2,4,5-T	U		0.0230	0.0700	1	03/21/2015 20:54	WG776018
2,4,5-TP (Silvex)	U		0.0230	0.0700	1	03/21/2015 20:54	WG776018
(S) 2,4-Dichlorophenyl Acetic Acid	*65.7*			*23.5-129*		*03/21/2015 20:54*	WG776018

Pesticides (GC) by Method 8081

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Aldrin	U		0.00140	0.0200	1	03/19/2015 21:04	WG776101
Alpha BHC	U		0.00140	0.0200	1	03/19/2015 21:04	WG776101
Beta BHC	U		0.00160	0.0200	1	03/19/2015 21:04	WG776101
Delta BHC	U		0.00140	0.0200	1	03/19/2015 21:04	WG776101
Gamma BHC	U		0.00140	0.0200	1	03/19/2015 21:04	WG776101
Chlordane	U		0.0390	0.200	1	03/19/2015 21:04	WG776101
4,4-DDD	U		0.00160	0.0200	1	03/19/2015 21:04	WG776101
4,4-DDE	U		0.00150	0.0200	1	03/19/2015 21:04	WG776101
4,4-DDT	U		0.00200	0.0200	1	03/19/2015 21:04	WG776101
Dieldrin	U		0.00150	0.0200	1	03/19/2015 21:04	WG776101
Endosulfan I	U		0.00150	0.0200	1	03/19/2015 21:04	WG776101
Endosulfan II	U		0.00160	0.0200	1	03/19/2015 21:04	WG776101
Endosulfan sulfate	U		0.00150	0.0200	1	03/19/2015 21:04	WG776101
Endrin	U		0.00160	0.0200	1	03/19/2015 21:04	WG776101
Endrin aldehyde	U		0.00130	0.0200	1	03/19/2015 21:04	WG776101
Endrin ketone	U		0.00160	0.0200	1	03/19/2015 21:04	WG776101
Hexachlorobenzene	U		0.00120	0.0200	1	03/19/2015 21:04	WG776101
Heptachlor	U		0.00150	0.0200	1	03/19/2015 21:04	WG776101
Heptachlor epoxide	U		0.00160	0.0200	1	03/19/2015 21:04	WG776101
Methoxychlor	U		0.00180	0.0200	1	03/19/2015 21:04	WG776101
Toxaphene	U		0.0360	0.400	1	03/19/2015 21:04	WG776101
(S) Decachlorobiphenyl	*75.0*			*10.0-143*		*03/19/2015 21:04*	WG776101
(S) Tetrachloro-m-xylene	*102*			*29.2-144*		*03/19/2015 21:04*	WG776101

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.00640	0.0330	1	03/18/2015 19:32	WG776092
Acenaphthylene	U		0.00670	0.0330	1	03/18/2015 19:32	WG776092
Anthracene	U		0.00630	0.0330	1	03/18/2015 19:32	WG776092
Benzidine	U		0.0640	0.333	1	03/18/2015 19:32	WG776092
Benzo(a)anthracene	U		0.00430	0.0330	1	03/18/2015 19:32	WG776092
Benzo(b)fluoranthene	U		0.00700	0.0330	1	03/18/2015 19:32	WG776092
Benzo(k)fluoranthene	U		0.00580	0.0330	1	03/18/2015 19:32	WG776092
Benzo(g,h,i)perylene	U		0.00720	0.0330	1	03/18/2015 19:32	WG776092
Benzo(a)pyrene	U		0.00550	0.0330	1	03/18/2015 19:32	WG776092
Bis(2-chlorethoxy)methane	U		0.00770	0.333	1	03/18/2015 19:32	WG776092
Bis(2-chloroethyl)ether	U		0.00900	0.333	1	03/18/2015 19:32	WG776092
Bis(2-chloroisopropyl)ether	U		0.00760	0.333	1	03/18/2015 19:32	WG776092
4-Bromophenyl-phenylether	U		0.0110	0.333	1	03/18/2015 19:32	WG776092
2-Chloronaphthalene	U		0.00640	0.0330	1	03/18/2015 19:32	WG776092
4-Chlorophenyl-phenylether	U		0.00630	0.333	1	03/18/2015 19:32	WG776092
Chrysene	U		0.00560	0.0330	1	03/18/2015 19:32	WG776092
Dibenz(a,h)anthracene	U		0.00820	0.0330	1	03/18/2015 19:32	WG776092

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
3,3-Dichlorobenzidine	U		0.0790	0.333	1	03/18/2015 19:32	WG776092
2,4-Dinitrotoluene	U		0.00610	0.333	1	03/18/2015 19:32	WG776092
2,6-Dinitrotoluene	U		0.00740	0.333	1	03/18/2015 19:32	WG776092
Fluoranthene	U		0.00500	0.0330	1	03/18/2015 19:32	WG776092
Fluorene	U		0.00680	0.0330	1	03/18/2015 19:32	WG776092
Hexachlorobenzene	U		0.00860	0.333	1	03/18/2015 19:32	WG776092
Hexachloro-1,3-butadiene	U		0.0100	0.333	1	03/18/2015 19:32	WG776092
Hexachlorocyclopentadiene	U		0.0590	0.333	1	03/18/2015 19:32	WG776092
Hexachloroethane	U		0.0130	0.333	1	03/18/2015 19:32	WG776092
Indeno(1,2,3-cd)pyrene	U		0.00770	0.0330	1	03/18/2015 19:32	WG776092
Isophorone	U		0.00520	0.333	1	03/18/2015 19:32	WG776092
Naphthalene	U		0.00890	0.0330	1	03/18/2015 19:32	WG776092
Nitrobenzene	U		0.00700	0.333	1	03/18/2015 19:32	WG776092
n-Nitrosodimethylamine	U		0.0650	0.333	1	03/18/2015 19:32	WG776092
n-Nitrosodiphenylamine	U		0.00590	0.333	1	03/18/2015 19:32	WG776092
n-Nitrosodi-n-propylamine	U		0.00910	0.333	1	03/18/2015 19:32	WG776092
Phenanthrene	U		0.00530	0.0330	1	03/18/2015 19:32	WG776092
Benzylbutyl phthalate	U		0.0100	0.333	1	03/18/2015 19:32	WG776092
Bis(2-ethylhexyl)phthalate	U		0.0120	0.333	1	03/18/2015 19:32	WG776092
Di-n-butyl phthalate	U		0.0110	0.333	1	03/18/2015 19:32	WG776092
Diethyl phthalate	U		0.00690	0.333	1	03/18/2015 19:32	WG776092
Dimethyl phthalate	U		0.00540	0.333	1	03/18/2015 19:32	WG776092
Di-n-octyl phthalate	U		0.00910	0.333	1	03/18/2015 19:32	WG776092
Pyrene	U		0.0120	0.0330	1	03/18/2015 19:32	WG776092
1,2,4-Trichlorobenzene	U		0.00880	0.333	1	03/18/2015 19:32	WG776092
4-Chloro-3-methylphenol	U		0.00480	0.333	1	03/18/2015 19:32	WG776092
2-Chlorophenol	U		0.00830	0.333	1	03/18/2015 19:32	WG776092
2,4-Dichlorophenol	U		0.00750	0.333	1	03/18/2015 19:32	WG776092
2,4-Dimethylphenol	U		0.0470	0.333	1	03/18/2015 19:32	WG776092
4,6-Dinitro-2-methylphenol	U		0.120	0.333	1	03/18/2015 19:32	WG776092
2,4-Dinitrophenol	U		0.0980	0.333	1	03/18/2015 19:32	WG776092
2-Nitrophenol	U		0.0130	0.333	1	03/18/2015 19:32	WG776092
4-Nitrophenol	U		0.0520	0.333	1	03/18/2015 19:32	WG776092
Pentachlorophenol	U		0.0480	0.333	1	03/18/2015 19:32	WG776092
Phenol	U		0.00700	0.333	1	03/18/2015 19:32	WG776092
2,4,6-Trichlorophenol	U		0.00780	0.333	1	03/18/2015 19:32	WG776092
(S) 2-Fluorophenol	*69.7*			*21.1-116*		*03/18/2015 19:32*	WG776092
(S) Phenol-d5	*72.7*			*26.3-121*		*03/18/2015 19:32*	WG776092
(S) Nitrobenzene-d5	*73.1*			*21.9-129*		*03/18/2015 19:32*	WG776092
(S) 2-Fluorobiphenyl	*79.0*			*34.9-129*		*03/18/2015 19:32*	WG776092
(S) 2,4,6-Tribromophenol	*72.3*			*21.6-142*		*03/18/2015 19:32*	WG776092
(S) p-Terphenyl-d14	*68.7*			*21.5-128*		*03/18/2015 19:32*	WG776092

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
	%				
Total Solids	87.2		1	03/19/2015 06:38	WG776248

Mercury by Method 7471A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg	mg/kg			
Mercury	0.00411	J	0.00280	0.0200	1	03/17/2015 08:07	WG776002

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg	mg/kg			
Arsenic	1.86	J	0.650	2.00	1	03/19/2015 11:02	WG776631
Barium	46.7		0.170	0.500	1	03/19/2015 11:02	WG776631
Cadmium	U		0.0700	0.500	1	03/19/2015 11:02	WG776631
Chromium	6.77		0.140	1.00	1	03/19/2015 11:02	WG776631
Lead	4.73		0.190	0.500	1	03/19/2015 11:02	WG776631
Selenium	U		0.740	2.00	1	03/19/2015 11:02	WG776631
Silver	U		0.280	1.00	1	03/19/2015 11:02	WG776631

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg	mg/kg			
Acetone	U		0.0100	1.00	1	03/21/2015 16:08	WG775839
Acrylonitrile	U		0.00180	0.0100	1	03/21/2015 16:08	WG775839
Benzene	U		0.000270	0.00100	1	03/21/2015 16:08	WG775839
Bromobenzene	U		0.000280	0.00100	1	03/21/2015 16:08	WG775839
Bromodichloromethane	U		0.000250	0.00125	1	03/21/2015 16:08	WG775839
Bromoform	U		0.000420	0.00100	1	03/21/2015 16:08	WG775839
Bromomethane	U		0.00130	0.00500	1	03/21/2015 16:08	WG775839
n-Butylbenzene	U		0.000260	0.00100	1	03/21/2015 16:08	WG775839
sec-Butylbenzene	U		0.000200	0.00100	1	03/21/2015 16:08	WG775839
tert-Butylbenzene	U		0.000210	0.00100	1	03/21/2015 16:08	WG775839
Carbon tetrachloride	U		0.000330	0.00100	1	03/21/2015 16:08	WG775839
Chlorobenzene	U		0.000210	0.00100	1	03/21/2015 16:08	WG775839
Chlorodibromomethane	U		0.000370	0.00100	1	03/21/2015 16:08	WG775839
Chloroethane	U		0.000950	0.00500	1	03/21/2015 16:08	WG775839
2-Chloroethyl vinyl ether	U		0.00230	0.0500	1	03/21/2015 16:08	WG775839
Chloroform	U		0.000230	0.00500	1	03/21/2015 16:08	WG775839
Chloromethane	U		0.000380	0.00250	1	03/21/2015 16:08	WG775839
2-Chlorotoluene	U		0.000300	0.00100	1	03/21/2015 16:08	WG775839
4-Chlorotoluene	U		0.000240	0.00100	1	03/21/2015 16:08	WG775839
1,2-Dibromo-3-Chloropropane	U		0.00100	0.00500	1	03/21/2015 16:08	WG775839
1,2-Dibromoethane	U		0.000340	0.00100	1	03/21/2015 16:08	WG775839
Dibromomethane	U		0.000380	0.00100	1	03/21/2015 16:08	WG775839
1,2-Dichlorobenzene	U		0.000300	0.00100	1	03/21/2015 16:08	WG775839
1,3-Dichlorobenzene	U		0.000240	0.00100	1	03/21/2015 16:08	WG775839
1,4-Dichlorobenzene	U		0.000230	0.00100	1	03/21/2015 16:08	WG775839
Dichlorodifluoromethane	U		0.000710	0.00500	1	03/21/2015 16:08	WG775839
1,1-Dichloroethane	U		0.000200	0.00100	1	03/21/2015 16:08	WG775839
1,2-Dichloroethane	U		0.000260	0.00100	1	03/21/2015 16:08	WG775839
1,1-Dichloroethene	U		0.000300	0.00100	1	03/21/2015 16:08	WG775839
cis-1,2-Dichloroethene	U		0.000240	0.00100	1	03/21/2015 16:08	WG775839
trans-1,2-Dichloroethene	U		0.000260	0.00100	1	03/21/2015 16:08	WG775839
1,2-Dichloropropane	U		0.000360	0.00100	1	03/21/2015 16:08	WG775839
1,1-Dichloropropene	U		0.000320	0.00100	1	03/21/2015 16:08	WG775839
1,3-Dichloropropane	U		0.000210	0.00100	1	03/21/2015 16:08	WG775839

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
cis-1,3-Dichloropropene	U		0.000260	0.00100	1	03/21/2015 16:08	WG775839
trans-1,3-Dichloropropene	U		0.000270	0.00100	1	03/21/2015 16:08	WG775839
2,2-Dichloropropane	U		0.000280	0.00100	1	03/21/2015 16:08	WG775839
Di-isopropyl ether	U		0.000250	0.00100	1	03/21/2015 16:08	WG775839
Ethylbenzene	U		0.000300	0.00100	1	03/21/2015 16:08	WG775839
Hexachloro-1,3-butadiene	U		0.000340	0.00100	1	03/21/2015 16:08	WG775839
Isopropylbenzene	U		0.000240	0.00100	1	03/21/2015 16:08	WG775839
p-Isopropyltoluene	U		0.000200	0.00100	1	03/21/2015 16:08	WG775839
2-Butanone (MEK)	U		0.00470	0.0100	1	03/21/2015 16:08	WG775839
Methylene Chloride	U		0.00100	0.00500	1	03/21/2015 16:08	WG775839
4-Methyl-2-pentanone (MIBK)	U		0.00190	0.0100	1	03/21/2015 16:08	WG775839
Methyl tert-butyl ether	U		0.000210	0.00100	1	03/21/2015 16:08	WG775839
Naphthalene	U		0.00100	0.00500	1	03/21/2015 16:08	WG775839
n-Propylbenzene	U		0.000210	0.00100	1	03/21/2015 16:08	WG775839
Styrene	U		0.000230	0.00100	1	03/21/2015 16:08	WG775839
1,1,1,2-Tetrachloroethane	U		0.000260	0.00100	1	03/21/2015 16:08	WG775839
1,1,2,2-Tetrachloroethane	U		0.000360	0.00100	1	03/21/2015 16:08	WG775839
1,1,2-Trichlorotrifluoroethane	U		0.000360	0.00100	1	03/21/2015 16:08	WG775839
Tetrachloroethene	U		0.000280	0.00100	1	03/21/2015 16:08	WG775839
Toluene	U		0.000430	0.00500	1	03/21/2015 16:08	WG775839
1,2,3-Trichlorobenzene	U		0.000310	0.00100	1	03/21/2015 16:08	WG775839
1,2,4-Trichlorobenzene	U		0.000390	0.00100	1	03/21/2015 16:08	WG775839
1,1,1-Trichloroethane	U		0.000286	0.00100	1	03/21/2015 16:08	WG775839
1,1,2-Trichloroethane	U		0.000280	0.00100	1	03/21/2015 16:08	WG775839
Trichloroethene	U		0.000280	0.00100	1	03/21/2015 16:08	WG775839
Trichlorofluoromethane	U		0.000380	0.00500	1	03/21/2015 16:08	WG775839
1,2,3-Trichloropropane	U		0.000740	0.00250	1	03/21/2015 16:08	WG775839
1,2,4-Trimethylbenzene	U		0.000210	0.00100	1	03/21/2015 16:08	WG775839
1,2,3-Trimethylbenzene	U		0.000290	0.00100	1	03/21/2015 16:08	WG775839
1,3,5-Trimethylbenzene	U		0.000270	0.00100	1	03/21/2015 16:08	WG775839
Vinyl chloride	U		0.000290	0.00100	1	03/21/2015 16:08	WG775839
Xylenes, Total	U		0.000700	0.00300	1	03/21/2015 16:08	WG775839
(S) Toluene-d8	*109*			*88.5-111*		*03/21/2015 16:08*	WG775839
(S) Dibromofluoromethane	*106*			*78.3-121*		*03/21/2015 16:08*	WG775839
(S) 4-Bromofluorobenzene	*100*			*71.0-126*		*03/21/2015 16:08*	WG775839

Semi-Volatile Organic Compounds (GC) by Method TX 1005

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH C6 - C12	U		15.0	50.0	1	03/19/2015 13:35	WG776698
TPH C12 - C28	U		15.0	50.0	1	03/19/2015 13:35	WG776698
TPH C28 - C35	U		15.0	50.0	1	03/19/2015 13:35	WG776698
TPH C6 - C35	U		15.0	50.0	1	03/19/2015 13:35	WG776698
(S) o-Terphenyl	*97.8*			*70.0-130*		*03/19/2015 13:35*	WG776698

Semi-Volatile Organic Compounds (GC) by Method 8151

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
2,4-D	U		0.0230	0.0700	1	03/21/2015 21:07	WG776018
Dalapon	U		0.270	0.800	1	03/21/2015 21:07	WG776018
2,4-DB	U		0.0230	0.0700	1	03/21/2015 21:07	WG776018
Dicamba	U		0.0230	0.0700	1	03/21/2015 21:07	WG776018
Dichloroprop	U		0.0230	0.0700	1	03/21/2015 21:07	WG776018
Dinoseb	U		0.0230	0.0700	1	03/21/2015 21:07	WG776018
MCPA	U		2.20	6.50	1	03/21/2015 21:07	WG776018

Semi-Volatile Organic Compounds (GC) by Method 8151

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
MCPP	U		2.20	6.50	1	03/21/2015 21:07	WG776018
2,4,5-T	U		0.0230	0.0700	1	03/21/2015 21:07	WG776018
2,4,5-TP (Silvex)	U		0.0230	0.0700	1	03/21/2015 21:07	WG776018
(S) 2,4-Dichlorophenyl Acetic Acid	*56.1*			*23.5-129*		*03/21/2015 21:07*	WG776018

Pesticides (GC) by Method 8081

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Aldrin	U		0.00140	0.0200	1	03/19/2015 21:18	WG776101
Alpha BHC	U		0.00140	0.0200	1	03/19/2015 21:18	WG776101
Beta BHC	U		0.00160	0.0200	1	03/19/2015 21:18	WG776101
Delta BHC	U		0.00140	0.0200	1	03/19/2015 21:18	WG776101
Gamma BHC	U		0.00140	0.0200	1	03/19/2015 21:18	WG776101
Chlordane	U		0.0390	0.200	1	03/19/2015 21:18	WG776101
4,4-DDD	U		0.00160	0.0200	1	03/19/2015 21:18	WG776101
4,4-DDE	U		0.00150	0.0200	1	03/19/2015 21:18	WG776101
4,4-DDT	U		0.00200	0.0200	1	03/19/2015 21:18	WG776101
Dieldrin	U		0.00150	0.0200	1	03/19/2015 21:18	WG776101
Endosulfan I	U		0.00150	0.0200	1	03/19/2015 21:18	WG776101
Endosulfan II	U		0.00160	0.0200	1	03/19/2015 21:18	WG776101
Endosulfan sulfate	U		0.00150	0.0200	1	03/19/2015 21:18	WG776101
Endrin	U		0.00160	0.0200	1	03/19/2015 21:18	WG776101
Endrin aldehyde	U		0.00130	0.0200	1	03/19/2015 21:18	WG776101
Endrin ketone	U		0.00160	0.0200	1	03/19/2015 21:18	WG776101
Hexachlorobenzene	U		0.00120	0.0200	1	03/19/2015 21:18	WG776101
Heptachlor	U		0.00150	0.0200	1	03/19/2015 21:18	WG776101
Heptachlor epoxide	U		0.00160	0.0200	1	03/19/2015 21:18	WG776101
Methoxychlor	U		0.00180	0.0200	1	03/19/2015 21:18	WG776101
Toxaphene	U		0.0360	0.400	1	03/19/2015 21:18	WG776101
(S) Decachlorobiphenyl	*57.7*			*10.0-143*		*03/19/2015 21:18*	WG776101
(S) Tetrachloro-m-xylene	*90.8*			*29.2-144*		*03/19/2015 21:18*	WG776101

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.00640	0.0330	1	03/19/2015 23:37	WG776092
Acenaphthylene	U		0.00670	0.0330	1	03/19/2015 23:37	WG776092
Anthracene	U		0.00630	0.0330	1	03/19/2015 23:37	WG776092
Benzidine	U		0.0640	0.333	1	03/19/2015 23:37	WG776092
Benzo(a)anthracene	U		0.00430	0.0330	1	03/19/2015 23:37	WG776092
Benzo(b)fluoranthene	U		0.00700	0.0330	1	03/19/2015 23:37	WG776092
Benzo(k)fluoranthene	U		0.00580	0.0330	1	03/19/2015 23:37	WG776092
Benzo(g,h,i)perylene	U		0.00720	0.0330	1	03/19/2015 23:37	WG776092
Benzo(a)pyrene	U		0.00550	0.0330	1	03/19/2015 23:37	WG776092
Bis(2-chlorethoxy)methane	U		0.00770	0.333	1	03/19/2015 23:37	WG776092
Bis(2-chloroethyl)ether	U		0.00900	0.333	1	03/19/2015 23:37	WG776092
Bis(2-chloroisopropyl)ether	U		0.00760	0.333	1	03/19/2015 23:37	WG776092
4-Bromophenyl-phenylether	U		0.0110	0.333	1	03/19/2015 23:37	WG776092
2-Chloronaphthalene	U		0.00640	0.0330	1	03/19/2015 23:37	WG776092
4-Chlorophenyl-phenylether	U		0.00630	0.333	1	03/19/2015 23:37	WG776092
Chrysene	U		0.00560	0.0330	1	03/19/2015 23:37	WG776092
Dibenz(a,h)anthracene	U		0.00820	0.0330	1	03/19/2015 23:37	WG776092
3,3-Dichlorobenzidine	U		0.0790	0.333	1	03/19/2015 23:37	WG776092
2,4-Dinitrotoluene	U		0.00610	0.333	1	03/19/2015 23:37	WG776092
2,6-Dinitrotoluene	U		0.00740	0.333	1	03/19/2015 23:37	WG776092

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Fluoranthene	U		0.00500	0.0330	1	03/19/2015 23:37	WG776092
Fluorene	U		0.00680	0.0330	1	03/19/2015 23:37	WG776092
Hexachlorobenzene	U		0.00860	0.333	1	03/19/2015 23:37	WG776092
Hexachloro-1,3-butadiene	U		0.0100	0.333	1	03/19/2015 23:37	WG776092
Hexachlorocyclopentadiene	U		0.0590	0.333	1	03/19/2015 23:37	WG776092
Hexachloroethane	U		0.0130	0.333	1	03/19/2015 23:37	WG776092
Indeno(1,2,3-cd)pyrene	U		0.00770	0.0330	1	03/19/2015 23:37	WG776092
Isophorone	U		0.00520	0.333	1	03/19/2015 23:37	WG776092
Naphthalene	U		0.00890	0.0330	1	03/19/2015 23:37	WG776092
Nitrobenzene	U		0.00700	0.333	1	03/19/2015 23:37	WG776092
n-Nitrosodimethylamine	U		0.0650	0.333	1	03/19/2015 23:37	WG776092
n-Nitrosodiphenylamine	U		0.00590	0.333	1	03/19/2015 23:37	WG776092
n-Nitrosodi-n-propylamine	U		0.00910	0.333	1	03/19/2015 23:37	WG776092
Phenanthrene	U		0.00530	0.0330	1	03/19/2015 23:37	WG776092
Benzylbutyl phthalate	U		0.0100	0.333	1	03/19/2015 23:37	WG776092
Bis(2-ethylhexyl)phthalate	U		0.0120	0.333	1	03/19/2015 23:37	WG776092
Di-n-butyl phthalate	U		0.0110	0.333	1	03/19/2015 23:37	WG776092
Diethyl phthalate	U		0.00690	0.333	1	03/19/2015 23:37	WG776092
Dimethyl phthalate	U		0.00540	0.333	1	03/19/2015 23:37	WG776092
Di-n-octyl phthalate	U		0.00910	0.333	1	03/19/2015 23:37	WG776092
Pyrene	U		0.0120	0.0330	1	03/19/2015 23:37	WG776092
1,2,4-Trichlorobenzene	U		0.00880	0.333	1	03/19/2015 23:37	WG776092
4-Chloro-3-methylphenol	U		0.00480	0.333	1	03/19/2015 23:37	WG776092
2-Chlorophenol	U		0.00830	0.333	1	03/19/2015 23:37	WG776092
2,4-Dichlorophenol	U		0.00750	0.333	1	03/19/2015 23:37	WG776092
2,4-Dimethylphenol	U		0.0470	0.333	1	03/19/2015 23:37	WG776092
4,6-Dinitro-2-methylphenol	U		0.120	0.333	1	03/19/2015 23:37	WG776092
2,4-Dinitrophenol	U		0.0980	0.333	1	03/19/2015 23:37	WG776092
2-Nitrophenol	U		0.0130	0.333	1	03/19/2015 23:37	WG776092
4-Nitrophenol	U		0.0520	0.333	1	03/19/2015 23:37	WG776092
Pentachlorophenol	U		0.0480	0.333	1	03/19/2015 23:37	WG776092
Phenol	U		0.00700	0.333	1	03/19/2015 23:37	WG776092
2,4,6-Trichlorophenol	U		0.00780	0.333	1	03/19/2015 23:37	WG776092
(S) 2-Fluorophenol	*46.3*			*21.1-116*		*03/19/2015 23:37*	WG776092
(S) Phenol-d5	*49.7*			*26.3-121*		*03/19/2015 23:37*	WG776092
(S) Nitrobenzene-d5	*48.0*			*21.9-129*		*03/19/2015 23:37*	WG776092
(S) 2-Fluorobiphenyl	*53.3*			*34.9-129*		*03/19/2015 23:37*	WG776092
(S) 2,4,6-Tribromophenol	*66.1*			*21.6-142*		*03/19/2015 23:37*	WG776092
(S) p-Terphenyl-d14	*61.4*			*21.5-128*		*03/19/2015 23:37*	WG776092

