

**Phase II Investigation  
Yakima Mill Site  
Triangular and Plywood Plant Parcels  
Yakima, Washington**

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Prepared for

**City of Yakima**

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## **1.0 INTRODUCTION**

This report documents the results of the Phase II investigation conducted on behalf of the City of Yakima (City) at the Yakima Mill Site, located at 805 North 7<sup>th</sup> Street in Yakima, Washington (Project Site; Figure 1). The overall Project Site includes 20 parcels, comprising 19 parcels owned by LeeLynn, Inc. and Wiley Mt., Inc., and 1 parcel owned by OfficeMax Corporation (OfficeMax), totaling approximately 207 acres. The parcel currently owned by OfficeMax (parcel number 191318-41001) is approximately 38 acres in size and contains most of the former City municipal solid waste (MSW) landfill; this parcel is referred to as the Landfill Parcel. The Landfill Parcel is not addressed in this Phase II investigation report, with the exception of the triangular portion of the parcel (Triangular Parcel) located north and adjacent to the railroad tracks that run through the middle of the Project Site (see Figure 1).

The City is considering the potential acquisition of property within the Project Site to establish an area for future redevelopment. As part of their pre-acquisition due diligence, the City is conducting investigations to collect the additional data needed to effectively evaluate the environmental conditions at the property. This report documents the results of a Phase II investigation conducted at selected parcels (subject parcels), which are described below, to support the City's evaluation of the overall Project Site.

### **1.1 PROPERTY DESCRIPTION**

For the purposes of this Phase II investigation, the subject parcels include the former Plywood Plant parcel (parcel number 191318-42001), and the parcels located to the west and southwest of the former Plywood Plant (parcel numbers 191318-42401, -42404, -43539, and -42003), collectively referred to as the Plywood Plant Parcels (Figure 1). The parcels associated with the former Plywood Plant cover approximately 15.5 acres and are currently owned by LeeLynn, Inc. and Wiley Mt., Inc. The subject parcels for the Phase II investigation also include the Triangular Parcel (~3.0 acres), which is a portion of the larger Landfill Parcel (parcel number 191318-41001), and is located to the north of the former Plywood Plant parcel. As noted above, the Landfill Parcel is currently owned by OfficeMax Corporation.

The Plywood Plant Parcels are bordered to the north by a railway right-of-way that runs roughly east to west separating the Plywood Plant Parcels from the Triangular Parcel (Figure 1). The former City MSW Landfill (Landfill Parcel) is located to the east of the Plywood Plant Parcels with predominately residential areas located to the west and south. Currently, the majority of the former structures located on the Plywood Plant Parcels have been removed and only the concrete slabs and other associated foundation features remain in place, with the exception of the VAT building and portions of the former Barker structure (Figure 1).

The structures formerly located on the Triangular Parcel had been removed by the time of the Phase II investigation, and only the concrete foundations and retaining structures remained in place. Piles of concrete and wood debris associated with the former structures were located in several areas within both the Plywood Plant and Triangular Parcels at the time of the Phase II investigation.

## **1.2 BACKGROUND**

The overall focus of this Phase II investigation is to provide information regarding environmental conditions at the subject parcels that may represent liabilities to the City as a result of their purchase of the property, and that could affect the planned redevelopment project. As part of their pre-purchase environmental due diligence and concurrent with the Phase II investigation, the City is also conducting a Phase I Environmental Site Assessment (ESA) for the project to evaluate and document the history of use and current environmental conditions at the property. The Phase I ESA includes evaluation of all 20 parcels associated with the Project Site, including the subject parcels included in this Phase II investigation (i.e., the Plywood Plant Parcels and the Triangular Parcel), but excluding the remainder of the Landfill Parcel.

The approach for the Phase II investigation was developed based on the conclusions and recommendations provided in the *Background Information Acquisition and Review* draft technical memorandum prepared in May 2013 (Landau Associates 2013a). The technical memorandum evaluated and summarized available information regarding the Project Site, including the subject parcels covered by this investigation. The scope of the Phase II investigation was developed to address the data gaps identified in the draft technical memorandum and the review of available background information regarding former investigative and remedial actions at the Project Site. The findings of the Phase I ESA, which is currently in preparation, were also considered in the planning and scoping of the Phase II investigation.

## **1.3 OBJECTIVES**

The primary objectives for the Phase II investigation are as follows:

- Collect data to further evaluate and document the nature and extent of contamination within the subject parcels, based on potential areas of concern identified from the:
  - Review and evaluation of historical environmental analytical results
  - Understanding of past site operations and the potential analytes of concern associated with those operations
  - Data gaps identified during the review of available information on the subject parcels.
- Evaluate the results of the investigation with respect to potential remedial action(s) that may be necessary at the subject parcels prior to their redevelopment

- Support additional investigation activities, as needed

To satisfy these objectives, the evaluation of subsurface conditions at the Plywood Plant and Triangular Parcels was conducted through two rounds of investigation (i.e., initial and supplemental). The initial round of investigation (June 2013) included sampling and analyses of soil, soil gas, groundwater, and standing water in the areas with the highest likelihood to be impacted by historical site activities, based on knowledge of site operations, current subject property physical conditions, and the results of previous investigations completed at the site (as summarized in Section 2.0).

Based on the observed physical conditions at the subject parcels and the results of the initial round of investigation, additional soil and groundwater samples were collected during the supplemental round of investigation (August 2013) to further quantify and evaluate the environmental conditions at the subject parcels. The supplemental investigation consisted of additional soil and groundwater sampling and analysis, including the collection and analysis of groundwater samples from three new groundwater monitoring wells installed within the former Plywood Plant parcel and two new groundwater monitoring wells installed within the Triangular Parcel. Wood debris samples were also collected during the supplemental investigation to provide an initial assessment of wood debris quality and the potential viability for reuse of the material.

Although the results of this Phase II investigation provide data to evaluate and document the environmental conditions at the subject parcels, the subject parcels consist of over 18 acres of land once associated with active operations at the former Mill site. Therefore, the results of this investigation should be considered as a focused assessment of environmental conditions at the subject parcels based on the available information regarding previous operations and investigations; other areas of potential subsurface contamination may exist that have not yet been identified or evaluated. Additional investigation will likely be required to further evaluate and document the environmental conditions within the subject parcels, address regulatory requirements, and provide more detailed information to support the evaluation of remedial alternatives/costs and the planned redevelopment project.

## 2.0 PREVIOUS INVESTIGATIONS

Numerous investigations have been conducted to date to evaluate and document environmental and geotechnical conditions at the Project Site. These investigations have included responses to and evaluation of previous releases at the subject parcels. Detailed information on these various releases, the associated responses, and other environmental investigation at the Project Site is provided in the *Background Document Acquisition and Review* draft technical memorandum (Landau Associates 2013a).

Previous investigations conducted within the subject parcels are as follows:

- **1980 Sodium Hydroxide Release:** Prior to November 1980, 9,000 lbs of sodium hydroxide (used as a plywood glue catalyst and typically stored as a 50% aqueous solution) was inadvertently heated in its storage container which caused the aqueous solution to solidify. Site personnel disposed of the solidified material in a shallow excavation [ $< 3$  feet (ft) below ground surface (BGS)] approximately 600 ft east from the southeast corner of the plywood mill (Boise Cascade Corporation 1985).

After consultation with the U.S. Environmental Protection Agency (EPA) and the Washington State Department of Ecology (Ecology), Boise Cascade (the current owner) conducted an investigation of the release area consisting of excavation of five test pits to a maximum depth of 13 ft BGS, and analysis of soil for pH levels. Based on the results (acidic to moderately alkaline), Boise Cascade requested that the ranking be reclassified as “none” (Boise Cascade Corporation 1985). Ecology concurred, but noted that a site investigation would likely need to be performed (Ecology 1985). In August 1986, Ecology performed a Phase I Site Inspection and concluded that there was no need for “further CERCLA evaluations or actions at this facility” (Ecology 1987).

- **1987 Release of Sodium Hydroxide to the Evaporation Pond:** Prior to 1987, sodium hydroxide was discharged to the evaporation pond located south of the Plywood Plant. The evaporation pond discharges to the City’s publicly owned treatment works (POTW; Ecology 1987). This is possibly the release mentioned in Boise Cascade’s Spill Prevention Control and Countermeasures Plan (SPCC; Olympus Technical Services, Inc. 2000), which described a discharge of less than 800 gallons of sodium hydroxide to the POTW, approximately 10 years prior, caused by operator error at the Plywood Plant. This caused a disruption at the POTW, but no response actions were warranted or taken.
- **1989 Underground Storage Tank (UST) Removal:** In December 1989, four USTs were removed from two locations: a 20,000-gallon diesel tank and a 10,000-gallon gasoline tank were removed from one location, and two 10,000-gallon diesel tanks were removed from a separate location (PLSA 1990). The exact former locations of these USTs are not given, though Fulcrum Environmental Consulting (2012a) notes that the locations were likely within the Triangular Parcel to the north of the auto shop and east of the machine shop, near the fuel dispensing pumps. Approximately 2,000 cubic yards of petroleum contaminated soil was excavated from the UST cavities during removal of the tanks. Soil and groundwater (if present) samples collected beneath the tanks were analyzed for total petroleum hydrocarbons (TPH) in the diesel (TPH-D) and gasoline range (TPH-G) using EPA Method 8015. In addition, samples from beneath the gasoline UST were analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX) compounds. Detected concentrations were less than the laboratory reporting limits (PLSA 1990).



In addition to the focused investigations associated with individual releases and the activities noted above, four reports were prepared documenting the results of previous environmental investigations conducted at the Project Site between 1998 and 2010, including investigations within the subject parcels, as follows:

- In 1998, Landau Associates conducted a hydrogeologic study on behalf of Boise Cascade, in compliance with Boise Cascade's State Waste Discharge Permit (Landau Associates 1998).
- In 2003, a Phase I ESA report was completed by URS Corporation on behalf of Boise Cascade (URS 2003).
- In 2008, Parametrix completed a Phase II investigation report on behalf of LeeLynn, Inc. and Wiley Mt., Inc. (Parametrix 2008).
- In 2012, Fulcrum Environmental Consulting completed a *Summary of Historic Property Use and Known Environmental Impacts* on behalf of LeeLynn, Inc. and Wiley Mt., Inc (Fulcrum Environmental Consulting 2012a).

Additional investigations have been conducted, focusing primarily on evaluation of environmental conditions and concerns at the adjacent Landfill Parcel, including:

- 2009 SLR International Corp (SLR) Remedial Investigation report for the Closed City of Yakima Landfill Site prepared for the City (SLR International Corp 2009).
- 2010 SLR Additional Investigation report for the Closed City of Yakima Landfill Site prepared for the City (SLR International Corp 2010).

These latter two investigation reports document environmental conditions specific to the Landfill Parcel, located to the east of the subject parcels. Although this Phase II investigation does not include the portion of the Landfill Parcel located to the east of the former Plywood Plant, information generated during the course of these investigations did include evaluation and sampling within areas of the subject parcels, particularly within the eastern and southern portions of the former Plywood Plant parcel.

The relevant findings from the various investigations noted above were considered in developing the rationale and approach for the investigation of the subject parcels included in this Phase II investigation. Historical sampling locations evaluated to support this investigation's approach are included on Figure 2<sup>1</sup>; Tables 1 and 2 include the rationale for the sampling and analysis conducted during this investigation, based in part on the results from the previous environmental investigations. To the extent practicable, data gaps and areas of previously identified "hot spot" contamination [as discussed in more detail in the Phase II Investigation Work Plan (work plan; Landau Associates 2013b) and the *Background Information Acquisition and Review* draft technical memorandum (Landau Associates 2013a)] were further evaluated during the two rounds of investigation to support potential remedial action considerations and planning for redevelopment of the property.

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<sup>1</sup> Global Positioning System coordinates were not available for all historical environmental sample locations; many locations are considered approximate based on information provided in the source documentation.

## **3.0 FIELD INVESTIGATION**

The following section discusses implementation of the two rounds of investigation at the subject parcels, including limitations and adjustments that were made based on conditions encountered in the field. Tables 1 and 2 summarize the selected laboratory analytical parameters for each of the samples collected for analyses; results of the analyses are discussed in Section 4.0 and are tabulated by media-type in Appendix A. Table 3 includes global positioning system (GPS) information and field screening results for each boring location; Appendix B includes exploration logs and other field documentation.

### **3.1 PRE-INVESTIGATION PHYSICAL CONDITIONS**

Prior to the initial round of field investigation, Landau Associates personnel conducted a site reconnaissance to make adjustments to the proposed investigation strategy based on existing site conditions. Proposed boring and sampling locations were adjusted, as necessary. Adjustments to the original investigation strategy are summarized by parcel below; locations are shown on Figure 2.

#### **3.1.1 TRIANGULAR PARCEL**

A summary of the adjustments to the sample locations within the Triangular Parcel include the following:

- Boring location TP-B08 within the former aboveground storage tank (AST) area was moved directly north due to a remaining secondary containment concrete barrier, which precluded drilling within the former AST pad.
- Three borings were determined to be adequate to characterize the AST area, rather than the initially proposed four borings. Two borings (TP-B07 and TP-B09) were located south (hydraulically downgradient) of the containment structure and one (TP-B08) was located to the north, as noted above.
- One boring (TP-B02) was added at the southeast corner of the former Steam Cleaning shed.
- The location of the irrigation ditch/culvert based on review of available documentation was reported incorrectly. The irrigation channel was discovered trending east-west directly north of the former Steam Cleaning shed and the former Oil House (see Figure 2). In two places the channel was exposed at the surface. The course of the channel beyond where it was exposed could not be determined.

#### **3.1.2 PLYWOOD PLANT PARCELS**

A summary of the adjustments to the sample locations within the Plywood Plant Parcels includes the following:

- Boring location FPP-B08 within the footprint of the former Plywood Plant was moved south of the existing VAT structure to evaluate potential subsurface contamination from previous use of the VAT building.

- Boring FPP-B04 was added to the north of a large hydraulic lathe pit in the northeast corner of the former Plywood Plant.
- Two borings within the footprint of the former Plywood Plant were moved adjacent to an existing pit (FPP-B09 and FPP-B11).
- During the site walk, it was determined that the former evaporation pond south of the footprint of the former Plywood Plant no longer existed. Proposed sediment sampling within the pond was replaced with soil sampling within the likely footprint of the former pond (at locations FPP-B20 and FPP-B24). The former location of the pond was determined from previous investigation maps and site observations.
- Sampling locations were added where standing water was present within (and adjacent) to the footprint of the former Plywood Plant at the time the pre-investigation field reconnaissance was conducted. These locations were provisional, based on the presence of standing water when the initial investigation was to be implemented (June 2013).
- Boring locations FPP-B14 and FPP-B-15 in the southern portion of the footprint of the former Plywood Plant were adjusted slightly to facilitate drill rig access. Portions of the former Plywood Plant footprint contained raised concrete pads that limited drill rig access.
- The remaining boring locations were placed as planned, with minor adjustments during field activities based on the presence of demolition debris at the time of investigation.

### **3.2 FIELD INVESTIGATION SUMMARY**

As noted above, the field activities were conducted in two separate rounds. The initial investigation provided a broad overview of site conditions. Results from the initial investigation were used to plan a focused supplemental investigation to further evaluate and document the environmental conditions with the subject parcels.

#### **3.2.1 INITIAL INVESTIGATION**

The scope of the initial investigation was developed based on the data gaps identified during preparation of the *Background Information Acquisition and Review* draft technical memorandum (Landau Associates 2013a) and the review of available background information regarding former investigative and remedial actions at the subject parcels (Section 2.0) as well as the results of the preliminary site reconnaissance performed by Landau Associates personnel (Section 3.1).

Field activities conducted within the Triangular Parcel by Landau Associates during the initial field investigation consisted of the following:

- Subsurface soil investigations: Soil borings were completed at 11 locations within the Triangular Parcel between June 20 and June 21, 2013. Borings were advanced with direct-push methods to depths ranging from 5 ft to 20 ft BGS.
- Groundwater investigations: Groundwater samples were collected from five borings within the Triangular Parcel between June 20 and June 21, 2013 using temporary screens placed just beneath the groundwater table.

Field activities conducted within the Plywood Plant Parcels by Landau Associates during the initial field investigation consisted of the following:

- Subsurface soil investigations: Soil borings were completed at 24 locations between June 17 and June 20, 2013. Borings were advanced with direct-push methods to depths ranging from 10 ft to 25 ft BGS.
- Groundwater investigations: Groundwater samples were collected from 16 borings and 2 existing monitoring wells between June 17 and June 21, 2013. Groundwater from the borings was collected using temporary screens placed just beneath the groundwater table.
- Standing water investigations: Standing water samples were collected from three locations within the former Plywood Plant parcel on June 20, 2013.
- Shallow soil gas survey: Shallow soil gas sampling was conducted at four locations within the southeastern corner of the former Plywood Plant's foundation footprint on June 17, 2013.

### **3.2.2 SUPPLEMENTAL INVESTIGATION**

Based on the results of the initial round of investigation, including evaluation of concentrations greater than the screening levels (see Section 4.2.1) and identification of additional data gaps, a supplemental field investigation was completed at the subject parcels.

Field activities conducted within the Triangular Parcel by Landau Associates during the supplemental investigation consisted of the following:

- Subsurface investigations: Soil borings were completed at two additional locations on August 19, 2013. These borings were associated with the installation of two new monitoring wells. The borings were advanced to 20 ft BGS using a hollow-stem auger rig.
- Groundwater investigations: Groundwater samples were collected on August 22, 2013 from two new monitoring wells installed within the Triangular Parcel.

Field investigations conducted within the Plywood Plant Parcels by Landau Associates during the supplemental investigation consisted of the following:

- Subsurface investigations: Soil borings were completed at 16 additional locations, including 3 borings associated with the installation of new monitoring wells. The borings were completed between August 20 and August 23, 2013. Soil borings for the installation of the three new monitoring wells were completed using a hollow-stem auger rig; all other borings were completed using a direct-push rig to depths ranging from 15 ft to 25 ft BGS.
- Groundwater investigations: Groundwater samples were collected from seven borings and the three new monitoring wells between August 20 and August 23, 2013.
- Wood debris investigations: Wood debris samples were collected from one boring at the eastern edge of the former Plywood Plant parcel on August 21, 2013.

The following sections summarize the field activities associated with the soil, soil gas, groundwater, standing water, and wood debris sampling for both the initial and supplemental rounds of investigation. Specific information regarding field procedures and sampling methodology is presented in the project work plan (Landau Associates 2013b).

### **3.3 SOIL INVESTIGATION**

Landau Associates collected soil samples from borings within the Triangular and Plywood Plant Parcels to further evaluate and document the nature and extent of contamination, provide information to support decisions regarding the need for additional investigation, and support potential remedial action strategies for the subject parcels.

Soil borings were advanced to refusal or 20 ft BGS, depending on conditions encountered in the field. Soil cores were field screened for physical evidence of contamination (i.e., visual or olfactory cues) and through use of a photoionization detector (PID). In the absence of evidence of contamination, analytical samples were collected from the soil interval directly above the groundwater table. If visual or olfactory evidence indicated potential contamination at greater than 20 ft BGS, borings were extended to a depth beneath the potential contamination. If strong physical evidence of contamination was present, step-out borings were advanced to evaluate the lateral extent of the contamination, to the greatest extent practicable, based on access and utility locating constraints in the vicinity of the original boring.

In accordance with the work plan, soil samples were submitted for analysis to ALS Laboratory Group (ALS) in Everett, Washington. Analytical results for soil are discussed in Section 4.2.2 and presented in Appendix A, Table A-1. Exploration logs documenting conditions and observations during advancement of the borings are included in Appendix B.

The following sections provide information on the boring locations and the rationale for sample collection. Specific information regarding soil sample collection procedures is presented in the project work plan (Landau Associates 2013b).

#### **3.3.1 INITIAL INVESTIGATION**

##### **3.3.1.1 Triangular Parcel**

In June 2013, 11 direct-push borings were completed within the Triangular Parcel. Boring locations are shown on Figure 2. Boring locations were as follows:

- Two borings were completed in the vicinity of the former Steam Cleaner shed (TP-B01 and TP-B02).
- Two planned borings (TP-B03 and TP-B04) and two step-out borings (TP-B04a and TP-B04b) were completed in the vicinity of the former Oil House. A soil sample was not collected from TP-B04a for laboratory analysis.
- Two borings were completed in the central portion of the Triangular Parcel (TP-B05 and TP-B06). A soil sample was not collected from TP-B05 for laboratory analysis because of the presence of wood debris, as discussed below.
- Three borings (TP-B07, TP-B08, and TP-B09) were completed in the vicinity of the former AST area.

Soil samples for laboratory analysis were collected from the interval above the groundwater table at locations where no visual or olfactory cues indicated potential contamination within the boring (TP-B01, TP-B02, TP-B03, TP-B04b, and TP-B06). At one location (TP-B05), wood debris material extended from just below the ground surface to below the groundwater table (15 ft BGS), and no sample was collected. At the remaining locations, samples were collected where PID readings were elevated, or where there were visual or olfactory indications of potential contamination.

### **3.3.1.2 Plywood Plant Parcels**

In June 2013, soil samples were collected from 24 direct-push borings within the Plywood Plant Parcels. Boring locations are shown on Figure 2, and were as follows:

- Three borings were completed within, and adjacent to, the former Oil Room and Maintenance Shop within the former Plywood Plant footprint (FPP-B01, FPP-B02, and FPP-B03).
- Five borings were completed within the vicinity of the Lathe Hydraulic Room pit, located on the northeast corner of the former Plywood Plant footprint (FPP-B04, FPP-B05, FPP-B06, FPP-B17, and FPP-B19).
- Two borings were completed hydraulically downgradient of the former AST area (FPP-B07 and FPP-B18), northeast of the former Plywood Plant footprint.
- One boring was completed south of the VAT building located east of the former Plywood Plant footprint (FPP-B08).
- Eight borings were completed within the central and southern portions of the former Plywood Plant footprint (FPP-B09 through FPP-B16).
- Two borings were completed within the area of the former Evaporation Pond, south of the former Plywood Plant footprint (FPP-B20 and FPP-B24).
- Three borings were completed within the three small parcels to the west/southwest of the former Plywood Plant parcel (FPP-B21, FPP-B22, and FPP-B23).

Soil samples for laboratory analysis were collected from the interval directly above the water table at locations where no visual or olfactory cues indicated potential contamination within the boring (FPP-B03, FPP-B06, FPP-B08, FPP-B12, FPP-B13, FPP-B15, FPP-B16, FPP-B21, and FPP-B23). At the other locations, samples were collected where PID readings were elevated, or where there were visual or olfactory indications of potential contamination.

## **3.3.2 SUPPLEMENTAL INVESTIGATION**

### **3.3.2.1 Triangular Parcel**

In August 2013, two additional borings for the installation of two new monitoring wells were completed within the Triangular Parcel. Soil borings were advanced using a hollow-stem auger rig. Boring locations are shown on Figure 2, and were as follows:

- One boring was completed hydraulically downgradient of the former Steam Cleaner Shed and the former Oil House and Service Pit (TP-MW-1).
- One boring was completed hydraulically downgradient of the former AST area (TP-MW-2).

No visual or olfactory cues indicated potential contamination within the two borings during advancement. Soil samples for laboratory analysis were collected from the interval above the groundwater table. Samples were collected at each additional interval and archived at the laboratory for possible future analysis.

In accordance with the work plan, soil samples were submitted for analysis to ALS in Everett, Washington. Table 2 summarizes the selected laboratory analytical parameters for each of the soil samples; analytical results for soil are discussed in Section 4.2.2 and presented in Appendix A, Table A-1.

### **3.3.2.2 Plywood Plant Parcels**

In August 2013, 13 additional direct-push borings and 3 hollow-stem auger borings for the installation of 3 new monitoring wells were completed within the Plywood Plant Parcels. Boring locations are shown on Figure 2, and were as follows:

- Five borings were completed in the vicinity of the Lathe Hydraulic Room pit, located on the northeast corner of the former Plywood Plant footprint (FPP-B25, FPP-B26, FPP-B27, FPP-B34 and FPP-MW-1). These locations were chosen to further evaluate contamination identified during the initial investigation.
- One boring was completed to the northeast of the VAT structure (FPP-B28).
- Three planned borings (FPP-B29, FPP-B30, and FPP-B31) and three additional step-out borings (FPP-B29a, FPP-B29b, and FPP-B29c) were completed within the Barker area.
- Two borings were completed in the southwestern corner of the former Plywood Plant footprint where no data had previously been collected (FPP-B32 and FPP-B33).
- One boring was completed hydraulically downgradient from the VAT structure and from the Lathe Hydraulic Room pit (FPP-MW-2).
- One boring was completed south of the former Plywood Plant footprint in the vicinity of the former Evaporation Pond (FPP-MW-3).

Soil samples for laboratory analysis were collected from the interval directly above the groundwater table at locations where no visual or olfactory cues indicated potential contamination within the boring (FPP-B25, FPP-B26, FPP-B27, FPP-B30, FPP-B32, FPP-B33, FPP-B34). At the other locations, soil samples were collected from the interval where PID readings were elevated, or where there were visual or olfactory indications of potential contamination. Analytical results for soil are discussed in Section 4.2.2 and presented in Appendix A, Table A-1. Additional samples, archived for possible future analysis, were collected from the top 1 ft of each 5 ft probe interval, starting at 5 ft BGS (e.g., intervals

5 ft to 6 ft, 10 ft to 11 ft, 15 ft to 16 ft), and the bottom 1 ft of the last probe interval (e.g., interval 19 ft to 20 ft).

### **3.4 SOIL GAS INVESTIGATION**

During the initial investigation, four shallow soil gas measurements were completed in the southeast corner of the former Plywood Plant's foundation. Locations were chosen to document current soil gas quality and evaluate if previously measured methane concentrations at the southern extent of the former Plywood Plant parcel extended beneath the former Plywood Plant footprint. Soil gas samples were collected from beneath the foundation slab using a direct-push drilling rig at locations FPP-G01, FPP-G02, FPP-G03, and FPP-G04 (Figure 2).

In accordance with the work plan, soil gas concentrations of methane, oxygen, carbon monoxide, carbon dioxide, and hydrogen sulfide were measured using a CES/Landtec GEM-2000 Plus multi-gas meter. Concentrations are discussed in Section 4.2.3 and presented in Appendix A, Table A-2. Specific information regarding field procedures and sampling methodology is presented in the project work plan (Landau Associates 2013b).

### **3.5 GROUNDWATER INVESTIGATION**

Landau Associates collected groundwater samples from the Triangular Parcel and the Plywood Plant Parcels to further evaluate and document current groundwater conditions, provide information to support decisions regarding the need for additional investigation, as warranted, and support consideration of potential remedial action options for the subject parcels.

Two rounds of groundwater sampling were conducted. During the initial round of field investigation, groundwater samples were collected from temporary well screens during soil boring advancement and from two existing groundwater monitoring wells (i.e., MW-9A, MW-12). During the supplemental investigation, groundwater samples were collected from temporary well screens during soil boring advancement and from five new groundwater monitoring wells installed as part of the supplemental investigation.

In accordance with the work plan, groundwater samples were submitted for analysis to ALS in Everett, Washington. Tables 1 and 2 summarize the selected laboratory analytical parameters for each of the groundwater samples. Analytical results for the groundwater samples are discussed in Section 4.2.4 and presented in Appendix A, Table A-3.

The following sections summarize information on the groundwater sample locations and the rationale for sample collection. Specific information regarding field procedures and sampling methodology is presented in the project work plan (Landau Associates 2013b).



### **3.5.1 INITIAL INVESTIGATION**

#### **3.5.1.1 Triangular Parcel**

In June 2013, five groundwater samples were collected from temporary screens during boring advancement within the Triangular Parcel. Locations were chosen to provide for spatial coverage to assess groundwater conditions and potential impacts from historical operations within the parcel. Groundwater sample locations are shown on Figure 2.

Sample locations were as follows:

- Two samples were collected from borings within the vicinity of the former Service Pit, Oil House, and Fuel Dispensing areas (TP-01 and TP-04b).
- One sample was collected from the central portion of the Triangular Parcel (TP-B06).
- Two samples were collected from borings hydraulically downgradient of the former AST area (TP-B08 and TP-B09).

#### **3.5.1.2 Plywood Plant Parcels**

In June 2013, 18 groundwater samples were collected from within the Plywood Plant Parcels. Sixteen of these samples were grab samples collected from temporary screens during boring advancement within the Plywood Plant Parcels. Two samples were also collected from existing monitoring wells on the property (i.e., MW-9A and MW-12). Locations were chosen to provide spatial coverage and to assess groundwater conditions and potential impacts from historical operations within the Plywood Plant Parcels. Groundwater sample locations are shown on Figure 2.

Sample locations were as follows:

- Three samples were collected from borings completed within, and adjacent to, the former Oil Room and Maintenance Shop at the northwestern corner of the former Plywood Plant footprint (FPP-B01, FPP-B02, and FPP-B03).
- Four samples were collected from borings completed within the vicinity of the Lathe Hydraulic Room pit, located on the northeast corner of the former Plywood Plant footprint (FPP-B04, FPP-B05, FPP-B17, and FPP-B19).
- One sample was collected from a boring completed hydraulically downgradient of the former AST area (FPP-B07), northeast of the former Plywood Plant footprint.
- One sample was collected from a boring completed south of the VAT Building located to the east of the former Plywood Plant footprint (FPP-B08).
- Five samples were collected from borings completed within the central and southern portions of the former Plywood Plant footprint (FPP-B09, FPP-B11 through FPP-B13, and FPP-B15).
- Two samples were collected from borings completed within the area of the former Evaporation Pond, south of the former Plywood Plant footprint (FPP-B20 and FPP-B24).

- One sample was collected from existing monitoring well MW-9A located northwest of the former Plywood Plant footprint.
- One sample was collected from existing monitoring well MW-12 located between the former Plywood Plant footprint and the Barker, and south of the VAT Building.

### **3.5.2 SUPPLEMENTAL INVESTIGATION**

#### **3.5.2.1 Triangular Parcel**

In August 2013, two groundwater samples were collected from within the Triangular Parcel. These samples were collected from new monitoring wells (TP-MW-1 and TP-MW-2) installed within the Triangular Parcel as part of the supplemental investigation. Soil borings for the new monitoring wells were drilled using a hollow-stem auger rig. The soil borings were drilled to 20 ft BGS, below the groundwater table at the time of drilling (~14 ft BGS), and below the expected fluctuation of the groundwater table throughout the year. Wells were completed with a stick-up monument and protected with three bollards.

Groundwater sample locations were chosen to assess conditions hydraulically downgradient of former operations areas within the Triangular Parcel. Sample locations are shown on Figure 2. Exploration logs and as-built diagrams for the new monitoring wells are included in Appendix B.

#### **3.5.2.2 Plywood Plant Parcels**

In August 2013, 10 groundwater samples were collected from within the Plywood Plant Parcels. Seven of these samples were groundwater grab samples collected from temporary screens during boring advancement within the Plywood Plant Parcels (FPP-B25 through FPP-B28, FPP-B29b, FPP-B31, and FPP-B33). Three of these samples were collected from new monitoring wells installed within the Plywood Plant Parcels (FPP-MW-1, FPP-MW-2, and FPP-MW-3). Soil borings for the new monitoring wells were drilled using a hollow-stem auger rig. The soil borings were drilled to 20 ft BGS, below the groundwater table at the time of drilling (i.e., 9.5 ft to 13.5 ft BGS), and below the expected fluctuation of the groundwater table throughout the year. Wells were completed with a stick-up monument and protected with three bollards.

Groundwater sample locations were chosen to further evaluate groundwater conditions around the former Hydraulic Lathe pit, the southwestern margin of the former Plywood Plant footprint, the Barker area, and south of the former Plywood Plant footprint in the vicinity of the former Evaporation Pond<sup>2</sup>.

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<sup>2</sup> Newly installed well FPP-MW-3 was installed during the supplemental investigation, in part, to replace monitoring well MW-13 which was observed to be damaged during the pre-investigation site reconnaissance.

Sample locations are shown on Figure 2. Exploration logs and as-built diagrams for the new monitoring wells are included in Appendix B.

### **3.6 STANDING WATER INVESTIGATION**

During the initial investigation, three standing water samples were collected within the northeast corner of the former Plywood Plant parcel (locations FPP-SW-01, -02, and -03). The samples were collected from standing water at the bottom of the recently excavated hydraulic lathe pit, and from two areas of standing water within and to the south of the VAT building. Two additional locations, identified during the pre-investigation site reconnaissance, were dry at the time of the initial investigation and samples could not be collected. Sample locations are shown on Figure 2.

In accordance with the work plan, the standing water samples were submitted for analysis to ALS in Everett, Washington. Table 1 summarizes the selected laboratory analytical parameters for each of the standing water samples. Analytical results for the standing water samples are discussed in Section 4.2.5 and presented in Appendix A, Table A-4. Specific information regarding field procedures and sampling methodology is presented in the project work plan (Landau Associates 2013b).

### **3.7 WOOD DEBRIS INVESTIGATION**

During the supplemental investigation, two wood debris samples were collected from one boring (Wood-1) located near the eastern boundary of the former Plywood Plant parcel. This boring was extended to 20 ft BGS. Samples were collected to provide an initial assessment of wood debris quality and the potential viability for reuse of the material. Samples were composited from two intervals, 1 ft to 6 ft and 6 ft to 11 ft BGS.

The wood debris samples were shipped to the ALS Group USA in Kelso, Washington for analysis by the Toxicity Characterization Leaching Procedure (TCLP) for metals and the high heat value evaluation using ASTM International (ASTM) Standard D2015. Analytical results for the wood debris samples are discussed in Section 4.2.6 and presented in Appendix A, Table A-5. The boring location is shown on Figure 2.

## **4.0 INVESTIGATION RESULTS**

To evaluate environmental conditions at the subject parcels, the Phase II investigation included documenting the visual observations of the media encountered during drilling and sample collection, and soil from each boring was screened for volatile organic compounds (VOCs) using a PID. This information is further discussed in the sections below, and is summarized in Table 3 and included in the exploration logs in Appendix B.

The sections below also discuss the analytical results for the two rounds of investigation for the various media types analyzed. The analytical results are included in Appendix A (Tables A-1 through A-5); sample locations are provided on Figure 2. In addition, Tables 4 through 7 summarize key media-specific information for the analytical results from the initial and supplemental investigation (e.g., detection frequencies, ranges of detections, concentrations detected above the screening levels, etc.).

### **4.1 VISUAL OBSERVATIONS AND FIELD-SCREENING RESULTS**

Visual observations were documented by Landau Associates personnel during both rounds of investigation. Observations included soil lithology type, depth to groundwater, the presence of sheen on the soil or at the water table, discernible odors, and visible soil staining, as appropriate. In addition, soil samples were screened for VOCs using a PID. These observations are documented in the exploration logs provided in Appendix B and are summarized below.

#### **4.1.1 GEOLOGY AND SITE HYDROGEOLOGY**

During the initial and supplemental investigations, borings were advanced to depths that ranged from 10 ft to 25 ft BGS. The shallow subsurface at the subject parcels was generally found to consist of sandy gravels and gravelly sands (i.e., alluvial material), underlain in many places by a silty sand or sandy silt or clay. A layer of fill up to 18.5 ft thick is present overlying the alluvial material in some areas. Fill material generally consisted of silty to sandy gravels (primarily cobbles), and in some places decomposing wood debris (e.g., bark, sawdust, etc.). Table 3 provides GPS information for the boring locations and includes a summary of the conditions observed at each location during advancement. Geologic logs for the soil borings and construction details for the new monitoring wells are presented in Appendix B.

Depth-to-groundwater was recorded during boring advancement and sampling of the existing and new monitoring wells for both rounds of investigation. Depth-to-groundwater within the Triangular Parcel ranged from 8 ft to 16 ft BGS during the initial round of investigation. During the supplemental investigation, groundwater was encountered at 14 ft BGS in both borings completed within the Triangular

Parcel. Depth to groundwater within the Plywood Plant Parcels ranged from 8.5 ft to 18 ft BGS during the initial round of investigation. During the supplemental investigation, groundwater ranged from 5 ft to 20.5 ft BGS within the Plywood Plant Parcels. The constructed and temporary wells were not surveyed during the Phase II investigation to establish an elevation datum for each location; therefore, groundwater elevation contours have not been prepared. However, previous investigations indicate that groundwater flow is to the east-southeast, toward the Yakima River, with a small, localized area of groundwater mounding on the western edge of the former Plywood Plant parcel that locally affects groundwater flow direction (SLR International Corp 2009).

#### **4.1.2 PRESENCE OF SHEEN, ODOR, AND/OR STAINING**

Borings were advanced to depths ranging from 10 ft to 25 ft BGS. Most borings were advanced to 20 ft BGS, unless refusal was met, or visual or olfactory evidence of potential contamination indicated the need to extend the boring to reach the lower limit of potential contamination, which based on visual and olfactory evidence was at 25 ft BGS. Visual and olfactory evidence of potential contamination is presented in Table 3. Significant visual or olfactory evidence of potential contamination was observed at the following locations:

- A slight to strong petroleum-like odor, accompanied by a sheen, was present in borings FPP-B05, FP-B06, FPP-B10, TP-B04, TP-B04a, FPP-B28, FPP-B29a, FPP-B29b, and FPP-B29c.
- A strong burnt odor was present in one boring (FPP-B29a); however, no evidence of the source of the odor was identified during drilling.

Slight petroleum-like odors were present in additional borings, but were not accompanied by sheen. Observations are presented in Table 3 and are documented in the exploration logs provided in Appendix B.

#### **4.1.3 FIELD SCREENING RESULTS**

Soil from each boring was screened for VOCs during drilling and sample collection using a PID. Headspace analysis was conducted by placing a representative portion of the soil in a sealable plastic bag, allowing the soil to vaporize inside the sealed container for 5 minutes, then inserting the PID tip into the bag to measure total VOCs. PID readings were recorded and are documented on the exploration logs provided in Appendix B. No PID readings were above 9.0 parts per million (ppm).

## **4.2 ANALYTICAL RESULTS**

Samples collected during the Phase II investigation were submitted to ALS in Everett, Washington for analysis (wood debris samples were analyzed by ALS Group USA in Kelso,

Washington). The sample-specific analyses for the Phase II investigation are included in Tables 1 and 2 for the initial and supplemental investigations, respectively. Tables 4 through 7 provide a summary of media-specific results, including detection frequencies based on the laboratory reporting limits (RLs). The analytical results for the samples analyzed from both rounds of investigation are provided in Appendix A, Tables A-1 through A-5; laboratory analytical reports are provided on DVD in Appendix C. The laboratory analytical data were validated for quality assurance/quality control purposes and were determined to be acceptable and relevant for the evaluation conducted for this Phase II investigation. Qualifiers, as appropriate, were added to the data as indicated in the comprehensive data tables.

The sections below provide information on the basis and rationale for the screening levels identified to evaluate the sample analytical results for the samples collected and analyzed during the Phase II investigation, and present media-specific discussions of the analytical results.

#### **4.2.1 SCREENING LEVELS**

To provide context for evaluation of the analytical results, the analyte concentrations detected in the soil and groundwater samples were compared to screening levels based on available regulatory criteria. The MTCA Method A cleanup levels for unrestricted land uses are used for screening purposes and data evaluation for the constituents detected in soil because they are relevant for the evaluation of the nature and extent of soil contamination at the property, and for the assessment of the need for and potential scope of remedial actions that may be warranted prior to redevelopment.

Based on the ongoing discussions with Ecology regarding the adjacent Landfill Parcel, the screening levels for the contaminants that have been previously detected in groundwater near the Yakima River downgradient of the Yakima Mill Site [i.e., dissolved metals (arsenic<sup>3</sup>, sodium, manganese, iron) and pH] are the lower of the criteria protective of surface water or protective of groundwater as drinking water. For other potential groundwater contaminants, the screening levels are the MTCA Method A or B criteria protective of groundwater as drinking water, as available.

Some constituents analyzed for during this investigation do not have associated MTCA Method A or B cleanup levels; therefore, as appropriate, other screening criteria have been identified in the sections below for those constituents. In addition, screening levels were not established for the standing water, soil gas, and wood debris sample results.

The analytical results for the soil, groundwater, standing water, soil vapor, and wood debris samples are discussed in Sections 4.2.2 through 4.2.6. Screening levels identified for the various media

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<sup>3</sup> The screening criterion for dissolved arsenic is adjusted to the practical quantification limit (0.15 µg/L).

analyzed are included in Tables 4 through 7 and in the summary tables in Appendix A (Tables A-1 through A-5), as appropriate.

#### **4.2.2 SOIL ANALYTICAL RESULTS**

Sixty-five soil samples were collected and submitted for various analyses during completion of the initial and supplemental rounds of this Phase II investigation. Tables 1 and 2 present the analytical program on a sample-by-sample basis for the initial and supplemental investigations, respectively; sample locations are presented on Figure 2. The following section provides an overview of the soil analytical results and evaluation of the data with respect to the applicable screening levels, as appropriate.

The frequency with which soil samples were analyzed for specific analytes of concern was determined based on the following:

- Conditions observed in the field (e.g., olfactory, visual observations, etc.)
- Analytical results for samples collected during previous investigations (see Figure 2)
- Potential constituents of concern associated with past industrial operations that were once conducted in the vicinity of the sample location.

In some instances, more than one soil sample was collected for laboratory analysis at a single location (i.e., samples from two different depth intervals at the same boring location); Tables 1, 2, 4, and 5, in addition to Table A-1 in Appendix A, provide information on the boring locations where more than one sample was collected for laboratory analysis.

##### **4.2.2.1 Triangular Parcel Soil Analytical Results**

Fourteen soil samples were collected from 11 locations within the Triangular Parcel during the initial and supplemental rounds of the Phase II investigation. An overview of the soil analytical results for both rounds of investigation is included in the following sections.

##### ***Initial Investigation***

Twelve soil samples were collected for laboratory analysis during the initial investigation within the Triangular Parcel. The soil samples were analyzed as follows:

- 12 samples were analyzed for total metals (including arsenic, cadmium, chromium, iron, lead, manganese, and mercury)
- 3 samples were analyzed for hexavalent chromium
- 12 samples were analyzed for TPH-D and TPH-O
- 6 samples were analyzed for TPH in the gasoline (TPH-G) range
- 8 samples were analyzed for VOCs

- 7 samples were analyzed for semivolatile organic compounds (SVOCs)
- 7 samples were analyzed for polycyclic aromatic hydrocarbons (PAHs), using analytical methods to achieve a 0.01 milligram per kilogram (mg/kg) RL
- 4 samples were analyzed for polychlorinated biphenyls (PCBs), using analytical methods to achieve a 0.1 mg/kg RL
- 3 samples were analyzed for total organic carbon (TOC)
- 1 sample was analyzed for pH.

Several constituents were detected above the RLs in the soil samples collected from within the Triangular Parcel during the initial investigation; however, **none of the analytes of concern were detected at concentrations greater than the respective screening levels.** Table 4 presents the number of total detections, detection frequencies, and minimum/maximum reported concentrations for the 12 samples analyzed.

### ***Supplemental Investigation***

Although none of the analytes of concern were identified above the screening levels in the samples collected from within the Triangular Parcel during the initial investigation, only limited data is available regarding the occurrence and quality of groundwater within the Triangular Parcel. Therefore, two new groundwater monitoring wells were installed within the Triangular Parcel (i.e., TP-MW-1, TP-MW-2) to further evaluate groundwater quality and provide additional data for locations hydraulically upgradient of the former Plywood Plant parcel (groundwater results are discussed in Section 4.2.4). Two soil samples were collected for analyses from each of the borings advanced prior to construction, development, and sampling of the new monitoring wells.

The soil samples were analyzed as follows:

- 2 samples were analyzed for total metals (including arsenic, cadmium, chromium, iron, lead, manganese, and mercury)
- 2 samples were analyzed for TPH-D and TPH-O.

**None of the analytes of concern were detected at concentrations greater than the screening levels in the two soil samples analyzed as part of the supplemental investigation.** Table 4 presents the number of total detections, detection frequencies, and minimum/maximum reported concentrations for the two samples analyzed.

#### **4.2.2.2 Plywood Plant Parcels Soil Analytical Results**

Fifty-one soil samples were collected for laboratory analysis from within the Plywood Plant Parcels during the Phase II investigation. An overview of the soil analytical results for both rounds of investigation is included in the following sections.



### ***Initial Investigation***

Thirty-six soil samples were collected from 24 locations for laboratory analysis during the initial round of investigation within the former Plywood Plant Parcels. The soil samples were analyzed as follows:

- 35 samples were analyzed for total metals (including arsenic, cadmium, chromium, iron, lead, manganese, and mercury)
- 5 samples were analyzed for hexavalent chromium
- 36 samples were analyzed for TPH-D and TPH-O
- 19 samples were analyzed for TPH-G
- 19 samples were analyzed for VOCs
- 18 samples were analyzed for SVOCs
- 18 samples were analyzed for PAHs, using analytical methods to achieve a 0.01 mg/kg RL
- 13 samples were analyzed for PCBs, using analytical methods to achieve a 0.1 mg/kg RL
- 8 samples were analyzed for TOC
- 9 samples were analyzed for pH.

Several analytes were detected above the RLs in the soil samples that were collected within the Plywood Plant Parcels during the initial investigation, including one or more detections that were greater than the screening levels. Table 5 presents the number of total detections, detection frequencies, and minimum/maximum reported concentrations for the 36 samples analyzed. Only TPH-O was detected in soil at concentrations above the screening levels during the initial investigation in the Plywood Plant Parcels as follows:

- TPH-O was detected in 58% of the samples analyzed. TPH-O results exceeded the screening level for TPH-O (i.e., 2,000 mg/kg) in 8% (i.e., 3) of the samples [FPP-B04 (9,400 mg/kg), FPP-B05 (4,500 mg/kg), and FPP-B06 (2,100 mg/kg)].

The locations with TPH-O concentrations in soil greater than the screening level, including the relative exceedance factor, which is the detected concentration divided by the screening level, are presented on Figure 3. The three locations with TPH-O concentrations greater than the screening level were at the northeastern edge of the former Plywood Plant footprint, in the vicinity of the former Lathe Hydraulic Room. The depths of the samples with TPH-O exceedances ranged from between 11 and 12 ft BGS at FPP-B04 to 15 to 16 ft at locations FPP-B05 and FPP-B06. These samples were collected adjacent to the former lathe hydraulic pit (approximate depth 13.5 ft). The property owner/operator had excavated debris/fill from within the concrete pit prior to the initial round of investigation. The pit contained several feet of standing water at the time of the initial investigation; the analytical results for a sample of the water from the pit are discussed in Section 4.2.5.

### ***Supplemental Investigation***

As outlined in the work plan (Landau Associates 2013b), areas where analytes of concern were detected at concentrations greater than the screening levels during the initial investigation were further evaluated during the supplemental investigation. Therefore, the supplemental investigation focused on the area immediately adjacent to the former Hydraulic Lathe Pit and VAT building. However, due to the limited soil and groundwater data available, the supplemental investigation also included additional borings in the Barker area and along the western boundary of the former Plywood Plant footprint.

Fifteen soil samples were collected for laboratory analysis from 15 discrete locations during the supplemental investigation within the former Plywood Plant parcel. The soil samples were analyzed as follows:

- 15 samples were analyzed for total metals (including arsenic, cadmium, chromium, iron, lead, manganese, and mercury)
- 15 samples were analyzed for TPH-D and TPH-O
- 1 sample was analyzed for PCBs, using analytical methods to achieve a 0.1 mg/kg RL
- 3 samples were analyzed for TOC.

Several analytes were detected in soil samples that were collected from within the former Plywood Plant parcel during the supplemental round of investigation, including one or more with detected concentrations greater than the screening levels. Table 5 presents information on the number of total detections, detection frequencies, and minimum/maximum reported concentrations for the 15 samples analyzed. As during the initial investigation, only TPH-O was detected in soil at concentrations above the screening level during the supplemental investigation in the former Plywood Plant parcel as follows:

- TPH-O was detected in 67% of the samples analyzed. TPH-O exceeded the screening level (i.e., 2,000 mg/kg) in 13% (i.e., 2) of the samples [FPP-B28-S (6,100 mg/kg) and FPP-B29c-S (3,500 mg/kg)].

The locations where TPH-O was detected at concentrations greater than the screening levels, including the relative exceedance factors, are presented on Figure 3. The two samples with TPH-O concentrations greater than the screening level during the supplemental round were collected from locations along the northern edge of the VAT building and Barker area. The samples from the additional boring locations included in the supplemental round to further assess the TPH-O exceedances identified in the initial investigation did not have concentrations greater than the screening levels.

The depth of the soil samples collected during the supplemental investigation with TPH-O exceedances was between 15 to 16 ft BGS at locations FPP-B28-S and FPP-B29b-S. This evidence of TPH-O contamination was at similar depths to the samples with TPH-O contamination collected during the initial investigation adjacent to the former lathe hydraulic pit (approximate depth 13.5 ft).

### **4.2.3 SOIL GAS ANALYTICAL RESULTS**

Soil gas concentrations were analyzed in the field at four locations using temporary well points and a CES/Landtec GEM-2000 Plus multi-gas meter. The locations selected for soil gas evaluation were based on the previous analytical results for soil gas samples collected from existing gas probes installed across the Project Site (see Figure 2), and accessibility for sampling at the southeast corner of the former Plywood Plant footprint. The southeast corner of the former Plywood Plant footprint was selected for the soil gas sampling to further evaluate and document the extent and potential influence of the former landfill on the subject parcels.

Of the four locations sampled, only sample FPP-G01 indicated the presence of methane (31.4% by volume). Methane was not detected in the samples from the remaining three locations (i.e., FPP-G02, FPP-G03, and FPP-G04). Results of the soil gas analysis are included on Table A-2 in Appendix A.

### **4.2.4 GROUNDWATER ANALYTICAL RESULTS**

Thirty-five groundwater samples were collected and submitted for various analyses during the initial and supplemental rounds of the Phase II investigation. Tables 1 and 2 present the laboratory analysis on a sample-by-sample basis for the initial and supplemental rounds of investigation, respectively. Groundwater samples were collected predominately using temporary screens installed within the direct-push soil borings; groundwater samples were also collected from seven monitoring wells (including two existing wells and five new wells installed during the supplemental investigation).

The groundwater analytical results are presented in Appendix A, Table A-3. The groundwater sample locations for both rounds of investigation are presented on Figure 2. The following sections discuss the groundwater analytical results and evaluate the data with respect to the screening levels.

#### **4.2.4.1 Triangular Parcel Groundwater Analytical Results**

Seven groundwater samples were collected from within the Triangular Parcel during the initial and supplemental rounds of the Phase II investigation. The analytical results for both rounds of investigation are included in the following sections.

##### ***Initial Investigation***

Five groundwater samples were collected for analyses during the initial round of investigation within the Triangular Parcel through use of temporary screens placed within the direct-push borings. The groundwater samples were analyzed as follows:

- 5 samples were analyzed for dissolved metals (including arsenic, cadmium, chromium, iron, lead, manganese, mercury, and sodium)
- 1 sample was analyzed for dissolved hexavalent chromium
- 1 sample was analyzed for total hexavalent chromium
- 5 samples were analyzed for TPH-D and TPH-O
- 4 samples were analyzed for TPH-G
- 4 samples were analyzed for VOCs
- 4 samples were analyzed for VOCs using Selective Ion Monitoring (SIM) to support lower detection limits for vinyl chloride and trichloroethene (TCE)
- 4 samples were analyzed for SVOCs
- 5 samples were analyzed for pH in the field during sample collection.

Only dissolved iron and manganese were detected at concentrations greater than the screening levels in the groundwater samples collected within the Triangular Parcel during the initial round of investigation. However, the RL for arsenic (i.e., 1.0 µg/L) was greater than the respective screening level (i.e., 0.15 µg/L). Table 6 presents information on the number of total detections, detection frequencies, and minimum/maximum reported concentrations for the five samples analyzed. The analytes detected in groundwater at concentrations above the screening levels during the initial investigation in the Triangular Parcel are as follows:

- Dissolved iron was detected above the screening level in one of the five samples analyzed for metals.
- Dissolved manganese was detected above the screening level in three of the five samples analyzed for metals.
- In addition, pH was below the respective screening level range (i.e., 6.5 to 8.5) for four of the five samples.

The locations where dissolved iron and manganese were detected at concentrations above the screening levels are shown on Figure 4.

### ***Supplemental Investigation***

As noted above, two new groundwater monitoring wells were installed within the Triangular Parcel (i.e., TP-MW-1, TP-MW-2) during the supplemental investigation to further evaluate groundwater quality and provide additional data for locations hydraulically upgradient of the former Plywood Plant parcel.

The groundwater samples from these new wells were analyzed as follows:

- 2 samples were analyzed for dissolved metals (including arsenic, cadmium, chromium, iron, lead, manganese, mercury, and sodium)
- 2 samples were analyzed for TPH-D and TPH-O

- 2 samples were analyzed for VOCs
- 2 samples were analyzed for SVOCs
- 2 samples were analyzed for TOC
- 2 samples were analyzed for pH in the field during sample collection.

Dissolved arsenic, iron, manganese, and sodium were detected at concentrations greater than the screening levels. Table 6 presents information on the number of total detections, detection frequencies, and minimum/maximum reported concentrations for the two samples analyzed. The analytes detected in groundwater at concentrations above the screening levels during the supplemental investigation in the Triangular Parcel are as follows:

- Dissolved iron was detected above the screening level in one of the two samples analyzed for metals.
- Dissolved manganese was detected above the screening level in both of the samples analyzed for metals.
- Dissolved sodium was detected above the screening level in both of the samples analyzed for metals.
- In addition, pH was within the respective screening level range (i.e., 6.5 to 8.5) for the two samples.

The locations where dissolved arsenic, iron, manganese, and sodium were detected at concentrations above the screening levels are shown on Figure 4.

#### **4.2.4.2 Plywood Plant Parcels Groundwater Analytical Results**

Twenty-seven groundwater samples were collected for analyses from within the Plywood Plant Parcels during the Phase II investigation. This included collection of 22 samples from temporary wells installed in the direct-push borings and 5 samples from monitoring wells including 2 existing and 3 new wells. The groundwater analytical results for both rounds of investigation are included in the following sections.

##### ***Initial Investigation***

Eighteen groundwater samples were collected for laboratory analyses during the initial investigation within the Plywood Plant Parcels, including groundwater samples from two existing monitoring wells (MW-9A and MW-12). The groundwater samples were analyzed as follows:

- 16 samples were analyzed for dissolved metals (including arsenic, cadmium, chromium, iron, lead, manganese, mercury, and sodium)
- 3 samples were analyzed for total metals (including arsenic, cadmium, chromium, iron, lead, manganese, mercury, and sodium)
- 5 samples were analyzed for dissolved hexavalent chromium

- 5 samples were analyzed for total hexavalent chromium
- 17 samples were analyzed for TPH-D and TPH-O
- 14 samples were analyzed for TPH-G
- 14 samples were analyzed for VOCs
- 14 samples were analyzed for VOCs, using SIM to support lower detection limits for vinyl chloride and TCE
- 13 samples were analyzed for SVOCs
- 2 samples were analyzed for PAHs, using analytical methods to achieve a 0.020 µg/L RL
- 2 samples were analyzed for PCBs, using analytical methods to achieve a 0.020 µg/L RL
- 2 samples were analyzed for total dissolved solids (TDS)
- 18 samples were analyzed for pH in the field during sample collection.

TPH-D, TPH-O, arsenic, iron, manganese, and sodium were detected at concentrations greater than screening levels in the groundwater samples collected from within the Plywood Plant Parcels during the initial investigation. Table 7 presents information on the number of total detections, detection frequencies, and minimum/maximum reported concentrations for the samples analyzed. The locations where dissolved arsenic, iron, manganese, or sodium were detected at concentrations above the screening levels are shown on Figure 4. The locations where the detected concentrations of TPH in groundwater were greater than the screening levels, including the relative exceedance factors, are presented on Figure 5. The analytes detected in groundwater at concentrations above the screening levels during initial investigation in the Plywood Plant Parcels are as follows:

- Dissolved iron was detected above the screening level in 9 of the 15 samples analyzed for iron.
- Dissolved manganese was detected above the screening level in 15 of the 16 samples analyzed for manganese.
- Dissolved sodium was detected above the screening level in 11 of the 16 samples analyzed for sodium.
- TPH-O was detected in 29% of the samples analyzed; all five of the detected concentrations exceed the screening level (i.e., 500 µg/L).
- TPH-D was detected in one sample at a concentration greater than the screening level (i.e., 500 µg/L).
- In addition, pH was below the respective screening level range (i.e., 6.5 to 8.5) in 78% of the samples analyzed for pH.

Four of the five groundwater samples with concentrations that exceed the screening level for TPH-O were collected from locations at the northeastern edge of the former Plywood Plant footprint, in the vicinity of the former Lathe Hydraulic Room and the VAT building (i.e., FPP-B04, FPP-B05, FPP-B08, and FPP-B17). The one TPH-D exceedance of the screening level was in the sample from FPP-B04.

As noted above, the soil samples from locations FPP-B04 and FPP-B05 also had concentrations of TPH-O greater than the screening level. The fifth groundwater sample with a TPH-O concentration greater than the screening level was collected at FPP-B24 within the vicinity of the former Evaporation Pond.

### ***Supplemental Investigation***

Based on the results of the initial investigation, the supplemental investigation included installation and sampling of three new groundwater monitoring wells in the vicinity of the former Hydraulic Lathe Pit area, the VAT building, and the former Evaporation Pond. Monitoring well FPP-MW-3, adjacent to the former Evaporation Pond, was also installed as a replacement for MW-13 which was damaged during previous site operation and could not be accessed for this Phase II investigation. Groundwater samples were also collected from temporary wells installed in the seven additional direct-push borings advanced in the vicinity of the former Hydraulic Lathe Pit and VAT building to further investigate the extent of the TPH contamination identified during the initial round of investigation.

Ten groundwater samples were collected for analyses from the three new monitoring wells and seven direct-push boring locations. The groundwater samples were analyzed as follows:

- 10 samples were analyzed for dissolved metals (including arsenic, cadmium, chromium, iron, lead, manganese, mercury, and sodium)
- 10 samples were analyzed for TPH-D and TPH-O
- In addition to the metals, TPH-D, and TPH-O analyses, the samples from the three new monitoring wells were analyzed for TPH-G, VOCs, SVOCs, and TOC.
- 10 samples were analyzed for pH in the field during sample collection.

TPH-D, TPH-O, arsenic, iron, manganese, and sodium were detected at concentrations greater than the screening levels in groundwater samples collected from within the former Plywood Plant parcel during the supplemental investigation. Table 7 presents information on the number of total detections, detection frequencies, and minimum/maximum reported concentrations for the samples analyzed. The locations where dissolved arsenic, iron, manganese, or sodium were detected at concentrations above the screening levels are shown on Figure 4. The locations where the detected concentrations of TPH in groundwater were greater than the screening levels, including the relative exceedance factors, are presented on Figure 5. The analytes detected in groundwater at concentrations above the screening levels during the supplemental investigation are as follows:

- Dissolved iron was detected above the screening level in all 10 of the samples analyzed for iron.
- Dissolved manganese was detected above the screening level in all 10 of the samples analyzed for manganese.

- Dissolved sodium was detected above the screening level in 8 of the 10 samples analyzed for sodium.
- TPH-O was detected in 40% of the samples analyzed, including two locations with concentrations that exceed the screening level (i.e., 500 µg/L).
- TPH-D was detected in 60% of the samples analyzed, including one location with a concentration that exceeds the screening level (i.e., 500 µg/L).
- In addition, pH was below or above the respective screening level range (i.e., 6.5 to 8.5) in 50% of the samples analyzed for pH.

The two groundwater samples with TPH-O concentrations greater than the screening level were collected on the northern edge of the former Barker structure (FPP-B29b) and to the south (roughly hydraulically downgradient) of the former Hydraulic Lathe Pit (FPP-B27); the one sample with a TPH-D concentration that exceeded the screening level was collocated with sample FPP-B29b. The three highest detected dissolved arsenic concentrations were in the samples collected at FPP-B33 (southwest corner of the former Plywood Plant's footprint), from new well FPP-MW-1, and from FPP-B27 (where the TPH-O was above the groundwater screening level). The groundwater sample collected at FPP-B27 indicated the highest detected concentrations of both dissolved arsenic (35 µg/L) and TPH-O (47,000 µg/L).

The groundwater sample collected from new monitoring well FPP-MW-3, adjacent to the former Evaporation Pond, did not have a TPH-O concentration greater than the screening level. Well FPP-MW-3 is located near sample location FPP-B24, where the groundwater grab sample collected from a temporary well contained a TPH-O concentration greater than the screening level during the initial round of sampling.

#### **4.2.5 STANDING WATER ANALYTICAL RESULTS**

During completion of the pre-investigation field reconnaissance, several areas of standing water were identified within the Plywood Plant Parcels. These areas included the recently excavated hydraulic lathe pit in the northeast corner of the former Plywood Plant footprint, and water within and to the south of the VAT building. To support further evaluation of environmental conditions at the subject property, three standing water samples were collected and analyzed for pH and for petroleum hydrocarbons using the Northwest Total Petroleum Hydrocarbon (NWTPH)-hydrocarbon identification (HCID) methodology.

The analytical results for these standing water samples are as follows:

- HCID-gasoline range was not detected in any of the three samples above the RL (i.e., 130 µg/L).
- HCID-diesel range was not detected in two of the three samples above the RL (i.e., 310 µg/L); the third sample had a diesel range concentration greater than 310 µg/L.
- HCID-oil range was not detected in one of the three samples above the RL (i.e., 310 µg/L); the other two samples indicated oil-range detections greater than 310 µg/L.



- pH values ranged between 6.32 and 8.81.

Analytical results are presented in Appendix A, Table A-4.

#### **4.2.6 WOOD DEBRIS ANALYTICAL RESULTS**

During the supplemental round of investigation, two wood debris samples were collected for analyses from a location on the eastern edge of the former Plywood Plant parcel in the vicinity of GP-11 (sample location Wood-1; Figure 2). Samples were collected from the 1 to 6 ft and 6 to 11 ft depth intervals. The wood debris samples were analyzed for the following:

- 2 samples were analyzed for Resource Conservation and Recovery Act (RCRA) TCLP 8 metals (i.e., arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver)
- 2 samples were analyzed for gross calorific value of coal and coke by the adiabatic bomb calorimeter method to assess potential British thermal unit (BTU) potential.

Results of the two analyses conducted on the wood debris samples include the following:

- RCRA 8 metals were not detected above the RLs in either sample.
- BTU potential ranged from 5,360 BTU/lb in the 1 to 6 ft sample to 4,340 BTU/lb in the 6 to 11 ft sample.

Analytical results are presented in Appendix A, Table A-5. The wood debris analytical results can be utilized in the assessment of potential re-use or disposal options for the wood debris as part of planning for property redevelopment.

## 5.0 SUMMARY AND CONCLUSIONS

Landau Associates conducted the Phase II investigation to document and evaluate current/baseline environmental conditions at the subject parcels, which are included within the Project Site, to identify environmental conditions that may pose a liability to a purchaser of the parcels investigated, and for information to support planning for remedial actions that may be warranted to allow for redevelopment of the property. The investigation was conducted in two rounds [initial (June 2013) and supplemental (August 2013)] and included the collection and selected laboratory analyses of soil, soil gas, groundwater, standing water, and wood debris samples from the subject parcels.

The following section summarizes the overall results and conclusions of the Phase II investigation.

### 5.1 SUMMARY OF INVESTIGATION RESULTS

The results of the Phase II investigation, including the laboratory analytical results for soil, soil gas, groundwater, standing water, and wood debris, are summarized below by area.

#### 5.1.1 TRIANGULAR PARCEL

Results from the investigation of the Triangular Parcel include the following:

- None of the analytes of concern were identified in soil at concentrations above the screening levels, for those constituents with established screening levels, during either the initial or supplemental investigation within the Triangular Parcel.
- As shown on Figure 4, the following analytes were detected in groundwater at concentrations above the screening levels:
  - Dissolved iron was detected above the screening level in three samples.
  - Dissolved manganese was detected above the screening level in five samples.
  - Dissolved sodium was detected above the screening level in two samples.
  - Dissolved arsenic was not detected above the RL; however, the RL for arsenic (i.e., 1.0 µg/L) was greater than the screening level (i.e., 0.15 µg/L).
- pH in the groundwater samples ranged from 5.73 to 6.79, and included four samples with pH below the screening level range of 6.5 to 8.5.
- Wood debris was identified across a large portion of the Triangular Parcel, especially in the area between TB-B05, TP-B06, and TP-B07; a soil sample could not be collected for analyses from TB-B05 because the entire boring to depth comprised wood debris material.

#### 5.1.2 PLYWOOD PLANT PARCELS

Results from the investigation of the Plywood Plant Parcels include the following:

- As shown on Figure 4, dissolved arsenic, iron, manganese, and sodium were detected in groundwater at concentrations above the screening levels as follows:
  - Dissolved arsenic was detected above the RL and the screening level in 19 samples. As noted above, the RL for arsenic (i.e., 1.0 µg/L) was greater than the screening level (i.e. 0.15 µg/L).
  - Dissolved iron was detected above the screening level in 19 samples.
  - Dissolved manganese was detected above the screening level in 25 samples.
  - Dissolved sodium was detected above the screening level in 19 samples.
- Petroleum hydrocarbons (i.e., TPH-O, TPH-D) were also detected at concentrations greater than the screening levels in soil and groundwater in the north-central portion of the former Plywood Plant parcel in the following areas (Figure 5):
  - The vicinity of the former Hydraulic Lathe Pit (northeastern corner of the former Plywood Plant's foundation footprint)
  - The VAT building
  - The northern edge of the former Barker structure.
- The highest detected concentrations of dissolved arsenic (with all concentrations being greater than the screening level) were in the groundwater samples collected in the following areas (Figure 4):
  - In the vicinity of the Hydraulic Lathe Pit (FPP-B27 and FPP-MW-1)
  - In the southwest corner of the former Plywood Plant's footprint (FPP-B33).
- pH in the groundwater samples ranged from 5.73 to 9.65 , and included 18 samples with pH below the screening level range of 6.5 to 8.5.
- Soil samples with analyte concentrations greater than the screening levels were collected predominately between 15 ft and 16 ft BGS, with the exception of sample FPP-B04 which was collected between 11 ft and 12 ft BGS. These samples were collected predominately from within the zone of groundwater fluctuation.
- The groundwater sample collected from the temporary well installed in boring FPP-B24, adjacent to the former Evaporation Pond, had a TPH-O concentration greater than the screening level during the initial round of sampling; but the groundwater sample from new monitoring well FPP-MW-3 installed in the same area during the supplemental round did not have a concentration of TPH-O (or any other analytes) greater than the screening level. The detection in the initial sample was likely due to the presence of suspended solids resulting from sampling from a temporary screen versus a monitoring well with a constructed sand pack.

## 5.2 CONCLUSIONS

The results of this Phase II investigation indicate that analytes of concern are present in subsurface soil and groundwater at concentrations above the screening levels, which are based on applicable regulatory criteria. The primary drivers for potential environmental concern, based on the results of this investigation, include TPH-D and TPH-O in soil and groundwater, and dissolved metals in groundwater. Concentrations of TPH-D and TPH-O above the RL were also identified in samples collected from standing water within the former Plywood Plant parcel.

### **5.2.1 PETROLEUM HYDROCARBONS**

Petroleum hydrocarbons, specifically TPH-O and TPH-D, exceeded the soil and groundwater screening levels only within the former Plywood Plant parcels. The soil and groundwater exceedances occurred at the northeastern edge of the former Plywood Plant footprint, in the vicinity of the former Lathe Hydraulic Room, and along the northern edge of the VAT building and Barker area. There was a TPH-O concentration in a groundwater sample from a temporary well (FPP-B24) near the former evaporation pond that exceeded the screening level; however, based on a lower TPH-O concentration in an adjacent groundwater monitoring well (FPP-MW-3), it appears that the TPH-O concentration from FPP-B24 was likely due to suspended solids in the temporary well. Figure 5 presents the sample locations where TPH-O and TPH-D were detected at concentrations above the screening levels in soil and groundwater.

### **5.2.2 DISSOLVED METALS IN GROUNDWATER**

Dissolved arsenic, iron, manganese, and sodium were detected in several groundwater samples at concentrations greater than the screening levels. The highest percentage of these dissolved metals was identified in samples collected from within the former Plywood Plant parcel. Dissolved metals were detected to a lesser degree in the samples collected in the Triangular Parcel (with the exception of dissolved manganese). The screening level for dissolved arsenic, which is based on the practical quantification limit (i.e., 0.15 µg/L), was lower than the RL established for this investigation (i.e., 1.0 µg/L). Nevertheless, 62% of the samples collected from within the former Plywood Plant parcels, including samples collected from the existing well network, indicated dissolved arsenic at a concentration above the RL and greater than the screening level.

No discernible spatial pattern between dissolved arsenic, iron, manganese, and sodium concentrations is readily apparent from the results of the two rounds of investigation. Additional investigation and source identification should be considered to further evaluate the nature and extent of the dissolved arsenic, iron, manganese, and sodium in groundwater.

## 6.0 USE OF THIS REPORT

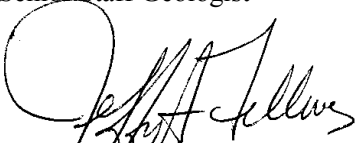
This Phase II investigation report has been prepared for the exclusive use of the City and their identified representatives for specific application to the Yakima Mill Site property in Yakima, Washington. No other party is entitled to rely on the information, conclusions, and recommendations included in this document without the express written consent of Landau Associates. Further, the reuse of information, conclusions, and recommendations provided herein for extensions of the project or for any other project, without review and authorization by Landau Associates, shall be at the user's sole risk. Landau Associates warrants that within the limitations of scope, schedule, and budget, our services have been provided in a manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing in the same locality under similar conditions as this project. We make no other warranty, either express or implied.

This document has been prepared under the supervision and direction of the following key staff.

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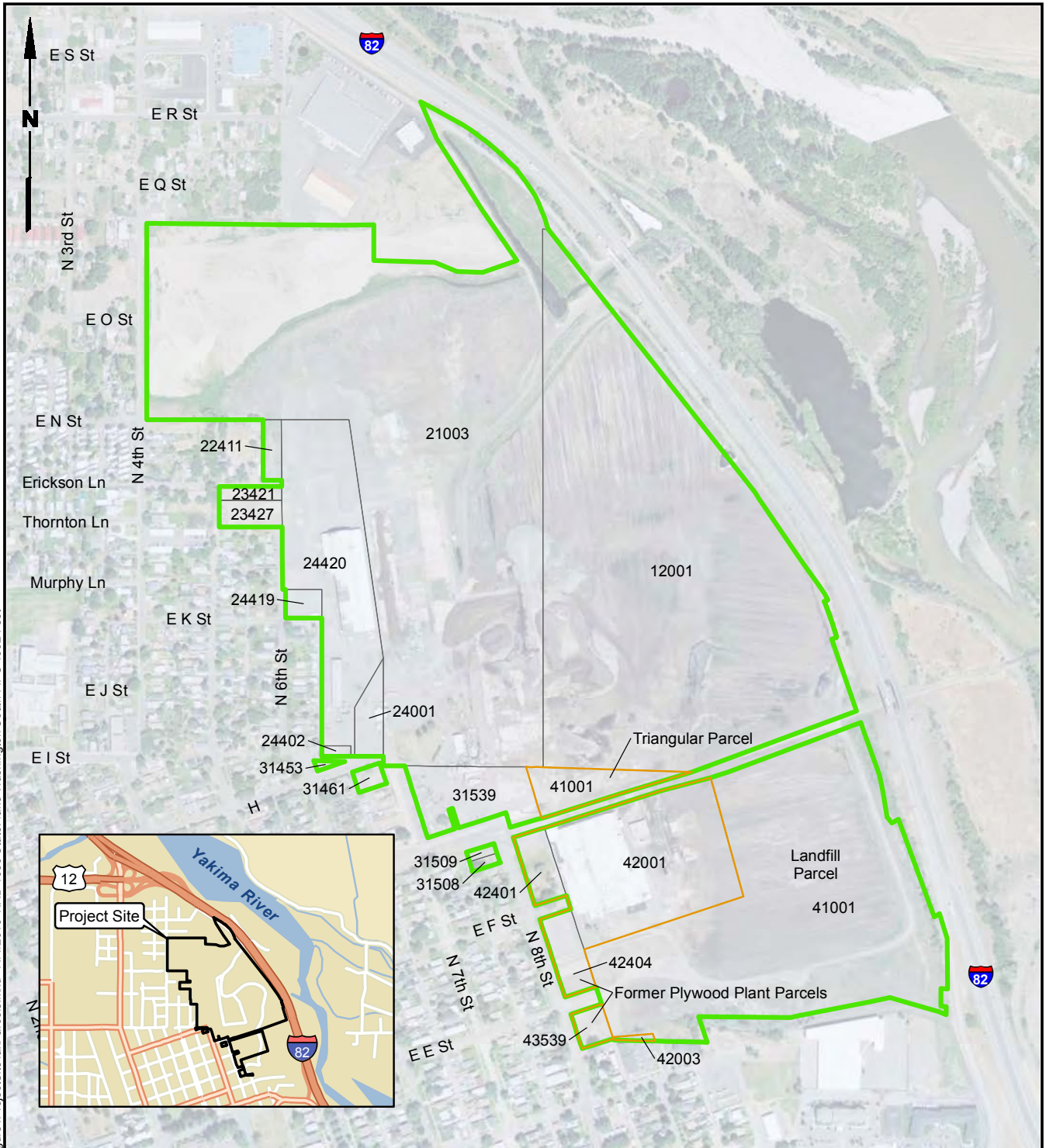
Timothy L. Syverson, L.G.  
Senior Associate Geologist

TLS/JAF/SDS/kes

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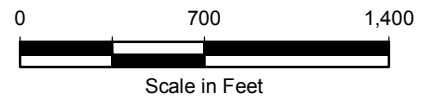


**Legend**

- Project Site
- Phase II Investigation Areas
- Tax Parcels and Parcel Site Number (191318-XXXXX)

**Note**

1. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.



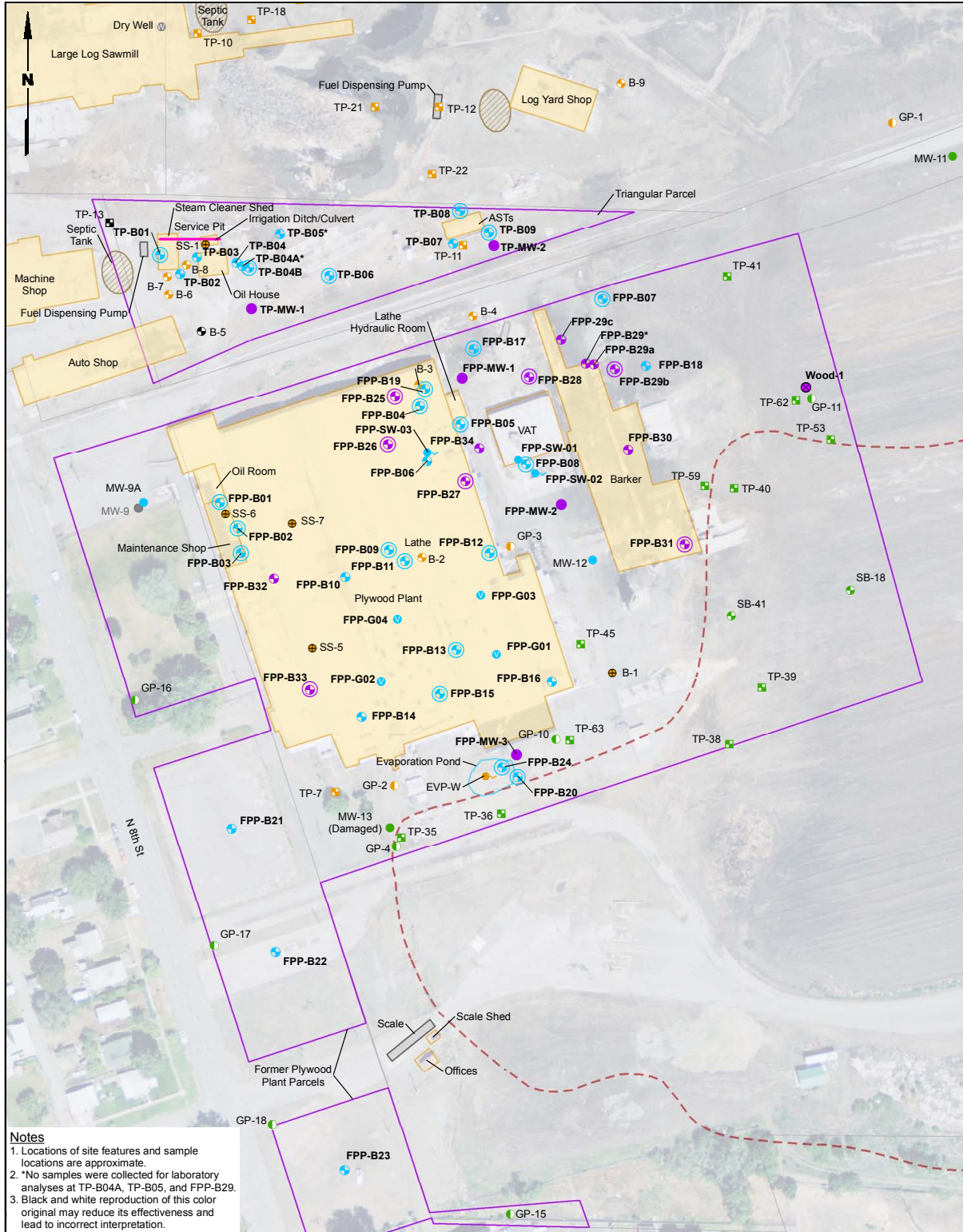
Data Source: Yakima County GIS, ESRI World Imagery



Yakima Mill Site  
Yakima, Washington

**Project Site and Tax Parcels**

Figure  
**1**



**Notes**  
 1. Locations of site features and sample locations are approximate.  
 2. \*No samples were collected for laboratory analyses at TP-B04A, TP-B05, and FPP-B29.  
 3. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.

**Legend**

**Initial Investigation (June 2013)**

- Soil Sample
- Soil and Groundwater Sample
- Groundwater Sample (Existing Well)
- Surface Water Sample
- Soil Gas Sample

**Supplemental Investigation (August 2013)**

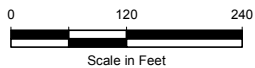
- Soil Sample
- Soil and Groundwater Sample
- Soil and Groundwater Sample (New 2013 Monitoring Well)
- Wood Waste Sample

- ▭ Municipal Landfill Extent
- ▭ Building
- ▭ Former Building
- ▭ Former Pond
- ▭ Septic Tank
- ▭ Other Features
- ▭ Phase II Investigation Areas
- ▭ Tax Parcels
- ▭ Irrigation Ditch/Culvert

**Historical Sample Locations**

- Gas Probe - Parametrix 2008
- Gas Probe - SLR 2009
- Monitoring Well - SLR 2009
- Monitoring Well - URS
- Soil Boring - Parametrix 2008
- Soil Boring - SLR 2009
- Soil Boring - URS
- Soil Sample - Parametrix 2008
- Surface Water Sample - Parametrix 2008
- Test Pit - Parametrix 2008
- Test Pit - SLR 2009
- Test Pit - URS
- Water Well - URS
- Dry Well - URS

Data Sources: Yakima County GIS; ESRI World Imagery; SLR; URS; Parametrix 2008; Boise Cascade 1985.

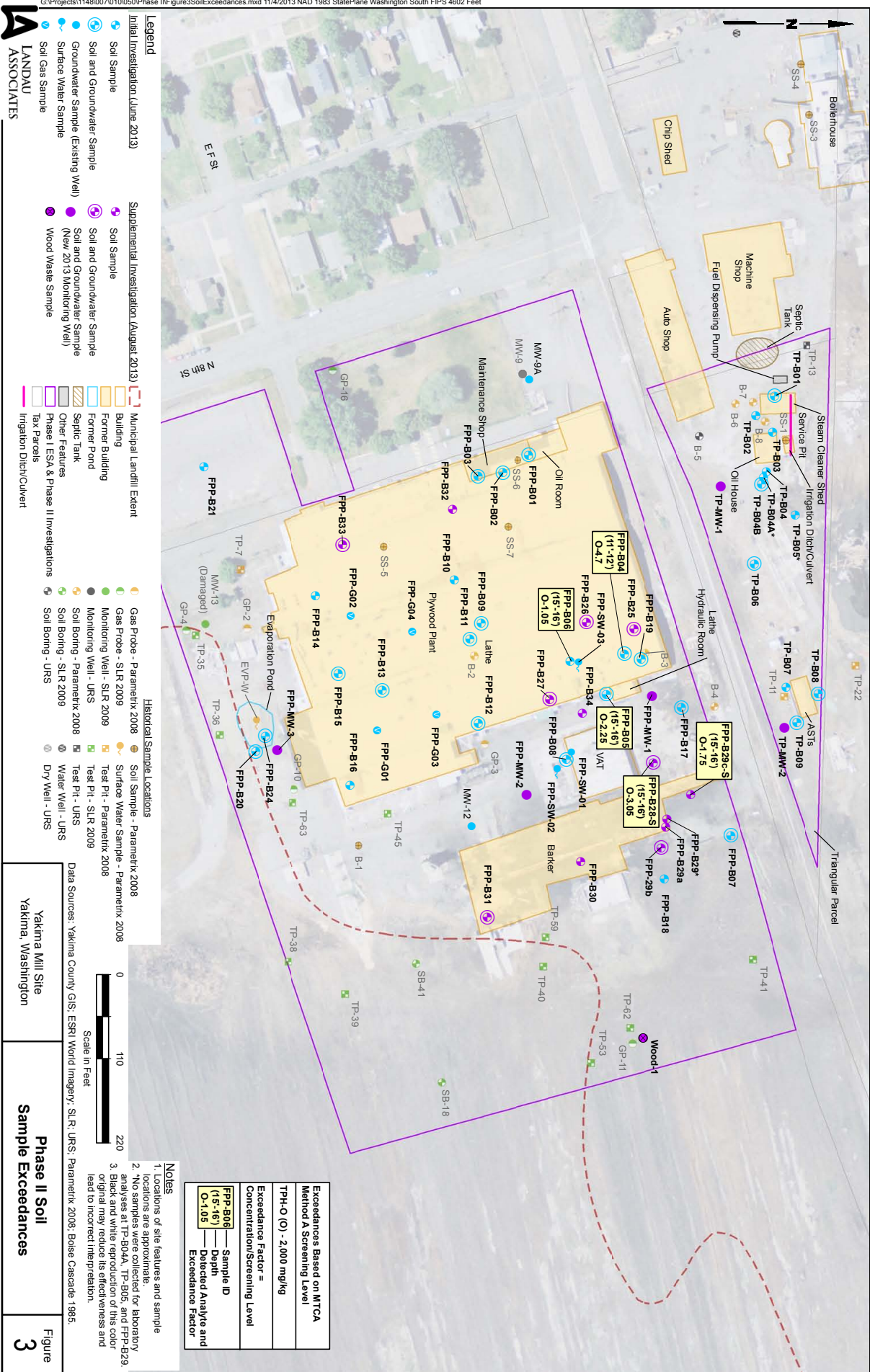


Yakima Mill Site  
 Yakima, Washington

Sample Locations

Figure  
 2





- Legend**
- Initial Investigation (June 2013)
    - Soil Sample
    - Soil and Groundwater Sample
    - Groundwater Sample (Existing Well)
    - Surface Water Sample
    - Soil Gas Sample
  - Supplemental Investigation (August 2013)
    - Soil Sample
    - Soil and Groundwater Sample
    - Soil and Groundwater Sample (New 2013 Monitoring Well)
    - Wood Waste Sample
  - Municipal Landfill Extent
    - Building
    - Former Building
    - Former Pond
    - Septic Tank
    - Other Features
    - Phase I ESA & Phase II Investigations
    - Tax Parcels
    - Irrigation Ditch/Culvert
  - Historical Sample Locations
    - Gas Probe - Parametrix 2008
    - Soil Sample - Parametrix 2008
    - Gas Probe - SLR 2009
    - Surface Water Sample - Parametrix 2008
    - Monitoring Well - SLR 2009
    - Test Pit - Parametrix 2008
    - Monitoring Well - URS
    - Test Pit - SLR 2009
    - Soil Boring - Parametrix 2008
    - Test Pit - URS
    - Soil Boring - SLR 2009
    - Water Well - URS
    - Dry Well - URS

Data Sources: Yakima County GIS; ESRI World Imagery; SLR; URS; Parametrix, 2008; Boise Cascade 1985.

Scale in Feet

0 110 220

**Notes**

- Locations of site features and sample locations are approximate.
- Two samples were sent to laboratory for analysis: TP-B04, TP-B05, and FPP-B29.
- Blind seal while reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.

Exceedances Based on MITCA Method A Screening Level
TPH-O (O) - 2,000 mg/kg
Exceedance Factor =
FPP-B08 — Sample ID
(15-.16) — Depth
O-1.05 — Detected Analyte and Exceedance Factor

**Phase II Soil Sample Exceedances**



- Legend**
- Dissolved Arsenic Exceedance
  - Dissolved Iron Exceedance
  - Dissolved Manganese Exceedance
  - Dissolved Sodium Exceedance
  - Soil Sample
  - Soil and Groundwater Sample
  - Groundwater Sample (Existing Well)
  - Surface Water Sample
  - Soil Gas Sample

- Soil Sample
- Soil and Groundwater Sample
- New 2013 Groundwater Monitoring Well
- Wood Waste Sample

- ▭ Municipal Landfill Extent
- ▭ Building
- ▭ Former Building
- ▭ Former Pond
- ▭ Septic Tank
- ▭ Other Features
- ▭ Phase I ESA & Phase II Investigations
- ▭ Tax Parcels
- ▭ Irrigation Ditch/Culvert

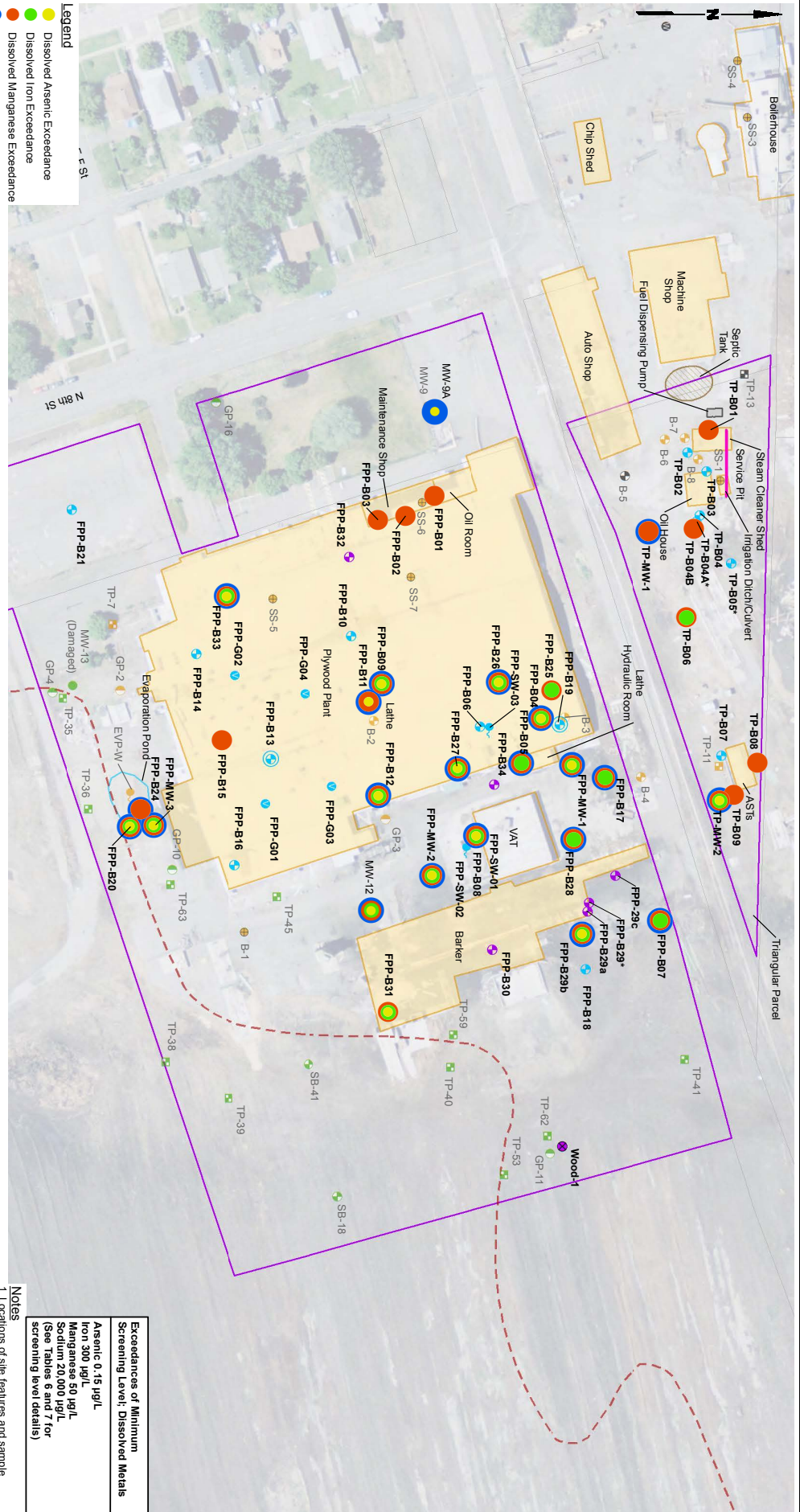
- Historical Sample Locations**
- Gas Probe - Parametrix 2008
  - Surface Water Sample - SLR 2009
  - Monitoring Well - SLR 2009
  - Monitoring Well - URS
  - Soil Boring - Parametrix 2008
  - Soil Boring - SLR 2009
  - Water Well - URS
  - Dry Well - URS

- Data Sources:** Yakima County GIS; ESRI World Imagery; SLR; URS; Parametrix 2008; Boise Cascade 1985.

Yakima Mill Site  
Yakima, Washington

**Phase II Groundwater Samples with Dissolved Arsenic, Iron, Manganese, or Sodium Concentrations Above the Screening Levels**

Figure 4

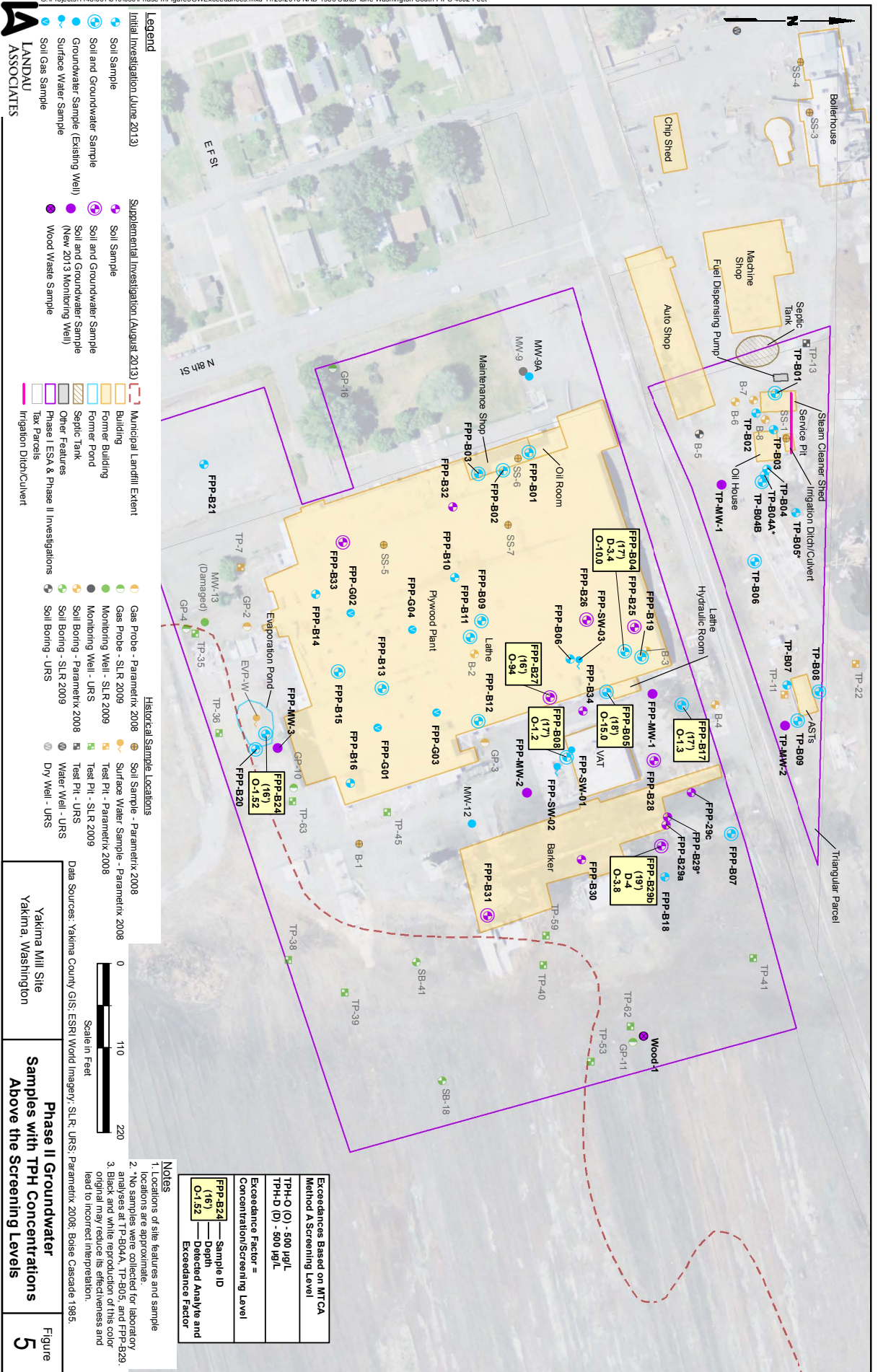


**Notes**

1. Locations of site features and sample locations are approximate.
2. No samples were collected for laboratory analyses at TP-B04A, TP-B05, and FPP-B29.
3. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.

Exceedances of Minimum Screening Level, Dissolved Metals
Arsenic 0.45 µg/L
Iron 300 µg/L
Manganese 50 µg/L
Sodium 20,000 µg/L

(See Tables 6 and 7 for screening level details)



Exceedances Based on MTCMA Method A Screening Level
TPH-O (O) - 500 µg/L
TPH-D (D) - 500 µg/L
Exceedance Factor = Concentration/Screening Level
FPP-B24 (16) - Sample ID
O-1.52 - Detected Analyte and Exceedance Factor

**NOTES**

1. Locations of site features and sample locations are approximate.
2. \*No samples were collected for laboratory analyses at TP-B04A, TP-B05, and FPP-B29. original may reduce its effectiveness and lead to incorrect interpretation.

**Phase II Groundwater Samples with TPH Concentrations Above the Screening Levels**

Figure 5

Data Sources: Yakima County GIS; ESRI World Imagery; SLR; URS; Parametrix 2008; Boise Cascade 1985.