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	83.6		1	03/19/2015 06:39	WG776248

Mercury by Method 7471A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.00280	0.0200	1	03/17/2015 08:10	WG776002

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	1.36	J	0.650	2.00	1	03/19/2015 11:06	WG776631
Barium	16.6		0.170	0.500	1	03/19/2015 11:06	WG776631
Cadmium	U		0.0700	0.500	1	03/19/2015 11:06	WG776631
Chromium	7.56		0.140	1.00	1	03/19/2015 11:06	WG776631
Lead	4.99		0.190	0.500	1	03/19/2015 11:06	WG776631
Selenium	U		0.740	2.00	1	03/19/2015 11:06	WG776631
Silver	U		0.280	1.00	1	03/19/2015 11:06	WG776631

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0100	1.00	1	03/24/2015 03:14	WG777645
Acrylonitrile	U		0.00180	0.0100	1	03/24/2015 03:14	WG777645
Benzene	U		0.000270	0.00100	1	03/24/2015 03:14	WG777645
Bromobenzene	U		0.000280	0.00100	1	03/24/2015 03:14	WG777645
Bromodichloromethane	U		0.000250	0.00125	1	03/24/2015 03:14	WG777645
Bromoform	U		0.000420	0.00100	1	03/24/2015 03:14	WG777645
Bromomethane	U		0.00130	0.00500	1	03/24/2015 03:14	WG777645
n-Butylbenzene	U		0.000260	0.00100	1	03/24/2015 03:14	WG777645
sec-Butylbenzene	U		0.000200	0.00100	1	03/24/2015 03:14	WG777645
tert-Butylbenzene	U		0.000210	0.00100	1	03/24/2015 03:14	WG777645
Carbon tetrachloride	U		0.000330	0.00100	1	03/24/2015 03:14	WG777645
Chlorobenzene	U		0.000210	0.00100	1	03/24/2015 03:14	WG777645
Chlorodibromomethane	U		0.000370	0.00100	1	03/24/2015 03:14	WG777645
Chloroethane	U		0.000950	0.00500	1	03/24/2015 03:14	WG777645
2-Chloroethyl vinyl ether	U		0.00230	0.0500	1	03/24/2015 03:14	WG777645
Chloroform	U		0.000230	0.00500	1	03/24/2015 03:14	WG777645
Chloromethane	U		0.000380	0.00250	1	03/24/2015 03:14	WG777645
2-Chlorotoluene	U		0.000300	0.00100	1	03/24/2015 03:14	WG777645
4-Chlorotoluene	U		0.000240	0.00100	1	03/24/2015 03:14	WG777645
1,2-Dibromo-3-Chloropropane	U		0.00100	0.00500	1	03/24/2015 03:14	WG777645
1,2-Dibromoethane	U		0.000340	0.00100	1	03/24/2015 03:14	WG777645
Dibromomethane	U		0.000380	0.00100	1	03/24/2015 03:14	WG777645
1,2-Dichlorobenzene	U		0.000300	0.00100	1	03/24/2015 03:14	WG777645
1,3-Dichlorobenzene	U		0.000240	0.00100	1	03/24/2015 03:14	WG777645
1,4-Dichlorobenzene	U		0.000230	0.00100	1	03/24/2015 03:14	WG777645
Dichlorodifluoromethane	U		0.000710	0.00500	1	03/24/2015 03:14	WG777645
1,1-Dichloroethane	U		0.000200	0.00100	1	03/24/2015 03:14	WG777645
1,2-Dichloroethane	U		0.000260	0.00100	1	03/24/2015 03:14	WG777645
1,1-Dichloroethene	U		0.000300	0.00100	1	03/24/2015 03:14	WG777645
cis-1,2-Dichloroethene	U		0.000240	0.00100	1	03/24/2015 03:14	WG777645
trans-1,2-Dichloroethene	U		0.000260	0.00100	1	03/24/2015 03:14	WG777645
1,2-Dichloropropane	U		0.000360	0.00100	1	03/24/2015 03:14	WG777645
1,1-Dichloropropene	U		0.000320	0.00100	1	03/24/2015 03:14	WG777645
1,3-Dichloropropane	U		0.000210	0.00100	1	03/24/2015 03:14	WG777645

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
cis-1,3-Dichloropropene	U		0.000260	0.00100	1	03/24/2015 03:14	WG777645
trans-1,3-Dichloropropene	U		0.000270	0.00100	1	03/24/2015 03:14	WG777645
2,2-Dichloropropane	U		0.000280	0.00100	1	03/24/2015 03:14	WG777645
Di-isopropyl ether	U		0.000250	0.00100	1	03/24/2015 03:14	WG777645
Ethylbenzene	U		0.000300	0.00100	1	03/24/2015 03:14	WG777645
Hexachloro-1,3-butadiene	U		0.000340	0.00100	1	03/24/2015 03:14	WG777645
Isopropylbenzene	U		0.000240	0.00100	1	03/24/2015 03:14	WG777645
p-Isopropyltoluene	U		0.000200	0.00100	1	03/24/2015 03:14	WG777645
2-Butanone (MEK)	U		0.00470	0.0100	1	03/24/2015 03:14	WG777645
Methylene Chloride	U		0.00100	0.00500	1	03/24/2015 03:14	WG777645
4-Methyl-2-pentanone (MIBK)	U		0.00190	0.0100	1	03/24/2015 03:14	WG777645
Methyl tert-butyl ether	U		0.000210	0.00100	1	03/24/2015 03:14	WG777645
Naphthalene	U		0.00100	0.00500	1	03/24/2015 03:14	WG777645
n-Propylbenzene	U		0.000210	0.00100	1	03/24/2015 03:14	WG777645
Styrene	U		0.000230	0.00100	1	03/24/2015 03:14	WG777645
1,1,1,2-Tetrachloroethane	U		0.000260	0.00100	1	03/24/2015 03:14	WG777645
1,1,2,2-Tetrachloroethane	U		0.000360	0.00100	1	03/24/2015 03:14	WG777645
1,1,2-Trichlorotrifluoroethane	U		0.000360	0.00100	1	03/24/2015 03:14	WG777645
Tetrachloroethene	U		0.000280	0.00100	1	03/24/2015 03:14	WG777645
Toluene	U		0.000430	0.00500	1	03/24/2015 03:14	WG777645
1,2,3-Trichlorobenzene	U		0.000310	0.00100	1	03/24/2015 03:14	WG777645
1,2,4-Trichlorobenzene	U		0.000390	0.00100	1	03/24/2015 03:14	WG777645
1,1,1-Trichloroethane	U		0.000286	0.00100	1	03/24/2015 03:14	WG777645
1,1,2-Trichloroethane	U		0.000280	0.00100	1	03/24/2015 03:14	WG777645
Trichloroethene	U		0.000280	0.00100	1	03/24/2015 03:14	WG777645
Trichlorofluoromethane	U		0.000380	0.00500	1	03/24/2015 03:14	WG777645
1,2,3-Trichloropropane	U		0.000740	0.00250	1	03/24/2015 03:14	WG777645
1,2,4-Trimethylbenzene	U		0.000210	0.00100	1	03/24/2015 03:14	WG777645
1,2,3-Trimethylbenzene	U		0.000290	0.00100	1	03/24/2015 03:14	WG777645
1,3,5-Trimethylbenzene	U		0.000270	0.00100	1	03/24/2015 03:14	WG777645
Vinyl chloride	U		0.000290	0.00100	1	03/24/2015 03:14	WG777645
Xylenes, Total	U		0.000700	0.00300	1	03/24/2015 03:14	WG777645
(S) Toluene-d8	*106*			*88.5-111*		*03/24/2015 03:14*	WG777645
(S) Dibromofluoromethane	*100*			*78.3-121*		*03/24/2015 03:14*	WG777645
(S) 4-Bromofluorobenzene	*101*			*71.0-126*		*03/24/2015 03:14*	WG777645

Semi-Volatile Organic Compounds (GC) by Method TX 1005

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH C6 - C12	U		15.0	50.0	1	03/19/2015 13:47	WG776698
TPH C12 - C28	U		15.0	50.0	1	03/19/2015 13:47	WG776698
TPH C28 - C35	U		15.0	50.0	1	03/19/2015 13:47	WG776698
TPH C6 - C35	U		15.0	50.0	1	03/19/2015 13:47	WG776698
(S) o-Terphenyl	*99.0*			*70.0-130*		*03/19/2015 13:47*	WG776698

Semi-Volatile Organic Compounds (GC) by Method 8151

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
2,4-D	U		0.0230	0.0700	1	03/21/2015 21:19	WG776018
Dalapon	U		0.270	0.800	1	03/21/2015 21:19	WG776018
2,4-DB	U		0.0230	0.0700	1	03/21/2015 21:19	WG776018
Dicamba	U		0.0230	0.0700	1	03/21/2015 21:19	WG776018
Dichloroprop	U		0.0230	0.0700	1	03/21/2015 21:19	WG776018
Dinoseb	U		0.0230	0.0700	1	03/21/2015 21:19	WG776018
MCPA	U		2.20	6.50	1	03/21/2015 21:19	WG776018

Semi-Volatile Organic Compounds (GC) by Method 8151

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
MCPP	U		2.20	6.50	1	03/21/2015 21:19	WG776018
2,4,5-T	U		0.0230	0.0700	1	03/21/2015 21:19	WG776018
2,4,5-TP (Silvex)	U		0.0230	0.0700	1	03/21/2015 21:19	WG776018
(S) 2,4-Dichlorophenyl Acetic Acid	*61.9*			*23.5-129*		*03/21/2015 21:19*	WG776018

Pesticides (GC) by Method 8081

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.00140	0.0200	1	03/19/2015 21:32	WG776101
Alpha BHC	U		0.00140	0.0200	1	03/19/2015 21:32	WG776101
Beta BHC	U		0.00160	0.0200	1	03/19/2015 21:32	WG776101
Delta BHC	U		0.00140	0.0200	1	03/19/2015 21:32	WG776101
Gamma BHC	U		0.00140	0.0200	1	03/19/2015 21:32	WG776101
Chlordane	U		0.0390	0.200	1	03/19/2015 21:32	WG776101
4,4-DDD	U		0.00160	0.0200	1	03/19/2015 21:32	WG776101
4,4-DDE	U		0.00150	0.0200	1	03/19/2015 21:32	WG776101
4,4-DDT	U		0.00200	0.0200	1	03/19/2015 21:32	WG776101
Dieldrin	U		0.00150	0.0200	1	03/19/2015 21:32	WG776101
Endosulfan I	U		0.00150	0.0200	1	03/19/2015 21:32	WG776101
Endosulfan II	U		0.00160	0.0200	1	03/19/2015 21:32	WG776101
Endosulfan sulfate	U		0.00150	0.0200	1	03/19/2015 21:32	WG776101
Endrin	U		0.00160	0.0200	1	03/19/2015 21:32	WG776101
Endrin aldehyde	U		0.00130	0.0200	1	03/19/2015 21:32	WG776101
Endrin ketone	U		0.00160	0.0200	1	03/19/2015 21:32	WG776101
Hexachlorobenzene	U		0.00120	0.0200	1	03/19/2015 21:32	WG776101
Heptachlor	U		0.00150	0.0200	1	03/19/2015 21:32	WG776101
Heptachlor epoxide	U		0.00160	0.0200	1	03/19/2015 21:32	WG776101
Methoxychlor	U		0.00180	0.0200	1	03/19/2015 21:32	WG776101
Toxaphene	U		0.0360	0.400	1	03/19/2015 21:32	WG776101
(S) Decachlorobiphenyl	*63.6*			*10.0-143*		*03/19/2015 21:32*	WG776101
(S) Tetrachloro-m-xylene	*101*			*29.2-144*		*03/19/2015 21:32*	WG776101

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acenaphthene	U		0.00640	0.0330	1	03/19/2015 23:16	WG776092
Acenaphthylene	U		0.00670	0.0330	1	03/19/2015 23:16	WG776092
Anthracene	U		0.00630	0.0330	1	03/19/2015 23:16	WG776092
Benzidine	U		0.0640	0.333	1	03/19/2015 23:16	WG776092
Benzo(a)anthracene	U		0.00430	0.0330	1	03/19/2015 23:16	WG776092
Benzo(b)fluoranthene	U		0.00700	0.0330	1	03/19/2015 23:16	WG776092
Benzo(k)fluoranthene	U		0.00580	0.0330	1	03/19/2015 23:16	WG776092
Benzo(g,h,i)perylene	U		0.00720	0.0330	1	03/19/2015 23:16	WG776092
Benzo(a)pyrene	U		0.00550	0.0330	1	03/19/2015 23:16	WG776092
Bis(2-chlorethoxy)methane	U		0.00770	0.333	1	03/19/2015 23:16	WG776092
Bis(2-chloroethyl)ether	U		0.00900	0.333	1	03/19/2015 23:16	WG776092
Bis(2-chloroisopropyl)ether	U		0.00760	0.333	1	03/19/2015 23:16	WG776092
4-Bromophenyl-phenylether	U		0.0110	0.333	1	03/19/2015 23:16	WG776092
2-Chloronaphthalene	U		0.00640	0.0330	1	03/19/2015 23:16	WG776092
4-Chlorophenyl-phenylether	U		0.00630	0.333	1	03/19/2015 23:16	WG776092
Chrysene	U		0.00560	0.0330	1	03/19/2015 23:16	WG776092
Dibenz(a,h)anthracene	U		0.00820	0.0330	1	03/19/2015 23:16	WG776092
3,3-Dichlorobenzidine	U		0.0790	0.333	1	03/19/2015 23:16	WG776092
2,4-Dinitrotoluene	U		0.00610	0.333	1	03/19/2015 23:16	WG776092
2,6-Dinitrotoluene	U		0.00740	0.333	1	03/19/2015 23:16	WG776092

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Fluoranthene	U		0.00500	0.0330	1	03/19/2015 23:16	WG776092
Fluorene	U		0.00680	0.0330	1	03/19/2015 23:16	WG776092
Hexachlorobenzene	U		0.00860	0.333	1	03/19/2015 23:16	WG776092
Hexachloro-1,3-butadiene	U		0.0100	0.333	1	03/19/2015 23:16	WG776092
Hexachlorocyclopentadiene	U		0.0590	0.333	1	03/19/2015 23:16	WG776092
Hexachloroethane	U		0.0130	0.333	1	03/19/2015 23:16	WG776092
Indeno(1,2,3-cd)pyrene	U		0.00770	0.0330	1	03/19/2015 23:16	WG776092
Isophorone	U		0.00520	0.333	1	03/19/2015 23:16	WG776092
Naphthalene	U		0.00890	0.0330	1	03/19/2015 23:16	WG776092
Nitrobenzene	U		0.00700	0.333	1	03/19/2015 23:16	WG776092
n-Nitrosodimethylamine	U		0.0650	0.333	1	03/19/2015 23:16	WG776092
n-Nitrosodiphenylamine	U		0.00590	0.333	1	03/19/2015 23:16	WG776092
n-Nitrosodi-n-propylamine	U		0.00910	0.333	1	03/19/2015 23:16	WG776092
Phenanthrene	U		0.00530	0.0330	1	03/19/2015 23:16	WG776092
Benzylbutyl phthalate	U		0.0100	0.333	1	03/19/2015 23:16	WG776092
Bis(2-ethylhexyl)phthalate	U		0.0120	0.333	1	03/19/2015 23:16	WG776092
Di-n-butyl phthalate	U		0.0110	0.333	1	03/19/2015 23:16	WG776092
Diethyl phthalate	U		0.00690	0.333	1	03/19/2015 23:16	WG776092
Dimethyl phthalate	U		0.00540	0.333	1	03/19/2015 23:16	WG776092
Di-n-octyl phthalate	U		0.00910	0.333	1	03/19/2015 23:16	WG776092
Pyrene	U		0.0120	0.0330	1	03/19/2015 23:16	WG776092
1,2,4-Trichlorobenzene	U		0.00880	0.333	1	03/19/2015 23:16	WG776092
4-Chloro-3-methylphenol	U		0.00480	0.333	1	03/19/2015 23:16	WG776092
2-Chlorophenol	U		0.00830	0.333	1	03/19/2015 23:16	WG776092
2,4-Dichlorophenol	U		0.00750	0.333	1	03/19/2015 23:16	WG776092
2,4-Dimethylphenol	U		0.0470	0.333	1	03/19/2015 23:16	WG776092
4,6-Dinitro-2-methylphenol	U		0.120	0.333	1	03/19/2015 23:16	WG776092
2,4-Dinitrophenol	U		0.0980	0.333	1	03/19/2015 23:16	WG776092
2-Nitrophenol	U		0.0130	0.333	1	03/19/2015 23:16	WG776092
4-Nitrophenol	U		0.0520	0.333	1	03/19/2015 23:16	WG776092
Pentachlorophenol	U		0.0480	0.333	1	03/19/2015 23:16	WG776092
Phenol	U		0.00700	0.333	1	03/19/2015 23:16	WG776092
2,4,6-Trichlorophenol	U		0.00780	0.333	1	03/19/2015 23:16	WG776092
(S) 2-Fluorophenol	*60.8*			*21.1-116*		*03/19/2015 23:16*	WG776092
(S) Phenol-d5	*61.4*			*26.3-121*		*03/19/2015 23:16*	WG776092
(S) Nitrobenzene-d5	*56.6*			*21.9-129*		*03/19/2015 23:16*	WG776092
(S) 2-Fluorobiphenyl	*66.5*			*34.9-129*		*03/19/2015 23:16*	WG776092
(S) 2,4,6-Tribromophenol	*70.3*			*21.6-142*		*03/19/2015 23:16*	WG776092
(S) p-Terphenyl-d14	*58.8*			*21.5-128*		*03/19/2015 23:16*	WG776092

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		10.0	50.0	1	03/21/2015 21:20	WG775869
Acrolein	U		8.90	50.0	1	03/21/2015 21:20	WG775869
Acrylonitrile	U		1.90	10.0	1	03/21/2015 21:20	WG775869
Benzene	U		0.330	1.00	1	03/21/2015 21:20	WG775869
Bromobenzene	U		0.350	1.00	1	03/21/2015 21:20	WG775869
Bromodichloromethane	U		0.380	1.00	1	03/21/2015 21:20	WG775869
Bromoform	U		0.470	1.00	1	03/21/2015 21:20	WG775869
Bromomethane	U		0.870	5.00	1	03/21/2015 21:20	WG775869
n-Butylbenzene	U		0.360	1.00	1	03/21/2015 21:20	WG775869
sec-Butylbenzene	U		0.360	1.00	1	03/21/2015 21:20	WG775869
tert-Butylbenzene	U		0.400	1.00	1	03/21/2015 21:20	WG775869
Carbon tetrachloride	U		0.380	1.00	1	03/21/2015 21:20	WG775869
Chlorobenzene	U		0.350	1.00	1	03/21/2015 21:20	WG775869
Chlorodibromomethane	U		0.330	1.00	1	03/21/2015 21:20	WG775869
Chloroethane	U		0.450	5.00	1	03/21/2015 21:20	WG775869
2-Chloroethyl vinyl ether	U		3.00	50.0	1	03/21/2015 21:20	WG775869
Chloroform	U		0.320	5.00	1	03/21/2015 21:20	WG775869
Chloromethane	U		0.280	2.50	1	03/21/2015 21:20	WG775869
2-Chlorotoluene	U		0.380	1.00	1	03/21/2015 21:20	WG775869
4-Chlorotoluene	U		0.350	1.00	1	03/21/2015 21:20	WG775869
1,2-Dibromo-3-Chloropropane	U		1.30	5.00	1	03/21/2015 21:20	WG775869
1,2-Dibromoethane	U		0.380	1.00	1	03/21/2015 21:20	WG775869
Dibromomethane	U		0.350	1.00	1	03/21/2015 21:20	WG775869
1,2-Dichlorobenzene	U		0.350	1.00	1	03/21/2015 21:20	WG775869
1,3-Dichlorobenzene	U		0.220	1.00	1	03/21/2015 21:20	WG775869
1,4-Dichlorobenzene	U		0.270	1.00	1	03/21/2015 21:20	WG775869
Dichlorodifluoromethane	U		0.550	5.00	1	03/21/2015 21:20	WG775869
1,1-Dichloroethane	U		0.260	1.00	1	03/21/2015 21:20	WG775869
1,2-Dichloroethane	U		0.360	1.00	1	03/21/2015 21:20	WG775869
1,1-Dichloroethene	U		0.400	1.00	1	03/21/2015 21:20	WG775869
cis-1,2-Dichloroethene	U		0.260	1.00	1	03/21/2015 21:20	WG775869
trans-1,2-Dichloroethene	U		0.400	1.00	1	03/21/2015 21:20	WG775869
1,2-Dichloropropane	U		0.310	1.00	1	03/21/2015 21:20	WG775869
1,1-Dichloropropene	U		0.350	1.00	1	03/21/2015 21:20	WG775869
1,3-Dichloropropane	U		0.370	1.00	1	03/21/2015 21:20	WG775869
cis-1,3-Dichloropropene	U		0.420	1.00	1	03/21/2015 21:20	WG775869
trans-1,3-Dichloropropene	U		0.420	1.00	1	03/21/2015 21:20	WG775869
2,2-Dichloropropane	U		0.320	1.00	1	03/21/2015 21:20	WG775869
Di-isopropyl ether	U		0.320	1.00	1	03/21/2015 21:20	WG775869
Ethylbenzene	U		0.380	1.00	1	03/21/2015 21:20	WG775869
Hexachloro-1,3-butadiene	U		0.260	1.00	1	03/21/2015 21:20	WG775869
Isopropylbenzene	U		0.330	1.00	1	03/21/2015 21:20	WG775869
p-Isopropyltoluene	U		0.350	1.00	1	03/21/2015 21:20	WG775869
2-Butanone (MEK)	U		3.90	10.0	1	03/21/2015 21:20	WG775869
Methylene Chloride	U		1.00	5.00	1	03/21/2015 21:20	WG775869
4-Methyl-2-pentanone (MIBK)	U		2.10	10.0	1	03/21/2015 21:20	WG775869
Methyl tert-butyl ether	U		0.370	1.00	1	03/21/2015 21:20	WG775869
Naphthalene	U		1.00	5.00	1	03/21/2015 21:20	WG775869
n-Propylbenzene	U		0.350	1.00	1	03/21/2015 21:20	WG775869
Styrene	U		0.310	1.00	1	03/21/2015 21:20	WG775869
1,1,1,2-Tetrachloroethane	U		0.380	1.00	1	03/21/2015 21:20	WG775869
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	03/21/2015 21:20	WG775869
1,1,2-Trichlorotrifluoroethane	U		0.300	1.00	1	03/21/2015 21:20	WG775869
Tetrachloroethene	U		0.370	1.00	1	03/21/2015 21:20	WG775869
Toluene	U		0.780	5.00	1	03/21/2015 21:20	WG775869
1,2,3-Trichlorobenzene	U		0.230	1.00	1	03/21/2015 21:20	WG775869

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,2,4-Trichlorobenzene	U		0.360	1.00	1	03/21/2015 21:20	WG775869
1,1,1-Trichloroethane	U		0.319	1.00	1	03/21/2015 21:20	WG775869
1,1,2-Trichloroethane	U		0.380	1.00	1	03/21/2015 21:20	WG775869
Trichloroethene	U		0.400	1.00	1	03/21/2015 21:20	WG775869
Trichlorofluoromethane	U		1.20	5.00	1	03/21/2015 21:20	WG775869
1,2,3-Trichloropropane	U		0.810	2.50	1	03/21/2015 21:20	WG775869
1,2,4-Trimethylbenzene	U		0.370	1.00	1	03/21/2015 21:20	WG775869
1,2,3-Trimethylbenzene	U		0.320	1.00	1	03/21/2015 21:20	WG775869
1,3,5-Trimethylbenzene	U		0.390	1.00	1	03/21/2015 21:20	WG775869
Vinyl chloride	U		0.260	1.00	1	03/21/2015 21:20	WG775869
Xylenes, Total	U		1.10	3.00	1	03/21/2015 21:20	WG775869
(S) Toluene-d8	*108*			*88.5-111*		*03/21/2015 21:20*	WG775869
(S) Dibromofluoromethane	*99.1*			*78.3-121*		*03/21/2015 21:20*	WG775869
(S) 4-Bromofluorobenzene	*108*			*71.0-126*		*03/21/2015 21:20*	WG775869

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	86.8		1	03/19/2015 06:39	WG776248

Mercury by Method 7471A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.00280	0.0200	1	03/17/2015 08:17	WG776002

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	2.97		0.650	2.00	1	03/19/2015 11:11	WG776631
Barium	50.2		0.170	0.500	1	03/19/2015 11:11	WG776631
Cadmium	U		0.0700	0.500	1	03/19/2015 11:11	WG776631
Chromium	9.17		0.140	1.00	1	03/19/2015 11:11	WG776631
Lead	6.38		0.190	0.500	1	03/19/2015 11:11	WG776631
Selenium	U		0.740	2.00	1	03/19/2015 11:11	WG776631
Silver	U		0.280	1.00	1	03/19/2015 11:11	WG776631

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0100	1.00	1	03/21/2015 16:49	WG775839
Acrylonitrile	U		0.00180	0.0100	1	03/21/2015 16:49	WG775839
Benzene	U		0.000270	0.00100	1	03/21/2015 16:49	WG775839
Bromobenzene	U		0.000280	0.00100	1	03/21/2015 16:49	WG775839
Bromodichloromethane	U		0.000250	0.00125	1	03/21/2015 16:49	WG775839
Bromoform	U		0.000420	0.00100	1	03/21/2015 16:49	WG775839
Bromomethane	U		0.00130	0.00500	1	03/21/2015 16:49	WG775839
n-Butylbenzene	U		0.000260	0.00100	1	03/21/2015 16:49	WG775839
sec-Butylbenzene	U		0.000200	0.00100	1	03/21/2015 16:49	WG775839
tert-Butylbenzene	U		0.000210	0.00100	1	03/21/2015 16:49	WG775839
Carbon tetrachloride	U		0.000330	0.00100	1	03/21/2015 16:49	WG775839
Chlorobenzene	U		0.000210	0.00100	1	03/21/2015 16:49	WG775839
Chlorodibromomethane	U		0.000370	0.00100	1	03/21/2015 16:49	WG775839
Chloroethane	U		0.000950	0.00500	1	03/21/2015 16:49	WG775839
2-Chloroethyl vinyl ether	U		0.00230	0.0500	1	03/21/2015 16:49	WG775839
Chloroform	U		0.000230	0.00500	1	03/21/2015 16:49	WG775839
Chloromethane	U		0.000380	0.00250	1	03/21/2015 16:49	WG775839
2-Chlorotoluene	U		0.000300	0.00100	1	03/21/2015 16:49	WG775839
4-Chlorotoluene	U		0.000240	0.00100	1	03/21/2015 16:49	WG775839
1,2-Dibromo-3-Chloropropane	U		0.00100	0.00500	1	03/21/2015 16:49	WG775839
1,2-Dibromoethane	U		0.000340	0.00100	1	03/21/2015 16:49	WG775839
Dibromomethane	U		0.000380	0.00100	1	03/21/2015 16:49	WG775839
1,2-Dichlorobenzene	U		0.000300	0.00100	1	03/21/2015 16:49	WG775839
1,3-Dichlorobenzene	U		0.000240	0.00100	1	03/21/2015 16:49	WG775839
1,4-Dichlorobenzene	U		0.000230	0.00100	1	03/21/2015 16:49	WG775839
Dichlorodifluoromethane	U		0.000710	0.00500	1	03/21/2015 16:49	WG775839
1,1-Dichloroethane	U		0.000200	0.00100	1	03/21/2015 16:49	WG775839
1,2-Dichloroethane	U		0.000260	0.00100	1	03/21/2015 16:49	WG775839
1,1-Dichloroethene	U		0.000300	0.00100	1	03/21/2015 16:49	WG775839
cis-1,2-Dichloroethene	U		0.000240	0.00100	1	03/21/2015 16:49	WG775839
trans-1,2-Dichloroethene	U		0.000260	0.00100	1	03/21/2015 16:49	WG775839
1,2-Dichloropropane	U		0.000360	0.00100	1	03/21/2015 16:49	WG775839
1,1-Dichloropropene	U		0.000320	0.00100	1	03/21/2015 16:49	WG775839
1,3-Dichloropropane	U		0.000210	0.00100	1	03/21/2015 16:49	WG775839

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
cis-1,3-Dichloropropene	U		0.000260	0.00100	1	03/21/2015 16:49	WG775839
trans-1,3-Dichloropropene	U		0.000270	0.00100	1	03/21/2015 16:49	WG775839
2,2-Dichloropropane	U		0.000280	0.00100	1	03/21/2015 16:49	WG775839
Di-isopropyl ether	U		0.000250	0.00100	1	03/21/2015 16:49	WG775839
Ethylbenzene	U		0.000300	0.00100	1	03/21/2015 16:49	WG775839
Hexachloro-1,3-butadiene	U		0.000340	0.00100	1	03/21/2015 16:49	WG775839
Isopropylbenzene	U		0.000240	0.00100	1	03/21/2015 16:49	WG775839
p-Isopropyltoluene	U		0.000200	0.00100	1	03/21/2015 16:49	WG775839
2-Butanone (MEK)	U		0.00470	0.0100	1	03/21/2015 16:49	WG775839
Methylene Chloride	U		0.00100	0.00500	1	03/21/2015 16:49	WG775839
4-Methyl-2-pentanone (MIBK)	U		0.00190	0.0100	1	03/21/2015 16:49	WG775839
Methyl tert-butyl ether	U		0.000210	0.00100	1	03/21/2015 16:49	WG775839
Naphthalene	U		0.00100	0.00500	1	03/21/2015 16:49	WG775839
n-Propylbenzene	U		0.000210	0.00100	1	03/21/2015 16:49	WG775839
Styrene	U		0.000230	0.00100	1	03/21/2015 16:49	WG775839
1,1,1,2-Tetrachloroethane	U		0.000260	0.00100	1	03/21/2015 16:49	WG775839
1,1,2,2-Tetrachloroethane	U		0.000360	0.00100	1	03/21/2015 16:49	WG775839
1,1,2-Trichlorotrifluoroethane	U		0.000360	0.00100	1	03/21/2015 16:49	WG775839
Tetrachloroethene	U		0.000280	0.00100	1	03/21/2015 16:49	WG775839
Toluene	U		0.000430	0.00500	1	03/21/2015 16:49	WG775839
1,2,3-Trichlorobenzene	U		0.000310	0.00100	1	03/21/2015 16:49	WG775839
1,2,4-Trichlorobenzene	U		0.000390	0.00100	1	03/21/2015 16:49	WG775839
1,1,1-Trichloroethane	U		0.000286	0.00100	1	03/21/2015 16:49	WG775839
1,1,2-Trichloroethane	U		0.000280	0.00100	1	03/21/2015 16:49	WG775839
Trichloroethene	U		0.000280	0.00100	1	03/21/2015 16:49	WG775839
Trichlorofluoromethane	U		0.000380	0.00500	1	03/21/2015 16:49	WG775839
1,2,3-Trichloropropane	U		0.000740	0.00250	1	03/21/2015 16:49	WG775839
1,2,4-Trimethylbenzene	U		0.000210	0.00100	1	03/21/2015 16:49	WG775839
1,2,3-Trimethylbenzene	U		0.000290	0.00100	1	03/21/2015 16:49	WG775839
1,3,5-Trimethylbenzene	U		0.000270	0.00100	1	03/21/2015 16:49	WG775839
Vinyl chloride	U		0.000290	0.00100	1	03/21/2015 16:49	WG775839
Xylenes, Total	U		0.000700	0.00300	1	03/21/2015 16:49	WG775839
(S) Toluene-d8	*109*			*88.5-111*		*03/21/2015 16:49*	WG775839
(S) Dibromofluoromethane	*106*			*78.3-121*		*03/21/2015 16:49*	WG775839
(S) 4-Bromofluorobenzene	*98.4*			*71.0-126*		*03/21/2015 16:49*	WG775839

Semi-Volatile Organic Compounds (GC) by Method TX 1005

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH C6 - C12	U		15.0	50.0	1	03/19/2015 14:00	WG776698
TPH C12 - C28	U		15.0	50.0	1	03/19/2015 14:00	WG776698
TPH C28 - C35	U		15.0	50.0	1	03/19/2015 14:00	WG776698
TPH C6 - C35	U		15.0	50.0	1	03/19/2015 14:00	WG776698
(S) o-Terphenyl	*97.6*			*70.0-130*		*03/19/2015 14:00*	WG776698

Semi-Volatile Organic Compounds (GC) by Method 8151

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
2,4-D	U		0.0230	0.0700	1	03/21/2015 21:32	WG776018
Dalapon	U		0.270	0.800	1	03/21/2015 21:32	WG776018
2,4-DB	U		0.0230	0.0700	1	03/21/2015 21:32	WG776018
Dicamba	U		0.0230	0.0700	1	03/21/2015 21:32	WG776018
Dichloroprop	U		0.0230	0.0700	1	03/21/2015 21:32	WG776018
Dinoseb	U		0.0230	0.0700	1	03/21/2015 21:32	WG776018
MCPA	U		2.20	6.50	1	03/21/2015 21:32	WG776018

Semi-Volatile Organic Compounds (GC) by Method 8151

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
MCPP	U		2.20	6.50	1	03/21/2015 21:32	WG776018
2,4,5-T	U		0.0230	0.0700	1	03/21/2015 21:32	WG776018
2,4,5-TP (Silvex)	U		0.0230	0.0700	1	03/21/2015 21:32	WG776018
(S) 2,4-Dichlorophenyl Acetic Acid	*64.5*			*23.5-129*		*03/21/2015 21:32*	WG776018

Pesticides (GC) by Method 8081

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Aldrin	U		0.00140	0.0200	1	03/19/2015 21:46	WG776101
Alpha BHC	U		0.00140	0.0200	1	03/19/2015 21:46	WG776101
Beta BHC	U		0.00160	0.0200	1	03/19/2015 21:46	WG776101
Delta BHC	U		0.00140	0.0200	1	03/19/2015 21:46	WG776101
Gamma BHC	U		0.00140	0.0200	1	03/19/2015 21:46	WG776101
Chlordane	U		0.0390	0.200	1	03/19/2015 21:46	WG776101
4,4-DDD	U		0.00160	0.0200	1	03/19/2015 21:46	WG776101
4,4-DDE	U		0.00150	0.0200	1	03/19/2015 21:46	WG776101
4,4-DDT	U		0.00200	0.0200	1	03/19/2015 21:46	WG776101
Dieldrin	U		0.00150	0.0200	1	03/19/2015 21:46	WG776101
Endosulfan I	U		0.00150	0.0200	1	03/19/2015 21:46	WG776101
Endosulfan II	U		0.00160	0.0200	1	03/19/2015 21:46	WG776101
Endosulfan sulfate	U		0.00150	0.0200	1	03/19/2015 21:46	WG776101
Endrin	U		0.00160	0.0200	1	03/19/2015 21:46	WG776101
Endrin aldehyde	U		0.00130	0.0200	1	03/19/2015 21:46	WG776101
Endrin ketone	U		0.00160	0.0200	1	03/19/2015 21:46	WG776101
Hexachlorobenzene	U		0.00120	0.0200	1	03/19/2015 21:46	WG776101
Heptachlor	U		0.00150	0.0200	1	03/19/2015 21:46	WG776101
Heptachlor epoxide	U		0.00160	0.0200	1	03/19/2015 21:46	WG776101
Methoxychlor	U		0.00180	0.0200	1	03/19/2015 21:46	WG776101
Toxaphene	U		0.0360	0.400	1	03/19/2015 21:46	WG776101
(S) Decachlorobiphenyl	*81.2*			*10.0-143*		*03/19/2015 21:46*	WG776101
(S) Tetrachloro-m-xylene	*105*			*29.2-144*		*03/19/2015 21:46*	WG776101

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.00640	0.0330	1	03/19/2015 22:54	WG776092
Acenaphthylene	U		0.00670	0.0330	1	03/19/2015 22:54	WG776092
Anthracene	U		0.00630	0.0330	1	03/19/2015 22:54	WG776092
Benzidine	U		0.0640	0.333	1	03/19/2015 22:54	WG776092
Benzo(a)anthracene	U		0.00430	0.0330	1	03/19/2015 22:54	WG776092
Benzo(b)fluoranthene	U		0.00700	0.0330	1	03/19/2015 22:54	WG776092
Benzo(k)fluoranthene	U		0.00580	0.0330	1	03/19/2015 22:54	WG776092
Benzo(g,h,i)perylene	U		0.00720	0.0330	1	03/19/2015 22:54	WG776092
Benzo(a)pyrene	U		0.00550	0.0330	1	03/19/2015 22:54	WG776092
Bis(2-chlorethoxy)methane	U		0.00770	0.333	1	03/19/2015 22:54	WG776092
Bis(2-chloroethyl)ether	U		0.00900	0.333	1	03/19/2015 22:54	WG776092
Bis(2-chloroisopropyl)ether	U		0.00760	0.333	1	03/19/2015 22:54	WG776092
4-Bromophenyl-phenylether	U		0.0110	0.333	1	03/19/2015 22:54	WG776092
2-Chloronaphthalene	U		0.00640	0.0330	1	03/19/2015 22:54	WG776092
4-Chlorophenyl-phenylether	U		0.00630	0.333	1	03/19/2015 22:54	WG776092
Chrysene	U		0.00560	0.0330	1	03/19/2015 22:54	WG776092
Dibenz(a,h)anthracene	U		0.00820	0.0330	1	03/19/2015 22:54	WG776092
3,3-Dichlorobenzidine	U		0.0790	0.333	1	03/19/2015 22:54	WG776092
2,4-Dinitrotoluene	U		0.00610	0.333	1	03/19/2015 22:54	WG776092
2,6-Dinitrotoluene	U		0.00740	0.333	1	03/19/2015 22:54	WG776092

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Fluoranthene	U		0.00500	0.0330	1	03/19/2015 22:54	WG776092
Fluorene	U		0.00680	0.0330	1	03/19/2015 22:54	WG776092
Hexachlorobenzene	U		0.00860	0.333	1	03/19/2015 22:54	WG776092
Hexachloro-1,3-butadiene	U		0.0100	0.333	1	03/19/2015 22:54	WG776092
Hexachlorocyclopentadiene	U		0.0590	0.333	1	03/19/2015 22:54	WG776092
Hexachloroethane	U		0.0130	0.333	1	03/19/2015 22:54	WG776092
Indeno(1,2,3-cd)pyrene	U		0.00770	0.0330	1	03/19/2015 22:54	WG776092
Isophorone	U		0.00520	0.333	1	03/19/2015 22:54	WG776092
Naphthalene	U		0.00890	0.0330	1	03/19/2015 22:54	WG776092
Nitrobenzene	U		0.00700	0.333	1	03/19/2015 22:54	WG776092
n-Nitrosodimethylamine	U		0.0650	0.333	1	03/19/2015 22:54	WG776092
n-Nitrosodiphenylamine	U		0.00590	0.333	1	03/19/2015 22:54	WG776092
n-Nitrosodi-n-propylamine	U		0.00910	0.333	1	03/19/2015 22:54	WG776092
Phenanthrene	U		0.00530	0.0330	1	03/19/2015 22:54	WG776092
Benzylbutyl phthalate	U		0.0100	0.333	1	03/19/2015 22:54	WG776092
Bis(2-ethylhexyl)phthalate	U		0.0120	0.333	1	03/19/2015 22:54	WG776092
Di-n-butyl phthalate	U		0.0110	0.333	1	03/19/2015 22:54	WG776092
Diethyl phthalate	U		0.00690	0.333	1	03/19/2015 22:54	WG776092
Dimethyl phthalate	U		0.00540	0.333	1	03/19/2015 22:54	WG776092
Di-n-octyl phthalate	U		0.00910	0.333	1	03/19/2015 22:54	WG776092
Pyrene	U		0.0120	0.0330	1	03/19/2015 22:54	WG776092
1,2,4-Trichlorobenzene	U		0.00880	0.333	1	03/19/2015 22:54	WG776092
4-Chloro-3-methylphenol	U		0.00480	0.333	1	03/19/2015 22:54	WG776092
2-Chlorophenol	U		0.00830	0.333	1	03/19/2015 22:54	WG776092
2,4-Dichlorophenol	U		0.00750	0.333	1	03/19/2015 22:54	WG776092
2,4-Dimethylphenol	U		0.0470	0.333	1	03/19/2015 22:54	WG776092
4,6-Dinitro-2-methylphenol	U		0.120	0.333	1	03/19/2015 22:54	WG776092
2,4-Dinitrophenol	U		0.0980	0.333	1	03/19/2015 22:54	WG776092
2-Nitrophenol	U		0.0130	0.333	1	03/19/2015 22:54	WG776092
4-Nitrophenol	U		0.0520	0.333	1	03/19/2015 22:54	WG776092
Pentachlorophenol	U		0.0480	0.333	1	03/19/2015 22:54	WG776092
Phenol	U		0.00700	0.333	1	03/19/2015 22:54	WG776092
2,4,6-Trichlorophenol	U		0.00780	0.333	1	03/19/2015 22:54	WG776092
(S) 2-Fluorophenol	*37.1*			*21.1-116*		*03/19/2015 22:54*	WG776092
(S) Phenol-d5	*39.2*			*26.3-121*		*03/19/2015 22:54*	WG776092
(S) Nitrobenzene-d5	*36.6*			*21.9-129*		*03/19/2015 22:54*	WG776092
(S) 2-Fluorobiphenyl	*51.4*			*34.9-129*		*03/19/2015 22:54*	WG776092
(S) 2,4,6-Tribromophenol	*66.0*			*21.6-142*		*03/19/2015 22:54*	WG776092
(S) p-Terphenyl-d14	*56.4*			*21.5-128*		*03/19/2015 22:54*	WG776092

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
	%				
Total Solids	82.7		1	03/19/2015 06:40	WG776248

Mercury by Method 7471A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg	mg/kg			
Mercury	U		0.00280	0.0200	1	03/17/2015 08:20	WG776002

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg	mg/kg			
Arsenic	1.13	J	0.650	2.00	1	03/19/2015 11:15	WG776631
Barium	32.6		0.170	0.500	1	03/19/2015 11:15	WG776631
Cadmium	U		0.0700	0.500	1	03/19/2015 11:15	WG776631
Chromium	9.35		0.140	1.00	1	03/19/2015 11:15	WG776631
Lead	5.93		0.190	0.500	1	03/19/2015 11:15	WG776631
Selenium	1.01	J	0.740	2.00	1	03/19/2015 11:15	WG776631
Silver	U		0.280	1.00	1	03/19/2015 11:15	WG776631

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg	mg/kg			
Acetone	U		0.0100	1.00	1	03/24/2015 03:32	WG777645
Acrylonitrile	U		0.00180	0.0100	1	03/24/2015 03:32	WG777645
Benzene	U		0.000270	0.00100	1	03/24/2015 03:32	WG777645
Bromobenzene	U		0.000280	0.00100	1	03/24/2015 03:32	WG777645
Bromodichloromethane	U		0.000250	0.00125	1	03/24/2015 03:32	WG777645
Bromoform	U		0.000420	0.00100	1	03/24/2015 03:32	WG777645
Bromomethane	U		0.00130	0.00500	1	03/24/2015 03:32	WG777645
n-Butylbenzene	U		0.000260	0.00100	1	03/24/2015 03:32	WG777645
sec-Butylbenzene	U		0.000200	0.00100	1	03/24/2015 03:32	WG777645
tert-Butylbenzene	U		0.000210	0.00100	1	03/24/2015 03:32	WG777645
Carbon tetrachloride	U		0.000330	0.00100	1	03/24/2015 03:32	WG777645
Chlorobenzene	U		0.000210	0.00100	1	03/24/2015 03:32	WG777645
Chlorodibromomethane	U		0.000370	0.00100	1	03/24/2015 03:32	WG777645
Chloroethane	U		0.000950	0.00500	1	03/24/2015 03:32	WG777645
2-Chloroethyl vinyl ether	U		0.00230	0.0500	1	03/24/2015 03:32	WG777645
Chloroform	U		0.000230	0.00500	1	03/24/2015 03:32	WG777645
Chloromethane	U		0.000380	0.00250	1	03/24/2015 03:32	WG777645
2-Chlorotoluene	U		0.000300	0.00100	1	03/24/2015 03:32	WG777645
4-Chlorotoluene	U		0.000240	0.00100	1	03/24/2015 03:32	WG777645
1,2-Dibromo-3-Chloropropane	U		0.00100	0.00500	1	03/24/2015 03:32	WG777645
1,2-Dibromoethane	U		0.000340	0.00100	1	03/24/2015 03:32	WG777645
Dibromomethane	U		0.000380	0.00100	1	03/24/2015 03:32	WG777645
1,2-Dichlorobenzene	U		0.000300	0.00100	1	03/24/2015 03:32	WG777645
1,3-Dichlorobenzene	U		0.000240	0.00100	1	03/24/2015 03:32	WG777645
1,4-Dichlorobenzene	U		0.000230	0.00100	1	03/24/2015 03:32	WG777645
Dichlorodifluoromethane	U		0.000710	0.00500	1	03/24/2015 03:32	WG777645
1,1-Dichloroethane	U		0.000200	0.00100	1	03/24/2015 03:32	WG777645
1,2-Dichloroethane	U		0.000260	0.00100	1	03/24/2015 03:32	WG777645
1,1-Dichloroethene	U		0.000300	0.00100	1	03/24/2015 03:32	WG777645
cis-1,2-Dichloroethene	U		0.000240	0.00100	1	03/24/2015 03:32	WG777645
trans-1,2-Dichloroethene	U		0.000260	0.00100	1	03/24/2015 03:32	WG777645
1,2-Dichloropropane	U		0.000360	0.00100	1	03/24/2015 03:32	WG777645
1,1-Dichloropropene	U		0.000320	0.00100	1	03/24/2015 03:32	WG777645
1,3-Dichloropropane	U		0.000210	0.00100	1	03/24/2015 03:32	WG777645

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
cis-1,3-Dichloropropene	U		0.000260	0.00100	1	03/24/2015 03:32	WG777645
trans-1,3-Dichloropropene	U		0.000270	0.00100	1	03/24/2015 03:32	WG777645
2,2-Dichloropropane	U		0.000280	0.00100	1	03/24/2015 03:32	WG777645
Di-isopropyl ether	U		0.000250	0.00100	1	03/24/2015 03:32	WG777645
Ethylbenzene	U		0.000300	0.00100	1	03/24/2015 03:32	WG777645
Hexachloro-1,3-butadiene	U		0.000340	0.00100	1	03/24/2015 03:32	WG777645
Isopropylbenzene	U		0.000240	0.00100	1	03/24/2015 03:32	WG777645
p-Isopropyltoluene	U		0.000200	0.00100	1	03/24/2015 03:32	WG777645
2-Butanone (MEK)	U		0.00470	0.0100	1	03/24/2015 03:32	WG777645
Methylene Chloride	U		0.00100	0.00500	1	03/24/2015 03:32	WG777645
4-Methyl-2-pentanone (MIBK)	U		0.00190	0.0100	1	03/24/2015 03:32	WG777645
Methyl tert-butyl ether	U		0.000210	0.00100	1	03/24/2015 03:32	WG777645
Naphthalene	U		0.00100	0.00500	1	03/24/2015 03:32	WG777645
n-Propylbenzene	U		0.000210	0.00100	1	03/24/2015 03:32	WG777645
Styrene	U		0.000230	0.00100	1	03/24/2015 03:32	WG777645
1,1,1,2-Tetrachloroethane	U		0.000260	0.00100	1	03/24/2015 03:32	WG777645
1,1,2,2-Tetrachloroethane	U		0.000360	0.00100	1	03/24/2015 03:32	WG777645
1,1,2-Trichlorotrifluoroethane	U		0.000360	0.00100	1	03/24/2015 03:32	WG777645
Tetrachloroethene	U		0.000280	0.00100	1	03/24/2015 03:32	WG777645
Toluene	U		0.000430	0.00500	1	03/24/2015 03:32	WG777645
1,2,3-Trichlorobenzene	U		0.000310	0.00100	1	03/24/2015 03:32	WG777645
1,2,4-Trichlorobenzene	U		0.000390	0.00100	1	03/24/2015 03:32	WG777645
1,1,1-Trichloroethane	U		0.000286	0.00100	1	03/24/2015 03:32	WG777645
1,1,2-Trichloroethane	U		0.000280	0.00100	1	03/24/2015 03:32	WG777645
Trichloroethene	U		0.000280	0.00100	1	03/24/2015 03:32	WG777645
Trichlorofluoromethane	U		0.000380	0.00500	1	03/24/2015 03:32	WG777645
1,2,3-Trichloropropane	U		0.000740	0.00250	1	03/24/2015 03:32	WG777645
1,2,4-Trimethylbenzene	U		0.000210	0.00100	1	03/24/2015 03:32	WG777645
1,2,3-Trimethylbenzene	U		0.000290	0.00100	1	03/24/2015 03:32	WG777645
1,3,5-Trimethylbenzene	U		0.000270	0.00100	1	03/24/2015 03:32	WG777645
Vinyl chloride	U		0.000290	0.00100	1	03/24/2015 03:32	WG777645
Xylenes, Total	U		0.000700	0.00300	1	03/24/2015 03:32	WG777645
(S) Toluene-d8	*114*	J1		*88.5-111*		*03/24/2015 03:32*	WG777645
(S) Dibromofluoromethane	*104*			*78.3-121*		*03/24/2015 03:32*	WG777645
(S) 4-Bromofluorobenzene	*127*	J1		*71.0-126*		*03/24/2015 03:32*	WG777645

Sample Narrative:

8260B L753660-09 WG777645: Previous run also had low IS/SURR recovery. Matrix effect.