Scale in Feet

0 110 220

**Legend**

**Initial Investigation (June 2013)**

- Soil Sample
- Soil and Groundwater Sample
- Groundwater Sample (Existing Well)
- Surface Water Sample
- Soil Gas Sample

**Supplemental Investigation (August 2013)**

- Soil Sample
- Soil and Groundwater Sample (New 2013 Monitoring Well)
- Wood Waste Sample

**Historical Sample Locations**

- Gas Probe - Parametrix 2008
- Gas Probe - SLR 2009
- Monitoring Well - SLR 2009
- Monitoring Well - URS
- Soil Boring - Parametrix 2008
- Soil Boring - SLR 2009
- Soil Boring - URS
- Soil Boring - URS
- Soil Boring - URS
- Dry Well - URS

**Municipal Landfill Extent**

- Building
- Former Building
- Former Pond
- Other Features
- Phase I ESA & Phase II Investigations
- Tax Parcels
- Irrigation Ditch/Culvert



TABLE 1  
SUMMARY OF SUBSURFACE EXPLORATIONS AND ANALYTICAL MATRICES - INITIAL INVESTIGATION  
YAKIMA MILL SITE  
YAKIMA, WASHINGTON

Former Plywood Plant Parcels Investigation Areas	Basis For Investigation Rationale	Previous Results	Sample ID	Media	TPH-DX	TPH-G	Metals		VOCs	SVOCs	Pests	pH	TDS/ TS	HDD	TOC	
							Cadmium	Iron Chromium								
Oil Room/Maintenance Shop Area (NW Plywood Plant)	Further assess the extent of contamination based on the previous analytical results	SS-5 (1.5 ft BGS); TPH-D, TPH-O, SVOCs (BEPH) detected above LRLs. [NEAR B01 and B02]	PPP-B01-S(0.5-1.5)	S	X	X	X		X	X						
			PPP-B02-S(2-13)	S	X	X	X		X	X						
			PPP-B02-S(4-15.5)	S	X	X	X		X	X						
			PPP-B03-S(0.5-2)	S	X	X	X		X	X						
			PPP-B03-S(3-14)	S	X	X	X		X	X						
			PPP-B01-GW(11.9)	GW	X	X	X	X	X	X	X	X				
			PPP-B02-GW(11.9)	GW	X	X	X	X	X	X	X	X				
			PPP-B03-GW(11.7)	GW	X	X	X	X	X	X	X	X				
			PPP-B04-S(11-12)	S	X	X	X	X	X	X	X	X				
			PPP-B04-S(12-25)	S	X	X	X	X	X	X	X	X				
			PPP-B06-S(2-24)	S	X	X	X	X	X	X	X	X				
			Hydraulic Room (NE Plywood Plant)	Further assess the extent of contamination based on the previous analytical results	E3.3 (8.5 ft BGS): TPH-O above screening levels; TPH-D detected above LRLs. [NEAR B04] B3.3 (14 ft BGS): TPH-O, TPH-D detected above LRLs. [NEAR B04] B4.4 (13 ft BGS): benzene above screening levels; TPH-D, TPH-O, VOCs, SVOCs detected above LRLs. [NEAR B07]	PPP-B05-S(0.5-1.5)	S	X	X	X		X	X			
PPP-B05-S(11-12)	S	X				X	X		X	X						
PPP-B04-GW(11.9)	GW	X				X	X	X	X	X	X	X				
PPP-B05-GW(11.9)	GW	X				X	X	X	X	X	X	X				
PPP-B06-GW(11.9)	GW	X				X	X	X	X	X	X	X				
PPP-B07-S(0.5-1.5)	S	X				X	X	X	X	X	X	X				
PPP-B07-S(11-12)	S	X				X	X	X	X	X	X	X				
PPP-B08-S(16-5)	S	X				X	X	X	X	X	X	X				
PPP-B08-GW(11.7)	GW	X				X	X	X	X	X	X	X				
PPP-B08-S(16-5)	S	X				X	X	X	X	X	X	X				
PPP-B07-S(16-17)	S	X				X	X	X	X	X	X	X				
East of Banker Area	Assess the nature and extent of contamination; potential downgradient impact from northern AS7 area.	No previous analytical data is available for this general area.				PPP-B08-S(16-5-15)	S	X	X	X		X	X			
			PPP-B07-S(16-17)	S	X	X	X		X	X						
			PPP-B18-S(16-5-17.5)	S	X	X	X	X	X	X	X					
			PPP-B07-GW(11.7)	GW	X	X	X	X	X	X	X					
			PPP-B09-S(15-16-5)	S	X	X	X	X	X	X	X					
			PPP-B09-S(12-13)	S	X	X	X	X	X	X	X					
			PPP-B10-S(10-11)	S	X	X	X	X	X	X	X					
			PPP-B10-S(15-16)	S	X	X	X	X	X	X	X					
			PPP-B11-S(18-19)	S	X	X	X	X	X	X	X					
			PPP-B11-S(22-23)	S	X	X	X	X	X	X	X					
			PPP-B12-S(16-7)	S	X	X	X	X	X	X	X					
			General Plywood Plant (Central/South)	Assess the nature and extent of contamination based on the previous analytical data available. [NEAR PFP-B09 and -B11] SS-7 (1.5 ft BGS): TPH-D, TPH-O detected above LRLs. [NW corner near Oil House Area - consider for additional sampling location]. Four soil gas sampling points	B2 (13 ft BGS): TPH-O, toluene, and SVOCs detected above LRLs. [NEAR PFP-B09 and -B11] SS-7 (1.5 ft BGS): TPH-D, TPH-O detected above LRLs. [NW corner near Oil House Area - consider for additional sampling location]. Four soil gas sampling points	PPP-B13-S(16-5-6-5)	S	X	X	X		X	X			
PPP-B13-S(14-15)	S	X				X	X		X	X						
PPP-B14-S(14-15)	S	X				X	X	X	X	X	X					
PPP-B14-S(18-5-19-5)	S	X				X	X	X	X	X	X					
PPP-B15-S(13-5-14-5)	S	X				X	X	X	X	X	X					
PPP-B16(11.7-12.7)	S	X				X	X	X	X	X	X					
PPP-B09-GW(11.9)	GW	X				X	X	X	X	X	X					
PPP-B11-GW(11.9)	GW	X				X	X	X	X	X	X					
PPP-B12-GW(11.9)	GW	X				X	X	X	X	X	X					
PPP-B13-GW(11.9)	GW	X				X	X	X	X	X	X					
PPP-B15-GW(11.9)	GW	X				X	X	X	X	X	X					
Parcel 43539	Assess the nature and extent of contamination	No previous analytical data available.				PPP-B21-S(13-14)	S	X	X	X		X	X			
			PPP-B22-S(12-5-13-5)	S	X	X	X		X	X						
Parcel 42604	Assess the nature and extent of contamination	No previous analytical data available.	PPP-B24-S(15-16-5)	S	X	X	X		X	X						
			PPP-B20-S(10-11)	S	X	X	X	X	X	X						
Evaporation Pond	Further assess the nature and extent of contamination	SIL sample: TPH-D, TPH-O, total iron above screening levels; Total and dissolved barium and manganese, and VOCs detected above LRLs.	PPP-B24-GW(11.9)	GW	X	X	X	X	X	X						
			PPP-B20-GW(11.1)	GW	X	X	X	X	X	X	X					
Surface Water Samples	Further assess the nature and extent of contamination	Deep hydraulic fracture pit	PPP-SW-01	SW												
			PPP-SW-02	SW												
Groundwater Wells (ie., MW-3A, MW-12)	Assess current contaminant concentrations in groundwater	MDEQ (2005) Total Fe, Mn, dissolved Mn detected above screening levels. MDEQ (2005) Total Fe, Mn, dissolved Mn detected above screening levels. MWA (2001) Dissolved As detected above screening levels; nitrate and dissolved sodium detected above LRLs.	PPP-SW-03	GW	X	X	X	X	X	X						
			MW-12-01-06202013	GW	X	X	X	X	X	X	X					
MW-13 (destroyed)			MW-12-01-06202013	GW	X	X	X	X	X	X						
				GW	X	X	X	X	X	X	X					

TABLE 1  
SUMMARY OF SUBSURFACE EXPLORATIONS AND ANALYTICAL MATRICES - INITIAL INVESTIGATION  
YAKIMA MILL SITE  
YAKIMA, WASHINGTON

Former Plywood Plant Parcel Investigation Areas	Basis for Investigation	Previous Results	Sample ID	Media	TPH-DX	TPH-G	Metals			VOCS	SVOCS	PCBs	pH	TDS/ TS	HGD	TOC
							Gen. Metals	Hex Chrome	Three Chrome							
Triangle Parcel (TP) Investigation Areas	Rationale	Further assess the extent of contamination based on previous analytical results	TP-807-S(14-15)	S	X	X	X	X	X	X	X	X	X			
			TP-808-S(7-8)	S	X	X	X	X	X	X	X	X	X			
			TP-809-S(16-17, 5)	S	X	X	X	X	X	X	X	X	X			
			TP-809-S(6-7)	S	X	X	X	X	X	X	X	X	X			
			TP-809-S(13-14)	S	X	X	X	X	X	X	X	X	X			
			TP-809-GW(18)	GW	X	X	X	X	X	X	X	X	X			
			TP-809-GW(18)	GW	X	X	X	X	X	X	X	X	X			
			TP-809-GW(18)	GW	X	X	X	X	X	X	X	X	X			
			TP-809-GW(18)	GW	X	X	X	X	X	X	X	X	X			
			TP-809-GW(18)	GW	X	X	X	X	X	X	X	X	X			
Former AST area	Further assess the extent of contamination based on previous analytical results	TP-807-S(14-15), TP-808-S(7-8), TP-809-S(16-17, 5), TP-809-S(6-7), TP-809-S(13-14), TP-809-GW(18), TP-809-GW(18)	TP-807-S(14-15)	S	X	X	X	X	X	X	X	X				
			TP-808-S(7-8)	S	X	X	X	X	X	X	X	X	X			
			TP-809-S(16-17, 5)	S	X	X	X	X	X	X	X	X	X			
			TP-809-S(6-7)	S	X	X	X	X	X	X	X	X	X			
			TP-809-S(13-14)	S	X	X	X	X	X	X	X	X	X			
			TP-809-GW(18)	GW	X	X	X	X	X	X	X	X	X			
			TP-809-GW(18)	GW	X	X	X	X	X	X	X	X	X			
			TP-809-GW(18)	GW	X	X	X	X	X	X	X	X	X			
			TP-809-GW(18)	GW	X	X	X	X	X	X	X	X	X			
			TP-809-GW(18)	GW	X	X	X	X	X	X	X	X	X			
Service Pit, Oil House, Fuel Dispensing Area	Further assess the nature and extent of contamination in the triangle parcel	No previous analytical data available for this general area.	TP-807-S(14-15)	S	X	X	X	X	X	X	X					
			TP-808-S(7-8)	S	X	X	X	X	X	X	X	X				
			TP-809-S(16-17, 5)	S	X	X	X	X	X	X	X	X	X			
			TP-809-S(6-7)	S	X	X	X	X	X	X	X	X	X			
			TP-809-S(13-14)	S	X	X	X	X	X	X	X	X	X			
			TP-809-GW(18)	GW	X	X	X	X	X	X	X	X	X			
			TP-809-GW(18)	GW	X	X	X	X	X	X	X	X	X			
			TP-809-GW(18)	GW	X	X	X	X	X	X	X	X	X			
			TP-809-GW(18)	GW	X	X	X	X	X	X	X	X	X			
			TP-809-GW(18)	GW	X	X	X	X	X	X	X	X	X			
Central Area	Assess the nature and extent of contamination in the triangle parcel	No previous analytical data available for this general area.	TP-807-S(14-15)	S	X	X	X	X	X	X	X					
			TP-808-S(7-8)	S	X	X	X	X	X	X	X	X				
			TP-809-S(16-17, 5)	S	X	X	X	X	X	X	X	X	X			
			TP-809-S(6-7)	S	X	X	X	X	X	X	X	X	X			
			TP-809-S(13-14)	S	X	X	X	X	X	X	X	X	X			
			TP-809-GW(18)	GW	X	X	X	X	X	X	X	X	X			
			TP-809-GW(18)	GW	X	X	X	X	X	X	X	X	X			
			TP-809-GW(18)	GW	X	X	X	X	X	X	X	X	X			
			TP-809-GW(18)	GW	X	X	X	X	X	X	X	X	X			
			TP-809-GW(18)	GW	X	X	X	X	X	X	X	X	X			

S - soil  
 GW - groundwater  
 TPH-DX - total and dissolved metals  
 TPH-G - total and dissolved metals  
 T - total metals only  
 D - dissolved metals only

**TABLE 2  
SUMMARY OF SUBSURFACE EXPLORATIONS AND ANALYTICAL MATRICES – SUPPLEMENTAL INVESTIGATION  
YAKIMA MILL SITE  
YAKIMA, WASHINGTON**

Former Plywood Plant Parcels Investigation Areas	Basis For Investigation	Previous Results	Sample ID	Media	TPH-Dx	TPH-G	Metals		VOCs	SVOCs	PCBs	pH	TDS/ TS	HCID	TOC		
							General	Hex Chrome									
Hydraulic Room (NE Plywood Plant)	Further assess the extent of contamination based on the previous analytical results.	EPP-B04, -B05, -B06; TPH-O in soil above screening levels. EPP-B04, -B05, -B08, -B12; TPH-O and/or TPH-D detected in GW above screening levels.	EPP-B25-S(15-16)	S	X		X										
			EPP-B26-S(15-16)		X		X										
			EPP-B27-S(15-16)		X		X										
			EPP-B28-S(15-16)		X		X										
			EPP-B29-S(15-16)		X		X										
			EPP-B30-S(15-16)		X		X										
			EPP-B31-S(15-16)		X		X										
			EPP-B32-S(15-16)		X		X										
			EPP-B33-S(15-16)		X		X										
			EPP-B34-S(15-16)		X		X										
			EPP-B35-S(15-16)		X		X										
			EPP-B36-S(15-16)		X		X										
			EPP-B37-S(15-16)		X		X										
			EPP-B38-S(15-16)		X		X										
			General Plywood Plant (southwestern margin of footprint)		Additional data within the plant footprint to further assess the nature and extent of contamination: Further assess the nature and extent of contamination: EPP-B24; TPH-O in GW above screening levels.	No initial Phase II data collected in this area. Samples collected to the north and east (no concentrations above the screening levels). EPP-B24; TPH-O in GW above screening levels.	EPP-B29b-S(15-16)	S	X		X						
EPP-B29c-S(15-16)	X			X													
EPP-B30-S(14-15)	X			X													
EPP-B31-S(15-16)	X			X													
EPP-B32-S(15-16)	X			X													
EPP-B33-S(15-16)	X			X													
EPP-B34-S(15-16)	X			X													
EPP-B35-S(15-16)	X			X													
EPP-B36-S(15-16)	X			X													
EPP-B37-S(15-16)	X			X													
EPP-B38-S(15-16)	X			X													
EPP-B39-S(15-16)	X			X													
EPP-B40-S(15-16)	X			X													
EPP-B41-S(15-16)	X			X													
EPP-B42-S(15-16)	X			X													
Barber	Assess the nature and extent of contamination within Barber footprint. Analytical results are available for locations to the east (no concentrations above the screening levels) and west (see above); however, no analytical data is available for the Barber footprint.		EPP-B29b-S(15-16)	S	X		X										
			EPP-B29c-S(15-16)		X		X										
			EPP-B30-S(14-15)		X		X										
Evaporation Pond	Further assess the nature and extent of contamination: EPP-B24; TPH-O in GW above screening levels.		EPP-B31-GW(19)	GW	X		X										
			EPP-B32-GW(19)		X		X										
			EPP-B33-GW(19)		X		X										
Triangle Parcel Investigation Areas	Basis for Investigation	Initial Phase II Results	TPM-MW-2-S(13.5-14.5)	S	X		X										
			TPM-MW-2		X		X										
			TPM-MW-1-S(13.5-14.5)		X		X										
Former AST Area	Further assess groundwater occurrence and quality	No concentrations detected in soil or groundwater above the screening levels.	TPM-MW-2-S(13.5-14.5)	S	X		X										
			TPM-MW-2		X		X										
			TPM-MW-1-S(13.5-14.5)		X		X										
Service Pit, Oil House, Fuel Dispensing Area	Further assess groundwater occurrence and quality	No concentrations detected in soil or groundwater above the screening levels.	TPM-MW-1	S	X		X										
					X		X										
					X		X										

S - soil                      GW - groundwater                      D - dissolved metals only

**TABLE 3  
BORING LOCATIONS AND PHYSICAL CONDITIONS  
YAKIMA MILL SITE  
YAKIMA, WASHINGTON**

Location ID	Location Coordinates		Depth Range (BGS)	Woodwaste Description (if encountered in sample)	Odor (if present)	Sheen (if present)
	Easting (US Survey Feet)	Northing (US Survey Feet)				
<b>INITIAL INVESTIGATION</b>						
<b>Plywood Plant Parcels</b>						
FPP-B01	1640806	466690	0-5			
FPP-B02	1640829	466656	0-2		slight petroleum-like odor	
FPP-B03	1640829	466656	14-16		slight petroleum-like odor	
FPP-B03	1640834	466624	0-15			
FPP-B04	1641066	466815	7.5-11		petroleum-like odor	
FPP-B05	1641066	466815	11-15		petroleum-like odor	sheen
FPP-B05	1641119	466792	1-11.5		petroleum-like odor	
FPP-B06	1641119	466792	11.5-20		petroleum-like odor	sheen
FPP-B06	1641075	466744	0-20			
FPP-B07	1641303	466954	0-1.5		petroleum-like odor	
FPP-B08	1641303	466954	1.5-10	Brown woodwaste material		
FPP-B09	1641303	466954	10-20		slight petroleum-like odor	
FPP-B08	1641204	466739	5.5-6	Brown woodwaste material		
FPP-B09	1641026	466628	0-12		slight petroleum-like odor	
FPP-B10	1641026	466628	12-15		slight petroleum-like odor	
FPP-B10	1640969	466593	10-15		petroleum-like odor	slight sheen
FPP-B11	1641047	466613	7-11		petroleum-like odor	
FPP-B11	1641047	466613	17.5-22		very slight petroleum-like odor	
FPP-B12	1641157	466624	0-10			
FPP-B13	1641113	466499	0-20			
FPP-B14	1640990	466412	0-6	Brown, sandy gravel with woodwaste		
FPP-B14	1640990	466412	14-15		slight petroleum-like odor	
FPP-B14	1640990	466412	18.5-20	Dark gray, silty clay with trace woodwaste and organics		
FPP-B15	1641092	466441	0-20			
FPP-B16	1641237	466457	0-20			
FPP-B17	1641136	466889	0.5-5.5		faint petroleum-like odor	
FPP-B18	1641359	466867	0-0.5	Brown woodwaste material		
FPP-B18	1641359	466867	17-25		slight petroleum-like odor	
FPP-B19	1641073	466837	0-1.5	Brown woodwaste material		
FPP-B20	1641193	466334	0-1.5		slight petroleum-like odor	
FPP-B20	1641193	466334	5.5-10	Brown woodwaste material with minor dark brown silty fine sand		

**TABLE 3  
BORING LOCATIONS AND PHYSICAL CONDITIONS  
YAKIMA MILL SITE  
YAKIMA, WASHINGTON**

Location ID	Location Coordinates		Depth Range (BGS)	Woodwaste Description (if encountered in sample)	Odor (if present)	Sheen (if present)
	Easting (US Survey Feet)	Northing (US Survey Feet)				
<b>Plywood Plant Parcels (cont.)</b>						
FPP-B20	1641193	466334	1-15	Brown woodwaste with trace brown, sandy organic clay		
FPP-B21	1640821	466266	0-20			
FPP-B22	1640879	466106	0.8-1.3	Dark brown woodwaste	slight petroleum-like odor	
FPP-B22	1640879	466106	6-15		slight petroleum-like odor	
FPP-B23	1640968	465823	0-15			
FPP-B24	1641173	466346	6-11		slight petroleum-like odor	
FPP-B24	1641173	466346	12-20		slight petroleum-like odor	
FPP-G01	1641166	466493	--			
FPP-G02	1641016	466458	--			
FPP-G03	1641145	466570	--			
FPP-G04	1641037	466538	--			
<b>Triangular Parcel</b>						
TP-B01	1640729	467011	0-20			
TP-B02	1640754	466987	0-15			
TP-B03	1640776	467009	14-18.5		slight petroleum-like odor	
TP-B04	1640828	467001	1-5		strong petroleum-like odor	heavy sheen
TP-B04a	1640836	466997	0-1		strong petroleum-like odor	sheen
TP-B04a	1640836	466997	1-2.5		strong petroleum-like odor	sheen
TP-B04a	1640836	466997	2.5-10		slight petroleum-like odor	
TP-B04b	1640844	466994	0-20			
TP-B05	1640884	467038	1-5-6	Brown woodwaste with minor dark brown silty fine sand		
TP-B05	1640884	467038	7-18	Brown woodwaste with minor dark brown silty fine sand		
TP-B06	1640948	466985	0-0.5	Brown woodwaste with minor dark brown silty fine sand		
TP-B06	1640948	466985	0.5-2	Dark brown, silty, fine sand with brown woodwaste material		
TP-B06	1640948	466985	5.5-13.5	Brown woodwaste		
TP-B07	1641109	467026	0-1.5	Brown woodwaste		
TP-B07	1641109	467026	5-13.5	Brown woodwaste		
TP-B08	1641118	467068	0-0.5	Dark brown woodwaste with minor brown sandy gravel		
TP-B08	1641118	467068	8-10	Brown woodwaste with minor dark brown silty fine sand		
TP-B08	1641118	467068	11.5-16	Brown woodwaste		
TP-B08	1641118	467068	16-17.5	Gray silt with minor woodwaste material		
TP-B09	1641155	467040	0-1.5	Brown woodwaste		
TP-B09	1641156	467040	7-13	Brown woodwaste		



**TABLE 3  
BORING LOCATIONS AND PHYSICAL CONDITIONS  
YAKIMA MILL SITE  
YAKIMA, WASHINGTON**

Location ID	Location Coordinates		Depth Range (BGS)	Woodwaste Description (if encountered in sample)	Odor (if present)	Sheen (if present)
	Easting (US Survey Feet)	Northing (US Survey Feet)				
<b>SUPPLEMENTAL INVESTIGATION</b>						
<b>Plywood Plant Parcels</b>						
FPP-B25	1641033	466827	5-10		slight petroleum-like odor	
FPP-B26	1641024	466766	0-20			
FPP-B27	1641125	466717	0-20			
FPP-B28	1641208	466853	5-10		slight petroleum-like odor	
FPP-B28	1641208	466853	10-12		slight petroleum-like odor	
FPP-B28	1641208	466853	12-15		slight petroleum-like odor	
FPP-B28	1641208	466853	15-20		strong petroleum-like odor	slight sheen
FPP-B29	1641292	466869	0-15			
FPP-B29a	1641282	466871	0-5		strong burnt odor	
FPP-B29a	1641282	466871	15-16		petroleum-like odor	sheen
FPP-B29a	1641282	466871	16-22		petroleum-like odor	
FPP-B29a	1641282	466871	22-25		strong petroleum-like odor	heavy sheen
FPP-B29b	1641319	466863	0-1.5	Brown woodwaste material		
FPP-B29b	1641319	466863	15-16		strong petroleum-like odor	sheen
FPP-B29b	1641319	466863	16-25		strong petroleum-like odor	sheen
FPP-B29c	1641250	466902	5-10		petroleum-like odor	
FPP-B29c	1641250	466902	10-15.5		slight petroleum-like odor	
FPP-B29c	1641250	466902	15.5-20		strong petroleum-like odor	sheen
FPP-B30	1641337	466758	0-20			
FPP-B31	1641410	466636	0-1		slight petroleum-like odor	
FPP-B31	1641410	466636	5-7		petroleum-like odor	
FPP-B31	1641410	466636	7-16.5		slight petroleum-like odor	
FPP-B31	1641410	466636	16.5-18		slight odor	
FPP-B32	1640877	466591	0-20			
FPP-B33	1640923	466447	0-20			
FPP-B34	1641143	466760	0-20			
FPP-MW-1	1641121	466851	0-20			
FPP-MW-2	1641250	466687	8.5-13.5		slight petroleum-like odor	
FPP-MW-3	1641192	466362	13.5-18.5		petroleum-like odor	
Wood-1	1641567	466840	0-13		Dark brown to red woodwaste material	
Wood-1	1641567	466840	14.5-19		Dark brown to red woodwaste material	
<b>Triangular Parcel</b>						
TP-MW-1	1640847	466941	0-20			
TP-MW-2	1641162	467024	8.5-13.5		Dark brown woodwaste material	

**TABLE 4**  
**SOIL ANALYTICAL DETECTION RESULTS -- TRIANGULAR PARCEL**  
**YAKIMA MILL SITE**  
**YAKIMA, WASHINGTON**

EPA Methods 6020/7471/7196	Location: Depth Lab ID: Date Collected:	Initial Investigation						
		TP-B01 (1-2) EVI3060128-47 06/21/2013	TP-B01 (6-5-7-5) EVI3060128-39 06/21/2013	TP-B02 (13-14) EVI3060128-38 06/20/2013	TP-B03 (15-16) EVI3060128-37 06/20/2013	TP-B04 (2-3) EVI3060128-34 06/20/2013	TP-B04B (11-5-13) EVI3060128-35 06/20/2013	TP-B06 (13.5-14) EVI3060128-36 06/20/2013
<b>TOTAL METALS (mg/kg)</b>								
Arsenic	20	3.7	1.9	1.9	1.9	5.8	1.8	4.4
Cadmium	2	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chromium	2000	17	11	12	9.4	17	19	22
Chromium (VI)	19	NA	5.0 U	NA	5.0 U	NA	NA	NA
Iron		29,000	21,000	23,000	22,000	33,000	24,000	29,000
Lead	250	20	4.8	5.4	3.3	28	3.4	7.4
Manganese		530	350	350	330	1200	290	300
Mercury	2	0.12	0.027	0.12	0.027	0.091	0.023	0.094
<b>TOTAL PETROLEUM HYDROCARBONS (mg/kg)</b>								
<b>NWTPH-DX</b>								
TPH-Diesel Range	2000	25 U	25 U	25 U	25 U	35 U	50 U	30 U
TPH-Oil Range	2000	57	50 U	50 U	50 U	510	1700	61
<b>NWTPH-GX</b>								
TPH-Gasoline Range	100 (a)	NA	3.0 U	3.0 U	NA	NA	3.0 U	NA
<b>PAHs (mg/kg)</b>								
<b>Method EPA-8270 SIM</b>								
CPAH TEQ	0.1	0.003	ND	ND	NA	NA	ND	NA
<b>CONVENTIONAL</b>								
Total Organic Carbon (%) (EPA-9060)		NA	NA	NA	NA	NA	1.9	1.6
pH (SU) (EPA-9045)		NA	NA	NA	NA	NA	NA	NA
Percent Solids (%) (EPA-160.3)		NA	NA	NA	NA	NA	92.0	61.4

**TABLE 4**  
**SOIL ANALYTICAL DETECTION RESULTS -- TRIANGULAR PARCEL**  
**YAKIMA MILL SITE**  
**YAKIMA, WASHINGTON**

	Location: Depth Lab ID: Date Collected:	Initial Investigation						Supplemental Investigation	
		TP-B07 (14-15) EVI3060128-40 06/21/2013	TP-B08 (7-8) EVI3060128-44 06/21/2013	TP-B08 (16-17-5) EVI3060128-43 06/21/2013	TP-B09 (6-7) EVI3060128-42 06/21/2013	TP-B09 (13-14) EVI3060128-41 06/21/2013	TP-MMW-1-S (13.5-14.5) EVI3080134-03 08/19/2013	TP-MMW-2-S (14-15) EVI3080134-06 08/19/2013	
<b>TOTAL METALS (mg/kg)</b>									
EPA Methods 6020/7471/7196									
Arsenic	20	3.1	2.7	2.5	4.5	2.1	2.1	2.3	
Cadmium	2	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	
Chromium	2000	22	13	16	22	20	12	16	
Chromium (VI)	19	NA	NA	NA	NA	5.0 U	NA	NA	
Iron		32,000	16,000	24,000	28,000	21,000	22,000	21,000	
Lead	250	8.0	6.9	4.9	32	7.7	3.3	3.4	
Manganese	300	300	260	250	430	170	300	240	
Mercury	2	0.076	0.038	0.085	0.055	0.092	0.025	0.021	
<b>TOTAL PETROLEUM HYDROCARBONS (mg/kg)</b>									
NWTPH-DX									
TPH-Diesel Range	2000	29 U	25 U	360	29 U	27 U	25 U	48	
TPH-Oil Range	2000	76	180	50 U	130	59	50 U	50 U	
NWTPH-GX									
TPH-Gasoline Range	100 (a)	NA	17	3.0 U	NA	3.0 U	NA	NA	
<b>PAHs (mg/kg)</b>									
Method EPA-8270 SIM									
CPAH TEQ	0.1	0.029	NA	ND	NA	ND	NA	NA	
<b>CONVENTIONAL</b>									
Total Organic Carbon (%) (EPA-9060)		NA	NA	NA	NA	4.2	NA	NA	
pH (SU) (EPA-9045)		NA	NA	NA	NA	6.29	NA	NA	
Percent Solids (%) (EPA-160.3)		NA	NA	NA	NA	71.4	NA	NA	

**TABLE 4**  
**SOIL ANALYTICAL DETECTION RESULTS -- TRIANGULAR PARCEL**  
**YAKIMA MILL SITE**  
**YAKIMA, WASHINGTON**

Location: Depth: Lab ID: Date Collected:	MITCA Method A Soil Cleanup Levels for Unrestricted Land Uses	Overall Investigation									
		Total No. Samples	Total No. Detections	Detections % of Total	Detection Minimum	Detection Maximum	Total No. Exceedances	Exceedances % of Total	Exceedance Minimum	Exceedance Maximum	
<b>TOTAL METALS (mg/kg)</b>											
EPA Methods 6020/7471/7196											
Arsenic	20	14	14	100%	1.8	5.8	0	NA	NA	NA	
Cadmium	2	14	0	NA	NA	NA	0	NA	NA	NA	
Chromium	2000	14	14	100%	9.4	22.0	0	NA	NA	NA	
Chromium (VI)	19	3	0	NA	NA	NA	0	NA	NA	NA	
Iron		14	14	100%	16,000	33,000	NA	NA	NA	NA	
Lead	250	14	14	100%	3.3	32.0	0	NA	NA	NA	
Manganese		14	14	100%	170.0	1200.0	NA	NA	NA	NA	
Mercury	2	14	14	100%	0.021	0.1	0	NA	NA	NA	
<b>TOTAL PETROLEUM HYDROCARBONS (mg/kg)</b>											
<b>NWTPH-DX</b>											
TPH-Diesel Range	2000	14	2	14%	48	360	0	NA	NA	NA	
TPH-Oil Range	2000	14	8	57%	57	1700	0	NA	NA	NA	
<b>NWTPH-GX</b>											
TPH-Gasoline Range	100 (a)	6	1	17%	17	17	0	NA	NA	NA	
<b>PAHs (mg/kg)</b>											
<b>Method EPA-8270 SIM</b>											
CPAH TEQ	0.1	2	--	--	0.003	0.029	0	NA	NA	NA	
<b>CONVENTIONALs</b>											
Total Organic Carbon (%) (EPA-9060)		3	--	--	1.6	4.2	NA	NA	NA	NA	
pH (SU) (EPA-9045)		1	--	--	6.29	6.29	NA	NA	NA	NA	
Percent Solids (%) (EPA-160.3)		3	--	--	61.4	92	NA	NA	NA	NA	

**TABLE 4**  
**SOIL ANALYTICAL DETECTION RESULTS -- TRIANGULAR PARCEL**  
**YAKIMA MILL SITE**  
**YAKIMA, WASHINGTON**

Location: Depth Lab ID: Date Collected:	MITCA Method A Soil Cleanup Levels for Unrestricted Land Uses	Initial Investigation											
		Total No. Samples	Total No. Detections	Detections % of Total	Detection Minimum	Detection Maximum	Total No. Exceedances	Exceedances % of Total	Exceedance Minimum	Exceedance Maximum			
<b>TOTAL METALS (mg/kg)</b>													
<b>EPA Methods 6020/7471/7196</b>													
Arsenic	20	12	12	100%	1.8	5.8	0	NA	NA	NA	NA	NA	NA
Cadmium	2	12	0	NA	NA	NA	0	NA	NA	NA	NA	NA	NA
Chromium	2000	12	12	100%	9.4	22.0	0	NA	NA	NA	NA	NA	NA
Chromium (VI)	19	3	0	NA	NA	NA	0	NA	NA	NA	NA	NA	NA
Iron		12	12	100%	16,000	33,000	NA	NA	NA	NA	NA	NA	NA
Lead	250	12	12	100%	3.3	32.0	0	NA	NA	NA	NA	NA	NA
Manganese		12	12	100%	170.0	1200.0	NA	NA	NA	NA	NA	NA	NA
Mercury	2	12	12	100%	0.0	0.1	0	NA	NA	NA	NA	NA	NA
<b>TOTAL PETROLEUM HYDROCARBONS (mg/kg)</b>													
<b>NWTPH-DX</b>													
TPH-Diesel Range	2000	12	1	8%	360	360	NA	NA	NA	NA	NA	NA	NA
TPH-Oil Range	2000	12	8	67%	57	1700	0	NA	NA	NA	NA	NA	NA
<b>NWTPH-GX</b>													
TPH-Gasoline Range	100 (a)	6	1	17%	17	17	0	NA	NA	NA	NA	NA	NA
<b>PAHs (mg/kg)</b>													
<b>Method EPA-8270 SIM</b>													
CPAH TEQ	0.1	2	--	--	0.003	0.029	0	NA	NA	NA	NA	NA	NA
<b>CONVENTIONAL</b>													
Total Organic Carbon (%) (EPA-9060)		3	--	--	1.6	4.2	NA	NA	NA	NA	NA	NA	NA
pH (SU) (EPA-9045)		1	--	--	6.29	6.29	NA	NA	NA	NA	NA	NA	NA
Percent Solids (%) (EPA-160.3)		3	--	--	61.4	92	NA	NA	NA	NA	NA	NA	NA

**TABLE 4  
SOIL ANALYTICAL DETECTION RESULTS -- TRIANGULAR PARCEL  
YAKIMA MILL SITE  
YAKIMA, WASHINGTON**

Location: Depth: Lab ID: Date Collected:	MITCA Method A Soil Cleanup Levels for Unrestricted Land Uses	Supplemental Investigation									
		Total No. Samples	Total No. Detections	Detections % of Total	Detection Minimum	Detection Maximum	Total No. Exceedances	Exceedances % of Total	Exceedance Minimum	Exceedance Maximum	
<b>TOTAL METALS (mg/kg)</b>											
EPA Methods 6020/7471/7196											
Arsenic	20	2	2	100%	2.1	2.3	0	NA	NA	NA	
Cadmium	2	2	0	NA	NA	NA	0	NA	NA	NA	
Chromium	2000	2	2	100%	12	16	0	NA	NA	NA	
Chromium (VI)	19	0	NA	NA	NA	NA	NA	NA	NA	NA	
Iron		2	2	100%	21,000	22,000	NA	NA	NA	NA	
Lead	250	2	2	100%	3.3	3.4	0	NA	NA	NA	
Manganese		2	2	100%	240	300	NA	NA	NA	NA	
Mercury	2	2	2	100%	0.021	0.025	0	NA	NA	NA	
<b>TOTAL PETROLEUM HYDROCARBONS (mg/kg)</b>											
<b>NWTPH-DX</b>											
TPH-Diesel Range	2000	2	1	50%	48	48	0	NA	NA	NA	
TPH-Oil Range	2000	2	0	NA	NA	NA	0	NA	NA	NA	
<b>NWTPH-GX</b>											
TPH-Gasoline Range	100 (a)	0	NA	NA	NA	NA	NA	NA	NA	NA	
<b>PAHs (mg/kg)</b>											
<b>Method EPA-8270 SIM</b>											
cPAH TEQ	0.1	0	--	--	NA	NA	NA	NA	NA	NA	
<b>CONVENTIONAL</b>											
Total Organic Carbon (%) (EPA-9060)		0	--	--	NA	NA	NA	NA	NA	NA	
pH (SU) (EPA-9045)		0	--	--	NA	NA	NA	NA	NA	NA	
Percent Solids (%) (EPA-160.3)		0	--	--	NA	NA	NA	NA	NA	NA	

(a) = Value is used when benzene is not present.  
 U = Indicates the compound was not detected at the reported concentration.  
 cPAH = Carcinogenic Polycyclic Aromatic Hydrocarbon.  
 Bold = Exceedance of Cleanup Level.  
 NA = Not Analyzed/Not Applicable.  
 ND = Not Detected.  
 SU = Standard Units.  
 TEQ = Toxicity Equivalency.

**TABLE 5**  
**SOIL ANALYTICAL DETECTION RESULTS -- FORMER PLYWOOD PLANT PARCELS**  
**YAKIMA MILL SITE**  
**YAKIMA, WASHINGTON**

	Location: Depth Lab ID: Date Collected:	MTCA Method A Soil Cleanup Levels for Unrestricted Land Uses	Initial Investigation						
			FPP-B01 (0.5-1.5) EVI13060128-15 06/18/2013	FPP-B01 (12-13) EVI13060128-16 06/18/2013	FPP-B02 (1-2) EVI13060128-19 06/19/2013	FPP-B02 (14-15.5) EVI13060128-20 06/19/2013	FPP-B03 (0.5-2) EVI13060128-17 06/18/2013	FPP-B03 (13-14) EVI13060128-18 06/18/2013	
<b>TOTAL METALS (mg/kg)</b>									
EPA Methods 8020/471/7196									
Arsenic	20	2.5	2.0	2.2	2.0	2.5	2.3		
Cadmium	2	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U		
Chromium	2000	15	10	13	8.8	18	14		
Chromium (VI)	19	NA	NA	NA	5.0 U	NA	NA		
Iron	23,000	20,000	21,000	21,000	21,000	24,000	23,000		
Lead	250	14	2.7	15	3.2	8.5	2.8		
Manganese	360	360	370	350	360	350	350		
Mercury	2	0.040	0.033	0.040	0.031	0.036	0.024		
<b>TOTAL PETROLEUM HYDROCARBONS (mg/kg)</b>									
NWTPH-DX									
TPH-Diesel Range	2000	25 U	25 U	25 U	25 U	25 U	25 U		
TPH-Oil Range	2000	130	50 U	190	50 U	50 U	50 U		
NWTPH-GX									
TPH-Gasoline Range	100 (a)	3.0 U	3.0 U	6.2	3.0 U	NA	NA		
<b>VOLATILES (µg/kg)</b>									
Method EPA-8260									
1,3,5-Trimethybenzene	10 U	NA	NA	10 U	10 U	10 U	NA		
1,2,4-Trimethybenzene	10 U	NA	NA	10 U	10 U	10 U	NA		
P-Isopropyltoluene	10 U	NA	NA	10 U	10 U	10 U	NA		
N-Butybenzene	10 U	NA	NA	10 U	10 U	10 U	NA		
<b>SEMIVOLATILES (µg/kg)</b>									
Method EPA-8270									
Bis(2-Ethylhexyl)Phthalate	130 U	NA	NA	130 U	130 U	130 U	NA		
<b>PAHs (mg/kg)</b>									
Method EPA-8270 SIM									
CPAH TEQ	0.1	0.020	NA	0.040	ND	ND	NA		
<b>CONVENTIONAL</b>									
Total Organic Carbon (%) (EPA-9060)	NA	NA	NA	NA	0.10 U	NA	NA		
pH (SU) (EPA-9045)	NA	NA	NA	NA	8.58	NA	NA		
Percent Solids (%) (EPA-160.3)	NA	NA	NA	NA	92.3	NA	NA		

**TABLE 5**  
**SOIL ANALYTICAL DETECTION RESULTS -- FORMER PLYWOOD PLANT PARCELS**  
**YAKIMA MILL SITE**  
**YAKIMA, WASHINGTON**

	Location: Depth Lab ID: Date Collected:	Initial Investigation							
		FPP-B04 (11-12) EVI13060128-13 06/18/2013	FPP-B04 (21-22) EVI13060128-14 06/18/2013	FPP-B05 (15-16.5) EVI13060128-25 06/19/2013	FPP-B05 (22.5-24) EVI13060128-26 06/19/2013	FPP-B06 (15-16) EVI13060128-11 06/18/2013	FPP-B07 (0.5-1) EVI13060128-23 06/19/2013	FPP-B07 (15-16) EVI13060128-24 06/19/2013	
<b>TOTAL METALS (mg/kg)</b>									
EPA Methods 8020/471/7196									
Arsenic	20	2.2	4.7	2.3	1.4	2.5	2.1	2.6	
Cadmium	2	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	
Chromium	2000	28	17	14	16	39	15	26	
Chromium (VI)	19	NA	NA	5.0 U	NA	NA	NA	NA	
Iron	26,000	26,000	20,000	22,000	22,000	22,000	37,000	25,000	
Lead	250	3.5	14	4.8	2.4	4.0	4.2	3.7	
Manganese	300	300	250	300	250	280	470	270	
Mercury	2	0.028	0.035	0.028	0.020 U	0.037	0.020 U	0.034	
<b>TOTAL PETROLEUM HYDROCARBONS (mg/kg)</b>									
NWTPH-DX									
TPH-Diesel Range	2000	250 U	25 U	100 U	25 U	50 U	120 U	25 U	
TPH-Oil Range	2000	9400	710	4500	500	2100	1500	120	
NWTPH-GX									
TPH-Gasoline Range	100 (a)	3.0 U	3.0 U	24	3.0 U	NA	NA	3.0 U	
<b>VOLATILES (µg/kg)</b>									
Method EPA-8260									
1,3,5-Trimethylbenzene	10 U	10 U	NA	22 J	10 U	NA	NA	10 U	
1,2,4-Trimethylbenzene	10 U	10 U	NA	41 J	10 U	NA	NA	10 U	
P-Isopropyltoluene	10 U	10 U	NA	11 J	10 U	NA	NA	10 U	
N-Butylbenzene	10 U	10 U	NA	12 J	10 U	NA	NA	10 U	
<b>SEMI-VOLATILES (µg/kg)</b>									
Method EPA-8270									
Bis(2-Ethylhexyl)Phthalate		1300 U	NA	260 U	130 U	NA	260 U	130 U	
<b>PAHs (mg/kg)</b>									
Method EPA-8270 SIM									
CPAH TEQ	0.1	ND	NA	ND	ND	NA	0.063	ND	
<b>CONVENTIONAL</b>									
Total Organic Carbon (%) (EPA-9060)	NA	NA	NA	0.65	NA	NA	NA	0.15	
pH (SU) (EPA-9045)	NA	NA	NA	7.11	NA	NA	NA	7.80	
Percent Solids (%) (EPA-160.3)	NA	NA	NA	90.5	NA	NA	NA	84.0	



**TABLE 5**  
**SOIL ANALYTICAL DETECTION RESULTS -- FORMER PLYWOOD PLANT PARCELS**  
**YAKIMA MILL SITE**  
**YAKIMA, WASHINGTON**

Location: Depth Lab ID: Date Collected:	MTCA Method A Soil Cleanup Levels for Unrestricted Land Uses	Initial Investigation							
		FPP-B08 (5-6-5) EVI13060128-12 06/18/2013	FPP-B09 (12-13) EVI13060128-22 06/19/2013	FPP-B09 (15-16.5) EVI13060128-21 06/19/2013	FPP-B10 (10-11) EVI13060128-09 06/18/2013	FPP-B10 (15-16) EVI13060128-10 06/18/2013	FPP-B11 (18-19) EVI13060128-08 06/18/2013	FPP-B11 (22-23) EVI13060128-48 06/18/2013	
<b>TOTAL METALS (mg/kg)</b>									
EPA Methods 8020/471/7196									
Arsenic	20	3.2	2.1	2.9	2.1	2.4	2.4	1.4	
Cadmium	2	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	
Chromium	2000	17	17	13	16	21	14	11	
Chromium (VI)	19	NA	NA	5.0 U	NA	NA	NA	NA	
Iron	25000	23.000	25.000	21.000	22.000	22.000	21.000	20.000	
Lead	250	15	3.5	7.8	4.4	3.6	7.6	2.9	
Manganese		360	290	260	260	200	230	220	
Mercury	2	0.052	0.025	0.025	0.061	0.027	0.032	0.040	
<b>TOTAL PETROLEUM HYDROCARBONS (mg/kg)</b>									
NWTPH-DX									
TPH-Diesel Range	2000	220 J	25 U	560 J	25 U	25 U	25 U	25 U	
TPH-Oil Range	2000	520	50 U	180	50 U	79	170	50 U	
NWTPH-GX									
TPH-Gasoline Range	100 (a)	3.0 U	NA	3.0 U	3.0 U	NA	3.0 U	NA	
<b>VOLATILES (µg/kg)</b>									
Method EPA-8260									
1,3,5-Trimethybenzene		10 U	NA	10 U	10 U	NA	10 U	NA	
1,2,4-Trimethybenzene		10 U	NA	10 U	10 U	NA	10 U	NA	
P-Isopropyltoluene		10 U	NA	10 U	10 U	NA	10 U	NA	
N-Butylbenzene		10 U	NA	10 U	10 U	NA	10 U	NA	
<b>SEMIVOLATILES (µg/kg)</b>									
Method EPA-8270									
Bis(2-Ethylhexyl)Phthalate		260 U	NA	130 U	130 U	NA	130 U	NA	
<b>PAHs (mg/kg)</b>									
Method EPA-8270 SIM									
CPAH TEQ	0.1	0.003	NA	ND	ND	NA	0.014	NA	
<b>CONVENTIONALS</b>									
Total Organic Carbon (%) (EPA-9060)		1.5	NA	3.3	NA	NA	NA	NA	
pH (SU) (EPA-9045)		8.22	NA	6.39	NA	NA	NA	NA	
Percent Solids (%) (EPA-160.3)		85.4	NA	73.6	NA	NA	NA	NA	

**TABLE 5**  
**SOIL ANALYTICAL DETECTION RESULTS -- FORMER PLYWOOD PLANT PARCELS**  
**YAKIMA MILL SITE**  
**YAKIMA, WASHINGTON**

	Location: Depth Lab ID: Date Collected:	Initial Investigation							
		FPP-B12 (6-7) EVI13060128-07 06/17/2013	FPP-B13 (5-5-6-5) EVI13060128-06 06/17/2013	FPP-B13 (12-14-5) EVI13060128-05 06/17/2013	FPP-B14 (14-15) EVI13060128-03 06/17/2013	FPP-B14 (18-5-19-5) EVI13060128-04 06/17/2013	FPP-B15 (13-5-14-5) EVI13060128-02 06/17/2013	FPP-B16 (11-7-12-7) EVI13060128-01 06/17/2013	
<b>TOTAL METALS (mg/kg)</b>									
EPA Methods 8020/7471/7196									
Arsenic	20	1.6	1.6	1.6	1.8	8.4	1.2	2.3	
Cadmium	2	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	
Chromium	2000	14	19	16	16	14	17	15	
Chromium (VI)	19	NA	NA	5.0 U	NA	NA	NA	NA	
Iron	18,000	23,000	25,000	23,000	20,000	26,000	26,000	22,000	
Lead	250	2.1	3.3	2.9	3.0	67	1.7	13	
Manganese	240	370	290	300	240	250	250	230	
Mercury	2	0.020 U	0.020 U	0.022	0.020 U	0.075	0.020 U	0.032	
<b>TOTAL PETROLEUM HYDROCARBONS (mg/kg)</b>									
NW/TPH-DX									
TPH-Diesel Range	2000	25 U	25 U	25 U	25 U	25 U	25 U	25 U	
TPH-Oil Range	2000	50 U	50 U	50 U	50 U	960	50 U	150	
NW/TPH-GX									
TPH-Gasoline Range	100 (a)	3.0 U	NA	3.0 U	NA	NA	NA	NA	
<b>VOLATILES (µg/kg)</b>									
Method EPA-8260									
1,3,5-Trimethybenzene	10 U	NA	NA	10 U	NA	NA	NA	NA	
1,2,4-Trimethybenzene	10 U	NA	NA	10 U	NA	NA	NA	NA	
P-Isopropyltoluene	10 U	NA	NA	10 U	NA	NA	NA	NA	
N-Butylbenzene	10 U	NA	NA	10 U	NA	NA	NA	NA	
<b>SEMI-VOLATILES (µg/kg)</b>									
Method EPA-8270									
Bis(2-Ethylhexyl)Phthalate	130 U	NA	NA	130 U	NA	NA	NA	NA	
<b>PAHs (mg/kg)</b>									
Method EPA-8270 SIM									
CPAH TEQ	0.1	ND	NA	ND	NA	NA	NA	NA	
<b>CONVENTIONAL</b>									
Total Organic Carbon (%) (EPA-9060)	NA	NA	NA	0.11	NA	NA	NA	NA	
pH (SU) (EPA-9045)	NA	NA	NA	8.86	NA	NA	NA	NA	
Percent Solids (%) (EPA-160.3)	NA	NA	NA	NA	NA	NA	NA	NA	

**TABLE 5**  
**SOIL ANALYTICAL DETECTION RESULTS -- FORMER PLYWOOD PLANT PARCELS**  
**YAKIMA MILL SITE**  
**YAKIMA, WASHINGTON**

EPA Methods 6020/471/7196	Location: Depth: Lab ID: Date Collected:	Initial Investigation							
		FPP-B17 (0.5-1.5) EVI3060128-46 06/21/2013	FPP-B17 (16-17) EVI3060128-45 06/21/2013	FPP-B18 (16.5-17.5) EVI3060128-27 06/19/2013	FPP-B19 (11-12) EVI3060128-28 06/19/2013	FPP-B20 (10-11) EVI3060128-33 06/20/2013	FPP-B21 (13-14) EVI3060128-31 06/20/2013	FPP-B22 (12.5-13.5) EVI3060128-30 06/20/2013	
<b>TOTAL METALS (mg/kg)</b>									
Arsenic	20	2.5	2.1	1.9	NA	2.4	2.1	2.0	
Cadmium	2	0.50 U	0.50 U	0.50 U	NA	0.50 U	0.50 U	0.50 U	
Chromium	2000	21	19	28	NA	9.3	11	15	
Chromium (VI)	19	NA	NA	NA	NA	NA	NA	NA	
Iron	27,000	23,000	23,000	23,000	NA	31,000	22,000	22,000	
Lead	250	10	5.0	6.3	NA	30	3.0	3.3	
Manganese	320	290	240	290	NA	560	340	310	
Mercury	2	0.055	0.047	0.027	NA	0.079	0.025	0.024	
<b>TOTAL PETROLEUM HYDROCARBONS (mg/kg)</b>									
<b>NWTPH-DX</b>									
TPH-Diesel Range	2000	25 U	25 U	25 U	25 U	25 U	25 U	25 U	
TPH-Oil Range	2000	87	88	190	140	130	50 U	50 U	
<b>NWTPH-GX</b>									
TPH-Gasoline Range	100 (a)	NA	3.0 U	NA	3.0 U	3.0 U	NA	NA	
<b>VOLATILES (µg/kg)</b>									
<b>Method EPA-8260</b>									
1,3,5-Trimethybenzene	NA	NA	10 U	10 U	10 U	10 U	NA	NA	
1,2,4-Trimethybenzene	NA	NA	10 U	10 U	10 U	10 U	10 U	NA	
P-Isopropyltoluene	NA	NA	10 U	10 U	10 U	10 U	10 U	NA	
N-Butybenzene	NA	NA	10 U	10 U	10 U	10 U	NA	NA	
<b>SEMIVOLATILES (µg/kg)</b>									
<b>Method EPA-8270</b>									
Bis(2-Ethylhexyl)Phthalate	NA	NA	130 U	NA	NA	150	NA	NA	
<b>PAHs (mg/kg)</b>									
<b>Method EPA-8270 SIM</b>									
CPAH TEQ	0.1	NA	ND	NA	NA	ND	NA	NA	
<b>CONVENTIONAL</b>									
Total Organic Carbon (%) (EPA-9060)	NA	NA	NA	NA	NA	NA	NA	0.10 U	
pH (SU) (EPA-9045)	NA	NA	NA	NA	NA	7.89	NA	8.33	
Percent Solids (%) (EPA-160.3)	NA	NA	NA	NA	NA	NA	NA	93.2	

**TABLE 5**  
**SOIL ANALYTICAL DETECTION RESULTS -- FORMER PLYWOOD PLANT PARCELS**  
**YAKIMA MILL SITE**  
**YAKIMA, WASHINGTON**

	Location: Depth: Lab ID: Date Collected:	Initial Investigation		Supplemental Investigation			
		FPP-B23 (11-5-12/5) EVI13060128-29 06/20/2013	FPP-B24 (15-16-5) EVI13060128-32 06/20/2013	FPP-B25-S (15-16) EVI13080134-26 08/21/2013	FPP-B26-S (15-16) EVI13080134-22 08/21/2013	FPP-B27-S (5-6) EVI13080134-17 08/21/2013	FPP-B28-S (15-16) EVI13080134-52 08/23/2013
<b>TOTAL METALS (mg/kg)</b>							
EPA Methods 8020/471/7196							
Arsenic	20	1.9	2.4	2.0	1.9	1.0 U	2.0
Cadmium	2	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chromium	2000	12	17	110	25	19	17
Chromium (VI)	19	NA	5.0 U	NA	NA	NA	NA
Iron	24,000	24,000	24,000	40,000	21,000	20,000	21,000
Lead	250	2.9	6.7	3.8	3.3	11	4.2
Manganese	370	370	250	320	250	300	220
Mercury	2	0.031	0.028	0.020 U	0.023	0.15	0.021
<b>TOTAL PETROLEUM HYDROCARBONS (mg/kg)</b>							
NWTPH-DX							
TPH-Diesel Range	2000	25 U	25 U	25 U	44	50 U	250 U
TPH-Oil Range	2000	50 U	440	50 U	140	1300	6100
NWTPH-GX							
TPH-Gasoline Range	100 (a)	NA	3.0 U	NA	NA	NA	NA
<b>VOLATILES (µg/kg)</b>							
Method EPA-8260							
1,3,5-Trimethybenzene	NA	NA	10 U	NA	NA	NA	NA
1,2,4-Trimethybenzene	NA	NA	10 U	NA	NA	NA	NA
P-Isopropyltoluene	NA	NA	10 U	NA	NA	NA	NA
N-Butybenzene	NA	NA	10 U	NA	NA	NA	NA
<b>SEMIVOLATILES (µg/kg)</b>							
Method EPA-8270							
Bis(2-Ethylhexyl)Phthalate	NA	NA	130 U	NA	NA	NA	NA
<b>PAHs (mg/kg)</b>							
Method EPA-8270 SIM							
CPAH TEQ	0.1	NA	ND	NA	NA	NA	NA
<b>CONVENTIONAL</b>							
Total Organic Carbon (%) (EPA-9060)	NA	NA	2.2	NA	0.14	NA	NA
pH (SU) (EPA-9045)	NA	NA	8.10	NA	NA	NA	NA
Percent Solids (%) (EPA-160.3)	NA	NA	78.1	NA	NA	NA	NA

**TABLE 5**  
**SOIL ANALYTICAL DETECTION RESULTS -- FORMER PLYWOOD PLANT PARCELS**  
**YAKIMA MILL SITE**  
**YAKIMA, WASHINGTON**

EPA Methods 6020/471/7196	Location: Depth: Lab ID: Date Collected:	Supplemental Investigation						
		FPP-B29a-S (15-16) EVI3080134-44 08/22/2013	FPP-B29b-S (15-16) EVI3080134-56 08/23/2013	FPP-B29c-S (15-16) EVI3080134-60 08/23/2013	FPP-B30-S (14-15) EVI3080134-30 08/22/2013	FPP-B31-S (15-16) EVI3080134-39 08/22/2013	FPP-B32-S (15-16) EVI3080134-48 08/22/2013	FPP-B33-S (10-11) EVI3080134-35 08/22/2013
<b>TOTAL METALS (mg/kg)</b>								
Asenic	20	3.7	4.0	3.0	3.0	2.1	2.6	1.9
Cadmium	2	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chromium	2000	20	17	20	16	17	18	21
Chromium (VI)	19	NA	NA	NA	NA	NA	NA	NA
Iron	31,000	31,000	30,000	31,000	29,000	21,000	24,000	21,000
Lead	250	5.3	5.5	5.7	2.3	10	5.4	2.5
Manganese	570	570	560	410	460	300	370	290
Mercury	2	0.092	0.082	0.12	0.093	0.050	0.15	0.022
<b>TOTAL PETROLEUM HYDROCARBONS (mg/kg)</b>								
<b>NW/TPH-DX</b>								
TPH-Diesel Range	2000	120 U	25 U	120 U	130 J	25 UJ	25 U	25 U
TPH-Oil Range	2000	2000	560	<b>3500</b>	240	820 J	50 U	50 U
<b>NW/TPH-GX</b>								
TPH-Gasoline Range	100 (a)	NA	NA	NA	NA	NA	NA	NA
<b>VOLATILES (µg/kg)</b>								
<b>Method EPA-8260</b>								
1,3,5-Trimethybenzene	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethybenzene	NA	NA	NA	NA	NA	NA	NA	NA
P-Isopropyltoluene	NA	NA	NA	NA	NA	NA	NA	NA
N-Butybenzene	NA	NA	NA	NA	NA	NA	NA	NA
<b>SEMIVOLATILES (µg/kg)</b>								
<b>Method EPA-8270</b>								
Bis(2-Ethylhexyl)Phthalate	NA	NA	NA	NA	NA	NA	NA	NA
<b>PAHs (mg/kg)</b>								
<b>Method EPA-8270 SIM</b>								
CPAH TEQ	0.1	NA	NA	NA	NA	NA	NA	NA
<b>CONVENTIONAL</b>								
Total Organic Carbon (%) (EPA-9060)	NA	NA	NA	NA	<b>2.8</b>	NA	NA	0.091
pH (SU) (EPA-9045)	NA	NA	NA	NA	NA	NA	NA	NA
Percent Solids (%) (EPA-160.3)	NA	NA	NA	NA	NA	NA	NA	NA

**TABLE 5**  
**SOIL ANALYTICAL DETECTION RESULTS -- FORMER PLYWOOD PLANT PARCELS**  
**YAKIMA MILL SITE**  
**YAKIMA, WASHINGTON**

	Location: Depth Lab ID: Date Collected:	MTCA Method A Soil Cleanup Levels for Unrestricted Land Uses	Supplemental Investigation			
			FPP-B34-S (15-16) EVI3080134-33 08/22/2013	FPP-MMV-1-S (8-5-9) EVI3080134-08 08/20/2013	FPP-MMV-2-S (8-5-9-5) EVI3080134-12 08/20/2013	FPP-MMV-3-S (13-5-14-5) EVI3080134-15 08/20/2013
<b>TOTAL METALS (mg/kg)</b>						
EPA Methods 6020/7471/7196						
Arsenic	20	2.1	2.3	2.1	2.9	
Cadmium	2	0.50 U	0.50 U	0.50 U	0.50 U	
Chromium	2000	35	50	26	16	
Chromium (VI)	19	NA	NA	NA	NA	
Iron	23,000	23,000	28,000	25,000	18,000	
Lead	250	5.0	6.2	4.1	6.6	
Manganese	300	300	330	310	200	
Mercury	2	0.022	0.024	0.025	0.028	
<b>TOTAL PETROLEUM HYDROCARBONS (mg/kg)</b>						
NWTPH-DX						
TPH-Diesel Range	2000	25 U	25 U	25 U	46	
TPH-Oil Range	2000	50 U	50 U	67	55	
NWTPH-GX						
TPH-Gasoline Range	100 (a)	NA	NA	NA	NA	
<b>VOLATILES (µg/kg)</b>						
Method EPA-8260						
1,3,5-Trimethybenzene	NA	NA	NA	NA	NA	
1,2,4-Trimethybenzene	NA	NA	NA	NA	NA	
P-Isopropyltoluene	NA	NA	NA	NA	NA	
N-Butybenzene	NA	NA	NA	NA	NA	
<b>SEMIVOLATILES (µg/kg)</b>						
Method EPA-8270						
Bis(2-Ethylhexyl)Phthalate	NA	NA	NA	NA	NA	
<b>PAHs (mg/kg)</b>						
Method EPA-8270 SIM						
CPAH TEQ	0.1	NA	NA	NA	NA	
<b>CONVENTIONAL</b>						
Total Organic Carbon (%) (EPA-9060)	NA	NA	NA	NA	NA	
pH (SU) (EPA-9045)	NA	NA	NA	NA	NA	
Percent Solids (%) (EPA-160.3)	NA	NA	NA	NA	NA	

**TABLE 5**  
**SOIL ANALYTICAL DETECTION RESULTS -- FORMER PLYWOOD PLANT PARCELS**  
**YAKIMA MILL SITE**  
**YAKIMA, WASHINGTON**

EPA Methods 6020/471/7196	Location: Depth: Lab ID: Date Collected:	MTCA Method A Soil Cleanup Levels for Unrestricted Land Uses	Overall Investigation																
			Total No. Samples	Total No. Detections	Detections % of Total	Detection Minimum	Detection Maximum	Total No. Exceedances	Exceedances % of Total	Exceedance Minimum	Exceedance Maximum								
<b>TOTAL METALS (mg/kg)</b>																			
Arsenic		20	50	49	98%	1.2	8.4	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium		2	50	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium		2000	50	50	100%	8.8	110	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium (VI)		19	5	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron		250	50	50	100%	18,000	40,000	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead			50	50	100%	1.7	67	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese			50	50	100%	200	570	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury		2	50	42	84%	0.021	0.150	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>TOTAL PETROLEUM HYDROCARBONS (mg/kg)</b>																			
<b>NWTPH-DX</b>																			
TPH-Diesel Range		2000	51	5	10%	44	560	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH-Oil Range		2000	51	31	61%	55	9400	5	10%	2100	9400								
<b>NWTPH-GX</b>																			
TPH-Gasoline Range		100 (a)	19	2	11%	6.2	24	0	NA	NA	NA								
<b>VOLATILES (µg/kg)</b>																			
<b>Method EPA-8260</b>																			
1,3,5-Trimethybenzene			19	1	5%	22	22	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethybenzene			19	1	5%	41	41	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
P-Isopropyltoluene			19	1	5%	11	11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Butylbenzene			19	1	5%	12	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>SEMIVOLATILES (µg/kg)</b>																			
<b>Method EPA-8270</b>																			
Bis(2-Ethylhexyl)Phthalate			18	1	6%	150	150	NA	NA	NA	NA								
<b>PAHs (mg/kg)</b>																			
<b>Method EPA-8270 SIM</b>																			
cPAH TEQ		0.1	5	--	--	0.003	0.063	0	NA	NA	NA								
<b>CONVENTIONAL</b>																			
Total Organic Carbon (%) (EPA-9060)			11	--	--	0.091	3.3	NA	NA	NA	NA								
pH (SU) (EPA-9045)			9	--	--	6.39	8.86	NA	NA	NA	NA								
Percent Solids (%) (EPA-160.3)			7	--	--	73.6	93.2	NA	NA	NA	NA								

**TABLE 5  
SOIL ANALYTICAL DETECTION RESULTS -- FORMER PLYWOOD PLANT PARCELS  
YAKIMA MILL SITE  
YAKIMA, WASHINGTON**

EPA Methods 6020/471/7196	Location: Depth Lab ID: Date Collected:	MTCA Method A Soil Cleanup Levels for Unrestricted Land Uses	Initial Investigation																	
			Total No. Samples	Total No. Detections	Detections % of Total	Detection Minimum	Detection Maximum	Total No. Exceedances	Exceedances % of Total	Exceedance Minimum	Exceedance Maximum									
<b>TOTAL METALS (mg/kg)</b>																				
Arsenic		20	35	35	100%	1.2	8.4	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Cadmium		2	35	0	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chromium		2000	35	35	100%	8.8	39	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chromium (VI)		19	5	0	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Iron		250	35	35	100%	18,000	37,000	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Lead			35	35	100%	1.7	67	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Manganese			35	35	100%	200	560	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Mercury		2	35	29	83%	0.022	0.079	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
<b>TOTAL PETROLEUM HYDROCARBONS (mg/kg)</b>																				
<b>NWTPH-DX</b>																				
TPH-Diesel Range		2000	36	2	6%	220	560	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
TPH-Oil Range		2000	36	21	58%	79	9400	3	8%	2100	9400									
<b>NWTPH-GX</b>																				
TPH-Gasoline Range		100 (a)	19	2	11%	6.2	24	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
<b>VOLATILES (µg/kg)</b>																				
<b>Method EPA-8260</b>																				
1,3,5-Trimethybenzene			19	1	5%	22	22	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
1,2,4-Trimethybenzene			19	1	5%	41	41	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
P-Isopropyltoluene			19	1	5%	11	11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
N-Butylbenzene			19	1	5%	12	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
<b>SEMIVOLATILES (µg/kg)</b>																				
<b>Method EPA-8270</b>																				
Bis(2-Ethylhexyl)Phthalate			18	1	6%	150	150	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
<b>PAHs (mg/kg)</b>																				
<b>Method EPA-8270 SIM</b>																				
CPAH TEQ		0.1	5	--	--	0.00292	0.06308	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
<b>CONVENTIONAL</b>																				
Total Organic Carbon (%) (EPA-9060)			8	--	--	0.1	3.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
pH (SU) (EPA-9045)			9	--	--	6.39	8.86	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Percent Solids (%) (EPA-160.3)			7	--	--	73.6	93.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	



**TABLE 5**  
**SOIL ANALYTICAL DETECTION RESULTS -- FORMER PLYWOOD PLANT PARCELS**  
**YAKIMA MILL SITE**  
**YAKIMA, WASHINGTON**

Location:		Supplemental Investigation									
Depth	MTCA Method A	Total No. Samples	Total No. Detections	Detections % of Total	Detection Minimum	Detection Maximum	Total No. Exceedances	Exceedances % of Total	Exceedance Minimum	Exceedance Maximum	
<b>TOTAL METALS (mg/kg)</b>											
<b>EPA Methods 8020/471/7196</b>											
Arsenic	20	15	14	93%	1.9	4.0	0	NA	NA	NA	
Cadmium	2	15	0	NA	NA	NA	0	NA	NA	NA	
Chromium	2000	15	15	100%	16	110	0	NA	NA	NA	
Chromium (VI)	19	0	NA	NA	NA	NA	NA	NA	NA	NA	
Iron	250	15	15	100%	18,000	40,000	0	NA	NA	NA	
Lead	2	15	15	100%	2.5	23	0	NA	NA	NA	
Manganese		15	15	100%	200	570	0	NA	NA	NA	
Mercury		15	14	93%	0.021	0.15	0	NA	NA	NA	
<b>TOTAL PETROLEUM HYDROCARBONS (mg/kg)</b>											
<b>NWTPH-DX</b>											
TPH-Diesel Range	2000	15	3	20%	44	130	0	NA	NA	NA	
TPH-Oil Range	2000	15	10	67%	55	6100	2	13%	3500	6100	
<b>NWTPH-GX</b>											
TPH-Gasoline Range	100 (a)	0	NA	NA	NA	NA	NA	NA	NA	NA	
<b>VOLATILES (µg/kg)</b>											
<b>Method EPA-8260</b>											
1,3,5-Trimethybenzene		0	NA	NA	NA	NA	NA	NA	NA	NA	
1,2,4-Trimethybenzene		0	NA	NA	NA	NA	NA	NA	NA	NA	
P-Isopropyltoluene		0	NA	NA	NA	NA	NA	NA	NA	NA	
N-Butylbenzene		0	NA	NA	NA	NA	NA	NA	NA	NA	
<b>SEMIVOLATILES (µg/kg)</b>											
<b>Method EPA-8270</b>											
Bis(2-Ethylhexyl)Phthalate		0	NA	NA	NA	NA	NA	NA	NA	NA	
<b>PAHs (mg/kg)</b>											
<b>Method EPA-8270 SIM</b>											
cPAH TEQ	0.1	0	--	--	NA	NA	NA	NA	NA	NA	
<b>CONVENTIONAL</b>											
Total Organic Carbon (%) (EPA-9060)		3	--	--	0.091	2.8	NA	NA	NA	NA	
pH (SU) (EPA-9045)		0	--	--	NA	NA	NA	NA	NA	NA	
Percent Solids (%) (EPA-160.3)		0	--	--	NA	NA	NA	NA	NA	NA	

**TABLE 5**  
**SOIL ANALYTICAL DETECTION RESULTS -- FORMER PLYWOOD PLANT PARCELS**  
**YAKIMA MILL SITE**  
**YAKIMA, WASHINGTON**

(a) = Value is used when benzene is not present.  
U = Indicates the compound was not detected at the reported concentration.  
J = Indicates the analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.  
UU = The analyte was not detected in the sample; the reported sample reporting limit is an estimate.  
**Bold = Exceedance of Cleanup Level.**  
NA = Not Analyzed/Not Applicable.  
ND = Not Detected.  
SU = Standard Units.  
TEQ = Toxicity Equivalency.  
cPAH = Carcinogenic Polycyclic Aromatic Hydrocarbon.

**TABLE 6  
GROUNDWATER ANALYTICAL DETECTION RESULTS -- TRIANGULAR PARCEL  
YAKIMA MILL SITE  
YAKIMA, WASHINGTON**

Location: Depth: Lab ID: Date Collected:	MTCOA Method A Cleanup Levels for Groundwater	Minimum Screening Level (Groundwater as Drinking Water) Unless Otherwise Indicated	Initial Investigation					Supplemental Investigation	
			TP-B01 19 EVI13060128-59 06/21/2013	TP-B04B 18 EVI13060119-03 06/20/2013	TP-B06 16 EVI13060128-57 06/20/2013	TP-B08 18 EVI13060128-54 06/21/2013	TP-B09 18 EVI13060128-61 06/21/2013	TP-MM-1 EVI13080134-65 08/22/2013	TP-MM-2 EVI13080134-68 08/22/2013
<b>DISSOLVED METALS (µg/L)</b> EPA Methods 200.8/7196/7470									
Arsenic (g)	5	0.15 (b)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.5
Cadmium	5	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chromium	50	48	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chromium (VI)			NA	NA	NA	NA	NA	NA	NA
Copper	15	300	86 U	91 U	70 U	220 U	39 U	39 U	8100 U
Lead	15	50	72 U	85 U	1400 U	1400 U	1400 U	1400 U	1400 U
Manganese	2	20,000	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Mercury			7600	12,000	17,000	17,000	18,000	21,000	24,000
Sodium									
<b>TOTAL METALS (µg/L)</b> EPA Methods 200.8/7196/7470									
Arsenic (g)	5	0.15 (b)	NA	NA	NA	NA	NA	NA	NA
Cadmium	50	5	NA	NA	NA	NA	NA	NA	NA
Chromium	300	48	NA	1.0 U	NA	NA	NA	NA	NA
Chromium (VI)			NA	NA	NA	NA	NA	NA	NA
Lead	15	50	NA	NA	NA	NA	NA	NA	NA
Manganese	2	20,000	NA	NA	NA	NA	NA	NA	NA
Mercury			NA	NA	NA	NA	NA	NA	NA
Sodium			NA	NA	NA	NA	NA	NA	NA
<b>TOTAL PETROLEUM HYDROCARBONS (µg/L)</b> MTCOA TP-HC Range									
TP-HC Range	500		130 U	130 U	130 U	130 U	130 U	130 U	130 U
TP-HC Range	500		250 U	250 U	250 U	250 U	250 U	250 U	250 U
<b>VOLATILES (µg/L)</b> Method EPA-8260									
Chloroform		80	2.7	4.3	NA	2.0 U	2.0 U	2.9	2.0 U
<b>CONVENTIONAL (mg/L)</b> Total Organic Carbon (SM510C)									
			NA	NA	NA	NA	NA	1.3	3.5
<b>FIELD PARAMETERS</b>									
pH		6.5-9.5	6.75	5.49	6.23	5.67	6.22	6.64	6.56

TABLE 6  
GROUNDWATER ANALYTICAL DETECTION RESULTS -- TRIANGULAR PARCEL  
YAKIMA MILL SITE  
YAKIMA, WASHINGTON

Location: Depth: Lab ID: Date Collected:	MTCOA Method A Cleanup Levels for Groundwater	Minimum Screening Level (Groundwater as Drinking Water) Unless Otherwise Indicated	Overall Investigation														
			Total No. Samples	Total No. Detections	Detections % of Total	Detection Minimum	Detection Maximum	MTCOA Total No. Exceedances	MTCOA Exceedance % of Total	MTCOA Exceedance Minimum	MTCOA Exceedance Maximum	Min Screening Level No. Exceedances	Min Screening Level Exceedance % of Total	Min Screening Minimum	Min Screening Maximum		
<b>DISOLVED METALS (ug/L)</b>																	
EPA Methods 200.8/7198/7470																	
Asenic (g)	5	0.15 (b)	7	1	14%	2.5	2.5	0	NA	NA	NA	NA	NA	1 (g)	14%	2.5	2.5
Cadmium	5	5	7	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	NA	NA	NA
Chromium	50	48	7	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	NA	NA	NA
Chromium (VI)			1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	NA	NA	NA
Total	15	300	7	6	86%	88	810	NA	NA	NA	NA	NA	NA	6	28%	140	810
Lead			7	7	100%	72	1400	NA	NA	NA	NA	NA	NA	7	100%	72	1400
Manganese			7	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	NA	NA	NA
Mercury	2	20,000	7	7	100%	7600	24,000	NA	NA	NA	NA	NA	NA	2	NA	21,000	24,000
Sodium																	
<b>TOTAL METALS (ug/L)</b>																	
EPA Methods 200.8/7198/7470																	
Asenic (g)	5	0.15 (b)	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0 (g)	NA	NA	NA
Cadmium	5	5	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	NA	NA	NA
Chromium	50	48	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	NA	NA	NA
Chromium (VI)			0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	NA	NA	NA
Total	15	300	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	NA	NA	NA
Lead			0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	NA	NA	NA
Manganese			0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	NA	NA	NA
Mercury	2	20,000	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	NA	NA	NA
Sodium				NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	NA	NA	NA
<b>TOTAL PETROLEUM HYDROCARBONS (ug/L)</b>																	
MTHX-A																	
TPH-CL Range	500		7	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH-OL Range	500		7	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>VOLATILES (ug/L)</b>																	
Method EPA-8260																	
Chloroform		80	6	3	50%	2.7	4.3	NA	NA	NA	NA	NA	NA	0	NA	NA	NA
<b>CONVENTIONAL (mg/L)</b>																	
Total Organic Carbon (SM510C)			2	--	--	1.3	3.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>FIELD PARAMETERS</b>																	
pH		6.5-8.5	7	--	--	5.49	6.75	NA	NA	NA	NA	NA	NA	4	57%	5.49	6.23

TABLE 6  
GROUNDWATER ANALYTICAL DETECTION RESULTS -- TRIANGULAR PARCEL  
YAKIMA MILL SITE  
YAKIMA, WASHINGTON

Location: Depth: Lab ID: Date Collected:	MTCOA Method A Cleanup Levels for Groundwater	Minimum Screening Level (Groundwater as Drinking Water) Unless Otherwise Indicated	Screening Levels				Initial Investigation								
			Total No. Samples	Total No. Detections	Detections % of Total	Detection Minimum	Detection Maximum	MTCOA Total No. Exceedances	MTCOA A Exceedances % of Total	MTCOA A Exceedance Minimum	MTCOA A Exceedance Maximum	Min Screening Level No. Exceedances	Min Screening Level % of Total Exceedances	Min Screening Level Minimum	Min Screening Level Maximum
<b>DISOLVED METALS (µg/L)</b>															
EPA Methods 200.8/7196/7470															
Arsenic (g)	5	0.15 (b)	5	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	0 (g)	NA
Barium	5	5	5	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	NA
Chromium	50	48	5	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	NA
Chromium (VI)		300	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	NA
Cadmium	15	300	5	0	100%	NA	740	NA	NA	NA	NA	NA	NA	0	20%
Copper	5	50	5	0	NA	NA	72	NA	NA	NA	NA	NA	NA	5	100%
Manganese	2	20,000	5	5	100%	NA	7600	NA	NA	NA	NA	NA	NA	5	100%
Mercury			5	5	100%	NA	19000	NA	NA	NA	NA	NA	NA	0	NA
Sodium			5	5	100%	NA	7600	NA	NA	NA	NA	NA	NA	0	NA
<b>TOTAL METALS (µg/L)</b>															
EPA Methods 200.8/7196/7470															
Arsenic (g)	5	0.15 (b)	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	0 (g)	NA
Barium	5	5	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	NA
Chromium	50	48	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	NA
Chromium (VI)		300	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	NA
Lead	15	50	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	NA
Manganese	2	20,000	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	NA
Mercury			0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	NA
Sodium			0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	NA
<b>TOTAL PETROLEUM HYDROCARBONS (µg/L)</b>															
MTPH-XA	500		5	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH-Cl Range	500		5	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>VOLATILES (µg/L)</b>															
Method EPA-8260															
Chloroform		80	4	2	50%	2.7	4.3	NA	NA	NA	NA	NA	NA	0	NA
<b>CONVENTIONAL (mg/L)</b>															
Total Organic Carbon (SM510C)			0	--	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>FIELD PARAMETERS</b>															
pH		6.5-8.5	5	--	--	5.49	6.75	NA	NA	NA	NA	NA	NA	4	80%

**TABLE 6  
GROUNDWATER ANALYTICAL DETECTION RESULTS -- TRIANGULAR PARCEL  
YAKIMA MILL SITE  
YAKIMA, WASHINGTON**

Location: Depth: Lab ID: Date Collected:	MTCOA Method A Cleanup Levels for Groundwater	Screening Levels				Supplemental Investigation											
		Minimum Screening Level (Groundwater as Drinking Water) Unless Otherwise Indicated	Total No. Samples	Total No. Detections	Detections % of Total	Detection Minimum	Detection Maximum	MTCOA Total No. Exceedances	MTCOA Exceedance % of Total	MTCOA Exceedance Minimum	MTCOA Exceedance Maximum	Min Screening Level No. Exceedances	Min Screening Level Exceedance % of Total	Min Screening Level Minimum	Min Screening Level Maximum		
<b>DISSOLVED METALS (ug/L)</b>																	
EPA Methods 200.8/7196/7470	5	0.15 (b)	2	1	50%	2.5	2.5	0	NA	NA	NA	NA	NA	1 (a)	50%	2.5	2.5
Ascentic (a)	5	5	2	0	NA	NA	NA	0	NA	NA	NA	NA	NA	0 (a)	NA	NA	NA
Chromium	50	48	2	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	NA	NA	NA
Chromium (VI)		300	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	NA	NA	NA
Lead	15	300	2	1	50%	8100	8100	NA	NA	NA	NA	NA	NA	0	NA	8100	8100
Manganese	2	50	2	2	100%	140	140	NA	NA	NA	NA	NA	NA	2	100%	140	1400
Mercury	2	20,000	2	2	100%	NA	21000	NA	NA	NA	NA	NA	NA	NA	100%	NA	24,000
Sodium			2	2				NA	NA	NA	NA	NA	NA	2			
<b>TOTAL METALS (ug/L)</b>																	
EPA Methods 200.8/7196/7470	5	0.15 (b)	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ascentic (a)	50	5	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50	48	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium (VI)		300	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	15	300	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	2	50	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	2	20,000	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium			0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>TOTAL PETROLEUM HYDROCARBONS (ug/L)</b>																	
MTH-HA	500		2	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TPH-Cl Range	500		2	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>VOLATILES (ug/L)</b>																	
Method EPA-8260		80	2	1	50%	2.9	2.9	NA	NA	NA	NA	NA	NA	0	NA	NA	NA
Chloroform								NA	NA	NA	NA	NA	NA				
<b>CONVENTIONAL (mg/L)</b>																	
Total Organic Carbon (SM510C)			2	--	--	1.3	3.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>FIELD PARAMETERS</b>																	
pH		6.5-8.5	2	--	--	6.56	6.64	NA	NA	NA	NA	NA	NA	0	NA	NA	NA

(a) = The reporting limit for this analyte is higher than the minimum screening level; non-detects at the reporting limit are not identified as an exceedance.  
 (b) = Based on Practical Quantification Limit.  
 U = Indicates the compound was not detected at the reported concentration.  
 Bold = Exceedance of Screening Level.  
 NA = Not Analyzed/Not Applicable.

TABLE 7  
GROUNDWATER ANALYTICAL DETECTION RESULTS -- FORMER PLYWOOD PLANT PARCELS  
YAKIMA MILL SITE  
YAKIMA, WASHINGTON

Location Depth Lab ID Chemical Levels for DBP Composite	Minimum Screening Level (Groundwater Unless Otherwise Indicated)	Initial Investigations															
		FPF-301 17 EVI13060128-53 06/18/2013	FPF-302 19 EVI13060104-04 06/18/2013	FPF-303 17 EVI13060128-80 06/18/2013	FPF-304 15 EVI13060128-56 06/18/2013	FPF-305 18 EVI13060104-07 06/18/2013	FPF-307 17 EVI13060104-06 06/18/2013	FPF-308 17 EVI13060128-52 06/18/2013	FPF-309 18 EVI13060104-05 06/18/2013	FPF-311 18 EVI13060128-55 06/17/2013	FPF-312 18 EVI13060104-03 06/17/2013	FPF-313 13 EVI13060104-02 06/17/2013	FPF-315 18 EVI13060104-01 06/17/2013	FPF-317 17 EVI13060128-58 06/17/2013	FPF-319 17 EVI13060128-46 06/18/2013		
<b>DISSOLVED METALS (µg/L)</b>																	
Asenic (a)	0.15 (c)	1.0 U	1.0 U	1.0 U	1.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Barium	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromine	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chromium (VI)	48	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Cadmium	15	80	80	80	480	3800	430	430	430	76	430	76	430	3800	430	76	1200
Copper	15	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Lead	15	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Manganese	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Mercury	2	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Selenium	20,000	13,000	14,000	19,000	79,000	59,000	22,000	43,000	41,000	23,000	41,000	23,000	41,000	47,000	18,000	47,000	18,000
<b>TOTAL METALS (µg/L)</b>																	
EPA Methods 800.6/716.0/719																	
Asenic (a)	0.15 (c)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromine	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium (VI)	48	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	20,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>TOTAL PETROLEUM HYDROCARBONS (µg/L)</b>																	
EPA Methods 800.6/716.0/719																	
TPH-CL Average	500	130 U	130 U	130 U	1700	620 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U
TPH-CL Range	500	250 U	250 U	250 U	8000	7800	250 U	250 U	250 U	250 U	600	250 U	250 U	250 U	250 U	250 U	650
TPH-CL Range	1000 (b)	50 U	50 U	50 U	50 U	51	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
<b>VOLATILES (µg/L)</b>																	
EPA Methods 800.6/716.0/719																	
Chloroform	80	3.3	2.8	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
<b>VOLATILES (µg/L)</b>																	
EPA Methods 800.6/716.0/719																	
Trichloroethylene	0.5	0.020 U	0.020 U	NA	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U
<b>SEMIOURATILES (µg/L)</b>																	
EPA Methods 800.6/716.0/719																	
2,4-Dinitrophenol	180	2.0 U	2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
2,4,6-Trinitrophenol	2.0 U	2.0 U	2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
2,4,6-Trinitrophenol	6.0	2.0 U	2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
<b>PAHS (µg/L)</b>																	
EPA Methods 800.6/716.0/719																	
Benzo(a)pyrene	2.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>CONVENTIONAL (mg/L)</b>																	
EPA Methods 800.6/716.0/719																	
Total Organic Carbon (TOC)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>FIELD PARAMETERS</b>																	
PH	6.5-8.5	6.49	6.73	6.78	6.30	6.00	5.86	6.03	6.71	6.13	5.79	6.15	6.70	5.92	6.27		

TABLE 7  
GROUNDWATER ANALYTICAL DETECTION RESULTS -- FORMER PLYWOOD PLANT PARCELS  
YAKIMA MILL SITE  
YAKIMA, WASHINGTON

Location Depth Lab ID	Minimum Screening Level (Groundwater as Drinking Water) Unless Otherwise Indicated	Sampling Levels														
		Site Concentrations	11 EVI13080128-51 06/20/2013	16 EVI13080128-50 06/20/2013	MW-24-01 EVI13080118-02 06/20/2013	MW-12-01 EVI13080119-01 06/20/2013	18-5 EVI13080134-64 06/21/2013	19-5 EVI13080134-43 06/21/2013	16 EVI13080134-62 06/21/2013	19 EVI13080134-72 06/22/2013	19 EVI13080134-73 06/22/2013	19 EVI13080134-66 06/22/2013	18 EVI13080134-67 06/22/2013	19 EVI13080134-71 06/22/2013	19 EVI13080134-68 06/22/2013	19 EVI13080134-70 06/22/2013
<b>DISSOLVED METALS (µg/L)</b>																
Asbestos (g)	0.15 (G)	2.7	1.0 U	1.0 U	1.3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Barium (g)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromine (µg)	48	7.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Chromium (VI)	300	21,000	8.4	16,000	16,000	9,950	14,000	1,600	23,000	23,000	14,000	24,000	23,000	14,000	24,000	21,000
Cadmium	15	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Copper	30	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Lead	30	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Manganese	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Mercury	2	130,000	53,000	11,000	46,000	16,000	23,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000
Selenium	20,000	NA	NA	11,000	46,000	16,000	23,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000
<b>TOTAL METALS (µg/L)</b>																
EPA Methods 800.6/7160.4/719																
Asbestos (g)	0.15 (G)	NA	NA	1.0 U	1.3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Barium (g)	5	NA	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Bromine (µg)	48	NA	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chromium (VI)	300	NA	NA	50 U	18,000 U	NA	14,000	1,600	23,000	23,000	14,000	24,000	23,000	14,000	24,000	21,000
Cadmium	15	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Copper	30	NA	NA	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Lead	30	NA	NA	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Manganese	0.20 U	NA	NA	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Mercury	2	NA	NA	11,000	46,000	16,000	23,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000
Selenium	20,000	NA	NA	11,000	46,000	16,000	23,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000
<b>TOTAL PETROLEUM HYDROCARBONS (µg/L)</b>																
EPA Methods 800.6/7160.4/719																
TPH (g)	500	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U
TPH-C1 Range	500	760	250 U	760	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U
TPH-C2 Range	1000 (G)	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
<b>INORGANIC</b>																
<b>VOLATILES (µg/L)</b>																
EPA Methods 800.6/7160.4/719																
Acetone	80	2.0 U	2.0 U	3.9	2.0 U	NA	NA	2.0 U	NA	NA	NA	2.0 U	NA	NA	2.0 U	2.0 U
Chloroform	0.5	0.020 U	0.020 U	1.2	1.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>NONVOLATILES (µg/L)</b>																
EPA Methods 800.6/7160.4/719																
Formaldehyde	180	2.0 U	8.1	2.0 U	2.0 U	NA	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.7
2,4-Dinitrophenol	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.7
2,4,6-Trinitrophenol	6.0	2.0 U	2.0 U	2.0 U	2.0 U	NA	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.7 U
2,4,6-Trinitrophenol	6.0	2.0 U	2.0 U	2.0 U	2.0 U	NA	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.7 U
<b>PAHS (µg/L)</b>																
EPA Methods 800.6/7160.4/719																
Benzo(a)pyrene	2.0 U	NA	NA	0.020 U	0.020 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>CONVENTIONALS (mg/L)</b>																
EPA Methods 800.6/7160.4/719																
Total Organic Carbon (TOC)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	17
<b>FIELD PARAMETERS</b>																
pH	6.5-8.5	6.79	6.29	6.26	6.23	6.16	6.59	6.65	6.36	6.53	6.29	6.97	6.52	5.90	6.62	



TABLE 7  
 GROUNDWATER ANALYTICAL DETECTION RESULTS -- FORMER PLYWOOD PLANT PARCELS  
 YAKIMA MILL SITE  
 YAKIMA, WASHINGTON

Location Depth Labi ID Chemical Levels for Data Corrected	Screening Level Minimum Screening Level (Groundwater as Drinking Water) Unless Otherwise Indicated	Total No.		Detection % of Total	Detection		Overall Investigation				Min Screening			
		Stamps	Detections		Minimum	Maximum	MTCA A Total No. Exceedences of Total	MTCA A Exceedence % of Total	MTCA A Minimum	MTCA A Maximum	Min Screening Level No. Exceedences	Min Screening Level Exceedence % of Level Exceedence Total	Min Screening Minimum	Min Screening Maximum
<b>DISSOLVED METALS (µg/L)</b>														
Arsenic (a)	0.15 (c)	26	16	62%	1.0	35.0	3	12%	5.3	35	16 (0)	62%	1.0	35
Boron	5	26	0	0%	0	0	0	NA	NA	NA	0	NA	NA	NA
Chromium	48	26	0	0%	2.0	2.0	0	NA	NA	NA	0	NA	NA	NA
Cadmium	300	26	23	88%	71	50,000	NA	NA	NA	NA	19	73%	3.50	50,000
Copper	15	26	1	4%	9.2	9.2	0	NA	NA	NA	0	0%	NA	NA
Lead	50	26	0	0%	0	0	0	NA	NA	NA	0	0%	NA	NA
Manganese	20,000	26	0	0%	NA	NA	NA	NA	NA	NA	19	73%	22,000	1,500,000
Selenium	20,000	26	26	100%	11,000	1,500,000	NA	NA	NA	NA	19	73%	22,000	1,500,000
<b>TOTAL METALS (µg/L)</b>														
EPA Methods 800.8/786.0/719														
Arsenic (a)	0.15 (c)	3	3	100%	1.0	2.5	0	NA	NA	NA	3 (0)	100%	1.0	2.5
Boron	5	3	0	0%	NA	NA	0	NA	NA	NA	0	NA	NA	NA
Chromium	48	3	0	0%	NA	NA	0	NA	NA	NA	0	NA	NA	NA
Cadmium	300	3	2	67%	13,000	18,000	NA	NA	NA	NA	2	67%	13,000	18,000
Copper	15	3	2	67%	1,000	2,200	NA	NA	NA	NA	2	67%	1,000	2,200
Lead	50	3	0	0%	NA	NA	0	NA	NA	NA	2	67%	NA	NA
Manganese	20,000	3	3	100%	11,000	150,000	NA	NA	NA	NA	2	67%	45,000	150,000
Selenium	20,000	3	3	100%	11,000	150,000	NA	NA	NA	NA	2	67%	45,000	150,000
<b>TOTAL PETROLEUM HYDROCARBONS (µg/L)</b>														
EPA Methods 800.8/786.0/719														
TPH-DX	500	27	7	26%	150	200	2	7%	1,750	200	NA	NA	NA	NA
TPH-OT Range	500	27	9	33%	270	47,000	7	26%	600	47,000	NA	NA	NA	NA
<b>NUMPH-CX</b>														
TPH-Seasonal Range														
NUMPH-CX	1000 (b)	17	1	6%	51	51	0	NA	NA	NA	NA	NA	NA	NA
<b>VOLATILES (µg/L)</b>														
EPA Methods 800.8/786.0/719														
Chloroform	80	17	3	18%	2.8	3.9	NA	NA	NA	NA	0	NA	NA	NA
<b>VOLATILES (µg/L)</b>														
EPA Methods 800.8/786.0/719														
Trichloroethene	0.5	14	2	14%	1.2	1.9	0	NA	NA	NA	2	14%	1.2	1.9
<b>SEMIVOLATILES (µg/L)</b>														
EPA Methods 800.8/786.0/719														
Method EPA-8210	180	18	2	13%	27	8.1	NA	NA	NA	NA	0	NA	NA	NA
2,4-Dinitrophenol	6.0	18	1	6%	4.7	4.7	NA	NA	NA	NA	0	NA	NA	NA
2,4-Dinitrophenol	6.0	18	1	6%	4.7	4.7	NA	NA	NA	NA	0	NA	NA	NA
2,4-Dinitrophenol	6.0	18	1	6%	4.7	4.7	NA	NA	NA	NA	0	NA	NA	NA
2,4-Dinitrophenol	6.0	18	1	6%	4.7	4.7	NA	NA	NA	NA	0	NA	NA	NA
<b>PAHS (µg/L)</b>														
EPA Method EPA-8210M														
PAHS (µg/L)	2	2	0	0%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>CONVENTIONALS (mg/L)</b>														
Total Organic Carbon (TOC)														
TOC	6.5-8.5	3	0	0%	17	38	NA	NA	NA	NA	NA	NA	NA	NA
<b>FIELD PARAMETERS</b>														
pH	6.5-8.5	28	0	0%	5.73	9.65	NA	NA	NA	NA	19	68%	5.73	9.65

TABLE 7  
 GROUNDWATER ANALYTICAL DETECTION RESULTS -- FORMER PLYWOOD PLANT PARCELS  
 YAKIMA MILL SITE  
 YAKIMA, WASHINGTON

Parameter	Location Depth Labi ID	MTCAMethod Chemical Levels for Bios Corrected	Minimum Screening Level (Groundwater as Drinking Water) Unless Otherwise Indicated	Screening Level				Initial Investigation									
				Total No.	Detection %	Detection Minimum	Detection Maximum	MTC A Total		MTC A Exceedance %		MTC A Exceedance		Min Screening Level No. Exceedances	Min Screening Level Total	Min Screening Level Exceedance Minimum	Min Screening Level Exceedance Maximum
								No.	% of Total	Minimum	Maximum	Minimum	Maximum				
<b>DISSOLVED METALS (µg/L)</b>																	
Arsenic (a)	5	0.15 (c)	16	8	50%	1.0	2.7	0	NA	NA	NA	NA	NA	8 (6)	56%	1.0	2.7
Cadmium	5	5	16	0	NA	NA	NA	0	NA	NA	NA	NA	NA	0	NA	NA	NA
Chromium	50	48	16	0	NA	2.8	2.8	0	NA	NA	NA	NA	NA	0	NA	NA	NA
Chromium (VI)	300	300	16	0	NA	1600	1600	0	NA	NA	NA	NA	NA	0	NA	NA	NA
Copper	15	15	13	0	0%	71	21,000	0	NA	NA	NA	NA	NA	0	0%	4.50	21,000
Lead	15	15	16	0	NA	NA	NA	0	NA	NA	NA	NA	NA	0	NA	NA	NA
Manganese	50	50	16	0	0%	400	400	0	NA	NA	NA	NA	NA	0	NA	NA	NA
Mercury	2	2	16	0	0%	NA	NA	0	NA	NA	NA	NA	NA	0	NA	NA	NA
Selenium	20,000	20,000	16	0	100%	11,000	130,000	0	NA	NA	NA	NA	NA	11	69%	22,000	130,000
<b>TOTAL METALS (µg/L)</b>																	
EPA Method 8200/8160/419																	
Arsenic (a)	5	0.15 (c)	3	3	100%	1.0	2.5	0	NA	NA	NA	NA	NA	3 (6)	100%	1.0	2.5
Cadmium	50	5	3	0	0%	NA	NA	0	NA	NA	NA	NA	NA	0	NA	NA	NA
Chromium (VI)	300	48	5	0	0%	NA	NA	0	NA	NA	NA	NA	NA	0	NA	NA	NA
Copper	15	300	3	2	67%	13,000	16,000	2	67%	NA	NA	NA	NA	2	67%	13,000	16,000
Lead	15	50	3	2	67%	1,700	2,200	2	67%	NA	NA	NA	NA	2	67%	1,700	2,200
Mercury	2	2	3	0	0%	NA	NA	0	NA	NA	NA	NA	NA	0	NA	NA	NA
Selenium	20,000	20,000	3	3	100%	11,000	150,000	0	NA	NA	NA	NA	NA	2	67%	45,000	150,000
<b>TOTAL PETROLEUM HYDROCARBONS (µg/L)</b>																	
EPA Method 8160																	
Benzene	500	17	1	1	6%	1700	1700	1	6%	1700	1700	NA	NA	NA	NA	NA	NA
Toluene	500	17	5	5	29%	600	7500	5	29%	600	7500	NA	NA	NA	NA	NA	NA
<b>INORGANIC</b>																	
EPA Method 8330																	
Ammonia-N	1000 (b)	14	1	1	7%	51	51	0	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>VOLATILES (µg/L)</b>																	
EPA Method 8260																	
Acetone	80	14	3	3	21%	2.8	3.9	0	NA	NA	NA	NA	NA	0	NA	NA	NA
<b>VOLATILES (µg/L)</b>																	
EPA Method 8260/8210M																	
Methanol	0.5	14	2	2	14%	1.2	1.9	0	NA	NA	NA	NA	NA	2	14%	1.2	1.9
<b>SEMIVOLATILES (µg/L)</b>																	
EPA Method 8210																	
1,2-Dichloroethane	180	13	1	1	8%	8.1	8.1	0	NA	NA	NA	NA	NA	0	NA	NA	NA
1,1-Dichloroethene	60	13	2	0	NA	NA	NA	0	NA	NA	NA	NA	NA	0	NA	NA	NA
1,2-Dibromoethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dibromoethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dibromoethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dibromoethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dibromoethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>CONVENTIONALIS (mg/L)</b>																	
EPA Method 8150																	
Total Organic Carbon (TOC)	0	0	0	0	0%	NA	NA	0	NA	NA	NA	NA	NA	0	NA	NA	NA
<b>FIELD PARAMETERS</b>																	
pH	6.5-8.5	18	0	0	0%	5.73	6.79	NA	NA	NA	NA	NA	NA	14	78%	5.73	6.49

TABLE 7  
GROUNDWATER ANALYTICAL DETECTION RESULTS -- FORMER PLYWOOD PLANT PARCELS  
YAKIMA MILL SITE  
YAKIMA, WASHINGTON

Location Depth Lab ID Chemical Levels for Base Compound	Screening Level				Supplemental Investigation															
	Minimum Screening Level (Groundwater as Drinking Water) Unless Otherwise Indicated	Total No. Samples	Total No. Detections	Detection % of Total	MTC A Total Exceedances		MTC A Exceedance % of Total		MTC A Exceedance Minimum		MTC A Exceedance Maximum		Min Screening Level No. Exceedances		Min Screening Level % of Level Exceedance Total		Min Screening Level Exceedance Minimum		Min Screening Level Exceedance Maximum	
					No.	%	Minimum	Maximum	Minimum	Maximum	Level No.	%	Minimum	Maximum	Level No.	%	Minimum	Maximum		
<b>DISSOLVED METALS (µg/L)</b> Arsenic (a)	0.15 (c)	10	8	80%	1	10%	150	2000	0	0%	150	2000	8 (d)	80%	1.1	35				
Boron	5	10	0	0%	0	0%	NA	NA	0	0%	NA	NA	0	0%	NA	NA				
Chromium	48	10	0	0%	0	0%	NA	NA	0	0%	NA	NA	0	0%	NA	NA				
Cadmium	300	10	0	0%	0	0%	NA	NA	0	0%	NA	NA	0	0%	NA	NA				
Copper	15	10	1	10%	0	0%	9.2	50,000	0	0%	9.2	50,000	0	0%	NA	NA				
Lead	50	10	0	0%	0	0%	8.0	NA	0	0%	8.0	NA	0	0%	NA	NA				
Manganese	50	10	0	0%	0	0%	NA	NA	0	0%	NA	NA	0	0%	NA	NA				
Mercury	2	10	0	0%	0	0%	NA	NA	0	0%	NA	NA	0	0%	NA	NA				
Selenium	20,000	10	0	0%	0	0%	18,000	1,500,000	0	0%	18,000	1,500,000	8	80%	23,000	1,500,000				
<b>TOTAL METALS (µg/L)</b> EPA Methods 800.8/786.0/719																				
Arsenic (a)	0.15 (c)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA				
Boron	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA				
Chromium	48	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA				
Cadmium	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA				
Copper	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA				
Manganese	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA				
Mercury	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA				
Selenium	20,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA				
<b>TOTAL PETROLEUM HYDROCARBONS (µg/L)</b>																				
Benzene	500	10	6	60%	1	10%	150	2000	0	0%	150	2000	NA	NA	NA	NA				
Toluene	500	10	4	40%	2	20%	270	47000	0	0%	270	47000	NA	NA	NA	NA				
TPH-C1 Range	1000 (b)	3	0	0%	0	0%	NA	NA	0	0%	NA	NA	NA	NA	NA	NA				
<b>VOLATILES (µg/L)</b> Method EPA-821.5M Chloroform	80	3	0	0%	NA	NA	NA	NA	NA	NA	NA	NA	0	0%	NA	NA				
<b>VOLATILES (µg/L)</b> Method EPA-821.5M Methoxychlor	0.5	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA				
<b>SEMIOURATIC (µg/L)</b> Method EPA-827.0 2,4-Dinitrophenol	180	3	1	33%	NA	NA	2.7	2.7	NA	NA	NA	NA	0	0%	NA	NA				
2,4-Dinitrophenol	60	3	1	33%	NA	NA	4.7	4.7	NA	NA	NA	NA	0	0%	NA	NA				
2,4-Dinitrophenol	60	3	0	0%	NA	NA	NA	NA	NA	NA	NA	NA	0	0%	NA	NA				
<b>PAHS (µg/L)</b> Method EPA-827.1M 2,3,7,8-TCDF	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA				
<b>CONVENTIONALS (mg/L)</b> Total Organic Carbon (TOC)	6.5-8.5	3	NA	NA	NA	NA	17	38	NA	NA	NA	NA	NA	NA	NA	NA				
<b>FIELD PARAMETERS</b>																				
pH		10	NA	NA	NA	NA	5.90	9.65	NA	NA	NA	NA	5	50%	5.90	9.65				

(a) = This reporting limit for the analyte is higher than the minimum screening level; iron detects at the reporting limit are not identified as an exceedance.  
 (b) = Value is used when benzene is not present.  
 (c) = Based on Practical Quantitation Limit.  
 (d) = Value is based on the reporting limit of the reported concentration.  
 J = Indicates the analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.  
 Bold = Exceedance of Screening Level.  
 NA = Not Applicable/Not Detectable.