Semi-Volatile Organic Compounds (GC) by Method TX 1005

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH C6 - C12	U		15.0	50.0	1	03/19/2015 14:12	WG776698
TPH C12 - C28	U		15.0	50.0	1	03/19/2015 14:12	WG776698
TPH C28 - C35	U		15.0	50.0	1	03/19/2015 14:12	WG776698
TPH C6 - C35	U		15.0	50.0	1	03/19/2015 14:12	WG776698
(S) o-Terphenyl	*96.6*			*70.0-130*		*03/19/2015 14:12*	WG776698

Semi-Volatile Organic Compounds (GC) by Method 8151

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
2,4-D	U		0.0230	0.0700	1	03/21/2015 21:45	WG776018
Dalapon	U		0.270	0.800	1	03/21/2015 21:45	WG776018
2,4-DB	U		0.0230	0.0700	1	03/21/2015 21:45	WG776018
Dicamba	U		0.0230	0.0700	1	03/21/2015 21:45	WG776018

Semi-Volatile Organic Compounds (GC) by Method 8151

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Dichloroprop	U		0.0230	0.0700	1	03/21/2015 21:45	WG776018
Dinoseb	U		0.0230	0.0700	1	03/21/2015 21:45	WG776018
MCPA	U		2.20	6.50	1	03/21/2015 21:45	WG776018
MCPP	U		2.20	6.50	1	03/21/2015 21:45	WG776018
2,4,5-T	U		0.0230	0.0700	1	03/21/2015 21:45	WG776018
2,4,5-TP (Silvex)	U		0.0230	0.0700	1	03/21/2015 21:45	WG776018
(S) 2,4-Dichlorophenyl Acetic Acid	*54.5*			*23.5-129*		*03/21/2015 21:45*	WG776018

Pesticides (GC) by Method 8081

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Aldrin	U		0.00140	0.0200	1	03/19/2015 22:00	WG776101
Alpha BHC	U		0.00140	0.0200	1	03/19/2015 22:00	WG776101
Beta BHC	U		0.00160	0.0200	1	03/19/2015 22:00	WG776101
Delta BHC	U		0.00140	0.0200	1	03/19/2015 22:00	WG776101
Gamma BHC	U		0.00140	0.0200	1	03/19/2015 22:00	WG776101
Chlordane	U		0.0390	0.200	1	03/19/2015 22:00	WG776101
4,4-DDD	U		0.00160	0.0200	1	03/19/2015 22:00	WG776101
4,4-DDE	U		0.00150	0.0200	1	03/19/2015 22:00	WG776101
4,4-DDT	U		0.00200	0.0200	1	03/19/2015 22:00	WG776101
Dieldrin	U		0.00150	0.0200	1	03/19/2015 22:00	WG776101
Endosulfan I	U		0.00150	0.0200	1	03/19/2015 22:00	WG776101
Endosulfan II	U		0.00160	0.0200	1	03/19/2015 22:00	WG776101
Endosulfan sulfate	U		0.00150	0.0200	1	03/19/2015 22:00	WG776101
Endrin	U		0.00160	0.0200	1	03/19/2015 22:00	WG776101
Endrin aldehyde	U		0.00130	0.0200	1	03/19/2015 22:00	WG776101
Endrin ketone	U		0.00160	0.0200	1	03/19/2015 22:00	WG776101
Hexachlorobenzene	U		0.00120	0.0200	1	03/19/2015 22:00	WG776101
Heptachlor	U		0.00150	0.0200	1	03/19/2015 22:00	WG776101
Heptachlor epoxide	U		0.00160	0.0200	1	03/19/2015 22:00	WG776101
Methoxychlor	U		0.00180	0.0200	1	03/19/2015 22:00	WG776101
Toxaphene	U		0.0360	0.400	1	03/19/2015 22:00	WG776101
(S) Decachlorobiphenyl	*78.0*			*10.0-143*		*03/19/2015 22:00*	WG776101
(S) Tetrachloro-m-xylene	*106*			*29.2-144*		*03/19/2015 22:00*	WG776101

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.00640	0.0330	1	03/19/2015 22:32	WG776092
Acenaphthylene	U		0.00670	0.0330	1	03/19/2015 22:32	WG776092
Anthracene	U		0.00630	0.0330	1	03/19/2015 22:32	WG776092
Benzidine	U		0.0640	0.333	1	03/19/2015 22:32	WG776092
Benzo(a)anthracene	U		0.00430	0.0330	1	03/19/2015 22:32	WG776092
Benzo(b)fluoranthene	U		0.00700	0.0330	1	03/19/2015 22:32	WG776092
Benzo(k)fluoranthene	U		0.00580	0.0330	1	03/19/2015 22:32	WG776092
Benzo(g,h,i)perylene	U		0.00720	0.0330	1	03/19/2015 22:32	WG776092
Benzo(a)pyrene	U		0.00550	0.0330	1	03/19/2015 22:32	WG776092
Bis(2-chlorethoxy)methane	U		0.00770	0.333	1	03/19/2015 22:32	WG776092
Bis(2-chloroethyl)ether	U		0.00900	0.333	1	03/19/2015 22:32	WG776092
Bis(2-chloroisopropyl)ether	U		0.00760	0.333	1	03/19/2015 22:32	WG776092
4-Bromophenyl-phenylether	U		0.0110	0.333	1	03/19/2015 22:32	WG776092
2-Chloronaphthalene	U		0.00640	0.0330	1	03/19/2015 22:32	WG776092
4-Chlorophenyl-phenylether	U		0.00630	0.333	1	03/19/2015 22:32	WG776092
Chrysene	U		0.00560	0.0330	1	03/19/2015 22:32	WG776092
Dibenz(a,h)anthracene	U		0.00820	0.0330	1	03/19/2015 22:32	WG776092

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
3,3-Dichlorobenzidine	U		0.0790	0.333	1	03/19/2015 22:32	WG776092
2,4-Dinitrotoluene	U		0.00610	0.333	1	03/19/2015 22:32	WG776092
2,6-Dinitrotoluene	U		0.00740	0.333	1	03/19/2015 22:32	WG776092
Fluorene	U		0.00680	0.0330	1	03/19/2015 22:32	WG776092
Hexachlorobenzene	U		0.00860	0.333	1	03/19/2015 22:32	WG776092
Hexachloro-1,3-butadiene	U		0.0100	0.333	1	03/19/2015 22:32	WG776092
Hexachlorocyclopentadiene	U		0.0590	0.333	1	03/19/2015 22:32	WG776092
Hexachloroethane	U		0.0130	0.333	1	03/19/2015 22:32	WG776092
Indeno(1,2,3-cd)pyrene	U		0.00770	0.0330	1	03/19/2015 22:32	WG776092
Isophorone	U		0.00520	0.333	1	03/19/2015 22:32	WG776092
Naphthalene	U		0.00890	0.0330	1	03/19/2015 22:32	WG776092
Nitrobenzene	U		0.00700	0.333	1	03/19/2015 22:32	WG776092
n-Nitrosodimethylamine	U		0.0650	0.333	1	03/19/2015 22:32	WG776092
n-Nitrosodiphenylamine	U		0.00590	0.333	1	03/19/2015 22:32	WG776092
n-Nitrosodi-n-propylamine	U		0.00910	0.333	1	03/19/2015 22:32	WG776092
Phenanthrene	U		0.00530	0.0330	1	03/19/2015 22:32	WG776092
Benzylbutyl phthalate	U		0.0100	0.333	1	03/19/2015 22:32	WG776092
Bis(2-ethylhexyl)phthalate	U		0.0120	0.333	1	03/19/2015 22:32	WG776092
Di-n-butyl phthalate	U		0.0110	0.333	1	03/19/2015 22:32	WG776092
Diethyl phthalate	U		0.00690	0.333	1	03/19/2015 22:32	WG776092
Dimethyl phthalate	U		0.00540	0.333	1	03/19/2015 22:32	WG776092
Di-n-octyl phthalate	U		0.00910	0.333	1	03/19/2015 22:32	WG776092
Pyrene	U		0.0120	0.0330	1	03/19/2015 22:32	WG776092
1,2,4-Trichlorobenzene	U		0.00880	0.333	1	03/19/2015 22:32	WG776092
4-Chloro-3-methylphenol	U		0.00480	0.333	1	03/19/2015 22:32	WG776092
2-Chlorophenol	U		0.00830	0.333	1	03/19/2015 22:32	WG776092
2,4-Dichlorophenol	U		0.00750	0.333	1	03/19/2015 22:32	WG776092
2,4-Dimethylphenol	U		0.0470	0.333	1	03/19/2015 22:32	WG776092
4,6-Dinitro-2-methylphenol	U		0.120	0.333	1	03/19/2015 22:32	WG776092
2,4-Dinitrophenol	U		0.0980	0.333	1	03/19/2015 22:32	WG776092
2-Nitrophenol	U		0.0130	0.333	1	03/19/2015 22:32	WG776092
4-Nitrophenol	U		0.0520	0.333	1	03/19/2015 22:32	WG776092
Pentachlorophenol	U		0.0480	0.333	1	03/19/2015 22:32	WG776092
Phenol	U		0.00700	0.333	1	03/19/2015 22:32	WG776092
2,4,6-Trichlorophenol	U		0.00780	0.333	1	03/19/2015 22:32	WG776092
(S) 2-Fluorophenol	*55.3*			*21.1-116*		*03/19/2015 22:32*	WG776092
(S) Phenol-d5	*58.6*			*26.3-121*		*03/19/2015 22:32*	WG776092
(S) Nitrobenzene-d5	*55.2*			*21.9-129*		*03/19/2015 22:32*	WG776092
(S) 2-Fluorobiphenyl	*61.4*			*34.9-129*		*03/19/2015 22:32*	WG776092
(S) 2,4,6-Tribromophenol	*76.6*			*21.6-142*		*03/19/2015 22:32*	WG776092
(S) p-Terphenyl-d14	*63.1*			*21.5-128*		*03/19/2015 22:32*	WG776092

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	77.7		1	03/19/2015 06:40	WG776248

Mercury by Method 7471A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.00280	0.0200	1	03/17/2015 08:22	WG776002

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	0.934	J	0.650	2.00	1	03/19/2015 11:38	WG776631
Barium	31.1		0.170	0.500	1	03/19/2015 11:38	WG776631
Cadmium	U		0.0700	0.500	1	03/19/2015 11:38	WG776631
Chromium	8.79		0.140	1.00	1	03/19/2015 11:38	WG776631
Lead	6.33		0.190	0.500	1	03/19/2015 11:38	WG776631
Selenium	U		0.740	2.00	1	03/19/2015 11:38	WG776631
Silver	U		0.280	1.00	1	03/19/2015 20:49	WG776631

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0100	1.00	1	03/24/2015 03:49	WG777645
Acrylonitrile	U		0.00180	0.0100	1	03/24/2015 03:49	WG777645
Benzene	U		0.000270	0.00100	1	03/24/2015 03:49	WG777645
Bromobenzene	U		0.000280	0.00100	1	03/24/2015 03:49	WG777645
Bromodichloromethane	U		0.000250	0.00125	1	03/24/2015 03:49	WG777645
Bromoform	U		0.000420	0.00100	1	03/24/2015 03:49	WG777645
Bromomethane	U		0.00130	0.00500	1	03/24/2015 03:49	WG777645
n-Butylbenzene	U		0.000260	0.00100	1	03/24/2015 03:49	WG777645
sec-Butylbenzene	U		0.000200	0.00100	1	03/24/2015 03:49	WG777645
tert-Butylbenzene	U		0.000210	0.00100	1	03/24/2015 03:49	WG777645
Carbon tetrachloride	U		0.000330	0.00100	1	03/24/2015 03:49	WG777645
Chlorobenzene	U		0.000210	0.00100	1	03/24/2015 03:49	WG777645
Chlorodibromomethane	U		0.000370	0.00100	1	03/24/2015 03:49	WG777645
Chloroethane	U		0.000950	0.00500	1	03/24/2015 03:49	WG777645
2-Chloroethyl vinyl ether	U		0.00230	0.0500	1	03/24/2015 03:49	WG777645
Chloroform	U		0.000230	0.00500	1	03/24/2015 03:49	WG777645
Chloromethane	U		0.000380	0.00250	1	03/24/2015 03:49	WG777645
2-Chlorotoluene	U		0.000300	0.00100	1	03/24/2015 03:49	WG777645
4-Chlorotoluene	U		0.000240	0.00100	1	03/24/2015 03:49	WG777645
1,2-Dibromo-3-Chloropropane	U		0.00100	0.00500	1	03/24/2015 03:49	WG777645
1,2-Dibromoethane	U		0.000340	0.00100	1	03/24/2015 03:49	WG777645
Dibromomethane	U		0.000380	0.00100	1	03/24/2015 03:49	WG777645
1,2-Dichlorobenzene	U		0.000300	0.00100	1	03/24/2015 03:49	WG777645
1,3-Dichlorobenzene	U		0.000240	0.00100	1	03/24/2015 03:49	WG777645
1,4-Dichlorobenzene	U		0.000230	0.00100	1	03/24/2015 03:49	WG777645
Dichlorodifluoromethane	U		0.000710	0.00500	1	03/24/2015 03:49	WG777645
1,1-Dichloroethane	U		0.000200	0.00100	1	03/24/2015 03:49	WG777645
1,2-Dichloroethane	U		0.000260	0.00100	1	03/24/2015 03:49	WG777645
1,1-Dichloroethene	U		0.000300	0.00100	1	03/24/2015 03:49	WG777645
cis-1,2-Dichloroethene	U		0.000240	0.00100	1	03/24/2015 03:49	WG777645
trans-1,2-Dichloroethene	U		0.000260	0.00100	1	03/24/2015 03:49	WG777645
1,2-Dichloropropane	U		0.000360	0.00100	1	03/24/2015 03:49	WG777645
1,1-Dichloropropene	U		0.000320	0.00100	1	03/24/2015 03:49	WG777645
1,3-Dichloropropane	U		0.000210	0.00100	1	03/24/2015 03:49	WG777645

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
cis-1,3-Dichloropropene	U		0.000260	0.00100	1	03/24/2015 03:49	WG777645
trans-1,3-Dichloropropene	U		0.000270	0.00100	1	03/24/2015 03:49	WG777645
2,2-Dichloropropane	U		0.000280	0.00100	1	03/24/2015 03:49	WG777645
Di-isopropyl ether	U		0.000250	0.00100	1	03/24/2015 03:49	WG777645
Ethylbenzene	U		0.000300	0.00100	1	03/24/2015 03:49	WG777645
Hexachloro-1,3-butadiene	U		0.000340	0.00100	1	03/24/2015 03:49	WG777645
Isopropylbenzene	U		0.000240	0.00100	1	03/24/2015 03:49	WG777645
p-Isopropyltoluene	U		0.000200	0.00100	1	03/24/2015 03:49	WG777645
2-Butanone (MEK)	U		0.00470	0.0100	1	03/24/2015 03:49	WG777645
Methylene Chloride	U		0.00100	0.00500	1	03/24/2015 03:49	WG777645
4-Methyl-2-pentanone (MIBK)	U		0.00190	0.0100	1	03/24/2015 03:49	WG777645
Methyl tert-butyl ether	U		0.000210	0.00100	1	03/24/2015 03:49	WG777645
Naphthalene	U		0.00100	0.00500	1	03/24/2015 03:49	WG777645
n-Propylbenzene	U		0.000210	0.00100	1	03/24/2015 03:49	WG777645
Styrene	U		0.000230	0.00100	1	03/24/2015 03:49	WG777645
1,1,1,2-Tetrachloroethane	U		0.000260	0.00100	1	03/24/2015 03:49	WG777645
1,1,2,2-Tetrachloroethane	U		0.000360	0.00100	1	03/24/2015 03:49	WG777645
1,1,2-Trichlorotrifluoroethane	U		0.000360	0.00100	1	03/24/2015 03:49	WG777645
Tetrachloroethene	U		0.000280	0.00100	1	03/24/2015 03:49	WG777645
Toluene	U		0.000430	0.00500	1	03/24/2015 03:49	WG777645
1,2,3-Trichlorobenzene	U		0.000310	0.00100	1	03/24/2015 03:49	WG777645
1,2,4-Trichlorobenzene	U		0.000390	0.00100	1	03/24/2015 03:49	WG777645
1,1,1-Trichloroethane	U		0.000286	0.00100	1	03/24/2015 03:49	WG777645
1,1,2-Trichloroethane	U		0.000280	0.00100	1	03/24/2015 03:49	WG777645
Trichloroethene	U		0.000280	0.00100	1	03/24/2015 03:49	WG777645
Trichlorofluoromethane	U		0.000380	0.00500	1	03/24/2015 03:49	WG777645
1,2,3-Trichloropropane	U		0.000740	0.00250	1	03/24/2015 03:49	WG777645
1,2,4-Trimethylbenzene	U		0.000210	0.00100	1	03/24/2015 03:49	WG777645
1,2,3-Trimethylbenzene	U		0.000290	0.00100	1	03/24/2015 03:49	WG777645
1,3,5-Trimethylbenzene	U		0.000270	0.00100	1	03/24/2015 03:49	WG777645
Vinyl chloride	U		0.000290	0.00100	1	03/24/2015 03:49	WG777645
Xylenes, Total	U		0.000700	0.00300	1	03/24/2015 03:49	WG777645
(S) Toluene-d8	*102*			*88.5-111*		*03/24/2015 03:49*	WG777645
(S) Dibromofluoromethane	*100*			*78.3-121*		*03/24/2015 03:49*	WG777645
(S) 4-Bromofluorobenzene	*102*			*71.0-126*		*03/24/2015 03:49*	WG777645

Sample Narrative:

8260B L753660-10 WG777645: Previous run also had low IS/SURR recovery. Matrix effect.

Semi-Volatile Organic Compounds (GC) by Method TX 1005

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH C6 - C12	U		15.0	50.0	1	03/19/2015 14:25	WG776698
TPH C12 - C28	U		15.0	50.0	1	03/19/2015 14:25	WG776698
TPH C28 - C35	U		15.0	50.0	1	03/19/2015 14:25	WG776698
TPH C6 - C35	U		15.0	50.0	1	03/19/2015 14:25	WG776698
(S) o-Terphenyl	*97.4*			*70.0-130*		*03/19/2015 14:25*	WG776698

Semi-Volatile Organic Compounds (GC) by Method 8151

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
2,4-D	U		0.0230	0.0700	1	03/21/2015 22:23	WG776018
Dalapon	U		0.270	0.800	1	03/21/2015 22:23	WG776018
2,4-DB	U		0.0230	0.0700	1	03/21/2015 22:23	WG776018
Dicamba	U		0.0230	0.0700	1	03/21/2015 22:23	WG776018

Semi-Volatile Organic Compounds (GC) by Method 8151

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Dichloroprop	U		0.0230	0.0700	1	03/21/2015 22:23	WG776018
Dinoseb	U		0.0230	0.0700	1	03/21/2015 22:23	WG776018
MCPA	U		2.20	6.50	1	03/21/2015 22:23	WG776018
MCPP	U		2.20	6.50	1	03/21/2015 22:23	WG776018
2,4,5-T	U		0.0230	0.0700	1	03/21/2015 22:23	WG776018
2,4,5-TP (Silvex)	U		0.0230	0.0700	1	03/21/2015 22:23	WG776018
(S) 2,4-Dichlorophenyl Acetic Acid	*57.5*			*23.5-129*		*03/21/2015 22:23*	WG776018

Pesticides (GC) by Method 8081

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Aldrin	U		0.00140	0.0200	1	03/20/2015 00:33	WG776101
Alpha BHC	U		0.00140	0.0200	1	03/20/2015 00:33	WG776101
Beta BHC	U		0.00160	0.0200	1	03/20/2015 00:33	WG776101
Delta BHC	U		0.00140	0.0200	1	03/20/2015 00:33	WG776101
Gamma BHC	U		0.00140	0.0200	1	03/20/2015 00:33	WG776101
Chlordane	U		0.0390	0.200	1	03/20/2015 00:33	WG776101
4,4-DDD	U		0.00160	0.0200	1	03/20/2015 00:33	WG776101
4,4-DDE	U		0.00150	0.0200	1	03/20/2015 00:33	WG776101
4,4-DDT	U		0.00200	0.0200	1	03/20/2015 00:33	WG776101
Dieldrin	U		0.00150	0.0200	1	03/20/2015 00:33	WG776101
Endosulfan I	U		0.00150	0.0200	1	03/20/2015 00:33	WG776101
Endosulfan II	U		0.00160	0.0200	1	03/20/2015 00:33	WG776101
Endosulfan sulfate	U		0.00150	0.0200	1	03/20/2015 00:33	WG776101
Endrin	U		0.00160	0.0200	1	03/20/2015 00:33	WG776101
Endrin aldehyde	U		0.00130	0.0200	1	03/20/2015 00:33	WG776101
Endrin ketone	U		0.00160	0.0200	1	03/20/2015 00:33	WG776101
Hexachlorobenzene	U		0.00120	0.0200	1	03/20/2015 00:33	WG776101
Heptachlor	U		0.00150	0.0200	1	03/20/2015 00:33	WG776101
Heptachlor epoxide	U		0.00160	0.0200	1	03/20/2015 00:33	WG776101
Methoxychlor	U		0.00180	0.0200	1	03/20/2015 00:33	WG776101
Toxaphene	U		0.0360	0.400	1	03/20/2015 00:33	WG776101
(S) Decachlorobiphenyl	*81.2*			*10.0-143*		*03/20/2015 00:33*	WG776101
(S) Tetrachloro-m-xylene	*108*			*29.2-144*		*03/20/2015 00:33*	WG776101

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acenaphthene	U		0.00640	0.0330	1	03/19/2015 22:10	WG776092
Acenaphthylene	U		0.00670	0.0330	1	03/19/2015 22:10	WG776092
Anthracene	U		0.00630	0.0330	1	03/19/2015 22:10	WG776092
Benzidine	U		0.0640	0.333	1	03/19/2015 22:10	WG776092
Benzo(a)anthracene	U		0.00430	0.0330	1	03/19/2015 22:10	WG776092
Benzo(b)fluoranthene	U		0.00700	0.0330	1	03/19/2015 22:10	WG776092
Benzo(k)fluoranthene	U		0.00580	0.0330	1	03/19/2015 22:10	WG776092
Benzo(g,h,i)perylene	U		0.00720	0.0330	1	03/19/2015 22:10	WG776092
Benzo(a)pyrene	U		0.00550	0.0330	1	03/19/2015 22:10	WG776092
Bis(2-chlorethoxy)methane	U		0.00770	0.333	1	03/19/2015 22:10	WG776092
Bis(2-chloroethyl)ether	U		0.00900	0.333	1	03/19/2015 22:10	WG776092
Bis(2-chloroisopropyl)ether	U		0.00760	0.333	1	03/19/2015 22:10	WG776092
4-Bromophenyl-phenylether	U		0.0110	0.333	1	03/19/2015 22:10	WG776092
2-Chloronaphthalene	U		0.00640	0.0330	1	03/19/2015 22:10	WG776092
4-Chlorophenyl-phenylether	U		0.00630	0.333	1	03/19/2015 22:10	WG776092
Chrysene	U		0.00560	0.0330	1	03/19/2015 22:10	WG776092
Dibenz(a,h)anthracene	U		0.00820	0.0330	1	03/19/2015 22:10	WG776092

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
3,3-Dichlorobenzidine	U		0.0790	0.333	1	03/19/2015 22:10	WG776092
2,4-Dinitrotoluene	U		0.00610	0.333	1	03/19/2015 22:10	WG776092
2,6-Dinitrotoluene	U		0.00740	0.333	1	03/19/2015 22:10	WG776092
Fluoranthene	U		0.00500	0.0330	1	03/19/2015 22:10	WG776092
Fluorene	U		0.00680	0.0330	1	03/19/2015 22:10	WG776092
Hexachlorobenzene	U		0.00860	0.333	1	03/19/2015 22:10	WG776092
Hexachloro-1,3-butadiene	U		0.0100	0.333	1	03/19/2015 22:10	WG776092
Hexachlorocyclopentadiene	U		0.0590	0.333	1	03/19/2015 22:10	WG776092
Hexachloroethane	U		0.0130	0.333	1	03/19/2015 22:10	WG776092
Indeno(1,2,3-cd)pyrene	U		0.00770	0.0330	1	03/19/2015 22:10	WG776092
Isophorone	U		0.00520	0.333	1	03/19/2015 22:10	WG776092
Naphthalene	U		0.00890	0.0330	1	03/19/2015 22:10	WG776092
Nitrobenzene	U		0.00700	0.333	1	03/19/2015 22:10	WG776092
n-Nitrosodimethylamine	U		0.0650	0.333	1	03/19/2015 22:10	WG776092
n-Nitrosodiphenylamine	U		0.00590	0.333	1	03/19/2015 22:10	WG776092
n-Nitrosodi-n-propylamine	U		0.00910	0.333	1	03/19/2015 22:10	WG776092
Phenanthrene	U		0.00530	0.0330	1	03/19/2015 22:10	WG776092
Benzylbutyl phthalate	U		0.0100	0.333	1	03/19/2015 22:10	WG776092
Bis(2-ethylhexyl)phthalate	U		0.0120	0.333	1	03/19/2015 22:10	WG776092
Di-n-butyl phthalate	U		0.0110	0.333	1	03/19/2015 22:10	WG776092
Diethyl phthalate	U		0.00690	0.333	1	03/19/2015 22:10	WG776092
Dimethyl phthalate	U		0.00540	0.333	1	03/19/2015 22:10	WG776092
Di-n-octyl phthalate	U		0.00910	0.333	1	03/19/2015 22:10	WG776092
Pyrene	U		0.0120	0.0330	1	03/19/2015 22:10	WG776092
1,2,4-Trichlorobenzene	U		0.00880	0.333	1	03/19/2015 22:10	WG776092
4-Chloro-3-methylphenol	U		0.00480	0.333	1	03/19/2015 22:10	WG776092
2-Chlorophenol	U		0.00830	0.333	1	03/19/2015 22:10	WG776092
2,4-Dichlorophenol	U		0.00750	0.333	1	03/19/2015 22:10	WG776092
2,4-Dimethylphenol	U		0.0470	0.333	1	03/19/2015 22:10	WG776092
4,6-Dinitro-2-methylphenol	U		0.120	0.333	1	03/19/2015 22:10	WG776092
2,4-Dinitrophenol	U		0.0980	0.333	1	03/19/2015 22:10	WG776092
2-Nitrophenol	U		0.0130	0.333	1	03/19/2015 22:10	WG776092
4-Nitrophenol	U		0.0520	0.333	1	03/19/2015 22:10	WG776092
Pentachlorophenol	U		0.0480	0.333	1	03/19/2015 22:10	WG776092
Phenol	U		0.00700	0.333	1	03/19/2015 22:10	WG776092
2,4,6-Trichlorophenol	U		0.00780	0.333	1	03/19/2015 22:10	WG776092
(S) 2-Fluorophenol	*53.4*			*21.1-116*		*03/19/2015 22:10*	WG776092
(S) Phenol-d5	*55.2*			*26.3-121*		*03/19/2015 22:10*	WG776092
(S) Nitrobenzene-d5	*51.3*			*21.9-129*		*03/19/2015 22:10*	WG776092
(S) 2-Fluorobiphenyl	*60.4*			*34.9-129*		*03/19/2015 22:10*	WG776092
(S) 2,4,6-Tribromophenol	*73.4*			*21.6-142*		*03/19/2015 22:10*	WG776092
(S) p-Terphenyl-d14	*61.7*			*21.5-128*		*03/19/2015 22:10*	WG776092

Method Blank (MB)

(MB) 03/19/15 06:53

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000400			

L753655-04 Original Sample (OS) • Duplicate (DUP)

(OS) 03/19/15 06:54 • (DUP) 03/19/15 06:54

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	79.4	79.5	1	0.0533		5

Laboratory Control Sample (LCS)

(LCS) 03/19/15 06:54

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) 03/19/15 06:38

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000500			

L753660-05 Original Sample (OS) • Duplicate (DUP)

(OS) 03/19/15 06:38 • (DUP) 03/19/15 06:38

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	87.2	87.4	1	0.198		5

Laboratory Control Sample (LCS)

(LCS) 03/19/15 06:38

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) 03/17/15 07:15

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Mercury	U		0.0028	0.0200

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

(LCS) 03/17/15 07:18 • (LCSD) 03/17/15 07:21

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Mercury	0.458	0.467	0.471	102	103	80-120			1	20

L753651-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 03/17/15 07:23 • (MS) 03/17/15 07:26 • (MSD) 03/17/15 07:28

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury	0.458	0.0626	0.541	0.523	104	100	1	75-125			3	20

Method Blank (MB)

(MB) 03/19/15 10:04

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	U		0.65	2.00
Barium	U		0.17	0.500
Cadmium	U		0.07	0.500
Chromium	U		0.14	1.00
Lead	U		0.19	0.500
Selenium	U		0.74	2.00
Silver	U		0.28	1.00

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

(LCS) 03/19/15 10:08 • (LCSD) 03/19/15 10:13

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Arsenic	100	102	105	102	105	80-120			4	20
Barium	100	104	108	104	108	80-120			4	20
Cadmium	100	102	106	102	106	80-120			4	20
Chromium	100	104	109	104	109	80-120			4	20
Lead	100	105	109	105	109	80-120			4	20
Selenium	100	102	106	102	106	80-120			3	20
Silver	100	103	107	103	107	80-120			4	20

L753660-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 03/19/15 10:17 • (MS) 03/19/15 10:40 • (MSD) 03/19/15 10:44

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	100	1.50	99.6	91.0	98	89	1	75-125			9	20
Barium	100	23.3	118	121	95	98	1	75-125			2	20
Cadmium	100	ND	99.6	91.0	100	91	1	75-125			9	20
Chromium	100	8.99	111	99.3	102	90	1	75-125			11	20
Lead	100	5.89	112	102	106	96	1	75-125			9	20
Selenium	100	1.32	99.8	90.6	98	89	1	75-125			10	20
Silver	100	ND	105	94.6	105	95	1	75-125			10	20

Method Blank (MB)

(MB) 03/21/15 12:33

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0100	0.0500
Acrylonitrile	U		0.00179	0.0100
Benzene	U		0.000270	0.00100
Bromobenzene	U		0.000284	0.00100
Bromodichloromethane	U		0.000254	0.00100
Bromoform	U		0.000424	0.00100
Bromomethane	U		0.00134	0.00500
n-Butylbenzene	U		0.000258	0.00100
sec-Butylbenzene	U		0.000201	0.00100
tert-Butylbenzene	U		0.000206	0.00100
Carbon tetrachloride	U		0.000328	0.00100
Chlorobenzene	U		0.000212	0.00100
Chlorodibromomethane	U		0.000373	0.00100
Chloroethane	U		0.000946	0.00500
2-Chloroethyl vinyl ether	U		0.00234	0.0500
Chloroform	U		0.000229	0.00500
Chloromethane	U		0.000375	0.00250
2-Chlorotoluene	U		0.000301	0.00100
4-Chlorotoluene	U		0.000240	0.00100
1,2-Dibromo-3-Chloropropane	U		0.00105	0.00500
1,2-Dibromoethane	U		0.000343	0.00100
Dibromomethane	U		0.000382	0.00100
1,2-Dichlorobenzene	U		0.000305	0.00100
1,3-Dichlorobenzene	U		0.000239	0.00100
1,4-Dichlorobenzene	U		0.000226	0.00100
Dichlorodifluoromethane	U		0.000713	0.00500
1,1-Dichloroethane	U		0.000199	0.00100
1,2-Dichloroethane	U		0.000265	0.00100
1,1-Dichloroethene	U		0.000303	0.00100
cis-1,2-Dichloroethene	U		0.000235	0.00100
trans-1,2-Dichloroethene	U		0.000264	0.00100
1,2-Dichloropropane	U		0.000358	0.00100
1,1-Dichloropropene	U		0.000317	0.00100
1,3-Dichloropropane	U		0.000207	0.00100
cis-1,3-Dichloropropene	U		0.000262	0.00100
trans-1,3-Dichloropropene	U		0.000267	0.00100
2,2-Dichloropropane	U		0.000279	0.00100
Di-isopropyl ether	U		0.000248	0.00100
Ethylbenzene	U		0.000297	0.00100

Method Blank (MB)

(MB) 03/21/15 12:33

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Hexachloro-1,3-butadiene	U		0.000342	0.00100
Isopropylbenzene	U		0.000243	0.00100
p-Isopropyltoluene	U		0.000204	0.00100
2-Butanone (MEK)	U		0.00468	0.0100
Methylene Chloride	U		0.00100	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.00188	0.0100
Methyl tert-butyl ether	U		0.000212	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.000206	0.00100
Styrene	U		0.000234	0.00100
1,1,1,2-Tetrachloroethane	U		0.000264	0.00100
1,1,2,2-Tetrachloroethane	U		0.000365	0.00100
Tetrachloroethene	U		0.000276	0.00100
Toluene	U		0.000434	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000365	0.00100
1,2,3-Trichlorobenzene	U		0.000306	0.00100
1,2,4-Trichlorobenzene	U		0.000388	0.00100
1,1,1-Trichloroethane	U		0.000286	0.00100
1,1,2-Trichloroethane	U		0.000277	0.00100
Trichloroethene	U		0.000279	0.00100
Trichlorofluoromethane	U		0.000382	0.00500
1,2,3-Trichloropropane	U		0.000741	0.00250
1,2,3-Trimethylbenzene	U		0.000287	0.00100
1,2,4-Trimethylbenzene	U		0.000211	0.00100
1,3,5-Trimethylbenzene	U		0.000266	0.00100
Vinyl chloride	U		0.000291	0.00100
Xylenes, Total	U		0.000698	0.00300
(S) Toluene-d8	*109*			*88.5-111*
(S) Dibromofluoromethane	*106*			*78.3-121*
(S) 4-Bromofluorobenzene	*102*			*71.0-126*

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

(LCS) 03/21/15 10:04 • (LCSD) 03/21/15 10:25

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.125	0.120	0.118	95.9	94.3	35.1-175			1.62	26.1
Acrylonitrile	0.125	0.125	0.127	100	101	56.4-128			1.04	20

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

(LCS) 03/21/15 10:04 • (LCSD) 03/21/15 10:25

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.0250	0.0260	0.0257	104	103	77.1-121			1.25	20
Bromobenzene	0.0250	0.0252	0.0249	101	99.5	78.2-115			1.35	20
Bromodichloromethane	0.0250	0.0276	0.0268	110	107	74.9-115			2.63	20
Bromoform	0.0250	0.0233	0.0233	93.3	93.0	65.9-132			0.270	20
Bromomethane	0.0250	0.0268	0.0270	107	108	48.7-165			0.660	20
n-Butylbenzene	0.0250	0.0276	0.0263	111	105	77.5-126			4.82	20
sec-Butylbenzene	0.0250	0.0268	0.0261	107	104	75.8-126			2.45	20
tert-Butylbenzene	0.0250	0.0266	0.0261	106	104	76.4-126			1.78	20
Carbon tetrachloride	0.0250	0.0271	0.0265	109	106	70.0-124			2.28	20
Chlorobenzene	0.0250	0.0265	0.0258	106	103	79.1-119			2.69	20
Chlorodibromomethane	0.0250	0.0274	0.0266	109	106	73.5-121			2.85	20
Chloroethane	0.0250	0.0280	0.0274	112	110	66.2-132			2.22	20
2-Chloroethyl vinyl ether	0.125	0.149	0.143	120	115	37.7-157			4.26	20
Chloroform	0.0250	0.0252	0.0249	101	99.5	76.7-122			1.43	20
Chloromethane	0.0250	0.0246	0.0242	98.6	96.6	63.4-131			2.01	20
2-Chlorotoluene	0.0250	0.0252	0.0250	101	99.9	75.6-121			0.990	20
4-Chlorotoluene	0.0250	0.0259	0.0251	104	100	77.3-120			3.35	20
1,2-Dibromo-3-Chloropropane	0.0250	0.0229	0.0225	91.7	90.1	62.8-133			1.83	20
1,2-Dibromoethane	0.0250	0.0264	0.0261	105	104	78.6-120			1.07	20
Dibromomethane	0.0250	0.0264	0.0256	106	102	79.4-120			3.16	20
1,2-Dichlorobenzene	0.0250	0.0262	0.0256	105	103	78.3-118			2.29	20
1,3-Dichlorobenzene	0.0250	0.0257	0.0249	103	99.5	72.0-126			3.41	20
1,4-Dichlorobenzene	0.0250	0.0258	0.0253	103	101	78.3-117			1.99	20
Dichlorodifluoromethane	0.0250	0.0258	0.0249	103	99.5	57.1-137			3.55	20
1,1-Dichloroethane	0.0250	0.0264	0.0260	105	104	75.0-124			1.55	20
1,2-Dichloroethane	0.0250	0.0260	0.0254	104	102	70.1-124			2.16	20
1,1-Dichloroethene	0.0250	0.0271	0.0264	109	106	70.4-129			2.78	20
cis-1,2-Dichloroethene	0.0250	0.0260	0.0261	104	104	78.2-119			0.410	20
trans-1,2-Dichloroethene	0.0250	0.0270	0.0265	108	106	73.8-122			1.76	20
1,2-Dichloropropane	0.0250	0.0265	0.0256	106	102	77.9-119			3.41	20
1,1-Dichloropropene	0.0250	0.0265	0.0260	106	104	74.9-124			2.12	20
1,3-Dichloropropane	0.0250	0.0248	0.0246	99.2	98.3	79.1-117			0.910	20
cis-1,3-Dichloropropene	0.0250	0.0285	0.0277	114	111	79.6-120			2.54	20
trans-1,3-Dichloropropene	0.0250	0.0278	0.0265	111	106	75.9-124			4.53	20
2,2-Dichloropropane	0.0250	0.0274	0.0273	110	109	61.3-136			0.370	20
Di-isopropyl ether	0.0250	0.0260	0.0254	104	101	70.4-133			2.42	20
Ethylbenzene	0.0250	0.0269	0.0264	108	106	79.7-122			1.64	20
Hexachloro-1,3-butadiene	0.0250	0.0275	0.0265	110	106	68.2-123			3.74	20
Isopropylbenzene	0.0250	0.0267	0.0261	107	104	80.0-135			2.22	20

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

(LCS) 03/21/15 10:04 • (LCSD) 03/21/15 10:25

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
p-Isopropyltoluene	0.0250	0.0271	0.0265	108	106	75.8-129			2.29	20
2-Butanone (MEK)	0.125	0.135	0.135	108	108	53.7-153			0.0900	21.2
Methylene Chloride	0.0250	0.0254	0.0249	102	99.6	72.6-120			1.93	20
4-Methyl-2-pentanone (MIBK)	0.125	0.139	0.137	112	110	70.4-137			1.63	20
Methyl tert-butyl ether	0.0250	0.0252	0.0252	101	101	73.0-129			0.120	20
Naphthalene	0.0250	0.0248	0.0249	99.4	99.6	69.8-128			0.280	20
n-Propylbenzene	0.0250	0.0262	0.0257	105	103	77.9-123			2.03	20
Styrene	0.0250	0.0267	0.0265	107	106	82.4-126			1.04	20
1,1,1,2-Tetrachloroethane	0.0250	0.0276	0.0269	111	108	72.9-124			2.54	20
1,1,2,2-Tetrachloroethane	0.0250	0.0253	0.0251	101	100	69.4-122			0.840	20
Tetrachloroethene	0.0250	0.0267	0.0260	107	104	73.9-125			2.65	20
Toluene	0.0250	0.0265	0.0257	106	103	79.7-118			3.13	20
1,1,2-Trichlorotrifluoroethane	0.0250	0.0279	0.0271	112	108	70.0-146			2.98	20
1,2,3-Trichlorobenzene	0.0250	0.0262	0.0254	105	102	69.3-131			2.97	20
1,2,4-Trichlorobenzene	0.0250	0.0268	0.0259	107	104	71.9-137			3.36	20
1,1,1-Trichloroethane	0.0250	0.0267	0.0264	107	106	73.7-124			1.10	20
1,1,2-Trichloroethane	0.0250	0.0260	0.0252	104	101	79.1-118			3.27	20
Trichloroethene	0.0250	0.0266	0.0262	107	105	77.9-118			1.75	20
Trichlorofluoromethane	0.0250	0.0274	0.0270	110	108	67.7-131			1.56	20
1,2,3-Trichloropropane	0.0250	0.0236	0.0234	94.3	93.7	71.4-123			0.620	20
1,2,3-Trimethylbenzene	0.0250	0.0271	0.0263	109	105	73.6-113			3.12	20
1,2,4-Trimethylbenzene	0.0250	0.0262	0.0258	105	103	75.5-122			1.62	20
1,3,5-Trimethylbenzene	0.0250	0.0267	0.0261	107	104	75.9-124			2.27	20
Vinyl chloride	0.0250	0.0260	0.0253	104	101	66.7-130			2.62	20
Xylenes, Total	0.0750	0.0806	0.0781	108	104	78.8-121			3.22	20
(S) Toluene-d8				*110*	*108*	*88.5-111*				
(S) Dibromofluoromethane				*105*	*105*	*78.3-121*				
(S) 4-Bromofluorobenzene				*99.7*	*100*	*71.0-126*				

L753632-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 03/21/15 13:25 • (MS) 03/21/15 11:32 • (MSD) 03/21/15 11:53

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acetone	0.125	0.0620	0.575	0.621	82.0	89.4	5	10.0-130			7.71	27.9
Acrylonitrile	0.125	ND	0.570	0.612	91.2	98.0	5	49.4-133			7.11	25.3
Benzene	0.0250	ND	0.122	0.115	97.4	92.4	5	54.3-133			5.27	20
Bromobenzene	0.0250	ND	0.112	0.108	89.2	86.1	5	63.9-124			3.52	20

L753632-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 03/21/15 13:25 • (MS) 03/21/15 11:32 • (MSD) 03/21/15 11:53

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Bromodichloromethane	0.0250	ND	0.124	0.118	98.8	94.7	5	63.9-121			4.24	20
Bromoform	0.0250	ND	0.103	0.105	82.0	83.7	5	59.5-134			2.05	20.8
Bromomethane	0.0250	ND	0.128	0.116	102	93.1	5	41.7-155			9.16	20.5
n-Butylbenzene	0.0250	ND	0.121	0.116	96.6	93.1	5	62.7-140			3.65	20
sec-Butylbenzene	0.0250	ND	0.118	0.115	94.1	91.9	5	62.2-136			2.43	20.3
tert-Butylbenzene	0.0250	ND	0.118	0.115	94.8	91.6	5	63.3-134			3.34	20.3
Carbon tetrachloride	0.0250	ND	0.130	0.122	104	97.8	5	55.7-134			6.44	20.3
Chlorobenzene	0.0250	ND	0.118	0.112	94.3	89.8	5	67.0-125			4.91	20
Chlorodibromomethane	0.0250	ND	0.119	0.117	95.5	93.6	5	64.3-125			2.10	20
Chloroethane	0.0250	ND	0.133	0.121	106	97.1	5	51.5-136			8.77	20.8
2-Chloroethyl vinyl ether	0.125	ND	0.665	0.669	106	107	5	10.0-155			0.650	40
Chloroform	0.0250	ND	0.116	0.111	93.0	89.2	5	63.0-129			4.24	20
Chloromethane	0.0250	ND	0.117	0.111	93.3	89.1	5	42.4-135			4.53	20
2-Chlorotoluene	0.0250	ND	0.113	0.109	90.8	87.0	5	63.6-128			4.17	20
4-Chlorotoluene	0.0250	ND	0.114	0.108	91.4	86.7	5	65.7-127			5.33	20
1,2-Dibromo-3-Chloropropane	0.0250	ND	0.103	0.107	82.1	85.8	5	57.3-136			4.40	27
1,2-Dibromoethane	0.0250	ND	0.116	0.116	92.5	93.0	5	67.1-125			0.560	20
Dibromomethane	0.0250	ND	0.117	0.115	93.7	92.0	5	68.2-124			1.73	20
1,2-Dichlorobenzene	0.0250	ND	0.116	0.110	92.4	88.1	5	68.2-123			4.75	20
1,3-Dichlorobenzene	0.0250	ND	0.112	0.108	89.6	86.3	5	63.1-131			3.74	20
1,4-Dichlorobenzene	0.0250	ND	0.115	0.109	91.7	86.9	5	68.6-123			5.37	20
Dichlorodifluoromethane	0.0250	ND	0.120	0.115	96.3	91.9	5	40.6-144			4.72	20.2
1,1-Dichloroethane	0.0250	ND	0.123	0.116	98.6	93.1	5	58.5-132			5.80	20
1,2-Dichloroethane	0.0250	ND	0.115	0.113	92.2	90.2	5	60.0-126			2.23	20
1,1-Dichloroethene	0.0250	ND	0.129	0.123	103	98.4	5	51.1-140			4.75	20.2
cis-1,2-Dichloroethene	0.0250	ND	0.121	0.118	96.8	94.7	5	59.2-129			2.12	20
trans-1,2-Dichloroethene	0.0250	ND	0.128	0.121	102	96.5	5	56.5-129			5.82	20
1,2-Dichloropropane	0.0250	ND	0.119	0.114	95.2	91.2	5	64.2-123			4.25	20
1,1-Dichloropropene	0.0250	ND	0.126	0.120	101	95.7	5	57.3-136			5.22	20
1,3-Dichloropropane	0.0250	ND	0.110	0.108	87.6	86.0	5	67.9-121			1.87	20
cis-1,3-Dichloropropene	0.0250	ND	0.127	0.121	102	97.2	5	66.4-125			4.70	20
trans-1,3-Dichloropropene	0.0250	ND	0.123	0.119	98.7	95.1	5	64.1-128			3.69	20
2,2-Dichloropropane	0.0250	ND	0.136	0.127	109	102	5	50.5-144			6.74	21.9
Di-isopropyl ether	0.0250	ND	0.118	0.112	94.3	89.8	5	56.9-136			4.92	20
Ethylbenzene	0.0250	ND	0.122	0.116	98.0	93.2	5	61.4-133			5.01	20
Hexachloro-1,3-butadiene	0.0250	ND	0.115	0.114	91.6	91.3	5	55.1-136			0.400	23.6
Isopropylbenzene	0.0250	ND	0.119	0.116	95.5	92.4	5	66.8-141			3.32	20
p-Isopropyltoluene	0.0250	ND	0.119	0.116	95.0	92.8	5	63.2-139			2.38	20.4
2-Butanone (MEK)	0.125	ND	0.619	0.677	99.0	108	5	22.4-138			9.04	27

L753632-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 03/21/15 13:25 • (MS) 03/21/15 11:32 • (MSD) 03/21/15 11:53

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Methylene Chloride	0.0250	0.00226	0.115	0.110	90.6	86.5	5	58.1-122			4.47	20
4-Methyl-2-pentanone (MIBK)	0.125	ND	0.632	0.682	101	109	5	60.8-140			7.51	25.1
Methyl tert-butyl ether	0.0250	ND	0.115	0.114	91.9	91.3	5	57.7-134			0.710	20
Naphthalene	0.0250	0.000671	0.110	0.114	87.3	90.7	5	58.0-135			3.88	25.5
n-Propylbenzene	0.0250	ND	0.118	0.113	94.1	90.6	5	10.0-176			3.83	26.6
Styrene	0.0250	ND	0.119	0.115	94.8	91.9	5	66.8-133			3.12	20
1,1,1,2-Tetrachloroethane	0.0250	ND	0.124	0.117	98.9	93.6	5	64.0-128			5.59	20
1,1,2,2-Tetrachloroethane	0.0250	ND	0.104	0.102	83.1	81.5	5	56.0-132			2.05	22.2
Tetrachloroethene	0.0250	ND	0.122	0.117	97.6	93.2	5	53.0-139			4.58	20
Toluene	0.0250	ND	0.121	0.115	97.1	92.2	5	61.4-130			5.18	20
1,1,2-Trichlorotrifluoroethane	0.0250	ND	0.130	0.126	104	100	5	54.8-154			3.61	22.5
1,2,3-Trichlorobenzene	0.0250	ND	0.111	0.110	88.9	88.3	5	59.1-138			0.690	23.7
1,2,4-Trichlorobenzene	0.0250	ND	0.116	0.112	92.5	89.6	5	63.6-143			3.14	21.9
1,1,1-Trichloroethane	0.0250	ND	0.129	0.120	103	96.2	5	58.7-134			7.06	20
1,1,2-Trichloroethane	0.0250	ND	0.113	0.112	90.3	89.4	5	66.3-125			0.990	20
Trichloroethene	0.0250	ND	0.133	0.131	106	105	5	44.1-149			0.920	20
Trichlorofluoromethane	0.0250	ND	0.133	0.123	106	98.4	5	49.6-145			7.66	21.2
1,2,3-Trichloropropane	0.0250	ND	0.103	0.109	82.4	87.3	5	61.4-128			5.83	22.4
1,2,3-Trimethylbenzene	0.0250	ND	0.120	0.115	96.0	91.8	5	61.3-122			4.51	20
1,2,4-Trimethylbenzene	0.0250	ND	0.116	0.112	92.4	89.3	5	57.4-137			3.39	20
1,3,5-Trimethylbenzene	0.0250	ND	0.118	0.114	94.1	90.9	5	63.6-132			3.42	20.5
Vinyl chloride	0.0250	ND	0.124	0.118	99.6	94.1	5	47.8-137			5.65	20
Xylenes, Total	0.0750	0.000344	0.360	0.346	95.9	92.2	5	63.3-131			3.98	20
(S) Toluene-d8					*108*	*108*		*88.5-111*				
(S) Dibromofluoromethane					*104*	*105*		*78.3-121*				
(S) 4-Bromofluorobenzene					*98.5*	*101*		*71.0-126*				

Method Blank (MB)

(MB) 03/21/15 15:59

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0100	0.0500
Acrolein	U		0.00887	0.0250
Acrylonitrile	U		0.00187	0.0100
Benzene	U		0.000331	0.00100
Bromobenzene	U		0.000352	0.00100
Bromodichloromethane	U		0.000380	0.00100
Bromoform	U		0.000469	0.00100
Bromomethane	U		0.000866	0.00500
n-Butylbenzene	U		0.000361	0.00100
sec-Butylbenzene	U		0.000365	0.00100
tert-Butylbenzene	U		0.000399	0.00100
Carbon tetrachloride	U		0.000379	0.00100
Chlorobenzene	U		0.000348	0.00100
Chlorodibromomethane	U		0.000327	0.00100
Chloroethane	U		0.000453	0.00500
2-Chloroethyl vinyl ether	U		0.00301	0.0500
Chloroform	U		0.000324	0.00500
Chloromethane	U		0.000276	0.00250
2-Chlorotoluene	U		0.000375	0.00100
4-Chlorotoluene	U		0.000351	0.00100
1,2-Dibromo-3-Chloropropane	U		0.00133	0.00500
1,2-Dibromoethane	U		0.000381	0.00100
Dibromomethane	U		0.000346	0.00100
1,2-Dichlorobenzene	U		0.000349	0.00100
1,3-Dichlorobenzene	U		0.000220	0.00100
1,4-Dichlorobenzene	U		0.000274	0.00100
Dichlorodifluoromethane	U		0.000551	0.00500
1,1-Dichloroethane	U		0.000259	0.00100
1,2-Dichloroethane	U		0.000361	0.00100
1,1-Dichloroethene	U		0.000398	0.00100
cis-1,2-Dichloroethene	U		0.000260	0.00100
trans-1,2-Dichloroethene	U		0.000396	0.00100
1,2-Dichloropropane	U		0.000306	0.00100
1,1-Dichloropropene	U		0.000352	0.00100
1,3-Dichloropropane	U		0.000366	0.00100
cis-1,3-Dichloropropene	U		0.000418	0.00100
trans-1,3-Dichloropropene	U		0.000419	0.00100
2,2-Dichloropropane	U		0.000321	0.00100
Di-isopropyl ether	U		0.000320	0.00100

Method Blank (MB)

(MB) 03/21/15 15:59

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Ethylbenzene	U		0.000384	0.00100
Hexachloro-1,3-butadiene	U		0.000256	0.00100
Isopropylbenzene	U		0.000326	0.00100
p-Isopropyltoluene	U		0.000350	0.00100
2-Butanone (MEK)	U		0.00393	0.0100
Methylene Chloride	U		0.00100	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100
Methyl tert-butyl ether	U		0.000367	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.000349	0.00100
Styrene	U		0.000307	0.00100
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100
Tetrachloroethene	U		0.000372	0.00100
Toluene	U		0.000780	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000303	0.00100
1,2,3-Trichlorobenzene	U		0.000230	0.00100
1,2,4-Trichlorobenzene	U		0.000355	0.00100
1,1,1-Trichloroethane	U		0.000319	0.00100
1,1,2-Trichloroethane	U		0.000383	0.00100
Trichloroethene	U		0.000398	0.00100
Trichlorofluoromethane	U		0.00120	0.00500
1,2,3-Trichloropropane	U		0.000807	0.00100
1,2,3-Trimethylbenzene	U		0.000321	0.00100
1,2,4-Trimethylbenzene	U		0.000373	0.00100
1,3,5-Trimethylbenzene	U		0.000387	0.00100
Vinyl chloride	U		0.000259	0.00100
Xylenes, Total	U		0.00106	0.00300
(S) Toluene-d8	*106*			*88.5-111*
(S) Dibromofluoromethane	*99.3*			*78.3-121*
(S) 4-Bromofluorobenzene	*105*			*71.0-126*

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

(LCS) 03/21/15 13:46 • (LCSD) 03/21/15 14:07

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.125	0.0997	0.104	79.7	83.2	35.6-163			4.31	23.9