## **Data Tables**





**TABLE A-1**  
**SOIL ANALYTICAL RESULTS**  
**YAKIMA MILL SITE**  
**YAKIMA, WASHINGTON**

Location: Depth Lab ID	MPCA Method A Soil Cleanup Levels for Unrestricted Land Uses	Former Plymouth Plant Parcels Initial Investigation													
		FPP-B01 (0.5-1.5) EVI3060728-15 06/18/2013	FPP-B01 (12-13) EVI3060728-16 06/18/2013	FPP-B02 (1-2) EVI3060728-19 06/18/2013	FPP-B02 (14-15) EVI3060728-20 06/18/2013	FPP-B03 (0.5-2) EVI3060728-17 06/18/2013	FPP-B03 (13-14) EVI3060728-18 06/18/2013	FPP-B04 (11-12) EVI3060728-13 06/18/2013	FPP-B04 (21-22) EVI3060728-14 06/18/2013	FPP-B05 (15-16.5) EVI3060728-25 06/18/2013	FPP-B05 (22.5-24) EVI3060728-26 06/18/2013	FPP-B06 (15-16) EVI3060728-11 06/18/2013	FPP-B07 (0.5-1) EVI3060728-23 06/18/2013	FPP-B07 (15-16) EVI3060728-24 06/18/2013	FPP-B08 (6-8.5) EVI3060728-12 06/18/2013
Head to toe benzene	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	200 U	100 U	NA	200 U	100 U	200 U	
Perchloroethylene	500 U	NA	500 U	500 U	500 U	500 U	500 U	500 U	1000 U	500 U	NA	1000 U	500 U	200 U	
Chlorobenzene	100 U	NA	100 U	100 U	100 U	100 U	100 U	100 U	200 U	100 U	NA	200 U	100 U	200 U	
Dihaloethylenes	150 U	NA	150 U	150 U	150 U	150 U	150 U	150 U	250 U	150 U	NA	250 U	150 U	250 U	
Trihaloethylenes	150 U	NA	150 U	150 U	150 U	150 U	150 U	150 U	250 U	150 U	NA	250 U	150 U	250 U	
3,3-Dichlorobenzidine	250 U	NA	250 U	250 U	250 U	250 U	250 U	250 U	500 U	250 U	NA	500 U	250 U	500 U	
Bar-EthylhexylPhthalate	130 U	NA	130 U	130 U	130 U	130 U	130 U	130 U	250 U	130 U	NA	250 U	130 U	250 U	
D-N-Octylphthalate	100 U	NA	100 U	100 U	100 U	100 U	100 U	100 U	200 U	100 U	NA	200 U	100 U	200 U	
<b>PAHs (mg/Kg)</b>															
<b>Method EPA-8270 SIM</b>															
Naphthalene	0.052	NA	0.057	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.020 U	0.010 U	NA	0.020 U	0.010 U	0.020 U	
2-Methylnaphthalene	0.028	NA	0.028	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.020 U	0.010 U	NA	0.020 U	0.010 U	0.020 U	
1-Methylnaphthalene	0.019	NA	0.016	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.020 U	0.010 U	NA	0.020 U	0.010 U	0.020 U	
Total Naphthalenes	0.089	NA	0.108	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.020 U	0.010 U	NA	0.020 U	0.010 U	0.020 U	
Acenaphthylene	0.019	NA	0.031	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.020 U	0.010 U	NA	0.020 U	0.010 U	0.020 U	
Acenaphthene	0.010 U	NA	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.020 U	0.010 U	NA	0.020 U	0.010 U	0.020 U	
Fluorene	0.051	NA	0.058	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.020 U	0.010 U	NA	0.020 U	0.010 U	0.020 U	
Anthracene	0.049	NA	0.092	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.020 U	0.010 U	NA	0.020 U	0.010 U	0.020 U	
Fluoranthene	0.053	NA	0.11	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.020 U	0.010 U	NA	0.020 U	0.010 U	0.045	
Pyrene	0.013	NA	0.028	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.020 U	0.010 U	NA	0.020 U	0.010 U	0.042	
Benz[a]anthracene	0.021	NA	0.033	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.020 U	0.010 U	NA	0.020 U	0.010 U	0.020 U	
Benzo[a]fluoranthene	0.011	NA	0.019	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.020 U	0.010 U	NA	0.020 U	0.010 U	0.020 U	
Benzo[b]fluoranthene	0.014	NA	0.030	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.020 U	0.010 U	NA	0.020 U	0.010 U	0.020 U	
Indeno[1,2,3-cd]perylene	0.012	NA	0.018	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.020 U	0.010 U	NA	0.020 U	0.010 U	0.020 U	
Dibenz[a,h]anthracene	0.019	NA	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.020 U	0.010 U	NA	0.020 U	0.010 U	0.020 U	
Benz[ghi]perylene	0.020	NA	0.040	ND	ND	ND	ND	ND	0.020 U	0.010 U	NA	0.020 U	0.010 U	0.020 U	
ΣPAH TEQ															
<b>PCBs (mg/Kg)</b>															
<b>Method EPA-8082</b>															
PCB-1016	0.10 U	NA	NA	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	NA	0.10 U	0.10 U	0.10 U	
PCB-1038	0.10 U	NA	NA	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	NA	0.10 U	0.10 U	0.10 U	
PCB-1221	0.10 U	NA	NA	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	NA	0.10 U	0.10 U	0.10 U	
PCB-1232	0.10 U	NA	NA	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	NA	0.10 U	0.10 U	0.10 U	
PCB-1248	0.10 U	NA	NA	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	NA	0.10 U	0.10 U	0.10 U	
PCB-1246	0.10 U	NA	NA	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	NA	0.10 U	0.10 U	0.10 U	
PCB-1254	0.10 U	NA	NA	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	NA	0.10 U	0.10 U	0.10 U	
PCB-1260	0.10 U	NA	NA	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	NA	0.10 U	0.10 U	0.10 U	
Total PCBs	1	NA	NA	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	NA	0.10 U	0.10 U	0.10 U	
<b>CONVENTIONAL S</b>															
Total Organic Carbon (%) (EPA-8260)	NA	NA	NA	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	NA	0.10 U	0.10 U	0.10 U	
Total Nitrogen (%) (EPA-8245)	NA	NA	NA	8.88	9.23	9.23	9.23	9.23	9.23	9.23	NA	9.23	9.23	9.23	
Percent Solids (%) (EPA-8603)	NA	NA	NA	92.3	92.3	92.3	92.3	92.3	92.3	92.3	NA	92.3	92.3	92.3	

**TABLE A-1  
SOIL ANALYTICAL RESULTS  
YAKIMA MILL SITE  
YAKIMA, WASHINGTON**

Location: Depth Lab ID	MPCA Method A Soil Cleanup Levels for Unrestricted Land Uses	Former Plymouth Plant Parcels Initial Investigation															
		FPP-B09 (12-13) EVI3060728-22 06/19/2013	FPP-B09 (15-16S) EVI3060728-21 06/19/2013	FPP-B10 (10-11) EVI3060728-09 06/19/2013	FPP-B10 (15-16) EVI3060728-10 06/19/2013	FPP-B11 (18-19) EVI3060728-08 06/18/2013	FPP-B11 (22-23) EVI3060728-48 06/17/2013	FPP-B12 (6-7) EVI3060728-07 06/17/2013	FPP-B13 (5.5-6.5) EVI3060728-06 06/17/2013	FPP-B13 (12-14S) EVI3060728-05 06/17/2013	FPP-B14 (14-15) EVI3060728-03 06/17/2013	FPP-B14 (18.5-19.5) EVI3060728-04 06/17/2013	FPP-B15 (13.5-14.5) EVI3060728-02 06/17/2013	FPP-B16 (11.7-12.7) EVI3060728-01 06/17/2013			
<b>TOTAL METALS (mg/kg)</b> EPA Methods 6120/7171/96		2.1	2.9	2.1	2.4	2.4	1.4	1.8	1.8	1.8	1.8	8.4	1.2	2.3			
Asbestos	20	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U			
Chromium	2000	NA	5.0 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Chromium (VI)	19	25,000	21,000	22,000	22,000	21,000	20,000	18,000	23,000	25,000	23,000	20,000	25,000	22,000			
Lead	250	3.5	7.8	4.4	3.6	7.6	2.9	2.1	3.3	3.0	6.7	1.7	1.3				
Manganese	2	290	260	260	200	230	220	240	370	300	240	250	230				
Mercury	2	0.025	0.025	0.051	0.027	0.032	0.040	0.020 U	0.020 U	0.020 U	0.075	0.020 U	0.032				
<b>TOTAL PETROLEUM HYDROCARBONS (mug/kg)</b> MWPH-DX PH-Diesel Range PH-Cl Range	2000 2000	25 U 50 U	560 U 180	25 U 50 U	25 U 79	25 U 170	25 U 50 U	25 U 50 U	25 U 50 U	25 U 50 U	25 U 50 U	25 U 50 U	25 U 50 U	25 U 150			
<b>MWPH-DX PH-Gasoline Range</b>	100 (8)	NA	3.0 U	3.0 U	NA	3.0 U	NA	3.0 U	NA	NA	NA	NA	NA				
<b>VOLATILES (ug/kg) Method EPA-8260</b>		NA	10 U	10 U	NA	10 U	NA	10 U	NA	10 U	10 U	NA	10 U	NA			
Dichlorodifluoromethane	NA	NA	10 U	10 U	NA	10 U	NA	10 U	NA	10 U	10 U	NA	10 U	NA			
Trichlorofluoromethane	NA	NA	10 U	10 U	NA	10 U	NA	10 U	NA	10 U	10 U	NA	10 U	NA			
Bromoform	NA	NA	10 U	10 U	NA	10 U	NA	10 U	NA	10 U	10 U	NA	10 U	NA			
Chloroethane	NA	NA	10 U	10 U	NA	10 U	NA	10 U	NA	10 U	10 U	NA	10 U	NA			
Carbon Tetrachloride	NA	NA	10 U	10 U	NA	10 U	NA	10 U	NA	10 U	10 U	NA	10 U	NA			
Tetrahydrofuran	NA	NA	10 U	10 U	NA	10 U	NA	10 U	NA	10 U	10 U	NA	10 U	NA			
Acetone	NA	NA	10 U	10 U	NA	10 U	NA	10 U	NA	10 U	10 U	NA	10 U	NA			
1,1-Dichloroethene	NA	NA	10 U	10 U	NA	10 U	NA	10 U	NA	10 U	10 U	NA	10 U	NA			
1,1,1-Trichloroethene	NA	NA	10 U	10 U	NA	10 U	NA	10 U	NA	10 U	10 U	NA	10 U	NA			
1,1,2-Dichloroethane	NA	NA	10 U	10 U	NA	10 U	NA	10 U	NA	10 U	10 U	NA	10 U	NA			
Methyl Tertiary Butyl Ether	NA	NA	10 U	10 U	NA	10 U	NA	10 U	NA	10 U	10 U	NA	10 U	NA			
trans-1,2-Dichloroethene	NA	NA	10 U	10 U	NA	10 U	NA	10 U	NA	10 U	10 U	NA	10 U	NA			
1,2-Dichloroethane	NA	NA	10 U	10 U	NA	10 U	NA	10 U	NA	10 U	10 U	NA	10 U	NA			
Bromoform	NA	NA	10 U	10 U	NA	10 U	NA	10 U	NA	10 U	10 U	NA	10 U	NA			
1,1-Dichloroethene	NA	NA	10 U	10 U	NA	10 U	NA	10 U	NA	10 U	10 U	NA	10 U	NA			
2,2-Dichloropropane	NA	NA	10 U	10 U	NA	10 U	NA	10 U	NA	10 U	10 U	NA	10 U	NA			
Bromoacetonitrile	NA	NA	10 U	10 U	NA	10 U	NA	10 U	NA	10 U	10 U	NA	10 U	NA			
Chloroform	NA	NA	10 U	10 U	NA	10 U	NA	10 U	NA	10 U	10 U	NA	10 U	NA			
1,1,1-Trichloroethane	NA	NA	10 U	10 U	NA	10 U	NA	10 U	NA	10 U	10 U	NA	10 U	NA			
1,1,2-Dichloroethane	NA	NA	10 U	10 U	NA	10 U	NA	10 U	NA	10 U	10 U	NA	10 U	NA			
1,1,2,2-Tetrachloroethane	NA	NA	10 U	10 U	NA	10 U	NA	10 U	NA	10 U	10 U	NA	10 U	NA			
1,1,2,2,2-Pentachloroethane	NA	NA	10 U	10 U	NA	10 U	NA	10 U	NA	10 U	10 U	NA	10 U	NA			
1,1,1,1-Tetrafluoroethane	NA	NA	10 U	10 U	NA	10 U	NA	10 U	NA	10 U	10 U	NA	10 U	NA			
1,1,1,2-Tetrafluoroethane	NA	NA	10 U	10 U	NA	10 U	NA	10 U	NA	10 U	10 U	NA	10 U	NA			
1,1,2,2-Tetrafluoroethane	NA	NA	10 U	10 U	NA	10 U	NA	10 U	NA	10 U	10 U	NA	10 U	NA			
1,1,2,2,2-Pentafluoroethane	NA	NA	10 U	10 U	NA	10 U	NA	10 U	NA	10 U	10 U	NA	10 U	NA			
1,1,1,1,2-Pentafluoroethane	NA	NA	10 U	10 U	NA	10 U	NA	10 U	NA	10 U	10 U	NA	10 U	NA			
1,1,1,2,2-Pentafluoroethane	NA	NA	10 U	10 U	NA	10 U	NA	10 U	NA	10 U	10 U	NA	10 U	NA			
1,1,1,2,2,2-Hexafluoroethane	NA	NA	10 U	10 U	NA	10 U	NA	10 U	NA	10 U	10 U	NA	10 U	NA			
1,1,1,1,2,2-Hexafluoroethane	NA	NA	10 U	10 U	NA	10 U	NA	10 U	NA	10 U	10 U	NA	10 U	NA			
1,1,1,2,2,2-Hexafluoroethane	NA	NA	10 U	10 U	NA	10 U	NA	10 U	NA	10 U	10 U	NA	10 U	NA			

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Landau Associates





**TABLE A-1  
SOIL ANALYTICAL RESULTS  
YAKIMA MILL SITE  
YAKIMA, WASHINGTON**

Location: Depth Lab ID	MPCA Method A Soil Cleanup Levels for Unrestricted Land Uses	Former Plywood Plant Parcels Initial Investigation													
		FPP-B09 (12-13) EVI3080728-22 06/19/2013	FPP-B09 (15-16.5) EVI3080728-21 06/19/2013	FPP-B10 (10-11) EVI3080728-09 06/19/2013	FPP-B10 (15-16) EVI3080728-10 06/19/2013	FPP-B11 (18-19) EVI3080728-08 06/18/2013	FPP-B11 (22-23) EVI3080728-48 06/17/2013	FPP-B12 (6-7) EVI3080728-07 06/17/2013	FPP-B13 (5.5-6.5) EVI3080728-06 06/17/2013	FPP-B13 (12-14.5) EVI3080728-05 06/17/2013	FPP-B14 (14-15) EVI3080728-03 06/17/2013	FPP-B14 (16.5-19.5) EVI3080728-04 06/17/2013	FPP-B15 (13.5-14.5) EVI3080728-02 06/17/2013	FPP-B16 (11.7-12.7) EVI3080728-01 06/17/2013	
Head to toe benzene	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	
Perchloroethylene	NA	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	
Chlorobenzene	NA	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	
Dibromodichloroethane	NA	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	
Trichloroethylene	NA	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	
1,1,1-Trichloroethane	NA	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	
3,3-Dichlorobenzidine	NA	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	250 U	
Barbituric acid/Phthalimide	NA	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	
D,N-Diethylmaleimide	NA	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	
<b>PAHs (mg/kg)</b>															
<b>Method EPA-8270 SM</b>															
Naphthalene	NA	0.074	0.074	0.012	NA	0.14	NA	0.010 U	NA	0.010 U	NA	0.010 U	NA	0.010 U	NA
2-Methylnaphthalene	NA	0.013	0.013	0.010 U	NA	0.012	NA	0.010 U	NA	0.010 U	NA	0.010 U	NA	0.010 U	NA
1-Methylnaphthalene	NA	0.010 U	0.010 U	0.010 U	NA	0.010 U	NA	0.010 U	NA	0.010 U	NA	0.010 U	NA	0.010 U	NA
Total Naphthalenes	5 (B)	0.087	0.087	0.012	NA	0.152	NA	0.010 U	NA	0.010 U	NA	0.010 U	NA	0.010 U	NA
Acenaphthylene	NA	0.029	0.029	0.010 U	NA	0.054	NA	0.010 U	NA	0.010 U	NA	0.010 U	NA	0.010 U	NA
Acenaphthene	NA	0.010 U	0.010 U	0.010 U	NA	0.013	NA	0.010 U	NA	0.010 U	NA	0.010 U	NA	0.010 U	NA
Fluorene	NA	0.010 U	0.010 U	0.010 U	NA	0.014	NA	0.010 U	NA	0.010 U	NA	0.010 U	NA	0.010 U	NA
Anthracene	NA	0.048	0.048	0.010 U	NA	0.078	NA	0.010 U	NA	0.010 U	NA	0.010 U	NA	0.010 U	NA
Fluoranthene	NA	0.038	0.038	0.010 U	NA	0.069	NA	0.010 U	NA	0.010 U	NA	0.010 U	NA	0.010 U	NA
Pyrene	NA	0.046	0.046	0.010 U	NA	0.081	NA	0.010 U	NA	0.010 U	NA	0.010 U	NA	0.010 U	NA
Benz[a]anthracene	NA	0.010 U	0.010 U	0.010 U	NA	0.011	NA	0.010 U	NA	0.010 U	NA	0.010 U	NA	0.010 U	NA
Benzo[a]fluoranthene	NA	0.010 U	0.010 U	0.010 U	NA	0.012	NA	0.010 U	NA	0.010 U	NA	0.010 U	NA	0.010 U	NA
Benzo[b]fluoranthene	NA	0.010 U	0.010 U	0.010 U	NA	0.010 U	NA	0.010 U	NA	0.010 U	NA	0.010 U	NA	0.010 U	NA
Benzo[k]fluoranthene	NA	0.010 U	0.010 U	0.010 U	NA	0.012	NA	0.010 U	NA	0.010 U	NA	0.010 U	NA	0.010 U	NA
Indeno[1,2,3-cd]perylene	NA	0.010 U	0.010 U	0.010 U	NA	0.010 U	NA	0.010 U	NA	0.010 U	NA	0.010 U	NA	0.010 U	NA
Dibenz[a,h]anthracene	NA	0.010 U	0.010 U	0.010 U	NA	0.010 U	NA	0.010 U	NA	0.010 U	NA	0.010 U	NA	0.010 U	NA
Benzo[ghi]perylene	NA	ND	ND	0.010 U	NA	0.014	NA	0.010 U	NA	0.010 U	NA	0.010 U	NA	0.010 U	NA
∑PAH TEQ	0.1	NA	NA	ND	NA	0.014	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>PCBs (mg/kg)</b>															
<b>Method EPA-8082</b>															
PCB-1016	NA	0.10 U	0.10 U	0.10 U	NA	0.10 U	NA	0.10 U	NA	0.10 U	NA	0.10 U	NA	0.10 U	NA
PCB-1038	NA	0.10 U	0.10 U	0.10 U	NA	0.10 U	NA	0.10 U	NA	0.10 U	NA	0.10 U	NA	0.10 U	NA
PCB-1221	NA	0.10 U	0.10 U	0.10 U	NA	0.10 U	NA	0.10 U	NA	0.10 U	NA	0.10 U	NA	0.10 U	NA
PCB-1222	NA	0.10 U	0.10 U	0.10 U	NA	0.10 U	NA	0.10 U	NA	0.10 U	NA	0.10 U	NA	0.10 U	NA
PCB-1246	NA	0.10 U	0.10 U	0.10 U	NA	0.10 U	NA	0.10 U	NA	0.10 U	NA	0.10 U	NA	0.10 U	NA
PCB-1546	NA	0.10 U	0.10 U	0.10 U	NA	0.10 U	NA	0.10 U	NA	0.10 U	NA	0.10 U	NA	0.10 U	NA
PCB-1580	NA	0.10 U	0.10 U	0.10 U	NA	0.10 U	NA	0.10 U	NA	0.10 U	NA	0.10 U	NA	0.10 U	NA
Total PCBs	1	0.10 U	0.10 U	0.10 U	NA	0.10 U	NA	0.10 U	NA	0.10 U	NA	0.10 U	NA	0.10 U	NA
<b>CONVENTIONAL S</b>															
Total Organic Carbon (%) (EPA-8260)	NA	3.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (%) (EPA-8245)	NA	6.39	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Percent Solids (%) (EPA-8203)	NA	73.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

**TABLE A-1**  
**SOIL ANALYTICAL RESULTS**  
**YAKIMA MILL SITE**  
**YAKIMA, WASHINGTON**

EPA Method(s) (mg/kg)	Location: Depth Lab ID	MPCA Method A Soil Cleanup Levels for Unrestricted Land Uses	Former Piywood Plant Parcel's Initial Investigation													
			PPP-B17 (0.5-1.5) EVI13060128-46 06/21/2013	PPP-B17 (16-17) EVI13060128-45 06/21/2013	PPP-B18 (18-5-17.5) EVI13060128-27 06/19/2013	Former Piywood PPP-B19 (11-12) EVI13060128-28 06/19/2013	PPP-B20 (10-11) EVI13060128-33 06/20/2013	PPP-B21 (13-14) EVI13060128-31 06/20/2013	PPP-B22 (12.5-19.5) EVI13060128-30 06/20/2013	PPP-B23 (11.5-12.5) EVI13060128-29 06/20/2013	PPP-B24 (15-16.5) EVI13060128-32 06/20/2013	PPP-B25-S (15-16) EVI13060134-26 06/21/2013	Former Piywood Plant Parcel's PPP-B26-S (15-16) EVI13060134-22 06/21/2013	PPP-B27-S (5-6) EVI13060134-17 06/21/2013	PPP-B28-S (15-16) EVI13060134-52 06/22/2013	PPP-B28a-S (15-16) EVI13060134-44 06/22/2013
<b>TOTAL METALS (mg/kg)</b>																
Asbestos	20		2.5	2.1	1.9	NA	NA	2.4	2.1	2.0	1.9	2.4	2.0	2.0	1.9	2.0
Cadmium	2000		0.50 U	0.50 U	0.50 U	NA	NA	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chromium (VI)	19		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	250		27,000	23,000	6.3	NA	NA	31,000	22,000	22,000	24,000	6.7	40,000	21,000	20,000	21,000
Manganese	240		320	5.0	290	NA	NA	560	340	310	2.9	250	320	250	300	220
Mercury	2		0.055	0.047	0.027	NA	NA	0.079	0.025	0.024	0.031	0.028	0.020 U	0.023	0.15	0.021
<b>TOTAL PETROLEUM HYDROCARBONS (mg/kg)</b>																
MPH-DX	2000		25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
PH-Diesel Range	2000		87	88	190	140	130	50 U	50 U	50 U	50 U	440	50 U	140	1300	6100
PH-Other Range																
MPH-DX	100 (6)		NA	3.0 U	NA	3.0 U	3.0 U	NA	NA	NA	NA	3.0 U	NA	NA	NA	NA
PH-Gasoline Range																
<b>VOLATILES (µg/kg)</b> Method EPA-8260																
Dichlorodifluoromethane	NA		NA	10 U	10 U	10 U	10 U	10 U	NA	NA	10 U	10 U	NA	NA	NA	NA
Trichlorofluoromethane	NA		NA	10 U	10 U	10 U	10 U	10 U	NA	NA	10 U	10 U	NA	NA	NA	NA
Bromochloromethane	NA		NA	10 U	10 U	10 U	10 U	10 U	NA	NA	10 U	10 U	NA	NA	NA	NA
Carbon Tetrachloride	NA		NA	10 U	10 U	10 U	10 U	10 U	NA	NA	10 U	10 U	NA	NA	NA	NA
Trichloroethylene	NA		NA	10 U	10 U	10 U	10 U	10 U	NA	NA	10 U	10 U	NA	NA	NA	NA
1,1-Dichloroethene	NA		NA	10 U	10 U	10 U	10 U	10 U	NA	NA	10 U	10 U	NA	NA	NA	NA
1,2-Dichloroethene	NA		NA	10 U	10 U	10 U	10 U	10 U	NA	NA	10 U	10 U	NA	NA	NA	NA
1,1,1-Trichloroethane	NA		NA	10 U	10 U	10 U	10 U	10 U	NA	NA	10 U	10 U	NA	NA	NA	NA
1,1,2-Dichloroethane	NA		NA	10 U	10 U	10 U	10 U	10 U	NA	NA	10 U	10 U	NA	NA	NA	NA
Bromodibromomethane	NA		NA	10 U	10 U	10 U	10 U	10 U	NA	NA	10 U	10 U	NA	NA	NA	NA
Trans-1,2-Dichloroethene	NA		NA	10 U	10 U	10 U	10 U	10 U	NA	NA	10 U	10 U	NA	NA	NA	NA
Cis-1,2-Dichloroethene	NA		NA	10 U	10 U	10 U	10 U	10 U	NA	NA	10 U	10 U	NA	NA	NA	NA
1,1,1-Trichloroethane	7000		NA	10 U	10 U	10 U	10 U	10 U	NA	NA	10 U	10 U	NA	NA	NA	NA
1,1,2-Trichloroethane	NA		NA	10 U	10 U	10 U	10 U	10 U	NA	NA	10 U	10 U	NA	NA	NA	NA
2-Hexanone	NA		NA	50 U	50 U	50 U	50 U	50 U	NA	NA	50 U	50 U	NA	NA	NA	NA
3-Dichloropropane	NA		NA	10 U	10 U	10 U	10 U	10 U	NA	NA	10 U	10 U	NA	NA	NA	NA
Tetrahydrothiophene	NA		NA	10 U	10 U	10 U	10 U	10 U	NA	NA	10 U	10 U	NA	NA	NA	NA
1,2-Dibromochloroethane	NA		NA	10 U	10 U	10 U	10 U	10 U	NA	NA	10 U	10 U	NA	NA	NA	NA
1,2-Dibromoethane	5		NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	5.0 U	5.0 U	NA	NA	NA	NA
Chlorobenzene	NA		NA	10 U	10 U	10 U	10 U	10 U	NA	NA	10 U	10 U	NA	NA	NA	NA
1,1,1,2-Tetrahydroethane	NA		NA	10 U	10 U	10 U	10 U	10 U	NA	NA	10 U	10 U	NA	NA	NA	NA
Ethylbenzene	6000		NA	10 U	10 U	10 U	10 U	10 U	NA	NA	10 U	10 U	NA	NA	NA	NA
n-Propylbenzene	NA		NA	20 U	20 U	20 U	20 U	20 U	NA	NA	20 U	20 U	NA	NA	NA	NA
m-Xylene	8000 (G)		NA	10 U	10 U	10 U	10 U	10 U	NA	NA	10 U	10 U	NA	NA	NA	NA
p-Xylene	9000 (G)		NA	10 U	10 U	10 U	10 U	10 U	NA	NA	10 U	10 U	NA	NA	NA	NA
Benzene	NA		NA	10 U	10 U	10 U	10 U	10 U	NA	NA	10 U	10 U	NA	NA	NA	NA
Isopropylbenzene	NA		NA	10 U	10 U	10 U	10 U	10 U	NA	NA	10 U	10 U	NA	NA	NA	NA
1,1,2,2-Tetrahydroethane	NA		NA	10 U	10 U	10 U	10 U	10 U	NA	NA	10 U	10 U	NA	NA	NA	NA



**TABLE A-1  
SOIL ANALYTICAL RESULTS  
YAKIMA MILL SITE  
YAKIMA, WASHINGTON**

Location: Depth Lab ID	MPCA Method A Soil Cleanup Levels for Unrestricted Land Uses	Former Plywood Plant Parcel's Initial Investigation										Former Plywood Plant Parcel's Supplemental Investigation			
		PPP-B17 (0.5-1.5) EVI13060128-46 06/21/2013	PPP-B17 (16-17) EVI13060128-45 06/21/2013	PPP-B18 (16.5-17.5) EVI13060128-27 06/19/2013	PPP-B19 (11-12) EVI13060128-28 06/19/2013	PPP-B20 (10-11) EVI13060128-33 06/20/2013	PPP-B21 (13-14) EVI13060128-31 06/20/2013	PPP-B22 (12.5-13.5) EVI13060128-30 06/20/2013	PPP-B23 (11.5-12.5) EVI13060128-29 06/20/2013	PPP-B24 (15-16.5) EVI13060128-32 06/20/2013	PPP-B25-S (15-16) EVI13060134-26 06/21/2013	PPP-B26-S (15-16) EVI13060134-22 06/21/2013	PPP-B27-S (5-6) EVI13060134-17 06/21/2013	PPP-B28-S (15-16) EVI13060134-52 06/22/2013	PPP-B28a-S (15-16) EVI13060134-44 06/22/2013
Hardwood storage area	NA	100 U	100 U	NA	NA	100 U	NA	NA	NA	100 U	NA	NA	NA	NA	NA
Perforated floor panel	NA	500 U	100 U	NA	NA	100 U	NA	NA	NA	100 U	NA	NA	NA	NA	NA
Chloroacetic acid	NA	100 U	100 U	NA	NA	100 U	NA	NA	NA	100 U	NA	NA	NA	NA	NA
Di-n-butyltin dihalide	NA	100 U	100 U	NA	NA	100 U	NA	NA	NA	100 U	NA	NA	NA	NA	NA
Di-n-butyltin dihalide	NA	100 U	100 U	NA	NA	100 U	NA	NA	NA	100 U	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	NA	250 U	250 U	NA	NA	250 U	NA	NA	NA	250 U	NA	NA	NA	NA	NA
Barbit-Ethylhexyl-Phthalate	NA	130 U	130 U	NA	NA	130 U	NA	NA	NA	130 U	NA	NA	NA	NA	NA
Di-n-Octylphthalate	NA	100 U	100 U	NA	NA	100 U	NA	NA	NA	100 U	NA	NA	NA	NA	NA
<b>PAHs (mg/Kg)</b>															
<b>Method: EPA-8270 SIM</b>															
Naphthalene	NA	0.030	0.010 U	NA	NA	0.010 U	NA	NA	NA	0.014	NA	NA	NA	NA	NA
2-Methylnaphthalene	NA	0.010 U	0.010 U	NA	NA	0.010 U	NA	NA	NA	0.010 U	NA	NA	NA	NA	NA
1-Methylnaphthalene	NA	0.010 U	0.030	NA	NA	0.010 U	NA	NA	NA	0.014	NA	NA	NA	NA	NA
Toluene	5 (B)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	NA	0.011	0.010 U	NA	NA	0.010 U	NA	NA	NA	0.010 U	NA	NA	NA	NA	NA
Acenaphthene	NA	0.010 U	0.010 U	NA	NA	0.010 U	NA	NA	NA	0.010 U	NA	NA	NA	NA	NA
Fluorene	NA	0.018	0.018	NA	NA	0.012	NA	NA	NA	0.015	NA	NA	NA	NA	NA
Anthracene	NA	0.016	0.016	NA	NA	0.015	NA	NA	NA	0.012	NA	NA	NA	NA	NA
Fluoranthene	NA	0.020	0.013	NA	NA	0.013	NA	NA	NA	0.015	NA	NA	NA	NA	NA
Pyrene	NA	0.010 U	0.010 U	NA	NA	0.010 U	NA	NA	NA	0.010 U	NA	NA	NA	NA	NA
Benz[a]anthracene	NA	0.010 U	0.010 U	NA	NA	0.010 U	NA	NA	NA	0.010 U	NA	NA	NA	NA	NA
Benzo[a]fluoranthene	NA	0.010 U	0.010 U	NA	NA	0.010 U	NA	NA	NA	0.010 U	NA	NA	NA	NA	NA
Benzo[b]fluoranthene	NA	0.010 U	0.010 U	NA	NA	0.010 U	NA	NA	NA	0.010 U	NA	NA	NA	NA	NA
Indeno[1,2,3-cd]perylene	NA	0.010 U	0.010 U	NA	NA	0.010 U	NA	NA	NA	0.010 U	NA	NA	NA	NA	NA
Dibenz[a,h]anthracene	NA	0.010 U	0.010 U	NA	NA	0.010 U	NA	NA	NA	0.010 U	NA	NA	NA	NA	NA
Benzo[ghi]perylene	NA	ND	ND	NA	NA	ND	NA	NA	NA	ND	NA	NA	NA	NA	NA
5-PAH TEQ	0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>PCBs (mg/Kg)</b>															
<b>Method: EPA-8082</b>															
PCB-1016	NA	NA	NA	NA	NA	0.10 U	NA	NA	NA	0.10 U	NA	NA	NA	NA	0.10 U
PCB-1038	NA	NA	NA	NA	NA	0.10 U	NA	NA	NA	0.10 U	NA	NA	NA	NA	0.10 U
PCB-1221	NA	NA	NA	NA	NA	0.10 U	NA	NA	NA	0.10 U	NA	NA	NA	NA	0.10 U
PCB-1222	NA	NA	NA	NA	NA	0.10 U	NA	NA	NA	0.10 U	NA	NA	NA	NA	0.10 U
PCB-1246	NA	NA	NA	NA	NA	0.10 U	NA	NA	NA	0.10 U	NA	NA	NA	NA	0.10 U
PCB-1546	NA	NA	NA	NA	NA	0.10 U	NA	NA	NA	0.10 U	NA	NA	NA	NA	0.10 U
PCB-1560	NA	NA	NA	NA	NA	0.10 U	NA	NA	NA	0.10 U	NA	NA	NA	NA	0.10 U
Total PCBs	1	NA	NA	NA	NA	0.10 U	NA	NA	NA	0.10 U	NA	NA	NA	NA	0.10 U
<b>CONVENTIONAL S</b>															
Total Organic Carbon (%) (EPA-8260)	NA	NA	NA	NA	NA	7.89	NA	NA	0.10 U	2.2	NA	NA	NA	NA	NA
Total Suspended Solids (EPA-8245)	NA	NA	NA	NA	NA	8.33	NA	NA	8.33	8.10	NA	NA	NA	NA	NA
Percent Solids (%) (EPA-8203)	NA	NA	NA	NA	NA	93.2	NA	NA	93.2	78.1	NA	NA	NA	NA	NA





**TABLE A-1  
SOIL ANALYTICAL RESULTS  
YAKIMA MILL SITE  
YAKIMA, WASHINGTON**

Location: Depth Lab ID	MPCA Method A EVI 30801-34-86 Soil Cleanup Levels for Investigative Land Uses	Former Plywood Plant Parcels Supplemental Investigation										Teanique Parcel Initial Investigation					
		FPP-B29C-S (15-16) EVI 30801-34-86 08/23/2013	FPP-B29C-S (15-16) EVI 30801-34-86 08/23/2013	FPP-B30-S (14-15) EVI 30801-34-40 08/22/2013	FPP-B31-S (15-16) EVI 30801-34-89 08/22/2013	FPP-B32-S (15-16) EVI 30801-34-48 08/22/2013	FPP-B33-S (10-11) EVI 30801-34-85 08/22/2013	FPP-B34-S (15-16) EVI 30801-34-33 08/22/2013	FPP-MW-1-S (8-5-9) EVI 30801-34-08 08/20/2013	FPP-MW-2-S (8-5-9) EVI 30801-34-12 08/20/2013	FPP-MW-3-S (13-5-14-5) EVI 30801-34-16 08/20/2013	TP-B01 (1-2) EVI 30801-28-47 08/21/2013	TP-B01 (6-5-7-5) EVI 30801-28-39 08/21/2013	TP-B02 (13-14) EVI 30801-28-38 08/20/2013	TP-B03 (15-16) EVI 30801-28-37 08/20/2013		
Head to toe zone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Perchloroethylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Dibromodichloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Trichloroethylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
1,1-Dichloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
3,3-Dichlorobenzidine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Barbit-Ethylhexylphenylsulfate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
D,N-Diethylmaleimide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
<b>PAHs (mg/kg)</b>																	
<b>Method: EPA-8270 SIM</b>																	
Naphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Naphthalenes	5 (B)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benz[a]anthracene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo[a]fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzofluoranthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno[1,2,3-cd]perylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz[a,h]anthracene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo[ghi]perylene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo[k]fluoranthene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
7,8-Diethyl-7H-benzofluoranthene	0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>PCBs (mg/kg)</b>																	
<b>Method: EPA-8082</b>																	
PCB-1018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-1938	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-121	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-122	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-124	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-1246	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-154	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-1544	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-1780	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>CONVENTIONAL S</b>																	
Total Organic Carbon (%) (EPA-8260)	NA	NA	2.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Inorganic Carbon (%) (EPA-8260)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Solids (EPA-8245)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Percent Solids (%) (EPA-180.3)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA



**TABLE A-1  
SOIL ANALYTICAL RESULTS  
YAKIMA MILL SITE  
YAKIMA, WASHINGTON**

Location: Depth Lab ID	MPCA Method A Soil Cleanup Levels for Unrestricted Land Uses	Triangler Parcel Initial Investigation										Triangler Parcel Supp. Invest.	
		TP-B04 (2-3) EVI3060728-34 06/20/2013	TP-B04B (11.5-13) EVI3060728-35 06/20/2013	TP-B06 (13.5-14) EVI3060728-36 06/20/2013	TP-B07 (14-15) EVI3060728-40 06/21/2013	TP-B08 (7-8) EVI3060728-44 06/21/2013	TP-B08 (16-17.5) EVI3060728-43 06/21/2013	TP-B09 (6-7) EVI3060728-42 06/21/2013	TP-B09 (13-14) EVI3060728-41 06/21/2013	TP-MW-1-S (13.5-14.5) EVI3060734-03 06/19/2013	TP-MW-2-S (14-15) EVI3060734-06 06/19/2013		
<b>TOTAL METALS (mg/kg)</b>													
Asbestos	20	5.9	1.8	4.4	3.1	2.7	2.5	4.5	2.1	2.1	2.3		
Cadmium	2000	0.90 U	0.90 U	0.90 U	0.90 U	0.90 U	0.90 U	0.90 U	0.90 U	0.90 U	0.90 U		
Chromium (VI)	19	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Lead	250	33,000	24,000	7.4	32,000	16,000	24,000	28,000	3.2	7.7	21,000		
Manganese	2	28	3.4	300	8.0	6.9	4.9	430	170	300	240		
Mercury		1,200	0.023	0.094	0.076	0.038	0.095	0.055	0.092	0.025	0.021		
<b>TOTAL PETROLIUM HYDROCARBONS (mg/kg)</b>													
MWPH-DX TPH-Diesel Range	2000	35 U	50 U	30 U	29 U	25 U	360	29 U	27 U	25 U	48		
MWPH-OX TPH-Gasoline Range	100 (8)	510	1700	61	76	180	50 U	130	59	50 U	50 U		
<b>VOLATILES (µg/kg) Method EPA 8260</b>													
Dichlorodifluoromethane	NA	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U		
Dichloromethane	NA	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U		
Bromochloromethane	NA	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U		
Carbon Tetrachloride	NA	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U		
Trichloroethylene	NA	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U		
1,1,1-Trichloroethane	NA	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U		
1,1,2-Trichloroethane	NA	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U		
1,1,2,2-Tetrachloroethane	NA	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U		
1,1,1,1-Tetrafluoroethane	NA	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U		
1,1,2,2,2-Pentafluoroethane	NA	10 U	10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	10 U		
Acrylonitrile	20	NA	50 U	NA	50 U	NA	50 U	NA	50 U	NA	50 U		
Methyl Ethyl Ether	NA	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U		
Trans-1,2-Dichloroethene	NA	10 U	10 U	NA	10 U	10 U	10 U	NA	10 U	NA	10 U		
1,1-Dichloroethene	NA	10 U	10 U	NA	10 U	10 U	10 U	NA	10 U	NA	10 U		
2,2-Dichloropropane	NA	10 U	10 U	NA	10 U	10 U	10 U	NA	10 U	NA	10 U		
Bromochloroethane	NA	10 U	10 U	NA	10 U	10 U	10 U	NA	10 U	NA	10 U		
Chloroform	2000	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U		
1,1,1-Trichloroethane	NA	10 U	10 U	NA	10 U	10 U	10 U	NA	10 U	NA	10 U		
1,1,2-Dichloroethane	NA	10 U	10 U	NA	10 U	10 U	10 U	NA	10 U	NA	10 U		
1,2-Dichloroethane	30	NA	50 U	NA	50 U	NA	50 U	NA	50 U	NA	50 U		
1,2-Dichloropropane	NA	10 U	10 U	NA	10 U	10 U	10 U	NA	10 U	NA	10 U		
Dibromomethane	NA	10 U	10 U	NA	10 U	10 U	10 U	NA	10 U	NA	10 U		
Bromodichloromethane	NA	10 U	10 U	NA	10 U	10 U	10 U	NA	10 U	NA	10 U		
Trans-1,3-Dichlorobutene	NA	10 U	10 U	NA	10 U	10 U	10 U	NA	10 U	NA	10 U		
1,1,1,2-Tetrahydrocyclopentadiene	7000	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U		
Cis-1,3-Dichlorocyclopentadiene	NA	10 U	10 U	NA	10 U	10 U	10 U	NA	10 U	NA	10 U		
1,1,2,2-Tetrachloroethane	NA	10 U	10 U	NA	10 U	10 U	10 U	NA	10 U	NA	10 U		
2-Hexanone	NA	50 U	10 U	NA	50 U	NA	50 U	NA	50 U	NA	50 U		
3-Dichloropropane	NA	10 U	10 U	NA	10 U	10 U	10 U	NA	10 U	NA	10 U		
Tetrahydrothiophene	50	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U		
1,2-Dichlorobenzene	5	NA	50 U	NA	50 U	NA	50 U	NA	50 U	NA	50 U		
Chlorobenzene	NA	10 U	10 U	NA	10 U	10 U	10 U	NA	10 U	NA	10 U		
1,1,1,2-Tetrachloroethane	NA	10 U	10 U	NA	10 U	10 U	10 U	NA	10 U	NA	10 U		
Ethylbenzene	6000	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U		
m,p-Xylene	8000 (G)	NA	20 U	NA	20 U	NA	20 U	NA	20 U	NA	20 U		
Styrene	NA	10 U	10 U	NA	10 U	10 U	10 U	NA	10 U	NA	10 U		
1,2,4-Trichlorobenzene	NA	10 U	10 U	NA	10 U	10 U	10 U	NA	10 U	NA	10 U		
Benzofuran	9000 (G)	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U		
Isopropylbenzene	NA	10 U	10 U	NA	10 U	10 U	10 U	NA	10 U	NA	10 U		
1,1,2,2-Tetrachloroethane	NA	10 U	10 U	NA	10 U	10 U	10 U	NA	10 U	NA	10 U		

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**TABLE A-1  
SOIL ANALYTICAL RESULTS  
YAKIMA MILL SITE  
YAKIMA, WASHINGTON**

Location: Depth Lab ID	MPCA Method A Soil Cleanup Levels for Unrestricted Land Uses	Triangular Parcel Initial Investigation										Triangular Parcel Supp. Invest.	
		TP-B04 (2-3) EVI3060726-24 09/20/2013	TP-B04B (11-5-13) EVI3060726-35 09/20/2013	TP-B06 (13-5-14) EVI3060726-36 09/20/2013	TP-B07 (14-1-13) EVI3060726-40 09/21/2013	TP-B08 (7-8) EVI3060726-44 09/21/2013	TP-B08 (16-17-5) EVI3060726-43 09/21/2013	TP-B09 (6-7) EVI3060726-42 09/21/2013	TP-B09 (13-14) EVI3060726-41 09/21/2013	TP-MW-1-S (13-5-14-5) EVI3060734-03 09/19/2013	TP-MW-2-S (14-1-5) EVI3060734-08 09/19/2013		
Heard Road/Porter	NA	100 U	NA	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	NA	NA
Porter Road	NA	500 U	NA	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	NA	NA
CH-1-BVD1/Thalite	NA	100 U	NA	110 U	110 U	NA	100 U	100 U	100 U	100 U	100 U	NA	NA
CH-1-BVD2/Thalite	NA	100 U	NA	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	NA	NA
3,3-Dichlorobenzidine	NA	250 U	NA	270 U	270 U	NA	250 U	250 U	250 U	250 U	250 U	NA	NA
Bar-Z-Ethylhexyl/Phthalate	NA	130 U	NA	130 U	130 U	130 U	130 U	130 U	130 U	130 U	130 U	NA	NA
D-N-Octylphthalate	NA	100 U	NA	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	NA	NA
<b>PAHs (mg/Kg)</b> <b>Method EPA-8270 SIM</b>													
Naphthalene	NA	0.010 U	NA	0.059	0.010 U	NA	0.021	NA	0.070	NA	0.070	NA	NA
2-Methylnaphthalene	NA	0.010 U	NA	0.010 U	0.010 U	NA	0.010 U	NA	0.012	NA	0.012	NA	NA
1-Methylnaphthalene	NA	0.010 U	NA	0.010 U	0.010 U	NA	0.010 U	NA	0.011	NA	0.011	NA	NA
Total Naphthalenes	5 (B)	0.010 U	NA	0.029	0.029	NA	0.021	NA	0.093	NA	0.093	NA	NA
Acenaphthylene	NA	0.010 U	NA	0.025	0.010 U	NA	0.010 U	NA	0.032	NA	0.032	NA	NA
Acenaphthene	NA	0.010 U	NA	0.010 U	0.010 U	NA	0.010 U	NA	0.010 U	NA	0.010 U	NA	NA
Fluorene	NA	0.010 U	NA	0.013	0.013	NA	0.013	NA	0.040	NA	0.040	NA	NA
Anthracene	NA	0.010 U	NA	0.010 U	0.010 U	NA	0.010 U	NA	0.010 U	NA	0.010 U	NA	NA
Fluoranthene	NA	0.010 U	NA	0.045	0.045	NA	0.010 U	NA	0.028	NA	0.028	NA	NA
Pyrene	NA	0.010 U	NA	0.051	0.051	NA	0.012	NA	0.030	NA	0.030	NA	NA
Benz[a]anthracene	NA	0.010 U	NA	0.020	0.020	NA	0.010 U	NA	0.010 U	NA	0.010 U	NA	NA
Benzo[a]fluoranthene	NA	0.010 U	NA	0.018	0.018	NA	0.010 U	NA	0.010 U	NA	0.010 U	NA	NA
Benzo[b]fluoranthene	NA	0.010 U	NA	0.015	0.015	NA	0.010 U	NA	0.010 U	NA	0.010 U	NA	NA
Benzo[k]fluoranthene	NA	0.010 U	NA	0.022	0.022	NA	0.010 U	NA	0.010 U	NA	0.010 U	NA	NA
Indeno[1,2,3-cd]Pyrene	NA	0.010 U	NA	0.016	0.016	NA	0.010 U	NA	0.010 U	NA	0.010 U	NA	NA
Dibenz[a,h]anthracene	NA	0.010 U	NA	0.010 U	0.010 U	NA	0.010 U	NA	0.010 U	NA	0.010 U	NA	NA
Benzo[ghi]perylene	NA	0.010 U	NA	0.018	0.018	NA	0.010 U	NA	0.010 U	NA	0.010 U	NA	NA
7-PAH TEQ	0.1	NA	ND	NA	0.029	NA	ND	NA	ND	NA	ND	NA	NA
<b>PCBs (mg/Kg)</b> <b>Method EPA-8082</b>													
PCB-1016	NA	0.10 U	NA	NA	NA	NA	0.10 U	NA	0.10 U	NA	0.10 U	NA	NA
PCB-1268	NA	0.10 U	NA	NA	NA	NA	0.10 U	NA	0.10 U	NA	0.10 U	NA	NA
PCB-1221	NA	0.10 U	NA	NA	NA	NA	0.10 U	NA	0.10 U	NA	0.10 U	NA	NA
PCB-1222	NA	0.10 U	NA	NA	NA	NA	0.10 U	NA	0.10 U	NA	0.10 U	NA	NA
PCB-1248	NA	0.10 U	NA	NA	NA	NA	0.10 U	NA	0.10 U	NA	0.10 U	NA	NA
PCB-1246	NA	0.10 U	NA	NA	NA	NA	0.10 U	NA	0.10 U	NA	0.10 U	NA	NA
PCB-1524	NA	0.10 U	NA	NA	NA	NA	0.10 U	NA	0.10 U	NA	0.10 U	NA	NA
PCB-1520	NA	0.10 U	NA	NA	NA	NA	0.10 U	NA	0.10 U	NA	0.10 U	NA	NA
Total PCBs	1	0.10 U	NA	NA	NA	NA	0.10 U	NA	0.10 U	NA	0.10 U	NA	NA
<b>CONVENTIONAL S</b> <b>Method EPA-8060</b>													
Total Petroleum Carbon (%) (EPA-8060)	NA	1.9	NA	1.6	NA	NA	NA	NA	4.2	NA	4.2	NA	NA
Total Sulphur (EPA-8045)	NA	NA	NA	NA	NA	NA	NA	NA	6.29	NA	6.29	NA	NA
Percent Solids (%) (EPA-8003)	NA	92.0	NA	61.4	NA	NA	NA	NA	71.4	NA	71.4	NA	NA

(a) = Value is used when benzene is not present.  
 (b) = Value is used when naphthalene, 1-methylnaphthalene, and 2-methylnaphthalene.  
 (c) = Value is used when acenaphthylene, acenaphthene, fluorene, and fluorene.  
 U = Indicates the compound was not detected at the reported concentration.  
 J = Indicates the analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.  
 UJ = The analyte was not detected in the sample; the reported sample reporting limit is an estimate.  
 NA = Not analyzed.  
 ND = Not detected.  
 Bold = Exceedance of Cleanup/Screening Level.

**TABLE A-2  
 LANDFILL GAS MEASUREMENTS  
 YAKIMA MILL SITE  
 YAKIMA, WASHINGTON**

Location	Date Collected	% Oxygen	Methane		CO (ppm)	CO <sub>2</sub> (2%)	H <sub>2</sub> S (ppm)
			%LEL	% Vol.			
G-01	6/17/2013	0.0	>>	31.4	0	26.4	1
G-02	6/17/2013	16.1	0	0	1	3.2	0
G-03	6/17/2013	8.4	0	0	22	8.7	1
G-04	6/17/2013	13.4	0	0	32	5.4	1



**TABLE A-3  
GROUNDWATER ANALYTICAL RESULTS  
YAKIMA MILL SITE  
YAKIMA, WASHINGTON**

Location: Depth: Lab ID: Date Collected:	MTCM Method A Cleanup Levels for Groundwater	Screening Levels		FPP-B01 17 EV13060128-53 06/18/2013	FPP-B02 19 EV13060104-04 06/18/2013	FPP-B03 17 EV13060128-60 06/18/2013	FPP-B04 15 EV13060128-56 06/18/2013	FPP-B05 18 EV13060104-07 06/19/2013	Former Plywood Plant FPP-B07 17 EV13060104-06 06/19/2013	FPP-B08 17 EV13060128-52 06/18/2013	FPP-B09 18 EV13060104-05 06/19/2013	FPP-B11 18 EV13060128-55 06/18/2013	FPP-B12 18 EV13060104-03 06/17/2013	FPP-B13 13 EV13060104-02 06/17/2013	FPP-B15 18 EV13060104-01 06/17/2013	
		Minimum Screening Level (Groundwater as Drinking Water) Unless Otherwise Indicated	0.2													
	1000		0.5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,1,2-Trichloroethane		2.0 U		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
2-Hexanone		10 U		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene	5	2.0 U		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
tetrachloroethylene	10	2.0 U		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Dibromochloroethane	0.01	0.010 U		0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
1,1,2,2-Tetrachloroethane	700	2.0 U		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,1,2,2-Tetrachloroethane	1000 (G)	4.0 U		4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
Styrene	1000 (G)	2.0 U		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	1000 (G)	2.0 U		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Bromobenzene		2.0 U		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2,3-Trichlorobenzene		2.0 U		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2,3-Trichlorobenzene		2.0 U		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,3,5-Trimethylbenzene		2.0 U		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1-Chlorobutane		2.0 U		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,4-Dichlorobenzene		2.0 U		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dichlorobenzene		10 U		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene		2.0 U		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Hexachlorocyclopentadiene		2.0 U		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Naphthalene		2.0 U		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2,3-Trichlorobenzene		2.0 U		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
<b>VOLATILES (µg/L)</b>																
<b>Method EPA-8260 SIM</b>		0.2		0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U
Trichloroethylene	5	0.020 U		0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U
<b>SEMI-VOLATILES (µg/L)</b>																
<b>Method EPA-8270</b>																
Pyridine		2.0 U		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
N-Nitrosodimethylamine		2.0 U		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Phenol		2.0 U		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Aniline		2.0 U		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Bis(2-Chloroethyl) Ether		2.0 U		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
n-Propylamine		2.0 U		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,3-Dichlorobenzene		2.0 U		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,4-Dichlorobenzene		2.0 U		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Benzyl Alcohol		2.0 U		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dichloroethane		2.0 U		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
2-Methylphenol		2.0 U		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Bis(2-Chloroisopropyl) Ether		2.0 U		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
3,4-Dimethylphenol		2.0 U		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
N-Nitroso-Di-N-Propylamine		2.0 U		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Hexachlorocyclopentadiene		2.0 U		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Nitrobenzene		2.0 U		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
2-Nitrophenol		2.0 U		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
2,4-Dimethylphenol		2.0 U		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U



**TABLE A-3  
GROUNDWATER ANALYTICAL RESULTS  
YAKIMA MILL SITE  
YAKIMA, WASHINGTON**

PAHs (ug/L) Method EPA-8270 SIM	Location:		Screening Levels		Former Plywood Plant Parcels Initial Investigation														
	Depth: Lab ID: Cleaning Levels for Date Collected:	MTCM Method A Groundwater	Minimum Screening Level (Groundwater as Drinking Water) Unless Otherwise Indicated		FPP-B01 17 EVI3060128-53 06/18/2013	FPP-B02 19 EVI3060104-04 06/19/2013	FPP-B03 17 EVI3060128-60 06/18/2013	FPP-B04 15 EVI3060128-56 06/18/2013	FPP-B05 18 EVI3060104-07 06/19/2013	FPP-B07 17 EVI3060104-06 06/19/2013	FPP-B08 17 EVI3060128-52 06/18/2013	FPP-B09 18 EVI3060104-05 06/19/2013	FPP-B11 18 EVI3060128-55 06/18/2013	FPP-B12 18 EVI3060104-03 06/17/2013	FPP-B13 13 EVI3060104-02 06/17/2013	FPP-B15 18 EVI3060104-01 06/17/2013			
Naphthalene					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
2-Methylnaphthalene					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
1-Methylnaphthalene					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Total Naphthalenes					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Acenaphthylene					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Fluorene					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Benzo[a]fluorene					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Fluoranthene					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Pyrene					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Benzo[a]Anthracene					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Chrysene					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Benzo[b]Fluoranthene					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Benzo[k]Fluoranthene					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Benzo[a]Pyrene					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Benzo[a]Crypyrene					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Benzo[e]Crypyrene					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Benzo[b]Krypyrene					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Benzo[i]Perylene					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Benzo[ghi]Perylene					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
PAHs TEC					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
<b>PCBs (ug/L)</b>																			
Method EPA-8082																			
PCB-1016					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
PCB-1268					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
PCB-1221					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
PCB-1222					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
PCB-1248					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
PCB-1249					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
PCB-1254					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
PCB-1280					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Total PCBs				0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
<b>CONVENTIONALS (mg/L)</b>																			
Total Dissolved Solids (SM2540C)					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Total Organic Carbon (SM510C)					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
<b>FIELD PARAMETERS</b>																			
pH					6.5	6.5	6.49	6.73	6.78	6.30	6.00	5.86	6.03	6.71	6.13	5.79	6.15		





**TABLE A-3  
GROUNDWATER ANALYTICAL RESULTS  
YAKIMA MILL SITE  
YAKIMA, WASHINGTON**

Location: Depth: Lab ID: Date Collected:	MPCA Method A Cleanup Levels for Groundwater	Screening Levels Minimum Screening Level (Groundwater as Drinking Water) Unless Otherwise Indicated	Former Plywood Plant Parcels Initial Investigation											
			FPP-B17 17 EVI3060126-56 06/21/2013	FPP-B19 17 EVI3060128-49 06/19/2013	FPP-B20 11 EVI3060128-51 06/20/2013	FPP-B24 16 EVI3060128-50 06/20/2013	NW-9A-01 EVI3060119-02 06/20/2013	NW-12-01 EVI3060119-01 06/20/2013	FPP-B25 18,5 EVI3060134-64 08/21/2013	FPP-B26 19,5 EVI3060134-63 08/21/2013	FPP-B27 16 EVI3060134-62 08/21/2013	Former Plywood Plant Parcels Supplemental Investigation		
											FPP-B28 19 EVI3060134-72 08/23/2013	FPP-B29 19 EVI3060134-73 08/23/2013	FPP-B31 19 EVI3060134-66 08/22/2013	
1,2-Dichloroethane	1000	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	
1,1,2-Trichloroethane		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	
2-Hexanone		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
1,3-Dichloropropane		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	
tetrahaloethylene	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	
Dibromochloromethane	10	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	
1,2-Dibromobenzene	0.01	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	
1,1,2-Trichloroethane		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	
Ethylbenzene	700	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	
m,p-Xylene	1000 (6)	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	
Styrene		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	
o-Xylene	1000 (6)	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	
Bromobenzene		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	
Isopropylbenzene		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	
1,1,2,2-Tetrachloroethane		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	
1,2,3-Trichloropropane		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	
1,2-Dibromobenzene		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	
1,2-Dibromobenzene		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	
1,2-Dichlorobenzene		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
1,2,4-Trichlorobenzene		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	
1,2,4-Trichlorobenzene		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	
Hexachlorocyclopentadiene		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	
Naphthalene		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	
1,2,3-Trichlorobenzene		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	
<b>VOLATILES (u/l)</b>														
<b>Method EPA-8260 SIM</b>														
Trichloroethene	0.2	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U
Trichloroethene	5	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U
<b>SEMI-VOLATILES (u/l)</b>														
<b>Method EPA-8270</b>														
Pyridine		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
N-Nitrosodimethylamine		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Phenol		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Aniline		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Bis(2-Chloroethyl)Ether		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
2-Nitrophenol		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,3-Dichlorobenzene		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,4-Dichlorobenzene		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Benzyl Alcohol		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dichloroethene		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
2-Methylphenol		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Bis(2-Chloroethoxy)Ether		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
3,4-Dimethylphenol		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
N-Nitroso-Di-N-Propylamine		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Hexachlorocyclopentadiene		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Nitrobenzene		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
2-Nitrophenol		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
2,4-Dimethylphenol		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U

TABLE A-3  
GROUNDWATER ANALYTICAL RESULTS  
YAKIMA MILL SITE  
YAKIMA, WASHINGTON

Location: Depth: Lab ID: Date Collected:	Screening Levels		Former Plywood Plant Parcels Initial Investigation											
	MTCMA Method A Cleanup Levels for Groundwater	Minimum Screening Level (Groundwater as Drinking Water) Unless Otherwise Indicated	FPP-B17 17 EVI3060128-58 08/21/2013	FPP-B19 17 EVI3060128-49 08/19/2013	FPP-B20 11 EVI3060128-51 09/20/2013	FPP-B24 16 EVI3060128-50 06/20/2013	MM-9A-01 EVI3060119-02 09/20/2013	MM-12-01 EVI3060119-01 06/20/2013	FPP-B25 18.5 EVI3060134-64 08/21/2013	FPP-B26 19.5 EVI3060134-63 08/21/2013	FPP-B27 16 EVI3060134-62 08/21/2013	Former Plywood Plant Parcels Supplemental Investigation		
												FPP-B28 19 EVI3060134-72 08/23/2013	FPP-B29b 19 EVI3060134-73 08/23/2013	FPP-B31 19 EVI3060134-66 08/22/2013
Benzic Acid			2.0 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	NA	NA	NA	NA
2,4-Dichlorophenol			2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	NA	NA	NA
1,2,4-Trichlorobenzene			2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	NA	NA	NA
Naphthalene			2.0 U	NA	2.0 U	2.0 U	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline			2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	NA	NA	NA
2,6-Dichlorophenol			2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	NA	NA	NA
2,6-Dichlorobenzene			2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	NA	NA	NA
1-Methylpiperazine			2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	NA	NA	NA
1-Hydroxypiperazine			2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	NA	NA	NA
Hexachlorocyclopentadiene			2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	NA	NA	NA
2,4,6-Trichlorophenol			2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	NA	NA	NA
2,4,5-Trichlorophenol			2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	NA	NA	NA
2-Chloronaphthalene			2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	NA	NA	NA
2-Nitroaniline			2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	NA	NA	NA
Acenaphthylene			2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	NA	NA	NA
Acenaphthene			2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	NA	NA	NA
2,8-Dinitrofluorene			2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	NA	NA	NA
3-Nitroaniline			5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	NA	NA
2,4-Dinitrophenol			10 U	NA	10 U	10 U	10 U	10 U	10 U	10 U	NA	NA	NA	NA
4-Nitrophenol			2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	NA	NA	NA
Dibenzofuran			2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	NA	NA	NA
2,4-Dinitrofluorene			2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	NA	NA	NA
2,3,4,6-Tetrachlorophenol			2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	NA	NA	NA
Dibenzophthalate			2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	NA	NA	NA
Toluene			2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	NA	NA	NA
1,4-Dichlorobenzene			2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	NA	NA	NA
1,6-Dinitro-2-Methylphenol			2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	NA	NA	NA
N,N-Dimethyldiphenylamine			2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	NA	NA	NA
Acetanilide			2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	NA	NA	NA
4-Bromobenzyl-Phenyldiethyl			2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	NA	NA	NA
Hexachlorobenzene			2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	NA	NA	NA
Pentafluorobenzene			5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	NA	NA
Phenanthrene			2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	NA	NA	NA
Anthracene			2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	NA	NA	NA
Carbazole			2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	NA	NA	NA
2,6-Dichlorophthalate			2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	NA	NA	NA
Phenylacetylene			2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	NA	NA	NA
Pyrene			2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	NA	NA	NA
Butylbenzophthalate			2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	NA	NA	NA
3,3-Dichlorobenzidine			2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	NA	NA	NA
Benzofuran			2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	NA	NA	NA
Chrysene			2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	NA	NA	NA
2,6-Diethylhexyl-Phthalate			6.0	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	NA	NA	NA
D,N-Octylphthalate			2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	NA	NA	NA
Benzofuran			2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	NA	NA	NA
Benzofuran			2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	NA	NA	NA
Indenol (2,3-Cd)Pyrene			2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	NA	NA	NA
Dibenzofuran			2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	NA	NA	NA
Benzofuran			2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	NA	NA	NA

**TABLE A-3  
GROUNDWATER ANALYTICAL RESULTS  
YAKIMA MILL SITE  
YAKIMA, WASHINGTON**

PAHs (ug/L) Method EPA-8270 SIM	Location: Depth: Lab ID: Cleanup Levels for Date Collected:	Screening Levels		Former Plywood Plant Parcel Initial Investigation												
		Minimum Screening Level (Groundwater as Drinking Water) Unless Otherwise Indicated		FPP-B17 17 EVI3060128-88 08/21/2013	FPP-B19 17 EVI3060128-49 08/19/2013	FPP-B20 11 EVI3060128-51 09/20/2013	FPP-B24 16 EVI3060128-50 06/20/2013	MMW-9A-01 MMW-9A-01 EVI3060119-02 09/20/2013	MMW-12-01 MMW-12-01 EVI3060119-01 06/20/2013	FPP-B25 18.5 EVI3060134-64 08/21/2013	FPP-B26 19.5 EVI3060134-63 08/21/2013	FPP-B27 16 EVI3060134-62 08/21/2013	FPP-B28 19 EVI3060134-72 08/23/2013	FPP-B29b 19 EVI3060134-73 08/23/2013	FPP-B31 19 EVI3060134-66 08/22/2013	
Naphthalene				NA	NA	NA	NA	0.020 U	0.020 U	0.020 U	NA	NA	NA	NA	NA	
2-Methylnaphthalene				NA	NA	NA	NA	0.020 U	0.020 U	0.020 U	NA	NA	NA	NA	NA	
1-Methylnaphthalene				NA	NA	NA	NA	0.020 U	0.020 U	0.020 U	NA	NA	NA	NA	NA	
Total Naphthalenes				NA	NA	NA	NA	0.020 U	0.020 U	0.020 U	NA	NA	NA	NA	NA	
Acenaphthylene				NA	NA	NA	NA	0.020 U	0.020 U	0.020 U	NA	NA	NA	NA	NA	
Fluorene				NA	NA	NA	NA	0.020 U	0.020 U	0.020 U	NA	NA	NA	NA	NA	
Anthracene				NA	NA	NA	NA	0.020 U	0.020 U	0.020 U	NA	NA	NA	NA	NA	
Fluoranthene				NA	NA	NA	NA	0.020 U	0.020 U	0.020 U	NA	NA	NA	NA	NA	
Pyrene				NA	NA	NA	NA	0.020 U	0.020 U	0.020 U	NA	NA	NA	NA	NA	
Benzo[a]Anthracene				NA	NA	NA	NA	0.020 U	0.020 U	0.020 U	NA	NA	NA	NA	NA	
Chrysene				NA	NA	NA	NA	0.020 U	0.020 U	0.020 U	NA	NA	NA	NA	NA	
Benzo[b]Fluoranthene				NA	NA	NA	NA	0.020 U	0.020 U	0.020 U	NA	NA	NA	NA	NA	
Benzo[k]Fluoranthene				NA	NA	NA	NA	0.020 U	0.020 U	0.020 U	NA	NA	NA	NA	NA	
Benzo[a]Pyrene				NA	NA	NA	NA	0.020 U	0.020 U	0.020 U	NA	NA	NA	NA	NA	
Benzo[a]Anthracene				NA	NA	NA	NA	0.020 U	0.020 U	0.020 U	NA	NA	NA	NA	NA	
Benzo[e]Pyrene				NA	NA	NA	NA	0.020 U	0.020 U	0.020 U	NA	NA	NA	NA	NA	
Benzo[f]Pyrene				NA	NA	NA	NA	0.020 U	0.020 U	0.020 U	NA	NA	NA	NA	NA	
PAHs TEC				NA	NA	NA	NA	0.020 U	0.020 U	0.020 U	NA	NA	NA	NA	NA	
<b>PCBs (ug/L)</b>																
Method EPA-8082																
PCB-1016				NA	NA	NA	NA	0.020 U	0.020 U	0.020 U	NA	NA	NA	NA	NA	
PCB-1268				NA	NA	NA	NA	0.020 U	0.020 U	0.020 U	NA	NA	NA	NA	NA	
PCB-1221				NA	NA	NA	NA	0.020 U	0.020 U	0.020 U	NA	NA	NA	NA	NA	
PCB-1222				NA	NA	NA	NA	0.020 U	0.020 U	0.020 U	NA	NA	NA	NA	NA	
PCB-1248				NA	NA	NA	NA	0.020 U	0.020 U	0.020 U	NA	NA	NA	NA	NA	
PCB-1249				NA	NA	NA	NA	0.020 U	0.020 U	0.020 U	NA	NA	NA	NA	NA	
PCB-1280				NA	NA	NA	NA	0.020 U	0.020 U	0.020 U	NA	NA	NA	NA	NA	
Total PCBs				0.1	NA	NA	NA	0.020 U	0.020 U	0.020 U	NA	NA	NA	NA	NA	
<b>CONVENTIONALS (mg/L)</b>																
Total Dissolved Solids (SM2540C)				NA	NA	NA	NA	0.020 U	0.020 U	0.020 U	NA	NA	NA	NA	NA	
Total Organic Carbon (SM510C)				NA	NA	NA	NA	0.020 U	0.020 U	0.020 U	NA	NA	NA	NA	NA	
<b>FIELD PARAMETERS</b>																
pH				6.5-9.5	5.92	6.27	6.79	6.29	6.26	6.23	6.16	6.59	9.66	6.36	6.53	6.29



**TABLE A-3  
GROUNDWATER ANALYTICAL RESULTS  
YAKIMA MILL SITE  
YAKIMA, WASHINGTON**

Location: Depth: Lab ID: Date Collected:	MCA Method A Cleanup Levels for Groundwater	Screening Levels		Fmr PP Parcels Suppl. Invest.		Triangular Parcel Initial Investigation		Triangular Parcel Suppl. Invest.							
		Minimum Screening Level (Groundwater as Drinking Water) Unless Otherwise Indicated	Screening Level (Groundwater)	FPP-B33 19 EVI3060134-67 08/22/2013	FPP-MM-1 EVI3060134-71 08/23/2013	FPP-MM-2 EVI3060134-69 08/23/2013	FPP-MM-3 EVI3060134-70 08/23/2013	TP-B01 19 EVI3060128-59 06/21/2013	TP-B04B 18 EVI3060119-03 06/20/2013	TP-B06 16 EVI3060128-57 06/20/2013	TP-B08 18 EVI3060128-54 06/21/2013	TP-B09 18 EVI3060128-61 06/21/2013	TP-MM-1 EVI3060134-65 08/22/2013	TP-MM-2 EVI3060134-68 08/22/2013	
	1000	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U
1,1,2-Trichloroethane		NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U
2-Hexanone		NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U
1,3-Dichloropropane		NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U
tetrachloroethylene	5	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U
Dichloroacetylene	10	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U
1,2-Dibromoethane	0.01	NA	0.010 U	NA	0.010 U	NA	0.010 U	NA	0.010 U	NA	0.010 U	NA	0.010 U	NA	0.010 U
1,1,2,2-Tetrachloroethane	700	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U
Heptachlorene		NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U
m,p-Xylene	1000 (6)	NA	4.0 U	NA	4.0 U	NA	4.0 U	NA	4.0 U	NA	4.0 U	NA	4.0 U	NA	4.0 U
Styrene		NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U
o-Xylene	1000 (6)	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U
Bromoform		NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U
Isopropylbenzene		NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U
1,1,2,2-Tetrachloroethane		NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U
1,2,3-Trichloropropane		NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U
1,2-Dibromobenzene		NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U
1,3-Dibromobenzene		NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U
1,2,4-Trichlorobenzene		NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U
1,2-Dibromo-3-Chloropropane		NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U
1,2,4-Trichlorobenzene		NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U
Heptachlorodibutylsilane		NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U
Heptachloroepoxide		NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U
1,2,3-Trichlorobenzene		NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U
<b>VOLATILES (u/L)</b>															
<b>Method EPA-8260 SIM</b>															
Triethylamine	0.2	NA	NA	NA	NA	NA	0.020 U	NA	0.020 U	NA	0.020 U	NA	0.020 U	NA	NA
Trichloroethylene	5	NA	NA	NA	NA	NA	0.020 U	NA	0.020 U	NA	0.020 U	NA	0.020 U	NA	NA
<b>SEMI-VOLATILES (u/L)</b>															
<b>Method EPA-8270</b>															
Pyridine		NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U
N-Nitrosodimethylamine		NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U
Phenol		NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U
Aniline		NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U
Bis(2-Chloroethyl) Ether		NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U
3-Nitrophenol		NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U
1,3-Dichlorobenzene		NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U
1,4-Dichlorobenzene		NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U
Benzyl Alcohol		NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U
1,2-Dichloroethene		NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U
2-Methylphenol		NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U
Bis(2-Chloroethoxy) Ether		NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U
3,4-Dimethylphenol		NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U
N-Nitroso-Di-N-Propylamine		NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U
N-Nitrosodimethylamine		NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U
Heptachloroepoxide		NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U
Nitrobenzene		NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U
2-Nitrophenol		NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U
4-Nitrophenol		NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U
2,4-Dimethylphenol		NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA	2.0 U

**TABLE A-3  
GROUNDWATER ANALYTICAL RESULTS  
YAKIMA MILL SITE  
YAKIMA, WASHINGTON**

Location: Depth: Lab ID: Date Collected:	MTCM Method A Cleanup Levels for Groundwater	Screening Levels		Fmr Pk Parcel Suppl. Invest.		Triangular Parcel Initial Investigation		Triangular Parcel Suppl. Invest.				
		Minimum Screening Level (Groundwater as Drinking Water) Unless Otherwise Indicated										
Benzic Acid		FPP-B33 19 EY13080134-67 08/22/2013	FPP-MW-1 EY13080134-71 08/23/2013	FPP-MW-2 EY13080134-69 08/23/2013	FPP-MW-3 EY13080134-70 08/23/2013	TP-B01 19 EY13080128-59 09/21/2013	TP-B04B 18 EY13080119-03 06/20/2013	TP-B06 16 EY13080128-57 06/20/2013	TP-B08 18 EY13080128-54 06/21/2013	TP-B09 18 EY13080128-61 06/21/2013	TP-MW-1 EY13080134-65 08/22/2013	TP-MW-2 EY13080134-68 08/22/2013
Benz[e]Chloroacetyl Methane		NA	2.0 U	10 U	10 U	2.0 U	10 U	NA	10 U	10 U	2.0 U	10 U
2,4-Dichlorophenol		NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U
1,2,4-Trichlorobenzene		NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U
Naphthalene		NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U
4-Chloroaniline		NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U
2,6-Dichlorophenol		NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U
1,2,3-Trichlorobenzene		NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U
2,4-Dinitrophenol		NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U
1-Halophenylbenzene		NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U
Hexachlorocyclopentadiene		NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U
2,4,6-Trichlorophenol		NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U
2,4,5-Trichlorophenol		NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U
2-Chloronaphthalene		NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U
2-Nitroaniline		NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U
Acenaphthylene		NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U
Acenaphthene		NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U
2,6-Dinitrotoluene		NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U
3-Nitroaniline		NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U
2,4-Dinitrophenol		NA	10 U	10 U	10 U	10 U	10 U	NA	10 U	10 U	10 U	10 U
4-Nitrophenol		NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U
Dibenzofuran		NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U
2,3,4,6-Tetrachlorophenol		NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U
Dienylphthalate		NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U
Thiobenzene		NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U
1,4-Dichloro-2-Phenylolefin		NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U
1,6-Dichloro-2-Methylphenol		NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U
1-Nitro-2-Naphthylamine		NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U
Acetazone		NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U
4-Bromophenyl-Phenylolefin		NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U
Head-to-head Benzene		NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U
Para-chlorophenol		NA	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NA	5.0 U	5.0 U	5.0 U	5.0 U
Phenanthrene		NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U
Anthracene		NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U
Carbazole		NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U
1,4-Dichlorobenzene		NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dichlorobenzene		NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U
Benzene		NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U
1,2,4-Trichlorobenzene		NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U
3,3-Dichlorobenzidine		NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U
Benz[a]Anthracene		NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U
Chrysene		NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U
Bis[2-Ethylhexyl]Phthalate	6.0	NA	4.0 U	2.8 U	2.0 U	13 U	2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U
Bis[4-Cyclohexyl]Phthalate		NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U
Benzol[b]Fluoranthene		NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U
Benzol[k]Fluoranthene		NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U
Indeno[1,2,3-cd]Pyrene		NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U
Dibenz[a,h]Anthracene		NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U
Benzol[g,h]Perylene		NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U

**TABLE A-3  
GROUNDWATER ANALYTICAL RESULTS  
YAKIMA MILL SITE  
YAKIMA, WASHINGTON**

PAHs (ug/L) Method EPA-8270 SIM	Location: Depth: Lab ID: Cleanup Levels for Date Collected:	Screening Levels												
		Minimum Screening Level (Groundwater as Drinking Water) Unless Otherwise Indicated		FPP-B33 19 EVI3080134-67 08/22/2013	FPP-MM-1 EVI3080134-71 08/23/2013	FPP-MM-2 EVI3080134-69 08/23/2013	FPP-MM-3 EVI3080134-70 08/23/2013	TP-B01 19 EVI3080128-59 09/21/2013	TP-B04B 18 EVI3080119-03 06/20/2013	TP-B06 16 EVI3080128-57 06/20/2013	TP-B08 18 EVI3080128-54 09/21/2013	TP-B09 18 EVI3080128-61 06/21/2013	TP-MM-1 EVI3080134-65 08/22/2013	TP-MM-2 EVI3080134-68 08/22/2013
Naphthalene		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
2-Methylnaphthalene		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
1-Methylnaphthalene		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Total Naphthalenes		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Acenaphthylene		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Acenaphthene		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Fluorene		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Anthracene		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Fluoranthene		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Pyrene		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Benzo[a]Anthracene		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chrysene		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Benzo[b]Fluoranthene		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Benzo[k]Fluoranthene		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Benzo[a]Pyrene		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Indeno[1,2,3-cd]Pyrene		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Total PCBs		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Benzo[e]Pyrene		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Benzo[f]Pyrene		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
PAHs TEC		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
PCBs (ug/L) Method EPA-8082														
PCB-1016		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
PCB-1268		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
PCB-1221		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
PCB-1229		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
PCB-1248		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
PCB-1254		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
PCB-1280	0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Total PCBs		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
CONVENTIONALS (mg/L)														
Total Dissolved Solids (SM2540C)		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Total Organic Carbon (SM2510C)		NA	36	NA	18	NA	17	NA	NA	NA	NA	NA	NA	
FIELD PARAMETERS		6.5	9.5	6.97	6.92	5.90	6.62	6.75	5.48	6.23	5.87	6.22	6.84	6.56



**TABLE A-3**  
**GROUNDWATER ANALYTICAL RESULTS**  
**YAKIMA MILL SITE**  
**YAKIMA, WASHINGTON**

- (a) = The reporting limit for this analyte is higher than the minimum screening level; non detects at the reporting limit are not identified as an exceedance.
- (b) = Value is used when benzene is not present.
- (c) = Based on Practical Quantification Limit.
- (d) = Value based on total xylenes.
- J = Indicates the analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- U = Indicates the compound was not detected at the reported concentration.
- UJ = The analyte was not detected in the sample; the reported sample reporting limit is an estimate.
- NA = Not analyzed.
- ND = Not detected.
- Bold** = Exceedance of Screening Level.

**TABLE A-4**  
**SURFACE WATER ANALYTICAL RESULTS**  
**YAKIMA MILL SITE**  
**YAKIMA, WASHINGTON**

	Location: FPP-SW-01	FPP-SW-02	FPP-SW-03
	Lab ID: EV13060128-62	EV13060128-63	EV13060128-64
	Date Collected: 06/20/2013	06/20/2013	06/20/2013
<b>TOTAL PETROLEUM</b>			
<b>HYDROCARBONS (µg/L)</b>			
<b>NWTPH-HCID</b>			
HCID-Gas Range	130 U	130 U	130 U
HCID-Diesel Range	310 U	310 U	>310
HCID-Oil Range	>310	310 U	>310
<b>FIELD PARAMETERS</b>			
pH	6.32	8.81	7.03

U = Indicates the compound was not detected at the reported concentration.  
 NA = Not analyzed.

**TABLE A-5**  
**WOOD WASTE ANALYTICAL RESULTS**  
**YAKIMA MILL SITE**  
**YAKIMA, WASHINGTON**

Location:	Wood-1-(1-6)	Wood-1-(6-11)
Lab ID:	K1308586-001	K1308586-002
Date Collected:	08/21/2013	08/21/2013

---

**TCLP METALS (mg/L)**

**Method 6010C/7470A**

Arsenic	0.1 U	0.1 U
Barium	1.0 U	1.0 U
Cadmium	0.05 U	0.05 U
Chromium	0.05 U	0.05 U
Lead	0.05 U	0.05 U
Mercury	0.001 U	0.001 U
Selenium	0.1 U	0.1 U
Silver	0.1 U	0.1 U


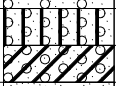

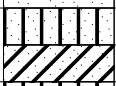







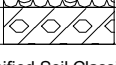
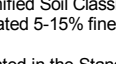
**HIGH HEAT VALUE (BTU/LB)**



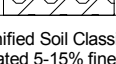
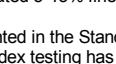
<b>Method ASTM D2015</b>	5360	4340
--------------------------	------	------

U = Indicates the compound was not detected at the reported concentration.

# Exploration Logs

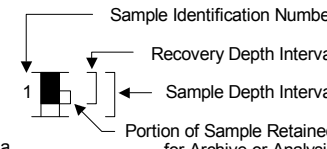
## Soil Classification System



	MAJOR DIVISIONS	USCS GRAPHIC SYMBOL	USCS LETTER SYMBOL <sup>(1)</sup>	TYPICAL DESCRIPTIONS <sup>(2)(3)</sup>
COARSE-GRAINED SOIL (More than 50% of material is larger than No. 200 sieve size)	GRAVEL AND GRAVELLY SOIL  (More than 50% of coarse fraction retained on No. 4 sieve)	CLEAN GRAVEL (Little or no fines)		<b>GW</b> Well-graded gravel; gravel/sand mixture(s); little or no fines
		GRAVEL WITH FINES (Appreciable amount of fines)		<b>GP</b> Poorly graded gravel; gravel/sand mixture(s); little or no fines
	SAND AND SANDY SOIL  (More than 50% of coarse fraction passed through No. 4 sieve)	CLEAN SAND (Little or no fines)		<b>SW</b> Well-graded sand; gravelly sand; little or no fines
		SAND WITH FINES (Appreciable amount of fines)		<b>SP</b> Poorly graded sand; gravelly sand; little or no fines
				<b>SM</b> Silty sand; sand/silt mixture(s)
				<b>SC</b> Clayey sand; sand/clay mixture(s)
FINE-GRAINED SOIL (More than 50% of material is smaller than No. 200 sieve size)	SILT AND CLAY  (Liquid limit less than 50)		<b>ML</b> Inorganic silt and very fine sand; rock flour; silty or clayey fine sand or clayey silt with slight plasticity	
			<b>CL</b> Inorganic clay of low to medium plasticity; gravelly clay; sandy clay; silty clay; lean clay	
			<b>OL</b> Organic silt; organic, silty clay of low plasticity	
	SILT AND CLAY  (Liquid limit greater than 50)		<b>MH</b> Inorganic silt; micaceous or diatomaceous fine sand	
			<b>CH</b> Inorganic clay of high plasticity; fat clay	
			<b>OH</b> Organic clay of medium to high plasticity; organic silt	
	HIGHLY ORGANIC SOIL		<b>PT</b> Peat; humus; swamp soil with high organic content	

OTHER MATERIALS	GRAPHIC SYMBOL	LETTER SYMBOL	TYPICAL DESCRIPTIONS
PAVEMENT		<b>AC or PC</b>	Asphalt concrete pavement or Portland cement pavement
ROCK		<b>RK</b>	Rock (See Rock Classification)
WOOD		<b>WD</b>	Wood, lumber, wood chips
DEBRIS		<b>DB</b>	Construction debris, garbage

- Notes:
- USCS letter symbols correspond to symbols used by the Unified Soil Classification System and ASTM classification methods. Dual letter symbols (e.g., SP-SM for sand or gravel) indicate soil with an estimated 5-15% fines. Multiple letter symbols (e.g., ML/CL) indicate borderline or multiple soil classifications.
  - Soil descriptions are based on the general approach presented in the Standard Practice for Description and Identification of Soils (Visual-Manual Procedure), outlined in ASTM D 2488. Where laboratory index testing has been conducted, soil classifications are based on the Standard Test Method for Classification of Soils for Engineering Purposes, as outlined in ASTM D 2487.
  - Soil description terminology is based on visual estimates (in the absence of laboratory test data) of the percentages of each soil type and is defined as follows:
    - Primary Constituent: > 50% - "GRAVEL," "SAND," "SILT," "CLAY," etc.
    - Secondary Constituents: > 30% and ≤ 50% - "very gravelly," "very sandy," "very silty," etc.
    - > 15% and ≤ 30% - "gravelly," "sandy," "silty," etc.
    - Additional Constituents: > 5% and ≤ 15% - "with gravel," "with sand," "with silt," etc.
    - ≤ 5% - "with trace gravel," "with trace sand," "with trace silt," etc., or not noted.
  - Soil density or consistency descriptions are based on judgement using a combination of sampler penetration blow counts, drilling or excavating conditions, field tests, and laboratory tests, as appropriate.

Drilling and Sampling Key		Field and Lab Test Data	
SAMPLER TYPE	SAMPLE NUMBER & INTERVAL	Code	Description
Code	Description		
a	3.25-inch O.D., 2.42-inch I.D. Split Spoon	PP = 1.0	Pocket Penetrometer, tsf
b	2.00-inch O.D., 1.50-inch I.D. Split Spoon	TV = 0.5	Torvane, tsf
c	Shelby Tube	PID = 100	Photoionization Detector VOC screening, ppm
d	Grab Sample	W = 10	Moisture Content, %
e	Single-Tube Core Barrel	D = 120	Dry Density, pcf
f	Double-Tube Core Barrel	-200 = 60	Material smaller than No. 200 sieve, %
g	2.50-inch O.D., 2.00-inch I.D. WSDOT	GS	Grain Size - See separate figure for data
h	3.00-inch O.D., 2.375-inch I.D. Mod. California	AL	Atterberg Limits - See separate figure for data
i	Other - See text if applicable	GT	Other Geotechnical Testing
1	300-lb Hammer, 30-inch Drop	CA	Chemical Analysis
2	140-lb Hammer, 30-inch Drop		
3	Pushed		
4	Vibrocure (Rotasonic/Geoprobe)		
5	Other - See text if applicable		



Groundwater	
	Approximate water level at time of drilling (ATD)
	Approximate water level at time other than ATD

# FPP-B01

LAI Project No: 1148007.010

## SAMPLE DATA

## SOIL PROFILE

Moisture Content (%)  
 Plastic Limit | 0 | 0 | 0 | 0 | Liquid Limit  
 ▲ SPT N-Value ▲  
 △ Non-Standard N-Value △  
 0 | 0 | 0 | 0  
 × Fines Content (%) ×  
 0 | 0 | 0 | 0

Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	Test Data	Graphic Symbol	USCS Symbol	Drilling Method: <u>Geoprobe™</u>	Ground Elevation (ft): <u>Not surveyed</u>	Drilled By: <u>Cascade Drilling Inc.</u>	Logged By: <u>SDS</u> Date: <u>06/18/13</u>
0 - 5	FPP-B01-S(0.5-1)	d3	0		[Small circles pattern]	GP-GM	Gray, sandy GRAVEL with silt (slight petroleum-like odor, no sheen) (loose, dry)			
5 - 12.5			0		[Large circles pattern]	GP	Mottled, gray to brown, coarse GRAVEL with sand and cobbles (no odor, no sheen) (loose, dry)			
12.5 - 20.0	FPP-B01-S(12-13)	d3	0		[Small circles with dots pattern]	SP-SM	Brown, very gravelly medium to coarse SAND with silt (no odor, no sheen) (loose, wet)			

Groundwater

15.0 ft ATD 13.0 ft During Groundwater Sample Collection

Boring Completed 06/18/13      Point located at State Plane Coordinates:  
 Total Depth of Boring = 20.0 ft.      North: 466690.12  
    East: 1640805.96

- Notes: 1. Stratigraphic contacts are based on field interpretations and are approximate.  
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.  
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

1148007.01 11/26/13 N:\PROJECTS\1148007.010.GPJ SOIL BORING LOG WITH GRAPH



Yakima Mill Site  
Yakima, WA

Log of Boring FPP-B01

Figure  
**B-2**

# FPP-B02

LAI Project No: 1148007.010

## SAMPLE DATA

## SOIL PROFILE

Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	Test Data	Graphic Symbol	USCS Symbol	Drilling Information	
							Drilling Method: Geoprobe™	Ground Elevation (ft): Not surveyed
0	FPP-B02-S(1-2)	d3	0		GP-GM		Drilled By: Cascade Drilling Inc.	Logged By: SDS Date: 06/19/13
0 - 15.5							(FILL)	
15.5 - 15.5	FPP-B02-S(14-15.5)	d3	0		GP		Mottled gray to brown coarse GRAVEL with sand and cobbles (no odor, no sheen) (loose, dry)	
15.5 - 15.5							(ALLUVIUM)	
15.5 - 20.0					SP-SM		Dark gray to brown, gravelly fine to coarse SAND with silt (slight petroleum-like odor, no sheen) (loose, damp)	
20.0 - 20.0					GP-GM		-grades sandy GRAVEL with silt (no odor, no sheen) (loose, wet)	

Groundwater	Moisture Content (%)			
	▲ SPT N-Value ▲ Δ Non-Standard N-Value Δ			
	× Fines Content (%) ×			
15.0 ft During Groundwater Sample Collection				

Boring Completed 06/19/13  
 Total Depth of Boring = 20.0 ft.

Point located at State Plane Coordinates:  
 North: 466656.47  
 East: 1640829.33

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
  2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
  3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

1148007.01 11/26/13 N:\PROJECTS\1148007.010.GPJ SOIL BORING LOG WITH GRAPH



Yakima Mill Site  
 Yakima, WA

Log of Boring FPP-B02

Figure  
**B-3**

# FPP-B03

LAI Project No: 1148007.010

## SAMPLE DATA

## SOIL PROFILE

Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	Test Data	Graphic Symbol	USCS Symbol	Drilling Method: Geoprobe™ Ground Elevation (ft): Not surveyed Drilled By: Cascade Drilling Inc. Logged By: SDS Date: 06/18/13	Groundwater	Moisture Content (%)			
									Plastic Limit	Liquid Limit		
0	FPP-B03 -S(0.5-2)	d3		0	(Symbol: circles)	GP	Brown, sandy fine to coarse GRAVEL (no odor, no sheen) (loose, dry) <b>(FILL)</b>		▲ SPT N-Value ▲ △ Non-Standard N-Value △ 0 0 0 0 × Fines Content (%) × 0 0 0 0			
5				0.6	(Symbol: circles)	GP	Brown to gray, sandy, fine to coarse GRAVEL (no odor, no sheen) (loose, dry)	15.0 ft ATD 13.0 ft During Groundwater Sample Collection				
10	FPP-B03 -S(13-14)	d3		0.4	(Symbol: circles)							
15												

Boring Completed 06/18/13  
Total Depth of Boring = 15.0 ft.