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

(LCS) 03/21/15 13:46 • (LCSD) 03/21/15 14:07

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acrolein	0.125	0.156	0.140	125	112	10.0-190			10.8	28.1
Acrylonitrile	0.125	0.128	0.120	102	95.6	55.2-130			6.75	20
Benzene	0.0250	0.0242	0.0241	96.9	96.5	74.8-121			0.430	20
Bromobenzene	0.0250	0.0253	0.0255	101	102	77.5-116			0.760	20
Bromodichloromethane	0.0250	0.0247	0.0252	98.7	101	75.1-116			2.11	20
Bromoform	0.0250	0.0291	0.0292	116	117	67.5-130			0.370	20
Bromomethane	0.0250	0.0305	0.0294	122	118	49.9-162			3.55	20
n-Butylbenzene	0.0250	0.0243	0.0245	97.2	98.1	76.2-126			0.970	20
sec-Butylbenzene	0.0250	0.0278	0.0268	111	107	74.4-127			3.62	20
tert-Butylbenzene	0.0250	0.0281	0.0274	112	110	75.3-126			2.37	20
Carbon tetrachloride	0.0250	0.0247	0.0245	98.7	97.9	70.2-123			0.840	20
Chlorobenzene	0.0250	0.0269	0.0266	108	106	78.1-119			1.27	20
Chlorodibromomethane	0.0250	0.0273	0.0267	109	107	74.0-121			2.07	20
Chloroethane	0.0250	0.0296	0.0284	118	113	61.7-135			4.21	20
2-Chloroethyl vinyl ether	0.125	0.140	0.146	112	117	43.8-150			3.90	20
Chloroform	0.0250	0.0234	0.0233	93.7	93.0	76.0-121			0.730	20
Chloromethane	0.0250	0.0220	0.0218	88.0	87.0	61.5-129			1.13	20
2-Chlorotoluene	0.0250	0.0268	0.0253	107	101	74.7-122			5.77	20
4-Chlorotoluene	0.0250	0.0259	0.0255	104	102	77.5-120			1.70	20
1,2-Dibromo-3-Chloropropane	0.0250	0.0246	0.0251	98.5	100	65.4-128			1.78	20
1,2-Dibromoethane	0.0250	0.0259	0.0262	103	105	76.6-121			1.16	20
Dibromomethane	0.0250	0.0255	0.0262	102	105	79.5-118			2.94	20
1,2-Dichlorobenzene	0.0250	0.0253	0.0250	101	100	78.4-117			1.11	20
1,3-Dichlorobenzene	0.0250	0.0272	0.0261	109	104	70.8-128			4.23	20
1,4-Dichlorobenzene	0.0250	0.0251	0.0248	100	99.1	78.8-115			1.20	20
Dichlorodifluoromethane	0.0250	0.0202	0.0211	80.8	84.3	54.8-135			4.16	20
1,1-Dichloroethane	0.0250	0.0237	0.0242	94.8	96.8	70.7-126			2.07	20
1,2-Dichloroethane	0.0250	0.0227	0.0228	91.0	91.2	68.8-124			0.200	20
1,1-Dichloroethene	0.0250	0.0231	0.0230	92.5	91.9	67.8-129			0.650	20
cis-1,2-Dichloroethene	0.0250	0.0241	0.0241	96.3	96.4	76.0-119			0.0500	20
trans-1,2-Dichloroethene	0.0250	0.0241	0.0233	96.6	93.3	72.6-121			3.43	20
1,2-Dichloropropane	0.0250	0.0266	0.0261	107	104	76.5-119			2.01	20
1,1-Dichloropropene	0.0250	0.0241	0.0240	96.3	96.1	73.1-125			0.200	20
1,3-Dichloropropane	0.0250	0.0241	0.0248	96.6	99.0	77.4-117			2.48	20
cis-1,3-Dichloropropene	0.0250	0.0253	0.0258	101	103	78.2-120			2.10	20
trans-1,3-Dichloropropene	0.0250	0.0260	0.0269	104	107	74.3-123			3.25	20
2,2-Dichloropropane	0.0250	0.0219	0.0229	87.6	91.6	62.4-133			4.46	20
Di-isopropyl ether	0.0250	0.0224	0.0226	89.7	90.5	65.6-132			0.800	20
Ethylbenzene	0.0250	0.0270	0.0261	108	104	78.8-122			3.48	20

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

(LCS) 03/21/15 13:46 • (LCSD) 03/21/15 14:07

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Hexachloro-1,3-butadiene	0.0250	0.0234	0.0232	93.5	92.8	64.7-129			0.810	20
Isopropylbenzene	0.0250	0.0273	0.0266	109	106	78.6-132			2.65	20
p-Isopropyltoluene	0.0250	0.0264	0.0255	105	102	74.0-131			3.52	20
2-Butanone (MEK)	0.125	0.126	0.148	101	119	55.0-149			16.3	20
Methylene Chloride	0.0250	0.0233	0.0230	93.1	91.9	70.3-120			1.31	20
4-Methyl-2-pentanone (MIBK)	0.125	0.142	0.148	114	119	70.5-133			4.10	20
Methyl tert-butyl ether	0.0250	0.0236	0.0236	94.5	94.4	71.2-126			0.120	20
Naphthalene	0.0250	0.0250	0.0240	100	96.1	68.4-128			4.16	20
n-Propylbenzene	0.0250	0.0271	0.0264	109	105	78.2-122			2.85	20
Styrene	0.0250	0.0265	0.0261	106	104	80.4-126			1.33	20
1,1,1,2-Tetrachloroethane	0.0250	0.0287	0.0286	115	114	74.2-124			0.360	20
1,1,2,2-Tetrachloroethane	0.0250	0.0268	0.0264	107	105	70.7-122			1.66	20
Tetrachloroethene	0.0250	0.0267	0.0267	107	107	72.6-126			0.0200	20
Toluene	0.0250	0.0249	0.0251	99.7	101	79.7-116			0.900	20
1,1,2-Trichlorotrifluoroethane	0.0250	0.0248	0.0245	99.0	98.2	67.2-143			0.840	20
1,2,3-Trichlorobenzene	0.0250	0.0272	0.0251	109	100	64.9-135			8.23	20
1,2,4-Trichlorobenzene	0.0250	0.0246	0.0242	98.3	96.8	69.7-136			1.56	20
1,1,1-Trichloroethane	0.0250	0.0233	0.0238	93.2	95.1	73.2-123			2.01	20
1,1,2-Trichloroethane	0.0250	0.0257	0.0260	103	104	77.7-118			1.37	20
Trichloroethene	0.0250	0.0271	0.0275	108	110	77.7-118			1.42	20
Trichlorofluoromethane	0.0250	0.0264	0.0259	106	104	63.5-135			1.95	20
1,2,3-Trichloropropane	0.0250	0.0267	0.0260	107	104	71.8-121			2.73	20
1,2,3-Trimethylbenzene	0.0250	0.0258	0.0254	103	101	72.3-116			1.59	20
1,2,4-Trimethylbenzene	0.0250	0.0265	0.0254	106	102	75.0-123			4.29	20
1,3,5-Trimethylbenzene	0.0250	0.0274	0.0263	109	105	75.6-124			3.93	20
Vinyl chloride	0.0250	0.0264	0.0254	106	102	65.9-128			3.72	20
Xylenes, Total	0.0750	0.0805	0.0787	107	105	78.7-121			2.31	20
(S) Toluene-d8				*108*	*108*	*88.5-111*				
(S) Dibromofluoromethane				*99.5*	*97.5*	*78.3-121*				
(S) 4-Bromofluorobenzene				*101*	*102*	*71.0-126*				

L753645-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 03/21/15 17:10 • (MS) 03/21/15 14:56 • (MSD) 03/21/15 15:17

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acetone	0.125	0.00160	0.122	0.153	96.1	121	1	10.0-130			22.6	27.9
Acrolein	0.125	ND	0.170	0.212	136	170	1	10.0-200			22.0	27.7

L753645-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 03/21/15 17:10 • (MS) 03/21/15 14:56 • (MSD) 03/21/15 15:17

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acrylonitrile	0.125	ND	0.134	0.162	107	130	1	49.4-133			18.9	25.3
Benzene	0.0250	ND	0.0255	0.0265	102	106	1	54.3-133			4.05	20
Bromobenzene	0.0250	ND	0.0269	0.0291	108	116	1	63.9-124			7.58	20
Bromodichloromethane	0.0250	ND	0.0264	0.0281	105	113	1	63.9-121			6.51	20
Bromoform	0.0250	ND	0.0307	0.0335	123	134	1	59.5-134			8.51	20.5
Bromomethane	0.0250	ND	0.0298	0.0308	119	123	1	41.7-155			3.08	21.9
n-Butylbenzene	0.0250	ND	0.0274	0.0289	110	116	1	62.7-140			5.25	20.3
sec-Butylbenzene	0.0250	ND	0.0284	0.0314	114	125	1	62.2-136			9.96	20.3
tert-Butylbenzene	0.0250	ND	0.0287	0.0316	115	126	1	63.3-134			9.77	21
Carbon tetrachloride	0.0250	ND	0.0257	0.0270	103	108	1	55.7-134			4.79	20
Chlorobenzene	0.0250	ND	0.0279	0.0301	112	121	1	67.0-125			7.57	20
Chlorodibromomethane	0.0250	ND	0.0285	0.0307	114	123	1	64.3-125			7.39	20.8
Chloroethane	0.0250	ND	0.0293	0.0302	117	121	1	51.5-136			3.03	40
2-Chloroethyl vinyl ether	0.125	ND	0.0473	0.0184	37.9	14.7	1	10.0-155		J3	88.0	20
Chloroform	0.0250	ND	0.0249	0.0261	99.7	104	1	63.0-129			4.51	20
Chloromethane	0.0250	ND	0.0229	0.0234	91.7	93.7	1	42.4-135			2.13	20
2-Chlorotoluene	0.0250	ND	0.0268	0.0290	107	116	1	63.6-128			7.89	20
4-Chlorotoluene	0.0250	ND	0.0274	0.0300	110	120	1	65.7-127			8.95	20
1,2-Dibromo-3-Chloropropane	0.0250	ND	0.0279	0.0313	111	125	1	57.3-136			11.6	27
1,2-Dibromoethane	0.0250	ND	0.0274	0.0299	110	119	1	67.1-125			8.58	20
Dibromomethane	0.0250	ND	0.0274	0.0295	110	118	1	68.2-124			7.25	20
1,2-Dichlorobenzene	0.0250	ND	0.0278	0.0291	111	116	1	68.2-123			4.47	20
1,3-Dichlorobenzene	0.0250	ND	0.0289	0.0314	116	125	1	63.1-131			8.23	20
1,4-Dichlorobenzene	0.0250	ND	0.0276	0.0281	111	112	1	68.6-123			1.57	20
Dichlorodifluoromethane	0.0250	ND	0.0224	0.0231	89.7	92.4	1	40.6-144			3.00	20.2
1,1-Dichloroethane	0.0250	ND	0.0258	0.0273	103	109	1	58.5-132			5.53	20
1,2-Dichloroethane	0.0250	ND	0.0253	0.0273	101	109	1	60.0-126			7.75	20
1,1-Dichloroethene	0.0250	ND	0.0242	0.0256	96.7	102	1	51.1-140			5.68	20.2
cis-1,2-Dichloroethene	0.0250	ND	0.0255	0.0270	102	108	1	59.2-129			5.47	20
trans-1,2-Dichloroethene	0.0250	ND	0.0248	0.0259	99.2	104	1	56.5-129			4.47	20
1,2-Dichloropropane	0.0250	ND	0.0275	0.0285	110	114	1	64.2-123			3.76	20
1,1-Dichloropropene	0.0250	ND	0.0260	0.0270	104	108	1	57.3-136			3.82	20
1,3-Dichloropropane	0.0250	ND	0.0262	0.0286	105	114	1	67.9-121			8.56	20
cis-1,3-Dichloropropene	0.0250	ND	0.0277	0.0291	111	116	1	66.4-125			4.82	20
trans-1,3-Dichloropropene	0.0250	ND	0.0277	0.0301	111	120	1	64.1-128			8.45	20
2,2-Dichloropropane	0.0250	ND	0.0250	0.0251	100	100	1	50.5-144			0.260	21.9
Di-isopropyl ether	0.0250	ND	0.0239	0.0254	95.8	102	1	56.9-136			5.84	20
Ethylbenzene	0.0250	ND	0.0278	0.0293	111	117	1	61.4-133			5.50	20
Hexachloro-1,3-butadiene	0.0250	ND	0.0247	0.0240	98.9	96.1	1	55.1-136			2.89	23.6

L753645-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 03/21/15 17:10 • (MS) 03/21/15 14:56 • (MSD) 03/21/15 15:17

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Isopropylbenzene	0.0250	ND	0.0280	0.0306	112	122	1	66.8-141			8.81	20
p-Isopropyltoluene	0.0250	ND	0.0274	0.0303	110	121	1	63.2-139			10.2	20.4
2-Butanone (MEK)	0.125	ND	0.145	0.184	116	147	1	22.4-138		J5	23.9	27
Methylene Chloride	0.0250	ND	0.0247	0.0260	98.7	104	1	58.1-122			5.27	20
4-Methyl-2-pentanone (MIBK)	0.125	ND	0.158	0.176	127	141	1	60.8-140		J5	10.6	25.1
Methyl tert-butyl ether	0.0250	0.00121	0.0269	0.0284	103	109	1	57.7-134			5.61	20
Naphthalene	0.0250	ND	0.0254	0.0283	101	113	1	58.0-135			11.0	25.5
n-Propylbenzene	0.0250	ND	0.0283	0.0304	113	122	1	65.9-131			7.36	20
Styrene	0.0250	ND	0.0279	0.0297	112	119	1	66.8-133			6.14	20
1,1,1,2-Tetrachloroethane	0.0250	ND	0.0290	0.0320	116	128	1	64.0-128			9.75	20
1,1,2,2-Tetrachloroethane	0.0250	ND	0.0301	0.0339	120	136	1	56.0-132		J5	12.0	22.2
Tetrachloroethene	0.0250	ND	0.0277	0.0295	111	118	1	53.0-139			6.63	20
Toluene	0.0250	ND	0.0267	0.0276	107	110	1	61.4-130			3.09	20
1,1,2-Trichlorotrifluoroethane	0.0250	ND	0.0268	0.0274	107	110	1	54.8-154			2.19	22.5
1,2,3-Trichlorobenzene	0.0250	ND	0.0277	0.0277	111	111	1	59.1-138			0.190	23.7
1,2,4-Trichlorobenzene	0.0250	ND	0.0272	0.0275	109	110	1	63.6-143			1.00	21.9
1,1,1-Trichloroethane	0.0250	ND	0.0251	0.0266	100	106	1	58.7-134			5.85	20
1,1,2-Trichloroethane	0.0250	ND	0.0278	0.0299	111	120	1	66.3-125			7.43	20
Trichloroethene	0.0250	ND	0.0272	0.0280	109	112	1	44.1-149			2.69	20
Trichlorofluoromethane	0.0250	ND	0.0280	0.0293	112	117	1	49.6-145			4.68	21.2
1,2,3-Trichloropropane	0.0250	ND	0.0279	0.0315	112	126	1	61.4-128			12.1	22.4
1,2,3-Trimethylbenzene	0.0250	ND	0.0277	0.0290	111	116	1	61.3-122			4.55	20
1,2,4-Trimethylbenzene	0.0250	ND	0.0276	0.0304	110	122	1	57.4-137			9.67	20
1,3,5-Trimethylbenzene	0.0250	ND	0.0283	0.0313	113	125	1	63.6-132			10.2	20.5
Vinyl chloride	0.0250	ND	0.0274	0.0276	109	110	1	47.8-137			0.950	20
Xylenes, Total	0.0750	ND	0.0833	0.0883	111	118	1	63.3-131			5.92	20
(S) Toluene-d8					*107*	*109*		*88.5-111*				
(S) Dibromofluoromethane					*100*	*101*		*78.3-121*				
(S) 4-Bromofluorobenzene					*100*	*107*		*71.0-126*				

Method Blank (MB)

(MB) 03/23/15 22:29

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0100	0.0500
Acrylonitrile	U		0.00179	0.0100
Benzene	U		0.000270	0.00100
Bromobenzene	U		0.000284	0.00100
Bromodichloromethane	U		0.000254	0.00100
Bromoform	U		0.000424	0.00100
Bromomethane	U		0.00134	0.00500
n-Butylbenzene	U		0.000258	0.00100
sec-Butylbenzene	U		0.000201	0.00100
tert-Butylbenzene	U		0.000206	0.00100
Carbon tetrachloride	U		0.000328	0.00100
Chlorobenzene	U		0.000212	0.00100
Chlorodibromomethane	U		0.000373	0.00100
Chloroethane	U		0.000946	0.00500
2-Chloroethyl vinyl ether	U		0.00234	0.0500
Chloroform	U		0.000229	0.00500
Chloromethane	U		0.000375	0.00250
2-Chlorotoluene	U		0.000301	0.00100
4-Chlorotoluene	U		0.000240	0.00100
1,2-Dibromo-3-Chloropropane	U		0.00105	0.00500
1,2-Dibromoethane	U		0.000343	0.00100
Dibromomethane	U		0.000382	0.00100
1,2-Dichlorobenzene	U		0.000305	0.00100
1,3-Dichlorobenzene	U		0.000239	0.00100
1,4-Dichlorobenzene	U		0.000226	0.00100
Dichlorodifluoromethane	U		0.000713	0.00500
1,1-Dichloroethane	U		0.000199	0.00100
1,2-Dichloroethane	U		0.000265	0.00100
1,1-Dichloroethene	U		0.000303	0.00100
cis-1,2-Dichloroethene	U		0.000235	0.00100
trans-1,2-Dichloroethene	U		0.000264	0.00100
1,2-Dichloropropane	U		0.000358	0.00100
1,1-Dichloropropene	U		0.000317	0.00100
1,3-Dichloropropane	U		0.000207	0.00100
cis-1,3-Dichloropropene	U		0.000262	0.00100
trans-1,3-Dichloropropene	U		0.000267	0.00100
2,2-Dichloropropane	U		0.000279	0.00100
Di-isopropyl ether	U		0.000248	0.00100
Ethylbenzene	U		0.000297	0.00100

Method Blank (MB)

(MB) 03/23/15 22:29

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Hexachloro-1,3-butadiene	U		0.000342	0.00100
Isopropylbenzene	U		0.000243	0.00100
p-Isopropyltoluene	U		0.000204	0.00100
2-Butanone (MEK)	U		0.00468	0.0100
Methylene Chloride	U		0.00100	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.00188	0.0100
Methyl tert-butyl ether	U		0.000212	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.000206	0.00100
Styrene	U		0.000234	0.00100
1,1,1,2-Tetrachloroethane	U		0.000264	0.00100
1,1,2,2-Tetrachloroethane	U		0.000365	0.00100
Tetrachloroethene	U		0.000276	0.00100
Toluene	U		0.000434	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000365	0.00100
1,2,3-Trichlorobenzene	U		0.000306	0.00100
1,2,4-Trichlorobenzene	U		0.000388	0.00100
1,1,1-Trichloroethane	U		0.000286	0.00100
1,1,2-Trichloroethane	U		0.000277	0.00100
Trichloroethene	U		0.000279	0.00100
Trichlorofluoromethane	U		0.000382	0.00500
1,2,3-Trichloropropane	U		0.000741	0.00250
1,2,3-Trimethylbenzene	U		0.000287	0.00100
1,2,4-Trimethylbenzene	U		0.000211	0.00100
1,3,5-Trimethylbenzene	U		0.000266	0.00100
Vinyl chloride	U		0.000291	0.00100
Xylenes, Total	U		0.000698	0.00300
(S) Toluene-d8	*107*			*88.5-111*
(S) Dibromofluoromethane	*97.6*			*78.3-121*
(S) 4-Bromofluorobenzene	*98.7*			*71.0-126*

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

(LCS) 03/24/15 00:04 • (LCSD) 03/24/15 00:21

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.125	0.153	0.160	122	128	35.1-175			4.47	26.1
Acrylonitrile	0.125	0.131	0.136	105	109	56.4-128			3.31	20

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

(LCS) 03/24/15 00:04 • (LCSD) 03/24/15 00:21

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.0250	0.0234	0.0245	93.4	98.1	77.1-121			4.89	20
Bromobenzene	0.0250	0.0220	0.0233	88.1	93.3	78.2-115			5.75	20
Bromodichloromethane	0.0250	0.0209	0.0222	83.5	88.6	74.9-115			5.94	20
Bromoform	0.0250	0.0197	0.0216	78.8	86.2	65.9-132			8.95	20
Bromomethane	0.0250	0.0168	0.0172	67.3	68.8	48.7-165			2.18	20
n-Butylbenzene	0.0250	0.0258	0.0275	103	110	77.5-126			6.41	20
sec-Butylbenzene	0.0250	0.0231	0.0251	92.6	100	75.8-126			7.98	20
tert-Butylbenzene	0.0250	0.0229	0.0251	91.6	100	76.4-126			8.96	20
Carbon tetrachloride	0.0250	0.0216	0.0239	86.6	95.6	70.0-124			9.89	20
Chlorobenzene	0.0250	0.0224	0.0236	89.5	94.3	79.1-119			5.20	20
Chlorodibromomethane	0.0250	0.0211	0.0221	84.6	88.5	73.5-121			4.56	20
Chloroethane	0.0250	0.0176	0.0186	70.6	74.6	66.2-132			5.52	20
2-Chloroethyl vinyl ether	0.125	0.115	0.119	92.1	94.8	37.7-157			2.94	20
Chloroform	0.0250	0.0218	0.0231	87.3	92.2	76.7-122			5.45	20
Chloromethane	0.0250	0.0231	0.0241	92.2	96.4	63.4-131			4.44	20
2-Chlorotoluene	0.0250	0.0222	0.0237	88.7	94.9	75.6-121			6.80	20
4-Chlorotoluene	0.0250	0.0229	0.0240	91.4	96.1	77.3-120			5.03	20
1,2-Dibromo-3-Chloropropane	0.0250	0.0221	0.0238	88.5	95.1	62.8-133			7.23	20
1,2-Dibromoethane	0.0250	0.0211	0.0218	84.2	87.2	78.6-120			3.49	20
Dibromomethane	0.0250	0.0219	0.0228	87.8	91.2	79.4-120			3.78	20
1,2-Dichlorobenzene	0.0250	0.0232	0.0247	93.0	98.6	78.3-118			5.90	20
1,3-Dichlorobenzene	0.0250	0.0219	0.0227	87.5	90.6	72.0-126			3.52	20
1,4-Dichlorobenzene	0.0250	0.0230	0.0236	92.1	94.5	78.3-117			2.57	20
Dichlorodifluoromethane	0.0250	0.0218	0.0242	87.2	97.0	57.1-137			10.6	20
1,1-Dichloroethane	0.0250	0.0228	0.0241	91.1	96.2	75.0-124			5.41	20
1,2-Dichloroethane	0.0250	0.0217	0.0229	86.9	91.4	70.1-124			5.00	20
1,1-Dichloroethene	0.0250	0.0198	0.0219	79.2	87.4	70.4-129			9.85	20
cis-1,2-Dichloroethene	0.0250	0.0220	0.0234	88.2	93.7	78.2-119			6.07	20
trans-1,2-Dichloroethene	0.0250	0.0232	0.0249	92.6	99.5	73.8-122			7.16	20
1,2-Dichloropropane	0.0250	0.0233	0.0250	93.4	100	77.9-119			6.82	20
1,1-Dichloropropene	0.0250	0.0227	0.0254	90.9	102	74.9-124			11.2	20
1,3-Dichloropropane	0.0250	0.0230	0.0236	91.9	94.5	79.1-117			2.75	20
cis-1,3-Dichloropropene	0.0250	0.0229	0.0235	91.6	93.9	79.6-120			2.50	20
trans-1,3-Dichloropropene	0.0250	0.0229	0.0233	91.8	93.2	75.9-124			1.54	20
2,2-Dichloropropane	0.0250	0.0249	0.0259	99.7	104	61.3-136			3.94	20
Di-isopropyl ether	0.0250	0.0233	0.0244	93.2	97.7	70.4-133			4.72	20
Ethylbenzene	0.0250	0.0231	0.0246	92.5	98.3	79.7-122			6.03	20
Hexachloro-1,3-butadiene	0.0250	0.0255	0.0277	102	111	68.2-123			8.42	20
Isopropylbenzene	0.0250	0.0228	0.0250	91.1	100	80.0-135			9.41	20

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

(LCS) 03/24/15 00:04 • (LCSD) 03/24/15 00:21

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
p-Isopropyltoluene	0.0250	0.0226	0.0243	90.3	97.1	75.8-129			7.30	20
2-Butanone (MEK)	0.125	0.113	0.116	90.1	92.4	53.7-153			2.52	21.2
Methylene Chloride	0.0250	0.0259	0.0277	104	111	72.6-120			6.80	20
4-Methyl-2-pentanone (MIBK)	0.125	0.117	0.120	93.8	95.9	70.4-137			2.23	20
Methyl tert-butyl ether	0.0250	0.0219	0.0229	87.4	91.6	73.0-129			4.70	20
Naphthalene	0.0250	0.0246	0.0261	98.5	104	69.8-128			5.77	20
n-Propylbenzene	0.0250	0.0229	0.0250	91.6	100	77.9-123			8.78	20
Styrene	0.0250	0.0239	0.0247	95.4	98.9	82.4-126			3.64	20
1,1,1,2-Tetrachloroethane	0.0250	0.0215	0.0222	85.8	88.7	72.9-124			3.36	20
1,1,2,2-Tetrachloroethane	0.0250	0.0224	0.0232	89.6	92.7	69.4-122			3.34	20
Tetrachloroethene	0.0250	0.0223	0.0236	89.0	94.4	73.9-125			5.89	20
Toluene	0.0250	0.0236	0.0248	94.5	99.2	79.7-118			4.94	20
1,1,2-Trichlorotrifluoroethane	0.0250	0.0219	0.0241	87.5	96.5	70.0-146			9.78	20
1,2,3-Trichlorobenzene	0.0250	0.0251	0.0266	100	106	69.3-131			5.76	20
1,2,4-Trichlorobenzene	0.0250	0.0250	0.0260	99.8	104	71.9-137			4.24	20
1,1,1-Trichloroethane	0.0250	0.0214	0.0232	85.8	92.8	73.7-124			7.90	20
1,1,2-Trichloroethane	0.0250	0.0220	0.0230	88.1	91.8	79.1-118			4.13	20
Trichloroethene	0.0250	0.0218	0.0239	87.3	95.8	77.9-118			9.30	20
Trichlorofluoromethane	0.0250	0.0173	0.0189	69.1	75.6	67.7-131			8.99	20
1,2,3-Trichloropropane	0.0250	0.0209	0.0222	83.6	88.8	71.4-123			6.02	20
1,2,3-Trimethylbenzene	0.0250	0.0234	0.0245	93.5	98.1	73.6-113			4.80	20
1,2,4-Trimethylbenzene	0.0250	0.0224	0.0240	89.7	96.0	75.5-122			6.79	20
1,3,5-Trimethylbenzene	0.0250	0.0232	0.0245	92.7	98.1	75.9-124			5.63	20
Vinyl chloride	0.0250	0.0195	0.0210	77.9	84.2	66.7-130			7.72	20
Xylenes, Total	0.0750	0.0689	0.0738	91.9	98.4	78.8-121			6.82	20
(S) Toluene-d8				*105*	*105*	*88.5-111*				
(S) Dibromofluoromethane				*95.6*	*96.6*	*78.3-121*				
(S) 4-Bromofluorobenzene				*99.0*	*98.5*	*71.0-126*				