Point located at State Plane Coordinates:  
North: 466624.01  
East: 1640833.71

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
  2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
  3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

1148007.01 11/26/13 N:\PROJECTS\1148007.010.GPJ SOIL BORING LOG WITH GRAPH



Yakima Mill Site  
Yakima, WA

Log of Boring FPP-B03

Figure  
**B-4**



# FPP-B04

LAI Project No: 1148007.010

SAMPLE DATA				SOIL PROFILE			Moisture Content (%)	
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	Test Data	Graphic Symbol	USCS Symbol	Plastic Limit	
							0	0
Drilling Method: Geoprobe™ Ground Elevation (ft): Not surveyed Drilled By: Cascade Drilling Inc. Logged By: SDS Date: 06/18/13							▲ SPT N-Value ▲ Δ Non-Standard N-Value Δ 0 0 0 0	
							× Fines Content (%) × 0 0 0 0	
0						GP-GM	Brown, sandy GRAVEL with silt (no odor, no sheen) (medium dense, damp) <b>(FILL)</b>	
0.1						GP	Gray to green sandy GRAVEL (no odor, no sheen) (medium dense, dry)	
0						PC	Crushed concrete (loose, dry)	
0						GP	Gray to green, sandy GRAVEL (petroleum-like odor, no sheen) (medium dense, dry)	
0	FPP-B04-S(11-12)	d3				SP	Dark gray to green very gravelly fine to coarse SAND (petroleum-like odor, sheen) (loose, dry) -Green soil staining -grades sandy GRAVEL (petroleum-like odor, sheen) (loose, dry)	
0						SP	Dark gray, gravelly fine to coarse SAND (no odor, no sheen) (loose, wet) <b>(ALLUVIUM)</b> -grades to very sandy GRAVEL with native wood debris (roots, bark)	
0	FPP-B04-S(21-22)	d3				GP-GM	Dark brown, woody, very sandy GRAVEL with silt (no odor, no sheen) (loose, wet)	
0						WD	Brown native woody debris(roots, bark) (no odor, no sheen) (loose, wet)	

13.0 ft AT Dig Groundwater Sample Collection

Boring Completed 06/18/13 Point located at State Plane Coordinates:  
 Total Depth of Boring = 25.0 ft. North: 466815.05  
 East: 1641066.03

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
  2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
  3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

1148007.01 11/26/13 N:\PROJECTS\1148007.010.GPJ SOIL BORING LOG WITH GRAPH



Yakima Mill Site  
Yakima, WA

Log of Boring FPP-B04

Figure  
**B-5**

# FPP-B05

LAI Project No: 1148007.010

## SAMPLE DATA

## SOIL PROFILE

Moisture Content (%)			
Plastic Limit	0 — 0 — 0 — 0		Liquid Limit
▲ SPT N-Value ▲			
△ Non-Standard N-Value △			
0	0	0	0
× Fines Content (%) ×			
0	0	0	0

Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	Test Data	Graphic Symbol	USCS Symbol	Drilling Method: Geoprobe™	Ground Elevation (ft): Not surveyed	Drilled By: Cascade Drilling Inc.	Logged By: SDS Date: 06/19/13
0						SP-SM	Brown, gravelly, fine to medium SAND with silt (no odor, no sheen) (loose, damp)			
						GP	(FILL) Blue-gray, sandy GRAVEL (petroleum-like odor, no sheen) (loose, dry)			
5				0						
10				0						
15	FPP-B05 -S(15-16.5)	d3		1.7		SP	Dark gray, fine to coarse SAND with gravel (petroleum-like odor, sheen) (loose, damp)			
							(ALLUVIUM)			
							-green to yellow oily substance in core tube between 15 and 17 ft			
20	FPP-B05 -S(22.5-24)	d3		0.5		GP-GM	Dark gray, sandy GRAVEL with silt (no odor, no sheen) (loose, wet)			
25										

Groundwater

15.5 ft ATD 13.0 ft During Groundwater Sample Collection

1148007.01 11/26/13 N:\PROJECTS\1148007.010.GPJ SOIL BORING LOG WITH GRAPH

Boring Completed 06/19/13 Point located at State Plane Coordinates:  
 Total Depth of Boring = 25.0 ft. North: 466791.56  
 East: 1641118.69

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
  2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
  3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.



Yakima Mill Site  
Yakima, WA

Log of Boring FPP-B05

Figure  
B-6

# FPP-B06

LAI Project No: 1148007.010

## SAMPLE DATA

## SOIL PROFILE

Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	Test Data	Graphic Symbol	USCS Symbol	Drilling Method: Geoprobe™ Ground Elevation (ft): Not surveyed Drilled By: Cascade Drilling Inc. Logged By: SDS Date: 06/18/13	Groundwater	Moisture Content (%)			
									Plastic Limit	Liquid Limit		
0									▲ SPT N-Value ▲ △ Non-Standard N-Value △ 0 0 0 0			
									× Fines Content (%) × 0 0 0 0			
0 - 5				0		GP-GM	Brown, sandy GRAVEL with silt (no odor, no sheen) (loose, dry) <b>(FILL)</b>	10.0 ft ATD During Groundwater Sample Collection				
5 - 10				0		SM	Brown, silty fine to medium SAND with gravel (no odor, no sheen) (medium dense, dry)					
10 - 20				0		SP	Dark gray, gravelly fine to coarse SAND (no odor, no sheen) (loose, wet) <b>(ALLUVIUM)</b>  -depth of lathe pit to north of boring is 13.3 feet  -grades very sandy GRAVEL with silt (loose, wet) (no odor, no sheen)					
15 - 20	FPP-B06-S(15-16)	d3		0								

Boring Completed 06/18/13  
Total Depth of Boring = 20.0 ft.

Point located at State Plane Coordinates:  
North: 466743.99  
East: 1641075.37

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
  2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
  3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

1148007.01 11/26/13 N:\PROJECTS\1148007.010.GPJ SOIL BORING LOG WITH GRAPH



Yakima Mill Site  
Yakima, WA

Log of Boring FPP-B06

Figure  
**B-7**

# FPP-B07

LAI Project No: 1148007.010

SAMPLE DATA				SOIL PROFILE			Moisture Content (%)			
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	Test Data	Graphic Symbol	USCS Symbol	Plastic Limit ———●——— Liquid Limit			
							▲ SPT N-Value ▲ △ Non-Standard N-Value △			
Drilling Method: Geoprobe™ Ground Elevation (ft): Not surveyed Drilled By: Cascade Drilling Inc. Logged By: SDS Date: 06/19/13							× Fines Content (%) × 0 0 0 0			
0							Groundwater			
0.5	FPP-B07 -S(0.5-1.5)			0.5	SP		Green to gray gravelly fine to coarse SAND (petroleum-like odor, no sheen) -green staining (loose, dry)			
					WD		(FILL) Brown WOODWASTE material (no odor, no sheen) (loose, wet)			
5				0						
10					SP-SM		Dark gray, gravelly fine SAND with silt (slight petroleum-like odor, no sheen) (medium dense, wet) <b>(ALLUVIUM)</b>			
15	FPP-B07 -S(15-16)			0.3			-grades dark gray, gravelly fine to medium SAND with silt (medium dense, wet)			
20							▼ 13.0 ft During Groundwater Sample Collection			

Boring Completed 06/19/13  
 Total Depth of Boring = 20.0 ft.  
 Point located at State Plane Coordinates:  
 North: 466954.12  
 East: 1641303.35

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
  2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
  3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

1148007.01 11/26/13 N:\PROJECTS\1148007.010.GPJ SOIL BORING LOG WITH GRAPH



Yakima Mill Site  
 Yakima, WA

Log of Boring FPP-B07

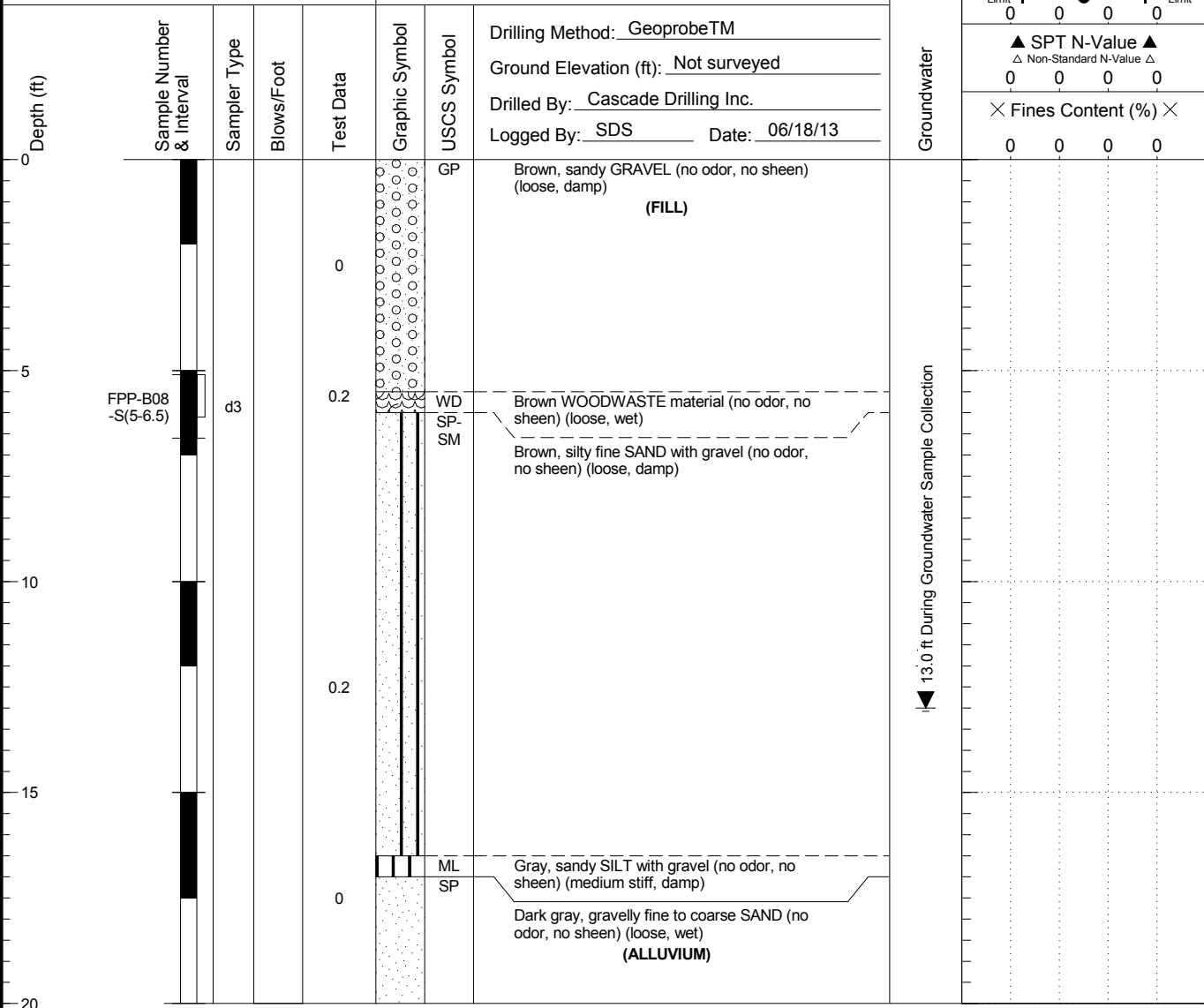
Figure  
**B-8**

# FPP-B08

LAI Project No: 1148007.010

## SAMPLE DATA

## SOIL PROFILE



Boring Completed 06/18/13  
 Total Depth of Boring = 20.0 ft.  
 Point located at State Plane Coordinates:  
 North: 466739.19  
 East: 1641203.73

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
  2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
  3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

1148007.01 11/26/13 N:\PROJECTS\1148007.010.GPJ SOIL BORING LOG WITH GRAPH



Yakima Mill Site  
 Yakima, WA

Log of Boring FPP-B08

Figure  
**B-9**

# FPP-B09

LAI Project No: 1148007.010

## SAMPLE DATA

## SOIL PROFILE

Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	Test Data	Graphic Symbol	USCS Symbol	Soil Profile Description	
							Drilling Method: Geoprobe™	Ground Elevation (ft): Not surveyed
0							Drilled By: Cascade Drilling Inc.	Logged By: SDS Date: 06/19/13
0 - 12.5					(FILL)	SP-SM	Brown, gravelly fine to medium SAND with silt (slight petroleum-like odor, no sheen) (loose, damp)	
12.5 - 16.5	FPP-B09-S(12-13)		0.3		(GRAVEL)	GP-GM	Brown, sandy GRAVEL with silt (slight petroleum-like odor, no sheen) (medium dense, damp)	
16.5 - 20.0					(ALLUVIUM)	SP-SM	Dark gray, gravelly fine to coarse SAND with silt (no odor, no sheen) (loose, wet)	
20.0 - 23.0						SP	Dark gray, fine to coarse SAND with gravel (no odor, no sheen) (loose, wet)	

Moisture Content (%)

Plastic Limit | Liquid Limit

0 0 0 0

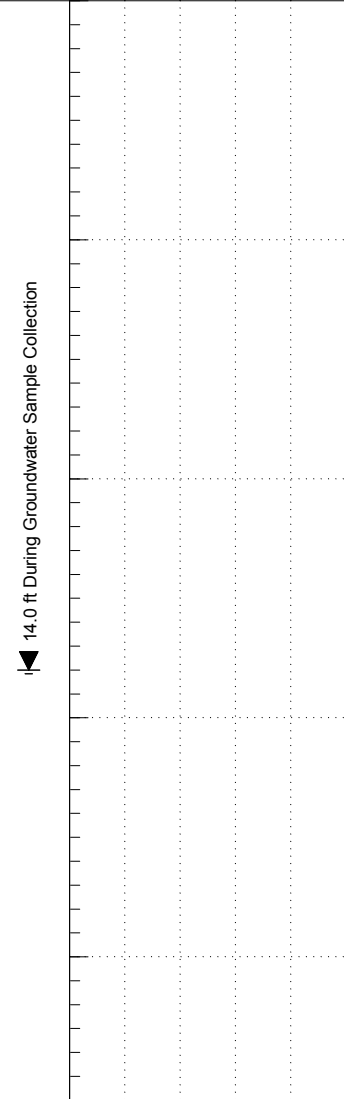
▲ SPT N-Value ▲

△ Non-Standard N-Value △

0 0 0 0

× Fines Content (%) ×

0 0 0 0



Boring Completed 06/19/13 Total Depth of Boring = 23.0 ft.

Point located at State Plane Coordinates:  
 North: 466628.15  
 East: 1641025.81

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
  2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
  3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

1148007.01 11/26/13 N:\PROJECTS\1148007.010.GPJ SOIL BORING LOG WITH GRAPH



Yakima Mill Site  
Yakima, WA

Log of Boring FPP-B09

Figure  
**B-10**

# FPP-B10

LAI Project No: 1148007.010

SAMPLE DATA				SOIL PROFILE			Moisture Content (%)	
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	Test Data	Graphic Symbol	USCS Symbol	Plastic Limit	
							0	0
							Plastic Limit: 0 —●— Liquid Limit: 0 ▲ SPT N-Value ▲ Δ Non-Standard N-Value Δ 0 0 0 0 × Fines Content (%) × 0 0 0 0	
							Drilling Method: Geoprobe™ Ground Elevation (ft): Not surveyed Drilled By: Cascade Drilling Inc. Logged By: SDS Date: 06/18/13	
0					GP		Gray pea GRAVEL (no odor, no sheen) (loose, damp)	
					GP-GM		(FILL) Mottled, gray to brown sandy coarse GRAVEL with silt and cobbles (no odor, no sheen) (loose, dry)	
5								
10	FPP-B10-S(10-11)	d3		0	SP		Blue-gray, fine to medium SAND with gravel (petroleum-like odor, slight sheen) (loose, damp)	
15	FPP-B10-S(15-16)	d3		0	SP-SM		Dark gray, gravelly fine to coarse SAND with silt (no odor, no sheen) (loose, wet)	
					ML		Gray, sandy SILT with woody debris (no odor, no sheen) (medium stiff, wet)	
					SP		Dark gray, gravelly fine to coarse SAND (no odor, no sheen) (loose, wet)	
					CL		(ALLUVIUM) Brown, sandy CLAY (no odor, no sheen) (stiff, wet)	

15.0 ft ATD. 5 ft During Groundwater Sample Collection

Boring Completed 06/18/13  
 Total Depth of Boring = 20.0 ft.  
 Point located at State Plane Coordinates:  
 North: 466592.82  
 East: 1640969.10

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
  2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
  3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

1148007.01 11/26/13 N:\PROJECTS\1148007.010.GPJ SOIL BORING LOG WITH GRAPH



Yakima Mill Site  
 Yakima, WA

Log of Boring FPP-B10

Figure  
**B-11**

# FPP-B11

LAI Project No: 1148007.010

## SAMPLE DATA

## SOIL PROFILE

Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	Test Data	Graphic Symbol	USCS Symbol	Drilling Method: Geoprobe™ Ground Elevation (ft): Not surveyed Drilled By: Cascade Drilling Inc. Logged By: SDS Date: 06/18/13	Groundwater	Moisture Content (%)			
									Plastic Limit	Liquid Limit		
0						SP	Brown, gravelly, fine to coarse SAND (no odor, no sheen) (loose, dry) <b>(FILL)</b>		▲ SPT N-Value ▲ Δ Non-Standard N-Value Δ 0 0 0 0 × Fines Content (%) × 0 0 0 0			
5						SP	Gray to brown, mottled, gravelly, fine to coarse SAND with cobbles (no odor, no sheen) (loose, dry)	14.0 ft During Groundwater Sample Collection 17.5 ft ATD				
						GP	Blue-gray GRAVEL with sand (no odor, no sheen) (loose, dry)					
				0		SP	Gray to brown, mottled, gravelly, fine to coarse SAND with cobbles (petroleum-like odor, no sheen) (medium dense, dry)					
						SP-SM	-black staining -grades with silt					
				0		SP-SM	Gray, gravelly fine to coarse SAND with silt (no odor, no sheen) (medium dense, damp)					
15						SP	Brown, gravelly fine to coarse SAND (no odor, no sheen) (dense, damp) -grades silty					
	FPP-B11 -S(18-19)			0		SP	Dark gray, gravelly fine to coarse SAND (very slight petroleum-like odor, no sheen) <b>(ALLUVIUM)</b>					
	FPP-B11 -S(22-23)			0		SP-SM	Brown, gravelly fine to coarse SAND with silt (no odor, no sheen) (loose, wet)					

Boring Completed 06/18/13 Point located at State Plane Coordinates:  
 Total Depth of Boring = 25.0 ft. North: 466613.31  
 East: 1641046.66

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
  2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
  3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

1148007.01 11/26/13 N:\PROJECTS\1148007.010.GPJ SOIL BORING LOG WITH GRAPH



Yakima Mill Site  
Yakima, WA

Log of Boring FPP-B11

Figure  
**B-12**



# FPP-B12

LAI Project No: 1148007.010

SAMPLE DATA				SOIL PROFILE			Moisture Content (%)			
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	Test Data	Graphic Symbol	USCS Symbol	Plastic Limit ———●———— Liquid Limit			
							▲ SPT N-Value ▲ △ Non-Standard N-Value △			
Drilling Method: Geoprobe™ Ground Elevation (ft): Not surveyed Drilled By: Cascade Drilling Inc. Logged By: SDS Date: 06/18/13							× Fines Content (%) ×			
0						SP-SM	Brown, fine to medium SAND with gravel, with silt (no odor, no sheen) (loose, damp) (FILL)			
5	FPP-B12-S(6-7)			0		GP-GM	Brown, very sandy GRAVEL with silt (no odor, no sheen) (loose, damp)			
						SP-SM	Gray, gravelly fine to coarse SAND with silt (no odor, no sheen) (loose, damp)			
10							Groundwater Sample Collection 8.5 ft During Groundwater Sample			

Boring Completed 06/18/13  
 Total Depth of Boring = 10.0 ft.

Point located at State Plane Coordinates:  
 North: 466624.35  
 East: 1641156.67

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
  2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
  3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

1148007.01 11/26/13 N:\PROJECTS\1148007.010.GPJ SOIL BORING LOG WITH GRAPH



Yakima Mill Site  
 Yakima, WA

Log of Boring FPP-B12

Figure  
**B-13**

# FPP-B13

LAI Project No: 1148007.010

## SAMPLE DATA

## SOIL PROFILE

Moisture Content (%)			
Plastic Limit	-----●-----		Liquid Limit
0	0	0	0
▲ SPT N-Value ▲			
△ Non-Standard N-Value △			
0	0	0	0
× Fines Content (%) ×			
0	0	0	0

Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	Test Data	Graphic Symbol	USCS Symbol	Drilling Method: Geoprobe™
0							Ground Elevation (ft): Not surveyed
							Drilled By: Cascade Drilling Inc.
							Logged By: SDS Date: 06/17/13
0 - 5	FPP-B13 -S(5.5-6.5)			0	(FILL)	SP-SM	Brown, very gravelly fine to medium SAND with silt (no odor, no sheen) (loose, damp)
5 - 10				0		GP-GM	Mottled, gray to brown, sandy, coarse GRAVEL with silt and cobbles (no odor, no sheen) (loose, dry)
10 - 12.5						SP-SM	Gray, gravelly, fine to coarse SAND with silt (no odor, no sheen) (loose, wet)
12.5 - 15	FPP-B13 -S(12.5-14)			0		GP-GM	Mottled, gray to brown, sandy, coarse GRAVEL with silt and cobbles (no odor, no sheen) (loose, dry)
15 - 16.5						GM	Gray, sandy, silty GRAVEL (no odor, no sheen) (loose, wet)
16.5 - 17.5						CL-SP-SM	Dark gray, sandy CLAY (no odor, no sheen) (stiff, damp)
17.5 - 20							(ALLUVIUM) Dark gray, gravelly fine to coarse SAND with silt (no odor, no sheen) (loose, wet)

Groundwater

9.0 ft During Groundwater Sample Collection

14.5 ft ATD

Boring Completed 06/17/13  
Total Depth of Boring = 20.0 ft.

Point located at State Plane Coordinates:  
North: 466498.65  
East: 1641113.39

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
  2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
  3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

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Yakima Mill Site  
Yakima, WA

Log of Boring FPP-B13

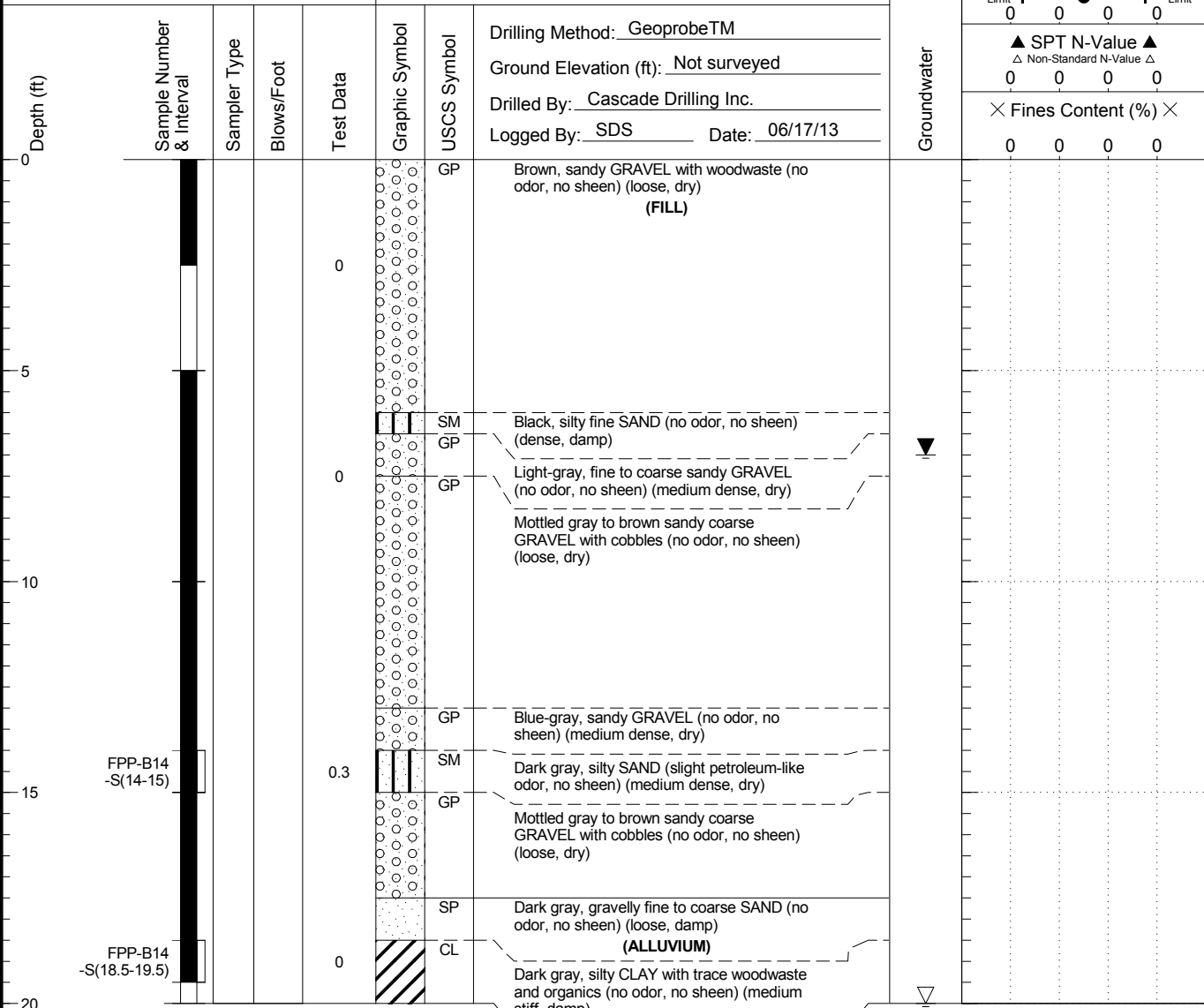
Figure  
**B-14**

# FPP-B14

LAI Project No: 1148007.010

## SAMPLE DATA

## SOIL PROFILE



Boring Completed 06/17/13  
 Total Depth of Boring = 20.0 ft.  
 Point located at State Plane Coordinates:  
 North: 466411.53  
 East: 1640990.27

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
  2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
  3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

1148007.01 11/26/13 N:\PROJECTS\1148007.010.GPJ SOIL BORING LOG WITH GRAPH



Yakima Mill Site  
 Yakima, WA

Log of Boring FPP-B14

Figure  
**B-15**

# FPP-B15

LAI Project No: 1148007.010

SAMPLE DATA				SOIL PROFILE			Moisture Content (%)						
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	Test Data	Graphic Symbol	USCS Symbol	Drilling Method: Geoprobe™		Groundwater	Plastic Limit — Liquid Limit			
							Ground Elevation (ft): Not surveyed	Drilled By: Cascade Drilling Inc.		▲ SPT N-Value ▲ △ Non-Standard N-Value △			
							Logged By: SDS	Date: 06/17/13		× Fines Content (%) ×			
0						SP	Brown, fine to coarse SAND with gravel (no odor, no sheen) (loose, damp)						
						CL	Brown, sandy CLAY (no odor, no sheen) (stiff, damp)						
				0		SP-SM	Brown, fine to medium SAND with silt (no odor, no sheen) (loose, dry)						
5													
				0		GP	Gray, sandy GRAVEL (no odor, no sheen) (loose, dry)						
10													
				0		SM	Dark brown, silty fine SAND (no odor, no sheen) (medium dense, damp)						
15						ML	Brown, sandy SILT (no odor, no sheen) (stiff, damp)						
							(ALLUVIUM)						
						SP	Dark gray, gravelly fine to coarse SAND (no odor, no sheen) (medium dense, wet)						
20													

Boring Completed 06/17/13  
Total Depth of Boring = 20.0 ft.

Point located at State Plane Coordinates:  
North: 466441.36  
East: 1641092.05

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
  2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
  3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

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Yakima Mill Site  
Yakima, WA

Log of Boring FPP-B15

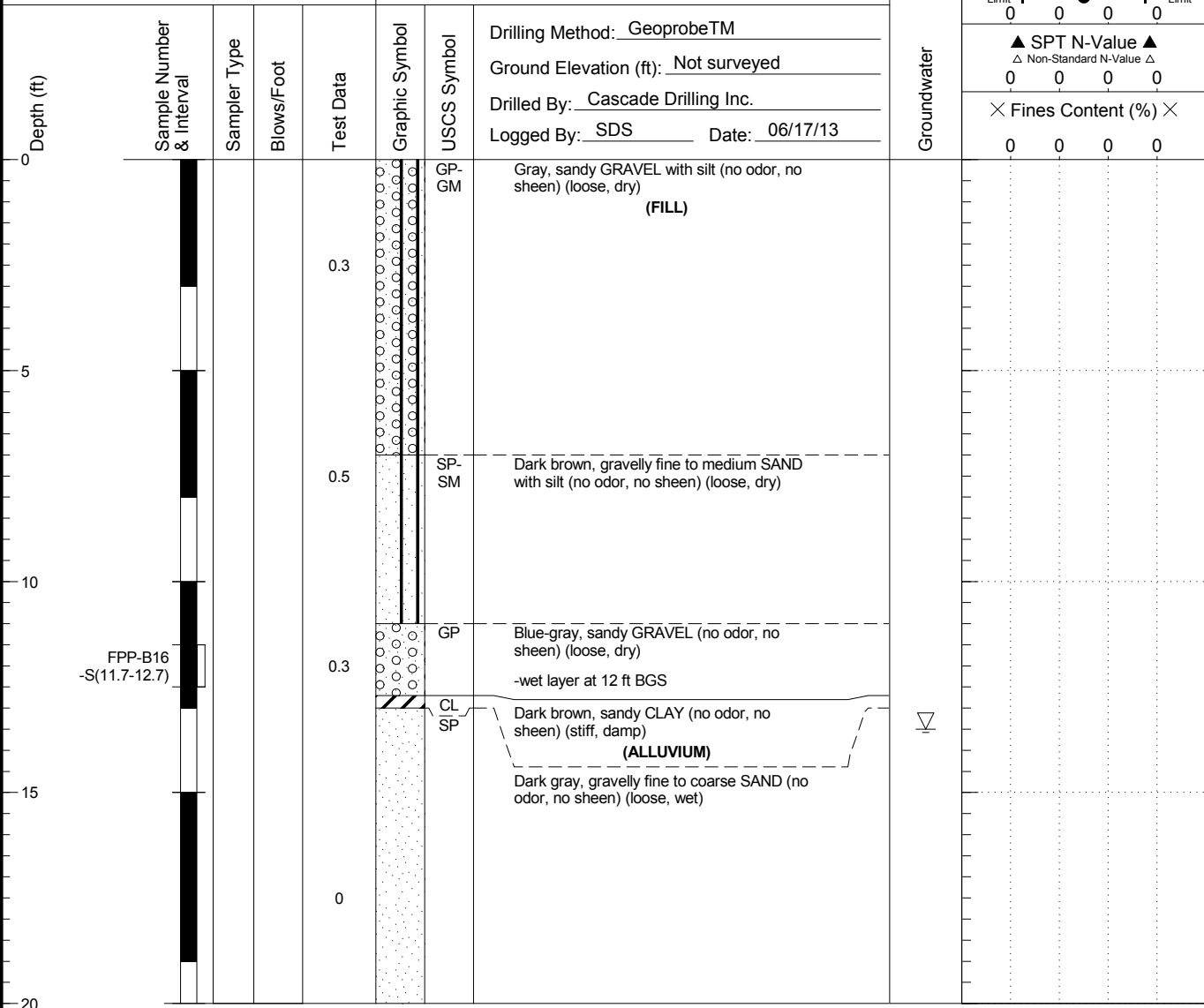
Figure  
B-16

# FPP-B16

LAI Project No: 1148007.010

## SAMPLE DATA

## SOIL PROFILE



Boring Completed 06/17/13  
Total Depth of Boring = 20.0 ft.

Point located at State Plane Coordinates:  
North: 466456.80  
East: 1641237.41

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
  2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
  3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

1148007.01 11/26/13 N:\PROJECTS\1148007.010.GPJ SOIL BORING LOG WITH GRAPH



Yakima Mill Site  
Yakima, WA

Log of Boring FPP-B16

Figure  
**B-17**

# FPP-B17

LAI Project No: 1148007.010

## SAMPLE DATA

## SOIL PROFILE

Moisture Content (%)			
Plastic Limit	-----●-----		Liquid Limit
0	0	0	0
▲ SPT N-Value ▲			
△ Non-Standard N-Value △			
0	0	0	0
× Fines Content (%) ×			
0	0	0	0

Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	Test Data	Graphic Symbol	USCS Symbol	Drilling Method: Geoprobe™	Groundwater
0							Ground Elevation (ft): Not surveyed	
							Drilled By: Cascade Drilling Inc.	
							Logged By: SDS Date: 06/21/13	
0 - 1.3	FPP-B17 -S(0.5-1.5)			1.3	(FILL)	GP SP	Brown sandy GRAVEL (no odor, no sheen) (loose, dry)	
1.3 - 5.5						SP	Brown to black gravelly SAND (faint petroleum-like odor, no sheen) (medium dense, damp)	
5.5 - 11.5						SP	Gray, gravelly SAND (no odor, no sheen) (loose, dry)	
11.5 - 16.5						GP	Mottled gray to brown sandy coarse GRAVEL with cobbles (no odor, no sheen) (loose, dry)	
16.5 - 20.0	FPP-B17 -S(16-17)			0.5	(ALLUVIUM)	ML GP	Dark gray, sandy SILT with gravel (no odor, no sheen) (dense, damp)	
							Dark gray, sandy GRAVEL (no odor, no sheen) (loose, damp)	

Boring Completed 06/21/13 Total Depth of Boring = 20.0 ft. Point located at State Plane Coordinates: North: 466889.42 East: 1641135.63

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
  2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
  3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

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Yakima Mill Site  
Yakima, WA

Log of Boring FPP-B17

Figure  
B-18

# FPP-B18

LAI Project No: 1148007.010

SAMPLE DATA				SOIL PROFILE			Groundwater	Moisture Content (%)			
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	Graphic Symbol	USCS Symbol	Drilling Method: Geoprobe™		Plastic Limit	Liquid Limit		SPT N-Value
0						Ground Elevation (ft): Not surveyed	0	0	0	▲	
						Drilled By: Cascade Drilling Inc.				△	
						Logged By: SDS Date: 06/19/13					
										×	
0					WD	Brown WOODWASTE material (no odor, no sheen) (loose, dry)					
					GP-GM	(FILL)					
			0		SM	Gray, sandy GRAVEL with silt (no odor, no sheen) (loose, dry)					
			0			Brown silty SAND with woodwaste debris (<10%) (no odor, no sheen) (loose, dry)					
5											
			0								
10					SP	Gray, gravelly SAND (no odor, no sheen) (loose, dry)					
						-grades brown, with a slight petroleum-like odor					
					GP	Gray sandy GRAVEL (no odor, no sheen) (loose, dry)					
15											
			0		GM	Dark gray, silty, sandy GRAVEL (slight petroleum-like odor, no sheen) (loose, wet) (ALLUVIUM)					
20											
25											

Boring Completed 06/19/13 Point located at State Plane Coordinates:  
 Total Depth of Boring = 25.0 ft. North: 466867.16  
 East: 1641359.46

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
  2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
  3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

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Yakima Mill Site  
Yakima, WA

Log of Boring FPP-B18

Figure  
**B-19**

# FPP-B19

LAI Project No: 1148007.010

SAMPLE DATA				SOIL PROFILE			Moisture Content (%)						
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	Test Data	Graphic Symbol	USCS Symbol	Plastic Limit			Liquid Limit			
							Drilling Method: <u>Geoprobe™</u> Ground Elevation (ft): <u>Not surveyed</u> Drilled By: <u>Cascade Drilling Inc.</u> Logged By: <u>SDS</u> Date: <u>06/19/13</u>						
0						WD	Brown WOODWASTE material (no odor, no sheen) (loose, damp)			0	0	0	0
				0		SP	Brown, silty fine to coarse SAND with gravel (no odor, no sheen) (loose, damp)			▲ SPT N-Value ▲ Δ Non-Standard N-Value Δ 0      0      0      0			
5				0			-unit interspersed with 3 minor (<2 inch) lenses of woodwaste material between 5 and 8 feet			× Fines Content (%) × 0      0      0      0			
				0						-green water in soil at top of water table (acid odor, no sheen)			
10	FPP-B19 -S(11-12)			0			Gray, fine to coarse SAND with gravel (no odor, no sheen) (loose, wet)						Groundwater 
				0						(ALLUVIUM)			
15				0									

Boring Completed 06/19/13      Point located at State Plane Coordinates:  
 Total Depth of Boring = 19.0 ft.      North: 466837.10  
    East: 1641072.86

- Notes: 1. Stratigraphic contacts are based on field interpretations and are approximate.  
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.  
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

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Yakima Mill Site  
Yakima, WA

Log of Boring FPP-B19

Figure  
**B-20**



# FPP-B20

LAI Project No: 1148007.010

## SAMPLE DATA

## SOIL PROFILE

Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	Test Data	Graphic Symbol	USCS Symbol	Drilling Method: Geoprobe™ Ground Elevation (ft): Not surveyed Drilled By: Cascade Drilling Inc. Logged By: SDS Date: 06/20/13	Groundwater	Moisture Content (%)					
									Plastic Limit	Liquor Limit		Liquid Limit		
0									▲ SPT N-Value ▲ △ Non-Standard N-Value △ 0 0 0 0					
									× Fines Content (%) × 0 0 0 0					
0 - 1.5				0		GP-GM								
1.5 - 4.5				0		SM								
4.5 - 6.5				0		WD								
6.5 - 9.5				0		SM								
9.5 - 15.0				0		WD								
15.0 - 20.0				0		SP								

Boring Completed 06/20/13  
 Total Depth of Boring = 20.0 ft.

Point located at State Plane Coordinates:  
 North: 466333.65  
 East: 1641193.23

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
  2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
  3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

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Yakima Mill Site  
 Yakima, WA

Log of Boring FPP-B20

Figure  
**B-21**

# FPP-B21

LAI Project No: 1148007.010

## SAMPLE DATA

## SOIL PROFILE

Moisture Content (%)			
Plastic Limit	-----●-----		Liquid Limit
0	0	0	0
▲ SPT N-Value ▲			
△ Non-Standard N-Value △			
0	0	0	0
× Fines Content (%) ×			
0	0	0	0

Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	Test Data	Graphic Symbol	USCS Symbol	Soil Description
0						SM	Brown, silty fine SAND with gravel (no odor, no sheen) (dense, damp) <b>(FILL)</b>
0			0			GP	Blue-gray, sandy GRAVEL (no odor, no sheen) (loose, dry)
0			0			GP-GM	Brown, sandy GRAVEL with silt (no odor, no sheen) (dense, damp) <b>(ALLUVIUM)</b>
0			0				-grades loose, wet

Groundwater



Boring Completed 06/20/13  
Total Depth of Boring = 20.0 ft.

Point located at State Plane Coordinates:  
North: 466266.22  
East: 1640821.41

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
  2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
  3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

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Yakima Mill Site  
Yakima, WA

Log of Boring FPP-B21

Figure  
**B-22**

# FPP-B22

LAI Project No: 1148007.010

## SAMPLE DATA

## SOIL PROFILE

Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	Test Data	Graphic Symbol	USCS Symbol	Drilling Method: Geoprobe™ Ground Elevation (ft): Not surveyed Drilled By: Cascade Drilling Inc. Logged By: SDS Date: 06/20/13	Groundwater	Moisture Content (%)				
									Plastic Limit	Liquid Limit			
0									▲ SPT N-Value ▲ Δ Non-Standard N-Value Δ 0 0 0 0				
									× Fines Content (%) × 0 0 0 0				
0 - 0.8					SP-SM WD SP-SM		Brown, fine to medium SAND with silt (no odor, no sheen) (medium dense, damp) (FILL) Dark brown WOODWASTE (slight petroleum-like odor, no sheen) (loose, damp)						
0.8 - 6.8				0.8			Brown, fine to medium SAND with silt (no odor, no sheen) (medium dense, damp)						
6.8 - 10.8				0.8		GP	Gray to brown mottled, sandy GRAVEL with cobbles (slight petroleum-like odor, no sheen) (loose, dry)						
10.8 - 15.0	FPP-B22-S(12.5-13.5)			1			-dark stained area (petroleum-like odor, light sheen)	▽					

Boring Completed 06/20/13  
Total Depth of Boring = 15.0 ft.

Point located at State Plane Coordinates:  
North: 466106.00  
East: 1640878.58

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
  2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
  3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

1148007.01 11/26/13 N:\PROJECTS\1148007.010.GPJ SOIL BORING LOG WITH GRAPH



Yakima Mill Site  
Yakima, WA

Log of Boring FPP-B22

Figure  
**B-23**

# FPP-B23

LAI Project No: 1148007.010

## SAMPLE DATA

## SOIL PROFILE

Moisture Content (%)			
Plastic Limit	-----●-----		Liquid Limit
0	0	0	0
▲ SPT N-Value ▲			
△ Non-Standard N-Value △			
0	0	0	0
× Fines Content (%) ×			
0	0	0	0

Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	Test Data	Graphic Symbol	USCS Symbol	Soil Description
0							Drilling Method: Geoprobe™ Ground Elevation (ft): Not surveyed Drilled By: Cascade Drilling Inc. Logged By: SDS Date: 06/20/13
0 - 4.5			0		(Pattern of small circles)	GP-GM	Brown, sandy GRAVEL with silt (no odor, no sheen) (loose, dry) <b>(FILL)</b>
4.5 - 11.5			0		(Pattern of small circles)	GP	Gray to brown mottled sandy GRAVEL with cobbles (no odor, no sheen) (loose, dry)
11.5 - 15.0	FPP-B23-S(11.5-12.5)		0		(Pattern of small circles)	SP-SM	Brown, gravelly SAND with silt (no odor, no sheen) (loose, wet)

Groundwater

▽

Boring Completed 06/20/13  
Total Depth of Boring = 15.0 ft.

Point located at State Plane Coordinates:  
North: 465822.60  
East: 1640968.44

1148007.01 11/26/13 N:\PROJECTS\1148007.010.GPJ SOIL BORING LOG WITH GRAPH

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
  2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
  3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.



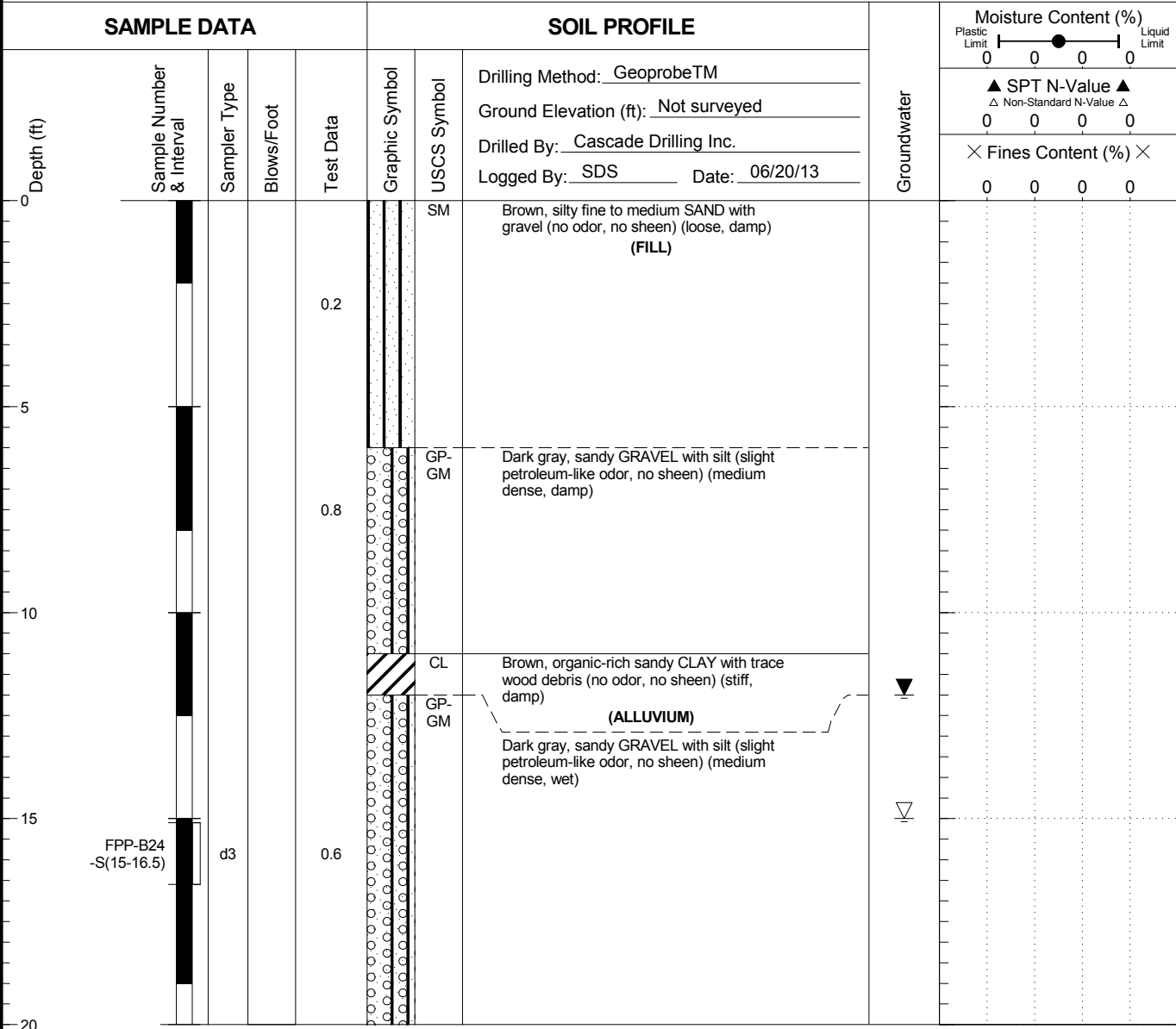
Yakima Mill Site  
Yakima, WA

Log of Boring FPP-B23

Figure  
**B-24**

## FPP-B24

LAI Project No: 1148007.010



Boring Completed 06/20/13      Point located at State Plane Coordinates:  
 Total Depth of Boring = 20.0 ft.      North: 466346.22  
    East: 1641173.07

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
  2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
  3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

1148007.01 11/26/13 N:\PROJECTS\1148007.010.GPJ SOIL BORING LOG WITH GRAPH



Yakima Mill Site  
Yakima, WA

Log of Boring FPP-B24

Figure  
**B-25**

# FPP-B25

LAI Project No: 1148007.010

## SAMPLE DATA

## SOIL PROFILE

Moisture Content (%)			
Plastic Limit	-----●-----		Liquid Limit
0	0	0	0
▲ SPT N-Value ▲			
△ Non-Standard N-Value △			
0	0	0	0
× Fines Content (%) ×			
0	0	0	0

Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	Test Data	Graphic Symbol	USCS Symbol	Drilling Method: Geoprobe™	Ground Elevation (ft): Not surveyed	Drilled By: Cascade Drilling Inc.	Logged By: SDS Date: 08/21/13
0						GP	Gray to brown mottled, very sandy GRAVEL with cobbles (no odor, no sheen) (loose, dry)			
							(FILL)			
5						GP	Gray to brown mottled, very sandy GRAVEL with cobbles (slight petroleum-like odor, no sheen) (loose, dry)			
			0.1							
10						SP	Brown, gravelly, fine to medium SAND (no odor, no sheen) (medium dense, dry)			
						GP	Gray to brown mottled, sandy GRAVEL with cobbles (no odor, no sheen) (medium dense, dry)			
			0.0							
15	FPP-B25-S(15-16)	d3				SP-SM	Brown, gravelly, fine to medium SAND with silt (no odor, no sheen) (medium dense, damp)			
						GP	Gray, sandy GRAVEL (no odor, no sheen) (loose, wet)			
							(ALLUVIUM)			

Groundwater  
14.5 ft During Groundwater Sample Collection  
17.0 ft ATD

Boring Completed 08/21/13  
Total Depth of Boring = 20.0 ft.

Point located at State Plane Coordinates:  
North: 466827.49  
East: 1641033.50

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
  2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
  3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

1148007.01 11/26/13 N:\PROJECTS\1148007.010.GPJ SOIL BORING LOG WITH GRAPH



Yakima Mill Site  
Yakima, WA

Log of Boring FPP-B25

Figure  
**B-26**

# FPP-B26

LAI Project No: 1148007.010

SAMPLE DATA				SOIL PROFILE		Groundwater	Moisture Content (%)					
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	Test Data	Graphic Symbol		USCS Symbol	Drilling Method: Geoprobe™	Ground Elevation (ft): Not surveyed	Drilled By: Cascade Drilling Inc.	Logged By: SDS Date: 08/21/13	Plastic Limit
0						GP-GM	Brown, sandy GRAVEL with silt (no odor, no sheen) (loose, dry) <b>(FILL)</b>				0	0
0.2						SP	Dark gray, fine to medium SAND with gravel (no odor, no sheen) (loose, damp)				0	0
0.3						SP	Dark gray, fine to medium SAND with gravel (grades very gravelly fine to medium SAND) (no odor, no sheen) (loose, damp)				0	0
15	FPP-B26 -S(15-16)	d3				GP-GM	Gray, sandy GRAVEL with silt (no odor, no sheen) (loose, wet) <b>(ALLUVIUM)</b>				0	0

Boring Completed 08/21/13  
Total Depth of Boring = 20.0 ft.

Point located at State Plane Coordinates:  
North: 466765.50  
East: 1641024.38

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
  2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
  3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

1148007.01 11/26/13 N:\PROJECTS\1148007.010.GPJ SOIL BORING LOG WITH GRAPH



Yakima Mill Site  
Yakima, WA

Log of Boring FPP-B26

Figure  
**B-27**

# FPP-B27

LAI Project No: 1148007.010

## SAMPLE DATA

## SOIL PROFILE

Moisture Content (%)			
Plastic Limit	-----●-----		Liquid Limit
0	0	0	0
▲ SPT N-Value ▲			
△ Non-Standard N-Value △			
0	0	0	0
× Fines Content (%) ×			
0	0	0	0

Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	Test Data	Graphic Symbol	USCS Symbol	Soil Description
0						SM	Brown, silty, fine to medium SAND with gravel (no odor, no sheen) (loose, damp)
						GP-GM	(FILL) Gray, sandy GRAVEL with silt (no odor, no sheen) (loose, damp)
5	FPP-B27-S(5-6)	d3		0.0		GP-GM	Brown, sandy GRAVEL with silt (no odor, no sheen) (loose, wet) (ALLUVIUM)
10						GP-GM	Gray, sandy GRAVEL with silt (no odor, no sheen) (dense, wet)
15				0.0		GP-GM	Gray, sandy GRAVEL with silt (no odor, no sheen) - gravel ranges up to cobbles (~3 inches) (medium dense, wet)

Groundwater

13.0 ft During Groundwater Sample Collection 5.0 ft ATD

Boring Completed 08/21/13  
Total Depth of Boring = 20.0 ft.

Point located at State Plane Coordinates:  
North: 466717.49  
East: 1641125.16

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
  2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
  3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

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Yakima Mill Site  
Yakima, WA

Log of Boring FPP-B27

Figure  
**B-28**



# FPP-B28

LAI Project No: 1148007.010

## SAMPLE DATA

## SOIL PROFILE

Moisture Content (%)			
Plastic Limit	-----●-----		Liquid Limit
0	0	0	0
▲ SPT N-Value ▲			
△ Non-Standard N-Value △			
0	0	0	0
× Fines Content (%) ×			
0	0	0	0

Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	Test Data	Graphic Symbol	USCS Symbol	Soil Description
0							Drilling Method: Geoprobe™ Ground Elevation (ft): Not surveyed Drilled By: Cascade Drilling Inc. Logged By: SDS Date: 08/23/13
0						SM	Brown, silty, fine to medium SAND with gravel (no odor, no sheen) (loose, damp) <b>(FILL)</b>
0						GP	Gray to brown mottled, sandy GRAVEL with cobbles (no odor, no sheen) (loose, dry)
5						GP	Gray to brown mottled, sandy GRAVEL with cobbles (slight petroleum-like odor, no sheen) (loose, dry)
10				0.0		GP	Gray to brown mottled, sandy GRAVEL with cobbles (slight petroleum-like odor, no sheen) (loose, dry)
10						SM	Brown, silty fine to medium SAND with gravel (slight petroleum-like odor, no sheen) (loose, damp)
15	FPP-B28-S(15-16)	d3		0.1		GP-GM	Gray, sandy GRAVEL with silt (strong petroleum-like odor, slight sheen) (loose, wet) <b>(ALLUVIUM)</b>
15				1.6		GP-GM	
20				0.1		GP-GM	

Groundwater

15.0 ft During Groundwater Sample Collection

Boring Completed 08/23/13 Point located at State Plane Coordinates:  
Total Depth of Boring = 20.0 ft. North: 466852.86  
East: 1641207.79

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
  2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
  3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

1148007.01 11/26/13 N:\PROJECTS\1148007.010.GPJ SOIL BORING LOG WITH GRAPH



Yakima Mill Site  
Yakima, WA

Log of Boring FPP-B28

Figure  
**B-29**

# FPP-B29

LAI Project No: 1148007.010

SAMPLE DATA				SOIL PROFILE			Moisture Content (%)						
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	Graphic Symbol	USCS Symbol	Soil Description	Groundwater	Plastic Limit					
								Liquid Limit					
						Drilling Method: Geoprobe™		▲ SPT N-Value ▲ △ Non-Standard N-Value △					
						Ground Elevation (ft): Not surveyed		× Fines Content (%) ×					
						Drilled By: Cascade Drilling Inc.							
						Logged By: SDS Date: 08/22/13							
0					SM	Brown, silty, fine to coarse SAND with gravel (no odor, no sheen) (loose, damp) (FILL)							
5					SP	Gray, fine to coarse SAND with gravel (no odor, no sheen) (loose, damp)							
					GP	Gray to brown mottled, sandy GRAVEL with cobbles (no odor, no sheen) (loose, dry)							
10					GP	Gray, sandy GRAVEL (pea gravel) (very slight petroleum-like odor, some sheen) (loose, dry)	10.0 ft ATD						
15			0.0										

Boring Completed 08/22/13  
Total Depth of Boring = 15.0 ft.

Point located at State Plane Coordinates:  
North: 466869.04  
East: 1641291.97

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
  2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
  3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

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Yakima Mill Site  
Yakima, WA

Log of Boring FPP-B29

Figure  
B-30

# FPP-B29a

LAI Project No: 1148007.010

SAMPLE DATA				SOIL PROFILE			Groundwater	Moisture Content (%)			
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	Graphic Symbol	USCS Symbol	Drilling Method: Geoprobe™		Plastic Limit	Liquid Limit		SPT N-Value
0					SM	Dark, brown silty fine to coarse SAND with gravel (strong burnt odor, no sheen) (loose, damp) <b>(FILL)</b>	0	0	0	0	▲
1.4					GP	Gray to brown mottled, sandy GRAVEL with cobbles (no odor, no sheen) (loose, damp)	0	0	0	0	▲
5					GP	Gray to brown mottled, sandy GRAVEL with cobbles (no odor, no sheen) (loose, damp)	0	0	0	0	▲
10					GP	Gray to brown mottled, sandy GRAVEL with cobbles (no odor, no sheen) (loose, damp)	0	0	0	0	▲
15	FPP-B29a -S(15-16)	d3			GP	Brown, sandy GRAVEL (petroleum-like odor, sheen) (loose, damp)	0	0	0	0	▲
16					ML	<b>(ALLUVIUM)</b> -brown, viscous free-product at 16 ft BGS	0	0	0	0	▲
17					ML	Gray, sandy SILT (petroleum-like odor, no sheen) (medium stiff, damp)	0	0	0	0	▲
20					SM	Dark brown, silty, fine SAND with gravel (strong petroleum-like odor, heavy sheen) (medium dense, wet)	0	0	0	0	▲
25					SM	Dark brown, silty, fine SAND with gravel (strong petroleum-like odor, heavy sheen) (medium dense, wet)	0	0	0	0	▲

Boring Completed 08/22/13      Point located at State Plane Coordinates:  
 Total Depth of Boring = 25.0 ft.      North: 466870.76  
 East: 1641281.74

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
  2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
  3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

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Yakima Mill Site  
Yakima, WA

Log of Boring FPP-B29a

Figure  
**B-31**

# FPP-B29b

LAI Project No: 1148007.010

## SAMPLE DATA

## SOIL PROFILE

Moisture Content (%)			
Plastic Limit	-----●-----		Liquid Limit
0	0	0	0
▲ SPT N-Value ▲			
△ Non-Standard N-Value △			
0	0	0	0
× Fines Content (%) ×			
0	0	0	0

Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	Test Data	Graphic Symbol	USCS Symbol	Drilling Method: Geoprobe™	Ground Elevation (ft): Not surveyed	Drilled By: Cascade Drilling Inc.	Logged By: SDS Date: 08/23/13
0						WD	Brown WOODWASTE material (no odor, no sheen) (loose, dry)			
						(FILL)				
						GP	Brown to gray mottled sandy GRAVEL with cobbles (no odor, no sheen) (loose, dry)			
5										
				0.0						
10										
				0.9						
15	FPP-B29b -S(15-16)	d3				GP	Dark brown, sandy GRAVEL (strong petroleum-like odor, sheen) (loose, wet)			
						ML	(ALLUVIUM) -viscous, brown, free-product at 16 ft BGS			
				1.3			Gray, sandy SILT (strong petroleum-like odor, sheen) (medium dense, wet)			
20										
				0.8						
25										

Groundwater

15.5 ft AT During Groundwater Sample Collection

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Boring Completed 08/23/13 Point located at State Plane Coordinates:  
 Total Depth of Boring = 25.0 ft. North: 466862.97  
 East: 1641319.02

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
  2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
  3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.



Yakima Mill Site  
Yakima, WA

Log of Boring FPP-B29b

Figure  
**B-32**

# FPP-B29c

LAI Project No: 1148007.010

## SAMPLE DATA

## SOIL PROFILE

Moisture Content (%)			
Plastic Limit	-----●-----		Liquid Limit
0	0	0	0
▲ SPT N-Value ▲			
△ Non-Standard N-Value △			
0	0	0	0
× Fines Content (%) ×			
0	0	0	0

Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	Test Data	Graphic Symbol	USCS Symbol	Soil Description
0							Drilling Method: Geoprobe™ Ground Elevation (ft): Not surveyed Drilled By: Cascade Drilling Inc. Logged By: SDS Date: 08/23/13
0 - 1.5					SM		Brown, silty fine to medium SAND (no odor, no sheen) (loose, damp)
1.5 - 2.5					PC		(FILL)
2.5 - 3.5					GP-GM		Concrete
3.5 - 5.0					GP		Brown, sandy GRAVEL with silt (no odor, no sheen) (loose, damp)
5.0 - 10.0				0.0	GP		Greenish-gray, sandy GRAVEL (petroleum-like odor, no sheen) (loose, damp)
10.0 - 15.0				0.0	GP		Gray to brown mottled, sandy GRAVEL with cobbles (slight petroleum-like odor, no sheen) (loose, dry)
15.0 - 20.0	FPP-B29c -S(15-16)	d3		0.2	SM		Gray sandy SILT (strong petroleum-like odor, sheen) (medium stiff, damp) (ALLUVIUM)

Groundwater

Groundwater Not Encountered

Boring Completed 08/23/13  
Total Depth of Boring = 20.0 ft.

Point located at State Plane Coordinates:  
North: 466901.67  
East: 1641249.56

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
  2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
  3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

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Yakima Mill Site  
Yakima, WA

Log of Boring FPP-B29c

Figure  
**B-33**

# FPP-B30

LAI Project No: 1148007.010

## SAMPLE DATA

## SOIL PROFILE

Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	Test Data	Graphic Symbol	USCS Symbol	Drilling Method: Geoprobe™ Ground Elevation (ft): Not surveyed Drilled By: Cascade Drilling Inc. Logged By: SDS Date: 08/22/13	Groundwater	Moisture Content (%)			
									Plastic Limit	Liquid Limit		
0				0.0		GP-GM	Dark gray, sandy GRAVEL with silt (no odor, no sheen) (loose, damp) <b>(FILL)</b>	Groundwater	▲ SPT N-Value ▲ △ Non-Standard N-Value △ 0 0 0 0			
						GP	Mottled gray and light gray, sandy GRAVEL with cobbles (no odor, no sheen) (loose, dry)	Groundwater Not Encountered	× Fines Content (%) × 0 0 0 0			
5						SM	Gray, silty fine to coarse SAND with gravel (no odor, no sheen) (loose, dry)					
						GP	Gray to brown mottled sandy GRAVEL with cobbles (no odor, no sheen) (loose, dry)					
						GP	Dark gray, sandy GRAVEL (no odor, no sheen) (loose, dry)					
						GP	Gray to brown mottled sandy GRAVEL with cobbles (no odor, no sheen) (loose, dry)					
15	FPP-B30 -S(14-15)	d3				CL	Dark brown, silty CLAY (no odor, no sheen) (stiff, damp) <b>(ALLUVIUM)</b>					

Boring Completed 08/22/13  
Total Depth of Boring = 20.0 ft.

Point located at State Plane Coordinates:  
North: 466758.21  
East: 1641336.69

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
  2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
  3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

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Yakima Mill Site  
Yakima, WA

Log of Boring FPP-B30

Figure  
**B-34**

# FPP-B31

LAI Project No: 1148007.010

## SAMPLE DATA

## SOIL PROFILE

Moisture Content (%)			
Plastic Limit	-----●-----		Liquid Limit
0	0	0	0
▲ SPT N-Value ▲			
△ Non-Standard N-Value △			
0	0	0	0
× Fines Content (%) ×			
0	0	0	0

Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	Test Data	Graphic Symbol	USCS Symbol	Soil Profile Description	
							Drilling Method: Geoprobe™	Ground Elevation (ft): Not surveyed
0							Drilled By: Cascade Drilling Inc.	Logged By: SDS Date: 08/22/13
0 - 1.5					SM		Brown, silty, fine to medium SAND with gravel (slight petroleum-like odor, no sheen) (loose, damp)	
1.5 - 2.5					WD		(FILL)	
2.5 - 3.5					GP		Brown WOODWASTE material (100%) (no odor, no sheen) (loose, damp)	
3.5 - 6.1					GP		Gray, sandy GRAVEL with crushed cobbles (no odor, no sheen) (loose, dry)	
6.1 - 9.0				6.1 9.0	SM		Dark brown, silty, fine to medium SAND (petroleum-like odor, no sheen) (loose, damp)	
9.0 - 15.0					SM		Gray, silty fine SAND (slight petroleum-like odor, no sheen) (medium dense, damp)	
15.0 - 17.0	FPP-B31-S(15-16)	d3	0.0	0.0	GP		Gray, sandy GRAVEL (slight odor, no sheen) (dense, damp)	
17.0 - 20.0				0.0	SM		Gray, silty fine SAND with gravel (no odor, no sheen) (loose, wet)	

Groundwater

17.0 ft ATD 15.0 ft During Groundwater Sample Collection

Boring Completed 08/22/13  
 Total Depth of Boring = 20.0 ft.  
 Point located at State Plane Coordinates:  
 North: 466635.82  
 East: 1641409.93

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
  2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
  3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

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Yakima Mill Site  
 Yakima, WA

Log of Boring FPP-B31

Figure  
**B-35**

# FPP-B32

LAI Project No: 1148007.010

SAMPLE DATA				SOIL PROFILE			Moisture Content (%) Plastic Limit   Liquid Limit
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	Test Data	Graphic Symbol	USCS Symbol	
0							Drilling Method: Geoprobe™ Ground Elevation (ft): Not surveyed Drilled By: Cascade Drilling Inc. Logged By: SDS Date: 08/22/13
0 - 15	FPP-B32-S(15-16)	d3				GP	Brown, sandy GRAVEL (no odor, no sheen) (loose, dry) (FILL)
5						GP	Brown, sandy GRAVEL (no odor, no sheen) (loose, dry)
10						GP-GM	Brown, sandy GRAVEL with silt (no odor, no sheen) (loose, damp)
10						GP	Brown, sandy GRAVEL (no odor, no sheen) (medium dense, dry)
15						GP-GM	Brown, sandy GRAVEL with silt (no odor, no sheen) (medium dense, damp)
15						GP-GM	Brown, sandy GRAVEL with silt (no odor, no sheen) (medium dense, damp) (ALLUVIUM)
20						ML	Black SILT with trace sand and gravel (no odor, no sheen) (dense, damp)

Groundwater  
16.5 ft ATD

Moisture Content (%)	Plastic Limit	Liquid Limit
0 0 0 0		
▲ SPT N-Value ▲	△ Non-Standard N-Value △	
0 0 0 0		
× Fines Content (%) ×		
0 0 0 0		

Boring Completed 08/22/13  
 Total Depth of Boring = 20.0 ft.  
 Point located at State Plane Coordinates:  
 North: 466590.63  
 East: 1640876.66

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
  2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
  3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

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Yakima Mill Site  
Yakima, WA

Log of Boring FPP-B32

Figure  
**B-36**



# FPP-B33

LAI Project No: 1148007.010

## SAMPLE DATA

## SOIL PROFILE

Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	Test Data	Graphic Symbol	USCS Symbol	Soil Description	Groundwater	Moisture Content (%)			
									Plastic Limit	Liquid Limit		
0							Drilling Method: Geoprobe™ Ground Elevation (ft): Not surveyed Drilled By: Cascade Drilling Inc. Logged By: SDS Date: 08/22/13		▲ SPT N-Value ▲ Δ Non-Standard N-Value Δ × Fines Content (%) ×			
0 - 10	FPP-B33-S(10-11)	d3		0.0		GP	Brown, sandy GRAVEL (no odor, no sheen) (loose, dry) <b>(FILL)</b>	15.0 ft During Groundwater Sample Collection	0	0	0	0
10 - 15						GP	Gray GRAVEL with cobbles and trace sand (no odor, no sheen) (loose, dry)		0	0	0	0
15 - 20						ML	Gray, sandy SILT with gravel (no odor, no sheen) (dense, wet)		0	0	0	0

Boring Completed 08/22/13  
Total Depth of Boring = 20.0 ft.

Point located at State Plane Coordinates:  
North: 466447.12  
East: 1640923.26

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
  2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
  3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

1148007.01 11/26/13 N:\PROJECTS\1148007.010.GPJ SOIL BORING LOG WITH GRAPH



Yakima Mill Site  
Yakima, WA

Log of Boring FPP-B33

Figure  
**B-37**

# FPP-B34

LAI Project No: 1148007.010

SAMPLE DATA				SOIL PROFILE			Groundwater	Moisture Content (%)				
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	Test Data	Graphic Symbol	USCS Symbol		Drilling Method: Geoprobe™	Ground Elevation (ft): Not surveyed	Drilled By: Cascade Drilling Inc.	Logged By: SDS Date: 08/22/13	Plastic Limit
0						GP	Brown to gray mottled, sandy GRAVEL with cobbles (no odor, no sheen) (dense, dry) <b>(FILL)</b>				0	0
5						GP	Brown to gray mottled, sandy GRAVEL with cobbles (no odor, no sheen) (dense, dry)				0	0
10						GP	Gray to brown mottled, sandy GRAVEL with cobbles (no odor, no sheen) (medium dense, dry)				0	0
15	FPP-B34-S(15-16)	d3				GP	Brown, fine to coarse, sandy GRAVEL with cobbles (no odor, no sheen) (loose, damp) <b>(ALLUVIUM)</b>				0	0
16.0						GP	Brown to gray mottled, sandy GRAVEL with cobbles (no odor, no sheen) (medium dense, wet)				0	0

Boring Completed 08/22/13  
Total Depth of Boring = 20.0 ft.

Point located at State Plane Coordinates:  
North: 466760.33  
East: 1641143.44

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
  2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
  3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

1148007.01 11/26/13 N:\PROJECTS\1148007.010.GPJ SOIL BORING LOG WITH GRAPH



Yakima Mill Site  
Yakima, WA

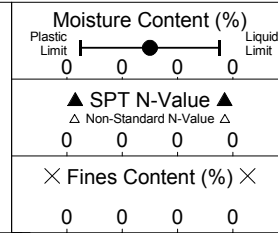
Log of Boring FPP-B34

Figure  
**B-38**

TP-B01

LAI Project No: 1148007.010

SAMPLE DATA				SOIL PROFILE					
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	Test Data	Graphic Symbol	USCS Symbol	Drilling Method: Geoprobe™		
							Ground Elevation (ft): Not surveyed		
							Drilled By: Cascade Drilling Inc.		
							Logged By: SDS Date: 06/21/13		
0 5 10 15 20	TP-B01-S(1-2)	d3	0.0	0.0		GP-GM SM	Brown, sandy GRAVEL with silt (no odor, no sheen) (loose, dry)		
							(FILL) Brown, silty fine SAND with gravel (no odor, no sheen) (loose, damp)		
	TP-B01-S(6.5-7.5)	d3	0.0	0.0		GP-GM SP-SM	Brown, sandy GRAVEL with silt (no odor, no sheen) (loose, damp)		
							Brown, gravelly, fine to medium SAND with silt (no odor, no sheen) (loose, wet)		
							GP-GM SP-SM	Brown, sandy GRAVEL with silt (no odor, no sheen) (loose, wet)	
								(ALLUVIUM) Brown, gravelly, fine to coarse SAND with silt (no odor, no sheen) (loose, wet)	
						GP-GM	Brown, sandy GRAVEL with silt (no odor, no sheen) (loose, wet)		



Groundwater  
15.0 ft During Groundwater Sample Collection ft ATD

Boring Completed 06/21/13  
Total Depth of Boring = 20.0 ft.  
Point located at State Plane Coordinates:  
North: 467011.16  
East: 1640728.63

- Notes: 1. Stratigraphic contacts are based on field interpretations and are approximate.  
2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.  
3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

1148007.01 11/26/13 N:\PROJECTS\1148007.010.GPJ SOIL BORING LOG WITH GRAPH



Yakima Mill Site  
Yakima, WA

Log of Boring TP-B01

Figure  
B-39

# TP-B02

LAI Project No: 1148007.010

SAMPLE DATA				SOIL PROFILE			Moisture Content (%)																
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	Test Data	Graphic Symbol	USCS Symbol	Plastic Limit <span style="font-size: small;"> </span> Liquid Limit																
							Groundwater																
							▲ SPT N-Value ▲ △ Non-Standard N-Value △																
							× Fines Content (%) ×																
0							0	0	0	0													
5				0.0	○	GP	Brown, coarse GRAVEL (no odor, no sheen) (loose, dry) <b>(FILL)</b>																
10				0.0	○	GP-GM	Brown, sandy GRAVEL with silt (no odor, no sheen) (loose, dry)																
15				0.0	○	GP-GM	Mottled brown to gray, sandy GRAVEL with silt and cobbles (no odor, no sheen) (loose, dry)																
15	TP-B02-S(13-14)	d3		0.0	○						▽	14.0 ft ATD											

Boring Completed 06/20/13      Point located at State Plane Coordinates:  
 Total Depth of Boring = 15.0 ft.      North: 466986.52  
    East: 1640754.28

- Notes: 1. Stratigraphic contacts are based on field interpretations and are approximate.  
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.  
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

1148007.01 11/26/13 N:\PROJECTS\1148007.010.GPJ SOIL BORING LOG WITH GRAPH



Yakima Mill Site  
Yakima, WA

Log of Boring TP-B02

Figure  
**B-40**

# TP-B03

LAI Project No: 1148007.010

## SAMPLE DATA

## SOIL PROFILE

Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	Test Data	Graphic Symbol	USCS Symbol	Drilling Method: Geoprobe™	
							Ground Elevation (ft): Not surveyed	Drilled By: Cascade Drilling Inc.
							Logged By: SDS Date: 06/20/13	
0							Groundwater	Moisture Content (%) Plastic Limit   Liquid Limit 0 0 0 0
								▲ SPT N-Value ▲ △ Non-Standard N-Value △ 0 0 0 0
								× Fines Content (%) × 0 0 0 0
0.0					[SP-SM SP]			
0.0					[GP-GM]			
5								
0.0					[SP-SM]			
0.0					[GP]			
10								
0.0					[GP]			
15								
0.0					[GP-GM]			
20								
0.0								

Boring Completed 06/20/13 Point located at State Plane Coordinates:  
 Total Depth of Boring = 20.0 ft. North: 467008.70  
 East: 1640776.40

- Notes: 1. Stratigraphic contacts are based on field interpretations and are approximate.  
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.  
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

1148007.01 11/26/13 N:\PROJECTS\1148007.010.GPJ SOIL BORING LOG WITH GRAPH




Yakima Mill Site  
 Yakima, WA

Log of Boring TP-B03

Figure  
**B-41**

# TP-B04

LAI Project No: 1148007.010

SAMPLE DATA				SOIL PROFILE				
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	Graphic Symbol	USCS Symbol	Drilling Method: <u>Geoprobe™</u> Ground Elevation (ft): <u>Not surveyed</u> Drilled By: <u>Cascade Drilling Inc.</u> Logged By: <u>SDS</u> Date: <u>06/20/13</u>	Groundwater	Moisture Content (%) Plastic Limit      Liquid Limit 0      0      0      0
	TP-B04 -S(2-3)	d3	3.0		Brown, fine to medium SAND with gravel (no odor, no sheen) (loose, dry) (FILL) Black, stained, silty fine to medium SAND with gravel (strong petroleum-like odor, heavy sheen) (medium dense, damp)	▲ SPT N-Value ▲ Δ Non-Standard N-Value Δ 0      0      0      0		
							Groundwater Not Encountered	× Fines Content (%) × 0      0      0      0

Boring Completed 06/20/13  
Total Depth of Boring = 5.0 ft.

Point located at State Plane Coordinates:  
North: 467000.66  
East: 1640827.96

1148007.01 11/26/13 N:\PROJECTS\1148007.010.GPJ SOIL BORING LOG WITH GRAPH

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
  2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
  3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.



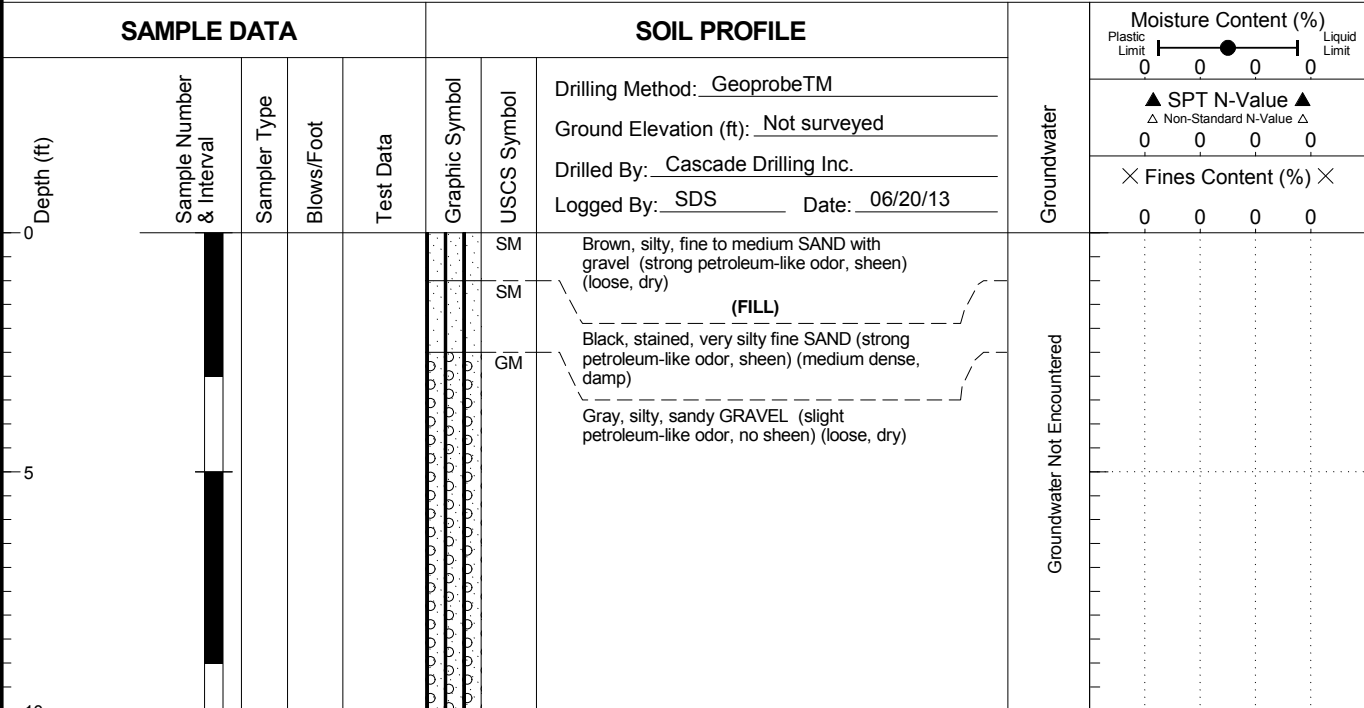
Yakima Mill Site  
Yakima, WA

Log of Boring TP-B04

Figure  
**B-42**

**TP-B04a**

LAI Project No: 1148007.010



Boring Completed 06/20/13      Point located at State Plane Coordinates:  
 Total Depth of Boring = 10.0 ft.      North: 466997.01  
    East: 1640835.67

1148007.01 11/26/13 N:\PROJECTS\1148007.010.GPJ SOIL BORING LOG WITH GRAPH

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
  2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
  3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.



Yakima Mill Site  
 Yakima, WA

Log of Boring TP-B04a

Figure  
**B-43**

# TP-B04b

LAI Project No: 1148007.010

## SAMPLE DATA

## SOIL PROFILE

Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	Test Data	Graphic Symbol	USCS Symbol	Drilling Method: <u>Geoprobe™</u> Ground Elevation (ft): <u>Not surveyed</u> Drilled By: <u>Cascade Drilling Inc.</u> Logged By: <u>SDS</u> Date: <u>06/20/13</u>	Groundwater
------------	--------------------------	--------------	------------	-----------	----------------	-------------	--	-------------

Moisture Content (%)

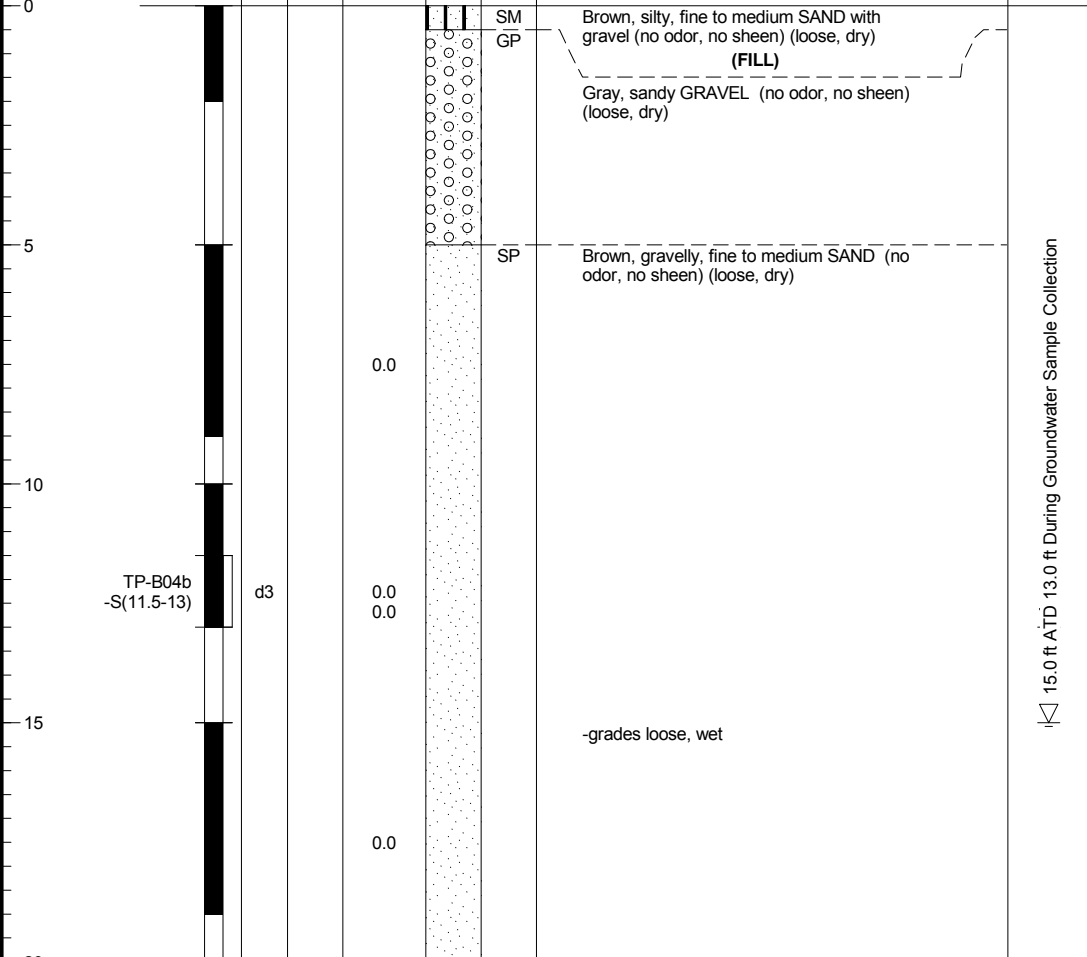
Plastic Limit |-----●-----| Liquid Limit  
 0     0     0     0

▲ SPT N-Value ▲  
△ Non-Standard N-Value △

0     0     0     0

× Fines Content (%) ×

0     0     0     0



	15.0 ft ATD	13.0 ft	During Groundwater Sample Collection			
--	-------------	---------	--------------------------------------	--	--	--

Boring Completed 06/20/13     Point located at State Plane Coordinates:  
 Total Depth of Boring = 20.0 ft.     North: 466994.14  
    East: 1640844.13

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
  2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
  3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

1148007.01 11/26/13 N:\PROJECTS\1148007.010.GPJ SOIL BORING LOG WITH GRAPH



Yakima Mill Site  
Yakima, WA

Log of Boring TP-B04b

Figure  
**B-44**



**TP-B05**

LAI Project No: 1148007.010

**SAMPLE DATA**

**SOIL PROFILE**

Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	Test Data	Graphic Symbol	USCS Symbol	Drilling Method: <u>Geoprobe™</u> Ground Elevation (ft): <u>Not surveyed</u> Drilled By: <u>Cascade Drilling Inc.</u> Logged By: <u>SDS</u> Date: <u>06/20/13</u>	Groundwater	Moisture Content (%)					
									Plastic Limit	Liquidity		Liquid Limit		
									▲ SPT N-Value ▲ △ Non-Standard N-Value △ 0    0    0    0					
									× Fines Content (%) × 0    0    0    0					
0						GP-GM	Gray, sandy GRAVEL with silt (no odor, no sheen) (loose, dry)							
						WD	(FILL) Brown WOODWASTE with minor dark brown silty fine sand (no odor, no sheen) (loose, damp)							
5						GP-GM	Gray, sandy GRAVEL with silt (no odor, no sheen) (loose, dry)							
						WD	Brown WOODWASTE with minor dark brown silty fine sand (no odor, no sheen) (loose, damp)							
10														
15														
20						GM	Brown, silty GRAVEL with sand (no odor, no sheen) (loose, wet) (ALLUVIUM)							

Boring Completed 06/20/13    Point located at State Plane Coordinates:  
 Total Depth of Boring = 20.0 ft.    North: 467037.90  
 East: 1640884.36

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
  2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
  3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

1148007.01 11/26/13 N:\PROJECTS\1148007.010.GPJ SOIL BORING LOG WITH GRAPH



Yakima Mill Site  
Yakima, WA

Log of Boring TP-B05

Figure  
**B-45**

TP-B06

LAI Project No: 1148007.010

SAMPLE DATA

SOIL PROFILE

Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	Test Data	Graphic Symbol	USCS Symbol	Drilling Method: GeoprobeTM	
							Ground Elevation (ft): Not surveyed	
							Drilled By: Cascade Drilling Inc.	
							Logged By: SDS Date: 06/20/13	
0							Brown WOODWASTE with minor dark brown silty fine sand (no odor, no sheen) (loose, damp)	
				0.0	(FILL)		Dark brown, silty, fine SAND with brown woodwaste material (no odor, no sheen) (loose, dry)	
5							Dark gray, fine SAND with gravel (no odor, no sheen) (medium dense, damp)	
				0.0		WD	Brown WOODWASTE (no odor, no sheen) (loose, damp)	
10								
				0.0		SP	Dark gray, fine SAND with gravel (no odor, no sheen) (loose, damp)	
15	TP-B06-S(13.5-14.5)	d3					-grades loose, wet	
				0.0			-grades very gravelly	

Moisture Content (%)			
Plastic Limit	0 0 0 0		Liquid Limit
▲ SPT N-Value ▲			
△ Non-Standard N-Value △			
0 0 0 0			
× Fines Content (%) ×			
0 0 0 0			
Groundwater			
14.5 ft ATD ◄ 12.0 ft During Groundwater Sample Collection			

Boring Completed 06/20/13  
 Total Depth of Boring = 20.0 ft.  
 Point located at State Plane Coordinates:  
 North: 466984.73  
 East: 1640948.23

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
  2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
  3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

1148007.01 11/26/13 N:\PROJECTS\1148007.010.GPJ SOIL BORING LOG WITH GRAPH



Yakima Mill Site  
Yakima, WA

Log of Boring TP-B06

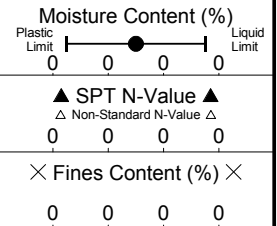
Figure  
B-46

## TP-B07

LAI Project No: 1148007.010

### SAMPLE DATA

### SOIL PROFILE



Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	Test Data	Graphic Symbol	USCS Symbol	Soil Profile Data	
							Drilling Method: Geoprobe™	Ground Elevation (ft): Not surveyed
0							Drilled By: Cascade Drilling Inc.	Logged By: SDS Date: 06/21/13
0 - 0.1					WD		Brown WOODWASTE (no odor, no sheen) (loose, damp) <b>(FILL)</b>	
0.1 - 5				0.1	SP-SM		Gray, fine to coarse SAND with silt (no odor, no sheen) (loose, dry)	
5 - 15				0	WD		Brown WOODWASTE (no odor, no sheen) (loose, damp)	
15 - 19.9	TP-B07 -S(13.5-14.5)	d3		1.9	ML		Gray, sandy SILT (no odor, no sheen) (medium stiff, damp) <b>(ALLUVIUM)</b>	
19.9 - 20.0					GP-GM		Gray, sandy GRAVEL with silt (no odor, no sheen) (loose, wet)	

Groundwater

15.0 ft ATD

Boring Completed 06/21/13      Point located at State Plane Coordinates:  
 Total Depth of Boring = 20.0 ft.      North: 467026.47  
    East: 1641109.16

- Notes: 1. Stratigraphic contacts are based on field interpretations and are approximate.  
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.  
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

1148007.01 11/26/13 N:\PROJECTS\1148007.010.GPJ SOIL BORING LOG WITH GRAPH



Yakima Mill Site  
Yakima, WA

Log of Boring TP-B07

Figure  
**B-47**

# TP-B08

LAI Project No: 1148007.010

SAMPLE DATA				SOIL PROFILE			Moisture Content (%) Plastic Limit <span style="display: inline-block; width: 50px; border-bottom: 1px solid black; position: relative; top: -5px;">●</span> Liquid Limit
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	Test Data	Graphic Symbol	USCS Symbol	
Drilling Method: Geoprobe™ Ground Elevation (ft): Not surveyed Drilled By: Cascade Drilling Inc. Logged By: SDS Date: 06/21/13							▲ SPT N-Value ▲ Δ Non-Standard N-Value Δ 0 0 0 0
							× Fines Content (%) × 0 0 0 0
0					(FILL)		14.0 ft During Groundwater Sample Collection
0.5					Brown, sandy GRAVEL (no odor, no sheen) (dense, dry)		
5							
10	TP-B08 -S(7-8)	d3	0.3		WD	Brown WOODWASTE with minor dark brown silty fine sand (no odor, no sheen) (medium dense, damp)	
10					GP	Brown, very sandy GRAVEL (no odor, no sheen) (medium dense, damp)	
10					WD	Brown WOODWASTE (no odor, no sheen) (loose, damp)	
15							
15	TP-B08 -S(16.5-18)	d3	0.1		ML	Gray SILT with minor woodwaste material (no odor, no sheen) (loose, wet)	
15					GP	Gray, sandy GRAVEL (no odor, no sheen) (loose, wet) <b>(ALLUVIUM)</b>	
20							

Boring Completed 06/21/13      Point located at State Plane Coordinates:  
 Total Depth of Boring = 20.0 ft.      North: 467068.34  
 East: 1641118.15

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
  2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
  3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

1148007.01 11/26/13 N:\PROJECTS\1148007.010.GPJ SOIL BORING LOG WITH GRAPH



Yakima Mill Site  
Yakima, WA

Log of Boring TP-B08

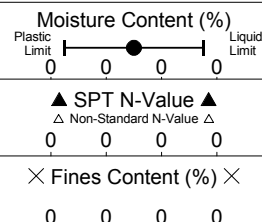
Figure  
**B-48**

# TP-B09

LAI Project No: 1148007.010

## SAMPLE DATA

## SOIL PROFILE



Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	Test Data	Graphic Symbol	USCS Symbol	Description
0						WD	Brown WOODWASTE (no odor, no sheen) (loose, damp) <b>(FILL)</b>
						GP-GM	Mottled brown to gray, sandy GRAVEL with silt and cobbles (no odor, no sheen) (loose, damp)
5	TP-B09-S(6-7)	d3	0.1			SP-SM	Brown, gravelly, fine SAND with silt (no odor, no sheen) (medium dense, damp)
						WD	Brown WOODWASTE (no odor, no sheen) (loose, damp)
10							
15	TP-B09-S(13-14)	d3	1.5			ML	Gray, sandy SILT (no odor, no sheen) (medium stiff, damp)
						GP-GM	Gray, sandy GRAVEL with silt (no odor, no sheen) (loose, wet) <b>(ALLUVIUM)</b>
						SP-SM	-grades gray, gravelly, fine to coarse SAND with silt
20							

Groundwater

14.0 ft During Groundwater Sample Collection

Boring Completed 06/21/13      Point located at State Plane Coordinates:  
 Total Depth of Boring = 20.0 ft.      North: 467040.47  
    East: 1641155.91

- Notes: 1. Stratigraphic contacts are based on field interpretations and are approximate.  
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.  
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

1148007.01 11/26/13 N:\PROJECTS\1148007.010.GPJ SOIL BORING LOG WITH GRAPH



Yakima Mill Site  
Yakima, WA

Log of Boring TP-B09

Figure  
**B-49**

# FPP-MW-1

LAI Project No: 1148007.010

SAMPLE DATA				SOIL PROFILE		WELL DETAIL (DOE# BIC 715)			
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	Test Data	Graphic Symbol		USCS Symbol		
								Drilling Method: Hollow Stem Auger	
								Ground Elevation (ft): Not surveyed	
						Drilled By: Cascade Drilling Inc.			
Logged By: SDS		Date: 08/20/13							
0							Moisture Content (%) Plastic Limit 0 0 0 0 Liquid Limit 0		
							▲ SPT N-Value ▲ △ Non-Standard N-Value △ 0 0 0 0		
							× Fines Content (%) × 0 0 0 0		
0							Protective Casing with Locking Cover Stop		
0 - 5				0.0		SP	Light gray, gravelly SAND (no odor, no sheen) (loose, dry) <b>(FILL)</b>		
5 - 10	FPP-MW-1-S(8.5-9)	h2				SP	Gray, very gravelly SAND (no odor, no sheen) (loose, dry)		
10 - 15				0.0		GP-GM	Gray, sandy GRAVEL with silt (no odor, no sheen) (loose, wet) <b>(ALLUVIUM)</b>		
15 - 20				0.0		SP-SM	Gray, fine SAND with gravel with silt (no odor, no sheen) (loose, wet)		

Boring Completed 08/20/13  
Total Depth of Boring = 20.0 ft.

Point located at State Plane Coordinates:  
North: 466850.92  
East: 1641121.25

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
  2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
  3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

1148007.01 11/26/13 N:\PROJECTS\1148007.010.GPJ SOIL BORING LOG WITH GRAPH



Yakima Mill Site  
Yakima, WA

Log of Boring FPP-MW-1

Figure  
**B-50**

# FPP-MW-2

LAI Project No: 1148007.010

SAMPLE DATA				SOIL PROFILE		WELL DETAIL (DOE# BIC 716)			
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	Test Data	Graphic Symbol		USCS Symbol		
								Drilling Method: Hollow Stem Auger	
								Ground Elevation (ft): Not surveyed	
						Drilled By: Cascade Drilling Inc.			
Logged By: SDS		Date: 08/20/13							
0							Moisture Content (%) Plastic Limit 0 0 0 0 Liquid Limit		
							▲ SPT N-Value ▲ △ Non-Standard N-Value △		
							× Fines Content (%) ×		
0							Protective Casing with Locking Cover Stop		
5			1.4		GP	Gray, sandy GRAVEL with brick fragments (no odor, no sheen) (dense, moist) (FILL)			
10	FPP-MW-2 -S(8.5-9.5)	h2	0.9		SP-SM	Gray, gravelly, fine to medium SAND with silt (slight petroleum-like odor, no sheen) (medium dense, damp)			
15					GP	Gray, sandy GRAVEL (no odor, no sheen) (ALLUVIUM)			
20					SP-SM	Gray, fine to medium SAND with silt (no odor, no sheen) (loose, wet)			

Boring Completed 08/20/13  
Total Depth of Boring = 20.0 ft.

Point located at State Plane Coordinates:  
North: 466687.30  
East: 1641250.11

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
  2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
  3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

1148007.01 11/26/13 N:\PROJECTS\1148007.010.GPJ SOIL BORING LOG WITH GRAPH



Yakima Mill Site  
Yakima, WA

Log of Boring FPP-MW-2

Figure  
**B-51**

# FPP-MW-3

LAI Project No: 1148007.010

SAMPLE DATA				SOIL PROFILE		WELL DETAIL (DOE# BIC 717)	Moisture Content (%)	
Depth (ft)	Sample Number & Interval	Sampler Type	Blows/Foot	Graphic Symbol	USCS Symbol		Plastic Limit — Liquid Limit	
							▲ SPT N-Value ▲ △ Non-Standard N-Value △	
							× Fines Content (%) ×	
						Protective Casing with Locking Cover Stop		
0							0	0
5								
10								
15	FPP-MW-3 -S(13.5-14.5)	h2	0.4		GP	Gray, coarse GRAVEL (no odor, no sheen) (loose, wet)  (FILL)		
15					SP-SM	Gray, gravelly, fine to medium SAND with silt (petroleum-like odor, no sheen) (loose, wet)  (ALLUVIUM)		
20			0.3		SP	Gray, fine to coarse SAND with gravel (no odor, no sheen) (loose, wet)		

Boring Completed 08/20/13  
Total Depth of Boring = 20.0 ft.