L753200-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 03/23/15 22:46 • (MS) 03/24/15 00:38 • (MSD) 03/24/15 00:56

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acetone	0.125	0.0834	2.49	2.51	77.1	77.8	25	10.0-130			0.810	27.9
Acrylonitrile	0.125	ND	2.76	2.90	88.2	92.8	25	49.4-133			5.04	25.3
Benzene	0.0250	0.00246	0.583	0.621	92.8	98.9	25	54.3-133			6.36	20
Bromobenzene	0.0250	0.137	0.695	0.688	89.3	88.3	25	63.9-124			0.970	20

L753200-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 03/23/15 22:46 • (MS) 03/24/15 00:38 • (MSD) 03/24/15 00:56

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Bromodichloromethane	0.0250	0.00185	0.493	0.528	78.7	84.2	25	63.9-121			6.77	20
Bromoform	0.0250	ND	0.483	0.482	77.3	77.1	25	59.5-134			0.320	20.8
Bromomethane	0.0250	0.00863	0.499	0.515	78.5	81.0	25	41.7-155			3.08	20.5
n-Butylbenzene	0.0250	1.11	1.58	1.55	76.4	71.6	25	62.7-140			1.90	20
sec-Butylbenzene	0.0250	0.200	0.779	0.748	92.6	87.6	25	62.2-136			4.10	20.3
tert-Butylbenzene	0.0250	0.00317	0.609	0.592	96.9	94.2	25	63.3-134			2.79	20.3
Carbon tetrachloride	0.0250	ND	0.474	0.511	75.8	81.7	25	55.7-134			7.45	20.3
Chlorobenzene	0.0250	0.00468	0.586	0.583	93.0	92.6	25	67.0-125			0.430	20
Chlorodibromomethane	0.0250	ND	0.520	0.520	83.2	83.2	25	64.3-125			0.0200	20
Chloroethane	0.0250	ND	0.511	0.493	81.7	79.0	25	51.5-136			3.45	20.8
2-Chloroethyl vinyl ether	0.125	ND	2.82	3.15	90.4	101	25	10.0-155			11.0	40
Chloroform	0.0250	0.00189	0.539	0.569	86.0	90.7	25	63.0-129			5.24	20
Chloromethane	0.0250	ND	0.545	0.596	87.2	95.4	25	42.4-135			9.04	20
2-Chlorotoluene	0.0250	ND	0.596	0.590	95.4	94.4	25	63.6-128			1.01	20
4-Chlorotoluene	0.0250	0.455	0.616	0.605	25.8	23.9	25	65.7-127	J6	J6	1.95	20
1,2-Dibromo-3-Chloropropane	0.0250	ND	0.558	0.546	89.3	87.4	25	57.3-136			2.16	27
1,2-Dibromoethane	0.0250	ND	0.547	0.552	87.6	88.3	25	67.1-125			0.790	20
Dibromomethane	0.0250	0.00987	0.533	0.566	83.7	89.0	25	68.2-124			5.97	20
1,2-Dichlorobenzene	0.0250	0.00486	0.605	0.609	96.0	96.6	25	68.2-123			0.630	20
1,3-Dichlorobenzene	0.0250	0.00184	0.585	0.575	93.3	91.6	25	63.1-131			1.79	20
1,4-Dichlorobenzene	0.0250	0.00185	0.590	0.602	94.2	96.1	25	68.6-123			2.01	20
Dichlorodifluoromethane	0.0250	ND	0.467	0.504	74.8	80.6	25	40.6-144			7.49	20.2
1,1-Dichloroethane	0.0250	ND	0.562	0.598	89.9	95.7	25	58.5-132			6.22	20
1,2-Dichloroethane	0.0250	ND	0.545	0.574	87.2	91.8	25	60.0-126			5.05	20
1,1-Dichloroethene	0.0250	ND	0.553	0.545	88.5	87.2	25	51.1-140			1.49	20.2
cis-1,2-Dichloroethene	0.0250	ND	0.555	0.567	88.8	90.7	25	59.2-129			2.14	20
trans-1,2-Dichloroethene	0.0250	ND	0.562	0.589	90.0	94.2	25	56.5-129			4.64	20
1,2-Dichloropropane	0.0250	0.0539	0.594	0.633	86.4	92.6	25	64.2-123			6.34	20
1,1-Dichloropropene	0.0250	ND	0.543	0.578	86.8	92.5	25	57.3-136			6.30	20
1,3-Dichloropropane	0.0250	ND	0.586	0.608	93.8	97.4	25	67.9-121			3.71	20
cis-1,3-Dichloropropene	0.0250	ND	0.569	0.593	91.1	94.8	25	66.4-125			4.02	20
trans-1,3-Dichloropropene	0.0250	ND	0.544	0.574	87.1	91.8	25	64.1-128			5.29	20
2,2-Dichloropropane	0.0250	ND	0.520	0.546	83.2	87.4	25	50.5-144			4.91	21.9
Di-isopropyl ether	0.0250	ND	0.601	0.639	96.1	102	25	56.9-136			6.19	20
Ethylbenzene	0.0250	1.07	1.48	1.46	66.2	63.2	25	61.4-133			1.28	20
Hexachloro-1,3-butadiene	0.0250	ND	0.620	0.626	99.3	100	25	55.1-136			0.920	23.6
Isopropylbenzene	0.0250	0.205	0.756	0.747	88.2	86.9	25	66.8-141			1.11	20
p-Isopropyltoluene	0.0250	0.449	0.730	0.703	44.9	40.7	25	63.2-139	J6	J6	3.68	20.4
2-Butanone (MEK)	0.125	0.0787	2.32	2.50	71.7	77.5	25	22.4-138			7.46	27

L753200-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 03/23/15 22:46 • (MS) 03/24/15 00:38 • (MSD) 03/24/15 00:56

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Methylene Chloride	0.0250	0.0682	0.647	0.690	92.7	99.5	25	58.1-122			6.36	20
4-Methyl-2-pentanone (MIBK)	0.125	0.0134	2.96	2.95	94.3	94.1	25	60.8-140			0.180	25.1
Methyl tert-butyl ether	0.0250	ND	0.523	0.557	83.7	89.1	25	57.7-134			6.28	20
Naphthalene	0.0250	5.63	5.80	5.56	27.3	0.000	25	58.0-135	V	V	4.31	25.5
n-Propylbenzene	0.0250	1.40	1.76	1.69	56.4	46.0	25	10.0-176			3.75	26.6
Styrene	0.0250	0.0623	0.697	0.705	102	103	25	66.8-133			1.12	20
1,1,1,2-Tetrachloroethane	0.0250	ND	0.553	0.526	88.4	84.1	25	64.0-128			4.94	20
1,1,2,2-Tetrachloroethane	0.0250	0.0958	0.729	0.734	101	102	25	56.0-132			0.590	22.2
Tetrachloroethene	0.0250	ND	0.528	0.530	84.5	84.8	25	53.0-139			0.310	20
Toluene	0.0250	0.206	0.766	0.794	89.6	94.1	25	61.4-130			3.57	20
1,1,2-Trichlorotrifluoroethane	0.0250	ND	0.569	0.577	91.0	92.4	25	54.8-154			1.52	22.5
1,2,3-Trichlorobenzene	0.0250	0.00491	0.648	0.622	103	98.8	25	59.1-138			4.03	23.7
1,2,4-Trichlorobenzene	0.0250	0.00190	0.654	0.627	104	100	25	63.6-143			4.27	21.9
1,1,1-Trichloroethane	0.0250	ND	0.488	0.517	78.1	82.7	25	58.7-134			5.71	20
1,1,2-Trichloroethane	0.0250	0.00499	0.571	0.578	90.6	91.6	25	66.3-125			1.12	20
Trichloroethene	0.0250	ND	0.538	0.562	86.1	89.9	25	44.1-149			4.31	20
Trichlorofluoromethane	0.0250	ND	0.460	0.479	73.6	76.6	25	49.6-145			3.96	21.2
1,2,3-Trichloropropane	0.0250	0.0188	0.622	0.558	96.5	86.2	25	61.4-128			10.9	22.4
1,2,3-Trimethylbenzene	0.0250	3.71	3.95	3.81	37.0	15.4	25	61.3-122	V	V	3.49	20
1,2,4-Trimethylbenzene	0.0250	16.3	14.4	13.3	0.000	0.000	25	57.4-137	V	V	8.34	20
1,3,5-Trimethylbenzene	0.0250	3.95	3.97	3.73	2.96	0.000	25	63.6-132	V	V	6.28	20.5
Vinyl chloride	0.0250	ND	0.440	0.472	70.3	75.6	25	47.8-137			7.23	20
Xylenes, Total	0.0750	8.58	8.98	8.64	21.4	3.18	25	63.3-131	V	V	3.88	20
(S) Toluene-d8					*106*	*107*		*88.5-111*				
(S) Dibromofluoromethane					*93.6*	*92.8*		*78.3-121*				
(S) 4-Bromofluorobenzene					*105*	*104*		*71.0-126*				

Method Blank (MB)

(MB) 03/19/15 09:49

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH C6 - C12	U		15.0	50.0
TPH C12 - C28	U		15.0	50.0
TPH C28 - C35	U		15.0	50.0
TPH C6 - C35	U		15.0	50.0
(S) o-Terphenyl	*99.0*			*70.0-130*

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

(LCS) 03/19/15 10:02 • (LCSD) 03/19/15 10:14

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH C6 - C12	250	236	233	94.4	93.1	75.0-125			1.43	20
TPH C12 - C28	250	248	247	99.3	98.8	75.0-125			0.580	20
TPH C6 - C35	500	484	480	96.9	95.9	75.0-125			0.990	20
(S) o-Terphenyl				*96.2*	*94.5*	*70.0-130*				

L753660-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 03/19/15 12:32 • (MS) 03/19/15 12:45 • (MSD) 03/19/15 12:57

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH C6 - C12	250	ND	236	233	94.2	93.0	1	75.0-125			1.29	20
TPH C12 - C28	250	0.297	254	253	102	101	1	75.0-125			0.480	20
TPH C6 - C35	500	ND	490	486	98.0	97.1	1	75.0-125			0.870	20
(S) o-Terphenyl					*96.9*	*96.8*		*70.0-130*				

Method Blank (MB)

(MB) 03/21/15 16:29

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
2,4-D	U		0.0230	0.0700
Dalapon	U		0.267	0.800
2,4-DB	U		0.0230	0.0700
Dicamba	U		0.0230	0.0700
Dichloroprop	U		0.0230	0.0700
Dinoseb	U		0.0230	0.0700
MCPA	U		2.16	6.50
MCPP	U		2.16	6.50
2,4,5-T	U		0.0230	0.0700
2,4,5-TP (Silvex)	U		0.0230	0.0700
(S) 2,4-Dichlorophenyl Acetic Acid	*78.0*			*23.5-129*

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

(LCS) 03/21/15 16:41 • (LCSD) 03/21/15 16:53

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
2,4,5-T	0.1667	0.0938	0.110	56.3	66.1	44.9-111			16.0	21.5
2,4,5-TP (Silvex)	0.1667	0.0983	0.115	59.0	69.2	48.4-110			16.0	25.9
2,4-D	0.1667	0.0700	0.0854	42.0	51.3	40.0-112			19.9	24.8
2,4-DB	0.1667	0.0811	0.107	48.7	63.9	33.8-126			27.1	27.8
Dalapon	0.1667	0.0911	0.102	54.6	61.2	36.7-119			11.4	28
Dicamba	0.1667	0.133	0.155	79.6	93.0	50.2-125			15.6	20
Dichloroprop	0.1667	0.0816	0.0985	48.9	59.1	39.9-99.0			18.8	20.1
Dinoseb	0.1667	0.114	0.130	68.3	78.2	15.6-109			13.5	40
MCPA	16.666	7.29	8.92	43.7	53.5	34.7-110			20.2	31.7
MCPP	16.666	9.72	11.5	58.3	69.0	41.0-121			16.8	24.9
(S) 2,4-Dichlorophenyl Acetic Acid				*65.2*	*75.6*	*23.5-129*				

L753425-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 03/21/15 19:39 • (MS) 03/21/15 19:52 • (MSD) 03/21/15 20:04

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
2,4,5-T	0.1667	ND	0.104	0.0907	62.4	54.4	1	26.5-114			13.6	36
2,4,5-TP (Silvex)	0.1667	ND	0.0994	0.0825	59.6	49.5	1	29.5-111			18.5	37.7
2,4-D	0.1667	ND	0.114	0.105	68.3	63.0	1	14.9-129			8.14	40
2,4-DB	0.1667	ND	0.104	0.0966	62.4	58.0	1	10.0-141			7.34	40

L753425-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 03/21/15 19:39 • (MS) 03/21/15 19:52 • (MSD) 03/21/15 20:04

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Dalapon	0.1667	ND	0.112	0.113	67.0	67.6	1	17.5-118			0.840	40
Dicamba	0.1667	ND	0.140	0.133	83.9	79.6	1	17.0-146			5.21	36.9
Dichloroprop	0.1667	ND	0.0942	0.0830	56.5	49.8	1	27.8-95.9			12.7	34.1
Dinoseb	0.1667	ND	0.106	0.0864	63.7	51.8	1	10.0-119			20.5	40
MCPA	16.666	ND	10.1	9.14	60.8	54.9	1	14.3-134			10.3	40
MCPP	16.666	ND	14.0	11.3	84.0	68.1	1	10.0-147			21.0	40
(S) 2,4-Dichlorophenyl Acetic Acid					*73.8*	*71.2*		*23.5-129*				

Method Blank (MB)

(MB) 03/19/15 17:35

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Aldrin	U		0.00135	0.0200
Alpha BHC	U		0.00136	0.0200
Beta BHC	U		0.00160	0.0200
Delta BHC	U		0.00143	0.0200
Gamma BHC	U		0.00145	0.0200
4,4-DDD	U		0.00156	0.0200
4,4-DDE	U		0.00154	0.0200
4,4-DDT	U		0.00200	0.0200
Dieldrin	U		0.00152	0.0200
Endosulfan I	U		0.00149	0.0200
Endosulfan II	U		0.00160	0.0200
Endosulfan sulfate	U		0.00151	0.0200
Endrin	U		0.00157	0.0200
Endrin aldehyde	U		0.00129	0.0200
Endrin ketone	U		0.00165	0.0200
Heptachlor	U		0.00154	0.0200
Heptachlor epoxide	U		0.00161	0.0200
Hexachlorobenzene	U		0.00124	0.0200
Methoxychlor	U		0.00178	0.0200
Chlordane	U		0.0390	0.200
Toxaphene	U		0.0360	0.400
(S) Decachlorobiphenyl	*78.3*			*10.0-143*
(S) Tetrachloro-m-xylene	*89.7*			*29.2-144*

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

(LCS) 03/19/15 17:49 • (LCSD) 03/19/15 18:03

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Aldrin	0.0667	0.0735	0.0634	110	95.1	65.8-124			14.8	20
Alpha BHC	0.0667	0.0737	0.0653	110	97.8	65.7-126			12.1	20
Beta BHC	0.0667	0.0711	0.0628	107	94.1	57.6-137			12.5	20
Delta BHC	0.0667	0.0700	0.0614	105	92.0	65.7-124			13.2	20
Gamma BHC	0.0667	0.0736	0.0650	110	97.4	64.5-121			12.5	20
4,4-DDD	0.0667	0.0718	0.0596	108	89.4	65.6-122			18.6	20
4,4-DDE	0.0667	0.0718	0.0601	108	90.1	61.9-132			17.8	20
4,4-DDT	0.0667	0.0768	0.0631	115	94.7	57.6-125			19.5	20
Dieldrin	0.0667	0.0729	0.0618	109	92.7	64.1-122			16.5	20

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

(LCS) 03/19/15 17:49 • (LCSD) 03/19/15 18:03

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Endosulfan I	0.0667	0.0711	0.0604	107	90.6	62.0-121			16.3	20
Endosulfan II	0.0667	0.0702	0.0590	105	88.5	64.2-117			17.3	20
Endosulfan sulfate	0.0667	0.0696	0.0585	104	87.7	58.3-128			17.3	20
Endrin	0.0667	0.0775	0.0648	116	97.1	53.6-127			17.9	20
Endrin aldehyde	0.0667	0.0527	0.0451	79.1	67.6	37.4-130			15.7	20
Endrin ketone	0.0667	0.0664	0.0567	99.5	85.0	63.0-121			15.7	20
Heptachlor	0.0667	0.0773	0.0675	116	101	66.4-118			13.6	20
Heptachlor epoxide	0.0667	0.0714	0.0614	107	92.0	60.6-132			15.2	20
Hexachlorobenzene	0.0667	0.0669	0.0598	100	89.7	57.6-131			11.2	20
Methoxychlor	0.0667	0.0725	0.0601	109	90.1	54.8-131			18.8	20
(S) Decachlorobiphenyl				*93.8*	*81.5*	*10.0-143*				
(S) Tetrachloro-m-xylene				*104*	*91.0*	*29.2-144*				

L753660-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 03/19/15 20:09 • (MS) 03/19/15 20:22 • (MSD) 03/19/15 20:36

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Aldrin	0.0667	ND	0.0729	0.0708	109	106	1	20.2-150			2.95	20
Alpha BHC	0.0667	ND	0.0777	0.0754	116	113	1	35.3-155			2.91	20
Beta BHC	0.0667	ND	0.0741	0.0715	111	107	1	30.4-160			3.65	20
Delta BHC	0.0667	ND	0.0728	0.0698	109	105	1	27.8-160			4.16	20
Gamma BHC	0.0667	ND	0.0767	0.0746	115	112	1	32.6-149			2.69	20
4,4-DDD	0.0667	ND	0.0699	0.0669	105	100	1	33.0-145			4.40	20
4,4-DDE	0.0667	ND	0.0695	0.0662	104	99.3	1	26.3-151			4.84	20
4,4-DDT	0.0667	ND	0.0678	0.0656	102	98.3	1	11.8-145			3.30	23.8
Dieldrin	0.0667	ND	0.0722	0.0697	108	104	1	24.8-149			3.59	20
Endosulfan I	0.0667	ND	0.0712	0.0688	107	103	1	20.7-152			3.43	20
Endosulfan II	0.0667	ND	0.0697	0.0667	104	100	1	22.1-150			4.35	20
Endosulfan sulfate	0.0667	ND	0.0689	0.0672	103	101	1	24.6-151			2.50	21.5
Endrin	0.0667	ND	0.0748	0.0710	112	106	1	27.3-149			5.20	21.2
Endrin aldehyde	0.0667	ND	0.0680	0.0653	102	97.9	1	11.0-157			4.18	20
Endrin ketone	0.0667	ND	0.0669	0.0647	100	97.0	1	28.5-148			3.37	20
Heptachlor	0.0667	ND	0.0777	0.0737	116	111	1	26.7-144			5.27	20
Heptachlor epoxide	0.0667	ND	0.0720	0.0694	108	104	1	25.2-155			3.73	20
Hexachlorobenzene	0.0667	ND	0.0697	0.0676	105	101	1	19.0-156			3.07	20
Methoxychlor	0.0667	ND	0.0675	0.0661	101	99.1	1	10.0-165			2.08	25.4
(S) Decachlorobiphenyl					*79.1*	*75.5*		*10.0-143*				
(S) Tetrachloro-m-xylene					*109*	*105*		*29.2-144*				

Method Blank (MB)

(MB) 03/18/15 12:04

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acenaphthene	U		0.00642	0.0330
Acenaphthylene	U		0.00671	0.0330
Anthracene	U		0.00632	0.0330
Benzidine	U		0.0637	0.333
Benzo(a)anthracene	U		0.00428	0.0330
Benzo(b)fluoranthene	U		0.00695	0.0330
Benzo(k)fluoranthene	U		0.00582	0.0330
Benzo(g,h,i)perylene	U		0.00721	0.0330
Benzo(a)pyrene	U		0.00548	0.0330
Bis(2-chlorethoxy)methane	U		0.00770	0.333
Bis(2-chloroethyl)ether	U		0.00896	0.333
Bis(2-chloroisopropyl)ether	U		0.00760	0.333
4-Bromophenyl-phenylether	U		0.0114	0.333
2-Chloronaphthalene	U		0.00639	0.0330
4-Chlorophenyl-phenylether	U		0.00627	0.333
Chrysene	U		0.00555	0.0330
Dibenz(a,h)anthracene	U		0.00821	0.0330
3,3-Dichlorobenzidine	U		0.0794	0.333
2,4-Dinitrotoluene	U		0.00607	0.333
2,6-Dinitrotoluene	U		0.00737	0.333
Fluoranthene	U		0.00496	0.0330
Fluorene	U		0.00682	0.0330
Hexachlorobenzene	U		0.00856	0.333
Hexachloro-1,3-butadiene	U		0.0100	0.333
Hexachlorocyclopentadiene	U		0.0587	0.333
Hexachloroethane	U		0.0134	0.333
Indeno(1,2,3-cd)pyrene	U		0.00772	0.0330
Isophorone	U		0.00522	0.333
Naphthalene	U		0.00889	0.0330
Nitrobenzene	U		0.00695	0.333
n-Nitrosodimethylamine	U		0.0647	0.333
n-Nitrosodiphenylamine	U		0.00594	0.333
n-Nitrosodi-n-propylamine	U		0.00906	0.333
Phenanthrene	U		0.00528	0.0330
Benzylbutyl phthalate	U		0.0103	0.333
Bis(2-ethylhexyl)phthalate	U		0.0120	0.333
Di-n-butyl phthalate	U		0.0109	0.333
Diethyl phthalate	U		0.00691	0.333
Dimethyl phthalate	U		0.00540	0.333

Method Blank (MB)

(MB) 03/18/15 12:04

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Di-n-octyl phthalate	U		0.00907	0.333
Pyrene	U		0.0123	0.0330
1,2,4-Trichlorobenzene	U		0.00876	0.333
4-Chloro-3-methylphenol	U		0.00477	0.333
2-Chlorophenol	U		0.00831	0.333
2,4-Dichlorophenol	U		0.00746	0.333
2,4-Dimethylphenol	U		0.0471	0.333
4,6-Dinitro-2-methylphenol	U		0.124	0.333
2,4-Dinitrophenol	U		0.0980	0.333
2-Nitrophenol	U		0.0130	0.333
4-Nitrophenol	U		0.0525	0.333
Pentachlorophenol	U		0.0480	0.333
Phenol	U		0.00695	0.333
2,4,6-Trichlorophenol	U		0.00779	0.333
(S) Nitrobenzene-d5	*61.6*			*21.9-129*
(S) 2-Fluorobiphenyl	*62.4*			*34.9-129*
(S) p-Terphenyl-d14	*53.8*			*21.5-128*
(S) Phenol-d5	*59.6*			*26.3-121*
(S) 2-Fluorophenol	*56.2*			*21.1-116*
(S) 2,4,6-Tribromophenol	*63.5*			*21.6-142*

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

(LCS) 03/18/15 11:21 • (LCSD) 03/18/15 11:43

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acenaphthene	0.333	0.242	0.230	72.8	69.0	48.9-107			5.38	20
Acenaphthylene	0.333	0.248	0.240	74.4	72.1	49.2-111			3.06	20
Anthracene	0.333	0.249	0.234	74.9	70.3	52.0-112			6.25	20
Benzidine	0.333	0.0596	0.0612	17.9	18.4	0.000-48.0			2.68	40
Benzo(a)anthracene	0.333	0.247	0.231	74.2	69.3	52.3-106			6.75	20
Benzo(b)fluoranthene	0.333	0.237	0.245	71.2	73.6	51.3-106			3.38	20
Benzo(k)fluoranthene	0.333	0.243	0.211	72.8	63.5	52.9-107			13.8	20
Benzo(g,h,i)perylene	0.333	0.258	0.244	77.6	73.2	45.8-108			5.87	20
Benzo(a)pyrene	0.333	0.243	0.231	72.9	69.4	51.9-106			4.90	20
Bis(2-chlorethoxy)methane	0.333	0.240	0.232	72.1	69.8	44.9-108			3.17	20
Bis(2-chloroethyl)ether	0.333	0.208	0.209	62.6	62.8	32.5-112			0.280	26
Bis(2-chloroisopropyl)ether	0.333	0.238	0.228	71.6	68.5	40.4-99.0			4.38	20.7