Point located at State Plane Coordinates:  
North:  
East:

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
  2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
  3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

1148007.01 11/26/13 N:\PROJECTS\1148007.010.GPJ SOIL BORING LOG WITH GRAPH



Yakima Mill Site  
Yakima, WA

Log of Boring FPP-MW-3

Figure  
**B-52**

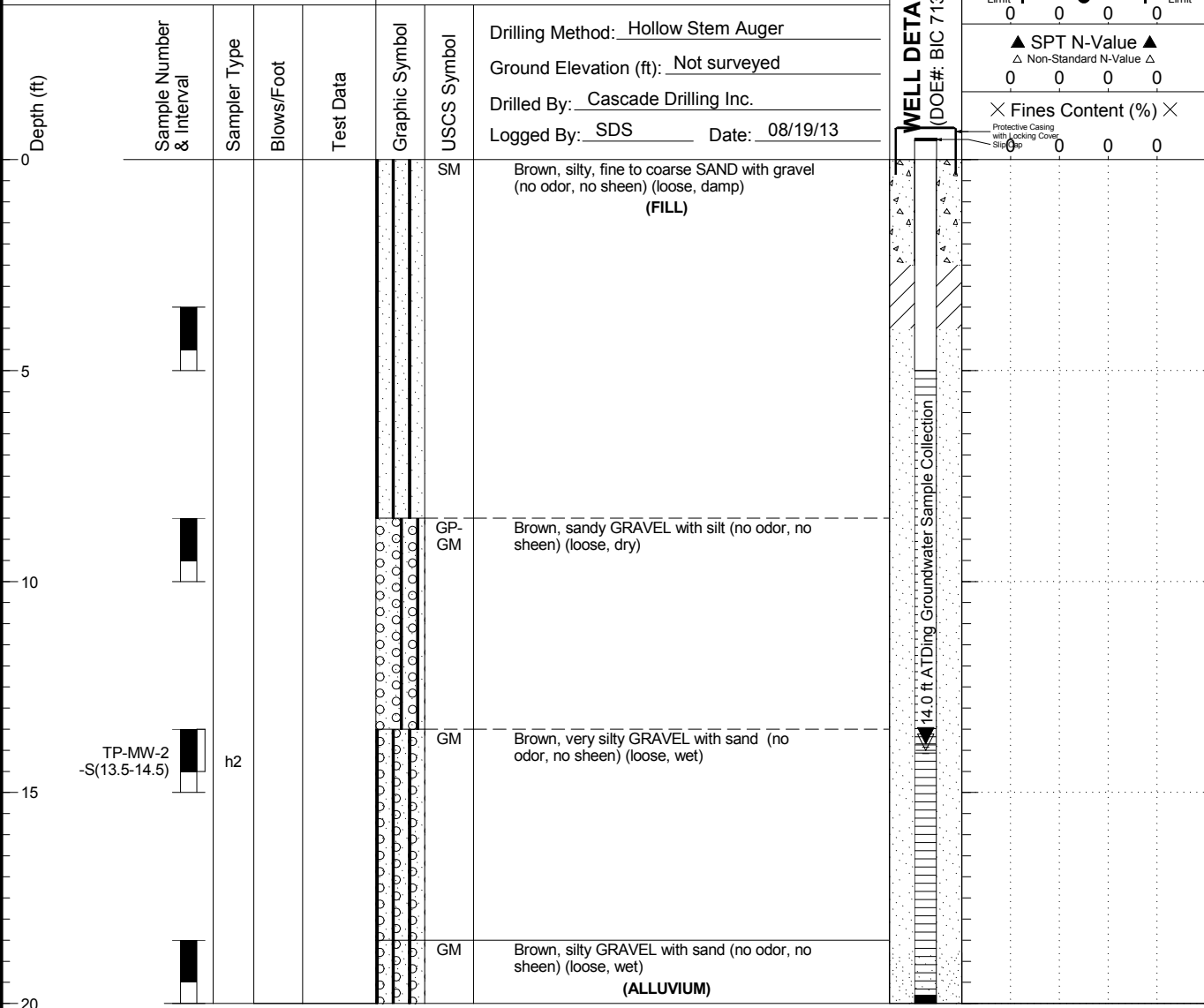


TP-MW-1

LAI Project No: 1148007.010

SAMPLE DATA

SOIL PROFILE



Boring Completed 08/19/13  
 Total Depth of Boring = 20.0 ft.

Point located at State Plane Coordinates:  
 North: 466940.90  
 East: 1640847.49

- Notes:
1. Stratigraphic contacts are based on field interpretations and are approximate.
  2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.
  3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

1148007.01 11/26/13 N:\PROJECTS\1148007.010.GPJ SOIL BORING LOG WITH GRAPH



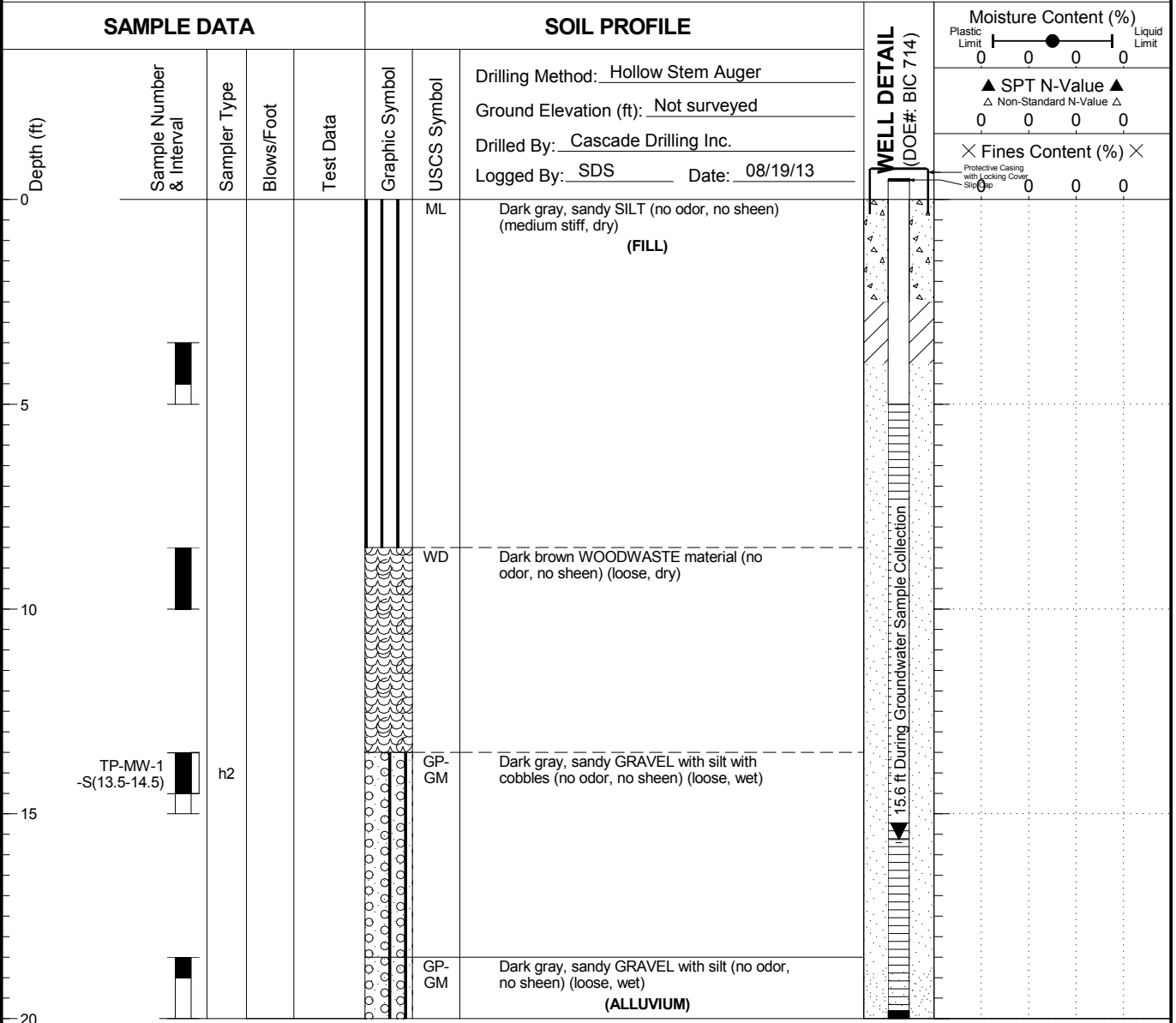
Yakima Mill Site  
Yakima, WA

Log of Boring TP-MW-1

Figure  
**B-53**

# TP-MW-2

LAI Project No: 1148007.010



Boring Completed 08/19/13     Point located at State Plane Coordinates:  
 Total Depth of Boring = 20.0 ft.     North: 467023.93  
 East: 1641162.31

- Notes: 1. Stratigraphic contacts are based on field interpretations and are approximate.  
 2. Reference to the text of this report is necessary for a proper understanding of subsurface conditions.  
 3. Refer to "Soil Classification System and Key" figure for explanation of graphics and symbols.

1148007.01 11/26/13 N:\PROJECTS\1148007.010.GPJ SOIL BORING LOG WITH GRAPH

## **Laboratory Analytical Reports (on DVD)**



July 3, 2013

Mr. Jeffrey Fellows  
Landau Associates, Inc.  
130 - 2nd Ave. S.  
Edmonds, WA 98020

Dear Mr. Fellows,

On June 20th, 8 samples were received by our laboratory and assigned our laboratory project number EV13060104. The project was identified as your Yakima Mill Site / #1148007.010. The sample identification and requested analyses are outlined on the attached chain of custody record.

No abnormalities or nonconformances were observed during the analyses of the project samples.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group

Rick Bagan  
Laboratory Director



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/3/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060104
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-01
CLIENT SAMPLE ID	FPP-B15-GW (18)	DATE RECEIVED:	6/20/2013
		COLLECTION DATE:	6/17/2013 1:30:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	U	130	1	UG/L	06/20/2013	LAP
TPH-Oil Range	NWTPH-DX w/ SGA	U	250	1	UG/L	06/20/2013	LAP
Mercury (Dissolved)	EPA-7470	U	0.20	1	UG/L	06/25/2013	RAL
Arsenic (Dissolved)	EPA-200.8	U	1.0	1	UG/L	06/25/2013	RAL
Cadmium (Dissolved)	EPA-200.8	U	1.0	1	UG/L	06/25/2013	RAL
Chromium (Dissolved)	EPA-200.8	U	2.0	1	UG/L	06/25/2013	RAL
Iron (Dissolved)	EPA-200.8	71	50	1	UG/L	06/25/2013	RAL
Lead (Dissolved)	EPA-200.8	U	1.0	1	UG/L	06/25/2013	RAL
Manganese (Dissolved)	EPA-200.8	420	2.0	1	UG/L	06/25/2013	RAL
Sodium (Dissolved)	EPA-200.8	18000	50	1	UG/L	06/25/2013	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX w/ SGA	83.1	06/20/2013	LAP

U - Analyte analyzed for but not detected at level above reporting limit.



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/3/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13060104
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-02
<b>CLIENT SAMPLE ID</b>	FPP-B13-GW (13)	<b>DATE RECEIVED:</b>	6/20/2013
		<b>COLLECTION DATE:</b>	6/17/2013 3:30:00 PM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

<b>ANALYTE</b>	<b>METHOD</b>	<b>RESULTS</b>	<b>REPORTING LIMITS</b>	<b>DILUTION FACTOR</b>	<b>UNITS</b>	<b>ANALYSIS DATE</b>	<b>ANALYSIS BY</b>
TPH-Volatile Range	NWTPH-GX	U	50	1	UG/L	06/20/2013	DLC
TPH-Diesel Range	NWTPH-DX w/ SGA	U	130	1	UG/L	06/24/2013	LAP
TPH-Oil Range	NWTPH-DX w/ SGA	U	250	1	UG/L	06/24/2013	LAP
Vinyl Chloride	EPA-8260 SIM	U	0.020	1	UG/L	06/28/2013	GAP
Trichloroethene	EPA-8260 SIM	U	0.020	1	UG/L	06/28/2013	GAP
Dichlorodifluoromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Chloromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromomethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Chloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Carbon Disulfide	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Acetone	EPA-8260	U	25	1	UG/L	06/28/2013	GAP
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	06/28/2013	GAP
Acrylonitrile	EPA-8260	U	10	1	UG/L	06/28/2013	GAP
Methyl T-Butyl Ether	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
2-Butanone	EPA-8260	U	10	1	UG/L	06/28/2013	GAP
Cis-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Chloroform	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Benzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Dibromomethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
4-Methyl-2-Pentanone	EPA-8260	U	10	1	UG/L	06/28/2013	GAP
Toluene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/3/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060104
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-02
CLIENT SAMPLE ID	FPP-B13-GW (13)	DATE RECEIVED:	6/20/2013
		COLLECTION DATE:	6/17/2013 3:30:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
2-Hexanone	EPA-8260	U	10	1	UG/L	06/28/2013	GAP
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Tetrachloroethylene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	06/28/2013	GAP
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Ethylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
m,p-Xylene	EPA-8260	U	4.0	1	UG/L	06/28/2013	GAP
Styrene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
o-Xylene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromoform	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Isopropylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1,2,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
N-Propyl Benzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,3,5-Trimethylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
T-Butyl Benzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2,4-Trimethylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
S-Butyl Benzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
P-Isopropyltoluene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,3 Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
N-Butylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	06/28/2013	GAP
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Naphthalene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Pyridine	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
N-Nitrosodimethylamine	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Phenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/3/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060104
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-02
CLIENT SAMPLE ID	FPP-B13-GW (13)	DATE RECEIVED:	6/20/2013
		COLLECTION DATE:	6/17/2013 3:30:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Aniline	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Bis(2-Chloroethyl)Ether	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2-Chlorophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
1,3-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
1,4-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Benzyl Alcohol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
1,2-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2-Methylphenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Bis(2-Chloroisopropyl)Ether	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
3&4-Methylphenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
N-Nitroso-Di-N-Propylamine	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Hexachloroethane	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Nitrobenzene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Isophorone	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2-Nitrophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,4-Dimethylphenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Benzoic Acid	EPA-8270	U	10	1	UG/L	06/24/2013	LAP
Bis(2-Chloroethoxy)Methane	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,4-Dichlorophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
1,2,4-Trichlorobenzene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Naphthalene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
4-Chloroaniline	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,6-Dichlorophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Hexachlorobutadiene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
4-Chloro-3-Methylphenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2-Methylnaphthalene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
1-Methylnaphthalene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Hexachlorocyclopentadiene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,4,6-Trichlorophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,4,5-Trichlorophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2-Chloronaphthalene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2-Nitroaniline	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Acenaphthylene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Dimethylphthalate	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,6-Dinitrotoluene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Acenaphthene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP





**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/3/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060104
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-02
CLIENT SAMPLE ID	FPP-B13-GW (13)	DATE RECEIVED:	6/20/2013
		COLLECTION DATE:	6/17/2013 3:30:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
3-Nitroaniline	EPA-8270	U	5.0	1	UG/L	06/24/2013	LAP
2,4-Dinitrophenol	EPA-8270	U	10	1	UG/L	06/24/2013	LAP
4-Nitrophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Dibenzofuran	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,4-Dinitrotoluene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,3,4,6-Tetrachlorophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Diethylphthalate	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Fluorene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
4-Chlorophenyl-Phenylether	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
4-Nitroaniline	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
4,6-Dinitro-2-Methylphenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
N-Nitrosodiphenylamine	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Azobenzene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
4-Bromophenyl-Phenylether	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Hexachlorobenzene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Pentachlorophenol	EPA-8270	U	5.0	1	UG/L	06/24/2013	LAP
Phenanthrene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Anthracene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Carbazole	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Di-N-Butylphthalate	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Fluoranthene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Pyrene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Butylbenzylphthalate	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
3,3-Dichlorobenzidine	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Benzo[A]Anthracene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Chrysene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Di-N-Octylphthalate	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Benzo[B]Fluoranthene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Benzo[K]Fluoranthene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Benzo[A]Pyrene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Dibenz[A,H]Anthracene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Benzo[G,H,I]Perylene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Mercury	EPA-7470	U	0.20	1	UG/L	06/25/2013	RAL
Arsenic	EPA-200.8	2.5	1.0	1	UG/L	06/21/2013	RAL



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/3/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060104
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-02
CLIENT SAMPLE ID	FPP-B13-GW (13)	DATE RECEIVED:	6/20/2013
		COLLECTION DATE:	6/17/2013 3:30:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Cadmium	EPA-200.8	U	1.0	1	UG/L	06/21/2013	RAL
Chromium	EPA-200.8	10	2.0	1	UG/L	06/21/2013	RAL
Iron	EPA-200.8	13000	50	1	UG/L	06/21/2013	RAL
Lead	EPA-200.8	2.8	1.0	1	UG/L	06/21/2013	RAL
Manganese	EPA-200.8	1700	2.0	1	UG/L	06/21/2013	RAL
Sodium	EPA-200.8	150000	50	1	UG/L	06/21/2013	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	91.1	06/20/2013	DLC
C25	NWTPH-DX w/ SGA	100	06/24/2013	LAP
1,2-Dichloroethane-d4	EPA-8260 SIM	101	06/28/2013	GAP
1,2-Dichloroethane-d4	EPA-8260	101	06/28/2013	GAP
Toluene-d8	EPA-8260	93.7	06/28/2013	GAP
4-Bromofluorobenzene	EPA-8260	101	06/28/2013	GAP
2-Fluorophenol	EPA-8270	57.6	06/24/2013	LAP
Phenol-d5	EPA-8270	23.8	06/24/2013	LAP
Nitrobenzene-d5	EPA-8270	88.1	06/24/2013	LAP
2-Fluorobiphenyl	EPA-8270	82.4	06/24/2013	LAP
2,4,6-Tribromophenol	EPA-8270	110	06/24/2013	LAP
Terphenyl-d14	EPA-8270	106	06/24/2013	LAP

U - Analyte analyzed for but not detected at level above reporting limit.



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/3/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060104
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-03
CLIENT SAMPLE ID	FPP-B12-GW (18)	DATE RECEIVED:	6/20/2013
		COLLECTION DATE:	6/17/2013 5:35:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	U	130	1	UG/L	06/20/2013	LAP
TPH-Oil Range	NWTPH-DX w/ SGA	U	250	1	UG/L	06/20/2013	LAP
Mercury (Dissolved)	EPA-7470	U	0.20	1	UG/L	06/25/2013	RAL
Arsenic (Dissolved)	EPA-200.8	1.5	1.0	1	UG/L	06/25/2013	RAL
Cadmium (Dissolved)	EPA-200.8	U	1.0	1	UG/L	06/25/2013	RAL
Chromium (Dissolved)	EPA-200.8	U	2.0	1	UG/L	06/25/2013	RAL
Iron (Dissolved)	EPA-200.8	9500	50	1	UG/L	06/25/2013	RAL
Lead (Dissolved)	EPA-200.8	U	1.0	1	UG/L	06/25/2013	RAL
Manganese (Dissolved)	EPA-200.8	1600	2.0	1	UG/L	06/25/2013	RAL
Sodium (Dissolved)	EPA-200.8	41000	50	1	UG/L	06/25/2013	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX w/ SGA	96.9	06/20/2013	LAP

U - Analyte analyzed for but not detected at level above reporting limit.



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/3/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060104
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-04
CLIENT SAMPLE ID	FPP-B02-GW (19)	DATE RECEIVED:	6/20/2013
		COLLECTION DATE:	6/19/2013 9:15:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	50	1	UG/L	06/21/2013	DLC
TPH-Diesel Range	NWTPH-DX w/ SGA	U	130	1	UG/L	06/20/2013	LAP
TPH-Oil Range	NWTPH-DX w/ SGA	U	250	1	UG/L	06/20/2013	LAP
Vinyl Chloride	EPA-8260 SIM	U	0.020	1	UG/L	06/28/2013	GAP
Trichloroethene	EPA-8260 SIM	U	0.020	1	UG/L	06/28/2013	GAP
Dichlorodifluoromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Chloromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromomethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Chloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Carbon Disulfide	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Acetone	EPA-8260	U	25	1	UG/L	06/28/2013	GAP
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	06/28/2013	GAP
Acrylonitrile	EPA-8260	U	10	1	UG/L	06/28/2013	GAP
Methyl T-Butyl Ether	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
2-Butanone	EPA-8260	U	10	1	UG/L	06/28/2013	GAP
Cis-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Chloroform	EPA-8260	<b>2.8</b>	2.0	1	UG/L	06/28/2013	GAP
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Benzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Dibromomethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
4-Methyl-2-Pentanone	EPA-8260	U	10	1	UG/L	06/28/2013	GAP
Toluene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/3/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060104
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-04
CLIENT SAMPLE ID	FPP-B02-GW (19)	DATE RECEIVED:	6/20/2013
		COLLECTION DATE:	6/19/2013 9:15:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
2-Hexanone	EPA-8260	U	10	1	UG/L	06/28/2013	GAP
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Tetrachloroethylene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	06/28/2013	GAP
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Ethylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
m,p-Xylene	EPA-8260	U	4.0	1	UG/L	06/28/2013	GAP
Styrene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
o-Xylene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromoform	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Isopropylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1,2,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
N-Propyl Benzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,3,5-Trimethylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
T-Butyl Benzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2,4-Trimethylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
S-Butyl Benzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
P-Isopropyltoluene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,3 Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
N-Butylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	06/28/2013	GAP
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Naphthalene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Pyridine	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
N-Nitrosodimethylamine	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Phenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/3/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13060104
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-04
<b>CLIENT SAMPLE ID</b>	FPP-B02-GW (19)	<b>DATE RECEIVED:</b>	6/20/2013
		<b>COLLECTION DATE:</b>	6/19/2013 9:15:00 AM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

<b>ANALYTE</b>	<b>METHOD</b>	<b>RESULTS</b>	<b>REPORTING LIMITS</b>	<b>DILUTION FACTOR</b>	<b>UNITS</b>	<b>ANALYSIS DATE</b>	<b>ANALYSIS BY</b>
Aniline	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Bis(2-Chloroethyl)Ether	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2-Chlorophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
1,3-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
1,4-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Benzyl Alcohol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
1,2-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2-Methylphenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Bis(2-Chloroisopropyl)Ether	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
3&4-Methylphenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
N-Nitroso-Di-N-Propylamine	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Hexachloroethane	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Nitrobenzene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Isophorone	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2-Nitrophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,4-Dimethylphenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Benzoic Acid	EPA-8270	U	10	1	UG/L	06/24/2013	LAP
Bis(2-Chloroethoxy)Methane	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,4-Dichlorophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
1,2,4-Trichlorobenzene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Naphthalene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
4-Chloroaniline	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,6-Dichlorophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Hexachlorobutadiene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
4-Chloro-3-Methylphenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2-Methylnaphthalene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
1-Methylnaphthalene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Hexachlorocyclopentadiene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,4,6-Trichlorophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,4,5-Trichlorophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2-Chloronaphthalene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2-Nitroaniline	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Acenaphthylene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Dimethylphthalate	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,6-Dinitrotoluene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Acenaphthene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/3/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060104
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-04
CLIENT SAMPLE ID	FPP-B02-GW (19)	DATE RECEIVED:	6/20/2013
		COLLECTION DATE:	6/19/2013 9:15:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
3-Nitroaniline	EPA-8270	U	5.0	1	UG/L	06/24/2013	LAP
2,4-Dinitrophenol	EPA-8270	U	10	1	UG/L	06/24/2013	LAP
4-Nitrophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Dibenzofuran	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,4-Dinitrotoluene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,3,4,6-Tetrachlorophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Diethylphthalate	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Fluorene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
4-Chlorophenyl-Phenylether	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
4-Nitroaniline	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
4,6-Dinitro-2-Methylphenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
N-Nitrosodiphenylamine	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Azobenzene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
4-Bromophenyl-Phenylether	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Hexachlorobenzene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Pentachlorophenol	EPA-8270	U	5.0	1	UG/L	06/24/2013	LAP
Phenanthrene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Anthracene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Carbazole	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Di-N-Butylphthalate	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Fluoranthene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Pyrene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Butylbenzylphthalate	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
3,3-Dichlorobenzidine	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Benzo[A]Anthracene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Chrysene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Di-N-Octylphthalate	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Benzo[B]Fluoranthene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Benzo[K]Fluoranthene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Benzo[A]Pyrene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Dibenz[A,H]Anthracene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Benzo[G,H,I]Perylene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Chromium (VI)	EPA-7196	U	10	1	UG/L	06/20/2013	RAL
Chromium (VI)	EPA-7196	U	10	1	UG/L	06/20/2013	RAL



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/3/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060104
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-04
CLIENT SAMPLE ID	FPP-B02-GW (19)	DATE RECEIVED:	6/20/2013
		COLLECTION DATE:	6/19/2013 9:15:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Mercury (Dissolved)	EPA-7470	U	0.20	1	UG/L	06/25/2013	RAL
Arsenic (Dissolved)	EPA-200.8	U	1.0	1	UG/L	06/25/2013	RAL
Cadmium (Dissolved)	EPA-200.8	U	1.0	1	UG/L	06/25/2013	RAL
Chromium (Dissolved)	EPA-200.8	U	2.0	1	UG/L	06/25/2013	RAL
Iron (Dissolved)	EPA-200.8	80	50	1	UG/L	06/25/2013	RAL
Lead (Dissolved)	EPA-200.8	U	1.0	1	UG/L	06/25/2013	RAL
Manganese (Dissolved)	EPA-200.8	1300	2.0	1	UG/L	06/25/2013	RAL
Sodium (Dissolved)	EPA-200.8	14000	50	1	UG/L	06/25/2013	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	98.4	06/21/2013	DLC
C25	NWTPH-DX w/ SGA	92.3	06/20/2013	LAP
1,2-Dichloroethane-d4	EPA-8260 SIM	101	06/28/2013	GAP
1,2-Dichloroethane-d4	EPA-8260	101	06/28/2013	GAP
Toluene-d8	EPA-8260	92.9	06/28/2013	GAP
4-Bromofluorobenzene	EPA-8260	101	06/28/2013	GAP
2-Fluorophenol	EPA-8270	44.2	06/24/2013	LAP
Phenol-d5	EPA-8270	24.8	06/24/2013	LAP
Nitrobenzene-d5	EPA-8270	79.8	06/24/2013	LAP
2-Fluorobiphenyl	EPA-8270	82.0	06/24/2013	LAP
2,4,6-Tribromophenol	EPA-8270	89.8	06/24/2013	LAP
Terphenyl-d14	EPA-8270	117	06/24/2013	LAP

U - Analyte analyzed for but not detected at level above reporting limit.





**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/3/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060104
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-05
CLIENT SAMPLE ID	FPP-B09-GW (18)	DATE RECEIVED:	6/20/2013
		COLLECTION DATE:	6/19/2013 10:50:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	50	1	UG/L	06/21/2013	DLC
TPH-Diesel Range	NWTPH-DX w/ SGA	U	130	1	UG/L	06/20/2013	LAP
TPH-Oil Range	NWTPH-DX w/ SGA	U	250	1	UG/L	06/20/2013	LAP
Vinyl Chloride	EPA-8260 SIM	U	0.020	1	UG/L	06/28/2013	GAP
Trichloroethene	EPA-8260 SIM	U	0.020	1	UG/L	06/28/2013	GAP
Dichlorodifluoromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Chloromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromomethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Chloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Carbon Disulfide	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Acetone	EPA-8260	U	25	1	UG/L	06/28/2013	GAP
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	06/28/2013	GAP
Acrylonitrile	EPA-8260	U	10	1	UG/L	06/28/2013	GAP
Methyl T-Butyl Ether	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
2-Butanone	EPA-8260	U	10	1	UG/L	06/28/2013	GAP
Cis-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Chloroform	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Benzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Dibromomethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
4-Methyl-2-Pentanone	EPA-8260	U	10	1	UG/L	06/28/2013	GAP
Toluene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/3/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060104
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-05
CLIENT SAMPLE ID	FPP-B09-GW (18)	DATE RECEIVED:	6/20/2013
		COLLECTION DATE:	6/19/2013 10:50:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
2-Hexanone	EPA-8260	U	10	1	UG/L	06/28/2013	GAP
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Tetrachloroethylene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	06/28/2013	GAP
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Ethylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
m,p-Xylene	EPA-8260	U	4.0	1	UG/L	06/28/2013	GAP
Styrene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
o-Xylene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromoform	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Isopropylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1,2,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
N-Propyl Benzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,3,5-Trimethylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
T-Butyl Benzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2,4-Trimethylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
S-Butyl Benzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
P-Isopropyltoluene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,3 Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
N-Butylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	06/28/2013	GAP
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Naphthalene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Pyridine	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
N-Nitrosodimethylamine	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Phenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/3/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060104
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-05
CLIENT SAMPLE ID	FPP-B09-GW (18)	DATE RECEIVED:	6/20/2013
		COLLECTION DATE:	6/19/2013 10:50:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Aniline	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Bis(2-Chloroethyl)Ether	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2-Chlorophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
1,3-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
1,4-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Benzyl Alcohol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
1,2-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2-Methylphenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Bis(2-Chloroisopropyl)Ether	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
3&4-Methylphenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
N-Nitroso-Di-N-Propylamine	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Hexachloroethane	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Nitrobenzene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Isophorone	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2-Nitrophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,4-Dimethylphenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Benzoic Acid	EPA-8270	U	10	1	UG/L	06/24/2013	LAP
Bis(2-Chloroethoxy)Methane	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,4-Dichlorophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
1,2,4-Trichlorobenzene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Naphthalene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
4-Chloroaniline	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,6-Dichlorophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Hexachlorobutadiene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
4-Chloro-3-Methylphenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2-Methylnaphthalene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
1-Methylnaphthalene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Hexachlorocyclopentadiene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,4,6-Trichlorophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,4,5-Trichlorophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2-Chloronaphthalene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2-Nitroaniline	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Acenaphthylene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Dimethylphthalate	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,6-Dinitrotoluene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Acenaphthene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/3/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060104
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-05
CLIENT SAMPLE ID	FPP-B09-GW (18)	DATE RECEIVED:	6/20/2013
		COLLECTION DATE:	6/19/2013 10:50:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
3-Nitroaniline	EPA-8270	U	5.0	1	UG/L	06/24/2013	LAP
2,4-Dinitrophenol	EPA-8270	U	10	1	UG/L	06/24/2013	LAP
4-Nitrophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Dibenzofuran	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,4-Dinitrotoluene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,3,4,6-Tetrachlorophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Diethylphthalate	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Fluorene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
4-Chlorophenyl-Phenylether	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
4-Nitroaniline	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
4,6-Dinitro-2-Methylphenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
N-Nitrosodiphenylamine	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Azobenzene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
4-Bromophenyl-Phenylether	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Hexachlorobenzene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Pentachlorophenol	EPA-8270	U	5.0	1	UG/L	06/24/2013	LAP
Phenanthrene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Anthracene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Carbazole	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Di-N-Butylphthalate	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Fluoranthene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Pyrene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Butylbenzylphthalate	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
3,3-Dichlorobenzidine	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Benzo[A]Anthracene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Chrysene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Bis(2-Ethylhexyl)Phthalate	EPA-8270	2.1	2.0	1	UG/L	06/24/2013	LAP
Di-N-Octylphthalate	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Benzo[B]Fluoranthene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Benzo[K]Fluoranthene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Benzo[A]Pyrene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Dibenz[A,H]Anthracene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Benzo[G,H,I]Perylene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Chromium (VI)	EPA-7196	U	10	1	UG/L	06/20/2013	RAL
Chromium (VI)	EPA-7196	U	10	1	UG/L	06/20/2013	RAL



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/3/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060104
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-05
CLIENT SAMPLE ID	FPP-B09-GW (18)	DATE RECEIVED:	6/20/2013
		COLLECTION DATE:	6/19/2013 10:50:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Mercury (Dissolved)	EPA-7470	U	0.20	1	UG/L	06/25/2013	RAL
Arsenic (Dissolved)	EPA-200.8	1.0	1.0	1	UG/L	06/25/2013	RAL
Cadmium (Dissolved)	EPA-200.8	U	1.0	1	UG/L	06/25/2013	RAL
Chromium (Dissolved)	EPA-200.8	U	2.0	1	UG/L	06/25/2013	RAL
Iron (Dissolved)	EPA-200.8	4300	50	1	UG/L	06/25/2013	RAL
Lead (Dissolved)	EPA-200.8	U	1.0	1	UG/L	06/25/2013	RAL
Manganese (Dissolved)	EPA-200.8	3500	10	5	UG/L	06/25/2013	RAL
Sodium (Dissolved)	EPA-200.8	41000	50	1	UG/L	06/25/2013	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	98.5	06/21/2013	DLC
C25	NWTPH-DX w/ SGA	102	06/20/2013	LAP
1,2-Dichloroethane-d4	EPA-8260 SIM	102	06/28/2013	GAP
1,2-Dichloroethane-d4	EPA-8260	102	06/28/2013	GAP
Toluene-d8	EPA-8260	93.3	06/28/2013	GAP
4-Bromofluorobenzene	EPA-8260	101	06/28/2013	GAP
2-Fluorophenol	EPA-8270	61.9	06/24/2013	LAP
Phenol-d5	EPA-8270	26.1	06/24/2013	LAP
Nitrobenzene-d5	EPA-8270	85.3	06/24/2013	LAP
2-Fluorobiphenyl	EPA-8270	86.9	06/24/2013	LAP
2,4,6-Tribromophenol	EPA-8270	116	06/24/2013	LAP
Terphenyl-d14	EPA-8270	117	06/24/2013	LAP

U - Analyte analyzed for but not detected at level above reporting limit.



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/3/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13060104
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-06
<b>CLIENT SAMPLE ID</b>	FPP-B07-GW (17)	<b>DATE RECEIVED:</b>	6/20/2013
		<b>COLLECTION DATE:</b>	6/19/2013 12:00:00 PM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

<b>ANALYTE</b>	<b>METHOD</b>	<b>RESULTS</b>	<b>REPORTING LIMITS</b>	<b>DILUTION FACTOR</b>	<b>UNITS</b>	<b>ANALYSIS DATE</b>	<b>ANALYSIS BY</b>
TPH-Volatile Range	NWTPH-GX	U	50	1	UG/L	06/20/2013	DLC
TPH-Diesel Range	NWTPH-DX w/ SGA	U	130	1	UG/L	06/20/2013	LAP
TPH-Oil Range	NWTPH-DX w/ SGA	U	250	1	UG/L	06/20/2013	LAP
Vinyl Chloride	EPA-8260 SIM	U	0.020	1	UG/L	06/28/2013	GAP
Trichloroethene	EPA-8260 SIM	U	0.020	1	UG/L	06/28/2013	GAP
Dichlorodifluoromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Chloromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromomethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Chloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Carbon Disulfide	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Acetone	EPA-8260	U	25	1	UG/L	06/28/2013	GAP
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	06/28/2013	GAP
Acrylonitrile	EPA-8260	U	10	1	UG/L	06/28/2013	GAP
Methyl T-Butyl Ether	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
2-Butanone	EPA-8260	U	10	1	UG/L	06/28/2013	GAP
Cis-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Chloroform	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Benzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Dibromomethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
4-Methyl-2-Pentanone	EPA-8260	U	10	1	UG/L	06/28/2013	GAP
Toluene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/3/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060104
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-06
CLIENT SAMPLE ID	FPP-B07-GW (17)	DATE RECEIVED:	6/20/2013
		COLLECTION DATE:	6/19/2013 12:00:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
2-Hexanone	EPA-8260	U	10	1	UG/L	06/28/2013	GAP
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Tetrachloroethylene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	06/28/2013	GAP
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Ethylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
m,p-Xylene	EPA-8260	U	4.0	1	UG/L	06/28/2013	GAP
Styrene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
o-Xylene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromoform	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Isopropylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1,2,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
N-Propyl Benzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,3,5-Trimethylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
T-Butyl Benzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2,4-Trimethylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
S-Butyl Benzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
P-Isopropyltoluene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,3 Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
N-Butylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	06/28/2013	GAP
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Naphthalene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Pyridine	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
N-Nitrosodimethylamine	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Phenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/3/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13060104
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-06
<b>CLIENT SAMPLE ID</b>	FPP-B07-GW (17)	<b>DATE RECEIVED:</b>	6/20/2013
		<b>COLLECTION DATE:</b>	6/19/2013 12:00:00 PM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

<b>ANALYTE</b>	<b>METHOD</b>	<b>RESULTS</b>	<b>REPORTING LIMITS</b>	<b>DILUTION FACTOR</b>	<b>UNITS</b>	<b>ANALYSIS DATE</b>	<b>ANALYSIS BY</b>
Aniline	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Bis(2-Chloroethyl)Ether	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2-Chlorophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
1,3-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
1,4-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Benzyl Alcohol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
1,2-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2-Methylphenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Bis(2-Chloroisopropyl)Ether	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
3&4-Methylphenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
N-Nitroso-Di-N-Propylamine	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Hexachloroethane	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Nitrobenzene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Isophorone	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2-Nitrophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,4-Dimethylphenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Benzoic Acid	EPA-8270	U	10	1	UG/L	06/24/2013	LAP
Bis(2-Chloroethoxy)Methane	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,4-Dichlorophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
1,2,4-Trichlorobenzene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Naphthalene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
4-Chloroaniline	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,6-Dichlorophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Hexachlorobutadiene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
4-Chloro-3-Methylphenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2-Methylnaphthalene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
1-Methylnaphthalene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Hexachlorocyclopentadiene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,4,6-Trichlorophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,4,5-Trichlorophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2-Chloronaphthalene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2-Nitroaniline	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Acenaphthylene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Dimethylphthalate	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,6-Dinitrotoluene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Acenaphthene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP





**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/3/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060104
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-06
CLIENT SAMPLE ID	FPP-B07-GW (17)	DATE RECEIVED:	6/20/2013
		COLLECTION DATE:	6/19/2013 12:00:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
3-Nitroaniline	EPA-8270	U	5.0	1	UG/L	06/24/2013	LAP
2,4-Dinitrophenol	EPA-8270	U	10	1	UG/L	06/24/2013	LAP
4-Nitrophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Dibenzofuran	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,4-Dinitrotoluene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,3,4,6-Tetrachlorophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Diethylphthalate	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Fluorene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
4-Chlorophenyl-Phenylether	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
4-Nitroaniline	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
4,6-Dinitro-2-Methylphenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
N-Nitrosodiphenylamine	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Azobenzene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
4-Bromophenyl-Phenylether	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Hexachlorobenzene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Pentachlorophenol	EPA-8270	U	5.0	1	UG/L	06/24/2013	LAP
Phenanthrene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Anthracene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Carbazole	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Di-N-Butylphthalate	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Fluoranthene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Pyrene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Butylbenzylphthalate	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
3,3-Dichlorobenzidine	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Benzo[A]Anthracene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Chrysene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Di-N-Octylphthalate	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Benzo[B]Fluoranthene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Benzo[K]Fluoranthene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Benzo[A]Pyrene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Dibenz[A,H]Anthracene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Benzo[G,H,I]Perylene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Mercury (Dissolved)	EPA-7470	U	0.20	1	UG/L	06/25/2013	RAL
Arsenic (Dissolved)	EPA-200.8	U	1.0	1	UG/L	06/25/2013	RAL



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/3/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060104
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-06
CLIENT SAMPLE ID	FPP-B07-GW (17)	DATE RECEIVED:	6/20/2013
		COLLECTION DATE:	6/19/2013 12:00:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Cadmium (Dissolved)	EPA-200.8	U	1.0	1	UG/L	06/25/2013	RAL
Chromium (Dissolved)	EPA-200.8	U	2.0	1	UG/L	06/25/2013	RAL
Iron (Dissolved)	EPA-200.8	5200	50	1	UG/L	06/25/2013	RAL
Lead (Dissolved)	EPA-200.8	U	1.0	1	UG/L	06/25/2013	RAL
Manganese (Dissolved)	EPA-200.8	1800	2.0	1	UG/L	06/25/2013	RAL
Sodium (Dissolved)	EPA-200.8	22000	50	1	UG/L	06/25/2013	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	74.2	06/20/2013	DLC
C25	NWTPH-DX w/ SGA	96.4	06/20/2013	LAP
1,2-Dichloroethane-d4	EPA-8260 SIM	101	06/28/2013	GAP
1,2-Dichloroethane-d4	EPA-8260	101	06/28/2013	GAP
Toluene-d8	EPA-8260	93.1	06/28/2013	GAP
4-Bromofluorobenzene	EPA-8260	101	06/28/2013	GAP
2-Fluorophenol	EPA-8270	60.3	06/24/2013	LAP
Phenol-d5	EPA-8270	25.3	06/24/2013	LAP
Nitrobenzene-d5	EPA-8270	76.8	06/24/2013	LAP
2-Fluorobiphenyl	EPA-8270	84.5	06/24/2013	LAP
2,4,6-Tribromophenol	EPA-8270	107	06/24/2013	LAP
Terphenyl-d14	EPA-8270	109	06/24/2013	LAP

U - Analyte analyzed for but not detected at level above reporting limit.



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/3/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060104
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-07
CLIENT SAMPLE ID	FPP-B05-GW (18)	DATE RECEIVED:	6/20/2013
		COLLECTION DATE:	6/19/2013 1:15:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	51	50	1	UG/L	06/20/2013	DLC
TPH-Diesel Range	NWTPH-DX w/ SGA	U	620	1	UG/L	06/20/2013	LAP
TPH-Oil Range	NWTPH-DX w/ SGA	7500	250	1	UG/L	06/20/2013	LAP
Vinyl Chloride	EPA-8260 SIM	U	0.020	1	UG/L	06/28/2013	GAP
Trichloroethene	EPA-8260 SIM	U	0.020	1	UG/L	06/28/2013	GAP
Dichlorodifluoromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Chloromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromomethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Chloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Carbon Disulfide	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Acetone	EPA-8260	U	25	1	UG/L	06/28/2013	GAP
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	06/28/2013	GAP
Acrylonitrile	EPA-8260	U	10	1	UG/L	06/28/2013	GAP
Methyl T-Butyl Ether	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
2-Butanone	EPA-8260	U	10	1	UG/L	06/28/2013	GAP
Cis-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Chloroform	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Benzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Dibromomethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
4-Methyl-2-Pentanone	EPA-8260	U	10	1	UG/L	06/28/2013	GAP
Toluene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/3/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060104
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-07
CLIENT SAMPLE ID	FPP-B05-GW (18)	DATE RECEIVED:	6/20/2013
		COLLECTION DATE:	6/19/2013 1:15:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
2-Hexanone	EPA-8260	U	10	1	UG/L	06/28/2013	GAP
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Tetrachloroethylene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	06/28/2013	GAP
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Ethylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
m,p-Xylene	EPA-8260	U	4.0	1	UG/L	06/28/2013	GAP
Styrene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
o-Xylene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromoform	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Isopropylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1,2,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
N-Propyl Benzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,3,5-Trimethylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
T-Butyl Benzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2,4-Trimethylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
S-Butyl Benzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
P-Isopropyltoluene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,3 Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
N-Butylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	06/28/2013	GAP
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Naphthalene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Pyridine	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
N-Nitrosodimethylamine	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Phenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/3/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13060104
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-07
<b>CLIENT SAMPLE ID</b>	FPP-B05-GW (18)	<b>DATE RECEIVED:</b>	6/20/2013
		<b>COLLECTION DATE:</b>	6/19/2013 1:15:00 PM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

<b>ANALYTE</b>	<b>METHOD</b>	<b>RESULTS</b>	<b>REPORTING LIMITS</b>	<b>DILUTION FACTOR</b>	<b>UNITS</b>	<b>ANALYSIS DATE</b>	<b>ANALYSIS BY</b>
Aniline	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Bis(2-Chloroethyl)Ether	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2-Chlorophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
1,3-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
1,4-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Benzyl Alcohol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
1,2-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2-Methylphenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Bis(2-Chloroisopropyl)Ether	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
3&4-Methylphenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
N-Nitroso-Di-N-Propylamine	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Hexachloroethane	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Nitrobenzene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Isophorone	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2-Nitrophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,4-Dimethylphenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Benzoic Acid	EPA-8270	U	10	1	UG/L	06/24/2013	LAP
Bis(2-Chloroethoxy)Methane	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,4-Dichlorophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
1,2,4-Trichlorobenzene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Naphthalene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
4-Chloroaniline	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,6-Dichlorophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Hexachlorobutadiene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
4-Chloro-3-Methylphenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2-Methylnaphthalene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
1-Methylnaphthalene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Hexachlorocyclopentadiene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,4,6-Trichlorophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,4,5-Trichlorophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2-Chloronaphthalene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2-Nitroaniline	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Acenaphthylene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Dimethylphthalate	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,6-Dinitrotoluene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Acenaphthene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/3/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060104
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-07
CLIENT SAMPLE ID	FPP-B05-GW (18)	DATE RECEIVED:	6/20/2013
		COLLECTION DATE:	6/19/2013 1:15:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
3-Nitroaniline	EPA-8270	U	5.0	1	UG/L	06/24/2013	LAP
2,4-Dinitrophenol	EPA-8270	U	10	1	UG/L	06/24/2013	LAP
4-Nitrophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Dibenzofuran	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,4-Dinitrotoluene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,3,4,6-Tetrachlorophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Diethylphthalate	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Fluorene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
4-Chlorophenyl-Phenylether	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
4-Nitroaniline	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
4,6-Dinitro-2-Methylphenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
N-Nitrosodiphenylamine	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Azobenzene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
4-Bromophenyl-Phenylether	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Hexachlorobenzene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Pentachlorophenol	EPA-8270	U	5.0	1	UG/L	06/24/2013	LAP
Phenanthrene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Anthracene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Carbazole	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Di-N-Butylphthalate	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Fluoranthene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Pyrene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Butylbenzylphthalate	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
3,3-Dichlorobenzidine	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Benzo[A]Anthracene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Chrysene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Bis(2-Ethylhexyl)Phthalate	EPA-8270	5.5	2.0	1	UG/L	06/24/2013	LAP
Di-N-Octylphthalate	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Benzo[B]Fluoranthene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Benzo[K]Fluoranthene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Benzo[A]Pyrene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Dibenz[A,H]Anthracene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Benzo[G,H,I]Perylene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Chromium (VI)	EPA-7196	U	10	1	UG/L	06/20/2013	RAL
Chromium (VI)	EPA-7196	U	10	1	UG/L	06/20/2013	RAL



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/3/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060104
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-07
CLIENT SAMPLE ID	FPP-B05-GW (18)	DATE RECEIVED:	6/20/2013
		COLLECTION DATE:	6/19/2013 1:15:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Mercury (Dissolved)	EPA-7470	U	0.20	1	UG/L	06/25/2013	RAL
Arsenic (Dissolved)	EPA-200.8	U	1.0	1	UG/L	06/25/2013	RAL
Cadmium (Dissolved)	EPA-200.8	U	1.0	1	UG/L	06/25/2013	RAL
Chromium (Dissolved)	EPA-200.8	2.6	2.0	1	UG/L	06/25/2013	RAL
Iron (Dissolved)	EPA-200.8	3800	50	1	UG/L	06/25/2013	RAL
Lead (Dissolved)	EPA-200.8	U	1.0	1	UG/L	06/25/2013	RAL
Manganese (Dissolved)	EPA-200.8	2700	10	5	UG/L	06/25/2013	RAL
Sodium (Dissolved)	EPA-200.8	59000	50	1	UG/L	06/25/2013	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	66.8	06/20/2013	DLC
C25	NWTPH-DX w/ SGA	104	06/20/2013	LAP
1,2-Dichloroethane-d4	EPA-8260 SIM	103	06/28/2013	GAP
1,2-Dichloroethane-d4	EPA-8260	103	06/28/2013	GAP
Toluene-d8	EPA-8260	93.3	06/28/2013	GAP
4-Bromofluorobenzene	EPA-8260	99.4	06/28/2013	GAP
2-Fluorophenol	EPA-8270	64.7	06/24/2013	LAP
Phenol-d5	EPA-8270	28.0	06/24/2013	LAP
Nitrobenzene-d5	EPA-8270	90.0	06/24/2013	LAP
2-Fluorobiphenyl	EPA-8270	85.0	06/24/2013	LAP
2,4,6-Tribromophenol	EPA-8270	119	06/24/2013	LAP
Terphenyl-d14	EPA-8270	111	06/24/2013	LAP

U - Analyte analyzed for but not detected at level above reporting limit.  
 Chromatogram indicates that it is likely that sample contains highly weathered gasoline and lube oil.  
 Diesel range product reporting limits raised due to motor oil range product overlap.



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/3/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13060104
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-08
<b>CLIENT SAMPLE ID</b>	TRIP BLANKS	<b>DATE RECEIVED:</b>	6/20/2013
		<b>COLLECTION DATE:</b>	6/19/2013 8:00:00 AM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

<b>ANALYTE</b>	<b>METHOD</b>	<b>RESULTS</b>	<b>REPORTING LIMITS</b>	<b>DILUTION FACTOR</b>	<b>UNITS</b>	<b>ANALYSIS DATE</b>	<b>ANALYSIS BY</b>
TPH-Volatile Range	NWTPH-GX	U	50	1	UG/L	06/20/2013	DLC
Vinyl Chloride	EPA-8260 SIM	U	0.020	1	UG/L	06/28/2013	GAP
Trichloroethene	EPA-8260 SIM	U	0.020	1	UG/L	06/28/2013	GAP
Dichlorodifluoromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Chloromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromomethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Chloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Carbon Disulfide	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Acetone	EPA-8260	U	25	1	UG/L	06/28/2013	GAP
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	06/28/2013	GAP
Acrylonitrile	EPA-8260	U	10	1	UG/L	06/28/2013	GAP
Methyl T-Butyl Ether	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
2-Butanone	EPA-8260	U	10	1	UG/L	06/28/2013	GAP
Cis-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Chloroform	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Benzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Dibromomethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
4-Methyl-2-Pentanone	EPA-8260	U	10	1	UG/L	06/28/2013	GAP
Toluene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
2-Hexanone	EPA-8260	U	10	1	UG/L	06/28/2013	GAP
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP





**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/3/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13060104
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-08
<b>CLIENT SAMPLE ID</b>	TRIP BLANKS	<b>DATE RECEIVED:</b>	6/20/2013
		<b>COLLECTION DATE:</b>	6/19/2013 8:00:00 AM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Tetrachloroethylene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	06/28/2013	GAP
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Ethylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
m,p-Xylene	EPA-8260	U	4.0	1	UG/L	06/28/2013	GAP
Styrene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
o-Xylene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromoform	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Isopropylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1,2,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
N-Propyl Benzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,3,5-Trimethylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
T-Butyl Benzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2,4-Trimethylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
S-Butyl Benzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
P-Isopropyltoluene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,3 Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
N-Butylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	06/28/2013	GAP
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Naphthalene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	81.7	06/20/2013	DLC
1,2-Dichloroethane-d4	EPA-8260 SIM	102	06/28/2013	GAP



CERTIFICATE OF ANALYSIS

CLIENT: Landau Associates, Inc. DATE: 7/3/2013  
130 - 2nd Ave. S. ALS JOB#: EV13060104  
Edmonds, WA 98020 ALS SAMPLE#: -08  
CLIENT CONTACT: Jeffrey Fellows DATE RECEIVED: 6/20/2013  
CLIENT PROJECT: Yakima Mill Site / #1148007.010 COLLECTION DATE: 6/19/2013 8:00:00 AM  
CLIENT SAMPLE ID TRIP BLANKS WDOE ACCREDITATION: C601

DATA RESULTS

SURROGATE	METHOD	%REC	ANALYSIS	
			DATE	BY
1,2-Dichloroethane-d4	EPA-8260	102	06/28/2013	GAP
Toluene-d8	EPA-8260	92.8	06/28/2013	GAP
4-Bromofluorobenzene	EPA-8260	99.1	06/28/2013	GAP

U - Analyte analyzed for but not detected at level above reporting limit.



**CERTIFICATE OF ANALYSIS**

CLIENT: Landau Associates, Inc. DATE: 7/3/2013  
 130 - 2nd Ave. S. ALS SDG#: EV13060104  
 Edmonds, WA 98020 WDOE ACCREDITATION: C601

CLIENT CONTACT: Jeffrey Fellows  
 CLIENT PROJECT: Yakima Mill Site / #1148007.010

**LABORATORY BLANK RESULTS**

**MBG-061813W - Batch 3834 - Water by NWTPH-GX**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	50	1	UG/L	06/18/2013	DLC

**MB-061913W - Batch 3839 - Water by NWTPH-DX**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX	U	130	1	UG/L	06/19/2013	LAP
TPH-Oil Range	NWTPH-DX	U	250	1	UG/L	06/19/2013	LAP

**MB-062813W - Batch 3856 - Water by EPA-8260 SIM**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Vinyl Chloride	EPA-8260 SIM	U	0.020	1	UG/L	06/28/2013	GAP
1,1-Dichloroethene	EPA-8260 SIM	U	0.020	1	UG/L	06/28/2013	GAP
Trichloroethene	EPA-8260 SIM	U	0.020	1	UG/L	06/28/2013	GAP

**MB-062813W - Batch 3855 - Water by EPA-8260**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Chloromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromomethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Chloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Carbon Disulfide	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Acetone	EPA-8260	U	25	1	UG/L	06/28/2013	GAP
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	06/28/2013	GAP
Acrylonitrile	EPA-8260	U	10	1	UG/L	06/28/2013	GAP
Methyl T-Butyl Ether	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
2-Butanone	EPA-8260	U	10	1	UG/L	06/28/2013	GAP
Cis-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Chloroform	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/3/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS SDG#:</b>	EV13060104
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>WDOE ACCREDITATION:</b>	C601

**LABORATORY BLANK RESULTS**

**MB-062813W - Batch 3855 - Water by EPA-8260**

1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Benzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Dibromomethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
4-Methyl-2-Pentanone	EPA-8260	U	10	1	UG/L	06/28/2013	GAP
Toluene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
2-Hexanone	EPA-8260	U	10	1	UG/L	06/28/2013	GAP
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Tetrachloroethylene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	06/28/2013	GAP
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Ethylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
m,p-Xylene	EPA-8260	U	4.0	1	UG/L	06/28/2013	GAP
Styrene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
o-Xylene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromoform	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Isopropylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1,2,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
N-Propyl Benzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,3,5-Trimethylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
T-Butyl Benzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2,4-Trimethylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
S-Butyl Benzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
P-Isopropyltoluene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,3 Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
N-Butylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	06/28/2013	GAP



**CERTIFICATE OF ANALYSIS**

CLIENT: Landau Associates, Inc. DATE: 7/3/2013  
 130 - 2nd Ave. S. ALS SDG#: EV13060104  
 Edmonds, WA 98020 WDOE ACCREDITATION: C601

CLIENT CONTACT: Jeffrey Fellows  
 CLIENT PROJECT: Yakima Mill Site / #1148007.010

**LABORATORY BLANK RESULTS**

**MB-062813W - Batch 3855 - Water by EPA-8260**

1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Naphthalene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP

**MB-062113W - Batch 3862 - Water by EPA-8270**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Pyridine	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
N-Nitrosodimethylamine	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Phenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Aniline	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Bis(2-Chloroethyl)Ether	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2-Chlorophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
1,3-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
1,4-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Benzyl Alcohol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
1,2-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2-Methylphenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Bis(2-Chloroisopropyl)Ether	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
3&4-Methylphenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
N-Nitroso-Di-N-Propylamine	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Hexachloroethane	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Nitrobenzene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Isophorone	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2-Nitrophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,4-Dimethylphenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Benzoic Acid	EPA-8270	U	10	1	UG/L	06/24/2013	LAP
Bis(2-Chloroethoxy)Methane	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,4-Dichlorophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
1,2,4-Trichlorobenzene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Naphthalene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
4-Chloroaniline	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,6-Dichlorophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Hexachlorobutadiene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
4-Chloro-3-Methylphenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2-Methylnaphthalene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
1-Methylnaphthalene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Hexachlorocyclopentadiene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,4,6-Trichlorophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/3/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS SDG#:	EV13060104
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	WDOE ACCREDITATION:	C601

**LABORATORY BLANK RESULTS**

**MB-062113W - Batch 3862 - Water by EPA-8270**

2,4,5-Trichlorophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2-Chloronaphthalene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2-Nitroaniline	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Acenaphthylene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Dimethylphthalate	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,6-Dinitrotoluene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Acenaphthene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
3-Nitroaniline	EPA-8270	U	5.0	1	UG/L	06/24/2013	LAP
2,4-Dinitrophenol	EPA-8270	U	10	1	UG/L	06/24/2013	LAP
4-Nitrophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Dibenzofuran	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,4-Dinitrotoluene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,3,4,6-Tetrachlorophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Diethylphthalate	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Fluorene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
4-Chlorophenyl-Phenylether	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
4-Nitroaniline	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
4,6-Dinitro-2-Methylphenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
N-Nitrosodiphenylamine	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Azobenzene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
4-Bromophenyl-Phenylether	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Hexachlorobenzene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Pentachlorophenol	EPA-8270	U	5.0	1	UG/L	06/24/2013	LAP
Phenanthrene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Anthracene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Carbazole	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Di-N-Butylphthalate	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Fluoranthene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Pyrene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Butylbenzylphthalate	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
3,3-Dichlorobenzidine	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Benzo[A]Anthracene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Chrysene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Di-N-Octylphthalate	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Benzo[B]Fluoranthene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Benzo[K]Fluoranthene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Benzo[A]Pyrene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Dibenz[A,H]Anthracene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP



**CERTIFICATE OF ANALYSIS**

CLIENT: Landau Associates, Inc. DATE: 7/3/2013  
 130 - 2nd Ave. S. ALS SDG#: EV13060104  
 Edmonds, WA 98020 WDOE ACCREDITATION: C601  
 CLIENT CONTACT: Jeffrey Fellows  
 CLIENT PROJECT: Yakima Mill Site / #1148007.010

**LABORATORY BLANK RESULTS**

**MB-062113W - Batch 3862 - Water by EPA-8270**

Benzo[G,H,I]Perylene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
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**MBLK-6202013 - Batch R81775 - Water by EPA-7196**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Chromium (VI)	EPA-7196	U	10	1	UG/L	06/20/2013	RAL

**MBLK-6202013 - Batch R81776 - Water by EPA-7196**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Chromium (VI)	EPA-7196	U	10	1	UG/L	06/20/2013	RAL

**MBLK-6252013 - Batch R81813 - Water by EPA-7470**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Mercury	EPA-7470	U	0.20	1	UG/L	06/25/2013	RAL

**MBLK-6252013 - Batch R81898 - Water by EPA-7470**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Mercury (Dissolved)	EPA-7470	U	0.20	1	UG/L	06/25/2013	RAL

**MB-062013W - Batch 3842 - Water by EPA-200.8**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Arsenic	EPA-200.8	U	1.0	1	UG/L	06/21/2013	RAL
Cadmium	EPA-200.8	U	1.0	1	UG/L	06/21/2013	RAL
Chromium	EPA-200.8	U	2.0	1	UG/L	06/21/2013	RAL
Iron	EPA-200.8	U	50	1	UG/L	06/21/2013	RAL
Lead	EPA-200.8	U	1.0	1	UG/L	06/21/2013	RAL
Manganese	EPA-200.8	U	2.0	1	UG/L	06/21/2013	RAL
Sodium	EPA-200.8	U	50	1	UG/L	06/21/2013	RAL

**MB1-062413W - Batch 3845 - Water by EPA-200.8**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Arsenic (Dissolved)	EPA-200.8	U	1.0	1	UG/L	06/25/2013	RAL
Cadmium (Dissolved)	EPA-200.8	U	1.0	1	UG/L	06/25/2013	RAL
Chromium (Dissolved)	EPA-200.8	U	2.0	1	UG/L	06/25/2013	RAL
Iron (Dissolved)	EPA-200.8	U	50	1	UG/L	06/25/2013	RAL



CERTIFICATE OF ANALYSIS

CLIENT: Landau Associates, Inc. DATE: 7/3/2013  
130 - 2nd Ave. S. ALS SDG#: EV13060104  
Edmonds, WA 98020 WDOE ACCREDITATION: C601  
CLIENT CONTACT: Jeffrey Fellows  
CLIENT PROJECT: Yakima Mill Site / #1148007.010

LABORATORY BLANK RESULTS

**MB1-062413W - Batch 3845 - Water by EPA-200.8**

Lead (Dissolved)	EPA-200.8	U	1.0	1	UG/L	06/25/2013	RAL
Manganese (Dissolved)	EPA-200.8	U	2.0	1	UG/L	06/25/2013	RAL
Sodium (Dissolved)	EPA-200.8	U	50	1	UG/L	06/25/2013	RAL





**CERTIFICATE OF ANALYSIS**

CLIENT: Landau Associates, Inc. DATE: 7/3/2013  
 130 - 2nd Ave. S. ALS SDG#: EV13060104  
 Edmonds, WA 98020 WDOE ACCREDITATION: C601

CLIENT CONTACT: Jeffrey Fellows  
 CLIENT PROJECT: Yakima Mill Site / #1148007.010

**LABORATORY CONTROL SAMPLE RESULTS**

**ALS Test Batch ID: 3834 - Water by NWTPH-GX**

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range - BS	NWTPH-GX	76.3			06/18/2013	DLC
TPH-Volatile Range - BSD	NWTPH-GX	75.0	2		06/18/2013	DLC

**ALS Test Batch ID: 3839 - Water by NWTPH-DX**

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range - BS	NWTPH-DX	82.6			06/19/2013	LAP
TPH-Diesel Range - BSD	NWTPH-DX	83.0	0		06/19/2013	LAP

**ALS Test Batch ID: 3856 - Water by EPA-8260 SIM**

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
1,1-Dichloroethene - BS	EPA-8260 SIM	124			07/02/2013	GAP
1,1-Dichloroethene - BSD	EPA-8260 SIM	122	2		07/02/2013	GAP
Trichloroethene - BS	EPA-8260 SIM	127			07/02/2013	GAP
Trichloroethene - BSD	EPA-8260 SIM	125	1		07/02/2013	GAP

**ALS Test Batch ID: 3855 - Water by EPA-8260**

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
1,1-Dichloroethene - BS	EPA-8260	124			07/02/2013	GAP
1,1-Dichloroethene - BSD	EPA-8260	122	2		07/02/2013	GAP
Benzene - BS	EPA-8260	128			07/02/2013	GAP
Benzene - BSD	EPA-8260	126	2		07/02/2013	GAP
Toluene - BS	EPA-8260	118			07/02/2013	GAP
Toluene - BSD	EPA-8260	116	1		07/02/2013	GAP
Chlorobenzene - BS	EPA-8260	103			07/02/2013	GAP
Chlorobenzene - BSD	EPA-8260	102	1		07/02/2013	GAP

**ALS Test Batch ID: 3862 - Water by EPA-8270**

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Phenol - BS	EPA-8270	30.2			07/02/2013	LAP
Phenol - BSD	EPA-8270	31.6	4		07/02/2013	LAP
2-Chlorophenol - BS	EPA-8270	85.6			07/02/2013	LAP
2-Chlorophenol - BSD	EPA-8270	85.1	1		07/02/2013	LAP
1,4-Dichlorobenzene - BS	EPA-8270	82.2			07/02/2013	LAP
1,4-Dichlorobenzene - BSD	EPA-8270	77.8	6		07/02/2013	LAP



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b> 7/3/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS SDG#:</b> EV13060104
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>WDOE ACCREDITATION:</b> C601

**LABORATORY CONTROL SAMPLE RESULTS**

<b>SPIKED COMPOUND</b>	<b>METHOD</b>	<b>%REC</b>	<b>RPD</b>	<b>QUAL</b>	<b>ANALYSIS DATE</b>	<b>ANALYSIS BY</b>
N-Nitroso-Di-N-Propylamine - BS	EPA-8270	75.2			07/02/2013	LAP
N-Nitroso-Di-N-Propylamine - BSD	EPA-8270	68.5	9		07/02/2013	LAP
1,2,4-Trichlorobenzene - BS	EPA-8270	80.7			07/02/2013	LAP
1,2,4-Trichlorobenzene - BSD	EPA-8270	75.6	7		07/02/2013	LAP
4-Chloro-3-Methylphenol - BS	EPA-8270	58.3		SQ3	07/02/2013	LAP
4-Chloro-3-Methylphenol - BSD	EPA-8270	60.0	3		07/02/2013	LAP
Acenaphthene - BS	EPA-8270	84.8			07/02/2013	LAP
Acenaphthene - BSD	EPA-8270	80.2	6		07/02/2013	LAP
4-Nitrophenol - BS	EPA-8270	16.4			07/02/2013	LAP
4-Nitrophenol - BSD	EPA-8270	12.6	26	SR1	07/02/2013	LAP
2,4-Dinitrotoluene - BS	EPA-8270	90.5			07/02/2013	LAP
2,4-Dinitrotoluene - BSD	EPA-8270	85.4	6		07/02/2013	LAP
Pentachlorophenol - BS	EPA-8270	89.7			07/02/2013	LAP
Pentachlorophenol - BSD	EPA-8270	84.4	6		07/02/2013	LAP
Pyrene - BS	EPA-8270	95.3			07/02/2013	LAP
Pyrene - BSD	EPA-8270	89.0	7		07/02/2013	LAP

SQ3 - Spike outside of control limits due to sporadic marginal failure. All other spikes in extraction fraction within control limits. No corrective action taken.  
SR1 - RPD outside of control limits.

**ALS Test Batch ID: R81775 - Water by EPA-7196**

<b>SPIKED COMPOUND</b>	<b>METHOD</b>	<b>%REC</b>	<b>RPD</b>	<b>QUAL</b>	<b>ANALYSIS DATE</b>	<b>ANALYSIS BY</b>
Chromium (VI) - BS	EPA-7196	103			06/20/2013	RAL
Chromium (VI) - BSD	EPA-7196	104	1		06/20/2013	RAL

**ALS Test Batch ID: R81776 - Water by EPA-7196**

<b>SPIKED COMPOUND</b>	<b>METHOD</b>	<b>%REC</b>	<b>RPD</b>	<b>QUAL</b>	<b>ANALYSIS DATE</b>	<b>ANALYSIS BY</b>
Chromium (VI) - BS	EPA-7196	103			06/20/2013	RAL
Chromium (VI) - BSD	EPA-7196	104	1		06/20/2013	RAL

**ALS Test Batch ID: R81813 - Water by EPA-7470**

<b>SPIKED COMPOUND</b>	<b>METHOD</b>	<b>%REC</b>	<b>RPD</b>	<b>QUAL</b>	<b>ANALYSIS DATE</b>	<b>ANALYSIS BY</b>
Mercury - BS	EPA-7470	97.0			06/25/2013	RAL
Mercury - BSD	EPA-7470	97.0	0		06/25/2013	RAL



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/3/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS SDG#:	EV13060104
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	WDOE ACCREDITATION:	C601

**LABORATORY CONTROL SAMPLE RESULTS**

**ALS Test Batch ID: R81898 - Water by EPA-7470**

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Mercury (Dissolved) - BS	EPA-7470	97.0			06/25/2013	RAL
Mercury (Dissolved) - BSD	EPA-7470	97.0	0		06/25/2013	RAL

**ALS Test Batch ID: 3842 - Water by EPA-200.8**

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Arsenic - BS	EPA-200.8	94.4			06/21/2013	RAL
Arsenic - BSD	EPA-200.8	94.8	0		06/21/2013	RAL
Cadmium - BS	EPA-200.8	95.5			06/21/2013	RAL
Cadmium - BSD	EPA-200.8	97.1	2		06/21/2013	RAL
Chromium - BS	EPA-200.8	94.4			06/21/2013	RAL
Chromium - BSD	EPA-200.8	95.3	1		06/21/2013	RAL
Iron - BS	EPA-200.8	95.3			06/21/2013	RAL
Iron - BSD	EPA-200.8	94.8	0		06/21/2013	RAL
Lead - BS	EPA-200.8	94.0			06/21/2013	RAL
Lead - BSD	EPA-200.8	93.9	0		06/21/2013	RAL
Manganese - BS	EPA-200.8	95.6			06/21/2013	RAL
Manganese - BSD	EPA-200.8	95.2	0		06/21/2013	RAL
Sodium - BS	EPA-200.8	93.8			06/21/2013	RAL
Sodium - BSD	EPA-200.8	94.6	1		06/21/2013	RAL

**ALS Test Batch ID: 3845 - Water by EPA-200.8**

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Arsenic (Dissolved) - BS	EPA-200.8	97.0			06/25/2013	RAL
Arsenic (Dissolved) - BSD	EPA-200.8	97.0	0		06/25/2013	RAL
Cadmium (Dissolved) - BS	EPA-200.8	102			06/25/2013	RAL
Cadmium (Dissolved) - BSD	EPA-200.8	104	2		06/25/2013	RAL
Chromium (Dissolved) - BS	EPA-200.8	95.2			06/25/2013	RAL
Chromium (Dissolved) - BSD	EPA-200.8	95.9	1		06/25/2013	RAL
Iron (Dissolved) - BS	EPA-200.8	95.6			06/25/2013	RAL
Iron (Dissolved) - BSD	EPA-200.8	95.8	0		06/25/2013	RAL
Lead (Dissolved) - BS	EPA-200.8	99.5			06/25/2013	RAL
Lead (Dissolved) - BSD	EPA-200.8	101	2		06/25/2013	RAL
Manganese (Dissolved) - BS	EPA-200.8	96.0			06/25/2013	RAL
Manganese (Dissolved) - BSD	EPA-200.8	95.6	0		06/25/2013	RAL
Sodium (Dissolved) - BS	EPA-200.8	99.0			06/25/2013	RAL
Sodium (Dissolved) - BSD	EPA-200.8	101	2		06/25/2013	RAL



CERTIFICATE OF ANALYSIS

CLIENT: Landau Associates, Inc. DATE: 7/3/2013  
130 - 2nd Ave. S. ALS SDG#: EV13060104  
Edmonds, WA 98020 WDOE ACCREDITATION: C601  
CLIENT CONTACT: Jeffrey Fellows  
CLIENT PROJECT: Yakima Mill Site / #1148007.010

LABORATORY CONTROL SAMPLE RESULTS

APPROVED BY

A handwritten signature in black ink, appearing to read "Paul Bagum".

Laboratory Director

# ALS ENVIRONMENTAL

## Sample Receiving Checklist

Client: Landon Associates ALS Job #: EV13060104

Project: Yakima Mill Site

Received Date: 6/20/13 Received Time: 8:00 By: RB

Type of shipping container: Cooler  Box  Other

Shipped via: UPS/FedEx  US Postal Service  Courier  Hand Delivered

Were custody seals on outside of sample? 

	Yes	No	N/A
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If yes, how many? one each Where? Top  
Custody seal date: 6-19-13 Seal name: Landon

Was Chain of Custody properly filled out (ink, signed, dated, etc.)? 

	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Did all bottles have labels? 

	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
--	-------------------------------------	--------------------------	--------------------------

Did all bottle labels and tags agree with Chain of Custody? 

	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
--	--------------------------	--------------------------	--------------------------

Were samples received within hold time? 

	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
--	-------------------------------------	--------------------------	--------------------------

Did all bottles arrive in good condition (unbroken, etc.)? 

	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
--	-------------------------------------	--------------------------	--------------------------

Was sufficient amount of sample sent for the tests indicated? 

	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
--	-------------------------------------	--------------------------	--------------------------

Was correct preservation added to samples? 

	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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If no, Sample Control added preservative to the following:

<u>Sample Number</u>	<u>Reagent</u>	<u>Analyte</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____

Were VOA vials checked for absence of air bubbles? 

	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
--	-------------------------------------	--------------------------	--------------------------

Bubbles present in sample #: \_\_\_\_\_

Temperature of cooler upon receipt: 1 - 1.9°C  
2 - 4.5°C  Cold  Cool  Ambient  N/A  
3 - 5.3°C All on Ice

Explain any discrepancies: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Was client contacted? \_\_\_\_\_ Who was called? \_\_\_\_\_ By whom? \_\_\_\_\_ Date: \_\_\_\_\_

Outcome of call: \_\_\_\_\_  
\_\_\_\_\_

- Seattle/Edmonds (425) 778-0907
- Tacoma (253) 926-2493
- Spokane (509) 327-9737
- Portland (503) 542-1080



# Chain-of-Custody Record

EV13060104

Date 6/19/13  
Page 1 of 1

Project Name Yakima Mill Site Project No. 1148007.010  
 Project Location/Event Yakima, WA  
 Sampler's Name Steve Sham, Matt Moroney  
 Project Contact Jeff Fellows  
 Send Results To Tim Swanson, Jeff Fellows, Anne Itzhak

Sample I.D.	Date	Time	Matrix	No. of Containers	Testing Parameters						Observations/Comments	Turnaround Time			
					VOCs *	Metals (dis) **	Cr 6+ (dis) *	Cr 6+ (tot) *	SuCs (tot) *	PAHs (8230 d)			PCBs (8230 d)	TDS (160.1)	TCX (3510 b)
1 FPP-D15-GW(18)	6/17/13	1330	WATER	2	X	X	X	X	X	X	X	X	X	Allow water samples to settle, collect aliquot from clear portion X NWTPH-Dx - run acid wash/silica gel cleanup  run samples standardized to _____ product  Analyze for EPH if no specific product identified  VOC/BTEX/VPH (soil): _____ non-preserved _____ preserved w/methanol _____ preserved w/sodium bisulfate Freeze upon receipt  Dissolved metal water samples field filtered * VOCs by 8260c (+) 8260 -- SIM for vinyl chloride + TCE ** Metals - AS Cd, Cr, Pb, Hg, Fe, Mn, & Ni * THREE COOLERS	Standard <input checked="" type="checkbox"/> Accelerated <input type="checkbox"/>
2 FPP-B13-GW(13)	6/17/13	1530	WATER	9	X	X	X	X	X	X	X	X	X		
3 FPP-B12-GW(18)	6/17/13	1735	WATER	2	X	X	X	X	X	X	X	X	X		
4 FPP-B02-GW(19)	6/19/13	0915	WATER	10	X	X	X	X	X	X	X	X	X		
5 FPP-B09-GW(18)	6/19/13	1050	WATER	10	X	X	X	X	X	X	X	X	X		
6 FPP-B07-GW(17)	6/19/13	1200	WATER	8	X	X	X	X	X	X	X	X	X		
7 FPP-B05-GW(18)	6/19/13	1315	WATER	10	X	X	X	X	X	X	X	X	X		
8 TRIP BLANKS				2	X	X	X	X	X	X	X	X	X		

Special Shipment/Handling or Storage Requirements

Relinquished by  
 Signature [Signature]  
 Printed Name MATT MORONEY  
 Company LAI  
 Date 6/19/13 Time 1600

Received by  
 Signature [Signature]  
 Printed Name KICK BAYAN  
 Company AS  
 Date 6/20/13 Time 8:00

Relinquished by  
 Signature \_\_\_\_\_  
 Printed Name \_\_\_\_\_  
 Company \_\_\_\_\_  
 Date \_\_\_\_\_ Time \_\_\_\_\_

Received by  
 Signature \_\_\_\_\_  
 Printed Name \_\_\_\_\_  
 Company \_\_\_\_\_  
 Date \_\_\_\_\_ Time \_\_\_\_\_

Method of Shipment

Dissolved metals + dissolved C-6 are not field-filtered



July 16, 2013

Mr. Jeffrey Fellows  
Landau Associates, Inc.  
130 - 2nd Ave. S.  
Edmonds, WA 98020

Dear Mr. Fellows,

On June 21st, 3 samples were received by our laboratory and assigned our laboratory project number EV13060119. The project was identified as your Yakima Mill Site / #1148007.010. The sample identification and requested analyses are outlined on the attached chain of custody record.

No abnormalities or nonconformances were observed during the analyses of the project samples.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group

Rick Bagan  
Laboratory Director



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/16/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060119
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-01
CLIENT SAMPLE ID	MW-12-01-06202013	DATE RECEIVED:	6/21/2013
		COLLECTION DATE:	6/20/2013 10:00:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	50	1	UG/L	06/22/2013	DLC
TPH-Diesel Range	NWTPH-DX w/ SGA	U	130	1	UG/L	06/24/2013	LAP
TPH-Oil Range	NWTPH-DX w/ SGA	U	250	1	UG/L	06/24/2013	LAP
Vinyl Chloride	EPA-8260 SIM	U	0.020	1	UG/L	06/29/2013	GAP
Trichloroethene	EPA-8260 SIM	<b>1.9</b>	0.020	1	UG/L	06/29/2013	GAP
Dichlorodifluoromethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Chloromethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Bromomethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Chloroethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Carbon Disulfide	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Acetone	EPA-8260	U	25	1	UG/L	06/29/2013	GAP
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	06/29/2013	GAP
Acrylonitrile	EPA-8260	U	10	1	UG/L	06/29/2013	GAP
Methyl T-Butyl Ether	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
2-Butanone	EPA-8260	U	10	1	UG/L	06/29/2013	GAP
Cis-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Chloroform	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Benzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Dibromomethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
4-Methyl-2-Pentanone	EPA-8260	U	10	1	UG/L	06/29/2013	GAP
Toluene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
2-Hexanone	EPA-8260	U	10	1	UG/L	06/29/2013	GAP
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP





**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/16/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13060119
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-01
<b>CLIENT SAMPLE ID</b>	MW-12-01-06202013	<b>DATE RECEIVED:</b>	6/21/2013
		<b>COLLECTION DATE:</b>	6/20/2013 10:00:00 AM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Tetrachloroethylene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	06/29/2013	GAP
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Ethylbenzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
m,p-Xylene	EPA-8260	U	4.0	1	UG/L	06/29/2013	GAP
Styrene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
o-Xylene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Bromoform	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Isopropylbenzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Bromobenzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
N-Propyl Benzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,3,5-Trimethylbenzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
T-Butyl Benzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,2,4-Trimethylbenzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
S-Butyl Benzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
P-Isopropyltoluene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,3 Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
N-Butylbenzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	06/29/2013	GAP
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Naphthalene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Naphthalene	EPA-8270 SIM	U	0.020	1	UG/L	06/24/2013	LAP
2-Methylnaphthalene	EPA-8270 SIM	U	0.020	1	UG/L	06/24/2013	LAP
1-Methylnaphthalene	EPA-8270 SIM	U	0.020	1	UG/L	06/24/2013	LAP
Acenaphthylene	EPA-8270 SIM	U	0.020	1	UG/L	06/24/2013	LAP
Acenaphthene	EPA-8270 SIM	U	0.020	1	UG/L	06/24/2013	LAP
Fluorene	EPA-8270 SIM	U	0.020	1	UG/L	06/24/2013	LAP
Phenanthrene	EPA-8270 SIM	U	0.020	1	UG/L	06/24/2013	LAP



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/16/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13060119
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-01
<b>CLIENT SAMPLE ID</b>	MW-12-01-06202013	<b>DATE RECEIVED:</b>	6/21/2013
		<b>COLLECTION DATE:</b>	6/20/2013 10:00:00 AM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Anthracene	EPA-8270 SIM	U	0.020	1	UG/L	06/24/2013	LAP
Fluoranthene	EPA-8270 SIM	U	0.020	1	UG/L	06/24/2013	LAP
Pyrene	EPA-8270 SIM	U	0.020	1	UG/L	06/24/2013	LAP
Benzo[A]Anthracene	EPA-8270 SIM	U	0.020	1	UG/L	06/24/2013	LAP
Chrysene	EPA-8270 SIM	U	0.020	1	UG/L	06/24/2013	LAP
Benzo[B]Fluoranthene	EPA-8270 SIM	U	0.020	1	UG/L	06/24/2013	LAP
Benzo[K]Fluoranthene	EPA-8270 SIM	U	0.020	1	UG/L	06/24/2013	LAP
Benzo[A]Pyrene	EPA-8270 SIM	U	0.029	1	UG/L	06/24/2013	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	0.020	1	UG/L	06/24/2013	LAP
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	0.020	1	UG/L	06/24/2013	LAP
Benzo[G,H,I]Perylene	EPA-8270 SIM	U	0.020	1	UG/L	06/24/2013	LAP
Pyridine	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
N-Nitrosodimethylamine	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Phenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Aniline	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Bis(2-Chloroethyl)Ether	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2-Chlorophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
1,3-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
1,4-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Benzyl Alcohol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
1,2-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2-Methylphenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Bis(2-Chloroisopropyl)Ether	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
3&4-Methylphenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
N-Nitroso-Di-N-Propylamine	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Hexachloroethane	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Nitrobenzene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Isophorone	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2-Nitrophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,4-Dimethylphenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Benzoic Acid	EPA-8270	U	10	1	UG/L	06/24/2013	LAP
Bis(2-Chloroethoxy)Methane	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,4-Dichlorophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
1,2,4-Trichlorobenzene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
4-Chloroaniline	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,6-Dichlorophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Hexachlorobutadiene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
4-Chloro-3-Methylphenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/16/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13060119
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-01
<b>CLIENT SAMPLE ID</b>	MW-12-01-06202013	<b>DATE RECEIVED:</b>	6/21/2013
		<b>COLLECTION DATE:</b>	6/20/2013 10:00:00 AM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Hexachlorocyclopentadiene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,4,6-Trichlorophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,4,5-Trichlorophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2-Chloronaphthalene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2-Nitroaniline	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Dimethylphthalate	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,6-Dinitrotoluene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
3-Nitroaniline	EPA-8270	U	5.0	1	UG/L	06/24/2013	LAP
2,4-Dinitrophenol	EPA-8270	U	10	1	UG/L	06/24/2013	LAP
4-Nitrophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Dibenzofuran	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,4-Dinitrotoluene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,3,4,6-Tetrachlorophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Diethylphthalate	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
4-Chlorophenyl-Phenylether	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
4-Nitroaniline	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
4,6-Dinitro-2-Methylphenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
N-Nitrosodiphenylamine	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Azobenzene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
4-Bromophenyl-Phenylether	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Hexachlorobenzene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Pentachlorophenol	EPA-8270	U	5.0	1	UG/L	06/24/2013	LAP
Carbazole	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Di-N-Butylphthalate	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Butylbenzylphthalate	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
3,3-Dichlorobenzidine	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Di-N-Octylphthalate	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
PCB-1016	EPA-8082	U	0.10	1	UG/L	06/27/2013	LAP
PCB-1268	EPA-8082	U	0.10	1	UG/L	06/27/2013	LAP
PCB-1221	EPA-8082	U	0.10	1	UG/L	06/27/2013	LAP
PCB-1232	EPA-8082	U	0.10	1	UG/L	06/27/2013	LAP
PCB-1242	EPA-8082	U	0.10	1	UG/L	06/27/2013	LAP
PCB-1248	EPA-8082	U	0.10	1	UG/L	06/27/2013	LAP
PCB-1254	EPA-8082	U	0.10	1	UG/L	06/27/2013	LAP
PCB-1260	EPA-8082	U	0.10	1	UG/L	06/27/2013	LAP
Chromium (VI)	EPA-7196	U	10	1	UG/L	06/21/2013	RAL
Chromium (VI)	EPA-7196	U	10	1	UG/L	06/21/2013	RAL



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/16/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060119
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-01
CLIENT SAMPLE ID	MW-12-01-06202013	DATE RECEIVED:	6/21/2013
		COLLECTION DATE:	6/20/2013 10:00:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Total Dissolved Solids	SM2540C	370	5.0	1	MG/L	06/25/2013	DLC
Mercury	EPA-7470	U	0.20	1	UG/L	06/26/2013	RAL
Mercury (Dissolved)	EPA-7470	U	0.20	1	UG/L	06/26/2013	RAL
Arsenic	EPA-200.8	1.3	1.0	1	UG/L	06/25/2013	RAL
Cadmium	EPA-200.8	U	1.0	1	UG/L	06/25/2013	RAL
Chromium	EPA-200.8	U	2.0	1	UG/L	06/25/2013	RAL
Iron	EPA-200.8	18000	50	1	UG/L	06/25/2013	RAL
Lead	EPA-200.8	U	1.0	1	UG/L	06/25/2013	RAL
Manganese	EPA-200.8	2200	10	5	UG/L	06/25/2013	RAL
Sodium	EPA-200.8	45000	50	1	UG/L	06/25/2013	RAL
Arsenic (Dissolved)	EPA-200.8	1.3	1.0	1	UG/L	06/25/2013	RAL
Cadmium (Dissolved)	EPA-200.8	U	1.0	1	UG/L	06/25/2013	RAL
Chromium (Dissolved)	EPA-200.8	U	2.0	1	UG/L	06/25/2013	RAL
Iron (Dissolved)	EPA-200.8	16000	50	1	UG/L	06/25/2013	RAL
Lead (Dissolved)	EPA-200.8	U	1.0	1	UG/L	06/25/2013	RAL
Manganese (Dissolved)	EPA-200.8	2400	10	5	UG/L	06/25/2013	RAL
Sodium (Dissolved)	EPA-200.8	45000	50	1	UG/L	06/25/2013	RAL
Total Organic Carbon (TOC)	SM5310C	8.0	0.50	1	MG/L	06/27/2013	CAS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	102	06/22/2013	DLC
C25	NWTPH-DX w/ SGA	98.8	06/24/2013	LAP
1,2-Dichloroethane-d4	EPA-8260 SIM	102	06/29/2013	GAP
1,2-Dichloroethane-d4	EPA-8260	102	06/29/2013	GAP
Toluene-d8	EPA-8260	93.2	06/29/2013	GAP
4-Bromofluorobenzene	EPA-8260	98.5	06/29/2013	GAP
Terphenyl-d14	EPA-8270 SIM	106	06/24/2013	LAP
2-Fluorophenol	EPA-8270	55.0	06/24/2013	LAP
Phenol-d5	EPA-8270	23.7	06/24/2013	LAP
Nitrobenzene-d5	EPA-8270	72.4	06/24/2013	LAP
2-Fluorobiphenyl	EPA-8270	74.7	06/24/2013	LAP
2,4,6-Tribromophenol	EPA-8270	101	06/24/2013	LAP
Terphenyl-d14	EPA-8270	106	06/24/2013	LAP
TCMX	EPA-8082	88.0	06/27/2013	LAP
DCB	EPA-8082	93.0	06/27/2013	LAP

U - Analyte analyzed for but not detected at level above reporting limit.



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/16/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060119
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-02
CLIENT SAMPLE ID	MW-9A-01-06202013	DATE RECEIVED:	6/21/2013
		COLLECTION DATE:	6/20/2013 10:50:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	50	1	UG/L	06/22/2013	DLC
TPH-Diesel Range	NWTPH-DX w/ SGA	U	130	1	UG/L	06/24/2013	LAP
TPH-Oil Range	NWTPH-DX w/ SGA	U	250	1	UG/L	06/24/2013	LAP
Vinyl Chloride	EPA-8260 SIM	U	0.020	1	UG/L	06/29/2013	GAP
Trichloroethene	EPA-8260 SIM	1.2	0.020	1	UG/L	06/29/2013	GAP
Dichlorodifluoromethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Chloromethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Bromomethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Chloroethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Carbon Disulfide	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Acetone	EPA-8260	U	25	1	UG/L	06/29/2013	GAP
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	06/29/2013	GAP
Acrylonitrile	EPA-8260	U	10	1	UG/L	06/29/2013	GAP
Methyl T-Butyl Ether	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
2-Butanone	EPA-8260	U	10	1	UG/L	06/29/2013	GAP
Cis-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Chloroform	EPA-8260	3.9	2.0	1	UG/L	06/29/2013	GAP
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Benzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Dibromomethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
4-Methyl-2-Pentanone	EPA-8260	U	10	1	UG/L	06/29/2013	GAP
Toluene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
2-Hexanone	EPA-8260	U	10	1	UG/L	06/29/2013	GAP
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/16/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13060119
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-02
<b>CLIENT SAMPLE ID</b>	MW-9A-01-06202013	<b>DATE RECEIVED:</b>	6/21/2013
		<b>COLLECTION DATE:</b>	6/20/2013 10:50:00 AM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Tetrachloroethylene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	06/29/2013	GAP
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Ethylbenzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
m,p-Xylene	EPA-8260	U	4.0	1	UG/L	06/29/2013	GAP
Styrene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
o-Xylene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Bromoform	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Isopropylbenzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Bromobenzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
N-Propyl Benzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,3,5-Trimethylbenzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
T-Butyl Benzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,2,4-Trimethylbenzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
S-Butyl Benzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
P-Isopropyltoluene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,3 Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
N-Butylbenzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	06/29/2013	GAP
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Naphthalene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Naphthalene	EPA-8270 SIM	U	0.020	1	UG/L	06/24/2013	LAP
2-Methylnaphthalene	EPA-8270 SIM	U	0.020	1	UG/L	06/24/2013	LAP
1-Methylnaphthalene	EPA-8270 SIM	U	0.020	1	UG/L	06/24/2013	LAP
Acenaphthylene	EPA-8270 SIM	U	0.020	1	UG/L	06/24/2013	LAP
Acenaphthene	EPA-8270 SIM	U	0.020	1	UG/L	06/24/2013	LAP
Fluorene	EPA-8270 SIM	U	0.020	1	UG/L	06/24/2013	LAP
Phenanthrene	EPA-8270 SIM	U	0.020	1	UG/L	06/24/2013	LAP



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/16/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13060119
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-02
<b>CLIENT SAMPLE ID</b>	MW-9A-01-06202013	<b>DATE RECEIVED:</b>	6/21/2013
		<b>COLLECTION DATE:</b>	6/20/2013 10:50:00 AM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Anthracene	EPA-8270 SIM	U	0.020	1	UG/L	06/24/2013	LAP
Fluoranthene	EPA-8270 SIM	U	0.020	1	UG/L	06/24/2013	LAP
Pyrene	EPA-8270 SIM	U	0.020	1	UG/L	06/24/2013	LAP
Benzo[A]Anthracene	EPA-8270 SIM	U	0.020	1	UG/L	06/24/2013	LAP
Chrysene	EPA-8270 SIM	U	0.020	1	UG/L	06/24/2013	LAP
Benzo[B]Fluoranthene	EPA-8270 SIM	U	0.020	1	UG/L	06/24/2013	LAP
Benzo[K]Fluoranthene	EPA-8270 SIM	U	0.020	1	UG/L	06/24/2013	LAP
Benzo[A]Pyrene	EPA-8270 SIM	U	0.029	1	UG/L	06/24/2013	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	0.020	1	UG/L	06/24/2013	LAP
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	0.020	1	UG/L	06/24/2013	LAP
Benzo[G,H,I]Perylene	EPA-8270 SIM	U	0.020	1	UG/L	06/24/2013	LAP
Pyridine	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
N-Nitrosodimethylamine	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Phenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Aniline	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Bis(2-Chloroethyl)Ether	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2-Chlorophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
1,3-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
1,4-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Benzyl Alcohol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
1,2-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2-Methylphenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Bis(2-Chloroisopropyl)Ether	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
3&4-Methylphenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
N-Nitroso-Di-N-Propylamine	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Hexachloroethane	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Nitrobenzene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Isophorone	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2-Nitrophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,4-Dimethylphenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Benzoic Acid	EPA-8270	U	10	1	UG/L	06/24/2013	LAP
Bis(2-Chloroethoxy)Methane	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,4-Dichlorophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
1,2,4-Trichlorobenzene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
4-Chloroaniline	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,6-Dichlorophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Hexachlorobutadiene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
4-Chloro-3-Methylphenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/16/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13060119
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-02
<b>CLIENT SAMPLE ID</b>	MW-9A-01-06202013	<b>DATE RECEIVED:</b>	6/21/2013
		<b>COLLECTION DATE:</b>	6/20/2013 10:50:00 AM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Hexachlorocyclopentadiene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,4,6-Trichlorophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,4,5-Trichlorophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2-Chloronaphthalene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2-Nitroaniline	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Dimethylphthalate	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,6-Dinitrotoluene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
3-Nitroaniline	EPA-8270	U	5.0	1	UG/L	06/24/2013	LAP
2,4-Dinitrophenol	EPA-8270	U	10	1	UG/L	06/24/2013	LAP
4-Nitrophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Dibenzofuran	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,4-Dinitrotoluene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,3,4,6-Tetrachlorophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Diethylphthalate	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
4-Chlorophenyl-Phenylether	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
4-Nitroaniline	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
4,6-Dinitro-2-Methylphenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
N-Nitrosodiphenylamine	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Azobenzene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
4-Bromophenyl-Phenylether	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Hexachlorobenzene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Pentachlorophenol	EPA-8270	U	5.0	1	UG/L	06/24/2013	LAP
Carbazole	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Di-N-Butylphthalate	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Butylbenzylphthalate	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
3,3-Dichlorobenzidine	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Di-N-Octylphthalate	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
PCB-1016	EPA-8082	U	0.10	1	UG/L	06/27/2013	LAP
PCB-1268	EPA-8082	U	0.10	1	UG/L	06/27/2013	LAP
PCB-1221	EPA-8082	U	0.10	1	UG/L	06/27/2013	LAP
PCB-1232	EPA-8082	U	0.10	1	UG/L	06/27/2013	LAP
PCB-1242	EPA-8082	U	0.10	1	UG/L	06/27/2013	LAP
PCB-1248	EPA-8082	U	0.10	1	UG/L	06/27/2013	LAP
PCB-1254	EPA-8082	U	0.10	1	UG/L	06/27/2013	LAP
PCB-1260	EPA-8082	U	0.10	1	UG/L	06/27/2013	LAP
Chromium (VI)	EPA-7196	U	10	1	UG/L	06/21/2013	RAL
Chromium (VI)	EPA-7196	U	10	1	UG/L	06/21/2013	RAL





**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/16/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060119
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-02
CLIENT SAMPLE ID	MW-9A-01-06202013	DATE RECEIVED:	6/21/2013
		COLLECTION DATE:	6/20/2013 10:50:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Total Dissolved Solids	SM2540C	160	5.0	1	MG/L	06/25/2013	DLC
Mercury	EPA-7470	U	0.20	1	UG/L	06/26/2013	RAL
Mercury (Dissolved)	EPA-7470	U	0.20	1	UG/L	06/26/2013	RAL
Arsenic	EPA-200.8	1.0	1.0	1	UG/L	06/25/2013	RAL
Cadmium	EPA-200.8	U	1.0	1	UG/L	06/25/2013	RAL
Chromium	EPA-200.8	U	2.0	1	UG/L	06/25/2013	RAL
Iron	EPA-200.8	U	50	1	UG/L	06/25/2013	RAL
Lead	EPA-200.8	U	1.0	1	UG/L	06/25/2013	RAL
Manganese	EPA-200.8	U	2.0	1	UG/L	06/25/2013	RAL
Sodium	EPA-200.8	11000	50	1	UG/L	06/25/2013	RAL
Arsenic (Dissolved)	EPA-200.8	1.0	1.0	1	UG/L	06/25/2013	RAL
Cadmium (Dissolved)	EPA-200.8	U	1.0	1	UG/L	06/25/2013	RAL
Chromium (Dissolved)	EPA-200.8	U	2.0	1	UG/L	06/25/2013	RAL
Iron (Dissolved)	EPA-200.8	U	50	1	UG/L	06/25/2013	RAL
Lead (Dissolved)	EPA-200.8	U	1.0	1	UG/L	06/25/2013	RAL
Manganese (Dissolved)	EPA-200.8	2.1	2.0	1	UG/L	06/25/2013	RAL
Sodium (Dissolved)	EPA-200.8	11000	50	1	UG/L	06/25/2013	RAL
Total Organic Carbon (TOC)	SM5310C	1.3	0.50	1	MG/L	06/27/2013	CAS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	93.2	06/22/2013	DLC
C25	NWTPH-DX w/ SGA	97.6	06/24/2013	LAP
1,2-Dichloroethane-d4	EPA-8260 SIM	105	06/29/2013	GAP
1,2-Dichloroethane-d4	EPA-8260	105	06/29/2013	GAP
Toluene-d8	EPA-8260	92.8	06/29/2013	GAP
4-Bromofluorobenzene	EPA-8260	100	06/29/2013	GAP
Terphenyl-d14	EPA-8270 SIM	121	06/24/2013	LAP
2-Fluorophenol	EPA-8270	64.0	06/24/2013	LAP
Phenol-d5	EPA-8270	28.8	06/24/2013	LAP
Nitrobenzene-d5	EPA-8270	86.1	06/24/2013	LAP
2-Fluorobiphenyl	EPA-8270	79.2	06/24/2013	LAP
2,4,6-Tribromophenol	EPA-8270	110	06/24/2013	LAP
Terphenyl-d14	EPA-8270	121	06/24/2013	LAP
TCMX	EPA-8082	88.0	06/27/2013	LAP
DCB	EPA-8082	92.0	06/27/2013	LAP

U - Analyte analyzed for but not detected at level above reporting limit.