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

(LCS) 03/18/15 11:21 • (LCSD) 03/18/15 11:43

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
4-Bromophenyl-phenylether	0.333	0.250	0.237	75.2	71.1	51.4-110			5.51	20
2-Chloronaphthalene	0.333	0.251	0.241	75.2	72.2	47.1-105			4.07	20
4-Chlorophenyl-phenylether	0.333	0.245	0.236	73.7	71.0	48.1-108			3.74	20
Chrysene	0.333	0.235	0.222	70.4	66.6	54.4-110			5.54	20
Dibenz(a,h)anthracene	0.333	0.254	0.243	76.1	73.1	45.7-111			4.06	20
3,3-Dichlorobenzidine	0.333	0.252	0.237	75.6	71.3	21.0-101			5.86	22
2,4-Dinitrotoluene	0.333	0.268	0.263	80.5	79.0	53.0-112			1.89	20
2,6-Dinitrotoluene	0.333	0.269	0.259	80.8	77.6	51.6-110			4.06	20
Fluoranthene	0.333	0.254	0.238	76.3	71.5	53.7-110			6.49	20
Fluorene	0.333	0.246	0.237	74.0	71.1	51.1-109			3.95	20
Hexachlorobenzene	0.333	0.254	0.241	76.2	72.3	43.2-104			5.21	20.1
Hexachloro-1,3-butadiene	0.333	0.215	0.210	64.7	63.1	41.5-112			2.46	20
Hexachlorocyclopentadiene	0.333	0.149	0.135	44.8	40.5	13.5-123			10.2	20.7
Hexachloroethane	0.333	0.201	0.197	60.3	59.1	36.2-103			1.95	22.7
Indeno(1,2,3-cd)pyrene	0.333	0.255	0.243	76.7	72.9	47.5-109			4.97	20
Isophorone	0.333	0.255	0.246	76.4	74.0	28.8-104			3.25	20
Naphthalene	0.333	0.223	0.212	66.9	63.8	43.4-103			4.78	20
Nitrobenzene	0.333	0.244	0.236	73.4	70.8	40.7-109			3.65	21
n-Nitrosodimethylamine	0.333	0.199	0.186	59.7	55.8	18.1-122			6.84	23.5
n-Nitrosodiphenylamine	0.333	0.249	0.237	74.7	71.3	48.8-107			4.73	20
n-Nitrosodi-n-propylamine	0.333	0.248	0.247	74.3	74.3	43.3-109			0.100	20
Phenanthrene	0.333	0.248	0.230	74.4	69.2	51.6-107			7.25	20
Benzylbutyl phthalate	0.333	0.282	0.270	84.6	81.0	47.5-115			4.36	20
Bis(2-ethylhexyl)phthalate	0.333	0.304	0.287	91.3	86.2	48.1-116			5.74	20.5
Di-n-butyl phthalate	0.333	0.279	0.264	83.6	79.2	49.7-113			5.43	20
Diethyl phthalate	0.333	0.270	0.255	81.0	76.7	52.0-112			5.54	20
Dimethyl phthalate	0.333	0.255	0.244	76.7	73.2	51.4-108			4.71	20
Di-n-octyl phthalate	0.333	0.297	0.287	89.2	86.0	49.6-112			3.64	22
Pyrene	0.333	0.236	0.220	70.8	66.0	47.1-108			6.94	20
1,2,4-Trichlorobenzene	0.333	0.214	0.209	64.2	62.6	39.8-100			2.48	20
4-Chloro-3-methylphenol	0.333	0.257	0.248	77.3	74.3	51.1-113			3.91	20
2-Chlorophenol	0.333	0.224	0.219	67.2	65.9	40.8-103			1.92	20
2,4-Dichlorophenol	0.333	0.247	0.243	74.2	73.1	46.2-109			1.52	20
2,4-Dimethylphenol	0.333	0.239	0.227	71.9	68.1	42.2-110			5.41	20
4,6-Dinitro-2-methylphenol	0.333	0.273	0.255	82.0	76.6	23.1-119			6.75	23.7
2,4-Dinitrophenol	0.333	0.159	0.158	47.8	47.4	10.0-105			0.840	36.5
2-Nitrophenol	0.333	0.257	0.248	77.3	74.4	44.2-113			3.79	20.9
4-Nitrophenol	0.333	0.279	0.267	83.8	80.1	34.8-109			4.56	20
Pentachlorophenol	0.333	0.198	0.192	59.5	57.7	16.2-102			3.06	22.9

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

(LCS) 03/18/15 11:21 • (LCSD) 03/18/15 11:43

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Phenol	0.333	0.240	0.232	72.0	69.6	41.5-106			3.29	20
2,4,6-Trichlorophenol	0.333	0.244	0.239	73.4	71.8	44.4-108			2.27	20
(S) Nitrobenzene-d5				*68.8*	*67.2*	*21.9-129*				
(S) 2-Fluorobiphenyl				*67.9*	*66.1*	*34.9-129*				
(S) p-Terphenyl-d14				*59.9*	*56.2*	*21.5-128*				
(S) Phenol-d5				*68.4*	*66.5*	*26.3-121*				
(S) 2-Fluorophenol				*63.4*	*62.8*	*21.1-116*				
(S) 2,4,6-Tribromophenol				*74.0*	*71.6*	*21.6-142*				

L753718-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 03/19/15 21:05 • (MS) 03/19/15 21:27 • (MSD) 03/19/15 21:49

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acenaphthene	0.333	ND	0.244	0.233	73.3	69.9	1	32.2-134			4.74	27.3
Acenaphthylene	0.333	ND	0.241	0.235	72.4	70.5	1	38.7-129			2.71	25.9
Anthracene	0.333	ND	0.244	0.243	73.2	72.8	1	32.3-137			0.550	28.4
Benzidine	0.333	ND	0.00183	0.000971	0.549	0.292	1	0.000-49.9		J3	61.3	40
Benzo(a)anthracene	0.333	ND	0.235	0.228	70.5	68.5	1	33.3-124			2.85	29
Benzo(b)fluoranthene	0.333	ND	0.269	0.268	80.6	80.4	1	23.3-133			0.270	30.3
Benzo(k)fluoranthene	0.333	ND	0.285	0.276	85.6	82.7	1	31.0-129			3.35	26.7
Benzo(g,h,i)perylene	0.333	ND	0.0939	0.0957	28.2	28.7	1	10.0-127			1.93	31.9
Benzo(a)pyrene	0.333	ND	0.247	0.242	74.1	72.8	1	28.2-128			1.82	28.4
Bis(2-chlorethoxy)methane	0.333	ND	0.239	0.228	71.9	68.6	1	35.0-132			4.71	26.1
Bis(2-chloroethyl)ether	0.333	ND	0.218	0.197	65.6	59.2	1	28.8-128			10.2	33.6
Bis(2-chloroisopropyl)ether	0.333	ND	0.248	0.228	74.5	68.4	1	31.8-118			8.57	31.7
4-Bromophenyl-phenylether	0.333	ND	0.241	0.232	72.5	69.8	1	39.0-130			3.83	26
2-Chloronaphthalene	0.333	ND	0.249	0.238	74.7	71.4	1	37.5-123			4.43	26.5
4-Chlorophenyl-phenylether	0.333	ND	0.230	0.224	69.0	67.2	1	37.9-123			2.54	25.9
Chrysene	0.333	ND	0.230	0.225	69.0	67.4	1	36.3-129			2.27	28
Dibenz(a,h)anthracene	0.333	ND	0.117	0.117	35.3	35.3	1	10.5-128			0.0100	29.5
3,3-Dichlorobenzidine	0.333	ND	0.211	0.209	63.4	62.7	1	10.0-129			1.10	40
2,4-Dinitrotoluene	0.333	ND	0.245	0.237	73.6	71.2	1	27.8-147			3.23	29.7
2,6-Dinitrotoluene	0.333	ND	0.247	0.246	74.3	74.0	1	36.5-137			0.390	29.7
Fluoranthene	0.333	ND	0.252	0.241	75.7	72.4	1	27.9-138			4.50	26.9
Fluorene	0.333	ND	0.234	0.224	70.3	67.3	1	34.0-133			4.36	27.1
Hexachlorobenzene	0.333	ND	0.243	0.231	72.9	69.5	1	34.4-116			4.77	25.4
Hexachloro-1,3-butadiene	0.333	ND	0.217	0.197	65.2	59.3	1	36.5-125			9.62	29.7

L753718-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 03/19/15 21:05 • (MS) 03/19/15 21:27 • (MSD) 03/19/15 21:49

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Hexachlorocyclopentadiene	0.333	ND	0.0851	0.0818	25.6	24.6	1	10.0-124			3.88	37.5
Hexachloroethane	0.333	ND	0.210	0.182	63.0	54.7	1	11.3-143			14.1	31.9
Indeno(1,2,3-cd)pyrene	0.333	ND	0.114	0.114	34.1	34.4	1	10.0-128			0.760	31.5
Isophorone	0.333	ND	0.255	0.246	76.6	73.9	1	25.7-116			3.58	27.7
Naphthalene	0.333	ND	0.234	0.211	70.2	63.4	1	36.4-121			10.2	27.2
Nitrobenzene	0.333	ND	0.243	0.222	72.9	66.6	1	30.9-134			9.00	27.8
n-Nitrosodimethylamine	0.333	ND	0.199	0.171	59.9	51.3	1	19.2-127			15.4	32
n-Nitrosodiphenylamine	0.333	ND	0.233	0.225	69.9	67.6	1	26.8-133			3.34	25.9
n-Nitrosodi-n-propylamine	0.333	ND	0.239	0.225	71.9	67.7	1	33.0-134			6.01	28.2
Phenanthrene	0.333	ND	0.246	0.234	73.8	70.4	1	30.8-137			4.69	26.5
Benzylbutyl phthalate	0.333	ND	0.215	0.212	64.7	63.7	1	33.4-128			1.56	28.5
Bis(2-ethylhexyl)phthalate	0.333	ND	0.222	0.216	66.6	65.0	1	21.8-141			2.48	35.2
Di-n-butyl phthalate	0.333	ND	0.248	0.242	74.5	72.6	1	32.2-133			2.65	25.9
Diethyl phthalate	0.333	ND	0.243	0.239	72.9	71.9	1	39.4-136			1.37	25.5
Dimethyl phthalate	0.333	ND	0.248	0.241	74.4	72.4	1	35.8-137			2.72	25.4
Di-n-octyl phthalate	0.333	ND	0.252	0.243	75.6	73.0	1	28.5-128			3.43	32.5
Pyrene	0.333	ND	0.203	0.200	61.0	60.1	1	24.1-130			1.54	29.9
1,2,4-Trichlorobenzene	0.333	ND	0.222	0.203	66.6	61.0	1	36.5-114			8.84	28.4
4-Chloro-3-methylphenol	0.333	ND	0.262	0.246	78.6	74.0	1	27.0-154			6.07	26.6
2-Chlorophenol	0.333	ND	0.225	0.208	67.6	62.4	1	33.2-121			8.08	29.3
2,4-Dichlorophenol	0.333	ND	0.255	0.241	76.4	72.4	1	34.8-134			5.49	27.3
2,4-Dimethylphenol	0.333	ND	0.255	0.235	76.6	70.5	1	12.3-149			8.26	32.3
4,6-Dinitro-2-methylphenol	0.333	ND	0.0809	0.0905	24.3	27.2	1	10.0-144			11.2	32.7
2,4-Dinitrophenol	0.333	ND	0.0681	0.0724	20.5	21.8	1	10.0-121			6.14	39.4
2-Nitrophenol	0.333	ND	0.251	0.228	75.5	68.5	1	29.5-144			9.67	29.9
4-Nitrophenol	0.333	ND	0.262	0.255	78.8	76.4	1	20.0-133			3.02	30.2
Pentachlorophenol	0.333	ND	0.272	0.268	81.8	80.3	1	10.0-139			1.83	28.3
Phenol	0.333	ND	0.239	0.222	71.9	66.7	1	25.1-130			7.38	29.6
2,4,6-Trichlorophenol	0.333	ND	0.259	0.251	77.8	75.3	1	33.8-133			3.31	28.1
(S) Nitrobenzene-d5					*67.9*	*61.4*		*21.9-129*				
(S) 2-Fluorobiphenyl					*71.4*	*66.8*		*34.9-129*				
(S) p-Terphenyl-d14					*53.7*	*53.4*		*21.5-128*				
(S) Phenol-d5					*69.2*	*65.0*		*26.3-121*				
(S) 2-Fluorophenol					*67.5*	*58.8*		*21.1-116*				
(S) 2,4,6-Tribromophenol					*71.3*	*70.3*		*21.6-142*				

Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND,U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.
SDL	Sample Detection Limit.
MQL	Method Quantitation Limit.
Unadj. MQL	Unadjusted Method Quantitation Limit.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits.
J3	The associated batch QC was outside the established quality control range for precision.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
V	The sample concentration is too high to evaluate accurate spike recoveries.

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Conneticut	PH-0197	North Carolina [1]	DW21704
Florida	E87487	North Carolina [2]	41
Georgia	NELAP	North Dakota	R-140
Georgia [1]	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky [1]	90010	South Dakota	n/a
Kentucky [2]	16	Tennessee [1 4]	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

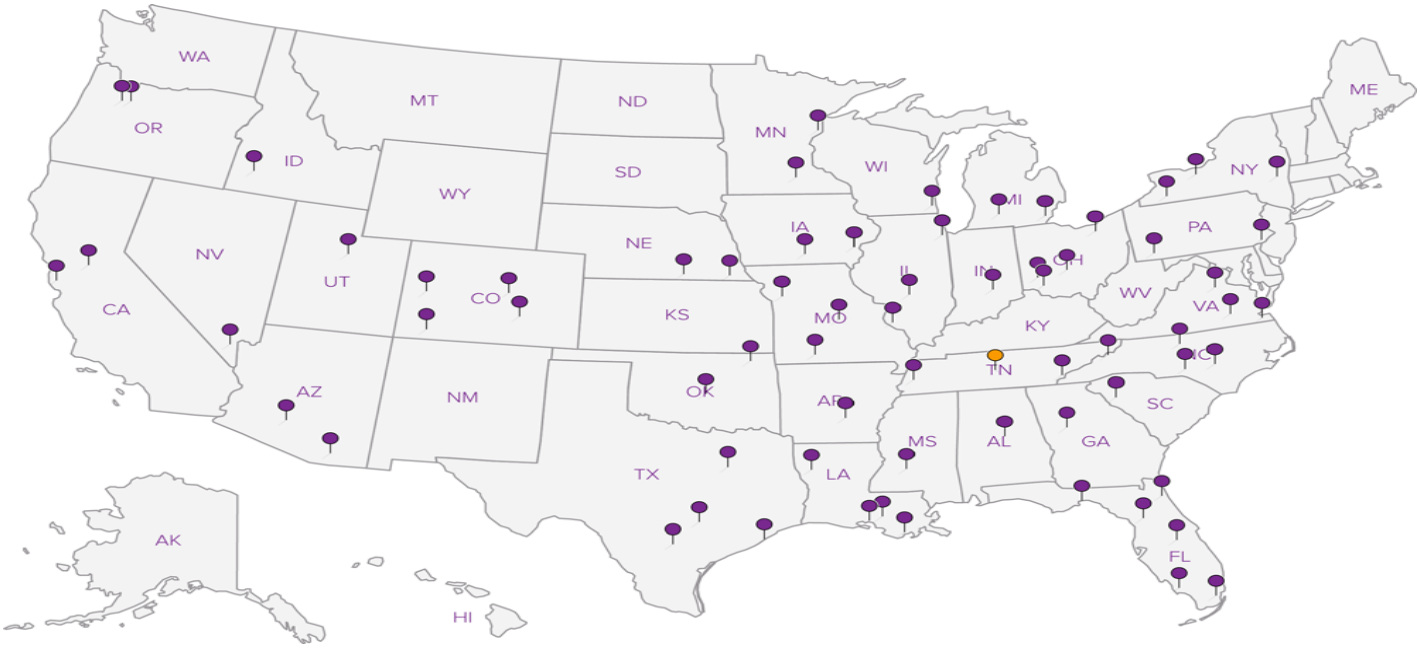
[1.] Drinking Water [2.] Underground Storage Tanks [3.] Aquatic Toxicity [4.] Chemical/Microbiological [5.] Mold [n/a] Accreditation not applicable

Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA	100789
Canada	1461.01	DOD	1461.01
EPA–Crypto	TN00003	USDA	S-67674

Our Locations

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



Terracon- Little Rock, AR

25809 I-30
Bryant, AR 72022

Billing Information:
Accounts Payable
25809 I-30
Bryant, AR 72022

Report to: **Merrick Rotenberry**

Email To: **mlrotenberry@terracon.com**

Project Description: **Grim Hotel - Texarkana, TX**

City/State Collected:

Phone: **501-847-9292**
Fax:

Client Project # **35107140**

Lab Project # **GENENLAR-35107140**

Collected by (print): Lea Nordorf

Site/Facility ID #

P.O. #

Collected by (signature): Lea Nordorf

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed

Email? ___No X__Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	8081 100ml Amb-NoPres	8270 100ml Amb NoPres	MRCRA8 4ozClr-NoPres	MRCRA8 500mlHDPE-HNO3	SV8081, SV8151 4ozClr-NoPres	SV8151 1L-Amb-No Pres	TPHTX 60mlAmb-HCl	TPHTX, SV8270, TS 4ozClr-NoPres	V8260 40ml/SYR/DI/MEOH	V8260 40mlAmb-HCl	Rem./Contaminant	Sample # (lab only)
B-2 (1-2')		SS		03/12/15	1145	6			X		X			X	X			-01
B-2 (16-17')		SS		03/12/15	1210	6			X		X			X	X			02
B-4 (1-2')		SS		03/12/15	1255	6			X		X			X	X			03
B-4 (8-9')		SS		03/12/15	1315	6			X		X			X	X			04
B-3 (1-2')		SS		03/12/15	~~1330~~ 3:30	6			X		X			X	X			05
B-3 (12-13')		SS		03/12/15	2:40	6			X		X			X	X			06
~~Rinsate~~		~~GW~~ SS		03/12/15	3:30	~~6~~ 7			X		X			X	X	X		07
B-1 (1-2')		SS		03/13/15	8:30	6			X		X			X	X			08
B-11 (12-13')		SS		03/13/15	9:00	6			X		X			X	X			09
B-1 (12-13')		SS		03/13/15	9:00	6			X		X			X	X			10

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

Remarks:

6272 8619 1847

pH _____ Temp _____

Flow _____ Other _____

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Lea Nordorf	03/13/15	7:00	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☑ FedEx ☐ Courier ☐ _____

Temp: 3.4 °C Bottles Received: 5&6+1TB

Date: 3/14/15 Time: 0900

Hold #

Condition: (lab use only) fa?

COC Seal Intact: ___Y ___N ___NA

pH Checked: NCF:

Chain of Custody Page ___ of ___

ESC LABORATORY SCIENCES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L753660

Table 1242

Acctnum: GENENLAR
Template: T100841
Prelogin: P502529
TSR: 134 - Mark W. Beasley
PB: 3-4-15 mw

Shipped Via: FedEX Ground

APPENDIX I

QA/QC Data Review Check List

QA/QC Data Review Checklist

Project: **Grim Hotel**
Location: **Texarkana, Texas** Date: **May 1, 2015**
Project No.: **35107140** QA Reviewer: **Merrick Rotenberry**

Precision

Precision is a measure of mutual agreement among individual measurements of the same property, usually under prescribed similar conditions, expressed in terms of Relative Percent Difference (RPD). Analytical precision will be evaluated by comparing results from laboratory duplicate samples and field duplicate samples. The RPD between the duplicates is calculated and plotted according to the following formula:

$$RPD = \left(\frac{(Spike\,1 - Spike\,2)}{(Spike\,1 + Spike\,2)/2} \right) * 100\%$$

Control limits for RPD are noted in the selected laboratory QA/QC provided in Appendix E.

Laboratory Duplicates:

Soil (within laboratory RPD limits?) - Y____ N **X**
Water (within laboratory RPD limits?) - Y____ N **X**

Field Duplicates:

Media	Analyte	Sample mg/kg	Duplicate mg/kg	RPD %
Soil	Mercury	0.02	0.02	0.00
B-1 (12-13)	Arsenic	0.934	1.13	18.99
	Barium	31.1	32.6	4.71
	Cadmium	0.5	0.5	0.00
	Chromium	8.8	9.35	6.17
	Lead	6.3	5.93	-6.53
	Selenium	2.0	1.01	-65.78
	Silver	1	1	0.00

Media	Analyte	Sample mg/l	Duplicate mg/l	RPD %
Groundwater	Mercury	0.0002	0.0002	0.00
MW-3	Arsenic	0.00154	0.000951	-47.29
	Barium	0.31	0.264	-16.03
	Chromium	0.005	0.005	0.00
	Lead	0.0583	0.0443	-27.29
	Selenium	0.02	0.02	0.00
	Di-n-butyl phthalate	0.00161	0.000366	-125.91

Comments:

Lab

According to the ESC *List of Analytes with QC Qualifiers* (Appendix F), the associated batch QC was outside the established quality control range for precision for several samples (EPA Qualifier J3). However, because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. Based on the ESC lab report, no data were rejected as a result of laboratory Q/C procedures.

Soil Duplicates

Terracon collected a soil sample duplicate from B-1 (12 to 13 feet) and the duplicate sample was identified as B-11 (12 to 13 feet). The absolute values of the RPDs ranged from 0% to 65%. Selenium exhibited the largest RPD with a detection of <2 mg/kg in the original sample and the duplicate below the MDL at an estimated value. However, the duplicate sample results generally correlated well with the original sample.

Water Duplicates

A duplicate groundwater sample was collected from MW-3 and labeled as MW-13. The absolute values of the RPDs ranged from 0% to 125%. With the exception of Di-n-butyl phthalate at an estimated (J-value) in both the original and duplicate sample, the duplicate sample results generally correlated well with the original sample.

Accuracy:

Accuracy is the degree of agreement of a measurement with an accepted reference or true value. The accuracy of the analytical data will be assessed by examining the results obtained from the analysis of laboratory matrix spike samples, matrix spike recoveries, surrogate recoveries and method required QA/QC samples. Accuracy in the field is qualitatively assessed through the use of rinsate blanks and adherence to all sample handling, preservation, and holding times The percent recovery for a spiked sample is calculated according to the following formula:

$$\%\,\text{Recovery} = \left(\frac{(\text{Spike} - \text{Sample})}{\text{Spike}} \right) * 100\%$$

Lab

Soil (within recovery limits?) - Y **X** N

Water (within recovery limits?) - Y **X** N

Field

Was a rinsate sample collected? - Y **X** N

Was the rinsate sample below detection limits? - Y N **X**

Were the holding times exceeded (Table 3 – QAPP)?

Soil - Y N **X**

Water - Y N **X**

Was the correct sampling method used (Table 3 – QAPP)?

Soil - Y **X** N

Water - Y **X** N

Was the PSAP followed in the field work? - Y **X** N

Comments:

Lab

Based on the ESC lab report, no data were rejected as a result of laboratory Q/C procedures.

Field

The rinsate/equipment blank and trip blank results give no indications of cross-contamination or compromised data quality, as no concentrations above laboratory detection limits were reported.

Representativeness:

Representativeness expresses the degree to which sample data accurately and precisely represent environmental conditions and parameter variations at a sampling location. Representativeness is the selection of analytical methods and sampling protocols and locations such that results are representative of the media being sampled and conditions being measured. Representativeness is a qualitative parameter most concerned with the proper design of the sampling program. The representativeness criterion is best satisfied by assuring that sampling locations are properly selected, and a sufficient number of investigative samples are collected. Representativeness is dependent upon the proper design of the sampling program and will be satisfied by ensuring that the field sampling plan is followed, and that proper sampling techniques are used. Representativeness in the laboratory is ensured by using the proper analytical procedures, meeting sample holding times, and analyzing and assessing field duplicate samples.

Comments:

Terracon has evaluated the representativeness of the Phase II ESA activities to document the degree to which the sample data accurately and precisely represents a characteristic of a population, parameter variations at a sampling point, or an environmental condition. Review of field methods and procedures indicated that sample collection, handling, and transportation were conducted in accordance with the QAPP and PSAP. Review of analytical results indicates that the analytical data is generally uniform and consistent between sampling points and with previous sampling and analysis activities.

Completeness:

Completeness is the amount of valid data obtained from a measurement system. Laboratory completeness is a measure of the amount of valid measurements obtained from all the measurements taken in the project. The intent of this program is to attempt to achieve a goal of 100 percent completeness. Realizing that under normal conditions this goal may not be achievable, the completeness goal for this program is 95 percent. Completeness is the ration of the number of valid sample results to the total number of samples analyzed with a specific matrix and/or analysis. Following completion of the analytical testing, the percent completeness will be calculated by the following equation:

$$\text{Completeness} = \frac{\text{Valid Measurements}}{\text{Measurements Taken}} * 100\%$$

Comments:

Laboratory analysis was completed on each of the samples collected in the field and submitted for analysis. Laboratory completeness was determined to be 100%.

Comparability:

Comparability of the data collection activities must consider field conditions as well as sampling and analytical techniques. Comparability is an expression of the confidence with which one data set can be compared to another. Comparability cannot be ensured through use of standard methods and protocols alone. In order to compare data, various important elements will be considered. During this project, three elements will be evaluated for data comparability. These three elements include the following:

- Analytical methods,
- Quality of data, and
- Sampling design.

If after the initial evaluation, data do not appear comparable, the Laboratory Quality Assurance Manager will attempt to identify other components possibly affecting comparability, including field conditions, sampling protocols, and the occurrence of true data anomalies. Comparability is dependent upon the proper design and consistent execution of the sampling program. Analytical data will be comparable when similar analytical methods are used and documented.

Comments:

To produce comparable data, the units specified for analytical results obtained during the field activities are consistent throughout this project and standardized analytical methods have been used for each parameter.

Comment on any lab or field QA/QC failures:

Certain constituents, including concentrations reported as a J-value, were detected in the duplicate or original groundwater sample, but did not correlate within the data group. The detected constituents were a small sample set and were not detected above the site screening levels.

Based on the ESC lab report, no data were rejected as a result of laboratory Q/C procedures. In addition, no data were rejected as a result of field Q/C procedures.