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/16/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060119
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-03
CLIENT SAMPLE ID	TP-B04B-GW (18)	DATE RECEIVED:	6/21/2013
		COLLECTION DATE:	6/20/2013 3:00:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	50	1	UG/L	06/22/2013	DLC
TPH-Diesel Range	NWTPH-DX w/ SGA	U	130	1	UG/L	06/24/2013	LAP
TPH-Oil Range	NWTPH-DX w/ SGA	U	250	1	UG/L	06/24/2013	LAP
Vinyl Chloride	EPA-8260 SIM	U	0.020	1	UG/L	06/29/2013	GAP
Trichloroethene	EPA-8260 SIM	U	0.020	1	UG/L	06/29/2013	GAP
Dichlorodifluoromethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Chloromethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Bromomethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Chloroethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Carbon Disulfide	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Acetone	EPA-8260	U	25	1	UG/L	06/29/2013	GAP
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	06/29/2013	GAP
Acrylonitrile	EPA-8260	U	10	1	UG/L	06/29/2013	GAP
Methyl T-Butyl Ether	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
2-Butanone	EPA-8260	U	10	1	UG/L	06/29/2013	GAP
Cis-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Chloroform	EPA-8260	4.3	2.0	1	UG/L	06/29/2013	GAP
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Benzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Dibromomethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
4-Methyl-2-Pentanone	EPA-8260	U	10	1	UG/L	06/29/2013	GAP
Toluene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
2-Hexanone	EPA-8260	U	10	1	UG/L	06/29/2013	GAP
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/16/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13060119
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-03
<b>CLIENT SAMPLE ID</b>	TP-B04B-GW (18)	<b>DATE RECEIVED:</b>	6/21/2013
		<b>COLLECTION DATE:</b>	6/20/2013 3:00:00 PM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Tetrachloroethylene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	06/29/2013	GAP
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Ethylbenzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
m,p-Xylene	EPA-8260	U	4.0	1	UG/L	06/29/2013	GAP
Styrene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
o-Xylene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Bromoform	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Isopropylbenzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Bromobenzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
N-Propyl Benzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,3,5-Trimethylbenzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
T-Butyl Benzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,2,4-Trimethylbenzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
S-Butyl Benzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
P-Isopropyltoluene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,3 Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
N-Butylbenzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	06/29/2013	GAP
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Naphthalene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Pyridine	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
N-Nitrosodimethylamine	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Phenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Aniline	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Bis(2-Chloroethyl)Ether	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2-Chlorophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
1,3-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/16/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13060119
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-03
<b>CLIENT SAMPLE ID</b>	TP-B04B-GW (18)	<b>DATE RECEIVED:</b>	6/21/2013
		<b>COLLECTION DATE:</b>	6/20/2013 3:00:00 PM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,4-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Benzyl Alcohol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
1,2-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2-Methylphenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Bis(2-Chloroisopropyl)Ether	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
3&4-Methylphenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
N-Nitroso-Di-N-Propylamine	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Hexachloroethane	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Nitrobenzene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Isophorone	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2-Nitrophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,4-Dimethylphenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Benzoic Acid	EPA-8270	U	10	1	UG/L	06/24/2013	LAP
Bis(2-Chloroethoxy)Methane	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,4-Dichlorophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
1,2,4-Trichlorobenzene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Naphthalene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
4-Chloroaniline	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,6-Dichlorophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Hexachlorobutadiene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
4-Chloro-3-Methylphenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2-Methylnaphthalene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
1-Methylnaphthalene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Hexachlorocyclopentadiene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,4,6-Trichlorophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,4,5-Trichlorophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2-Chloronaphthalene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2-Nitroaniline	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Acenaphthylene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Dimethylphthalate	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,6-Dinitrotoluene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Acenaphthene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
3-Nitroaniline	EPA-8270	U	5.0	1	UG/L	06/24/2013	LAP
2,4-Dinitrophenol	EPA-8270	U	10	1	UG/L	06/24/2013	LAP
4-Nitrophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Dibenzofuran	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,4-Dinitrotoluene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,3,4,6-Tetrachlorophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/16/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060119
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-03
CLIENT SAMPLE ID	TP-B04B-GW (18)	DATE RECEIVED:	6/21/2013
		COLLECTION DATE:	6/20/2013 3:00:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Diethylphthalate	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Fluorene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
4-Chlorophenyl-Phenylether	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
4-Nitroaniline	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
4,6-Dinitro-2-Methylphenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
N-Nitrosodiphenylamine	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Azobenzene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
4-Bromophenyl-Phenylether	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Hexachlorobenzene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Pentachlorophenol	EPA-8270	U	5.0	1	UG/L	06/24/2013	LAP
Phenanthrene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Anthracene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Carbazole	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Di-N-Butylphthalate	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Fluoranthene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Pyrene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Butylbenzylphthalate	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
3,3-Dichlorobenzidine	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Benzo[A]Anthracene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Chrysene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Di-N-Octylphthalate	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Benzo[B]Fluoranthene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Benzo[K]Fluoranthene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Benzo[A]Pyrene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Dibenz[A,H]Anthracene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Benzo[G,H,I]Perylene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Chromium (VI)	EPA-7196	U	10	1	UG/L	06/21/2013	RAL
Chromium (VI)	EPA-7196	U	10	1	UG/L	06/21/2013	RAL
Mercury (Dissolved)	EPA-7470	U	0.20	1	UG/L	06/26/2013	RAL
Arsenic (Dissolved)	EPA-200.8	U	1.0	1	UG/L	06/25/2013	RAL
Cadmium (Dissolved)	EPA-200.8	U	1.0	1	UG/L	06/25/2013	RAL
Chromium (Dissolved)	EPA-200.8	U	2.0	1	UG/L	06/25/2013	RAL
Iron (Dissolved)	EPA-200.8	<b>94</b>	50	1	UG/L	06/25/2013	RAL
Lead (Dissolved)	EPA-200.8	U	1.0	1	UG/L	06/25/2013	RAL
Manganese (Dissolved)	EPA-200.8	<b>85</b>	2.0	1	UG/L	06/25/2013	RAL
Sodium (Dissolved)	EPA-200.8	<b>12000</b>	50	1	UG/L	06/25/2013	RAL



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/16/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060119
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-03
CLIENT SAMPLE ID	TP-B04B-GW (18)	DATE RECEIVED:	6/21/2013
		COLLECTION DATE:	6/20/2013 3:00:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

SURROGATE	METHOD	%REC	ANALYSIS	ANALYSIS
			DATE	BY
TFT	NWTPH-GX	98.8	06/22/2013	DLC
C25	NWTPH-DX w/ SGA	92.6	06/24/2013	LAP
1,2-Dichloroethane-d4	EPA-8260 SIM	103	06/29/2013	GAP
1,2-Dichloroethane-d4	EPA-8260	103	06/29/2013	GAP
Toluene-d8	EPA-8260	93.0	06/29/2013	GAP
4-Bromofluorobenzene	EPA-8260	99.2	06/29/2013	GAP
2-Fluorophenol	EPA-8270	65.8	06/24/2013	LAP
Phenol-d5	EPA-8270	29.1	06/24/2013	LAP
Nitrobenzene-d5	EPA-8270	82.3	06/24/2013	LAP
2-Fluorobiphenyl	EPA-8270	75.1	06/24/2013	LAP
2,4,6-Tribromophenol	EPA-8270	117	06/24/2013	LAP
Terphenyl-d14	EPA-8270	105	06/24/2013	LAP

U - Analyte analyzed for but not detected at level above reporting limit.



**CERTIFICATE OF ANALYSIS**

CLIENT: Landau Associates, Inc. DATE: 7/16/2013  
 130 - 2nd Ave. S. ALS SDG#: EV13060119  
 Edmonds, WA 98020 WDOE ACCREDITATION: C601  
 CLIENT CONTACT: Jeffrey Fellows  
 CLIENT PROJECT: Yakima Mill Site / #1148007.010

**LABORATORY BLANK RESULTS**

**MBG-061913W - Batch 3835 - Water by NWTPH-GX**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	50	1	UG/L	06/19/2013	DLC

**MB-061913W - Batch 3839 - Water by NWTPH-DX**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX	U	130	1	UG/L	06/19/2013	LAP
TPH-Oil Range	NWTPH-DX	U	250	1	UG/L	06/19/2013	LAP

**MB-062813W - Batch 3856 - Water by EPA-8260 SIM**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Vinyl Chloride	EPA-8260 SIM	U	0.020	1	UG/L	06/28/2013	GAP
1,1-Dichloroethene	EPA-8260 SIM	U	0.020	1	UG/L	06/28/2013	GAP
Trichloroethene	EPA-8260 SIM	U	0.020	1	UG/L	06/28/2013	GAP

**MB-062813W - Batch 3855 - Water by EPA-8260**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Chloromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromomethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Chloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Carbon Disulfide	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Acetone	EPA-8260	U	25	1	UG/L	06/28/2013	GAP
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	06/28/2013	GAP
Acrylonitrile	EPA-8260	U	10	1	UG/L	06/28/2013	GAP
Methyl T-Butyl Ether	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
2-Butanone	EPA-8260	U	10	1	UG/L	06/28/2013	GAP
Cis-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Chloroform	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/16/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS SDG#:	EV13060119
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	WDOE ACCREDITATION:	C601

**LABORATORY BLANK RESULTS**

**MB-062813W - Batch 3855 - Water by EPA-8260**

1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Benzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Dibromomethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
4-Methyl-2-Pentanone	EPA-8260	U	10	1	UG/L	06/28/2013	GAP
Toluene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
2-Hexanone	EPA-8260	U	10	1	UG/L	06/28/2013	GAP
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Tetrachloroethylene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	06/28/2013	GAP
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Ethylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
m,p-Xylene	EPA-8260	U	4.0	1	UG/L	06/28/2013	GAP
Styrene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
o-Xylene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromoform	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Isopropylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1,2,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
N-Propyl Benzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,3,5-Trimethylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
T-Butyl Benzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2,4-Trimethylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
S-Butyl Benzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
P-Isopropyltoluene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,3 Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
N-Butylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	06/28/2013	GAP





**CERTIFICATE OF ANALYSIS**

CLIENT: Landau Associates, Inc. DATE: 7/16/2013  
 130 - 2nd Ave. S. ALS SDG#: EV13060119  
 Edmonds, WA 98020 WDOE ACCREDITATION: C601

CLIENT CONTACT: Jeffrey Fellows  
 CLIENT PROJECT: Yakima Mill Site / #1148007.010

**LABORATORY BLANK RESULTS**

**MB-062813W - Batch 3855 - Water by EPA-8260**

1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Naphthalene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP

**MB-062113W - Batch 3896 - Water by EPA-8270 SIM**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Naphthalene	EPA-8270 SIM	U	0.020	1	UG/L	06/24/2013	LAP
2-Methylnaphthalene	EPA-8270 SIM	U	0.020	1	UG/L	06/24/2013	LAP
1-Methylnaphthalene	EPA-8270 SIM	U	0.020	1	UG/L	06/24/2013	LAP
Acenaphthylene	EPA-8270 SIM	U	0.020	1	UG/L	06/24/2013	LAP
Acenaphthene	EPA-8270 SIM	U	0.020	1	UG/L	06/24/2013	LAP
Fluorene	EPA-8270 SIM	U	0.020	1	UG/L	06/24/2013	LAP
Phenanthrene	EPA-8270 SIM	U	0.020	1	UG/L	06/24/2013	LAP
Anthracene	EPA-8270 SIM	U	0.020	1	UG/L	06/24/2013	LAP
Fluoranthene	EPA-8270 SIM	U	0.020	1	UG/L	06/24/2013	LAP
Pyrene	EPA-8270 SIM	U	0.020	1	UG/L	06/24/2013	LAP
Benzo[A]Anthracene	EPA-8270 SIM	U	0.020	1	UG/L	06/24/2013	LAP
Chrysene	EPA-8270 SIM	U	0.020	1	UG/L	06/24/2013	LAP
Benzo[B]Fluoranthene	EPA-8270 SIM	U	0.020	1	UG/L	06/24/2013	LAP
Benzo[K]Fluoranthene	EPA-8270 SIM	U	0.020	1	UG/L	06/24/2013	LAP
Benzo[A]Pyrene	EPA-8270 SIM	U	0.020	1	UG/L	06/24/2013	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	0.020	1	UG/L	06/24/2013	LAP
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	0.020	1	UG/L	06/24/2013	LAP
Benzo[G,H,I]Perylene	EPA-8270 SIM	U	0.020	1	UG/L	06/24/2013	LAP

**MB-062113W - Batch 3862 - Water by EPA-8270**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Pyridine	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
N-Nitrosodimethylamine	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Phenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Aniline	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Bis(2-Chloroethyl)Ether	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2-Chlorophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
1,3-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
1,4-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Benzyl Alcohol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
1,2-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/16/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS SDG#:	EV13060119
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	WDOE ACCREDITATION:	C601

**LABORATORY BLANK RESULTS**

**MB-062113W - Batch 3862 - Water by EPA-8270**

2-Methylphenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Bis(2-Chloroisopropyl)Ether	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
3&4-Methylphenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
N-Nitroso-Di-N-Propylamine	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Hexachloroethane	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Nitrobenzene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Isophorone	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2-Nitrophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,4-Dimethylphenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Benzoic Acid	EPA-8270	U	10	1	UG/L	06/24/2013	LAP
Bis(2-Chloroethoxy)Methane	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,4-Dichlorophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
1,2,4-Trichlorobenzene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Naphthalene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
4-Chloroaniline	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,6-Dichlorophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Hexachlorobutadiene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
4-Chloro-3-Methylphenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2-Methylnaphthalene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
1-Methylnaphthalene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Hexachlorocyclopentadiene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,4,6-Trichlorophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,4,5-Trichlorophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2-Chloronaphthalene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2-Nitroaniline	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Acenaphthylene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Dimethylphthalate	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,6-Dinitrotoluene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Acenaphthene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
3-Nitroaniline	EPA-8270	U	5.0	1	UG/L	06/24/2013	LAP
2,4-Dinitrophenol	EPA-8270	U	10	1	UG/L	06/24/2013	LAP
4-Nitrophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Dibenzofuran	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,4-Dinitrotoluene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,3,4,6-Tetrachlorophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Diethylphthalate	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Fluorene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
4-Chlorophenyl-Phenylether	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
4-Nitroaniline	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
4,6-Dinitro-2-Methylphenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP



**CERTIFICATE OF ANALYSIS**

CLIENT: Landau Associates, Inc. DATE: 7/16/2013  
 130 - 2nd Ave. S. ALS SDG#: EV13060119  
 Edmonds, WA 98020 WDOE ACCREDITATION: C601

CLIENT CONTACT: Jeffrey Fellows  
 CLIENT PROJECT: Yakima Mill Site / #1148007.010

**LABORATORY BLANK RESULTS**

**MB-062113W - Batch 3862 - Water by EPA-8270**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
N-Nitrosodiphenylamine	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Azobenzene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
4-Bromophenyl-Phenylether	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Hexachlorobenzene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Pentachlorophenol	EPA-8270	U	5.0	1	UG/L	06/24/2013	LAP
Phenanthrene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Anthracene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Carbazole	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Di-N-Butylphthalate	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Fluoranthene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Pyrene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Butylbenzylphthalate	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
3,3-Dichlorobenzidine	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Benzo[A]Anthracene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Chrysene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Di-N-Octylphthalate	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Benzo[B]Fluoranthene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Benzo[K]Fluoranthene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Benzo[A]Pyrene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Dibenz[A,H]Anthracene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Benzo[G,H,I]Perylene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP

**MBLK-6272013 - Batch R81941 - Water by EPA-8082**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
PCB-1016	EPA-8082	U	0.10	1	UG/L	06/27/2013	LAP
PCB-1268	EPA-8082	U	0.10	1	UG/L	06/27/2013	LAP
PCB-1221	EPA-8082	U	0.10	1	UG/L	06/27/2013	LAP
PCB-1232	EPA-8082	U	0.10	1	UG/L	06/27/2013	LAP
PCB-1242	EPA-8082	U	0.10	1	UG/L	06/27/2013	LAP
PCB-1248	EPA-8082	U	0.10	1	UG/L	06/27/2013	LAP
PCB-1254	EPA-8082	U	0.10	1	UG/L	06/27/2013	LAP
PCB-1260	EPA-8082	U	0.10	1	UG/L	06/27/2013	LAP

**MBLK-6212013 - Batch R81777 - Water by EPA-7196**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Chromium (VI)	EPA-7196	U	10	1	UG/L	06/21/2013	RAL



**CERTIFICATE OF ANALYSIS**

CLIENT: Landau Associates, Inc. DATE: 7/16/2013  
 130 - 2nd Ave. S. ALS SDG#: EV13060119  
 Edmonds, WA 98020 WDOE ACCREDITATION: C601  
 CLIENT CONTACT: Jeffrey Fellows  
 CLIENT PROJECT: Yakima Mill Site / #1148007.010

**LABORATORY BLANK RESULTS**

**MBLK-6212013 - Batch R81777 - Water by EPA-7196**

**MBLK-6212013 - Batch R81778 - Water by EPA-7196**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Chromium (VI)	EPA-7196	U	10	1	UG/L	06/21/2013	RAL

**MBLK-6252013 - Batch R81794 - Water by SM2540C**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Total Dissolved Solids	SM2540C	U	5.0	1	MG/L	06/25/2013	DLC

**MBLK-6262013 - Batch R81910 - Water by EPA-7470**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Mercury	EPA-7470	U	0.20	1	UG/L	06/26/2013	RAL

**MBLK-6262013 - Batch R81944 - Water by EPA-7470**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Mercury (Dissolved)	EPA-7470	U	0.20	1	UG/L	06/26/2013	RAL

**MB1-062413W - Batch 3844 - Water by EPA-200.8**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Arsenic	EPA-200.8	U	1.0	1	UG/L	06/25/2013	RAL
Cadmium	EPA-200.8	U	1.0	1	UG/L	06/25/2013	RAL
Chromium	EPA-200.8	U	2.0	1	UG/L	06/25/2013	RAL
Iron	EPA-200.8	U	50	1	UG/L	06/25/2013	RAL
Lead	EPA-200.8	U	1.0	1	UG/L	06/25/2013	RAL
Manganese	EPA-200.8	U	2.0	1	UG/L	06/25/2013	RAL
Sodium	EPA-200.8	U	50	1	UG/L	06/25/2013	RAL

**MB1-062413W - Batch 3845 - Water by EPA-200.8**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Arsenic (Dissolved)	EPA-200.8	U	1.0	1	UG/L	06/25/2013	RAL
Cadmium (Dissolved)	EPA-200.8	U	1.0	1	UG/L	06/25/2013	RAL
Chromium (Dissolved)	EPA-200.8	U	2.0	1	UG/L	06/25/2013	RAL
Iron (Dissolved)	EPA-200.8	U	50	1	UG/L	06/25/2013	RAL
Lead (Dissolved)	EPA-200.8	U	1.0	1	UG/L	06/25/2013	RAL



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/16/2013
		ALS SDG#:	EV13060119
		WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Jeffrey Fellows		
CLIENT PROJECT:	Yakima Mill Site / #1148007.010		

**LABORATORY BLANK RESULTS**

**MB1-062413W - Batch 3845 - Water by EPA-200.8**

Manganese (Dissolved)	EPA-200.8	U	2.0	1	UG/L	06/25/2013	RAL
Sodium (Dissolved)	EPA-200.8	U	50	1	UG/L	06/25/2013	RAL

**MBLK-6272013 - Batch R81943 - Water by SM5310C**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Total Organic Carbon (TOC)	SM5310C	U	0.50	1	MG/L	06/27/2013	CAS



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/16/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS SDG#:	EV13060119
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	WDOE ACCREDITATION:	C601

**LABORATORY CONTROL SAMPLE RESULTS**

**ALS Test Batch ID: 3835 - Water by NWTPH-GX**

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range - BS	NWTPH-GX	73.4			06/19/2013	DLC
TPH-Volatile Range - BSD	NWTPH-GX	72.5	1		06/19/2013	DLC

**ALS Test Batch ID: 3839 - Water by NWTPH-DX**

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range - BS	NWTPH-DX	82.6			06/19/2013	LAP
TPH-Diesel Range - BSD	NWTPH-DX	83.0	0		06/19/2013	LAP

**ALS Test Batch ID: 3856 - Water by EPA-8260 SIM**

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
1,1-Dichloroethene - BS	EPA-8260 SIM	124			07/02/2013	GAP
1,1-Dichloroethene - BSD	EPA-8260 SIM	122	2		07/02/2013	GAP
Trichloroethene - BS	EPA-8260 SIM	127			07/02/2013	GAP
Trichloroethene - BSD	EPA-8260 SIM	125	1		07/02/2013	GAP

**ALS Test Batch ID: 3855 - Water by EPA-8260**

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
1,1-Dichloroethene - BS	EPA-8260	124			07/02/2013	GAP
1,1-Dichloroethene - BSD	EPA-8260	122	2		07/02/2013	GAP
Benzene - BS	EPA-8260	128			07/02/2013	GAP
Benzene - BSD	EPA-8260	126	2		07/02/2013	GAP
Toluene - BS	EPA-8260	118			07/02/2013	GAP
Toluene - BSD	EPA-8260	116	1		07/02/2013	GAP
Chlorobenzene - BS	EPA-8260	103			07/02/2013	GAP
Chlorobenzene - BSD	EPA-8260	102	1		07/02/2013	GAP

**ALS Test Batch ID: 3896 - Water by EPA-8270 SIM**

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Acenaphthene - BS	EPA-8270 SIM	84.7			07/02/2013	LAP
Acenaphthene - BSD	EPA-8270 SIM	80.0	6		07/02/2013	LAP
Pyrene - BS	EPA-8270 SIM	94.8			07/02/2013	LAP
Pyrene - BSD	EPA-8270 SIM	88.5	7		07/02/2013	LAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/16/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS SDG#:	EV13060119
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	WDOE ACCREDITATION:	C601

**LABORATORY CONTROL SAMPLE RESULTS**

**ALS Test Batch ID: 3862 - Water by EPA-8270**

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Phenol - BS	EPA-8270	30.2			07/02/2013	LAP
Phenol - BSD	EPA-8270	31.6	4		07/02/2013	LAP
2-Chlorophenol - BS	EPA-8270	85.6			07/02/2013	LAP
2-Chlorophenol - BSD	EPA-8270	85.1	1		07/02/2013	LAP
1,4-Dichlorobenzene - BS	EPA-8270	82.2			07/02/2013	LAP
1,4-Dichlorobenzene - BSD	EPA-8270	77.8	6		07/02/2013	LAP
N-Nitroso-Di-N-Propylamine - BS	EPA-8270	75.2			07/02/2013	LAP
N-Nitroso-Di-N-Propylamine - BSD	EPA-8270	68.5	9		07/02/2013	LAP
1,2,4-Trichlorobenzene - BS	EPA-8270	80.7			07/02/2013	LAP
1,2,4-Trichlorobenzene - BSD	EPA-8270	75.6	7		07/02/2013	LAP
4-Chloro-3-Methylphenol - BS	EPA-8270	58.3		SQ3	07/02/2013	LAP
4-Chloro-3-Methylphenol - BSD	EPA-8270	60.0	3		07/02/2013	LAP
Acenaphthene - BS	EPA-8270	84.8			07/02/2013	LAP
Acenaphthene - BSD	EPA-8270	80.2	6		07/02/2013	LAP
4-Nitrophenol - BS	EPA-8270	16.4			07/02/2013	LAP
4-Nitrophenol - BSD	EPA-8270	12.6	26	SR1	07/02/2013	LAP
2,4-Dinitrotoluene - BS	EPA-8270	90.5			07/02/2013	LAP
2,4-Dinitrotoluene - BSD	EPA-8270	85.4	6		07/02/2013	LAP
Pentachlorophenol - BS	EPA-8270	89.7			07/02/2013	LAP
Pentachlorophenol - BSD	EPA-8270	84.4	6		07/02/2013	LAP
Pyrene - BS	EPA-8270	95.3			07/02/2013	LAP
Pyrene - BSD	EPA-8270	89.0	7		07/02/2013	LAP

SQ3 - Spike outside of control limits due to sporadic marginal failure. All other spikes in extraction fraction within control limits. No corrective action taken.  
SR1 - RPD outside of control limits.

**ALS Test Batch ID: R81941 - Water by EPA-8082**

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
PCB-1016 - BS	EPA-8082	86.0			06/27/2013	LAP
PCB-1016 - BSD	EPA-8082	82.0	5		06/27/2013	LAP
PCB-1260 - BS	EPA-8082	85.0			06/27/2013	LAP
PCB-1260 - BSD	EPA-8082	84.0	1		06/27/2013	LAP

**ALS Test Batch ID: R81777 - Water by EPA-7196**

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Chromium (VI) - BS	EPA-7196	106			06/21/2013	RAL
Chromium (VI) - BSD	EPA-7196	102	4		06/21/2013	RAL



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/16/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS SDG#:	EV13060119
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	WDOE ACCREDITATION:	C601

**LABORATORY CONTROL SAMPLE RESULTS**

**ALS Test Batch ID: R81778 - Water by EPA-7196**

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Chromium (VI) - BS	EPA-7196	106			06/21/2013	RAL
Chromium (VI) - BSD	EPA-7196	102	4		06/21/2013	RAL

**ALS Test Batch ID: R81794 - Water by SM2540C**

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Total Dissolved Solids - BS	SM2540C	96.0			06/25/2013	DLC

**ALS Test Batch ID: R81910 - Water by EPA-7470**

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Mercury - BS	EPA-7470	100			06/26/2013	RAL
Mercury - BSD	EPA-7470	100	0		06/26/2013	RAL

**ALS Test Batch ID: R81944 - Water by EPA-7470**

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Mercury (Dissolved) - BS	EPA-7470	100			06/26/2013	RAL
Mercury (Dissolved) - BSD	EPA-7470	100	0		06/26/2013	RAL

**ALS Test Batch ID: 3844 - Water by EPA-200.8**

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Arsenic - BS	EPA-200.8	97.0			06/25/2013	RAL
Arsenic - BSD	EPA-200.8	97.0	0		06/25/2013	RAL
Cadmium - BS	EPA-200.8	102			06/25/2013	RAL
Cadmium - BSD	EPA-200.8	104	2		06/25/2013	RAL
Chromium - BS	EPA-200.8	95.2			06/25/2013	RAL
Chromium - BSD	EPA-200.8	95.9	1		06/25/2013	RAL
Iron - BS	EPA-200.8	95.6			06/25/2013	RAL
Iron - BSD	EPA-200.8	95.8	0		06/25/2013	RAL
Lead - BS	EPA-200.8	99.5			06/25/2013	RAL
Lead - BSD	EPA-200.8	101	2		06/25/2013	RAL
Manganese - BS	EPA-200.8	96.0			06/25/2013	RAL
Manganese - BSD	EPA-200.8	95.6	0		06/25/2013	RAL
Sodium - BS	EPA-200.8	99.0			06/25/2013	RAL
Sodium - BSD	EPA-200.8	101	2		06/25/2013	RAL





**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/16/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS SDG#:	EV13060119
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	WDOE ACCREDITATION:	C601

**LABORATORY CONTROL SAMPLE RESULTS**

**ALS Test Batch ID: 3845 - Water by EPA-200.8**

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Arsenic (Dissolved) - BS	EPA-200.8	97.0			06/25/2013	RAL
Arsenic (Dissolved) - BSD	EPA-200.8	97.0	0		06/25/2013	RAL
Cadmium (Dissolved) - BS	EPA-200.8	102			06/25/2013	RAL
Cadmium (Dissolved) - BSD	EPA-200.8	104	2		06/25/2013	RAL
Chromium (Dissolved) - BS	EPA-200.8	95.2			06/25/2013	RAL
Chromium (Dissolved) - BSD	EPA-200.8	95.9	1		06/25/2013	RAL
Iron (Dissolved) - BS	EPA-200.8	95.6			06/25/2013	RAL
Iron (Dissolved) - BSD	EPA-200.8	95.8	0		06/25/2013	RAL
Lead (Dissolved) - BS	EPA-200.8	99.5			06/25/2013	RAL
Lead (Dissolved) - BSD	EPA-200.8	101	2		06/25/2013	RAL
Manganese (Dissolved) - BS	EPA-200.8	96.0			06/25/2013	RAL
Manganese (Dissolved) - BSD	EPA-200.8	95.6	0		06/25/2013	RAL
Sodium (Dissolved) - BS	EPA-200.8	99.0			06/25/2013	RAL
Sodium (Dissolved) - BSD	EPA-200.8	101	2		06/25/2013	RAL

**ALS Test Batch ID: R81943 - Water by SM5310C**

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Total Organic Carbon (TOC) - BS	SM5310C	93.0			06/27/2013	CAS
Total Organic Carbon (TOC) - BSD	SM5310C	92.3	1		06/27/2013	CAS

APPROVED BY

Laboratory Director

# ALS ENVIRONMENTAL

## Sample Receiving Checklist

Client: Landau Associates ALS Job #: EV13060119

Project: Yakima Mill Site / #1148007.010

Received Date: 6/21/13 Received Time: 8:45 By: SL

Type of shipping container: Cooler  Box  Other

Shipped via: UPS/FedEx  US Postal Service  Courier  Hand Delivered

	Yes	No	N/A
Were custody seals on outside of sample?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
If yes, how many? <u>1</u> Where? <u>outside cooler</u>			
Custody seal date: <u>6/20/13</u> Seal name: <u>Landau</u>			

Was Chain of Custody properly filled out (ink, signed, dated, etc.)?

Did all bottles have labels?

Did all bottle labels and tags agree with Chain of Custody?

Were samples received within hold time?

Did all bottles arrive in good condition (unbroken, etc.)?

Was sufficient amount of sample sent for the tests indicated?

Was correct preservation added to samples?

If no, Sample Control added preservative to the following:

<u>Sample Number</u>	<u>Reagent</u>	<u>Analyte</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____

Were VOA vials checked for absence of air bubbles?

Bubbles present in sample #: \_\_\_\_\_ None

Temperature of cooler upon receipt: 1.1°C on ice  Cold  Cool  Ambient  N/A

Explain any discrepancies: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Was client contacted? \_\_\_\_\_ Who was called? \_\_\_\_\_ By whom? \_\_\_\_\_ Date: \_\_\_\_\_

Outcome of call: \_\_\_\_\_  
\_\_\_\_\_

- Seattle/Edmonds (425) 778-0907
- Tacoma (253) 926-2493
- Spokane (509) 327-9737
- Portland (503) 542-1080



LANDAU ASSOCIATES

EV13060119

Date 6/20/13

Page 1 of 1

### Chain-of-Custody Record

Project Name YAKIMA MILL SITE Project No. 1148007.010

Project Location/Event YAKIMA, WA

Sampler's Name MATT MORONEY, STEVE SHAW, CHRIS DEBOER

Project Contact JEFF FELLOWS

Send Results To TIM SYVERSON, JEFF FELLOWS, ANNE HALVORSON

Sample I.D.	Date	Time	Matrix	No. of Containers	TURNPH-DX	TOTAL METALS*	DISOLVED METALS*	TOTAL CR 6 + DIS	SVOCS	PARTS	PCBS	TDS	TOC	Observations/Comments
1 MW-12-01-062013	6/20/13	1000	WATER	13	X	X	X	X	X	X	X	X	X	X. Allow water samples to settle, collect aliquot from clear portion
2 MW-9A-01-062013	6/20/13	1050	WATER	13	X	X	X	X	X	X	X	X	X	X. NWTPH-Dx - run acid wash/silica gel cleanup
3 TP-B0HB-GW(18)	6/20/13	1500	WATER	9	X	X	X	X	X	X	X	X	X	run samples standardized to _____ product

Other VOCs by S260C (SIM) FOR VINYL CHLORIDE + TCE

\*\* METALS - AS, CD, CR, PH, HG, FE, MN, TNA

6/21/13 - Per Jeff, total dissolved Cr6 on all 3 samples

DISSOLVED METALS ARE NOT FIELD-FILTERED

Special Shipment/Handling or Storage Requirements

Relinquished by

Signature Matt Moroney

Printed Name MATT MORONEY

Company LANDAU ASSOCIATES

Date 6/20/2013 Time 1600

Received by

Signature Shawn Roberson

Printed Name Shawn Roberson

Company ALS

Date 6/21/13 Time 8:45

Relinquished by

Signature \_\_\_\_\_

Printed Name \_\_\_\_\_

Company \_\_\_\_\_

Date \_\_\_\_\_ Time \_\_\_\_\_

Received by

Signature \_\_\_\_\_

Printed Name \_\_\_\_\_

Company \_\_\_\_\_

Date \_\_\_\_\_ Time \_\_\_\_\_

Method of Shipment

#### Testing Parameters

Turnaround Time

Standard

Accelerated

\_\_\_\_\_



July 15, 2013

Mr. Jeffrey Fellows  
Landau Associates, Inc.  
130 - 2nd Ave. S.  
Edmonds, WA 98020

Dear Mr. Fellows,

On June 24th, 65 samples were received by our laboratory and assigned our laboratory project number EV13060128. The project was identified as your Yakima Mill Site / #1148007.010. The sample identification and requested analyses are outlined on the attached chain of custody record.

No abnormalities or nonconformances were observed during the analyses of the project samples.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group

Rick Bagan  
Laboratory Director



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-01
CLIENT SAMPLE ID	FPP-B16-S (11.7-12.7)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/17/2013 12:31:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	U	25	1	MG/KG	06/25/2013	LAP
TPH-Oil Range	NWTPH-DX w/ SGA	<b>150</b>	50	1	MG/KG	06/25/2013	LAP
Mercury	EPA-7471	<b>0.032</b>	0.020	1	MG/KG	07/01/2013	RAL
Arsenic	EPA-6020	<b>2.3</b>	1.0	5	MG/KG	07/01/2013	RAL
Cadmium	EPA-6020	U	0.50	5	MG/KG	07/01/2013	RAL
Chromium	EPA-6020	<b>15</b>	0.52	5	MG/KG	07/01/2013	RAL
Iron	EPA-6020	<b>22000</b>	50	5	MG/KG	07/01/2013	RAL
Lead	EPA-6020	<b>13</b>	0.50	5	MG/KG	07/01/2013	RAL
Manganese	EPA-6020	<b>230</b>	0.50	5	MG/KG	07/01/2013	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX w/ SGA	<b>104</b>	06/25/2013	LAP

U - Analyte analyzed for but not detected at level above reporting limit.  
Chromatogram indicates that it is likely that sample contains light oil/lube oil.



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-02
CLIENT SAMPLE ID	FPP-B15-S (13.5-14.5)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/17/2013 1:25:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	U	25	1	MG/KG	06/25/2013	LAP
TPH-Oil Range	NWTPH-DX w/ SGA	U	50	1	MG/KG	06/25/2013	LAP
Mercury	EPA-7471	U	0.020	1	MG/KG	07/01/2013	RAL
Arsenic	EPA-6020	1.2	1.0	5	MG/KG	07/01/2013	RAL
Cadmium	EPA-6020	U	0.50	5	MG/KG	07/01/2013	RAL
Chromium	EPA-6020	17	0.50	5	MG/KG	07/01/2013	RAL
Iron	EPA-6020	26000	50	5	MG/KG	07/01/2013	RAL
Lead	EPA-6020	1.7	0.50	5	MG/KG	07/01/2013	RAL
Manganese	EPA-6020	250	0.50	5	MG/KG	07/01/2013	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX w/ SGA	101	06/25/2013	LAP

U - Analyte analyzed for but not detected at level above reporting limit.



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-03
CLIENT SAMPLE ID	FPP-B14-S (14-15)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/17/2013 2:30:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	U	25	1	MG/KG	06/25/2013	LAP
TPH-Oil Range	NWTPH-DX w/ SGA	U	50	1	MG/KG	06/25/2013	LAP
Mercury	EPA-7471	U	0.020	1	MG/KG	07/01/2013	RAL
Arsenic	EPA-6020	1.8	1.0	5	MG/KG	07/01/2013	RAL
Cadmium	EPA-6020	U	0.50	5	MG/KG	07/01/2013	RAL
Chromium	EPA-6020	16	0.50	5	MG/KG	07/01/2013	RAL
Iron	EPA-6020	23000	50	5	MG/KG	07/01/2013	RAL
Lead	EPA-6020	3.0	0.50	5	MG/KG	07/01/2013	RAL
Manganese	EPA-6020	300	0.50	5	MG/KG	07/01/2013	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX w/ SGA	105	06/25/2013	LAP

U - Analyte analyzed for but not detected at level above reporting limit.



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-04
CLIENT SAMPLE ID	FPP-B14-S (18.5-19.5)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/17/2013 2:40:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	U	25	1	MG/KG	06/25/2013	LAP
TPH-Oil Range	NWTPH-DX w/ SGA	960	50	1	MG/KG	06/25/2013	LAP
Mercury	EPA-7471	0.075	0.020	1	MG/KG	07/01/2013	RAL
Arsenic	EPA-6020	8.4	1.3	5	MG/KG	07/01/2013	RAL
Cadmium	EPA-6020	U	0.50	5	MG/KG	07/01/2013	RAL
Chromium	EPA-6020	14	0.66	5	MG/KG	07/01/2013	RAL
Iron	EPA-6020	20000	60	5	MG/KG	07/01/2013	RAL
Lead	EPA-6020	67	0.50	5	MG/KG	07/01/2013	RAL
Manganese	EPA-6020	240	0.52	5	MG/KG	07/01/2013	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX w/ SGA	92.9	06/25/2013	LAP

U - Analyte analyzed for but not detected at level above reporting limit.  
Chromatogram indicates that it is likely that sample contains light oil/lube oil.





**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/15/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13060128
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-05
<b>CLIENT SAMPLE ID</b>	FPP-B13-S (12-14.5)	<b>DATE RECEIVED:</b>	6/24/2013
		<b>COLLECTION DATE:</b>	6/17/2013 3:46:00 PM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	06/25/2013	GAP
TPH-Diesel Range	NWTPH-DX w/ SGA	U	25	1	MG/KG	06/25/2013	LAP
TPH-Oil Range	NWTPH-DX w/ SGA	U	50	1	MG/KG	06/25/2013	LAP
Dichlorodifluoromethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Chloromethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Vinyl Chloride	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Bromomethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Chloroethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Carbon Tetrachloride	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Trichlorofluoromethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Carbon Disulfide	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Acetone	EPA-8260	U	50	1	UG/KG	07/01/2013	GAP
1,1-Dichloroethene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Methylene Chloride	EPA-8260	U	20	1	UG/KG	07/01/2013	GAP
Acrylonitrile	EPA-8260	U	50	1	UG/KG	07/01/2013	GAP
Methyl T-Butyl Ether	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Trans-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,1-Dichloroethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
2-Butanone	EPA-8260	U	50	1	UG/KG	07/01/2013	GAP
Cis-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
2,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Bromochloromethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Chloroform	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,1,1-Trichloroethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,1-Dichloropropene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,2-Dichloroethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Benzene	EPA-8260	U	5.0	1	UG/KG	07/01/2013	GAP
Trichloroethene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Dibromomethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Bromodichloromethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Trans-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
4-Methyl-2-Pentanone	EPA-8260	U	50	1	UG/KG	07/01/2013	GAP
Toluene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Cis-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,1,2-Trichloroethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
2-Hexanone	EPA-8260	U	50	1	UG/KG	07/01/2013	GAP
1,3-Dichloropropane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/15/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13060128
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-05
<b>CLIENT SAMPLE ID</b>	FPP-B13-S (12-14.5)	<b>DATE RECEIVED:</b>	6/24/2013
		<b>COLLECTION DATE:</b>	6/17/2013 3:46:00 PM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Tetrachloroethylene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Dibromochloromethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,2-Dibromoethane	EPA-8260	U	5.0	1	UG/KG	07/01/2013	GAP
Chlorobenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Ethylbenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
m,p-Xylene	EPA-8260	U	20	1	UG/KG	07/01/2013	GAP
Styrene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
o-Xylene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Bromoform	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Isopropylbenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,2,3-Trichloropropane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Bromobenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
N-Propyl Benzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
2-Chlorotoluene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,3,5-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
4-Chlorotoluene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
T-Butyl Benzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,2,4-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
S-Butyl Benzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
P-Isopropyltoluene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,3 Dichlorobenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,4-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
N-Butylbenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,2-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	U	50	1	UG/KG	07/01/2013	GAP
1,2,4-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Hexachlorobutadiene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Naphthalene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,2,3-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Naphthalene	EPA-8270 SIM	U	0.010	1	MG/KG	07/02/2013	LAP
2-Methylnaphthalene	EPA-8270 SIM	U	0.010	1	MG/KG	07/02/2013	LAP
1-Methylnaphthalene	EPA-8270 SIM	U	0.010	1	MG/KG	07/02/2013	LAP
Acenaphthylene	EPA-8270 SIM	U	0.010	1	MG/KG	07/02/2013	LAP
Acenaphthene	EPA-8270 SIM	U	0.010	1	MG/KG	07/02/2013	LAP
Fluorene	EPA-8270 SIM	U	0.010	1	MG/KG	07/02/2013	LAP
Phenanthrene	EPA-8270 SIM	U	0.010	1	MG/KG	07/02/2013	LAP



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/15/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13060128
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-05
<b>CLIENT SAMPLE ID</b>	FPP-B13-S (12-14.5)	<b>DATE RECEIVED:</b>	6/24/2013
		<b>COLLECTION DATE:</b>	6/17/2013 3:46:00 PM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Anthracene	EPA-8270 SIM	U	0.010	1	MG/KG	07/02/2013	LAP
Fluoranthene	EPA-8270 SIM	U	0.010	1	MG/KG	07/02/2013	LAP
Pyrene	EPA-8270 SIM	U	0.010	1	MG/KG	07/02/2013	LAP
Benzo[A]Anthracene	EPA-8270 SIM	U	0.010	1	MG/KG	07/02/2013	LAP
Chrysene	EPA-8270 SIM	U	0.010	1	MG/KG	07/02/2013	LAP
Benzo[B]Fluoranthene	EPA-8270 SIM	U	0.010	1	MG/KG	07/02/2013	LAP
Benzo[K]Fluoranthene	EPA-8270 SIM	U	0.010	1	MG/KG	07/02/2013	LAP
Benzo[A]Pyrene	EPA-8270 SIM	U	0.010	1	MG/KG	07/02/2013	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	0.010	1	MG/KG	07/02/2013	LAP
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	0.010	1	MG/KG	07/02/2013	LAP
Benzo[G,H,I]Perylene	EPA-8270 SIM	U	0.010	1	MG/KG	07/02/2013	LAP
Pyridine	EPA-8270	U	200	1	UG/KG	07/02/2013	LAP
N-Nitrosodimethylamine	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
Phenol	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
Aniline	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
Bis(2-Chloroethyl)Ether	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
2-Chlorophenol	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
1,3-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
1,4-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
Benzyl Alcohol	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
1,2-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
2-Methylphenol	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
Bis(2-Chloroisopropyl)Ether	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
3&4-Methylphenol	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
N-Nitroso-Di-N-Propylamine	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
Hexachloroethane	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
Nitrobenzene	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
Isophorone	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
2-Nitrophenol	EPA-8270	U	250	1	UG/KG	07/02/2013	LAP
2,4-Dimethylphenol	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
Benzoic Acid	EPA-8270	U	1000	1	UG/KG	07/02/2013	LAP
Bis(2-Chloroethoxy)Methane	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
2,4-Dichlorophenol	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
1,2,4-Trichlorobenzene	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
4-Chloroaniline	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
2,6-Dichlorophenol	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
Hexachlorobutadiene	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
4-Chloro-3-Methylphenol	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-05
CLIENT SAMPLE ID	FPP-B13-S (12-14.5)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/17/2013 3:46:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Hexachlorocyclopentadiene	EPA-8270	U	500	1	UG/KG	07/02/2013	LAP
2,4,6-Trichlorophenol	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
2,4,5-Trichlorophenol	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
2-Chloronaphthalene	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
2-Nitroaniline	EPA-8270	U	250	1	UG/KG	07/02/2013	LAP
Dimethylphthalate	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
2,6-Dinitrotoluene	EPA-8270	U	250	1	UG/KG	07/02/2013	LAP
3-Nitroaniline	EPA-8270	U	250	1	UG/KG	07/02/2013	LAP
2,4-Dinitrophenol	EPA-8270	U	250	1	UG/KG	07/02/2013	LAP
4-Nitrophenol	EPA-8270	U	500	1	UG/KG	07/02/2013	LAP
Dibenzofuran	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
2,4-Dinitrotoluene	EPA-8270	U	250	1	UG/KG	07/02/2013	LAP
2,3,4,6-Tetrachlorophenol	EPA-8270	U	250	1	UG/KG	07/02/2013	LAP
Diethylphthalate	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
4-Chlorophenyl-Phenylether	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
4-Nitroaniline	EPA-8270	U	250	1	UG/KG	07/02/2013	LAP
4,6-Dinitro-2-Methylphenol	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
N-Nitrosodiphenylamine	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
Azobenzene	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
4-Bromophenyl-Phenylether	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
Hexachlorobenzene	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
Pentachlorophenol	EPA-8270	U	500	1	UG/KG	07/02/2013	LAP
Carbazole	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
Di-N-Butylphthalate	EPA-8270	U	130	1	UG/KG	07/02/2013	LAP
Butylbenzylphthalate	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
3,3-Dichlorobenzidine	EPA-8270	U	250	1	UG/KG	07/02/2013	LAP
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	130	1	UG/KG	07/02/2013	LAP
Di-N-Octylphthalate	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
PCB-1016	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
PCB-1268	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
PCB-1221	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
PCB-1232	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
PCB-1242	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
PCB-1248	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
PCB-1254	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
PCB-1260	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
Chromium (VI)	EPA-7196	U	5.0	1	MG/KG	06/28/2013	RAL
pH	EPA-9045	<b>8.86</b>	1.00	1	S.U.	06/25/2013	SMR



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-05
CLIENT SAMPLE ID	FPP-B13-S (12-14.5)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/17/2013 3:46:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Mercury	EPA-7471	0.022	0.020	1	MG/KG	07/01/2013	RAL
Arsenic	EPA-6020	1.6	1.0	5	MG/KG	07/01/2013	RAL
Cadmium	EPA-6020	U	0.50	5	MG/KG	07/01/2013	RAL
Chromium	EPA-6020	16	0.50	5	MG/KG	07/01/2013	RAL
Iron	EPA-6020	25000	50	5	MG/KG	07/01/2013	RAL
Lead	EPA-6020	2.9	0.50	5	MG/KG	07/01/2013	RAL
Manganese	EPA-6020	290	0.50	5	MG/KG	07/01/2013	RAL
Total Organic Carbon (TOC)	EPA-9060	0.11	0.10	1	%	07/01/2013	CAS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	86.8	06/25/2013	GAP
C25	NWTPH-DX w/ SGA	110	06/25/2013	LAP
1,2-Dichloroethane-d4	EPA-8260	126	07/01/2013	GAP
Toluene-d8	EPA-8260	86.7	07/01/2013	GAP
4-Bromofluorobenzene	EPA-8260	91.2	07/01/2013	GAP
Terphenyl-d14	EPA-8270 SIM	81.3	07/02/2013	LAP
2-Fluorophenol	EPA-8270	123 DS1	07/02/2013	LAP
Phenol-d5	EPA-8270	97.2	07/02/2013	LAP
Nitrobenzene-d5	EPA-8270	92.5	07/02/2013	LAP
2-Fluorobiphenyl	EPA-8270	78.3	07/02/2013	LAP
2,4,6-Tribromophenol	EPA-8270	91.1	07/02/2013	LAP
Terphenyl-d14	EPA-8270	81.3	07/02/2013	LAP
TCMX	EPA-8082	81.0	06/27/2013	LAP
DCB	EPA-8082	81.0	06/27/2013	LAP

U - Analyte analyzed for but not detected at level above reporting limit.  
 DS1 - Surrogate outside of control limits due to matrix effect.



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-06
CLIENT SAMPLE ID	FPP-B13-S (5.5-6.5)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/17/2013 3:59:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	U	25	1	MG/KG	06/25/2013	LAP
TPH-Oil Range	NWTPH-DX w/ SGA	U	50	1	MG/KG	06/25/2013	LAP
Mercury	EPA-7471	U	0.020	1	MG/KG	07/01/2013	RAL
Arsenic	EPA-6020	1.6	1.0	5	MG/KG	07/01/2013	RAL
Cadmium	EPA-6020	U	0.50	5	MG/KG	07/01/2013	RAL
Chromium	EPA-6020	19	0.50	5	MG/KG	07/01/2013	RAL
Iron	EPA-6020	23000	50	5	MG/KG	07/01/2013	RAL
Lead	EPA-6020	3.3	0.50	5	MG/KG	07/01/2013	RAL
Manganese	EPA-6020	370	0.50	5	MG/KG	07/01/2013	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX w/ SGA	105	06/25/2013	LAP

U - Analyte analyzed for but not detected at level above reporting limit.



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/15/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13060128
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-07
<b>CLIENT SAMPLE ID</b>	FPP-B12-S (6-7)	<b>DATE RECEIVED:</b>	6/24/2013
		<b>COLLECTION DATE:</b>	6/17/2013 5:20:00 PM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	06/25/2013	GAP
TPH-Diesel Range	NWTPH-DX w/ SGA	U	25	1	MG/KG	06/25/2013	LAP
TPH-Oil Range	NWTPH-DX w/ SGA	U	50	1	MG/KG	06/25/2013	LAP
Dichlorodifluoromethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Chloromethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Vinyl Chloride	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Bromomethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Chloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Carbon Tetrachloride	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Trichlorofluoromethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Carbon Disulfide	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Acetone	EPA-8260	U	50	1	UG/KG	06/28/2013	GAP
1,1-Dichloroethene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Methylene Chloride	EPA-8260	U	20	1	UG/KG	06/28/2013	GAP
Acrylonitrile	EPA-8260	U	50	1	UG/KG	06/28/2013	GAP
Methyl T-Butyl Ether	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Trans-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,1-Dichloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
2-Butanone	EPA-8260	U	50	1	UG/KG	06/28/2013	GAP
Cis-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
2,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Bromochloromethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Chloroform	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,1,1-Trichloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,1-Dichloropropene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2-Dichloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Benzene	EPA-8260	U	5.0	1	UG/KG	06/28/2013	GAP
Trichloroethene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Dibromomethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Bromodichloromethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Trans-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
4-Methyl-2-Pentanone	EPA-8260	U	50	1	UG/KG	06/28/2013	GAP
Toluene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Cis-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,1,2-Trichloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
2-Hexanone	EPA-8260	U	50	1	UG/KG	06/28/2013	GAP
1,3-Dichloropropane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/15/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13060128
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-07
<b>CLIENT SAMPLE ID</b>	FPP-B12-S (6-7)	<b>DATE RECEIVED:</b>	6/24/2013
		<b>COLLECTION DATE:</b>	6/17/2013 5:20:00 PM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Tetrachloroethylene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Dibromochloromethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2-Dibromoethane	EPA-8260	U	5.0	1	UG/KG	06/28/2013	GAP
Chlorobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Ethylbenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
m,p-Xylene	EPA-8260	U	20	1	UG/KG	06/28/2013	GAP
Styrene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
o-Xylene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Bromoform	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Isopropylbenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2,3-Trichloropropane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Bromobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
N-Propyl Benzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
2-Chlorotoluene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,3,5-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
4-Chlorotoluene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
T-Butyl Benzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2,4-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
S-Butyl Benzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
P-Isopropyltoluene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,3 Dichlorobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,4-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
N-Butylbenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	U	50	1	UG/KG	06/28/2013	GAP
1,2,4-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Hexachlorobutadiene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Naphthalene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2,3-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Naphthalene	EPA-8270 SIM	U	0.010	1	MG/KG	07/02/2013	LAP
2-Methylnaphthalene	EPA-8270 SIM	U	0.010	1	MG/KG	07/02/2013	LAP
1-Methylnaphthalene	EPA-8270 SIM	U	0.010	1	MG/KG	07/02/2013	LAP
Acenaphthylene	EPA-8270 SIM	U	0.010	1	MG/KG	07/02/2013	LAP
Acenaphthene	EPA-8270 SIM	U	0.010	1	MG/KG	07/02/2013	LAP
Fluorene	EPA-8270 SIM	U	0.010	1	MG/KG	07/02/2013	LAP
Phenanthrene	EPA-8270 SIM	U	0.010	1	MG/KG	07/02/2013	LAP





**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/15/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13060128
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-07
<b>CLIENT SAMPLE ID</b>	FPP-B12-S (6-7)	<b>DATE RECEIVED:</b>	6/24/2013
		<b>COLLECTION DATE:</b>	6/17/2013 5:20:00 PM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Anthracene	EPA-8270 SIM	U	0.010	1	MG/KG	07/02/2013	LAP
Fluoranthene	EPA-8270 SIM	U	0.010	1	MG/KG	07/02/2013	LAP
Pyrene	EPA-8270 SIM	U	0.010	1	MG/KG	07/02/2013	LAP
Benzo[A]Anthracene	EPA-8270 SIM	U	0.010	1	MG/KG	07/02/2013	LAP
Chrysene	EPA-8270 SIM	U	0.010	1	MG/KG	07/02/2013	LAP
Benzo[B]Fluoranthene	EPA-8270 SIM	U	0.010	1	MG/KG	07/02/2013	LAP
Benzo[K]Fluoranthene	EPA-8270 SIM	U	0.010	1	MG/KG	07/02/2013	LAP
Benzo[A]Pyrene	EPA-8270 SIM	U	0.010	1	MG/KG	07/02/2013	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	0.010	1	MG/KG	07/02/2013	LAP
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	0.010	1	MG/KG	07/02/2013	LAP
Benzo[G,H,I]Perylene	EPA-8270 SIM	U	0.010	1	MG/KG	07/02/2013	LAP
Pyridine	EPA-8270	U	200	1	UG/KG	07/02/2013	LAP
N-Nitrosodimethylamine	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
Phenol	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
Aniline	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
Bis(2-Chloroethyl)Ether	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
2-Chlorophenol	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
1,3-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
1,4-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
Benzyl Alcohol	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
1,2-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
2-Methylphenol	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
Bis(2-Chloroisopropyl)Ether	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
3&4-Methylphenol	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
N-Nitroso-Di-N-Propylamine	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
Hexachloroethane	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
Nitrobenzene	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
Isophorone	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
2-Nitrophenol	EPA-8270	U	250	1	UG/KG	07/02/2013	LAP
2,4-Dimethylphenol	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
Benzoic Acid	EPA-8270	U	1000	1	UG/KG	07/02/2013	LAP
Bis(2-Chloroethoxy)Methane	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
2,4-Dichlorophenol	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
1,2,4-Trichlorobenzene	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
4-Chloroaniline	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
2,6-Dichlorophenol	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
Hexachlorobutadiene	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
4-Chloro-3-Methylphenol	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-07
CLIENT SAMPLE ID	FPP-B12-S (6-7)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/17/2013 5:20:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Hexachlorocyclopentadiene	EPA-8270	U	500	1	UG/KG	07/02/2013	LAP
2,4,6-Trichlorophenol	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
2,4,5-Trichlorophenol	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
2-Chloronaphthalene	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
2-Nitroaniline	EPA-8270	U	250	1	UG/KG	07/02/2013	LAP
Dimethylphthalate	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
2,6-Dinitrotoluene	EPA-8270	U	250	1	UG/KG	07/02/2013	LAP
3-Nitroaniline	EPA-8270	U	250	1	UG/KG	07/02/2013	LAP
2,4-Dinitrophenol	EPA-8270	U	250	1	UG/KG	07/02/2013	LAP
4-Nitrophenol	EPA-8270	U	500	1	UG/KG	07/02/2013	LAP
Dibenzofuran	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
2,4-Dinitrotoluene	EPA-8270	U	250	1	UG/KG	07/02/2013	LAP
2,3,4,6-Tetrachlorophenol	EPA-8270	U	250	1	UG/KG	07/02/2013	LAP
Diethylphthalate	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
4-Chlorophenyl-Phenylether	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
4-Nitroaniline	EPA-8270	U	250	1	UG/KG	07/02/2013	LAP
4,6-Dinitro-2-Methylphenol	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
N-Nitrosodiphenylamine	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
Azobenzene	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
4-Bromophenyl-Phenylether	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
Hexachlorobenzene	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
Pentachlorophenol	EPA-8270	U	500	1	UG/KG	07/02/2013	LAP
Carbazole	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
Di-N-Butylphthalate	EPA-8270	U	130	1	UG/KG	07/02/2013	LAP
Butylbenzylphthalate	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
3,3-Dichlorobenzidine	EPA-8270	U	250	1	UG/KG	07/02/2013	LAP
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	130	1	UG/KG	07/02/2013	LAP
Di-N-Octylphthalate	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
PCB-1016	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
PCB-1268	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
PCB-1221	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
PCB-1232	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
PCB-1242	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
PCB-1248	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
PCB-1254	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
PCB-1260	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
Mercury	EPA-7471	U	0.020	1	MG/KG	07/01/2013	RAL
Arsenic	EPA-6020	1.6	1.0	5	MG/KG	07/01/2013	RAL



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-07
CLIENT SAMPLE ID	FPP-B12-S (6-7)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/17/2013 5:20:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Cadmium	EPA-6020	U	0.50	5	MG/KG	07/01/2013	RAL
Chromium	EPA-6020	14	0.50	5	MG/KG	07/01/2013	RAL
Iron	EPA-6020	18000	50	5	MG/KG	07/01/2013	RAL
Lead	EPA-6020	2.1	0.50	5	MG/KG	07/01/2013	RAL
Manganese	EPA-6020	240	0.50	5	MG/KG	07/01/2013	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	114	06/25/2013	GAP
C25	NWTPH-DX w/ SGA	113	06/25/2013	LAP
1,2-Dichloroethane-d4	EPA-8260	106	06/28/2013	GAP
Toluene-d8	EPA-8260	95.0	06/28/2013	GAP
4-Bromofluorobenzene	EPA-8260	98.0	06/28/2013	GAP
Terphenyl-d14	EPA-8270 SIM	92.0	07/02/2013	LAP
2-Fluorophenol	EPA-8270	111	07/02/2013	LAP
Phenol-d5	EPA-8270	90.3	07/02/2013	LAP
Nitrobenzene-d5	EPA-8270	88.5	07/02/2013	LAP
2-Fluorobiphenyl	EPA-8270	80.9	07/02/2013	LAP
2,4,6-Tribromophenol	EPA-8270	91.8	07/02/2013	LAP
Terphenyl-d14	EPA-8270	92.0	07/02/2013	LAP
TCMX	EPA-8082	104	06/27/2013	LAP
DCB	EPA-8082	95.0	06/27/2013	LAP

U - Analyte analyzed for but not detected at level above reporting limit.



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-08
CLIENT SAMPLE ID	FPP-B11-S (18-19)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/18/2013 8:50:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	06/25/2013	GAP
TPH-Diesel Range	NWTPH-DX w/ SGA	U	25	1	MG/KG	06/25/2013	LAP
TPH-Oil Range	NWTPH-DX w/ SGA	<b>170</b>	50	1	MG/KG	06/25/2013	LAP
Dichlorodifluoromethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Chloromethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Vinyl Chloride	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Bromomethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Chloroethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Carbon Tetrachloride	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Trichlorofluoromethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Carbon Disulfide	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Acetone	EPA-8260	U	50	1	UG/KG	07/01/2013	GAP
1,1-Dichloroethene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Methylene Chloride	EPA-8260	U	20	1	UG/KG	07/01/2013	GAP
Acrylonitrile	EPA-8260	U	50	1	UG/KG	07/01/2013	GAP
Methyl T-Butyl Ether	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Trans-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,1-Dichloroethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
2-Butanone	EPA-8260	U	50	1	UG/KG	07/01/2013	GAP
Cis-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
2,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Bromochloromethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Chloroform	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,1,1-Trichloroethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,1-Dichloropropene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,2-Dichloroethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Benzene	EPA-8260	U	5.0	1	UG/KG	07/01/2013	GAP
Trichloroethene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Dibromomethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Bromodichloromethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Trans-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
4-Methyl-2-Pentanone	EPA-8260	U	50	1	UG/KG	07/01/2013	GAP
Toluene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Cis-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,1,2-Trichloroethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
2-Hexanone	EPA-8260	U	50	1	UG/KG	07/01/2013	GAP
1,3-Dichloropropane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-08
CLIENT SAMPLE ID	FPP-B11-S (18-19)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/18/2013 8:50:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Tetrachloroethylene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Dibromochloromethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,2-Dibromoethane	EPA-8260	U	5.0	1	UG/KG	07/01/2013	GAP
Chlorobenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Ethylbenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
m,p-Xylene	EPA-8260	U	20	1	UG/KG	07/01/2013	GAP
Styrene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
o-Xylene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Bromoform	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Isopropylbenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,2,3-Trichloropropane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Bromobenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
N-Propyl Benzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
2-Chlorotoluene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,3,5-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
4-Chlorotoluene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
T-Butyl Benzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,2,4-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
S-Butyl Benzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
P-Isopropyltoluene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,3 Dichlorobenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,4-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
N-Butylbenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,2-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	U	50	1	UG/KG	07/01/2013	GAP
1,2,4-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Hexachlorobutadiene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Naphthalene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,2,3-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Naphthalene	EPA-8270 SIM	0.14	0.010	1	MG/KG	07/03/2013	LAP
2-Methylnaphthalene	EPA-8270 SIM	0.012	0.010	1	MG/KG	07/03/2013	LAP
1-Methylnaphthalene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Acenaphthylene	EPA-8270 SIM	0.054	0.010	1	MG/KG	07/03/2013	LAP
Acenaphthene	EPA-8270 SIM	0.013	0.010	1	MG/KG	07/03/2013	LAP
Fluorene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Phenanthrene	EPA-8270 SIM	0.075	0.010	1	MG/KG	07/03/2013	LAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-08
CLIENT SAMPLE ID	FPP-B11-S (18-19)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/18/2013 8:50:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Anthracene	EPA-8270 SIM	0.014	0.010	1	MG/KG	07/03/2013	LAP
Fluoranthene	EPA-8270 SIM	0.069	0.010	1	MG/KG	07/03/2013	LAP
Pyrene	EPA-8270 SIM	0.081	0.010	1	MG/KG	07/03/2013	LAP
Benzo[A]Anthracene	EPA-8270 SIM	0.011	0.010	1	MG/KG	07/03/2013	LAP
Chrysene	EPA-8270 SIM	0.012	0.010	1	MG/KG	07/03/2013	LAP
Benzo[B]Fluoranthene	EPA-8270 SIM	0.011	0.010	1	MG/KG	07/03/2013	LAP
Benzo[K]Fluoranthene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Benzo[A]Pyrene	EPA-8270 SIM	0.012	0.010	1	MG/KG	07/03/2013	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Benzo[G,H,I]Perylene	EPA-8270 SIM	0.015	0.010	1	MG/KG	07/03/2013	LAP
Pyridine	EPA-8270	U	200	1	UG/KG	07/03/2013	LAP
N-Nitrosodimethylamine	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Phenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Aniline	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Bis(2-Chloroethyl)Ether	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2-Chlorophenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
1,3-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
1,4-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Benzyl Alcohol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
1,2-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2-Methylphenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Bis(2-Chloroisopropyl)Ether	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
3&4-Methylphenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
N-Nitroso-Di-N-Propylamine	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Hexachloroethane	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Nitrobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Isophorone	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2-Nitrophenol	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
2,4-Dimethylphenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Benzoic Acid	EPA-8270	U	1000	1	UG/KG	07/03/2013	LAP
Bis(2-Chloroethoxy)Methane	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2,4-Dichlorophenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
1,2,4-Trichlorobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
4-Chloroaniline	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2,6-Dichlorophenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Hexachlorobutadiene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
4-Chloro-3-Methylphenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-08
CLIENT SAMPLE ID	FPP-B11-S (18-19)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/18/2013 8:50:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Hexachlorocyclopentadiene	EPA-8270	U	500	1	UG/KG	07/03/2013	LAP
2,4,6-Trichlorophenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2,4,5-Trichlorophenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2-Chloronaphthalene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2-Nitroaniline	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
Dimethylphthalate	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2,6-Dinitrotoluene	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
3-Nitroaniline	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
2,4-Dinitrophenol	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
4-Nitrophenol	EPA-8270	U	500	1	UG/KG	07/03/2013	LAP
Dibenzofuran	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2,4-Dinitrotoluene	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
2,3,4,6-Tetrachlorophenol	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
Diethylphthalate	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
4-Chlorophenyl-Phenylether	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
4-Nitroaniline	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
4,6-Dinitro-2-Methylphenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
N-Nitrosodiphenylamine	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Azobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
4-Bromophenyl-Phenylether	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Hexachlorobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Pentachlorophenol	EPA-8270	U	500	1	UG/KG	07/03/2013	LAP
Carbazole	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Di-N-Butylphthalate	EPA-8270	U	130	1	UG/KG	07/03/2013	LAP
Butylbenzylphthalate	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
3,3-Dichlorobenzidine	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	130	1	UG/KG	07/03/2013	LAP
Di-N-Octylphthalate	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
PCB-1016	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
PCB-1268	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
PCB-1221	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
PCB-1232	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
PCB-1242	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
PCB-1248	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
PCB-1254	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
PCB-1260	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
Mercury	EPA-7471	0.032	0.020	1	MG/KG	07/01/2013	RAL
Arsenic	EPA-6020	2.4	1.0	5	MG/KG	07/01/2013	RAL



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-08
CLIENT SAMPLE ID	FPP-B11-S (18-19)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/18/2013 8:50:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Cadmium	EPA-6020	U	0.50	5	MG/KG	07/01/2013	RAL
Chromium	EPA-6020	14	0.50	5	MG/KG	07/01/2013	RAL
Iron	EPA-6020	21000	50	5	MG/KG	07/01/2013	RAL
Lead	EPA-6020	7.6	0.50	5	MG/KG	07/01/2013	RAL
Manganese	EPA-6020	230	0.50	5	MG/KG	07/01/2013	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	95.6	06/25/2013	GAP
C25	NWTPH-DX w/ SGA	156	06/25/2013	LAP
1,2-Dichloroethane-d4	EPA-8260	128	07/01/2013	GAP
Toluene-d8	EPA-8260	82.7	07/01/2013	GAP
4-Bromofluorobenzene	EPA-8260	121	07/01/2013	GAP
Terphenyl-d14	EPA-8270 SIM	86.7	07/03/2013	LAP
2-Fluorophenol	EPA-8270	105	07/03/2013	LAP
Phenol-d5	EPA-8270	83.8	07/03/2013	LAP
Nitrobenzene-d5	EPA-8270	83.7	07/03/2013	LAP
2-Fluorobiphenyl	EPA-8270	80.1	07/03/2013	LAP
2,4,6-Tribromophenol	EPA-8270	97.1	07/03/2013	LAP
Terphenyl-d14	EPA-8270	86.7	07/03/2013	LAP
TCMX	EPA-8082	82.0	06/27/2013	LAP
DCB	EPA-8082	70.0	06/27/2013	LAP

U - Analyte analyzed for but not detected at level above reporting limit.  
Chromatogram indicates that it is likely that sample contains light oil/lube oil.





**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/15/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13060128
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-09
<b>CLIENT SAMPLE ID</b>	FPP-B10-S (10-11)	<b>DATE RECEIVED:</b>	6/24/2013
		<b>COLLECTION DATE:</b>	6/18/2013 10:35:00 AM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	06/25/2013	GAP
TPH-Diesel Range	NWTPH-DX w/ SGA	U	25	1	MG/KG	06/26/2013	LAP
TPH-Oil Range	NWTPH-DX w/ SGA	U	50	1	MG/KG	06/26/2013	LAP
Dichlorodifluoromethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Chloromethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Vinyl Chloride	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Bromomethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Chloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Carbon Tetrachloride	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Trichlorofluoromethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Carbon Disulfide	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Acetone	EPA-8260	U	50	1	UG/KG	06/28/2013	GAP
1,1-Dichloroethene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Methylene Chloride	EPA-8260	U	20	1	UG/KG	06/28/2013	GAP
Acrylonitrile	EPA-8260	U	50	1	UG/KG	06/28/2013	GAP
Methyl T-Butyl Ether	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Trans-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,1-Dichloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
2-Butanone	EPA-8260	U	50	1	UG/KG	06/28/2013	GAP
Cis-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
2,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Bromochloromethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Chloroform	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,1,1-Trichloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,1-Dichloropropene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2-Dichloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Benzene	EPA-8260	U	5.0	1	UG/KG	06/28/2013	GAP
Trichloroethene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Dibromomethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Bromodichloromethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Trans-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
4-Methyl-2-Pentanone	EPA-8260	U	50	1	UG/KG	06/28/2013	GAP
Toluene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Cis-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,1,2-Trichloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
2-Hexanone	EPA-8260	U	50	1	UG/KG	06/28/2013	GAP
1,3-Dichloropropane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-09
CLIENT SAMPLE ID	FPP-B10-S (10-11)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/18/2013 10:35:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Tetrachloroethylene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Dibromochloromethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2-Dibromoethane	EPA-8260	U	5.0	1	UG/KG	06/28/2013	GAP
Chlorobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Ethylbenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
m,p-Xylene	EPA-8260	U	20	1	UG/KG	06/28/2013	GAP
Styrene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
o-Xylene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Bromoform	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Isopropylbenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2,3-Trichloropropane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Bromobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
N-Propyl Benzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
2-Chlorotoluene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,3,5-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
4-Chlorotoluene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
T-Butyl Benzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2,4-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
S-Butyl Benzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
P-Isopropyltoluene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,3 Dichlorobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,4-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
N-Butylbenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	U	50	1	UG/KG	06/28/2013	GAP
1,2,4-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Hexachlorobutadiene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Naphthalene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2,3-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Naphthalene	EPA-8270 SIM	<b>0.012</b>	0.010	1	MG/KG	07/03/2013	LAP
2-Methylnaphthalene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
1-Methylnaphthalene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Acenaphthylene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Acenaphthene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Fluorene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Phenanthrene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-09
CLIENT SAMPLE ID	FPP-B10-S (10-11)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/18/2013 10:35:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Anthracene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Fluoranthene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Pyrene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Benzo[A]Anthracene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Chrysene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Benzo[B]Fluoranthene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Benzo[K]Fluoranthene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Benzo[A]Pyrene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Benzo[G,H,I]Perylene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Pyridine	EPA-8270	U	200	1	UG/KG	07/03/2013	LAP
N-Nitrosodimethylamine	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Phenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Aniline	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Bis(2-Chloroethyl)Ether	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2-Chlorophenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
1,3-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
1,4-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Benzyl Alcohol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
1,2-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2-Methylphenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Bis(2-Chloroisopropyl)Ether	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
3&4-Methylphenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
N-Nitroso-Di-N-Propylamine	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Hexachloroethane	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Nitrobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Isophorone	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2-Nitrophenol	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
2,4-Dimethylphenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Benzoic Acid	EPA-8270	U	1000	1	UG/KG	07/03/2013	LAP
Bis(2-Chloroethoxy)Methane	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2,4-Dichlorophenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
1,2,4-Trichlorobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
4-Chloroaniline	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2,6-Dichlorophenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Hexachlorobutadiene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
4-Chloro-3-Methylphenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-09
CLIENT SAMPLE ID	FPP-B10-S (10-11)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/18/2013 10:35:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Hexachlorocyclopentadiene	EPA-8270	U	500	1	UG/KG	07/03/2013	LAP
2,4,6-Trichlorophenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2,4,5-Trichlorophenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2-Chloronaphthalene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2-Nitroaniline	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
Dimethylphthalate	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2,6-Dinitrotoluene	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
3-Nitroaniline	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
2,4-Dinitrophenol	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
4-Nitrophenol	EPA-8270	U	500	1	UG/KG	07/03/2013	LAP
Dibenzofuran	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2,4-Dinitrotoluene	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
2,3,4,6-Tetrachlorophenol	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
Diethylphthalate	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
4-Chlorophenyl-Phenylether	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
4-Nitroaniline	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
4,6-Dinitro-2-Methylphenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
N-Nitrosodiphenylamine	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Azobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
4-Bromophenyl-Phenylether	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Hexachlorobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Pentachlorophenol	EPA-8270	U	500	1	UG/KG	07/03/2013	LAP
Carbazole	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Di-N-Butylphthalate	EPA-8270	U	130	1	UG/KG	07/03/2013	LAP
Butylbenzylphthalate	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
3,3-Dichlorobenzidine	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	130	1	UG/KG	07/03/2013	LAP
Di-N-Octylphthalate	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
PCB-1016	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
PCB-1268	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
PCB-1221	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
PCB-1232	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
PCB-1242	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
PCB-1248	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
PCB-1254	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
PCB-1260	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
Mercury	EPA-7471	0.061	0.020	1	MG/KG	07/01/2013	RAL
Arsenic	EPA-6020	2.1	1.0	5	MG/KG	07/01/2013	RAL



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-09
CLIENT SAMPLE ID	FPP-B10-S (10-11)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/18/2013 10:35:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Cadmium	EPA-6020	U	0.50	5	MG/KG	07/01/2013	RAL
Chromium	EPA-6020	16	0.50	5	MG/KG	07/01/2013	RAL
Iron	EPA-6020	22000	50	5	MG/KG	07/01/2013	RAL
Lead	EPA-6020	4.4	0.50	5	MG/KG	07/01/2013	RAL
Manganese	EPA-6020	260	0.50	5	MG/KG	07/01/2013	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	78.1	06/25/2013	GAP
C25	NWTPH-DX w/ SGA	107	06/26/2013	LAP
1,2-Dichloroethane-d4	EPA-8260	112	06/28/2013	GAP
Toluene-d8	EPA-8260	92.4	06/28/2013	GAP
4-Bromofluorobenzene	EPA-8260	96.5	06/28/2013	GAP
Terphenyl-d14	EPA-8270 SIM	88.3	07/03/2013	LAP
2-Fluorophenol	EPA-8270	102	07/03/2013	LAP
Phenol-d5	EPA-8270	82.7	07/03/2013	LAP
Nitrobenzene-d5	EPA-8270	83.1	07/03/2013	LAP
2-Fluorobiphenyl	EPA-8270	79.7	07/03/2013	LAP
2,4,6-Tribromophenol	EPA-8270	90.4	07/03/2013	LAP
Terphenyl-d14	EPA-8270	88.3	07/03/2013	LAP
TCMX	EPA-8082	83.0	06/27/2013	LAP
DCB	EPA-8082	77.0	06/27/2013	LAP

U - Analyte analyzed for but not detected at level above reporting limit.



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-10
CLIENT SAMPLE ID	FPP-B10-S (15-16)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/18/2013 10:45:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	U	25	1	MG/KG	06/26/2013	LAP
TPH-Oil Range	NWTPH-DX w/ SGA	79	50	1	MG/KG	06/26/2013	LAP
Mercury	EPA-7471	0.027	0.020	1	MG/KG	07/01/2013	RAL
Arsenic	EPA-6020	2.4	1.0	5	MG/KG	07/02/2013	RAL
Cadmium	EPA-6020	U	0.50	5	MG/KG	07/02/2013	RAL
Chromium	EPA-6020	21	0.50	5	MG/KG	07/02/2013	RAL
Iron	EPA-6020	22000	50	5	MG/KG	07/02/2013	RAL
Lead	EPA-6020	3.6	0.50	5	MG/KG	07/02/2013	RAL
Manganese	EPA-6020	200	0.50	5	MG/KG	07/02/2013	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX w/ SGA	108	06/26/2013	LAP

U - Analyte analyzed for but not detected at level above reporting limit.  
 Chromatogram indicates that it is likely that sample contains light oil/lube oil.



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-11
CLIENT SAMPLE ID	FPP-B06-S (15-16)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/18/2013 11:10:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	U	50	2	MG/KG	06/26/2013	LAP
TPH-Oil Range	NWTPH-DX w/ SGA	2100	100	2	MG/KG	06/26/2013	LAP
Mercury	EPA-7471	0.037	0.020	1	MG/KG	07/01/2013	RAL
Arsenic	EPA-6020	2.5	1.0	5	MG/KG	07/02/2013	RAL
Cadmium	EPA-6020	U	0.50	5	MG/KG	07/02/2013	RAL
Chromium	EPA-6020	39	0.50	5	MG/KG	07/02/2013	RAL
Iron	EPA-6020	22000	50	5	MG/KG	07/02/2013	RAL
Lead	EPA-6020	4.0	0.50	5	MG/KG	07/02/2013	RAL
Manganese	EPA-6020	280	0.50	5	MG/KG	07/02/2013	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25 2X Dilution	NWTPH-DX w/ SGA	64.5	06/26/2013	LAP

U - Analyte analyzed for but not detected at level above reporting limit.  
Chromatogram indicates that it is likely that sample contains light oil/lube oil.



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/15/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13060128
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-12
<b>CLIENT SAMPLE ID</b>	FPP-B08-S (5-6.5)	<b>DATE RECEIVED:</b>	6/24/2013
		<b>COLLECTION DATE:</b>	6/18/2013 11:50:00 AM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	06/24/2013	GAP
TPH-Diesel Range	NWTPH-DX w/ SGA	220	25	1	MG/KG	06/26/2013	LAP
TPH-Oil Range	NWTPH-DX w/ SGA	520	50	1	MG/KG	06/26/2013	LAP
Dichlorodifluoromethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Chloromethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Vinyl Chloride	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Bromomethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Chloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Carbon Tetrachloride	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Trichlorofluoromethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Carbon Disulfide	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Acetone	EPA-8260	U	50	1	UG/KG	06/28/2013	GAP
1,1-Dichloroethene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Methylene Chloride	EPA-8260	U	20	1	UG/KG	06/28/2013	GAP
Acrylonitrile	EPA-8260	U	50	1	UG/KG	06/28/2013	GAP
Methyl T-Butyl Ether	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Trans-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,1-Dichloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
2-Butanone	EPA-8260	U	50	1	UG/KG	06/28/2013	GAP
Cis-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
2,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Bromochloromethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Chloroform	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,1,1-Trichloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,1-Dichloropropene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2-Dichloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Benzene	EPA-8260	U	5.0	1	UG/KG	06/28/2013	GAP
Trichloroethene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Dibromomethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Bromodichloromethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Trans-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
4-Methyl-2-Pentanone	EPA-8260	U	50	1	UG/KG	06/28/2013	GAP
Toluene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Cis-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,1,2-Trichloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
2-Hexanone	EPA-8260	U	50	1	UG/KG	06/28/2013	GAP
1,3-Dichloropropane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP





**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-12
CLIENT SAMPLE ID	FPP-B08-S (5-6.5)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/18/2013 11:50:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Tetrachloroethylene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Dibromochloromethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2-Dibromoethane	EPA-8260	U	5.0	1	UG/KG	06/28/2013	GAP
Chlorobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Ethylbenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
m,p-Xylene	EPA-8260	U	20	1	UG/KG	06/28/2013	GAP
Styrene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
o-Xylene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Bromoform	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Isopropylbenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2,3-Trichloropropane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Bromobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
N-Propyl Benzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
2-Chlorotoluene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,3,5-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
4-Chlorotoluene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
T-Butyl Benzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2,4-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
S-Butyl Benzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
P-Isopropyltoluene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,3 Dichlorobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,4-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
N-Butylbenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	U	50	1	UG/KG	06/28/2013	GAP
1,2,4-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Hexachlorobutadiene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Naphthalene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2,3-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Naphthalene	EPA-8270 SIM	U	0.020	2	MG/KG	07/06/2013	LAP
2-Methylnaphthalene	EPA-8270 SIM	U	0.020	2	MG/KG	07/06/2013	LAP
1-Methylnaphthalene	EPA-8270 SIM	U	0.020	2	MG/KG	07/06/2013	LAP
Acenaphthylene	EPA-8270 SIM	U	0.020	2	MG/KG	07/06/2013	LAP
Acenaphthene	EPA-8270 SIM	U	0.020	2	MG/KG	07/06/2013	LAP
Fluorene	EPA-8270 SIM	U	0.020	2	MG/KG	07/06/2013	LAP
Phenanthrene	EPA-8270 SIM	<b>0.038</b>	0.020	2	MG/KG	07/06/2013	LAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-12
CLIENT SAMPLE ID	FPP-B08-S (5-6.5)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/18/2013 11:50:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Anthracene	EPA-8270 SIM	U	0.020	2	MG/KG	07/06/2013	LAP
Fluoranthene	EPA-8270 SIM	0.023	0.020	2	MG/KG	07/06/2013	LAP
Pyrene	EPA-8270 SIM	0.045	0.020	2	MG/KG	07/06/2013	LAP
Benzo[A]Anthracene	EPA-8270 SIM	U	0.020	2	MG/KG	07/06/2013	LAP
Chrysene	EPA-8270 SIM	0.042	0.020	2	MG/KG	07/06/2013	LAP
Benzo[B]Fluoranthene	EPA-8270 SIM	0.025	0.020	2	MG/KG	07/06/2013	LAP
Benzo[K]Fluoranthene	EPA-8270 SIM	U	0.020	2	MG/KG	07/06/2013	LAP
Benzo[A]Pyrene	EPA-8270 SIM	U	0.020	2	MG/KG	07/06/2013	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	0.020	2	MG/KG	07/06/2013	LAP
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	0.020	2	MG/KG	07/06/2013	LAP
Benzo[G,H,I]Perylene	EPA-8270 SIM	0.021	0.020	2	MG/KG	07/06/2013	LAP
Pyridine	EPA-8270	U	400	2	UG/KG	07/06/2013	LAP
N-Nitrosodimethylamine	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
Phenol	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
Aniline	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
Bis(2-Chloroethyl)Ether	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
2-Chlorophenol	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
1,3-Dichlorobenzene	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
1,4-Dichlorobenzene	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
Benzyl Alcohol	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
1,2-Dichlorobenzene	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
2-Methylphenol	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
Bis(2-Chloroisopropyl)Ether	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
3&4-Methylphenol	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
N-Nitroso-Di-N-Propylamine	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
Hexachloroethane	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
Nitrobenzene	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
Isophorone	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
2-Nitrophenol	EPA-8270	U	500	2	UG/KG	07/06/2013	LAP
2,4-Dimethylphenol	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
Benzoic Acid	EPA-8270	U	2000	2	UG/KG	07/06/2013	LAP
Bis(2-Chloroethoxy)Methane	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
2,4-Dichlorophenol	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
1,2,4-Trichlorobenzene	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
4-Chloroaniline	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
2,6-Dichlorophenol	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
Hexachlorobutadiene	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
4-Chloro-3-Methylphenol	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-12
CLIENT SAMPLE ID	FPP-B08-S (5-6.5)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/18/2013 11:50:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Hexachlorocyclopentadiene	EPA-8270	U	1000	2	UG/KG	07/06/2013	LAP
2,4,6-Trichlorophenol	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
2,4,5-Trichlorophenol	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
2-Chloronaphthalene	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
2-Nitroaniline	EPA-8270	U	500	2	UG/KG	07/06/2013	LAP
Dimethylphthalate	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
2,6-Dinitrotoluene	EPA-8270	U	500	2	UG/KG	07/06/2013	LAP
3-Nitroaniline	EPA-8270	U	500	2	UG/KG	07/06/2013	LAP
2,4-Dinitrophenol	EPA-8270	U	500	2	UG/KG	07/06/2013	LAP
4-Nitrophenol	EPA-8270	U	1000	2	UG/KG	07/06/2013	LAP
Dibenzofuran	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
2,4-Dinitrotoluene	EPA-8270	U	500	2	UG/KG	07/06/2013	LAP
2,3,4,6-Tetrachlorophenol	EPA-8270	U	500	2	UG/KG	07/06/2013	LAP
Diethylphthalate	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
4-Chlorophenyl-Phenylether	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
4-Nitroaniline	EPA-8270	U	500	2	UG/KG	07/06/2013	LAP
4,6-Dinitro-2-Methylphenol	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
N-Nitrosodiphenylamine	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
Azobenzene	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
4-Bromophenyl-Phenylether	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
Hexachlorobenzene	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
Pentachlorophenol	EPA-8270	U	1000	2	UG/KG	07/06/2013	LAP
Carbazole	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
Di-N-Butylphthalate	EPA-8270	U	260	2	UG/KG	07/06/2013	LAP
Butylbenzylphthalate	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
3,3-Dichlorobenzidine	EPA-8270	U	500	2	UG/KG	07/06/2013	LAP
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	260	2	UG/KG	07/06/2013	LAP
Di-N-Octylphthalate	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
Percent Solids	EPA-160.3	<b>85.4</b>	0	1	%	06/26/2013	LAP
pH	EPA-9045	<b>8.22</b>	1.00	1	S.U.	06/25/2013	SMR
Mercury	EPA-7471	<b>0.052</b>	0.020	1	MG/KG	07/01/2013	RAL
Arsenic	EPA-6020	<b>3.2</b>	1.0	5	MG/KG	07/02/2013	RAL
Cadmium	EPA-6020	U	0.50	5	MG/KG	07/02/2013	RAL
Chromium	EPA-6020	<b>17</b>	0.50	5	MG/KG	07/02/2013	RAL
Iron	EPA-6020	<b>23000</b>	50	5	MG/KG	07/02/2013	RAL
Lead	EPA-6020	<b>15</b>	0.50	5	MG/KG	07/02/2013	RAL
Manganese	EPA-6020	<b>360</b>	0.50	5	MG/KG	07/02/2013	RAL
Total Organic Carbon (TOC)	EPA-9060	<b>1.5</b>	0.10	1	%	07/01/2013	CAS



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-12
CLIENT SAMPLE ID	FPP-B08-S (5-6.5)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/18/2013 11:50:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

SURROGATE	METHOD	%REC	ANALYSIS	
			DATE	BY
TFT	NWTPH-GX	107	06/24/2013	GAP
C25	NWTPH-DX w/ SGA	113	06/26/2013	LAP
1,2-Dichloroethane-d4	EPA-8260	116	06/28/2013	GAP
Toluene-d8	EPA-8260	101	06/28/2013	GAP
4-Bromofluorobenzene	EPA-8260	127 GS1	06/28/2013	GAP
Terphenyl-d14 2X Dilution	EPA-8270 SIM	95.3	07/06/2013	LAP
2-Fluorophenol 2X Dilution	EPA-8270	111	07/06/2013	LAP
Phenol-d5 2X Dilution	EPA-8270	82.8	07/06/2013	LAP
Nitrobenzene-d5 2X Dilution	EPA-8270	87.2	07/06/2013	LAP
2-Fluorobiphenyl 2X Dilution	EPA-8270	81.3	07/06/2013	LAP
2,4,6-Tribromophenol 2X Dilution	EPA-8270	99.5	07/06/2013	LAP
Terphenyl-d14 2X Dilution	EPA-8270	95.3	07/06/2013	LAP

U - Analyte analyzed for but not detected at level above reporting limit.  
 GS1 - Surrogate outside of control limits due to matrix effect.  
 Chromatogram indicates that it is likely that sample contains highly weathered diesel and light oil/lube oil.  
 Diesel range product results biased high due to oil range product overlap.



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/15/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13060128
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-13
<b>CLIENT SAMPLE ID</b>	FPP-B04-S (11-12)	<b>DATE RECEIVED:</b>	6/24/2013
		<b>COLLECTION DATE:</b>	6/18/2013 1:20:00 PM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	06/24/2013	GAP
TPH-Diesel Range	NWTPH-DX w/ SGA	U	250	10	MG/KG	06/27/2013	LAP
TPH-Oil Range	NWTPH-DX w/ SGA	<b>9400</b>	500	10	MG/KG	06/27/2013	LAP
Dichlorodifluoromethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Chloromethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Vinyl Chloride	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Bromomethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Chloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Carbon Tetrachloride	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Trichlorofluoromethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Carbon Disulfide	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Acetone	EPA-8260	U	50	1	UG/KG	06/28/2013	GAP
1,1-Dichloroethene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Methylene Chloride	EPA-8260	U	20	1	UG/KG	06/28/2013	GAP
Acrylonitrile	EPA-8260	U	50	1	UG/KG	06/28/2013	GAP
Methyl T-Butyl Ether	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Trans-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,1-Dichloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
2-Butanone	EPA-8260	U	50	1	UG/KG	06/28/2013	GAP
Cis-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
2,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Bromochloromethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Chloroform	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,1,1-Trichloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,1-Dichloropropene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2-Dichloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Benzene	EPA-8260	U	5.0	1	UG/KG	06/28/2013	GAP
Trichloroethene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Dibromomethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Bromodichloromethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Trans-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
4-Methyl-2-Pentanone	EPA-8260	U	50	1	UG/KG	06/28/2013	GAP
Toluene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Cis-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,1,2-Trichloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
2-Hexanone	EPA-8260	U	50	1	UG/KG	06/28/2013	GAP
1,3-Dichloropropane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/15/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13060128
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-13
<b>CLIENT SAMPLE ID</b>	FPP-B04-S (11-12)	<b>DATE RECEIVED:</b>	6/24/2013
		<b>COLLECTION DATE:</b>	6/18/2013 1:20:00 PM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Tetrachloroethylene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Dibromochloromethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2-Dibromoethane	EPA-8260	U	5.0	1	UG/KG	06/28/2013	GAP
Chlorobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Ethylbenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
m,p-Xylene	EPA-8260	U	20	1	UG/KG	06/28/2013	GAP
Styrene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
o-Xylene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Bromoform	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Isopropylbenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2,3-Trichloropropane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Bromobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
N-Propyl Benzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
2-Chlorotoluene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,3,5-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
4-Chlorotoluene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
T-Butyl Benzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2,4-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
S-Butyl Benzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
P-Isopropyltoluene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,3 Dichlorobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,4-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
N-Butylbenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	U	50	1	UG/KG	06/28/2013	GAP
1,2,4-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Hexachlorobutadiene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Naphthalene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2,3-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Naphthalene	EPA-8270 SIM	U	0.10	10	MG/KG	07/09/2013	LAP
2-Methylnaphthalene	EPA-8270 SIM	U	0.10	10	MG/KG	07/09/2013	LAP
1-Methylnaphthalene	EPA-8270 SIM	U	0.10	10	MG/KG	07/09/2013	LAP
Acenaphthylene	EPA-8270 SIM	U	0.10	10	MG/KG	07/09/2013	LAP
Acenaphthene	EPA-8270 SIM	U	0.10	10	MG/KG	07/09/2013	LAP
Fluorene	EPA-8270 SIM	U	0.10	10	MG/KG	07/09/2013	LAP
Phenanthrene	EPA-8270 SIM	U	0.10	10	MG/KG	07/09/2013	LAP



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/15/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13060128
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-13
<b>CLIENT SAMPLE ID</b>	FPP-B04-S (11-12)	<b>DATE RECEIVED:</b>	6/24/2013
		<b>COLLECTION DATE:</b>	6/18/2013 1:20:00 PM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Anthracene	EPA-8270 SIM	U	0.10	10	MG/KG	07/09/2013	LAP
Fluoranthene	EPA-8270 SIM	U	0.10	10	MG/KG	07/09/2013	LAP
Pyrene	EPA-8270 SIM	U	0.10	10	MG/KG	07/09/2013	LAP
Benzo[A]Anthracene	EPA-8270 SIM	U	0.10	10	MG/KG	07/09/2013	LAP
Chrysene	EPA-8270 SIM	U	0.10	10	MG/KG	07/09/2013	LAP
Benzo[B]Fluoranthene	EPA-8270 SIM	U	0.10	10	MG/KG	07/09/2013	LAP
Benzo[K]Fluoranthene	EPA-8270 SIM	U	0.10	10	MG/KG	07/09/2013	LAP
Benzo[A]Pyrene	EPA-8270 SIM	U	0.10	10	MG/KG	07/09/2013	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	0.10	10	MG/KG	07/09/2013	LAP
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	0.10	10	MG/KG	07/09/2013	LAP
Benzo[G,H,I]Perylene	EPA-8270 SIM	U	0.10	10	MG/KG	07/09/2013	LAP
Pyridine	EPA-8270	U	2000	10	UG/KG	07/09/2013	LAP
N-Nitrosodimethylamine	EPA-8270	U	1000	10	UG/KG	07/09/2013	LAP
Phenol	EPA-8270	U	1000	10	UG/KG	07/09/2013	LAP
Aniline	EPA-8270	U	1000	10	UG/KG	07/09/2013	LAP
Bis(2-Chloroethyl)Ether	EPA-8270	U	1000	10	UG/KG	07/09/2013	LAP
2-Chlorophenol	EPA-8270	U	1000	10	UG/KG	07/09/2013	LAP
1,3-Dichlorobenzene	EPA-8270	U	1000	10	UG/KG	07/09/2013	LAP
1,4-Dichlorobenzene	EPA-8270	U	1000	10	UG/KG	07/09/2013	LAP
Benzyl Alcohol	EPA-8270	U	1000	10	UG/KG	07/09/2013	LAP
1,2-Dichlorobenzene	EPA-8270	U	1000	10	UG/KG	07/09/2013	LAP
2-Methylphenol	EPA-8270	U	1000	10	UG/KG	07/09/2013	LAP
Bis(2-Chloroisopropyl)Ether	EPA-8270	U	1000	10	UG/KG	07/09/2013	LAP
3&4-Methylphenol	EPA-8270	U	1000	10	UG/KG	07/09/2013	LAP
N-Nitroso-Di-N-Propylamine	EPA-8270	U	1000	10	UG/KG	07/09/2013	LAP
Hexachloroethane	EPA-8270	U	1000	10	UG/KG	07/09/2013	LAP
Nitrobenzene	EPA-8270	U	1000	10	UG/KG	07/09/2013	LAP
Isophorone	EPA-8270	U	1000	10	UG/KG	07/09/2013	LAP
2-Nitrophenol	EPA-8270	U	2500	10	UG/KG	07/09/2013	LAP
2,4-Dimethylphenol	EPA-8270	U	1000	10	UG/KG	07/09/2013	LAP
Benzoic Acid	EPA-8270	U	10000	10	UG/KG	07/09/2013	LAP
Bis(2-Chloroethoxy)Methane	EPA-8270	U	1000	10	UG/KG	07/09/2013	LAP
2,4-Dichlorophenol	EPA-8270	U	1000	10	UG/KG	07/09/2013	LAP
1,2,4-Trichlorobenzene	EPA-8270	U	1000	10	UG/KG	07/09/2013	LAP
4-Chloroaniline	EPA-8270	U	1000	10	UG/KG	07/09/2013	LAP
2,6-Dichlorophenol	EPA-8270	U	1000	10	UG/KG	07/09/2013	LAP
Hexachlorobutadiene	EPA-8270	U	1000	10	UG/KG	07/09/2013	LAP
4-Chloro-3-Methylphenol	EPA-8270	U	1000	10	UG/KG	07/09/2013	LAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-13
CLIENT SAMPLE ID	FFP-B04-S (11-12)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/18/2013 1:20:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Hexachlorocyclopentadiene	EPA-8270	U	5000	10	UG/KG	07/09/2013	LAP
2,4,6-Trichlorophenol	EPA-8270	U	1000	10	UG/KG	07/09/2013	LAP
2,4,5-Trichlorophenol	EPA-8270	U	1000	10	UG/KG	07/09/2013	LAP
2-Chloronaphthalene	EPA-8270	U	1000	10	UG/KG	07/09/2013	LAP
2-Nitroaniline	EPA-8270	U	2500	10	UG/KG	07/09/2013	LAP
Dimethylphthalate	EPA-8270	U	1000	10	UG/KG	07/09/2013	LAP
2,6-Dinitrotoluene	EPA-8270	U	2500	10	UG/KG	07/09/2013	LAP
3-Nitroaniline	EPA-8270	U	2500	10	UG/KG	07/09/2013	LAP
2,4-Dinitrophenol	EPA-8270	U	2500	10	UG/KG	07/09/2013	LAP
4-Nitrophenol	EPA-8270	U	5000	10	UG/KG	07/09/2013	LAP
Dibenzofuran	EPA-8270	U	1000	10	UG/KG	07/09/2013	LAP
2,4-Dinitrotoluene	EPA-8270	U	2500	10	UG/KG	07/09/2013	LAP
2,3,4,6-Tetrachlorophenol	EPA-8270	U	2500	10	UG/KG	07/09/2013	LAP
Diethylphthalate	EPA-8270	U	1000	10	UG/KG	07/09/2013	LAP
4-Chlorophenyl-Phenylether	EPA-8270	U	1000	10	UG/KG	07/09/2013	LAP
4-Nitroaniline	EPA-8270	U	2500	10	UG/KG	07/09/2013	LAP
4,6-Dinitro-2-Methylphenol	EPA-8270	U	1000	10	UG/KG	07/09/2013	LAP
N-Nitrosodiphenylamine	EPA-8270	U	1000	10	UG/KG	07/09/2013	LAP
Azobenzene	EPA-8270	U	1000	10	UG/KG	07/09/2013	LAP
4-Bromophenyl-Phenylether	EPA-8270	U	1000	10	UG/KG	07/09/2013	LAP
Hexachlorobenzene	EPA-8270	U	1000	10	UG/KG	07/09/2013	LAP
Pentachlorophenol	EPA-8270	U	5000	10	UG/KG	07/09/2013	LAP
Carbazole	EPA-8270	U	1000	10	UG/KG	07/09/2013	LAP
Di-N-Butylphthalate	EPA-8270	U	1300	10	UG/KG	07/09/2013	LAP
Butylbenzylphthalate	EPA-8270	U	1000	10	UG/KG	07/09/2013	LAP
3,3-Dichlorobenzidine	EPA-8270	U	2500	10	UG/KG	07/09/2013	LAP
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	1300	10	UG/KG	07/09/2013	LAP
Di-N-Octylphthalate	EPA-8270	U	1000	10	UG/KG	07/09/2013	LAP
PCB-1016	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
PCB-1268	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
PCB-1221	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
PCB-1232	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
PCB-1242	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
PCB-1248	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
PCB-1254	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
PCB-1260	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
Mercury	EPA-7471	0.028	0.020	1	MG/KG	07/01/2013	RAL
Arsenic	EPA-6020	2.2	1.0	5	MG/KG	07/02/2013	RAL





**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-13
CLIENT SAMPLE ID	FPP-B04-S (11-12)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/18/2013 1:20:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Cadmium	EPA-6020	U	0.50	5	MG/KG	07/02/2013	RAL
Chromium	EPA-6020	28	0.50	5	MG/KG	07/02/2013	RAL
Iron	EPA-6020	26000	50	5	MG/KG	07/02/2013	RAL
Lead	EPA-6020	3.5	0.50	5	MG/KG	07/02/2013	RAL
Manganese	EPA-6020	300	0.50	5	MG/KG	07/02/2013	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	124	06/24/2013	GAP
C25 10X Dilution	NWTPH-DX w/ SGA	18.0 DS2	06/27/2013	LAP
1,2-Dichloroethane-d4	EPA-8260	114	06/28/2013	GAP
Toluene-d8	EPA-8260	96.2	06/28/2013	GAP
4-Bromofluorobenzene	EPA-8260	187 GS1	06/28/2013	GAP
Terphenyl-d14 10X Dilution	EPA-8270 SIM	104	07/09/2013	LAP
2-Fluorophenol 10X Dilution	EPA-8270	107	07/09/2013	LAP
Phenol-d5 10X Dilution	EPA-8270	76.9	07/09/2013	LAP
Nitrobenzene-d5 10X Dilution	EPA-8270	83.1	07/09/2013	LAP
2-Fluorobiphenyl 10X Dilution	EPA-8270	84.8	07/09/2013	LAP
2,4,6-Tribromophenol 10X Dilution	EPA-8270	95.9	07/09/2013	LAP
Terphenyl-d14 10X Dilution	EPA-8270	104	07/09/2013	LAP
TCMX	EPA-8082	74.0	06/27/2013	LAP
DCB	EPA-8082	63.0	06/27/2013	LAP

DS2 - Due to high dilution factor surrogate results should be considered uncontrolled.  
 GS1 - Surrogate outside of control limits due to matrix effect.  
 U - Analyte analyzed for but not detected at level above reporting limit.  
 Chromatogram indicates that it is likely that sample contains light oil/lube oil.



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-14
CLIENT SAMPLE ID	FPP-B04-S (21-22)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/18/2013 1:35:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	06/25/2013	GAP
TPH-Diesel Range	NWTPH-DX w/ SGA	U	25	1	MG/KG	06/26/2013	LAP
TPH-Oil Range	NWTPH-DX w/ SGA	710	50	1	MG/KG	06/26/2013	LAP
Mercury	EPA-7471	0.035	0.020	1	MG/KG	07/01/2013	RAL
Arsenic	EPA-6020	4.7	1.3	5	MG/KG	07/02/2013	RAL
Cadmium	EPA-6020	U	0.50	5	MG/KG	07/02/2013	RAL
Chromium	EPA-6020	17	0.64	5	MG/KG	07/02/2013	RAL
Iron	EPA-6020	20000	58	5	MG/KG	07/02/2013	RAL
Lead	EPA-6020	14	0.50	5	MG/KG	07/02/2013	RAL
Manganese	EPA-6020	250	0.50	5	MG/KG	07/02/2013	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	90.9	06/25/2013	GAP
C25	NWTPH-DX w/ SGA	111	06/26/2013	LAP

U - Analyte analyzed for but not detected at level above reporting limit.  
Chromatogram indicates that it is likely that sample contains light oil/lube oil.



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-15
CLIENT SAMPLE ID	FPP-B01-S (0.5-1.5)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/18/2013 2:41:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	06/24/2013	GAP
TPH-Diesel Range	NWTPH-DX w/ SGA	U	25	1	MG/KG	06/26/2013	LAP
TPH-Oil Range	NWTPH-DX w/ SGA	<b>130</b>	50	1	MG/KG	06/26/2013	LAP
Dichlorodifluoromethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Chloromethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Vinyl Chloride	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Bromomethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Chloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Carbon Tetrachloride	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Trichlorofluoromethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Carbon Disulfide	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Acetone	EPA-8260	U	50	1	UG/KG	06/28/2013	GAP
1,1-Dichloroethene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Methylene Chloride	EPA-8260	U	20	1	UG/KG	06/28/2013	GAP
Acrylonitrile	EPA-8260	U	50	1	UG/KG	06/28/2013	GAP
Methyl T-Butyl Ether	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Trans-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,1-Dichloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
2-Butanone	EPA-8260	U	50	1	UG/KG	06/28/2013	GAP
Cis-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
2,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Bromochloromethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Chloroform	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,1,1-Trichloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,1-Dichloropropene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2-Dichloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Benzene	EPA-8260	U	5.0	1	UG/KG	06/28/2013	GAP
Trichloroethene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Dibromomethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Bromodichloromethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Trans-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
4-Methyl-2-Pentanone	EPA-8260	U	50	1	UG/KG	06/28/2013	GAP
Toluene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Cis-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,1,2-Trichloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
2-Hexanone	EPA-8260	U	50	1	UG/KG	06/28/2013	GAP
1,3-Dichloropropane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-15
CLIENT SAMPLE ID	FPP-B01-S (0.5-1.5)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/18/2013 2:41:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Tetrachloroethylene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Dibromochloromethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2-Dibromoethane	EPA-8260	U	5.0	1	UG/KG	06/28/2013	GAP
Chlorobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Ethylbenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
m,p-Xylene	EPA-8260	U	20	1	UG/KG	06/28/2013	GAP
Styrene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
o-Xylene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Bromoform	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Isopropylbenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2,3-Trichloropropane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Bromobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
N-Propyl Benzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
2-Chlorotoluene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,3,5-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
4-Chlorotoluene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
T-Butyl Benzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2,4-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
S-Butyl Benzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
P-Isopropyltoluene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,3 Dichlorobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,4-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
N-Butylbenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	U	50	1	UG/KG	06/28/2013	GAP
1,2,4-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Hexachlorobutadiene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Naphthalene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2,3-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Naphthalene	EPA-8270 SIM	<b>0.052</b>	0.010	1	MG/KG	07/06/2013	LAP
2-Methylnaphthalene	EPA-8270 SIM	<b>0.028</b>	0.010	1	MG/KG	07/06/2013	LAP
1-Methylnaphthalene	EPA-8270 SIM	<b>0.019</b>	0.010	1	MG/KG	07/06/2013	LAP
Acenaphthylene	EPA-8270 SIM	<b>0.019</b>	0.010	1	MG/KG	07/06/2013	LAP
Acenaphthene	EPA-8270 SIM	U	0.010	1	MG/KG	07/06/2013	LAP
Fluorene	EPA-8270 SIM	U	0.010	1	MG/KG	07/06/2013	LAP
Phenanthrene	EPA-8270 SIM	<b>0.051</b>	0.010	1	MG/KG	07/06/2013	LAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-15
CLIENT SAMPLE ID	FPP-B01-S (0.5-1.5)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/18/2013 2:41:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Anthracene	EPA-8270 SIM	U	0.010	1	MG/KG	07/06/2013	LAP
Fluoranthene	EPA-8270 SIM	0.049	0.010	1	MG/KG	07/06/2013	LAP
Pyrene	EPA-8270 SIM	0.053	0.010	1	MG/KG	07/06/2013	LAP
Benzo[A]Anthracene	EPA-8270 SIM	0.013	0.010	1	MG/KG	07/06/2013	LAP
Chrysene	EPA-8270 SIM	0.021	0.010	1	MG/KG	07/06/2013	LAP
Benzo[B]Fluoranthene	EPA-8270 SIM	0.019	0.010	1	MG/KG	07/06/2013	LAP
Benzo[K]Fluoranthene	EPA-8270 SIM	0.011	0.010	1	MG/KG	07/06/2013	LAP
Benzo[A]Pyrene	EPA-8270 SIM	0.014	0.010	1	MG/KG	07/06/2013	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	0.012	0.010	1	MG/KG	07/06/2013	LAP
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	0.010	1	MG/KG	07/06/2013	LAP
Benzo[G,H,I]Perylene	EPA-8270 SIM	0.019	0.010	1	MG/KG	07/06/2013	LAP
Pyridine	EPA-8270	U	200	1	UG/KG	07/06/2013	LAP
N-Nitrosodimethylamine	EPA-8270	U	100	1	UG/KG	07/06/2013	LAP
Phenol	EPA-8270	U	100	1	UG/KG	07/06/2013	LAP
Aniline	EPA-8270	U	100	1	UG/KG	07/06/2013	LAP
Bis(2-Chloroethyl)Ether	EPA-8270	U	100	1	UG/KG	07/06/2013	LAP
2-Chlorophenol	EPA-8270	U	100	1	UG/KG	07/06/2013	LAP
1,3-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	07/06/2013	LAP
1,4-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	07/06/2013	LAP
Benzyl Alcohol	EPA-8270	U	100	1	UG/KG	07/06/2013	LAP
1,2-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	07/06/2013	LAP
2-Methylphenol	EPA-8270	U	100	1	UG/KG	07/06/2013	LAP
Bis(2-Chloroisopropyl)Ether	EPA-8270	U	100	1	UG/KG	07/06/2013	LAP
3&4-Methylphenol	EPA-8270	U	100	1	UG/KG	07/06/2013	LAP
N-Nitroso-Di-N-Propylamine	EPA-8270	U	100	1	UG/KG	07/06/2013	LAP
Hexachloroethane	EPA-8270	U	100	1	UG/KG	07/06/2013	LAP
Nitrobenzene	EPA-8270	U	100	1	UG/KG	07/06/2013	LAP
Isophorone	EPA-8270	U	100	1	UG/KG	07/06/2013	LAP
2-Nitrophenol	EPA-8270	U	250	1	UG/KG	07/06/2013	LAP
2,4-Dimethylphenol	EPA-8270	U	100	1	UG/KG	07/06/2013	LAP
Benzoic Acid	EPA-8270	U	1000	1	UG/KG	07/06/2013	LAP
Bis(2-Chloroethoxy)Methane	EPA-8270	U	100	1	UG/KG	07/06/2013	LAP
2,4-Dichlorophenol	EPA-8270	U	100	1	UG/KG	07/06/2013	LAP
1,2,4-Trichlorobenzene	EPA-8270	U	100	1	UG/KG	07/06/2013	LAP
4-Chloroaniline	EPA-8270	U	100	1	UG/KG	07/06/2013	LAP
2,6-Dichlorophenol	EPA-8270	U	100	1	UG/KG	07/06/2013	LAP
Hexachlorobutadiene	EPA-8270	U	100	1	UG/KG	07/06/2013	LAP
4-Chloro-3-Methylphenol	EPA-8270	U	100	1	UG/KG	07/06/2013	LAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-15
CLIENT SAMPLE ID	FPP-B01-S (0.5-1.5)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/18/2013 2:41:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Hexachlorocyclopentadiene	EPA-8270	U	500	1	UG/KG	07/06/2013	LAP
2,4,6-Trichlorophenol	EPA-8270	U	100	1	UG/KG	07/06/2013	LAP
2,4,5-Trichlorophenol	EPA-8270	U	100	1	UG/KG	07/06/2013	LAP
2-Chloronaphthalene	EPA-8270	U	100	1	UG/KG	07/06/2013	LAP
2-Nitroaniline	EPA-8270	U	250	1	UG/KG	07/06/2013	LAP
Dimethylphthalate	EPA-8270	U	100	1	UG/KG	07/06/2013	LAP
2,6-Dinitrotoluene	EPA-8270	U	250	1	UG/KG	07/06/2013	LAP
3-Nitroaniline	EPA-8270	U	250	1	UG/KG	07/06/2013	LAP
2,4-Dinitrophenol	EPA-8270	U	250	1	UG/KG	07/06/2013	LAP
4-Nitrophenol	EPA-8270	U	500	1	UG/KG	07/06/2013	LAP
Dibenzofuran	EPA-8270	U	100	1	UG/KG	07/06/2013	LAP
2,4-Dinitrotoluene	EPA-8270	U	250	1	UG/KG	07/06/2013	LAP
2,3,4,6-Tetrachlorophenol	EPA-8270	U	250	1	UG/KG	07/06/2013	LAP
Diethylphthalate	EPA-8270	U	100	1	UG/KG	07/06/2013	LAP
4-Chlorophenyl-Phenylether	EPA-8270	U	100	1	UG/KG	07/06/2013	LAP
4-Nitroaniline	EPA-8270	U	250	1	UG/KG	07/06/2013	LAP
4,6-Dinitro-2-Methylphenol	EPA-8270	U	100	1	UG/KG	07/06/2013	LAP
N-Nitrosodiphenylamine	EPA-8270	U	100	1	UG/KG	07/06/2013	LAP
Azobenzene	EPA-8270	U	100	1	UG/KG	07/06/2013	LAP
4-Bromophenyl-Phenylether	EPA-8270	U	100	1	UG/KG	07/06/2013	LAP
Hexachlorobenzene	EPA-8270	U	100	1	UG/KG	07/06/2013	LAP
Pentachlorophenol	EPA-8270	U	500	1	UG/KG	07/06/2013	LAP
Carbazole	EPA-8270	U	100	1	UG/KG	07/06/2013	LAP
Di-N-Butylphthalate	EPA-8270	U	130	1	UG/KG	07/06/2013	LAP
Butylbenzylphthalate	EPA-8270	U	100	1	UG/KG	07/06/2013	LAP
3,3-Dichlorobenzidine	EPA-8270	U	250	1	UG/KG	07/06/2013	LAP
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	130	1	UG/KG	07/06/2013	LAP
Di-N-Octylphthalate	EPA-8270	U	100	1	UG/KG	07/06/2013	LAP
PCB-1016	EPA-8082	U	0.10	1	MG/KG	06/28/2013	LAP
PCB-1268	EPA-8082	U	0.10	1	MG/KG	06/28/2013	LAP
PCB-1221	EPA-8082	U	0.10	1	MG/KG	06/28/2013	LAP
PCB-1232	EPA-8082	U	0.10	1	MG/KG	06/28/2013	LAP
PCB-1242	EPA-8082	U	0.10	1	MG/KG	06/28/2013	LAP
PCB-1248	EPA-8082	U	0.10	1	MG/KG	06/28/2013	LAP
PCB-1254	EPA-8082	U	0.10	1	MG/KG	06/28/2013	LAP
PCB-1260	EPA-8082	U	0.10	1	MG/KG	06/28/2013	LAP
Mercury	EPA-7471	0.040	0.020	1	MG/KG	07/01/2013	RAL
Arsenic	EPA-6020	2.5	1.0	5	MG/KG	07/02/2013	RAL



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-15
CLIENT SAMPLE ID	FPP-B01-S (0.5-1.5)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/18/2013 2:41:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Cadmium	EPA-6020	U	0.50	5	MG/KG	07/02/2013	RAL
Chromium	EPA-6020	15	0.50	5	MG/KG	07/02/2013	RAL
Iron	EPA-6020	23000	50	5	MG/KG	07/02/2013	RAL
Lead	EPA-6020	14	0.50	5	MG/KG	07/02/2013	RAL
Manganese	EPA-6020	360	0.50	5	MG/KG	07/02/2013	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	65.7	06/24/2013	GAP
C25	NWTPH-DX w/ SGA	107	06/26/2013	LAP
1,2-Dichloroethane-d4	EPA-8260	115	06/28/2013	GAP
Toluene-d8	EPA-8260	96.0	06/28/2013	GAP
4-Bromofluorobenzene	EPA-8260	102	06/28/2013	GAP
Terphenyl-d14	EPA-8270 SIM	99.3	07/06/2013	LAP
2-Fluorophenol	EPA-8270	113	07/06/2013	LAP
Phenol-d5	EPA-8270	87.2	07/06/2013	LAP
Nitrobenzene-d5	EPA-8270	86.5	07/06/2013	LAP
2-Fluorobiphenyl	EPA-8270	85.2	07/06/2013	LAP
2,4,6-Tribromophenol	EPA-8270	104	07/06/2013	LAP
Terphenyl-d14	EPA-8270	99.3	07/06/2013	LAP
TCMX	EPA-8082	73.0	06/28/2013	LAP
DCB	EPA-8082	77.0	06/28/2013	LAP

U - Analyte analyzed for but not detected at level above reporting limit.  
Chromatogram indicates that it is likely that sample contains light oil/lube oil.



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-16
CLIENT SAMPLE ID	FPP-B01-S (12-13)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/18/2013 2:52:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	06/25/2013	GAP
TPH-Diesel Range	NWTPH-DX w/ SGA	U	25	1	MG/KG	06/26/2013	LAP
TPH-Oil Range	NWTPH-DX w/ SGA	U	50	1	MG/KG	06/26/2013	LAP
Mercury	EPA-7471	<b>0.033</b>	0.020	1	MG/KG	07/01/2013	RAL
Arsenic	EPA-6020	<b>2.0</b>	1.0	5	MG/KG	07/02/2013	RAL
Cadmium	EPA-6020	U	0.50	5	MG/KG	07/02/2013	RAL
Chromium	EPA-6020	<b>10</b>	0.50	5	MG/KG	07/02/2013	RAL
Iron	EPA-6020	<b>20000</b>	50	5	MG/KG	07/02/2013	RAL
Lead	EPA-6020	<b>2.7</b>	0.50	5	MG/KG	07/02/2013	RAL
Manganese	EPA-6020	<b>370</b>	0.50	5	MG/KG	07/02/2013	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	<b>96.9</b>	06/25/2013	GAP
C25	NWTPH-DX w/ SGA	<b>91.2</b>	06/26/2013	LAP

U - Analyte analyzed for but not detected at level above reporting limit.





**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/15/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13060128
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-17
<b>CLIENT SAMPLE ID</b>	FPP-B03-S (0.5-2)	<b>DATE RECEIVED:</b>	6/24/2013
		<b>COLLECTION DATE:</b>	6/18/2013 5:40:00 PM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	U	25	1	MG/KG	06/26/2013	LAP
TPH-Oil Range	NWTPH-DX w/ SGA	U	50	1	MG/KG	06/26/2013	LAP
Dichlorodifluoromethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Chloromethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Vinyl Chloride	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Bromomethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Chloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Carbon Tetrachloride	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Trichlorofluoromethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Carbon Disulfide	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Acetone	EPA-8260	U	50	1	UG/KG	06/28/2013	GAP
1,1-Dichloroethene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Methylene Chloride	EPA-8260	U	20	1	UG/KG	06/28/2013	GAP
Acrylonitrile	EPA-8260	U	50	1	UG/KG	06/28/2013	GAP
Methyl T-Butyl Ether	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Trans-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,1-Dichloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
2-Butanone	EPA-8260	U	50	1	UG/KG	06/28/2013	GAP
Cis-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
2,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Bromochloromethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Chloroform	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,1,1-Trichloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,1-Dichloropropene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2-Dichloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Benzene	EPA-8260	U	5.0	1	UG/KG	06/28/2013	GAP
Trichloroethene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Dibromomethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Bromodichloromethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Trans-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
4-Methyl-2-Pentanone	EPA-8260	U	50	1	UG/KG	06/28/2013	GAP
Toluene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Cis-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,1,2-Trichloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
2-Hexanone	EPA-8260	U	50	1	UG/KG	06/28/2013	GAP
1,3-Dichloropropane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Tetrachloroethylene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/15/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13060128
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-17
<b>CLIENT SAMPLE ID</b>	FPP-B03-S (0.5-2)	<b>DATE RECEIVED:</b>	6/24/2013
		<b>COLLECTION DATE:</b>	6/18/2013 5:40:00 PM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Dibromochloromethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2-Dibromoethane	EPA-8260	U	5.0	1	UG/KG	06/28/2013	GAP
Chlorobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Ethylbenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
m,p-Xylene	EPA-8260	U	20	1	UG/KG	06/28/2013	GAP
Styrene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
o-Xylene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Bromoform	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Isopropylbenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,1,2,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2,3-Trichloropropane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Bromobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
N-Propyl Benzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
2-Chlorotoluene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,3,5-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
4-Chlorotoluene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
T-Butyl Benzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2,4-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
S-Butyl Benzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
P-Isopropyltoluene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,3 Dichlorobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,4-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
N-Butylbenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	U	50	1	UG/KG	06/28/2013	GAP
1,2,4-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Hexachlorobutadiene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Naphthalene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2,3-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Naphthalene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
2-Methylnaphthalene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
1-Methylnaphthalene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Acenaphthylene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Acenaphthene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Fluorene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Phenanthrene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Anthracene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-17
CLIENT SAMPLE ID	FPP-B03-S (0.5-2)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/18/2013 5:40:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Fluoranthene	EPA-8270 SIM	0.010	0.010	1	MG/KG	07/03/2013	LAP
Pyrene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Benzo[A]Anthracene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Chrysene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Benzo[B]Fluoranthene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Benzo[K]Fluoranthene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Benzo[A]Pyrene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Benzo[G,H,I]Perylene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Pyridine	EPA-8270	U	200	1	UG/KG	07/03/2013	LAP
N-Nitrosodimethylamine	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Phenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Aniline	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Bis(2-Chloroethyl)Ether	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2-Chlorophenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
1,3-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
1,4-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Benzyl Alcohol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
1,2-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2-Methylphenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Bis(2-Chloroisopropyl)Ether	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
3&4-Methylphenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
N-Nitroso-Di-N-Propylamine	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Hexachloroethane	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Nitrobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Isophorone	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2-Nitrophenol	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
2,4-Dimethylphenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Benzoic Acid	EPA-8270	U	1000	1	UG/KG	07/03/2013	LAP
Bis(2-Chloroethoxy)Methane	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2,4-Dichlorophenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
1,2,4-Trichlorobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
4-Chloroaniline	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2,6-Dichlorophenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Hexachlorobutadiene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
4-Chloro-3-Methylphenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Hexachlorocyclopentadiene	EPA-8270	U	500	1	UG/KG	07/03/2013	LAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-17
CLIENT SAMPLE ID	FPP-B03-S (0.5-2)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/18/2013 5:40:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
2,4,6-Trichlorophenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2,4,5-Trichlorophenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2-Chloronaphthalene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2-Nitroaniline	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
Dimethylphthalate	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2,6-Dinitrotoluene	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
3-Nitroaniline	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
2,4-Dinitrophenol	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
4-Nitrophenol	EPA-8270	U	500	1	UG/KG	07/03/2013	LAP
Dibenzofuran	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2,4-Dinitrotoluene	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
2,3,4,6-Tetrachlorophenol	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
Diethylphthalate	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
4-Chlorophenyl-Phenylether	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
4-Nitroaniline	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
4,6-Dinitro-2-Methylphenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
N-Nitrosodiphenylamine	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Azobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
4-Bromophenyl-Phenylether	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Hexachlorobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Pentachlorophenol	EPA-8270	U	500	1	UG/KG	07/03/2013	LAP
Carbazole	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Di-N-Butylphthalate	EPA-8270	U	130	1	UG/KG	07/03/2013	LAP
Butylbenzylphthalate	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
3,3-Dichlorobenzidine	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	130	1	UG/KG	07/03/2013	LAP
Di-N-Octylphthalate	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
PCB-1016	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
PCB-1268	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
PCB-1221	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
PCB-1232	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
PCB-1242	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
PCB-1248	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
PCB-1254	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
PCB-1260	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
Mercury	EPA-7471	<b>0.036</b>	0.020	1	MG/KG	07/01/2013	RAL
Arsenic	EPA-6020	<b>2.5</b>	1.0	5	MG/KG	07/02/2013	RAL
Cadmium	EPA-6020	U	0.50	5	MG/KG	07/02/2013	RAL



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-17
CLIENT SAMPLE ID	FPP-B03-S (0.5-2)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/18/2013 5:40:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Chromium	EPA-6020	18	0.50	5	MG/KG	07/02/2013	RAL
Iron	EPA-6020	24000	50	5	MG/KG	07/02/2013	RAL
Lead	EPA-6020	8.5	0.50	5	MG/KG	07/02/2013	RAL
Manganese	EPA-6020	350	0.50	5	MG/KG	07/02/2013	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX w/ SGA	113	06/26/2013	LAP
1,2-Dichloroethane-d4	EPA-8260	115	06/28/2013	GAP
Toluene-d8	EPA-8260	90.5	06/28/2013	GAP
4-Bromofluorobenzene	EPA-8260	113	06/28/2013	GAP
Terphenyl-d14	EPA-8270 SIM	93.1	07/03/2013	LAP
2-Fluorophenol	EPA-8270	106	07/03/2013	LAP
Phenol-d5	EPA-8270	85.2	07/03/2013	LAP
Nitrobenzene-d5	EPA-8270	84.4	07/03/2013	LAP
2-Fluorobiphenyl	EPA-8270	80.3	07/03/2013	LAP
2,4,6-Tribromophenol	EPA-8270	95.4	07/03/2013	LAP
Terphenyl-d14	EPA-8270	93.1	07/03/2013	LAP
TCMX	EPA-8082	90.0	06/27/2013	LAP
DCB	EPA-8082	68.0	06/27/2013	LAP

U - Analyte analyzed for but not detected at level above reporting limit.



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-18
CLIENT SAMPLE ID	FPP-B03-S (13-14)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/18/2013 4:02:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	U	25	1	MG/KG	06/26/2013	LAP
TPH-Oil Range	NWTPH-DX w/ SGA	U	50	1	MG/KG	06/26/2013	LAP
Mercury	EPA-7471	0.024	0.020	1	MG/KG	07/01/2013	RAL
Arsenic	EPA-6020	2.3	1.0	5	MG/KG	07/02/2013	RAL
Cadmium	EPA-6020	U	0.50	5	MG/KG	07/02/2013	RAL
Chromium	EPA-6020	14	0.50	5	MG/KG	07/02/2013	RAL
Iron	EPA-6020	23000	50	5	MG/KG	07/02/2013	RAL
Lead	EPA-6020	2.8	0.50	5	MG/KG	07/02/2013	RAL
Manganese	EPA-6020	350	0.50	5	MG/KG	07/02/2013	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX w/ SGA	99.3	06/26/2013	LAP

U - Analyte analyzed for but not detected at level above reporting limit.



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-19
CLIENT SAMPLE ID	FPP-B02-S (1-2)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/19/2013 8:30:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	6.2	3.0	1	MG/KG	06/25/2013	GAP
TPH-Diesel Range	NWTPH-DX w/ SGA	U	25	1	MG/KG	06/26/2013	LAP
TPH-Oil Range	NWTPH-DX w/ SGA	190	50	1	MG/KG	06/26/2013	LAP
Dichlorodifluoromethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Chloromethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Vinyl Chloride	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Bromomethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Chloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Carbon Tetrachloride	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Trichlorofluoromethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Carbon Disulfide	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Acetone	EPA-8260	U	50	1	UG/KG	06/28/2013	GAP
1,1-Dichloroethene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Methylene Chloride	EPA-8260	U	20	1	UG/KG	06/28/2013	GAP
Acrylonitrile	EPA-8260	U	50	1	UG/KG	06/28/2013	GAP
Methyl T-Butyl Ether	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Trans-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,1-Dichloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
2-Butanone	EPA-8260	U	50	1	UG/KG	06/28/2013	GAP
Cis-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
2,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Bromochloromethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Chloroform	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,1,1-Trichloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,1-Dichloropropene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2-Dichloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Benzene	EPA-8260	U	5.0	1	UG/KG	06/28/2013	GAP
Trichloroethene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Dibromomethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Bromodichloromethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Trans-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
4-Methyl-2-Pentanone	EPA-8260	U	50	1	UG/KG	06/28/2013	GAP
Toluene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Cis-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,1,2-Trichloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
2-Hexanone	EPA-8260	U	50	1	UG/KG	06/28/2013	GAP
1,3-Dichloropropane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-19
CLIENT SAMPLE ID	FPP-B02-S (1-2)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/19/2013 8:30:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Tetrachloroethylene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Dibromochloromethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2-Dibromoethane	EPA-8260	U	5.0	1	UG/KG	06/28/2013	GAP
Chlorobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Ethylbenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
m,p-Xylene	EPA-8260	U	20	1	UG/KG	06/28/2013	GAP
Styrene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
o-Xylene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Bromoform	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Isopropylbenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2,3-Trichloropropane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Bromobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
N-Propyl Benzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
2-Chlorotoluene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,3,5-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
4-Chlorotoluene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
T-Butyl Benzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2,4-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
S-Butyl Benzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
P-Isopropyltoluene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,3 Dichlorobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,4-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
N-Butylbenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	U	50	1	UG/KG	06/28/2013	GAP
1,2,4-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Hexachlorobutadiene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Naphthalene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2,3-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Naphthalene	EPA-8270 SIM	<b>0.067</b>	0.010	1	MG/KG	07/03/2013	LAP
2-Methylnaphthalene	EPA-8270 SIM	<b>0.025</b>	0.010	1	MG/KG	07/03/2013	LAP
1-Methylnaphthalene	EPA-8270 SIM	<b>0.016</b>	0.010	1	MG/KG	07/03/2013	LAP
Acenaphthylene	EPA-8270 SIM	<b>0.031</b>	0.010	1	MG/KG	07/03/2013	LAP
Acenaphthene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Fluorene	EPA-8270 SIM	<b>0.012</b>	0.010	1	MG/KG	07/03/2013	LAP
Phenanthrene	EPA-8270 SIM	<b>0.089</b>	0.010	1	MG/KG	07/03/2013	LAP





**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-19
CLIENT SAMPLE ID	FPP-B02-S (1-2)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/19/2013 8:30:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Anthracene	EPA-8270 SIM	0.018	0.010	1	MG/KG	07/03/2013	LAP
Fluoranthene	EPA-8270 SIM	0.092	0.010	1	MG/KG	07/03/2013	LAP
Pyrene	EPA-8270 SIM	0.11	0.010	1	MG/KG	07/03/2013	LAP
Benzo[A]Anthracene	EPA-8270 SIM	0.028	0.010	1	MG/KG	07/03/2013	LAP
Chrysene	EPA-8270 SIM	0.033	0.010	1	MG/KG	07/03/2013	LAP
Benzo[B]Fluoranthene	EPA-8270 SIM	0.029	0.010	1	MG/KG	07/03/2013	LAP
Benzo[K]Fluoranthene	EPA-8270 SIM	0.019	0.010	1	MG/KG	07/03/2013	LAP
Benzo[A]Pyrene	EPA-8270 SIM	0.030	0.010	1	MG/KG	07/03/2013	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	0.018	0.010	1	MG/KG	07/03/2013	LAP
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Benzo[G,H,I]Perylene	EPA-8270 SIM	0.029	0.010	1	MG/KG	07/03/2013	LAP
Pyridine	EPA-8270	U	200	1	UG/KG	07/03/2013	LAP
N-Nitrosodimethylamine	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Phenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Aniline	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Bis(2-Chloroethyl)Ether	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2-Chlorophenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
1,3-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
1,4-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Benzyl Alcohol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
1,2-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2-Methylphenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Bis(2-Chloroisopropyl)Ether	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
3&4-Methylphenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
N-Nitroso-Di-N-Propylamine	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Hexachloroethane	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Nitrobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Isophorone	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2-Nitrophenol	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
2,4-Dimethylphenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Benzoic Acid	EPA-8270	U	1000	1	UG/KG	07/03/2013	LAP
Bis(2-Chloroethoxy)Methane	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2,4-Dichlorophenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
1,2,4-Trichlorobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
4-Chloroaniline	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2,6-Dichlorophenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Hexachlorobutadiene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
4-Chloro-3-Methylphenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-19
CLIENT SAMPLE ID	FPP-B02-S (1-2)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/19/2013 8:30:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Hexachlorocyclopentadiene	EPA-8270	U	500	1	UG/KG	07/03/2013	LAP
2,4,6-Trichlorophenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2,4,5-Trichlorophenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2-Chloronaphthalene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2-Nitroaniline	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
Dimethylphthalate	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2,6-Dinitrotoluene	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
3-Nitroaniline	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
2,4-Dinitrophenol	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
4-Nitrophenol	EPA-8270	U	500	1	UG/KG	07/03/2013	LAP
Dibenzofuran	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2,4-Dinitrotoluene	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
2,3,4,6-Tetrachlorophenol	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
Diethylphthalate	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
4-Chlorophenyl-Phenylether	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
4-Nitroaniline	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
4,6-Dinitro-2-Methylphenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
N-Nitrosodiphenylamine	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Azobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
4-Bromophenyl-Phenylether	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Hexachlorobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Pentachlorophenol	EPA-8270	U	500	1	UG/KG	07/03/2013	LAP
Carbazole	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Di-N-Butylphthalate	EPA-8270	U	130	1	UG/KG	07/03/2013	LAP
Butylbenzylphthalate	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
3,3-Dichlorobenzidine	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	130	1	UG/KG	07/03/2013	LAP
Di-N-Octylphthalate	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Mercury	EPA-7471	<b>0.040</b>	0.020	1	MG/KG	07/01/2013	RAL
Arsenic	EPA-6020	<b>2.2</b>	1.0	5	MG/KG	07/02/2013	RAL
Cadmium	EPA-6020	U	0.50	5	MG/KG	07/02/2013	RAL
Chromium	EPA-6020	<b>13</b>	0.50	5	MG/KG	07/02/2013	RAL
Iron	EPA-6020	<b>21000</b>	50	5	MG/KG	07/02/2013	RAL
Lead	EPA-6020	<b>15</b>	0.50	5	MG/KG	07/02/2013	RAL
Manganese	EPA-6020	<b>350</b>	0.50	5	MG/KG	07/02/2013	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
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**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/15/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13060128
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-19
<b>CLIENT SAMPLE ID</b>	FPP-B02-S (1-2)	<b>DATE RECEIVED:</b>	6/24/2013
		<b>COLLECTION DATE:</b>	6/19/2013 8:30:00 AM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

<b>SURROGATE</b>	<b>METHOD</b>	<b>%REC</b>	<b>ANALYSIS DATE</b>	<b>ANALYSIS BY</b>
TFT	NWTPH-GX	<b>70.4</b>	06/25/2013	GAP
C25	NWTPH-DX w/ SGA	<b>105</b>	06/26/2013	LAP
1,2-Dichloroethane-d4	EPA-8260	<b>113</b>	06/28/2013	GAP
Toluene-d8	EPA-8260	<b>94.0</b>	06/28/2013	GAP
4-Bromofluorobenzene	EPA-8260	<b>109</b>	06/28/2013	GAP
Terphenyl-d14	EPA-8270 SIM	<b>75.7</b>	07/03/2013	LAP
2-Fluorophenol	EPA-8270	<b>90.1</b>	07/03/2013	LAP
Phenol-d5	EPA-8270	<b>73.6</b>	07/03/2013	LAP
Nitrobenzene-d5	EPA-8270	<b>73.1</b>	07/03/2013	LAP
2-Fluorobiphenyl	EPA-8270	<b>70.6</b>	07/03/2013	LAP
2,4,6-Tribromophenol	EPA-8270	<b>86.4</b>	07/03/2013	LAP
Terphenyl-d14	EPA-8270	<b>75.7</b>	07/03/2013	LAP

U - Analyte analyzed for but not detected at level above reporting limit.  
 Chromatogram indicates that it is likely that sample contains extremely weathered gasoline and light oil/lube oil.



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/15/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13060128
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-20
<b>CLIENT SAMPLE ID</b>	FPP-B02-S (14-15.5)	<b>DATE RECEIVED:</b>	6/24/2013
		<b>COLLECTION DATE:</b>	6/19/2013 8:40:00 AM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	06/25/2013	GAP
TPH-Diesel Range	NWTPH-DX w/ SGA	U	25	1	MG/KG	06/26/2013	LAP
TPH-Oil Range	NWTPH-DX w/ SGA	U	50	1	MG/KG	06/26/2013	LAP
Dichlorodifluoromethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Chloromethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Vinyl Chloride	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Bromomethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Chloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Carbon Tetrachloride	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Trichlorofluoromethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Carbon Disulfide	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Acetone	EPA-8260	U	50	1	UG/KG	06/28/2013	GAP
1,1-Dichloroethene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Methylene Chloride	EPA-8260	U	20	1	UG/KG	06/28/2013	GAP
Acrylonitrile	EPA-8260	U	50	1	UG/KG	06/28/2013	GAP
Methyl T-Butyl Ether	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Trans-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,1-Dichloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
2-Butanone	EPA-8260	U	50	1	UG/KG	06/28/2013	GAP
Cis-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
2,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Bromochloromethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Chloroform	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,1,1-Trichloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,1-Dichloropropene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2-Dichloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Benzene	EPA-8260	U	5.0	1	UG/KG	06/28/2013	GAP
Trichloroethene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Dibromomethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Bromodichloromethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Trans-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
4-Methyl-2-Pentanone	EPA-8260	U	50	1	UG/KG	06/28/2013	GAP
Toluene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Cis-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,1,2-Trichloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
2-Hexanone	EPA-8260	U	50	1	UG/KG	06/28/2013	GAP
1,3-Dichloropropane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/15/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13060128
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-20
<b>CLIENT SAMPLE ID</b>	FPP-B02-S (14-15.5)	<b>DATE RECEIVED:</b>	6/24/2013
		<b>COLLECTION DATE:</b>	6/19/2013 8:40:00 AM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Tetrachloroethylene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Dibromochloromethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2-Dibromoethane	EPA-8260	U	5.0	1	UG/KG	06/28/2013	GAP
Chlorobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Ethylbenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
m,p-Xylene	EPA-8260	U	20	1	UG/KG	06/28/2013	GAP
Styrene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
o-Xylene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Bromoform	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Isopropylbenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2,3-Trichloropropane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Bromobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
N-Propyl Benzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
2-Chlorotoluene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,3,5-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
4-Chlorotoluene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
T-Butyl Benzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2,4-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
S-Butyl Benzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
P-Isopropyltoluene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,3 Dichlorobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,4-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
N-Butylbenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	U	50	1	UG/KG	06/28/2013	GAP
1,2,4-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Hexachlorobutadiene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Naphthalene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2,3-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Naphthalene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
2-Methylnaphthalene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
1-Methylnaphthalene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Acenaphthylene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Acenaphthene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Fluorene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Phenanthrene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/15/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13060128
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-20
<b>CLIENT SAMPLE ID</b>	FPP-B02-S (14-15.5)	<b>DATE RECEIVED:</b>	6/24/2013
		<b>COLLECTION DATE:</b>	6/19/2013 8:40:00 AM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Anthracene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Fluoranthene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Pyrene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Benzo[A]Anthracene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Chrysene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Benzo[B]Fluoranthene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Benzo[K]Fluoranthene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Benzo[A]Pyrene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Benzo[G,H,I]Perylene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Pyridine	EPA-8270	U	200	1	UG/KG	07/03/2013	LAP
N-Nitrosodimethylamine	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Phenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Aniline	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Bis(2-Chloroethyl)Ether	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2-Chlorophenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
1,3-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
1,4-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Benzyl Alcohol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
1,2-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2-Methylphenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Bis(2-Chloroisopropyl)Ether	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
3&4-Methylphenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
N-Nitroso-Di-N-Propylamine	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Hexachloroethane	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Nitrobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Isophorone	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2-Nitrophenol	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
2,4-Dimethylphenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Benzoic Acid	EPA-8270	U	1000	1	UG/KG	07/03/2013	LAP
Bis(2-Chloroethoxy)Methane	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2,4-Dichlorophenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
1,2,4-Trichlorobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
4-Chloroaniline	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2,6-Dichlorophenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Hexachlorobutadiene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
4-Chloro-3-Methylphenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-20
CLIENT SAMPLE ID	FPP-B02-S (14-15.5)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/19/2013 8:40:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Hexachlorocyclopentadiene	EPA-8270	U	500	1	UG/KG	07/03/2013	LAP
2,4,6-Trichlorophenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2,4,5-Trichlorophenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2-Chloronaphthalene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2-Nitroaniline	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
Dimethylphthalate	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2,6-Dinitrotoluene	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
3-Nitroaniline	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
2,4-Dinitrophenol	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
4-Nitrophenol	EPA-8270	U	500	1	UG/KG	07/03/2013	LAP
Dibenzofuran	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2,4-Dinitrotoluene	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
2,3,4,6-Tetrachlorophenol	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
Diethylphthalate	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
4-Chlorophenyl-Phenylether	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
4-Nitroaniline	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
4,6-Dinitro-2-Methylphenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
N-Nitrosodiphenylamine	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Azobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
4-Bromophenyl-Phenylether	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Hexachlorobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Pentachlorophenol	EPA-8270	U	500	1	UG/KG	07/03/2013	LAP
Carbazole	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Di-N-Butylphthalate	EPA-8270	U	130	1	UG/KG	07/03/2013	LAP
Butylbenzylphthalate	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
3,3-Dichlorobenzidine	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	130	1	UG/KG	07/03/2013	LAP
Di-N-Octylphthalate	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
PCB-1016	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
PCB-1268	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
PCB-1221	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
PCB-1232	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
PCB-1242	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
PCB-1248	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
PCB-1254	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
PCB-1260	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
Chromium (VI)	EPA-7196	U	5.0	1	MG/KG	06/28/2013	RAL
Percent Solids	EPA-160.3	<b>92.3</b>	0	1	%	06/26/2013	LAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-20
CLIENT SAMPLE ID	FPP-B02-S (14-15.5)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/19/2013 8:40:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
pH	EPA-9045	8.58	1.00	1	S.U.	06/25/2013	SMR
Mercury	EPA-7471	0.031	0.020	1	MG/KG	07/01/2013	RAL
Arsenic	EPA-6020	2.0	1.0	5	MG/KG	07/02/2013	RAL
Cadmium	EPA-6020	U	0.50	5	MG/KG	07/02/2013	RAL
Chromium	EPA-6020	8.8	0.50	5	MG/KG	07/02/2013	RAL
Iron	EPA-6020	21000	50	5	MG/KG	07/02/2013	RAL
Lead	EPA-6020	3.2	0.50	5	MG/KG	07/02/2013	RAL
Manganese	EPA-6020	360	0.50	5	MG/KG	07/02/2013	RAL
Total Organic Carbon (TOC)	EPA-9060	U	0.10	1	%	07/01/2013	CAS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	78.4	06/25/2013	GAP
C25	NWTPH-DX w/ SGA	107	06/26/2013	LAP
1,2-Dichloroethane-d4	EPA-8260	121	06/28/2013	GAP
Toluene-d8	EPA-8260	93.0	06/28/2013	GAP
4-Bromofluorobenzene	EPA-8260	88.7	06/28/2013	GAP
Terphenyl-d14	EPA-8270 SIM	89.8	07/03/2013	LAP
2-Fluorophenol	EPA-8270	98.5	07/03/2013	LAP
Phenol-d5	EPA-8270	79.9	07/03/2013	LAP
Nitrobenzene-d5	EPA-8270	78.5	07/03/2013	LAP
2-Fluorobiphenyl	EPA-8270	75.4	07/03/2013	LAP
2,4,6-Tribromophenol	EPA-8270	87.8	07/03/2013	LAP
Terphenyl-d14	EPA-8270	89.8	07/03/2013	LAP
TCMX	EPA-8082	88.0	06/27/2013	LAP
DCB	EPA-8082	77.0	06/27/2013	LAP

U - Analyte analyzed for but not detected at level above reporting limit.





**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/15/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13060128
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-21
<b>CLIENT SAMPLE ID</b>	FPP-B09-S (15-16.5)	<b>DATE RECEIVED:</b>	6/24/2013
		<b>COLLECTION DATE:</b>	6/19/2013 9:40:00 AM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	06/25/2013	GAP
TPH-Diesel Range	NWTPH-DX w/ SGA	560	25	1	MG/KG	06/26/2013	LAP
TPH-Oil Range	NWTPH-DX w/ SGA	180	50	1	MG/KG	06/26/2013	LAP
Dichlorodifluoromethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Chloromethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Vinyl Chloride	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Bromomethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Chloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Carbon Tetrachloride	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Trichlorofluoromethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Carbon Disulfide	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Acetone	EPA-8260	U	50	1	UG/KG	06/28/2013	GAP
1,1-Dichloroethene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Methylene Chloride	EPA-8260	U	20	1	UG/KG	06/28/2013	GAP
Acrylonitrile	EPA-8260	U	50	1	UG/KG	06/28/2013	GAP
Methyl T-Butyl Ether	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Trans-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,1-Dichloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
2-Butanone	EPA-8260	U	50	1	UG/KG	06/28/2013	GAP
Cis-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
2,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Bromochloromethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Chloroform	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,1,1-Trichloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,1-Dichloropropene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2-Dichloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Benzene	EPA-8260	U	5.0	1	UG/KG	06/28/2013	GAP
Trichloroethene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Dibromomethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Bromodichloromethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Trans-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
4-Methyl-2-Pentanone	EPA-8260	U	50	1	UG/KG	06/28/2013	GAP
Toluene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Cis-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,1,2-Trichloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
2-Hexanone	EPA-8260	U	50	1	UG/KG	06/28/2013	GAP
1,3-Dichloropropane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-21
CLIENT SAMPLE ID	FPP-B09-S (15-16.5)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/19/2013 9:40:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Tetrachloroethylene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Dibromochloromethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2-Dibromoethane	EPA-8260	U	5.0	1	UG/KG	06/28/2013	GAP
Chlorobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Ethylbenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
m,p-Xylene	EPA-8260	U	20	1	UG/KG	06/28/2013	GAP
Styrene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
o-Xylene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Bromoform	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Isopropylbenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2,3-Trichloropropane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Bromobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
N-Propyl Benzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
2-Chlorotoluene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,3,5-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
4-Chlorotoluene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
T-Butyl Benzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2,4-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
S-Butyl Benzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
P-Isopropyltoluene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,3 Dichlorobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,4-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
N-Butylbenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	U	50	1	UG/KG	06/28/2013	GAP
1,2,4-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Hexachlorobutadiene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Naphthalene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2,3-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Naphthalene	EPA-8270 SIM	<b>0.074</b>	0.010	1	MG/KG	07/03/2013	LAP
2-Methylnaphthalene	EPA-8270 SIM	<b>0.013</b>	0.010	1	MG/KG	07/03/2013	LAP
1-Methylnaphthalene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Acenaphthylene	EPA-8270 SIM	<b>0.029</b>	0.010	1	MG/KG	07/03/2013	LAP
Acenaphthene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Fluorene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Phenanthrene	EPA-8270 SIM	<b>0.040</b>	0.010	1	MG/KG	07/03/2013	LAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-21
CLIENT SAMPLE ID	FPP-B09-S (15-16.5)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/19/2013 9:40:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Anthracene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Fluoranthene	EPA-8270 SIM	0.038	0.010	1	MG/KG	07/03/2013	LAP
Pyrene	EPA-8270 SIM	0.046	0.010	1	MG/KG	07/03/2013	LAP
Benzo[A]Anthracene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Chrysene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Benzo[B]Fluoranthene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Benzo[K]Fluoranthene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Benzo[A]Pyrene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Benzo[G,H,I]Perylene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Pyridine	EPA-8270	U	200	1	UG/KG	07/03/2013	LAP
N-Nitrosodimethylamine	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Phenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Aniline	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Bis(2-Chloroethyl)Ether	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2-Chlorophenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
1,3-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
1,4-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Benzyl Alcohol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
1,2-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2-Methylphenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Bis(2-Chloroisopropyl)Ether	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
3&4-Methylphenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
N-Nitroso-Di-N-Propylamine	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Hexachloroethane	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Nitrobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Isophorone	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2-Nitrophenol	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
2,4-Dimethylphenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Benzoic Acid	EPA-8270	U	1000	1	UG/KG	07/03/2013	LAP
Bis(2-Chloroethoxy)Methane	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2,4-Dichlorophenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
1,2,4-Trichlorobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
4-Chloroaniline	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2,6-Dichlorophenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Hexachlorobutadiene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
4-Chloro-3-Methylphenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-21
CLIENT SAMPLE ID	FPP-B09-S (15-16.5)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/19/2013 9:40:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Hexachlorocyclopentadiene	EPA-8270	U	500	1	UG/KG	07/03/2013	LAP
2,4,6-Trichlorophenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2,4,5-Trichlorophenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2-Chloronaphthalene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2-Nitroaniline	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
Dimethylphthalate	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2,6-Dinitrotoluene	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
3-Nitroaniline	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
2,4-Dinitrophenol	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
4-Nitrophenol	EPA-8270	U	500	1	UG/KG	07/03/2013	LAP
Dibenzofuran	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2,4-Dinitrotoluene	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
2,3,4,6-Tetrachlorophenol	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
Diethylphthalate	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
4-Chlorophenyl-Phenylether	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
4-Nitroaniline	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
4,6-Dinitro-2-Methylphenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
N-Nitrosodiphenylamine	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Azobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
4-Bromophenyl-Phenylether	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Hexachlorobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Pentachlorophenol	EPA-8270	U	500	1	UG/KG	07/03/2013	LAP
Carbazole	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Di-N-Butylphthalate	EPA-8270	U	130	1	UG/KG	07/03/2013	LAP
Butylbenzylphthalate	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
3,3-Dichlorobenzidine	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	130	1	UG/KG	07/03/2013	LAP
Di-N-Octylphthalate	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
PCB-1016	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
PCB-1268	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
PCB-1221	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
PCB-1232	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
PCB-1242	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
PCB-1248	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
PCB-1254	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
PCB-1260	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
Chromium (VI)	EPA-7196	U	5.0	1	MG/KG	06/28/2013	RAL
Percent Solids	EPA-160.3	<b>73.6</b>	0	1	%	06/26/2013	LAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-21
CLIENT SAMPLE ID	FPF-B09-S (15-16.5)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/19/2013 9:40:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
pH	EPA-9045	6.39	1.00	1	S.U.	06/25/2013	SMR
Mercury	EPA-7471	0.025	0.020	1	MG/KG	07/01/2013	RAL
Arsenic	EPA-6020	2.9	1.0	5	MG/KG	07/02/2013	RAL
Cadmium	EPA-6020	U	0.50	5	MG/KG	07/02/2013	RAL
Chromium	EPA-6020	13	0.50	5	MG/KG	07/02/2013	RAL
Iron	EPA-6020	21000	50	5	MG/KG	07/02/2013	RAL
Lead	EPA-6020	7.8	0.50	5	MG/KG	07/02/2013	RAL
Manganese	EPA-6020	260	0.50	5	MG/KG	07/02/2013	RAL
Total Organic Carbon (TOC)	EPA-9060	3.3	0.10	1	%	07/01/2013	CAS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	77.9	06/25/2013	GAP
C25	NWTPH-DX w/ SGA	110	06/26/2013	LAP
1,2-Dichloroethane-d4	EPA-8260	117	06/28/2013	GAP
Toluene-d8	EPA-8260	93.8	06/28/2013	GAP
4-Bromofluorobenzene	EPA-8260	113	06/28/2013	GAP
Terphenyl-d14	EPA-8270 SIM	86.6	07/03/2013	LAP
2-Fluorophenol	EPA-8270	108	07/03/2013	LAP
Phenol-d5	EPA-8270	81.5	07/03/2013	LAP
Nitrobenzene-d5	EPA-8270	82.8	07/03/2013	LAP
2-Fluorobiphenyl	EPA-8270	78.9	07/03/2013	LAP
2,4,6-Tribromophenol	EPA-8270	96.0	07/03/2013	LAP
Terphenyl-d14	EPA-8270	86.6	07/03/2013	LAP
TCMX	EPA-8082	78.0	06/27/2013	LAP
DCB	EPA-8082	67.0	06/27/2013	LAP

U - Analyte analyzed for but not detected at level above reporting limit.  
 Chromatogram indicates that it is likely that sample contains highly weathered diesel and light oil/lube oil.  
 Diesel range product results biased high due to oil range product overlap.



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-22
CLIENT SAMPLE ID	FPP-B09-S (12-13)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/19/2013 9:50:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	U	25	1	MG/KG	06/26/2013	LAP
TPH-Oil Range	NWTPH-DX w/ SGA	U	50	1	MG/KG	06/26/2013	LAP
Mercury	EPA-7471	0.025	0.020	1	MG/KG	07/01/2013	RAL
Arsenic	EPA-6020	2.1	1.0	5	MG/KG	07/02/2013	RAL
Cadmium	EPA-6020	U	0.50	5	MG/KG	07/02/2013	RAL
Chromium	EPA-6020	17	0.50	5	MG/KG	07/02/2013	RAL
Iron	EPA-6020	25000	50	5	MG/KG	07/02/2013	RAL
Lead	EPA-6020	3.5	0.50	5	MG/KG	07/02/2013	RAL
Manganese	EPA-6020	290	0.50	5	MG/KG	07/02/2013	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX w/ SGA	108	06/26/2013	LAP

U - Analyte analyzed for but not detected at level above reporting limit.



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-23
CLIENT SAMPLE ID	FPP-B07-S (0.5-1)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/19/2013 11:25:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	U	120	5	MG/KG	06/27/2013	LAP
TPH-Oil Range	NWTPH-DX w/ SGA	1500	250	5	MG/KG	06/27/2013	LAP
Naphthalene	EPA-8270 SIM	U	0.020	2	MG/KG	07/06/2013	LAP
2-Methylnaphthalene	EPA-8270 SIM	U	0.020	2	MG/KG	07/06/2013	LAP
1-Methylnaphthalene	EPA-8270 SIM	U	0.020	2	MG/KG	07/06/2013	LAP
Acenaphthylene	EPA-8270 SIM	U	0.020	2	MG/KG	07/06/2013	LAP
Acenaphthene	EPA-8270 SIM	U	0.020	2	MG/KG	07/06/2013	LAP
Fluorene	EPA-8270 SIM	U	0.020	2	MG/KG	07/06/2013	LAP
Phenanthrene	EPA-8270 SIM	0.048	0.020	2	MG/KG	07/06/2013	LAP
Anthracene	EPA-8270 SIM	U	0.020	2	MG/KG	07/06/2013	LAP
Fluoranthene	EPA-8270 SIM	0.068	0.020	2	MG/KG	07/06/2013	LAP
Pyrene	EPA-8270 SIM	0.12	0.020	2	MG/KG	07/06/2013	LAP
Benzo[A]Anthracene	EPA-8270 SIM	0.044	0.020	2	MG/KG	07/06/2013	LAP
Chrysene	EPA-8270 SIM	0.098	0.020	2	MG/KG	07/06/2013	LAP
Benzo[B]Fluoranthene	EPA-8270 SIM	0.053	0.020	2	MG/KG	07/06/2013	LAP
Benzo[K]Fluoranthene	EPA-8270 SIM	0.037	0.020	2	MG/KG	07/06/2013	LAP
Benzo[A]Pyrene	EPA-8270 SIM	0.046	0.020	2	MG/KG	07/06/2013	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	0.027	0.020	2	MG/KG	07/06/2013	LAP
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	0.020	2	MG/KG	07/06/2013	LAP
Benzo[G,H,I]Perylene	EPA-8270 SIM	0.037	0.020	2	MG/KG	07/06/2013	LAP
Pyridine	EPA-8270	U	400	2	UG/KG	07/06/2013	LAP
N-Nitrosodimethylamine	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
Phenol	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
Aniline	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
Bis(2-Chloroethyl)Ether	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
2-Chlorophenol	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
1,3-Dichlorobenzene	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
1,4-Dichlorobenzene	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
Benzyl Alcohol	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
1,2-Dichlorobenzene	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
2-Methylphenol	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
Bis(2-Chloroisopropyl)Ether	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
3&4-Methylphenol	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
N-Nitroso-Di-N-Propylamine	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
Hexachloroethane	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
Nitrobenzene	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
Isophorone	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
2-Nitrophenol	EPA-8270	U	500	2	UG/KG	07/06/2013	LAP



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/15/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13060128
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-23
<b>CLIENT SAMPLE ID</b>	FPP-B07-S (0.5-1)	<b>DATE RECEIVED:</b>	6/24/2013
		<b>COLLECTION DATE:</b>	6/19/2013 11:25:00 AM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

<b>ANALYTE</b>	<b>METHOD</b>	<b>RESULTS</b>	<b>REPORTING LIMITS</b>	<b>DILUTION FACTOR</b>	<b>UNITS</b>	<b>ANALYSIS DATE</b>	<b>ANALYSIS BY</b>
2,4-Dimethylphenol	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
Benzoic Acid	EPA-8270	U	2000	2	UG/KG	07/06/2013	LAP
Bis(2-Chloroethoxy)Methane	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
2,4-Dichlorophenol	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
1,2,4-Trichlorobenzene	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
4-Chloroaniline	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
2,6-Dichlorophenol	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
Hexachlorobutadiene	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
4-Chloro-3-Methylphenol	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
Hexachlorocyclopentadiene	EPA-8270	U	1000	2	UG/KG	07/06/2013	LAP
2,4,6-Trichlorophenol	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
2,4,5-Trichlorophenol	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
2-Chloronaphthalene	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
2-Nitroaniline	EPA-8270	U	500	2	UG/KG	07/06/2013	LAP
Dimethylphthalate	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
2,6-Dinitrotoluene	EPA-8270	U	500	2	UG/KG	07/06/2013	LAP
3-Nitroaniline	EPA-8270	U	500	2	UG/KG	07/06/2013	LAP
2,4-Dinitrophenol	EPA-8270	U	500	2	UG/KG	07/06/2013	LAP
4-Nitrophenol	EPA-8270	U	1000	2	UG/KG	07/06/2013	LAP
Dibenzofuran	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
2,4-Dinitrotoluene	EPA-8270	U	500	2	UG/KG	07/06/2013	LAP
2,3,4,6-Tetrachlorophenol	EPA-8270	U	500	2	UG/KG	07/06/2013	LAP
Diethylphthalate	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
4-Chlorophenyl-Phenylether	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
4-Nitroaniline	EPA-8270	U	500	2	UG/KG	07/06/2013	LAP
4,6-Dinitro-2-Methylphenol	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
N-Nitrosodiphenylamine	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
Azobenzene	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
4-Bromophenyl-Phenylether	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
Hexachlorobenzene	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
Pentachlorophenol	EPA-8270	U	1000	2	UG/KG	07/06/2013	LAP
Carbazole	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
Di-N-Butylphthalate	EPA-8270	U	260	2	UG/KG	07/06/2013	LAP
Butylbenzylphthalate	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
3,3-Dichlorobenzidine	EPA-8270	U	500	2	UG/KG	07/06/2013	LAP
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	260	2	UG/KG	07/06/2013	LAP
Di-N-Octylphthalate	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
Mercury	EPA-7471	U	0.020	1	MG/KG	07/01/2013	RAL





**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-23
CLIENT SAMPLE ID	FPP-B07-S (0.5-1)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/19/2013 11:25:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Arsenic	EPA-6020	2.1	1.0	5	MG/KG	07/02/2013	RAL
Cadmium	EPA-6020	U	0.50	5	MG/KG	07/02/2013	RAL
Chromium	EPA-6020	15	0.50	5	MG/KG	07/02/2013	RAL
Iron	EPA-6020	37000	50	5	MG/KG	07/02/2013	RAL
Lead	EPA-6020	4.2	0.50	5	MG/KG	07/02/2013	RAL
Manganese	EPA-6020	470	0.50	5	MG/KG	07/02/2013	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25 5X Dilution	NWTPH-DX w/ SGA	106	06/27/2013	LAP
Terphenyl-d14 2X Dilution	EPA-8270 SIM	55.5	07/06/2013	LAP
2-Fluorophenol 2X Dilution	EPA-8270	53.4	07/06/2013	LAP
Phenol-d5 2X Dilution	EPA-8270	37.5	07/06/2013	LAP
Nitrobenzene-d5 2X Dilution	EPA-8270	42.3	07/06/2013	LAP
2-Fluorobiphenyl 2X Dilution	EPA-8270	42.1 DS1	07/06/2013	LAP
2,4,6-Tribromophenol 2X Dilution	EPA-8270	47.0	07/06/2013	LAP
Terphenyl-d14 2X Dilution	EPA-8270	55.5	07/06/2013	LAP

DS1 - Surrogate outside of control limits due to matrix effect.  
 U - Analyte analyzed for but not detected at level above reporting limit.  
 Chromatogram indicates that it is likely that sample contains light oil/lube oil.



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-24
CLIENT SAMPLE ID	FPP-B07-S (15-16)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/19/2013 11:45:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	06/25/2013	GAP
TPH-Diesel Range	NWTPH-DX w/ SGA	U	25	1	MG/KG	06/26/2013	LAP
TPH-Oil Range	NWTPH-DX w/ SGA	120	50	1	MG/KG	06/26/2013	LAP
Dichlorodifluoromethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Chloromethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Vinyl Chloride	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Bromomethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Chloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Carbon Tetrachloride	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Trichlorofluoromethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Carbon Disulfide	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Acetone	EPA-8260	U	50	1	UG/KG	06/28/2013	GAP
1,1-Dichloroethene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Methylene Chloride	EPA-8260	U	20	1	UG/KG	06/28/2013	GAP
Acrylonitrile	EPA-8260	U	50	1	UG/KG	06/28/2013	GAP
Methyl T-Butyl Ether	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Trans-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,1-Dichloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
2-Butanone	EPA-8260	U	50	1	UG/KG	06/28/2013	GAP
Cis-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
2,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Bromochloromethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Chloroform	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,1,1-Trichloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,1-Dichloropropene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2-Dichloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Benzene	EPA-8260	U	5.0	1	UG/KG	06/28/2013	GAP
Trichloroethene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Dibromomethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Bromodichloromethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Trans-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
4-Methyl-2-Pentanone	EPA-8260	U	50	1	UG/KG	06/28/2013	GAP
Toluene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Cis-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,1,2-Trichloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
2-Hexanone	EPA-8260	U	50	1	UG/KG	06/28/2013	GAP
1,3-Dichloropropane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/15/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13060128
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-24
<b>CLIENT SAMPLE ID</b>	FPP-B07-S (15-16)	<b>DATE RECEIVED:</b>	6/24/2013
		<b>COLLECTION DATE:</b>	6/19/2013 11:45:00 AM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Tetrachloroethylene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Dibromochloromethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2-Dibromoethane	EPA-8260	U	5.0	1	UG/KG	06/28/2013	GAP
Chlorobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Ethylbenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
m,p-Xylene	EPA-8260	U	20	1	UG/KG	06/28/2013	GAP
Styrene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
o-Xylene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Bromoform	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Isopropylbenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2,3-Trichloropropane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Bromobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
N-Propyl Benzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
2-Chlorotoluene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,3,5-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
4-Chlorotoluene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
T-Butyl Benzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2,4-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
S-Butyl Benzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
P-Isopropyltoluene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,3 Dichlorobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,4-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
N-Butylbenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	U	50	1	UG/KG	06/28/2013	GAP
1,2,4-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Hexachlorobutadiene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Naphthalene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2,3-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Naphthalene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
2-Methylnaphthalene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
1-Methylnaphthalene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Acenaphthylene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Acenaphthene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Fluorene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Phenanthrene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/15/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13060128
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-24
<b>CLIENT SAMPLE ID</b>	FPP-B07-S (15-16)	<b>DATE RECEIVED:</b>	6/24/2013
		<b>COLLECTION DATE:</b>	6/19/2013 11:45:00 AM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Anthracene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Fluoranthene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Pyrene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Benzo[A]Anthracene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Chrysene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Benzo[B]Fluoranthene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Benzo[K]Fluoranthene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Benzo[A]Pyrene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Benzo[G,H,I]Perylene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Pyridine	EPA-8270	U	200	1	UG/KG	07/03/2013	LAP
N-Nitrosodimethylamine	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Phenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Aniline	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Bis(2-Chloroethyl)Ether	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2-Chlorophenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
1,3-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
1,4-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Benzyl Alcohol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
1,2-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2-Methylphenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Bis(2-Chloroisopropyl)Ether	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
3&4-Methylphenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
N-Nitroso-Di-N-Propylamine	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Hexachloroethane	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Nitrobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Isophorone	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2-Nitrophenol	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
2,4-Dimethylphenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Benzoic Acid	EPA-8270	U	1000	1	UG/KG	07/03/2013	LAP
Bis(2-Chloroethoxy)Methane	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2,4-Dichlorophenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
1,2,4-Trichlorobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
4-Chloroaniline	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2,6-Dichlorophenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Hexachlorobutadiene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
4-Chloro-3-Methylphenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-24
CLIENT SAMPLE ID	FPP-B07-S (15-16)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/19/2013 11:45:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Hexachlorocyclopentadiene	EPA-8270	U	500	1	UG/KG	07/03/2013	LAP
2,4,6-Trichlorophenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2,4,5-Trichlorophenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2-Chloronaphthalene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2-Nitroaniline	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
Dimethylphthalate	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2,6-Dinitrotoluene	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
3-Nitroaniline	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
2,4-Dinitrophenol	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
4-Nitrophenol	EPA-8270	U	500	1	UG/KG	07/03/2013	LAP
Dibenzofuran	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2,4-Dinitrotoluene	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
2,3,4,6-Tetrachlorophenol	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
Diethylphthalate	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
4-Chlorophenyl-Phenylether	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
4-Nitroaniline	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
4,6-Dinitro-2-Methylphenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
N-Nitrosodiphenylamine	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Azobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
4-Bromophenyl-Phenylether	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Hexachlorobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Pentachlorophenol	EPA-8270	U	500	1	UG/KG	07/03/2013	LAP
Carbazole	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Di-N-Butylphthalate	EPA-8270	U	130	1	UG/KG	07/03/2013	LAP
Butylbenzylphthalate	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
3,3-Dichlorobenzidine	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	130	1	UG/KG	07/03/2013	LAP
Di-N-Octylphthalate	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Percent Solids	EPA-160.3	<b>84.0</b>	0	1	%	06/26/2013	LAP
pH	EPA-9045	<b>7.80</b>	1.00	1	S.U.	06/25/2013	SMR
Mercury	EPA-7471	<b>0.034</b>	0.020	1	MG/KG	07/01/2013	RAL
Arsenic	EPA-6020	<b>2.6</b>	1.0	5	MG/KG	07/02/2013	RAL
Cadmium	EPA-6020	U	0.50	5	MG/KG	07/02/2013	RAL
Chromium	EPA-6020	<b>26</b>	0.50	5	MG/KG	07/02/2013	RAL
Iron	EPA-6020	<b>25000</b>	50	5	MG/KG	07/02/2013	RAL
Lead	EPA-6020	<b>3.7</b>	0.50	5	MG/KG	07/02/2013	RAL
Manganese	EPA-6020	<b>270</b>	0.50	5	MG/KG	07/02/2013	RAL
Total Organic Carbon (TOC)	EPA-9060	<b>0.15</b>	0.10	1	%	07/01/2013	CAS



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/15/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13060128
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-24
<b>CLIENT SAMPLE ID</b>	FPP-B07-S (15-16)	<b>DATE RECEIVED:</b>	6/24/2013
		<b>COLLECTION DATE:</b>	6/19/2013 11:45:00 AM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

<b>SURROGATE</b>	<b>METHOD</b>	<b>%REC</b>	<b>ANALYSIS DATE</b>	<b>ANALYSIS BY</b>
TFT	NWTPH-GX	<b>106</b>	06/25/2013	GAP
C25	NWTPH-DX w/ SGA	<b>99.8</b>	06/26/2013	LAP
1,2-Dichloroethane-d4	EPA-8260	<b>114</b>	06/28/2013	GAP
Toluene-d8	EPA-8260	<b>85.3</b>	06/28/2013	GAP
4-Bromofluorobenzene	EPA-8260	<b>98.3</b>	06/28/2013	GAP
Terphenyl-d14	EPA-8270 SIM	<b>94.6</b>	07/03/2013	LAP
2-Fluorophenol	EPA-8270	<b>100</b>	07/03/2013	LAP
Phenol-d5	EPA-8270	<b>81.2</b>	07/03/2013	LAP
Nitrobenzene-d5	EPA-8270	<b>83.1</b>	07/03/2013	LAP
2-Fluorobiphenyl	EPA-8270	<b>81.4</b>	07/03/2013	LAP
2,4,6-Tribromophenol	EPA-8270	<b>93.1</b>	07/03/2013	LAP
Terphenyl-d14	EPA-8270	<b>94.6</b>	07/03/2013	LAP

U - Analyte analyzed for but not detected at level above reporting limit.  
Chromatogram indicates that it is likely that sample contains light oil/lube oil.



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-25
CLIENT SAMPLE ID	FPP-B05-S (15-16.5)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/19/2013 1:35:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	24	3.0	1	MG/KG	06/25/2013	GAP
TPH-Diesel Range	NWTPH-DX w/ SGA	U	100	4	MG/KG	06/27/2013	LAP
TPH-Oil Range	NWTPH-DX w/ SGA	4500	200	4	MG/KG	06/27/2013	LAP
Dichlorodifluoromethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Chloromethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Vinyl Chloride	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Bromomethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Chloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Carbon Tetrachloride	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Trichlorofluoromethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Carbon Disulfide	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Acetone	EPA-8260	U	50	1	UG/KG	06/28/2013	GAP
1,1-Dichloroethene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Methylene Chloride	EPA-8260	U	20	1	UG/KG	06/28/2013	GAP
Acrylonitrile	EPA-8260	U	50	1	UG/KG	06/28/2013	GAP
Methyl T-Butyl Ether	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Trans-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,1-Dichloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
2-Butanone	EPA-8260	U	50	1	UG/KG	06/28/2013	GAP
Cis-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
2,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Bromochloromethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Chloroform	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,1,1-Trichloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,1-Dichloropropene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2-Dichloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Benzene	EPA-8260	U	5.0	1	UG/KG	06/28/2013	GAP
Trichloroethene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Dibromomethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Bromodichloromethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Trans-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
4-Methyl-2-Pentanone	EPA-8260	U	50	1	UG/KG	06/28/2013	GAP
Toluene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Cis-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,1,2-Trichloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
2-Hexanone	EPA-8260	U	50	1	UG/KG	06/28/2013	GAP
1,3-Dichloropropane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-25
CLIENT SAMPLE ID	FPP-B05-S (15-16.5)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/19/2013 1:35:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Tetrachloroethylene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Dibromochloromethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2-Dibromoethane	EPA-8260	U	5.0	1	UG/KG	06/28/2013	GAP
Chlorobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Ethylbenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
m,p-Xylene	EPA-8260	U	20	1	UG/KG	06/28/2013	GAP
Styrene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
o-Xylene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Bromoform	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Isopropylbenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2,3-Trichloropropane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Bromobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
N-Propyl Benzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
2-Chlorotoluene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,3,5-Trimethylbenzene	EPA-8260	<b>22</b>	10	1	UG/KG	06/28/2013	GAP
4-Chlorotoluene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
T-Butyl Benzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2,4-Trimethylbenzene	EPA-8260	<b>41</b>	10	1	UG/KG	06/28/2013	GAP
S-Butyl Benzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
P-Isopropyltoluene	EPA-8260	<b>11</b>	10	1	UG/KG	06/28/2013	GAP
1,3 Dichlorobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,4-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
N-Butylbenzene	EPA-8260	<b>12</b>	10	1	UG/KG	06/28/2013	GAP
1,2-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	U	50	1	UG/KG	06/28/2013	GAP
1,2,4-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Hexachlorobutadiene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Naphthalene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2,3-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Naphthalene	EPA-8270 SIM	U	0.020	2	MG/KG	07/06/2013	LAP
2-Methylnaphthalene	EPA-8270 SIM	U	0.020	2	MG/KG	07/06/2013	LAP
1-Methylnaphthalene	EPA-8270 SIM	U	0.020	2	MG/KG	07/06/2013	LAP
Acenaphthylene	EPA-8270 SIM	U	0.020	2	MG/KG	07/06/2013	LAP
Acenaphthene	EPA-8270 SIM	U	0.020	2	MG/KG	07/06/2013	LAP
Fluorene	EPA-8270 SIM	U	0.020	2	MG/KG	07/06/2013	LAP
Phenanthrene	EPA-8270 SIM	U	0.020	2	MG/KG	07/06/2013	LAP





**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/15/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13060128
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-25
<b>CLIENT SAMPLE ID</b>	FPP-B05-S (15-16.5)	<b>DATE RECEIVED:</b>	6/24/2013
		<b>COLLECTION DATE:</b>	6/19/2013 1:35:00 PM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Anthracene	EPA-8270 SIM	U	0.020	2	MG/KG	07/06/2013	LAP
Fluoranthene	EPA-8270 SIM	U	0.020	2	MG/KG	07/06/2013	LAP
Pyrene	EPA-8270 SIM	U	0.020	2	MG/KG	07/06/2013	LAP
Benzo[A]Anthracene	EPA-8270 SIM	U	0.020	2	MG/KG	07/06/2013	LAP
Chrysene	EPA-8270 SIM	U	0.020	2	MG/KG	07/06/2013	LAP
Benzo[B]Fluoranthene	EPA-8270 SIM	U	0.020	2	MG/KG	07/06/2013	LAP
Benzo[K]Fluoranthene	EPA-8270 SIM	U	0.020	2	MG/KG	07/06/2013	LAP
Benzo[A]Pyrene	EPA-8270 SIM	U	0.020	2	MG/KG	07/06/2013	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	0.020	2	MG/KG	07/06/2013	LAP
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	0.020	2	MG/KG	07/06/2013	LAP
Benzo[G,H,I]Perylene	EPA-8270 SIM	U	0.020	2	MG/KG	07/06/2013	LAP
Pyridine	EPA-8270	U	400	2	UG/KG	07/06/2013	LAP
N-Nitrosodimethylamine	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
Phenol	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
Aniline	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
Bis(2-Chloroethyl)Ether	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
2-Chlorophenol	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
1,3-Dichlorobenzene	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
1,4-Dichlorobenzene	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
Benzyl Alcohol	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
1,2-Dichlorobenzene	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
2-Methylphenol	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
Bis(2-Chloroisopropyl)Ether	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
3&4-Methylphenol	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
N-Nitroso-Di-N-Propylamine	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
Hexachloroethane	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
Nitrobenzene	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
Isophorone	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
2-Nitrophenol	EPA-8270	U	500	2	UG/KG	07/06/2013	LAP
2,4-Dimethylphenol	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
Benzoic Acid	EPA-8270	U	2000	2	UG/KG	07/06/2013	LAP
Bis(2-Chloroethoxy)Methane	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
2,4-Dichlorophenol	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
1,2,4-Trichlorobenzene	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
4-Chloroaniline	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
2,6-Dichlorophenol	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
Hexachlorobutadiene	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
4-Chloro-3-Methylphenol	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-25
CLIENT SAMPLE ID	FPP-B05-S (15-16.5)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/19/2013 1:35:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Hexachlorocyclopentadiene	EPA-8270	U	1000	2	UG/KG	07/06/2013	LAP
2,4,6-Trichlorophenol	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
2,4,5-Trichlorophenol	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
2-Chloronaphthalene	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
2-Nitroaniline	EPA-8270	U	500	2	UG/KG	07/06/2013	LAP
Dimethylphthalate	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
2,6-Dinitrotoluene	EPA-8270	U	500	2	UG/KG	07/06/2013	LAP
3-Nitroaniline	EPA-8270	U	500	2	UG/KG	07/06/2013	LAP
2,4-Dinitrophenol	EPA-8270	U	500	2	UG/KG	07/06/2013	LAP
4-Nitrophenol	EPA-8270	U	1000	2	UG/KG	07/06/2013	LAP
Dibenzofuran	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
2,4-Dinitrotoluene	EPA-8270	U	500	2	UG/KG	07/06/2013	LAP
2,3,4,6-Tetrachlorophenol	EPA-8270	U	500	2	UG/KG	07/06/2013	LAP
Diethylphthalate	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
4-Chlorophenyl-Phenylether	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
4-Nitroaniline	EPA-8270	U	500	2	UG/KG	07/06/2013	LAP
4,6-Dinitro-2-Methylphenol	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
N-Nitrosodiphenylamine	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
Azobenzene	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
4-Bromophenyl-Phenylether	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
Hexachlorobenzene	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
Pentachlorophenol	EPA-8270	U	1000	2	UG/KG	07/06/2013	LAP
Carbazole	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
Di-N-Butylphthalate	EPA-8270	U	260	2	UG/KG	07/06/2013	LAP
Butylbenzylphthalate	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
3,3-Dichlorobenzidine	EPA-8270	U	500	2	UG/KG	07/06/2013	LAP
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	260	2	UG/KG	07/06/2013	LAP
Di-N-Octylphthalate	EPA-8270	U	200	2	UG/KG	07/06/2013	LAP
PCB-1016	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
PCB-1268	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
PCB-1221	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
PCB-1232	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
PCB-1242	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
PCB-1248	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
PCB-1254	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
PCB-1260	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
Chromium (VI)	EPA-7196	U	5.0	1	MG/KG	06/28/2013	RAL
Percent Solids	EPA-160.3	<b>90.5</b>	0	1	%	06/26/2013	LAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-25
CLIENT SAMPLE ID	FFP-B05-S (15-16.5)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/19/2013 1:35:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
pH	EPA-9045	7.11	1.00	1	S.U.	06/25/2013	SMR
Mercury	EPA-7471	0.028	0.020	1	MG/KG	07/01/2013	RAL
Arsenic	EPA-6020	2.3	1.0	5	MG/KG	07/02/2013	RAL
Cadmium	EPA-6020	U	0.50	5	MG/KG	07/02/2013	RAL
Chromium	EPA-6020	14	0.50	5	MG/KG	07/02/2013	RAL
Iron	EPA-6020	22000	50	5	MG/KG	07/02/2013	RAL
Lead	EPA-6020	4.8	0.50	5	MG/KG	07/02/2013	RAL
Manganese	EPA-6020	300	0.50	5	MG/KG	07/02/2013	RAL
Total Organic Carbon (TOC)	EPA-9060	0.65	0.10	1	%	07/01/2013	CAS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	84.8	06/25/2013	GAP
C25 4X Dilution	NWTPH-DX w/ SGA	141 DS1	06/27/2013	LAP
1,2-Dichloroethane-d4	EPA-8260	119	06/28/2013	GAP
Toluene-d8	EPA-8260	112	06/28/2013	GAP
4-Bromofluorobenzene	EPA-8260	263 GS1	06/28/2013	GAP
Terphenyl-d14 2X Dilution	EPA-8270 SIM	76.6	07/06/2013	LAP
2-Fluorophenol 2X Dilution	EPA-8270	86.1	07/06/2013	LAP
Phenol-d5 2X Dilution	EPA-8270	62.4	07/06/2013	LAP
Nitrobenzene-d5 2X Dilution	EPA-8270	67.9	07/06/2013	LAP
2-Fluorobiphenyl 2X Dilution	EPA-8270	63.6	07/06/2013	LAP
2,4,6-Tribromophenol 2X Dilution	EPA-8270	74.8	07/06/2013	LAP
Terphenyl-d14 2X Dilution	EPA-8270	76.6	07/06/2013	LAP
TCMX	EPA-8082	79.0	06/27/2013	LAP
DCB	EPA-8082	68.0	06/27/2013	LAP

DS1 - Surrogate outside of control limits due to matrix effect.  
 U - Analyte analyzed for but not detected at level above reporting limit.  
 GS1 - Surrogate outside of control limits due to matrix effect.  
 Chromatogram indicates that it is likely that sample contains extremely weathered gasoline and light oil/lube oil.



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/15/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13060128
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-26
<b>CLIENT SAMPLE ID</b>	FPP-B05-S (22.5-24)	<b>DATE RECEIVED:</b>	6/24/2013
		<b>COLLECTION DATE:</b>	6/19/2013 2:00:00 PM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	06/25/2013	GAP
TPH-Diesel Range	NWTPH-DX w/ SGA	U	25	1	MG/KG	06/27/2013	LAP
TPH-Oil Range	NWTPH-DX w/ SGA	<b>500</b>	50	1	MG/KG	06/27/2013	LAP
Dichlorodifluoromethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Chloromethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Vinyl Chloride	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Bromomethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Chloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Carbon Tetrachloride	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Trichlorofluoromethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Carbon Disulfide	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Acetone	EPA-8260	U	50	1	UG/KG	06/28/2013	GAP
1,1-Dichloroethene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Methylene Chloride	EPA-8260	U	20	1	UG/KG	06/28/2013	GAP
Acrylonitrile	EPA-8260	U	50	1	UG/KG	06/28/2013	GAP
Methyl T-Butyl Ether	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Trans-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,1-Dichloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
2-Butanone	EPA-8260	U	50	1	UG/KG	06/28/2013	GAP
Cis-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
2,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Bromochloromethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Chloroform	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,1,1-Trichloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,1-Dichloropropene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2-Dichloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Benzene	EPA-8260	U	5.0	1	UG/KG	06/28/2013	GAP
Trichloroethene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Dibromomethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Bromodichloromethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Trans-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
4-Methyl-2-Pentanone	EPA-8260	U	50	1	UG/KG	06/28/2013	GAP
Toluene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Cis-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,1,2-Trichloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
2-Hexanone	EPA-8260	U	50	1	UG/KG	06/28/2013	GAP
1,3-Dichloropropane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/15/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13060128
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-26
<b>CLIENT SAMPLE ID</b>	FPP-B05-S (22.5-24)	<b>DATE RECEIVED:</b>	6/24/2013
		<b>COLLECTION DATE:</b>	6/19/2013 2:00:00 PM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Tetrachloroethylene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Dibromochloromethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2-Dibromoethane	EPA-8260	U	5.0	1	UG/KG	06/28/2013	GAP
Chlorobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Ethylbenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
m,p-Xylene	EPA-8260	U	20	1	UG/KG	06/28/2013	GAP
Styrene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
o-Xylene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Bromoform	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Isopropylbenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2,3-Trichloropropane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Bromobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
N-Propyl Benzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
2-Chlorotoluene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,3,5-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
4-Chlorotoluene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
T-Butyl Benzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2,4-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
S-Butyl Benzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
P-Isopropyltoluene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,3 Dichlorobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,4-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
N-Butylbenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	U	50	1	UG/KG	06/28/2013	GAP
1,2,4-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Hexachlorobutadiene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Naphthalene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2,3-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Naphthalene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
2-Methylnaphthalene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
1-Methylnaphthalene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Acenaphthylene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Acenaphthene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Fluorene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Phenanthrene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/15/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13060128
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-26
<b>CLIENT SAMPLE ID</b>	FPP-B05-S (22.5-24)	<b>DATE RECEIVED:</b>	6/24/2013
		<b>COLLECTION DATE:</b>	6/19/2013 2:00:00 PM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Anthracene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Fluoranthene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Pyrene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Benzo[A]Anthracene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Chrysene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Benzo[B]Fluoranthene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Benzo[K]Fluoranthene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Benzo[A]Pyrene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Benzo[G,H,I]Perylene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Pyridine	EPA-8270	U	200	1	UG/KG	07/03/2013	LAP
N-Nitrosodimethylamine	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Phenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Aniline	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Bis(2-Chloroethyl)Ether	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2-Chlorophenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
1,3-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
1,4-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Benzyl Alcohol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
1,2-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2-Methylphenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Bis(2-Chloroisopropyl)Ether	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
3&4-Methylphenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
N-Nitroso-Di-N-Propylamine	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Hexachloroethane	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Nitrobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Isophorone	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2-Nitrophenol	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
2,4-Dimethylphenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Benzoic Acid	EPA-8270	U	1000	1	UG/KG	07/03/2013	LAP
Bis(2-Chloroethoxy)Methane	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2,4-Dichlorophenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
1,2,4-Trichlorobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
4-Chloroaniline	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2,6-Dichlorophenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Hexachlorobutadiene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
4-Chloro-3-Methylphenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/15/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13060128
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-26
<b>CLIENT SAMPLE ID</b>	FPP-B05-S (22.5-24)	<b>DATE RECEIVED:</b>	6/24/2013
		<b>COLLECTION DATE:</b>	6/19/2013 2:00:00 PM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Hexachlorocyclopentadiene	EPA-8270	U	500	1	UG/KG	07/03/2013	LAP
2,4,6-Trichlorophenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2,4,5-Trichlorophenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2-Chloronaphthalene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2-Nitroaniline	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
Dimethylphthalate	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2,6-Dinitrotoluene	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
3-Nitroaniline	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
2,4-Dinitrophenol	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
4-Nitrophenol	EPA-8270	U	500	1	UG/KG	07/03/2013	LAP
Dibenzofuran	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2,4-Dinitrotoluene	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
2,3,4,6-Tetrachlorophenol	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
Diethylphthalate	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
4-Chlorophenyl-Phenylether	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
4-Nitroaniline	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
4,6-Dinitro-2-Methylphenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
N-Nitrosodiphenylamine	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Azobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
4-Bromophenyl-Phenylether	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Hexachlorobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Pentachlorophenol	EPA-8270	U	500	1	UG/KG	07/03/2013	LAP
Carbazole	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Di-N-Butylphthalate	EPA-8270	U	130	1	UG/KG	07/03/2013	LAP
Butylbenzylphthalate	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
3,3-Dichlorobenzidine	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	130	1	UG/KG	07/03/2013	LAP
Di-N-Octylphthalate	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
PCB-1016	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
PCB-1268	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
PCB-1221	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
PCB-1232	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
PCB-1242	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
PCB-1248	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
PCB-1254	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
PCB-1260	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
Mercury	EPA-7471	U	0.020	1	MG/KG	07/01/2013	RAL
Arsenic	EPA-6020	1.4	1.0	5	MG/KG	07/02/2013	RAL



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/15/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13060128
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-26
<b>CLIENT SAMPLE ID</b>	FPP-B05-S (22.5-24)	<b>DATE RECEIVED:</b>	6/24/2013
		<b>COLLECTION DATE:</b>	6/19/2013 2:00:00 PM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Cadmium	EPA-6020	U	0.50	5	MG/KG	07/02/2013	RAL
Chromium	EPA-6020	16	0.50	5	MG/KG	07/02/2013	RAL
Iron	EPA-6020	22000	50	5	MG/KG	07/02/2013	RAL
Lead	EPA-6020	2.4	0.50	5	MG/KG	07/02/2013	RAL
Manganese	EPA-6020	250	0.50	5	MG/KG	07/02/2013	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	97.0	06/25/2013	GAP
C25	NWTPH-DX w/ SGA	105	06/27/2013	LAP
1,2-Dichloroethane-d4	EPA-8260	112	06/28/2013	GAP
Toluene-d8	EPA-8260	88.2	06/28/2013	GAP
4-Bromofluorobenzene	EPA-8260	103	06/28/2013	GAP
Terphenyl-d14	EPA-8270 SIM	94.1	07/03/2013	LAP
2-Fluorophenol	EPA-8270	99.7	07/03/2013	LAP
Phenol-d5	EPA-8270	82.0	07/03/2013	LAP
Nitrobenzene-d5	EPA-8270	83.1	07/03/2013	LAP
2-Fluorobiphenyl	EPA-8270	80.2	07/03/2013	LAP
2,4,6-Tribromophenol	EPA-8270	83.0	07/03/2013	LAP
Terphenyl-d14	EPA-8270	94.1	07/03/2013	LAP
TCMX	EPA-8082	79.0	06/27/2013	LAP
DCB	EPA-8082	63.0	06/27/2013	LAP

U - Analyte analyzed for but not detected at level above reporting limit.  
Chromatogram indicates that it is likely that sample contains light oil/lube oil.





**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-27
CLIENT SAMPLE ID	FPP-B18-S (16.5-17.5)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/19/2013 4:29:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	U	25	1	MG/KG	06/26/2013	LAP
TPH-Oil Range	NWTPH-DX w/ SGA	<b>190</b>	50	1	MG/KG	06/26/2013	LAP
Dichlorodifluoromethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Chloromethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Vinyl Chloride	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Bromomethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Chloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Carbon Tetrachloride	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Trichlorofluoromethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Carbon Disulfide	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Acetone	EPA-8260	U	50	1	UG/KG	06/28/2013	GAP
1,1-Dichloroethene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Methylene Chloride	EPA-8260	U	20	1	UG/KG	06/28/2013	GAP
Acrylonitrile	EPA-8260	U	50	1	UG/KG	06/28/2013	GAP
Methyl T-Butyl Ether	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Trans-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,1-Dichloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
2-Butanone	EPA-8260	U	50	1	UG/KG	06/28/2013	GAP
Cis-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
2,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Bromochloromethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Chloroform	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,1,1-Trichloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,1-Dichloropropene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2-Dichloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Benzene	EPA-8260	U	5.0	1	UG/KG	06/28/2013	GAP
Trichloroethene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Dibromomethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Bromodichloromethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Trans-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
4-Methyl-2-Pentanone	EPA-8260	U	50	1	UG/KG	06/28/2013	GAP
Toluene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Cis-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,1,2-Trichloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
2-Hexanone	EPA-8260	U	50	1	UG/KG	06/28/2013	GAP
1,3-Dichloropropane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Tetrachloroethylene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-27
CLIENT SAMPLE ID	FPP-B18-S (16.5-17.5)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/19/2013 4:29:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Dibromochloromethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2-Dibromoethane	EPA-8260	U	5.0	1	UG/KG	06/28/2013	GAP
Chlorobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Ethylbenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
m,p-Xylene	EPA-8260	U	20	1	UG/KG	06/28/2013	GAP
Styrene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
o-Xylene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Bromoform	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Isopropylbenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,1,2,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2,3-Trichloropropane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Bromobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
N-Propyl Benzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
2-Chlorotoluene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,3,5-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
4-Chlorotoluene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
T-Butyl Benzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2,4-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
S-Butyl Benzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
P-Isopropyltoluene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,3 Dichlorobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,4-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
N-Butylbenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	U	50	1	UG/KG	06/28/2013	GAP
1,2,4-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Hexachlorobutadiene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Naphthalene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2,3-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Mercury	EPA-7471	0.027	0.020	1	MG/KG	07/01/2013	RAL
Arsenic	EPA-6020	1.9	1.0	5	MG/KG	07/02/2013	RAL
Cadmium	EPA-6020	U	0.50	5	MG/KG	07/02/2013	RAL
Chromium	EPA-6020	28	0.50	5	MG/KG	07/02/2013	RAL
Iron	EPA-6020	23000	50	5	MG/KG	07/02/2013	RAL
Lead	EPA-6020	6.3	0.50	5	MG/KG	07/02/2013	RAL
Manganese	EPA-6020	290	0.50	5	MG/KG	07/02/2013	RAL



CERTIFICATE OF ANALYSIS

CLIENT: Landau Associates, Inc. DATE: 7/15/2013  
130 - 2nd Ave. S. ALS JOB#: EV13060128  
Edmonds, WA 98020 ALS SAMPLE#: -27  
CLIENT CONTACT: Jeffrey Fellows DATE RECEIVED: 6/24/2013  
CLIENT PROJECT: Yakima Mill Site / #1148007.010 COLLECTION DATE: 6/19/2013 4:29:00 PM  
CLIENT SAMPLE ID FPP-B18-S (16.5-17.5) WDOE ACCREDITATION: C601

DATA RESULTS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX w/ SGA	110	06/26/2013	LAP
1,2-Dichloroethane-d4	EPA-8260	117	06/28/2013	GAP
Toluene-d8	EPA-8260	95.2	06/28/2013	GAP
4-Bromofluorobenzene	EPA-8260	105	06/28/2013	GAP

U - Analyte analyzed for but not detected at level above reporting limit.  
Chromatogram indicates that it is likely that sample contains light oil/lube oil.



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-28
CLIENT SAMPLE ID	FPP-B19-S (11-12)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/19/2013 5:30:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	06/25/2013	GAP
TPH-Diesel Range	NWTPH-DX w/ SGA	U	25	1	MG/KG	06/26/2013	LAP
TPH-Oil Range	NWTPH-DX w/ SGA	140	50	1	MG/KG	06/26/2013	LAP
Dichlorodifluoromethane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Chloromethane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Vinyl Chloride	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Bromomethane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Chloroethane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Carbon Tetrachloride	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Trichlorofluoromethane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Carbon Disulfide	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Acetone	EPA-8260	U	50	1	UG/KG	06/29/2013	GAP
1,1-Dichloroethene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Methylene Chloride	EPA-8260	U	20	1	UG/KG	06/29/2013	GAP
Acrylonitrile	EPA-8260	U	50	1	UG/KG	06/29/2013	GAP
Methyl T-Butyl Ether	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Trans-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,1-Dichloroethane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
2-Butanone	EPA-8260	U	50	1	UG/KG	06/29/2013	GAP
Cis-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
2,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Bromochloromethane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Chloroform	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,1,1-Trichloroethane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,1-Dichloropropene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,2-Dichloroethane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Benzene	EPA-8260	U	5.0	1	UG/KG	06/29/2013	GAP
Trichloroethene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Dibromomethane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Bromodichloromethane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Trans-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
4-Methyl-2-Pentanone	EPA-8260	U	50	1	UG/KG	06/29/2013	GAP
Toluene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Cis-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,1,2-Trichloroethane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
2-Hexanone	EPA-8260	U	50	1	UG/KG	06/29/2013	GAP
1,3-Dichloropropane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/15/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13060128
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-28
<b>CLIENT SAMPLE ID</b>	FPP-B19-S (11-12)	<b>DATE RECEIVED:</b>	6/24/2013
		<b>COLLECTION DATE:</b>	6/19/2013 5:30:00 PM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Tetrachloroethylene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Dibromochloromethane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,2-Dibromoethane	EPA-8260	U	5.0	1	UG/KG	06/29/2013	GAP
Chlorobenzene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Ethylbenzene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
m,p-Xylene	EPA-8260	U	20	1	UG/KG	06/29/2013	GAP
Styrene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
o-Xylene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Bromoform	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Isopropylbenzene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,2,3-Trichloropropane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Bromobenzene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
N-Propyl Benzene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
2-Chlorotoluene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,3,5-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
4-Chlorotoluene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
T-Butyl Benzene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,2,4-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
S-Butyl Benzene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
P-Isopropyltoluene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,3 Dichlorobenzene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,4-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
N-Butylbenzene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,2-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	U	50	1	UG/KG	06/29/2013	GAP
1,2,4-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Hexachlorobutadiene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Naphthalene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,2,3-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	113	06/25/2013	GAP
C25	NWTPH-DX w/ SGA	97.1	06/26/2013	LAP
1,2-Dichloroethane-d4	EPA-8260	111	06/29/2013	GAP
Toluene-d8	EPA-8260	91.9	06/29/2013	GAP



CERTIFICATE OF ANALYSIS

CLIENT: Landau Associates, Inc. DATE: 7/15/2013  
130 - 2nd Ave. S. ALS JOB#: EV13060128  
Edmonds, WA 98020 ALS SAMPLE#: -28  
CLIENT CONTACT: Jeffrey Fellows DATE RECEIVED: 6/24/2013  
CLIENT PROJECT: Yakima Mill Site / #1148007.010 COLLECTION DATE: 6/19/2013 5:30:00 PM  
CLIENT SAMPLE ID FPP-B19-S (11-12) WDOE ACCREDITATION: C601

DATA RESULTS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
4-Bromofluorobenzene	EPA-8260	98.1	06/29/2013	GAP

U - Analyte analyzed for but not detected at level above reporting limit.  
Chromatogram indicates that it is likely that sample contains light oil/lube oil.



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-29
CLIENT SAMPLE ID	FPP-B23-S (11.5-12.5)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/20/2013 8:10:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	U	25	1	MG/KG	06/26/2013	LAP
TPH-Oil Range	NWTPH-DX w/ SGA	U	50	1	MG/KG	06/26/2013	LAP
Mercury	EPA-7471	0.031	0.020	1	MG/KG	07/01/2013	RAL
Arsenic	EPA-6020	1.9	1.0	5	MG/KG	07/02/2013	RAL
Cadmium	EPA-6020	U	0.50	5	MG/KG	07/02/2013	RAL
Chromium	EPA-6020	12	0.50	5	MG/KG	07/02/2013	RAL
Iron	EPA-6020	24000	50	5	MG/KG	07/02/2013	RAL
Lead	EPA-6020	2.9	0.50	5	MG/KG	07/02/2013	RAL
Manganese	EPA-6020	370	0.50	5	MG/KG	07/02/2013	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX w/ SGA	105	06/26/2013	LAP

U - Analyte analyzed for but not detected at level above reporting limit.



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-30
CLIENT SAMPLE ID	FPP-B22-S (12.5-13.5)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/20/2013 8:50:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	U	25	1	MG/KG	06/26/2013	LAP
TPH-Oil Range	NWTPH-DX w/ SGA	U	50	1	MG/KG	06/26/2013	LAP
Percent Solids	EPA-160.3	93.2	0	1	%	06/26/2013	LAP
pH	EPA-9045	8.33	1.00	1	S.U.	06/25/2013	SMR
Mercury	EPA-7471	0.024	0.020	1	MG/KG	07/01/2013	RAL
Arsenic	EPA-6020	2.0	1.0	5	MG/KG	07/02/2013	RAL
Cadmium	EPA-6020	U	0.50	5	MG/KG	07/02/2013	RAL
Chromium	EPA-6020	15	0.50	5	MG/KG	07/02/2013	RAL
Iron	EPA-6020	22000	50	5	MG/KG	07/02/2013	RAL
Lead	EPA-6020	3.3	0.50	5	MG/KG	07/02/2013	RAL
Manganese	EPA-6020	310	0.50	5	MG/KG	07/02/2013	RAL
Total Organic Carbon (TOC)	EPA-9060	U	0.10	1	%	07/01/2013	CAS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX w/ SGA	77.6	06/26/2013	LAP

U - Analyte analyzed for but not detected at level above reporting limit.





**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-31
CLIENT SAMPLE ID	FPP-B21-S (13-14)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/20/2013 9:40:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	U	25	1	MG/KG	06/26/2013	LAP
TPH-Oil Range	NWTPH-DX w/ SGA	U	50	1	MG/KG	06/26/2013	LAP
Mercury	EPA-7471	0.025	0.020	1	MG/KG	07/01/2013	RAL
Arsenic	EPA-6020	2.1	1.0	5	MG/KG	07/02/2013	RAL
Cadmium	EPA-6020	U	0.50	5	MG/KG	07/02/2013	RAL
Chromium	EPA-6020	11	0.50	5	MG/KG	07/02/2013	RAL
Iron	EPA-6020	22000	50	5	MG/KG	07/02/2013	RAL
Lead	EPA-6020	3.0	0.50	5	MG/KG	07/02/2013	RAL
Manganese	EPA-6020	340	0.50	5	MG/KG	07/02/2013	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX w/ SGA	96.0	06/26/2013	LAP

U - Analyte analyzed for but not detected at level above reporting limit.



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-32
CLIENT SAMPLE ID	FPP-B24-S (15-16.5)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/20/2013 10:40:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	06/25/2013	GAP
TPH-Diesel Range	NWTPH-DX w/ SGA	U	25	1	MG/KG	06/26/2013	LAP
TPH-Oil Range	NWTPH-DX w/ SGA	<b>440</b>	50	1	MG/KG	06/26/2013	LAP
Dichlorodifluoromethane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Chloromethane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Vinyl Chloride	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Bromomethane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Chloroethane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Carbon Tetrachloride	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Trichlorofluoromethane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Carbon Disulfide	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Acetone	EPA-8260	U	50	1	UG/KG	06/29/2013	GAP
1,1-Dichloroethene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Methylene Chloride	EPA-8260	U	20	1	UG/KG	06/29/2013	GAP
Acrylonitrile	EPA-8260	U	50	1	UG/KG	06/29/2013	GAP
Methyl T-Butyl Ether	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Trans-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,1-Dichloroethane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
2-Butanone	EPA-8260	U	50	1	UG/KG	06/29/2013	GAP
Cis-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
2,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Bromochloromethane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Chloroform	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,1,1-Trichloroethane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,1-Dichloropropene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,2-Dichloroethane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Benzene	EPA-8260	U	5.0	1	UG/KG	06/29/2013	GAP
Trichloroethene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Dibromomethane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Bromodichloromethane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Trans-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
4-Methyl-2-Pentanone	EPA-8260	U	50	1	UG/KG	06/29/2013	GAP
Toluene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Cis-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,1,2-Trichloroethane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
2-Hexanone	EPA-8260	U	50	1	UG/KG	06/29/2013	GAP
1,3-Dichloropropane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-32
CLIENT SAMPLE ID	FPP-B24-S (15-16.5)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/20/2013 10:40:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Tetrachloroethylene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Dibromochloromethane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,2-Dibromoethane	EPA-8260	U	5.0	1	UG/KG	06/29/2013	GAP
Chlorobenzene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Ethylbenzene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
m,p-Xylene	EPA-8260	U	20	1	UG/KG	06/29/2013	GAP
Styrene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
o-Xylene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Bromoform	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Isopropylbenzene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,2,3-Trichloropropane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Bromobenzene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
N-Propyl Benzene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
2-Chlorotoluene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,3,5-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
4-Chlorotoluene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
T-Butyl Benzene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,2,4-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
S-Butyl Benzene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
P-Isopropyltoluene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,3 Dichlorobenzene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,4-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
N-Butylbenzene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,2-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	U	50	1	UG/KG	06/29/2013	GAP
1,2,4-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Hexachlorobutadiene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Naphthalene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,2,3-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Naphthalene	EPA-8270 SIM	<b>0.014</b>	0.010	1	MG/KG	07/03/2013	LAP
2-Methylnaphthalene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
1-Methylnaphthalene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Acenaphthylene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Acenaphthene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Fluorene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Phenanthrene	EPA-8270 SIM	<b>0.015</b>	0.010	1	MG/KG	07/03/2013	LAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-32
CLIENT SAMPLE ID	FPP-B24-S (15-16.5)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/20/2013 10:40:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Anthracene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Fluoranthene	EPA-8270 SIM	0.012	0.010	1	MG/KG	07/03/2013	LAP
Pyrene	EPA-8270 SIM	0.015	0.010	1	MG/KG	07/03/2013	LAP
Benzo[A]Anthracene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Chrysene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Benzo[B]Fluoranthene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Benzo[K]Fluoranthene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Benzo[A]Pyrene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Benzo[G,H,I]Perylene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Pyridine	EPA-8270	U	200	1	UG/KG	07/03/2013	LAP
N-Nitrosodimethylamine	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Phenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Aniline	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Bis(2-Chloroethyl)Ether	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2-Chlorophenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
1,3-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
1,4-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Benzyl Alcohol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
1,2-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2-Methylphenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Bis(2-Chloroisopropyl)Ether	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
3&4-Methylphenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
N-Nitroso-Di-N-Propylamine	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Hexachloroethane	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Nitrobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Isophorone	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2-Nitrophenol	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
2,4-Dimethylphenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Benzoic Acid	EPA-8270	U	1000	1	UG/KG	07/03/2013	LAP
Bis(2-Chloroethoxy)Methane	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2,4-Dichlorophenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
1,2,4-Trichlorobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
4-Chloroaniline	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2,6-Dichlorophenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Hexachlorobutadiene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
4-Chloro-3-Methylphenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-32
CLIENT SAMPLE ID	FPF-B24-S (15-16.5)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/20/2013 10:40:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Hexachlorocyclopentadiene	EPA-8270	U	500	1	UG/KG	07/03/2013	LAP
2,4,6-Trichlorophenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2,4,5-Trichlorophenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2-Chloronaphthalene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2-Nitroaniline	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
Dimethylphthalate	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2,6-Dinitrotoluene	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
3-Nitroaniline	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
2,4-Dinitrophenol	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
4-Nitrophenol	EPA-8270	U	500	1	UG/KG	07/03/2013	LAP
Dibenzofuran	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2,4-Dinitrotoluene	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
2,3,4,6-Tetrachlorophenol	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
Diethylphthalate	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
4-Chlorophenyl-Phenylether	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
4-Nitroaniline	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
4,6-Dinitro-2-Methylphenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
N-Nitrosodiphenylamine	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Azobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
4-Bromophenyl-Phenylether	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Hexachlorobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Pentachlorophenol	EPA-8270	U	500	1	UG/KG	07/03/2013	LAP
Carbazole	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Di-N-Butylphthalate	EPA-8270	U	130	1	UG/KG	07/03/2013	LAP
Butylbenzylphthalate	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
3,3-Dichlorobenzidine	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	130	1	UG/KG	07/03/2013	LAP
Di-N-Octylphthalate	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
PCB-1016	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
PCB-1268	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
PCB-1221	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
PCB-1232	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
PCB-1242	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
PCB-1248	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
PCB-1254	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
PCB-1260	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
Chromium (VI)	EPA-7196	U	5.0	1	MG/KG	06/28/2013	RAL
Percent Solids	EPA-160.3	<b>78.1</b>	0	1	%	06/26/2013	LAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-32
CLIENT SAMPLE ID	FPP-B24-S (15-16.5)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/20/2013 10:40:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
pH	EPA-9045	8.10	1.00	1	S.U.	06/25/2013	SMR
Mercury	EPA-7471	0.028	0.020	1	MG/KG	07/01/2013	RAL
Arsenic	EPA-6020	2.4	1.0	5	MG/KG	07/02/2013	RAL
Cadmium	EPA-6020	U	0.50	5	MG/KG	07/02/2013	RAL
Chromium	EPA-6020	17	0.50	5	MG/KG	07/02/2013	RAL
Iron	EPA-6020	24000	50	5	MG/KG	07/02/2013	RAL
Lead	EPA-6020	6.7	0.50	5	MG/KG	07/02/2013	RAL
Manganese	EPA-6020	250	0.50	5	MG/KG	07/02/2013	RAL
Total Organic Carbon (TOC)	EPA-9060	2.2	0.10	1	%	07/01/2013	CAS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	90.0	06/25/2013	GAP
C25	NWTPH-DX w/ SGA	132	06/26/2013	LAP
1,2-Dichloroethane-d4	EPA-8260	120	06/29/2013	GAP
Toluene-d8	EPA-8260	83.9	06/29/2013	GAP
4-Bromofluorobenzene	EPA-8260	125 GS1	06/29/2013	GAP
Terphenyl-d14	EPA-8270 SIM	83.7	07/03/2013	LAP
2-Fluorophenol	EPA-8270	104	07/03/2013	LAP
Phenol-d5	EPA-8270	81.7	07/03/2013	LAP
Nitrobenzene-d5	EPA-8270	80.5	07/03/2013	LAP
2-Fluorobiphenyl	EPA-8270	73.8	07/03/2013	LAP
2,4,6-Tribromophenol	EPA-8270	87.6	07/03/2013	LAP
Terphenyl-d14	EPA-8270	83.7	07/03/2013	LAP
TCMX	EPA-8082	91.0	06/27/2013	LAP
DCB	EPA-8082	78.0	06/27/2013	LAP

GS1 - Surrogate outside of control limits due to matrix effect.  
 U - Analyte analyzed for but not detected at level above reporting limit.  
 Chromatogram indicates that it is likely that sample contains light oil/lube oil.



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-33
CLIENT SAMPLE ID	FPP-B20-S (10-11)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/20/2013 11:30:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	06/25/2013	GAP
TPH-Diesel Range	NWTPH-DX w/ SGA	U	25	1	MG/KG	06/26/2013	LAP
TPH-Oil Range	NWTPH-DX w/ SGA	130	50	1	MG/KG	06/26/2013	LAP
Dichlorodifluoromethane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Chloromethane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Vinyl Chloride	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Bromomethane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Chloroethane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Carbon Tetrachloride	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Trichlorofluoromethane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Carbon Disulfide	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Acetone	EPA-8260	U	50	1	UG/KG	06/29/2013	GAP
1,1-Dichloroethene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Methylene Chloride	EPA-8260	U	20	1	UG/KG	06/29/2013	GAP
Acrylonitrile	EPA-8260	U	50	1	UG/KG	06/29/2013	GAP
Methyl T-Butyl Ether	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Trans-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,1-Dichloroethane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
2-Butanone	EPA-8260	U	50	1	UG/KG	06/29/2013	GAP
Cis-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
2,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Bromochloromethane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Chloroform	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,1,1-Trichloroethane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,1-Dichloropropene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,2-Dichloroethane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Benzene	EPA-8260	U	5.0	1	UG/KG	06/29/2013	GAP
Trichloroethene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Dibromomethane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Bromodichloromethane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Trans-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
4-Methyl-2-Pentanone	EPA-8260	U	50	1	UG/KG	06/29/2013	GAP
Toluene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Cis-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,1,2-Trichloroethane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
2-Hexanone	EPA-8260	U	50	1	UG/KG	06/29/2013	GAP
1,3-Dichloropropane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-33
CLIENT SAMPLE ID	FPP-B20-S (10-11)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/20/2013 11:30:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Tetrachloroethylene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Dibromochloromethane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,2-Dibromoethane	EPA-8260	U	5.0	1	UG/KG	06/29/2013	GAP
Chlorobenzene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Ethylbenzene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
m,p-Xylene	EPA-8260	U	20	1	UG/KG	06/29/2013	GAP
Styrene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
o-Xylene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Bromoform	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Isopropylbenzene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,2,3-Trichloropropane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Bromobenzene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
N-Propyl Benzene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
2-Chlorotoluene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,3,5-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
4-Chlorotoluene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
T-Butyl Benzene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,2,4-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
S-Butyl Benzene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
P-Isopropyltoluene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,3 Dichlorobenzene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,4-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
N-Butylbenzene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,2-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	U	50	1	UG/KG	06/29/2013	GAP
1,2,4-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Hexachlorobutadiene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Naphthalene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,2,3-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Naphthalene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
2-Methylnaphthalene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
1-Methylnaphthalene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Acenaphthylene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Acenaphthene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Fluorene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Phenanthrene	EPA-8270 SIM	<b>0.012</b>	0.010	1	MG/KG	07/03/2013	LAP





**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-33
CLIENT SAMPLE ID	FPP-B20-S (10-11)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/20/2013 11:30:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Anthracene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Fluoranthene	EPA-8270 SIM	0.011	0.010	1	MG/KG	07/03/2013	LAP
Pyrene	EPA-8270 SIM	0.013	0.010	1	MG/KG	07/03/2013	LAP
Benzo[A]Anthracene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Chrysene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Benzo[B]Fluoranthene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Benzo[K]Fluoranthene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Benzo[A]Pyrene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Benzo[G,H,I]Perylene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Pyridine	EPA-8270	U	200	1	UG/KG	07/03/2013	LAP
N-Nitrosodimethylamine	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Phenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Aniline	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Bis(2-Chloroethyl)Ether	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2-Chlorophenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
1,3-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
1,4-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Benzyl Alcohol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
1,2-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2-Methylphenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Bis(2-Chloroisopropyl)Ether	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
3&4-Methylphenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
N-Nitroso-Di-N-Propylamine	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Hexachloroethane	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Nitrobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Isophorone	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2-Nitrophenol	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
2,4-Dimethylphenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Benzoic Acid	EPA-8270	U	1000	1	UG/KG	07/03/2013	LAP
Bis(2-Chloroethoxy)Methane	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2,4-Dichlorophenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
1,2,4-Trichlorobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
4-Chloroaniline	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2,6-Dichlorophenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Hexachlorobutadiene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
4-Chloro-3-Methylphenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-33
CLIENT SAMPLE ID	FPP-B20-S (10-11)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/20/2013 11:30:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Hexachlorocyclopentadiene	EPA-8270	U	500	1	UG/KG	07/03/2013	LAP
2,4,6-Trichlorophenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2,4,5-Trichlorophenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2-Chloronaphthalene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2-Nitroaniline	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
Dimethylphthalate	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2,6-Dinitrotoluene	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
3-Nitroaniline	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
2,4-Dinitrophenol	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
4-Nitrophenol	EPA-8270	U	500	1	UG/KG	07/03/2013	LAP
Dibenzofuran	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2,4-Dinitrotoluene	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
2,3,4,6-Tetrachlorophenol	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
Diethylphthalate	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
4-Chlorophenyl-Phenylether	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
4-Nitroaniline	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
4,6-Dinitro-2-Methylphenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
N-Nitrosodiphenylamine	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Azobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
4-Bromophenyl-Phenylether	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Hexachlorobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Pentachlorophenol	EPA-8270	U	500	1	UG/KG	07/03/2013	LAP
Carbazole	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Di-N-Butylphthalate	EPA-8270	U	130	1	UG/KG	07/03/2013	LAP
Butylbenzylphthalate	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
3,3-Dichlorobenzidine	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
Bis(2-Ethylhexyl)Phthalate	EPA-8270	<b>150</b>	130	1	UG/KG	07/03/2013	LAP
Di-N-Octylphthalate	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
PCB-1016	EPA-8082	U	0.10	1	MG/KG	06/28/2013	LAP
PCB-1268	EPA-8082	U	0.10	1	MG/KG	06/28/2013	LAP
PCB-1221	EPA-8082	U	0.10	1	MG/KG	06/28/2013	LAP
PCB-1232	EPA-8082	U	0.10	1	MG/KG	06/28/2013	LAP
PCB-1242	EPA-8082	U	0.10	1	MG/KG	06/28/2013	LAP
PCB-1248	EPA-8082	U	0.10	1	MG/KG	06/28/2013	LAP
PCB-1254	EPA-8082	U	0.10	1	MG/KG	06/28/2013	LAP
PCB-1260	EPA-8082	U	0.10	1	MG/KG	06/28/2013	LAP
pH	EPA-9045	<b>7.89</b>	1.00	1	S.U.	06/25/2013	SMR
Mercury	EPA-7471	<b>0.079</b>	0.020	1	MG/KG	07/01/2013	RAL



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-33
CLIENT SAMPLE ID	FPP-B20-S (10-11)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/20/2013 11:30:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Arsenic	EPA-6020	2.4	1.0	5	MG/KG	07/02/2013	RAL
Cadmium	EPA-6020	U	0.50	5	MG/KG	07/02/2013	RAL
Chromium	EPA-6020	9.3	0.50	5	MG/KG	07/02/2013	RAL
Iron	EPA-6020	31000	50	5	MG/KG	07/02/2013	RAL
Lead	EPA-6020	30	0.50	5	MG/KG	07/02/2013	RAL
Manganese	EPA-6020	560	0.50	5	MG/KG	07/02/2013	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	93.3	06/25/2013	GAP
C25	NWTPH-DX w/ SGA	132	06/26/2013	LAP
1,2-Dichloroethane-d4	EPA-8260	116	06/29/2013	GAP
Toluene-d8	EPA-8260	90.5	06/29/2013	GAP
4-Bromofluorobenzene	EPA-8260	102	06/29/2013	GAP
Terphenyl-d14	EPA-8270 SIM	94.2	07/03/2013	LAP
2-Fluorophenol	EPA-8270	104	07/03/2013	LAP
Phenol-d5	EPA-8270	84.2	07/03/2013	LAP
Nitrobenzene-d5	EPA-8270	86.0	07/03/2013	LAP
2-Fluorobiphenyl	EPA-8270	81.0	07/03/2013	LAP
2,4,6-Tribromophenol	EPA-8270	98.3	07/03/2013	LAP
Terphenyl-d14	EPA-8270	94.2	07/03/2013	LAP
TCMX	EPA-8082	70.0	06/28/2013	LAP
DCB	EPA-8082	62.0	06/28/2013	LAP

U - Analyte analyzed for but not detected at level above reporting limit.  
Chromatogram indicates that it is likely that sample contains weathered gasoline and light oil/lube oil.



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-34
CLIENT SAMPLE ID	TP-B04-S (2-3)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/20/2013 1:30:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	U	35	1	MG/KG	06/26/2013	LAP
TPH-Oil Range	NWTPH-DX w/ SGA	510	50	1	MG/KG	06/26/2013	LAP
Mercury	EPA-7471	0.091	0.020	1	MG/KG	07/01/2013	RAL
Arsenic	EPA-6020	5.8	1.5	5	MG/KG	07/02/2013	RAL
Cadmium	EPA-6020	U	0.50	5	MG/KG	07/02/2013	RAL
Chromium	EPA-6020	17	0.74	5	MG/KG	07/02/2013	RAL
Iron	EPA-6020	33000	67	5	MG/KG	07/02/2013	RAL
Lead	EPA-6020	28	0.50	5	MG/KG	07/02/2013	RAL
Manganese	EPA-6020	1200	0.58	5	MG/KG	07/02/2013	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX w/ SGA	98.7	06/26/2013	LAP

U - Analyte analyzed for but not detected at level above reporting limit.  
Chromatogram indicates that it is likely that sample contains light oil/lube oil.



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-35
CLIENT SAMPLE ID	TP-B04b-S (11.5-13)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/20/2013 2:20:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	06/25/2013	GAP
TPH-Diesel Range	NWTPH-DX w/ SGA	U	50	2	MG/KG	06/27/2013	LAP
TPH-Oil Range	NWTPH-DX w/ SGA	1700	100	2	MG/KG	06/27/2013	LAP
Dichlorodifluoromethane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Chloromethane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Vinyl Chloride	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Bromomethane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Chloroethane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Carbon Tetrachloride	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Trichlorofluoromethane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Carbon Disulfide	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Acetone	EPA-8260	U	50	1	UG/KG	06/29/2013	GAP
1,1-Dichloroethene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Methylene Chloride	EPA-8260	U	20	1	UG/KG	06/29/2013	GAP
Acrylonitrile	EPA-8260	U	50	1	UG/KG	06/29/2013	GAP
Methyl T-Butyl Ether	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Trans-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,1-Dichloroethane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
2-Butanone	EPA-8260	U	50	1	UG/KG	06/29/2013	GAP
Cis-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
2,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Bromochloromethane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Chloroform	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,1,1-Trichloroethane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,1-Dichloropropene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,2-Dichloroethane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Benzene	EPA-8260	U	5.0	1	UG/KG	06/29/2013	GAP
Trichloroethene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Dibromomethane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Bromodichloromethane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Trans-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
4-Methyl-2-Pentanone	EPA-8260	U	50	1	UG/KG	06/29/2013	GAP
Toluene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Cis-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,1,2-Trichloroethane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
2-Hexanone	EPA-8260	U	50	1	UG/KG	06/29/2013	GAP
1,3-Dichloropropane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/15/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13060128
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-35
<b>CLIENT SAMPLE ID</b>	TP-B04b-S (11.5-13)	<b>DATE RECEIVED:</b>	6/24/2013
		<b>COLLECTION DATE:</b>	6/20/2013 2:20:00 PM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Tetrachloroethylene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Dibromochloromethane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,2-Dibromoethane	EPA-8260	U	5.0	1	UG/KG	06/29/2013	GAP
Chlorobenzene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Ethylbenzene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
m,p-Xylene	EPA-8260	U	20	1	UG/KG	06/29/2013	GAP
Styrene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
o-Xylene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Bromoform	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Isopropylbenzene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,2,3-Trichloropropane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Bromobenzene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
N-Propyl Benzene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
2-Chlorotoluene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,3,5-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
4-Chlorotoluene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
T-Butyl Benzene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,2,4-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
S-Butyl Benzene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
P-Isopropyltoluene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,3 Dichlorobenzene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,4-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
N-Butylbenzene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,2-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	U	50	1	UG/KG	06/29/2013	GAP
1,2,4-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Hexachlorobutadiene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Naphthalene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,2,3-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Naphthalene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
2-Methylnaphthalene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
1-Methylnaphthalene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Acenaphthylene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Acenaphthene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Fluorene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Phenanthrene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-35
CLIENT SAMPLE ID	TP-B04b-S (11.5-13)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/20/2013 2:20:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Anthracene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Fluoranthene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Pyrene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Benzo[A]Anthracene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Chrysene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Benzo[B]Fluoranthene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Benzo[K]Fluoranthene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Benzo[A]Pyrene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Benzo[G,H,I]Perylene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Pyridine	EPA-8270	U	200	1	UG/KG	07/03/2013	LAP
N-Nitrosodimethylamine	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Phenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Aniline	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Bis(2-Chloroethyl)Ether	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2-Chlorophenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
1,3-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
1,4-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Benzyl Alcohol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
1,2-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2-Methylphenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Bis(2-Chloroisopropyl)Ether	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
3&4-Methylphenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
N-Nitroso-Di-N-Propylamine	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Hexachloroethane	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Nitrobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Isophorone	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2-Nitrophenol	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
2,4-Dimethylphenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Benzoic Acid	EPA-8270	U	1000	1	UG/KG	07/03/2013	LAP
Bis(2-Chloroethoxy)Methane	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2,4-Dichlorophenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
1,2,4-Trichlorobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
4-Chloroaniline	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2,6-Dichlorophenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Hexachlorobutadiene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
4-Chloro-3-Methylphenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-35
CLIENT SAMPLE ID	TP-B04b-S (11.5-13)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/20/2013 2:20:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Hexachlorocyclopentadiene	EPA-8270	U	500	1	UG/KG	07/03/2013	LAP
2,4,6-Trichlorophenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2,4,5-Trichlorophenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2-Chloronaphthalene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2-Nitroaniline	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
Dimethylphthalate	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2,6-Dinitrotoluene	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
3-Nitroaniline	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
2,4-Dinitrophenol	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
4-Nitrophenol	EPA-8270	U	500	1	UG/KG	07/03/2013	LAP
Dibenzofuran	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2,4-Dinitrotoluene	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
2,3,4,6-Tetrachlorophenol	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
Diethylphthalate	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
4-Chlorophenyl-Phenylether	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
4-Nitroaniline	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
4,6-Dinitro-2-Methylphenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
N-Nitrosodiphenylamine	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Azobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
4-Bromophenyl-Phenylether	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Hexachlorobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Pentachlorophenol	EPA-8270	U	500	1	UG/KG	07/03/2013	LAP
Carbazole	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Di-N-Butylphthalate	EPA-8270	U	130	1	UG/KG	07/03/2013	LAP
Butylbenzylphthalate	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
3,3-Dichlorobenzidine	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	130	1	UG/KG	07/03/2013	LAP
Di-N-Octylphthalate	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
PCB-1016	EPA-8082	U	0.10	1	MG/KG	06/28/2013	LAP
PCB-1268	EPA-8082	U	0.10	1	MG/KG	06/28/2013	LAP
PCB-1221	EPA-8082	U	0.10	1	MG/KG	06/28/2013	LAP
PCB-1232	EPA-8082	U	0.10	1	MG/KG	06/28/2013	LAP
PCB-1242	EPA-8082	U	0.10	1	MG/KG	06/28/2013	LAP
PCB-1248	EPA-8082	U	0.10	1	MG/KG	06/28/2013	LAP
PCB-1254	EPA-8082	U	0.10	1	MG/KG	06/28/2013	LAP
PCB-1260	EPA-8082	U	0.10	1	MG/KG	06/28/2013	LAP
Percent Solids	EPA-160.3	92.0	0	1	%	06/26/2013	LAP
Mercury	EPA-7471	0.023	0.020	1	MG/KG	07/01/2013	RAL





**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-35
CLIENT SAMPLE ID	TP-B04b-S (11.5-13)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/20/2013 2:20:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Arsenic	EPA-6020	1.8	1.0	5	MG/KG	07/02/2013	RAL
Cadmium	EPA-6020	U	0.50	5	MG/KG	07/02/2013	RAL
Chromium	EPA-6020	19	0.50	5	MG/KG	07/02/2013	RAL
Iron	EPA-6020	24000	50	5	MG/KG	07/02/2013	RAL
Lead	EPA-6020	3.4	0.50	5	MG/KG	07/02/2013	RAL
Manganese	EPA-6020	290	0.50	5	MG/KG	07/02/2013	RAL
Total Organic Carbon (TOC)	EPA-9060	1.9	0.10	1	%	07/01/2013	CAS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	139	06/25/2013	GAP
C25 2X Dilution	NWTPH-DX w/ SGA	138	06/27/2013	LAP
1,2-Dichloroethane-d4	EPA-8260	119	06/29/2013	GAP
Toluene-d8	EPA-8260	87.9	06/29/2013	GAP
4-Bromofluorobenzene	EPA-8260	96.4	06/29/2013	GAP
Terphenyl-d14	EPA-8270 SIM	102	07/03/2013	LAP
2-Fluorophenol	EPA-8270	112	07/03/2013	LAP
Phenol-d5	EPA-8270	88.7	07/03/2013	LAP
Nitrobenzene-d5	EPA-8270	85.5	07/03/2013	LAP
2-Fluorobiphenyl	EPA-8270	86.1	07/03/2013	LAP
2,4,6-Tribromophenol	EPA-8270	98.5	07/03/2013	LAP
Terphenyl-d14	EPA-8270	102	07/03/2013	LAP
TCMX	EPA-8082	82.0	06/28/2013	LAP
DCB	EPA-8082	71.0	06/28/2013	LAP

U - Analyte analyzed for but not detected at level above reporting limit.  
Chromatogram indicates that it is likely that sample contains light oil/lube oil.



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-36
CLIENT SAMPLE ID	TP-B06-S (13.5-14)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/20/2013 3:30:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	U	30	1	MG/KG	06/27/2013	LAP
TPH-Oil Range	NWTPH-DX w/ SGA	61	50	1	MG/KG	06/27/2013	LAP
Percent Solids	EPA-160.3	61.4	0	1	%	06/26/2013	LAP
Mercury	EPA-7471	0.094	0.020	1	MG/KG	07/01/2013	RAL
Arsenic	EPA-6020	4.4	1.2	5	MG/KG	07/02/2013	RAL
Cadmium	EPA-6020	U	0.50	5	MG/KG	07/02/2013	RAL
Chromium	EPA-6020	22	0.60	5	MG/KG	07/02/2013	RAL
Iron	EPA-6020	29000	55	5	MG/KG	07/02/2013	RAL
Lead	EPA-6020	7.4	0.50	5	MG/KG	07/02/2013	RAL
Manganese	EPA-6020	300	0.50	5	MG/KG	07/02/2013	RAL
Total Organic Carbon (TOC)	EPA-9060	1.6	0.10	1	%	07/01/2013	CAS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX w/ SGA	108	06/27/2013	LAP

U - Analyte analyzed for but not detected at level above reporting limit.  
Chromatogram indicates that it is likely that sample contains light oil/lube oil.



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/15/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13060128
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-37
<b>CLIENT SAMPLE ID</b>	TP-B03-S (15-16)	<b>DATE RECEIVED:</b>	6/24/2013
		<b>COLLECTION DATE:</b>	6/20/2013 4:40:00 PM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	U	25	1	MG/KG	06/27/2013	LAP
TPH-Oil Range	NWTPH-DX w/ SGA	U	50	1	MG/KG	06/27/2013	LAP
Dichlorodifluoromethane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Chloromethane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Vinyl Chloride	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Bromomethane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Chloroethane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Carbon Tetrachloride	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Trichlorofluoromethane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Carbon Disulfide	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Acetone	EPA-8260	U	50	1	UG/KG	06/29/2013	GAP
1,1-Dichloroethene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Methylene Chloride	EPA-8260	U	20	1	UG/KG	06/29/2013	GAP
Acrylonitrile	EPA-8260	U	50	1	UG/KG	06/29/2013	GAP
Methyl T-Butyl Ether	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Trans-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,1-Dichloroethane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
2-Butanone	EPA-8260	U	50	1	UG/KG	06/29/2013	GAP
Cis-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
2,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Bromochloromethane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Chloroform	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,1,1-Trichloroethane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,1-Dichloropropene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,2-Dichloroethane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Benzene	EPA-8260	U	5.0	1	UG/KG	06/29/2013	GAP
Trichloroethene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Dibromomethane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Bromodichloromethane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Trans-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
4-Methyl-2-Pentanone	EPA-8260	U	50	1	UG/KG	06/29/2013	GAP
Toluene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Cis-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,1,2-Trichloroethane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
2-Hexanone	EPA-8260	U	50	1	UG/KG	06/29/2013	GAP
1,3-Dichloropropane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Tetrachloroethylene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-37
CLIENT SAMPLE ID	TP-B03-S (15-16)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/20/2013 4:40:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Dibromochloromethane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,2-Dibromoethane	EPA-8260	U	5.0	1	UG/KG	06/29/2013	GAP
Chlorobenzene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Ethylbenzene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
m,p-Xylene	EPA-8260	U	20	1	UG/KG	06/29/2013	GAP
Styrene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
o-Xylene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Bromoform	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Isopropylbenzene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,1,2,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,2,3-Trichloropropane	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Bromobenzene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
N-Propyl Benzene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
2-Chlorotoluene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,3,5-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
4-Chlorotoluene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
T-Butyl Benzene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,2,4-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
S-Butyl Benzene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
P-Isopropyltoluene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,3 Dichlorobenzene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,4-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
N-Butylbenzene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,2-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	U	50	1	UG/KG	06/29/2013	GAP
1,2,4-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Hexachlorobutadiene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Naphthalene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
1,2,3-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	06/29/2013	GAP
Chromium (VI)	EPA-7196	U	5.0	1	MG/KG	06/28/2013	RAL
Mercury	EPA-7471	<b>0.027</b>	0.020	1	MG/KG	07/01/2013	RAL
Arsenic	EPA-6020	<b>1.9</b>	1.0	5	MG/KG	07/02/2013	RAL
Cadmium	EPA-6020	U	0.50	5	MG/KG	07/02/2013	RAL
Chromium	EPA-6020	<b>9.4</b>	0.50	5	MG/KG	07/02/2013	RAL
Iron	EPA-6020	<b>22000</b>	50	5	MG/KG	07/02/2013	RAL
Lead	EPA-6020	<b>3.3</b>	0.50	5	MG/KG	07/02/2013	RAL
Manganese	EPA-6020	<b>330</b>	0.50	5	MG/KG	07/02/2013	RAL



CERTIFICATE OF ANALYSIS

CLIENT: Landau Associates, Inc. DATE: 7/15/2013  
130 - 2nd Ave. S. ALS JOB#: EV13060128  
Edmonds, WA 98020 ALS SAMPLE#: -37  
CLIENT CONTACT: Jeffrey Fellows DATE RECEIVED: 6/24/2013  
CLIENT PROJECT: Yakima Mill Site / #1148007.010 COLLECTION DATE: 6/20/2013 4:40:00 PM  
CLIENT SAMPLE ID TP-B03-S (15-16) WDOE ACCREDITATION: C601

DATA RESULTS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX w/ SGA	88.6	06/27/2013	LAP
1,2-Dichloroethane-d4	EPA-8260	116	06/29/2013	GAP
Toluene-d8	EPA-8260	89.8	06/29/2013	GAP
4-Bromofluorobenzene	EPA-8260	104	06/29/2013	GAP

U - Analyte analyzed for but not detected at level above reporting limit.



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/15/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13060128
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-38
<b>CLIENT SAMPLE ID</b>	TP-B02-S (13-14)	<b>DATE RECEIVED:</b>	6/24/2013
		<b>COLLECTION DATE:</b>	6/20/2013 5:30:00 PM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	06/25/2013	GAP
TPH-Diesel Range	NWTPH-DX w/ SGA	U	25	1	MG/KG	06/27/2013	LAP
TPH-Oil Range	NWTPH-DX w/ SGA	U	50	1	MG/KG	06/27/2013	LAP
Dichlorodifluoromethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Chloromethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Vinyl Chloride	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Bromomethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Chloroethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Carbon Tetrachloride	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Trichlorofluoromethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Carbon Disulfide	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Acetone	EPA-8260	U	50	1	UG/KG	07/01/2013	GAP
1,1-Dichloroethene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Methylene Chloride	EPA-8260	U	20	1	UG/KG	07/01/2013	GAP
Acrylonitrile	EPA-8260	U	50	1	UG/KG	07/01/2013	GAP
Methyl T-Butyl Ether	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Trans-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,1-Dichloroethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
2-Butanone	EPA-8260	U	50	1	UG/KG	07/01/2013	GAP
Cis-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
2,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Bromochloromethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Chloroform	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,1,1-Trichloroethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,1-Dichloropropene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,2-Dichloroethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Benzene	EPA-8260	U	5.0	1	UG/KG	07/01/2013	GAP
Trichloroethene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Dibromomethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Bromodichloromethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Trans-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
4-Methyl-2-Pentanone	EPA-8260	U	50	1	UG/KG	07/01/2013	GAP
Toluene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Cis-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,1,2-Trichloroethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
2-Hexanone	EPA-8260	U	50	1	UG/KG	07/01/2013	GAP
1,3-Dichloropropane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/15/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13060128
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-38
<b>CLIENT SAMPLE ID</b>	TP-B02-S (13-14)	<b>DATE RECEIVED:</b>	6/24/2013
		<b>COLLECTION DATE:</b>	6/20/2013 5:30:00 PM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Tetrachloroethylene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Dibromochloromethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,2-Dibromoethane	EPA-8260	U	5.0	1	UG/KG	07/01/2013	GAP
Chlorobenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Ethylbenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
m,p-Xylene	EPA-8260	U	20	1	UG/KG	07/01/2013	GAP
Styrene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
o-Xylene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Bromoform	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Isopropylbenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,2,3-Trichloropropane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Bromobenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
N-Propyl Benzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
2-Chlorotoluene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,3,5-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
4-Chlorotoluene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
T-Butyl Benzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,2,4-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
S-Butyl Benzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
P-Isopropyltoluene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,3 Dichlorobenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,4-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
N-Butylbenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,2-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	U	50	1	UG/KG	07/01/2013	GAP
1,2,4-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Hexachlorobutadiene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Naphthalene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,2,3-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Naphthalene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
2-Methylnaphthalene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
1-Methylnaphthalene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Acenaphthylene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Acenaphthene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Fluorene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Phenanthrene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/15/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13060128
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-38
<b>CLIENT SAMPLE ID</b>	TP-B02-S (13-14)	<b>DATE RECEIVED:</b>	6/24/2013
		<b>COLLECTION DATE:</b>	6/20/2013 5:30:00 PM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Anthracene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Fluoranthene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Pyrene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Benzo[A]Anthracene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Chrysene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Benzo[B]Fluoranthene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Benzo[K]Fluoranthene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Benzo[A]Pyrene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Benzo[G,H,I]Perylene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Pyridine	EPA-8270	U	200	1	UG/KG	07/03/2013	LAP
N-Nitrosodimethylamine	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Phenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Aniline	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Bis(2-Chloroethyl)Ether	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2-Chlorophenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
1,3-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
1,4-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Benzyl Alcohol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
1,2-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2-Methylphenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Bis(2-Chloroisopropyl)Ether	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
3&4-Methylphenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
N-Nitroso-Di-N-Propylamine	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Hexachloroethane	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Nitrobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Isophorone	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2-Nitrophenol	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
2,4-Dimethylphenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Benzoic Acid	EPA-8270	U	1000	1	UG/KG	07/03/2013	LAP
Bis(2-Chloroethoxy)Methane	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2,4-Dichlorophenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
1,2,4-Trichlorobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
4-Chloroaniline	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2,6-Dichlorophenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Hexachlorobutadiene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
4-Chloro-3-Methylphenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP





**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-38
CLIENT SAMPLE ID	TP-B02-S (13-14)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/20/2013 5:30:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Hexachlorocyclopentadiene	EPA-8270	U	500	1	UG/KG	07/03/2013	LAP
2,4,6-Trichlorophenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2,4,5-Trichlorophenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2-Chloronaphthalene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2-Nitroaniline	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
Dimethylphthalate	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2,6-Dinitrotoluene	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
3-Nitroaniline	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
2,4-Dinitrophenol	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
4-Nitrophenol	EPA-8270	U	500	1	UG/KG	07/03/2013	LAP
Dibenzofuran	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2,4-Dinitrotoluene	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
2,3,4,6-Tetrachlorophenol	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
Diethylphthalate	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
4-Chlorophenyl-Phenylether	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
4-Nitroaniline	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
4,6-Dinitro-2-Methylphenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
N-Nitrosodiphenylamine	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Azobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
4-Bromophenyl-Phenylether	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Hexachlorobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Pentachlorophenol	EPA-8270	U	500	1	UG/KG	07/03/2013	LAP
Carbazole	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Di-N-Butylphthalate	EPA-8270	U	130	1	UG/KG	07/03/2013	LAP
Butylbenzylphthalate	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
3,3-Dichlorobenzidine	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	130	1	UG/KG	07/03/2013	LAP
Di-N-Octylphthalate	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Mercury	EPA-7471	0.12	0.020	1	MG/KG	07/01/2013	RAL
Arsenic	EPA-6020	1.9	1.0	5	MG/KG	07/02/2013	RAL
Cadmium	EPA-6020	U	0.50	5	MG/KG	07/02/2013	RAL
Chromium	EPA-6020	12	0.50	5	MG/KG	07/02/2013	RAL
Iron	EPA-6020	23000	50	5	MG/KG	07/02/2013	RAL
Lead	EPA-6020	5.4	0.50	5	MG/KG	07/02/2013	RAL
Manganese	EPA-6020	350	0.50	5	MG/KG	07/02/2013	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
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**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-38
CLIENT SAMPLE ID	TP-B02-S (13-14)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/20/2013 5:30:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

SURROGATE	METHOD	%REC	ANALYSIS	ANALYSIS
			DATE	BY
TFT	NWTPH-GX	111	06/25/2013	GAP
C25	NWTPH-DX w/ SGA	102	06/27/2013	LAP
1,2-Dichloroethane-d4	EPA-8260	127	07/01/2013	GAP
Toluene-d8	EPA-8260	88.2	07/01/2013	GAP
4-Bromofluorobenzene	EPA-8260	79.1	07/01/2013	GAP
Terphenyl-d14	EPA-8270 SIM	93.4	07/03/2013	LAP
2-Fluorophenol	EPA-8270	112	07/03/2013	LAP
Phenol-d5	EPA-8270	89.5	07/03/2013	LAP
Nitrobenzene-d5	EPA-8270	89.2	07/03/2013	LAP
2-Fluorobiphenyl	EPA-8270	84.9	07/03/2013	LAP
2,4,6-Tribromophenol	EPA-8270	98.1	07/03/2013	LAP
Terphenyl-d14	EPA-8270	93.4	07/03/2013	LAP

U - Analyte analyzed for but not detected at level above reporting limit.



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/15/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13060128
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-39
<b>CLIENT SAMPLE ID</b>	TP-B01-S (6.5-7.5)	<b>DATE RECEIVED:</b>	6/24/2013
		<b>COLLECTION DATE:</b>	6/21/2013 7:50:00 AM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	06/25/2013	GAP
TPH-Diesel Range	NWTPH-DX w/ SGA	U	25	1	MG/KG	06/27/2013	LAP
TPH-Oil Range	NWTPH-DX w/ SGA	U	50	1	MG/KG	06/27/2013	LAP
Dichlorodifluoromethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Chloromethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Vinyl Chloride	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Bromomethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Chloroethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Carbon Tetrachloride	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Trichlorofluoromethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Carbon Disulfide	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Acetone	EPA-8260	U	50	1	UG/KG	07/01/2013	GAP
1,1-Dichloroethene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Methylene Chloride	EPA-8260	U	20	1	UG/KG	07/01/2013	GAP
Acrylonitrile	EPA-8260	U	50	1	UG/KG	07/01/2013	GAP
Methyl T-Butyl Ether	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Trans-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,1-Dichloroethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
2-Butanone	EPA-8260	U	50	1	UG/KG	07/01/2013	GAP
Cis-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
2,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Bromochloromethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Chloroform	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,1,1-Trichloroethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,1-Dichloropropene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,2-Dichloroethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Benzene	EPA-8260	U	5.0	1	UG/KG	07/01/2013	GAP
Trichloroethene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Dibromomethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Bromodichloromethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Trans-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
4-Methyl-2-Pentanone	EPA-8260	U	50	1	UG/KG	07/01/2013	GAP
Toluene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Cis-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,1,2-Trichloroethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
2-Hexanone	EPA-8260	U	50	1	UG/KG	07/01/2013	GAP
1,3-Dichloropropane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/15/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13060128
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-39
<b>CLIENT SAMPLE ID</b>	TP-B01-S (6.5-7.5)	<b>DATE RECEIVED:</b>	6/24/2013
		<b>COLLECTION DATE:</b>	6/21/2013 7:50:00 AM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Tetrachloroethylene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Dibromochloromethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,2-Dibromoethane	EPA-8260	U	5.0	1	UG/KG	07/01/2013	GAP
Chlorobenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Ethylbenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
m,p-Xylene	EPA-8260	U	20	1	UG/KG	07/01/2013	GAP
Styrene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
o-Xylene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Bromoform	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Isopropylbenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,2,3-Trichloropropane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Bromobenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
N-Propyl Benzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
2-Chlorotoluene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,3,5-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
4-Chlorotoluene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
T-Butyl Benzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,2,4-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
S-Butyl Benzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
P-Isopropyltoluene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,3 Dichlorobenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,4-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
N-Butylbenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,2-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	U	50	1	UG/KG	07/01/2013	GAP
1,2,4-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Hexachlorobutadiene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Naphthalene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,2,3-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Naphthalene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
2-Methylnaphthalene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
1-Methylnaphthalene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Acenaphthylene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Acenaphthene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Fluorene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Phenanthrene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/15/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13060128
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-39
<b>CLIENT SAMPLE ID</b>	TP-B01-S (6.5-7.5)	<b>DATE RECEIVED:</b>	6/24/2013
		<b>COLLECTION DATE:</b>	6/21/2013 7:50:00 AM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Anthracene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Fluoranthene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Pyrene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Benzo[A]Anthracene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Chrysene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Benzo[B]Fluoranthene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Benzo[K]Fluoranthene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Benzo[A]Pyrene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Benzo[G,H,I]Perylene	EPA-8270 SIM	U	0.010	1	MG/KG	07/03/2013	LAP
Pyridine	EPA-8270	U	200	1	UG/KG	07/03/2013	LAP
N-Nitrosodimethylamine	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Phenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Aniline	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Bis(2-Chloroethyl)Ether	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2-Chlorophenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
1,3-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
1,4-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Benzyl Alcohol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
1,2-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2-Methylphenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Bis(2-Chloroisopropyl)Ether	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
3&4-Methylphenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
N-Nitroso-Di-N-Propylamine	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Hexachloroethane	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Nitrobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Isophorone	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2-Nitrophenol	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
2,4-Dimethylphenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Benzoic Acid	EPA-8270	U	1000	1	UG/KG	07/03/2013	LAP
Bis(2-Chloroethoxy)Methane	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2,4-Dichlorophenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
1,2,4-Trichlorobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
4-Chloroaniline	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2,6-Dichlorophenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Hexachlorobutadiene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
4-Chloro-3-Methylphenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-39
CLIENT SAMPLE ID	TP-B01-S (6.5-7.5)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/21/2013 7:50:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Hexachlorocyclopentadiene	EPA-8270	U	500	1	UG/KG	07/03/2013	LAP
2,4,6-Trichlorophenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2,4,5-Trichlorophenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2-Chloronaphthalene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2-Nitroaniline	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
Dimethylphthalate	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2,6-Dinitrotoluene	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
3-Nitroaniline	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
2,4-Dinitrophenol	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
4-Nitrophenol	EPA-8270	U	500	1	UG/KG	07/03/2013	LAP
Dibenzofuran	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
2,4-Dinitrotoluene	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
2,3,4,6-Tetrachlorophenol	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
Diethylphthalate	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
4-Chlorophenyl-Phenylether	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
4-Nitroaniline	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
4,6-Dinitro-2-Methylphenol	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
N-Nitrosodiphenylamine	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Azobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
4-Bromophenyl-Phenylether	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Hexachlorobenzene	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Pentachlorophenol	EPA-8270	U	500	1	UG/KG	07/03/2013	LAP
Carbazole	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
Di-N-Butylphthalate	EPA-8270	U	130	1	UG/KG	07/03/2013	LAP
Butylbenzylphthalate	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
3,3-Dichlorobenzidine	EPA-8270	U	250	1	UG/KG	07/03/2013	LAP
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	130	1	UG/KG	07/03/2013	LAP
Di-N-Octylphthalate	EPA-8270	U	100	1	UG/KG	07/03/2013	LAP
PCB-1016	EPA-8082	U	0.10	1	MG/KG	06/28/2013	LAP
PCB-1268	EPA-8082	U	0.10	1	MG/KG	06/28/2013	LAP
PCB-1221	EPA-8082	U	0.10	1	MG/KG	06/28/2013	LAP
PCB-1232	EPA-8082	U	0.10	1	MG/KG	06/28/2013	LAP
PCB-1242	EPA-8082	U	0.10	1	MG/KG	06/28/2013	LAP
PCB-1248	EPA-8082	U	0.10	1	MG/KG	06/28/2013	LAP
PCB-1254	EPA-8082	U	0.10	1	MG/KG	06/28/2013	LAP
PCB-1260	EPA-8082	U	0.10	1	MG/KG	06/28/2013	LAP
Chromium (VI)	EPA-7196	U	5.0	1	MG/KG	06/28/2013	RAL
Mercury	EPA-7471	<b>0.027</b>	0.020	1	MG/KG	07/01/2013	RAL



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-39
CLIENT SAMPLE ID	TP-B01-S (6.5-7.5)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/21/2013 7:50:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Arsenic	EPA-6020	1.9	1.0	5	MG/KG	07/02/2013	RAL
Cadmium	EPA-6020	U	0.50	5	MG/KG	07/02/2013	RAL
Chromium	EPA-6020	11	0.50	5	MG/KG	07/02/2013	RAL
Iron	EPA-6020	21000	50	5	MG/KG	07/02/2013	RAL
Lead	EPA-6020	4.8	0.50	5	MG/KG	07/02/2013	RAL
Manganese	EPA-6020	350	0.50	5	MG/KG	07/02/2013	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	159 GS1	06/25/2013	GAP
C25	NWTPH-DX w/ SGA	98.1	06/27/2013	LAP
1,2-Dichloroethane-d4	EPA-8260	128	07/01/2013	GAP
Toluene-d8	EPA-8260	88.3	07/01/2013	GAP
4-Bromofluorobenzene	EPA-8260	98.2	07/01/2013	GAP
Terphenyl-d14	EPA-8270 SIM	95.5	07/03/2013	LAP
2-Fluorophenol	EPA-8270	118	07/03/2013	LAP
Phenol-d5	EPA-8270	93.9	07/03/2013	LAP
Nitrobenzene-d5	EPA-8270	89.5	07/03/2013	LAP
2-Fluorobiphenyl	EPA-8270	86.4	07/03/2013	LAP
2,4,6-Tribromophenol	EPA-8270	96.8	07/03/2013	LAP
Terphenyl-d14	EPA-8270	95.5	07/03/2013	LAP
TCMX	EPA-8082	83.0	06/28/2013	LAP
DCB	EPA-8082	72.0	06/28/2013	LAP

GS1 - Surrogate outside of control limits due to matrix effect.  
 U - Analyte analyzed for but not detected at level above reporting limit.



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/15/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13060128
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-40
<b>CLIENT SAMPLE ID</b>	TP-B07-S (14-15)	<b>DATE RECEIVED:</b>	6/24/2013
		<b>COLLECTION DATE:</b>	6/21/2013 9:30:00 AM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	U	29	1	MG/KG	06/27/2013	LAP
TPH-Oil Range	NWTPH-DX w/ SGA	76	50	1	MG/KG	06/27/2013	LAP
Dichlorodifluoromethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Chloromethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Vinyl Chloride	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Bromomethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Chloroethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Carbon Tetrachloride	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Trichlorofluoromethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Carbon Disulfide	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Acetone	EPA-8260	U	50	1	UG/KG	07/01/2013	GAP
1,1-Dichloroethene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Methylene Chloride	EPA-8260	U	20	1	UG/KG	07/01/2013	GAP
Acrylonitrile	EPA-8260	U	50	1	UG/KG	07/01/2013	GAP
Methyl T-Butyl Ether	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Trans-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,1-Dichloroethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
2-Butanone	EPA-8260	U	50	1	UG/KG	07/01/2013	GAP
Cis-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
2,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Bromochloromethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Chloroform	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,1,1-Trichloroethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,1-Dichloropropene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,2-Dichloroethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Benzene	EPA-8260	U	5.0	1	UG/KG	07/01/2013	GAP
Trichloroethene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Dibromomethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Bromodichloromethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Trans-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
4-Methyl-2-Pentanone	EPA-8260	U	50	1	UG/KG	07/01/2013	GAP
Toluene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Cis-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,1,2-Trichloroethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
2-Hexanone	EPA-8260	U	50	1	UG/KG	07/01/2013	GAP
1,3-Dichloropropane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Tetrachloroethylene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP





**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-40
CLIENT SAMPLE ID	TP-B07-S (14-15)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/21/2013 9:30:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Dibromochloromethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,2-Dibromoethane	EPA-8260	U	5.0	1	UG/KG	07/01/2013	GAP
Chlorobenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Ethylbenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
m,p-Xylene	EPA-8260	U	20	1	UG/KG	07/01/2013	GAP
Styrene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
o-Xylene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Bromoform	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Isopropylbenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,1,2,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,2,3-Trichloropropane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Bromobenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
N-Propyl Benzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
2-Chlorotoluene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,3,5-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
4-Chlorotoluene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
T-Butyl Benzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,2,4-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
S-Butyl Benzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
P-Isopropyltoluene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,3 Dichlorobenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,4-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
N-Butylbenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,2-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	U	50	1	UG/KG	07/01/2013	GAP
1,2,4-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Hexachlorobutadiene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Naphthalene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,2,3-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Naphthalene	EPA-8270 SIM	0.059	0.010	1	MG/KG	07/05/2013	LAP
2-Methylnaphthalene	EPA-8270 SIM	U	0.010	1	MG/KG	07/05/2013	LAP
1-Methylnaphthalene	EPA-8270 SIM	U	0.010	1	MG/KG	07/05/2013	LAP
Acenaphthylene	EPA-8270 SIM	0.025	0.010	1	MG/KG	07/05/2013	LAP
Acenaphthene	EPA-8270 SIM	U	0.010	1	MG/KG	07/05/2013	LAP
Fluorene	EPA-8270 SIM	U	0.010	1	MG/KG	07/05/2013	LAP
Phenanthrene	EPA-8270 SIM	0.031	0.010	1	MG/KG	07/05/2013	LAP
Anthracene	EPA-8270 SIM	U	0.010	1	MG/KG	07/05/2013	LAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-40
CLIENT SAMPLE ID	TP-B07-S (14-15)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/21/2013 9:30:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Fluoranthene	EPA-8270 SIM	0.045	0.010	1	MG/KG	07/05/2013	LAP
Pyrene	EPA-8270 SIM	0.051	0.010	1	MG/KG	07/05/2013	LAP
Benzo[A]Anthracene	EPA-8270 SIM	0.020	0.010	1	MG/KG	07/05/2013	LAP
Chrysene	EPA-8270 SIM	0.018	0.010	1	MG/KG	07/05/2013	LAP
Benzo[B]Fluoranthene	EPA-8270 SIM	0.016	0.010	1	MG/KG	07/05/2013	LAP
Benzo[K]Fluoranthene	EPA-8270 SIM	0.015	0.010	1	MG/KG	07/05/2013	LAP
Benzo[A]Pyrene	EPA-8270 SIM	0.022	0.010	1	MG/KG	07/05/2013	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	0.016	0.010	1	MG/KG	07/05/2013	LAP
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	0.010	1	MG/KG	07/05/2013	LAP
Benzo[G,H,I]Perylene	EPA-8270 SIM	0.018	0.010	1	MG/KG	07/05/2013	LAP
Pyridine	EPA-8270	U	200	1	UG/KG	07/05/2013	LAP
N-Nitrosodimethylamine	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
Phenol	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
Aniline	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
Bis(2-Chloroethyl)Ether	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
2-Chlorophenol	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
1,3-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
1,4-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
Benzyl Alcohol	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
1,2-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
2-Methylphenol	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
Bis(2-Chloroisopropyl)Ether	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
3&4-Methylphenol	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
N-Nitroso-Di-N-Propylamine	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
Hexachloroethane	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
Nitrobenzene	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
Isophorone	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
2-Nitrophenol	EPA-8270	U	250	1	UG/KG	07/05/2013	LAP
2,4-Dimethylphenol	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
Benzoic Acid	EPA-8270	U	1000	1	UG/KG	07/05/2013	LAP
Bis(2-Chloroethoxy)Methane	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
2,4-Dichlorophenol	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
1,2,4-Trichlorobenzene	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
4-Chloroaniline	EPA-8270	U	110	1	UG/KG	07/05/2013	LAP
2,6-Dichlorophenol	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
Hexachlorobutadiene	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
4-Chloro-3-Methylphenol	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
Hexachlorocyclopentadiene	EPA-8270	U	500	1	UG/KG	07/05/2013	LAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-40
CLIENT SAMPLE ID	TP-B07-S (14-15)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/21/2013 9:30:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
2,4,6-Trichlorophenol	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
2,4,5-Trichlorophenol	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
2-Chloronaphthalene	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
2-Nitroaniline	EPA-8270	U	250	1	UG/KG	07/05/2013	LAP
Dimethylphthalate	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
2,6-Dinitrotoluene	EPA-8270	U	250	1	UG/KG	07/05/2013	LAP
3-Nitroaniline	EPA-8270	U	250	1	UG/KG	07/05/2013	LAP
2,4-Dinitrophenol	EPA-8270	U	250	1	UG/KG	07/05/2013	LAP
4-Nitrophenol	EPA-8270	U	500	1	UG/KG	07/05/2013	LAP
Dibenzofuran	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
2,4-Dinitrotoluene	EPA-8270	U	250	1	UG/KG	07/05/2013	LAP
2,3,4,6-Tetrachlorophenol	EPA-8270	U	250	1	UG/KG	07/05/2013	LAP
Diethylphthalate	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
4-Chlorophenyl-Phenylether	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
4-Nitroaniline	EPA-8270	U	250	1	UG/KG	07/05/2013	LAP
4,6-Dinitro-2-Methylphenol	EPA-8270	U	120	1	UG/KG	07/05/2013	LAP
N-Nitrosodiphenylamine	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
Azobenzene	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
4-Bromophenyl-Phenylether	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
Hexachlorobenzene	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
Pentachlorophenol	EPA-8270	U	500	1	UG/KG	07/05/2013	LAP
Carbazole	EPA-8270	U	110	1	UG/KG	07/05/2013	LAP
Di-N-Butylphthalate	EPA-8270	U	130	1	UG/KG	07/05/2013	LAP
Butylbenzylphthalate	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
3,3-Dichlorobenzidine	EPA-8270	U	270	1	UG/KG	07/05/2013	LAP
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	130	1	UG/KG	07/05/2013	LAP
Di-N-Octylphthalate	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
Mercury	EPA-7471	<b>0.076</b>	0.020	1	MG/KG	07/01/2013	RAL
Arsenic	EPA-6020	<b>3.1</b>	1.2	5	MG/KG	07/02/2013	RAL
Cadmium	EPA-6020	U	0.50	5	MG/KG	07/02/2013	RAL
Chromium	EPA-6020	<b>22</b>	0.60	5	MG/KG	07/02/2013	RAL
Iron	EPA-6020	<b>32000</b>	55	5	MG/KG	07/02/2013	RAL
Lead	EPA-6020	<b>8.0</b>	0.50	5	MG/KG	07/02/2013	RAL
Manganese	EPA-6020	<b>300</b>	0.50	5	MG/KG	07/02/2013	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX w/ SGA	<b>103</b>	06/27/2013	LAP



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/15/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13060128
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-40
<b>CLIENT SAMPLE ID</b>	TP-B07-S (14-15)	<b>DATE RECEIVED:</b>	6/24/2013
		<b>COLLECTION DATE:</b>	6/21/2013 9:30:00 AM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

<b>SURROGATE</b>	<b>METHOD</b>	<b>%REC</b>	<b>ANALYSIS DATE</b>	<b>ANALYSIS BY</b>
1,2-Dichloroethane-d4	EPA-8260	<b>132</b>	07/01/2013	GAP
Toluene-d8	EPA-8260	<b>90.3</b>	07/01/2013	GAP
4-Bromofluorobenzene	EPA-8260	<b>98.7</b>	07/01/2013	GAP
Terphenyl-d14	EPA-8270 SIM	<b>95.8</b>	07/05/2013	LAP
2-Fluorophenol	EPA-8270	<b>116</b>	07/05/2013	LAP
Phenol-d5	EPA-8270	<b>88.1</b>	07/05/2013	LAP
Nitrobenzene-d5	EPA-8270	<b>92.6</b>	07/05/2013	LAP
2-Fluorobiphenyl	EPA-8270	<b>84.3</b>	07/05/2013	LAP
2,4,6-Tribromophenol	EPA-8270	<b>99.4</b>	07/05/2013	LAP
Terphenyl-d14	EPA-8270	<b>95.8</b>	07/05/2013	LAP

U - Analyte analyzed for but not detected at level above reporting limit.  
Chromatogram indicates that it is likely that sample contains light oil/lube oil.



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/15/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13060128
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-41
<b>CLIENT SAMPLE ID</b>	TP-B09-S (13-14)	<b>DATE RECEIVED:</b>	6/24/2013
		<b>COLLECTION DATE:</b>	6/21/2013 10:30:00 AM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	06/25/2013	GAP
TPH-Diesel Range	NWTPH-DX w/ SGA	U	27	1	MG/KG	06/27/2013	LAP
TPH-Oil Range	NWTPH-DX w/ SGA	59	50	1	MG/KG	06/27/2013	LAP
Dichlorodifluoromethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Chloromethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Vinyl Chloride	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Bromomethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Chloroethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Carbon Tetrachloride	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Trichlorofluoromethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Carbon Disulfide	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Acetone	EPA-8260	U	50	1	UG/KG	07/01/2013	GAP
1,1-Dichloroethene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Methylene Chloride	EPA-8260	U	20	1	UG/KG	07/01/2013	GAP
Acrylonitrile	EPA-8260	U	50	1	UG/KG	07/01/2013	GAP
Methyl T-Butyl Ether	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Trans-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,1-Dichloroethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
2-Butanone	EPA-8260	U	50	1	UG/KG	07/01/2013	GAP
Cis-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
2,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Bromochloromethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Chloroform	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,1,1-Trichloroethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,1-Dichloropropene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,2-Dichloroethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Benzene	EPA-8260	U	5.0	1	UG/KG	07/01/2013	GAP
Trichloroethene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Dibromomethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Bromodichloromethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Trans-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
4-Methyl-2-Pentanone	EPA-8260	U	50	1	UG/KG	07/01/2013	GAP
Toluene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Cis-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,1,2-Trichloroethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
2-Hexanone	EPA-8260	U	50	1	UG/KG	07/01/2013	GAP
1,3-Dichloropropane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-41
CLIENT SAMPLE ID	TP-B09-S (13-14)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/21/2013 10:30:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Tetrachloroethylene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Dibromochloromethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,2-Dibromoethane	EPA-8260	U	5.0	1	UG/KG	07/01/2013	GAP
Chlorobenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Ethylbenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
m,p-Xylene	EPA-8260	U	20	1	UG/KG	07/01/2013	GAP
Styrene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
o-Xylene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Bromoform	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Isopropylbenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,2,3-Trichloropropane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Bromobenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
N-Propyl Benzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
2-Chlorotoluene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,3,5-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
4-Chlorotoluene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
T-Butyl Benzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,2,4-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
S-Butyl Benzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
P-Isopropyltoluene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,3 Dichlorobenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,4-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
N-Butylbenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,2-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	U	50	1	UG/KG	07/01/2013	GAP
1,2,4-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Hexachlorobutadiene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Naphthalene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,2,3-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Naphthalene	EPA-8270 SIM	0.070	0.010	1	MG/KG	07/05/2013	LAP
2-Methylnaphthalene	EPA-8270 SIM	0.012	0.010	1	MG/KG	07/05/2013	LAP
1-Methylnaphthalene	EPA-8270 SIM	0.011	0.010	1	MG/KG	07/05/2013	LAP
Acenaphthylene	EPA-8270 SIM	0.032	0.010	1	MG/KG	07/05/2013	LAP
Acenaphthene	EPA-8270 SIM	U	0.010	1	MG/KG	07/05/2013	LAP
Fluorene	EPA-8270 SIM	U	0.010	1	MG/KG	07/05/2013	LAP
Phenanthrene	EPA-8270 SIM	0.040	0.010	1	MG/KG	07/05/2013	LAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-41
CLIENT SAMPLE ID	TP-B09-S (13-14)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/21/2013 10:30:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Anthracene	EPA-8270 SIM	U	0.010	1	MG/KG	07/05/2013	LAP
Fluoranthene	EPA-8270 SIM	0.028	0.010	1	MG/KG	07/05/2013	LAP
Pyrene	EPA-8270 SIM	0.030	0.010	1	MG/KG	07/05/2013	LAP
Benzo[A]Anthracene	EPA-8270 SIM	U	0.010	1	MG/KG	07/05/2013	LAP
Chrysene	EPA-8270 SIM	U	0.010	1	MG/KG	07/05/2013	LAP
Benzo[B]Fluoranthene	EPA-8270 SIM	U	0.010	1	MG/KG	07/05/2013	LAP
Benzo[K]Fluoranthene	EPA-8270 SIM	U	0.010	1	MG/KG	07/05/2013	LAP
Benzo[A]Pyrene	EPA-8270 SIM	U	0.010	1	MG/KG	07/05/2013	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	0.010	1	MG/KG	07/05/2013	LAP
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	0.010	1	MG/KG	07/05/2013	LAP
Benzo[G,H,I]Perylene	EPA-8270 SIM	U	0.010	1	MG/KG	07/05/2013	LAP
Pyridine	EPA-8270	U	200	1	UG/KG	07/05/2013	LAP
N-Nitrosodimethylamine	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
Phenol	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
Aniline	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
Bis(2-Chloroethyl)Ether	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
2-Chlorophenol	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
1,3-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
1,4-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
Benzyl Alcohol	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
1,2-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
2-Methylphenol	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
Bis(2-Chloroisopropyl)Ether	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
3&4-Methylphenol	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
N-Nitroso-Di-N-Propylamine	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
Hexachloroethane	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
Nitrobenzene	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
Isophorone	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
2-Nitrophenol	EPA-8270	U	250	1	UG/KG	07/05/2013	LAP
2,4-Dimethylphenol	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
Benzoic Acid	EPA-8270	U	1000	1	UG/KG	07/05/2013	LAP
Bis(2-Chloroethoxy)Methane	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
2,4-Dichlorophenol	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
1,2,4-Trichlorobenzene	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
4-Chloroaniline	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
2,6-Dichlorophenol	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
Hexachlorobutadiene	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
4-Chloro-3-Methylphenol	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/15/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13060128
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-41
<b>CLIENT SAMPLE ID</b>	TP-B09-S (13-14)	<b>DATE RECEIVED:</b>	6/24/2013
		<b>COLLECTION DATE:</b>	6/21/2013 10:30:00 AM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Hexachlorocyclopentadiene	EPA-8270	U	500	1	UG/KG	07/05/2013	LAP
2,4,6-Trichlorophenol	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
2,4,5-Trichlorophenol	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
2-Chloronaphthalene	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
2-Nitroaniline	EPA-8270	U	250	1	UG/KG	07/05/2013	LAP
Dimethylphthalate	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
2,6-Dinitrotoluene	EPA-8270	U	250	1	UG/KG	07/05/2013	LAP
3-Nitroaniline	EPA-8270	U	250	1	UG/KG	07/05/2013	LAP
2,4-Dinitrophenol	EPA-8270	U	250	1	UG/KG	07/05/2013	LAP
4-Nitrophenol	EPA-8270	U	500	1	UG/KG	07/05/2013	LAP
Dibenzofuran	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
2,4-Dinitrotoluene	EPA-8270	U	250	1	UG/KG	07/05/2013	LAP
2,3,4,6-Tetrachlorophenol	EPA-8270	U	250	1	UG/KG	07/05/2013	LAP
Diethylphthalate	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
4-Chlorophenyl-Phenylether	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
4-Nitroaniline	EPA-8270	U	250	1	UG/KG	07/05/2013	LAP
4,6-Dinitro-2-Methylphenol	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
N-Nitrosodiphenylamine	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
Azobenzene	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
4-Bromophenyl-Phenylether	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
Hexachlorobenzene	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
Pentachlorophenol	EPA-8270	U	500	1	UG/KG	07/05/2013	LAP
Carbazole	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
Di-N-Butylphthalate	EPA-8270	U	130	1	UG/KG	07/05/2013	LAP
Butylbenzylphthalate	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
3,3-Dichlorobenzidine	EPA-8270	U	250	1	UG/KG	07/05/2013	LAP
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	130	1	UG/KG	07/05/2013	LAP
Di-N-Octylphthalate	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
PCB-1016	EPA-8082	U	0.10	1	MG/KG	06/28/2013	LAP
PCB-1268	EPA-8082	U	0.10	1	MG/KG	06/28/2013	LAP
PCB-1221	EPA-8082	U	0.10	1	MG/KG	06/28/2013	LAP
PCB-1232	EPA-8082	U	0.10	1	MG/KG	06/28/2013	LAP
PCB-1242	EPA-8082	U	0.10	1	MG/KG	06/28/2013	LAP
PCB-1248	EPA-8082	U	0.10	1	MG/KG	06/28/2013	LAP
PCB-1254	EPA-8082	U	0.10	1	MG/KG	06/28/2013	LAP
PCB-1260	EPA-8082	U	0.10	1	MG/KG	06/28/2013	LAP
Chromium (VI)	EPA-7196	U	5.0	1	MG/KG	06/28/2013	RAL
Percent Solids	EPA-160.3	71.4	0	1	%	06/26/2013	LAP





**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-41
CLIENT SAMPLE ID	TP-B09-S (13-14)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/21/2013 10:30:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
pH	EPA-9045	6.29	1.00	1	S.U.	06/25/2013	SMR
Mercury	EPA-7471	0.092	0.020	1	MG/KG	07/01/2013	RAL
Arsenic	EPA-6020	2.1	1.0	5	MG/KG	07/02/2013	RAL
Cadmium	EPA-6020	U	0.50	5	MG/KG	07/02/2013	RAL
Chromium	EPA-6020	20	0.52	5	MG/KG	07/02/2013	RAL
Iron	EPA-6020	21000	50	5	MG/KG	07/02/2013	RAL
Lead	EPA-6020	7.7	0.50	5	MG/KG	07/02/2013	RAL
Manganese	EPA-6020	170	0.50	5	MG/KG	07/02/2013	RAL
Total Organic Carbon (TOC)	EPA-9060	4.2	0.10	1	%	07/01/2013	CAS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	71.0	06/25/2013	GAP
C25	NWTPH-DX w/ SGA	83.2	06/27/2013	LAP
1,2-Dichloroethane-d4	EPA-8260	125	07/01/2013	GAP
Toluene-d8	EPA-8260	88.9	07/01/2013	GAP
4-Bromofluorobenzene	EPA-8260	121	07/01/2013	GAP
Terphenyl-d14	EPA-8270 SIM	92.1	07/05/2013	LAP
2-Fluorophenol	EPA-8270	113	07/05/2013	LAP
Phenol-d5	EPA-8270	87.3	07/05/2013	LAP
Nitrobenzene-d5	EPA-8270	88.6	07/05/2013	LAP
2-Fluorobiphenyl	EPA-8270	82.3	07/05/2013	LAP
2,4,6-Tribromophenol	EPA-8270	99.1	07/05/2013	LAP
Terphenyl-d14	EPA-8270	92.1	07/05/2013	LAP
TCMX	EPA-8082	69.0	06/28/2013	LAP
DCB	EPA-8082	59.0	06/28/2013	LAP

U - Analyte analyzed for but not detected at level above reporting limit.  
Chromatogram indicates that it is likely that sample contains light oil/lube oil.



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-42
CLIENT SAMPLE ID	TP-B09-S (6-7)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/21/2013 10:40:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	U	29	1	MG/KG	06/27/2013	LAP
TPH-Oil Range	NWTPH-DX w/ SGA	130	50	1	MG/KG	06/27/2013	LAP
Dichlorodifluoromethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Chloromethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Vinyl Chloride	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Bromomethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Chloroethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Carbon Tetrachloride	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Trichlorofluoromethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Carbon Disulfide	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Acetone	EPA-8260	U	50	1	UG/KG	07/01/2013	GAP
1,1-Dichloroethene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Methylene Chloride	EPA-8260	U	20	1	UG/KG	07/01/2013	GAP
Acrylonitrile	EPA-8260	U	50	1	UG/KG	07/01/2013	GAP
Methyl T-Butyl Ether	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Trans-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,1-Dichloroethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
2-Butanone	EPA-8260	U	50	1	UG/KG	07/01/2013	GAP
Cis-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
2,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Bromochloromethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Chloroform	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,1,1-Trichloroethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,1-Dichloropropene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,2-Dichloroethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Benzene	EPA-8260	U	5.0	1	UG/KG	07/01/2013	GAP
Trichloroethene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Dibromomethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Bromodichloromethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Trans-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
4-Methyl-2-Pentanone	EPA-8260	U	50	1	UG/KG	07/01/2013	GAP
Toluene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Cis-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,1,2-Trichloroethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
2-Hexanone	EPA-8260	U	50	1	UG/KG	07/01/2013	GAP
1,3-Dichloropropane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Tetrachloroethylene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-42
CLIENT SAMPLE ID	TP-B09-S (6-7)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/21/2013 10:40:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Dibromochloromethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,2-Dibromoethane	EPA-8260	U	5.0	1	UG/KG	07/01/2013	GAP
Chlorobenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Ethylbenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
m,p-Xylene	EPA-8260	U	20	1	UG/KG	07/01/2013	GAP
Styrene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
o-Xylene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Bromoform	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Isopropylbenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,1,2,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,2,3-Trichloropropane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Bromobenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
N-Propyl Benzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
2-Chlorotoluene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,3,5-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
4-Chlorotoluene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
T-Butyl Benzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,2,4-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
S-Butyl Benzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
P-Isopropyltoluene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,3 Dichlorobenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,4-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
N-Butylbenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,2-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	U	50	1	UG/KG	07/01/2013	GAP
1,2,4-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Hexachlorobutadiene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Naphthalene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,2,3-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Mercury	EPA-7471	0.055	0.020	1	MG/KG	07/05/2013	RAL
Arsenic	EPA-6020	4.5	1.1	5	MG/KG	07/08/2013	RAL
Cadmium	EPA-6020	U	0.50	5	MG/KG	07/08/2013	RAL
Chromium	EPA-6020	22	0.56	5	MG/KG	07/08/2013	RAL
Iron	EPA-6020	28000	51	5	MG/KG	07/08/2013	RAL
Lead	EPA-6020	32	0.50	5	MG/KG	07/08/2013	RAL
Manganese	EPA-6020	430	0.50	5	MG/KG	07/08/2013	RAL



CERTIFICATE OF ANALYSIS

CLIENT: Landau Associates, Inc. DATE: 7/15/2013  
130 - 2nd Ave. S. ALS JOB#: EV13060128  
Edmonds, WA 98020 ALS SAMPLE#: -42  
CLIENT CONTACT: Jeffrey Fellows DATE RECEIVED: 6/24/2013  
CLIENT PROJECT: Yakima Mill Site / #1148007.010 COLLECTION DATE: 6/21/2013 10:40:00 AM  
CLIENT SAMPLE ID TP-B09-S (6-7) WDOE ACCREDITATION: C601

DATA RESULTS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX w/ SGA	121	06/27/2013	LAP
1,2-Dichloroethane-d4	EPA-8260	135	07/01/2013	GAP
Toluene-d8	EPA-8260	102	07/01/2013	GAP
4-Bromofluorobenzene	EPA-8260	129 GS1	07/01/2013	GAP

GS1 - Surrogate outside of control limits due to matrix effect.  
U - Analyte analyzed for but not detected at level above reporting limit.  
Chromatogram indicates that it is likely that sample contains light oil/lube oil.



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-43
CLIENT SAMPLE ID	TP-B08-S (16-17.5)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/21/2013 12:05:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	06/25/2013	GAP
TPH-Diesel Range	NWTPH-DX w/ SGA	360	25	1	MG/KG	06/27/2013	LAP
TPH-Oil Range	NWTPH-DX w/ SGA	U	50	1	MG/KG	06/27/2013	LAP
Dichlorodifluoromethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Chloromethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Vinyl Chloride	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Bromomethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Chloroethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Carbon Tetrachloride	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Trichlorofluoromethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Carbon Disulfide	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Acetone	EPA-8260	U	50	1	UG/KG	07/01/2013	GAP
1,1-Dichloroethene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Methylene Chloride	EPA-8260	U	20	1	UG/KG	07/01/2013	GAP
Acrylonitrile	EPA-8260	U	50	1	UG/KG	07/01/2013	GAP
Methyl T-Butyl Ether	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Trans-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,1-Dichloroethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
2-Butanone	EPA-8260	U	50	1	UG/KG	07/01/2013	GAP
Cis-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
2,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Bromochloromethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Chloroform	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,1,1-Trichloroethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,1-Dichloropropene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,2-Dichloroethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Benzene	EPA-8260	U	5.0	1	UG/KG	07/01/2013	GAP
Trichloroethene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Dibromomethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Bromodichloromethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Trans-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
4-Methyl-2-Pentanone	EPA-8260	U	50	1	UG/KG	07/01/2013	GAP
Toluene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Cis-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,1,2-Trichloroethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
2-Hexanone	EPA-8260	U	50	1	UG/KG	07/01/2013	GAP
1,3-Dichloropropane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-43
CLIENT SAMPLE ID	TP-B08-S (16-17.5)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/21/2013 12:05:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Tetrachloroethylene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Dibromochloromethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,2-Dibromoethane	EPA-8260	U	5.0	1	UG/KG	07/01/2013	GAP
Chlorobenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Ethylbenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
m,p-Xylene	EPA-8260	U	20	1	UG/KG	07/01/2013	GAP
Styrene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
o-Xylene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Bromoform	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Isopropylbenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,2,3-Trichloropropane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Bromobenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
N-Propyl Benzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
2-Chlorotoluene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,3,5-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
4-Chlorotoluene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
T-Butyl Benzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,2,4-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
S-Butyl Benzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
P-Isopropyltoluene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,3 Dichlorobenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,4-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
N-Butylbenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,2-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	U	50	1	UG/KG	07/01/2013	GAP
1,2,4-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Hexachlorobutadiene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Naphthalene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,2,3-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Naphthalene	EPA-8270 SIM	0.021	0.010	1	MG/KG	07/05/2013	LAP
2-Methylnaphthalene	EPA-8270 SIM	U	0.010	1	MG/KG	07/05/2013	LAP
1-Methylnaphthalene	EPA-8270 SIM	U	0.010	1	MG/KG	07/05/2013	LAP
Acenaphthylene	EPA-8270 SIM	U	0.010	1	MG/KG	07/05/2013	LAP
Acenaphthene	EPA-8270 SIM	U	0.010	1	MG/KG	07/05/2013	LAP
Fluorene	EPA-8270 SIM	U	0.010	1	MG/KG	07/05/2013	LAP
Phenanthrene	EPA-8270 SIM	0.013	0.010	1	MG/KG	07/05/2013	LAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-43
CLIENT SAMPLE ID	TP-B08-S (16-17.5)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/21/2013 12:05:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Anthracene	EPA-8270 SIM	U	0.010	1	MG/KG	07/05/2013	LAP
Fluoranthene	EPA-8270 SIM	0.010	0.010	1	MG/KG	07/05/2013	LAP
Pyrene	EPA-8270 SIM	0.012	0.010	1	MG/KG	07/05/2013	LAP
Benzo[A]Anthracene	EPA-8270 SIM	U	0.010	1	MG/KG	07/05/2013	LAP
Chrysene	EPA-8270 SIM	U	0.010	1	MG/KG	07/05/2013	LAP
Benzo[B]Fluoranthene	EPA-8270 SIM	U	0.010	1	MG/KG	07/05/2013	LAP
Benzo[K]Fluoranthene	EPA-8270 SIM	U	0.010	1	MG/KG	07/05/2013	LAP
Benzo[A]Pyrene	EPA-8270 SIM	U	0.010	1	MG/KG	07/05/2013	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	0.010	1	MG/KG	07/05/2013	LAP
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	0.010	1	MG/KG	07/05/2013	LAP
Benzo[G,H,I]Perylene	EPA-8270 SIM	U	0.010	1	MG/KG	07/05/2013	LAP
Pyridine	EPA-8270	U	200	1	UG/KG	07/05/2013	LAP
N-Nitrosodimethylamine	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
Phenol	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
Aniline	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
Bis(2-Chloroethyl)Ether	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
2-Chlorophenol	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
1,3-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
1,4-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
Benzyl Alcohol	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
1,2-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
2-Methylphenol	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
Bis(2-Chloroisopropyl)Ether	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
3&4-Methylphenol	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
N-Nitroso-Di-N-Propylamine	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
Hexachloroethane	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
Nitrobenzene	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
Isophorone	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
2-Nitrophenol	EPA-8270	U	250	1	UG/KG	07/05/2013	LAP
2,4-Dimethylphenol	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
Benzoic Acid	EPA-8270	U	1000	1	UG/KG	07/05/2013	LAP
Bis(2-Chloroethoxy)Methane	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
2,4-Dichlorophenol	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
1,2,4-Trichlorobenzene	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
4-Chloroaniline	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
2,6-Dichlorophenol	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
Hexachlorobutadiene	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
4-Chloro-3-Methylphenol	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-43
CLIENT SAMPLE ID	TP-B08-S (16-17.5)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/21/2013 12:05:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Hexachlorocyclopentadiene	EPA-8270	U	500	1	UG/KG	07/05/2013	LAP
2,4,6-Trichlorophenol	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
2,4,5-Trichlorophenol	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
2-Chloronaphthalene	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
2-Nitroaniline	EPA-8270	U	250	1	UG/KG	07/05/2013	LAP
Dimethylphthalate	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
2,6-Dinitrotoluene	EPA-8270	U	250	1	UG/KG	07/05/2013	LAP
3-Nitroaniline	EPA-8270	U	250	1	UG/KG	07/05/2013	LAP
2,4-Dinitrophenol	EPA-8270	U	250	1	UG/KG	07/05/2013	LAP
4-Nitrophenol	EPA-8270	U	500	1	UG/KG	07/05/2013	LAP
Dibenzofuran	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
2,4-Dinitrotoluene	EPA-8270	U	250	1	UG/KG	07/05/2013	LAP
2,3,4,6-Tetrachlorophenol	EPA-8270	U	250	1	UG/KG	07/05/2013	LAP
Diethylphthalate	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
4-Chlorophenyl-Phenylether	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
4-Nitroaniline	EPA-8270	U	250	1	UG/KG	07/05/2013	LAP
4,6-Dinitro-2-Methylphenol	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
N-Nitrosodiphenylamine	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
Azobenzene	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
4-Bromophenyl-Phenylether	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
Hexachlorobenzene	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
Pentachlorophenol	EPA-8270	U	500	1	UG/KG	07/05/2013	LAP
Carbazole	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
Di-N-Butylphthalate	EPA-8270	U	130	1	UG/KG	07/05/2013	LAP
Butylbenzylphthalate	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
3,3-Dichlorobenzidine	EPA-8270	U	250	1	UG/KG	07/05/2013	LAP
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	130	1	UG/KG	07/05/2013	LAP
Di-N-Octylphthalate	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
PCB-1016	EPA-8082	U	0.10	1	MG/KG	06/28/2013	LAP
PCB-1268	EPA-8082	U	0.10	1	MG/KG	06/28/2013	LAP
PCB-1221	EPA-8082	U	0.10	1	MG/KG	06/28/2013	LAP
PCB-1232	EPA-8082	U	0.10	1	MG/KG	06/28/2013	LAP
PCB-1242	EPA-8082	U	0.10	1	MG/KG	06/28/2013	LAP
PCB-1248	EPA-8082	U	0.10	1	MG/KG	06/28/2013	LAP
PCB-1254	EPA-8082	U	0.10	1	MG/KG	06/28/2013	LAP
PCB-1260	EPA-8082	U	0.10	1	MG/KG	06/28/2013	LAP
Mercury	EPA-7471	<b>0.085</b>	0.020	1	MG/KG	07/05/2013	RAL
Arsenic	EPA-6020	<b>2.5</b>	1.0	5	MG/KG	07/08/2013	RAL





**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-43
CLIENT SAMPLE ID	TP-B08-S (16-17.5)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/21/2013 12:05:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Cadmium	EPA-6020	U	0.50	5	MG/KG	07/08/2013	RAL
Chromium	EPA-6020	16	0.50	5	MG/KG	07/08/2013	RAL
Iron	EPA-6020	24000	50	5	MG/KG	07/08/2013	RAL
Lead	EPA-6020	4.9	0.50	5	MG/KG	07/08/2013	RAL
Manganese	EPA-6020	250	0.50	5	MG/KG	07/08/2013	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	107	06/25/2013	GAP
C25	NWTPH-DX w/ SGA	125	06/27/2013	LAP
1,2-Dichloroethane-d4	EPA-8260	134	07/01/2013	GAP
Toluene-d8	EPA-8260	91.6	07/01/2013	GAP
4-Bromofluorobenzene	EPA-8260	101	07/01/2013	GAP
Terphenyl-d14	EPA-8270 SIM	86.5	07/05/2013	LAP
2-Fluorophenol	EPA-8270	107	07/05/2013	LAP
Phenol-d5	EPA-8270	80.2	07/05/2013	LAP
Nitrobenzene-d5	EPA-8270	83.7	07/05/2013	LAP
2-Fluorobiphenyl	EPA-8270	75.6	07/05/2013	LAP
2,4,6-Tribromophenol	EPA-8270	90.8	07/05/2013	LAP
Terphenyl-d14	EPA-8270	86.5	07/05/2013	LAP
TCMX	EPA-8082	87.0	06/28/2013	LAP
DCB	EPA-8082	72.0	06/28/2013	LAP

U - Analyte analyzed for but not detected at level above reporting limit.  
Chromatogram indicates that it is likely that sample contains highly weathered diesel.



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-44
CLIENT SAMPLE ID	TP-B08-S (7-8)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/21/2013 12:30:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	17	3.0	1	MG/KG	06/25/2013	GAP
TPH-Diesel Range	NWTPH-DX w/ SGA	U	25	1	MG/KG	06/26/2013	LAP
TPH-Oil Range	NWTPH-DX w/ SGA	180	50	1	MG/KG	06/26/2013	LAP
Mercury	EPA-7471	0.038	0.020	1	MG/KG	07/05/2013	RAL
Arsenic	EPA-6020	2.7	1.0	5	MG/KG	07/08/2013	RAL
Cadmium	EPA-6020	U	0.50	5	MG/KG	07/08/2013	RAL
Chromium	EPA-6020	13	0.50	5	MG/KG	07/08/2013	RAL
Iron	EPA-6020	16000	50	5	MG/KG	07/08/2013	RAL
Lead	EPA-6020	6.9	0.50	5	MG/KG	07/08/2013	RAL
Manganese	EPA-6020	260	0.50	5	MG/KG	07/08/2013	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	136	06/25/2013	GAP
C25	NWTPH-DX w/ SGA	110	06/26/2013	LAP

U - Analyte analyzed for but not detected at level above reporting limit.  
Chromatogram indicates that it is likely that sample contains weathered gasoline and light oil/lube oil.



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-45
CLIENT SAMPLE ID	FPP-B17-S (16-17)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/21/2013 1:55:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	06/25/2013	GAP
TPH-Diesel Range	NWTPH-DX w/ SGA	U	25	1	MG/KG	06/27/2013	LAP
TPH-Oil Range	NWTPH-DX w/ SGA	88	50	1	MG/KG	06/27/2013	LAP
Dichlorodifluoromethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Chloromethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Vinyl Chloride	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Bromomethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Chloroethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Carbon Tetrachloride	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Trichlorofluoromethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Carbon Disulfide	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Acetone	EPA-8260	U	50	1	UG/KG	07/01/2013	GAP
1,1-Dichloroethene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Methylene Chloride	EPA-8260	U	20	1	UG/KG	07/01/2013	GAP
Acrylonitrile	EPA-8260	U	50	1	UG/KG	07/01/2013	GAP
Methyl T-Butyl Ether	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Trans-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,1-Dichloroethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
2-Butanone	EPA-8260	U	50	1	UG/KG	07/01/2013	GAP
Cis-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
2,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Bromochloromethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Chloroform	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,1,1-Trichloroethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,1-Dichloropropene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,2-Dichloroethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Benzene	EPA-8260	U	5.0	1	UG/KG	07/01/2013	GAP
Trichloroethene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Dibromomethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Bromodichloromethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Trans-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
4-Methyl-2-Pentanone	EPA-8260	U	50	1	UG/KG	07/01/2013	GAP
Toluene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Cis-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,1,2-Trichloroethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
2-Hexanone	EPA-8260	U	50	1	UG/KG	07/01/2013	GAP
1,3-Dichloropropane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-45
CLIENT SAMPLE ID	FPP-B17-S (16-17)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/21/2013 1:55:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Tetrachloroethylene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Dibromochloromethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,2-Dibromoethane	EPA-8260	U	5.0	1	UG/KG	07/01/2013	GAP
Chlorobenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Ethylbenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
m,p-Xylene	EPA-8260	U	20	1	UG/KG	07/01/2013	GAP
Styrene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
o-Xylene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Bromoform	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Isopropylbenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,2,3-Trichloropropane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Bromobenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
N-Propyl Benzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
2-Chlorotoluene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,3,5-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
4-Chlorotoluene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
T-Butyl Benzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,2,4-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
S-Butyl Benzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
P-Isopropyltoluene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,3 Dichlorobenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,4-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
N-Butylbenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,2-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	U	50	1	UG/KG	07/01/2013	GAP
1,2,4-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Hexachlorobutadiene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Naphthalene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,2,3-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Naphthalene	EPA-8270 SIM	0.030	0.010	1	MG/KG	07/05/2013	LAP
2-Methylnaphthalene	EPA-8270 SIM	U	0.010	1	MG/KG	07/05/2013	LAP
1-Methylnaphthalene	EPA-8270 SIM	U	0.010	1	MG/KG	07/05/2013	LAP
Acenaphthylene	EPA-8270 SIM	0.011	0.010	1	MG/KG	07/05/2013	LAP
Acenaphthene	EPA-8270 SIM	U	0.010	1	MG/KG	07/05/2013	LAP
Fluorene	EPA-8270 SIM	U	0.010	1	MG/KG	07/05/2013	LAP
Phenanthrene	EPA-8270 SIM	0.018	0.010	1	MG/KG	07/05/2013	LAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-45
CLIENT SAMPLE ID	FPP-B17-S (16-17)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/21/2013 1:55:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Anthracene	EPA-8270 SIM	U	0.010	1	MG/KG	07/05/2013	LAP
Fluoranthene	EPA-8270 SIM	0.016	0.010	1	MG/KG	07/05/2013	LAP
Pyrene	EPA-8270 SIM	0.020	0.010	1	MG/KG	07/05/2013	LAP
Benzo[A]Anthracene	EPA-8270 SIM	U	0.010	1	MG/KG	07/05/2013	LAP
Chrysene	EPA-8270 SIM	U	0.010	1	MG/KG	07/05/2013	LAP
Benzo[B]Fluoranthene	EPA-8270 SIM	U	0.010	1	MG/KG	07/05/2013	LAP
Benzo[K]Fluoranthene	EPA-8270 SIM	U	0.010	1	MG/KG	07/05/2013	LAP
Benzo[A]Pyrene	EPA-8270 SIM	U	0.010	1	MG/KG	07/05/2013	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	0.010	1	MG/KG	07/05/2013	LAP
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	0.010	1	MG/KG	07/05/2013	LAP
Benzo[G,H,I]Perylene	EPA-8270 SIM	U	0.010	1	MG/KG	07/05/2013	LAP
Pyridine	EPA-8270	U	200	1	UG/KG	07/05/2013	LAP
N-Nitrosodimethylamine	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
Phenol	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
Aniline	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
Bis(2-Chloroethyl)Ether	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
2-Chlorophenol	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
1,3-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
1,4-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
Benzyl Alcohol	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
1,2-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
2-Methylphenol	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
Bis(2-Chloroisopropyl)Ether	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
3&4-Methylphenol	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
N-Nitroso-Di-N-Propylamine	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
Hexachloroethane	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
Nitrobenzene	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
Isophorone	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
2-Nitrophenol	EPA-8270	U	250	1	UG/KG	07/05/2013	LAP
2,4-Dimethylphenol	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
Benzoic Acid	EPA-8270	U	1000	1	UG/KG	07/05/2013	LAP
Bis(2-Chloroethoxy)Methane	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
2,4-Dichlorophenol	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
1,2,4-Trichlorobenzene	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
4-Chloroaniline	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
2,6-Dichlorophenol	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
Hexachlorobutadiene	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
4-Chloro-3-Methylphenol	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-45
CLIENT SAMPLE ID	FPP-B17-S (16-17)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/21/2013 1:55:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Hexachlorocyclopentadiene	EPA-8270	U	500	1	UG/KG	07/05/2013	LAP
2,4,6-Trichlorophenol	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
2,4,5-Trichlorophenol	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
2-Chloronaphthalene	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
2-Nitroaniline	EPA-8270	U	250	1	UG/KG	07/05/2013	LAP
Dimethylphthalate	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
2,6-Dinitrotoluene	EPA-8270	U	250	1	UG/KG	07/05/2013	LAP
3-Nitroaniline	EPA-8270	U	250	1	UG/KG	07/05/2013	LAP
2,4-Dinitrophenol	EPA-8270	U	250	1	UG/KG	07/05/2013	LAP
4-Nitrophenol	EPA-8270	U	500	1	UG/KG	07/05/2013	LAP
Dibenzofuran	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
2,4-Dinitrotoluene	EPA-8270	U	250	1	UG/KG	07/05/2013	LAP
2,3,4,6-Tetrachlorophenol	EPA-8270	U	250	1	UG/KG	07/05/2013	LAP
Diethylphthalate	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
4-Chlorophenyl-Phenylether	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
4-Nitroaniline	EPA-8270	U	250	1	UG/KG	07/05/2013	LAP
4,6-Dinitro-2-Methylphenol	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
N-Nitrosodiphenylamine	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
Azobenzene	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
4-Bromophenyl-Phenylether	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
Hexachlorobenzene	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
Pentachlorophenol	EPA-8270	U	500	1	UG/KG	07/05/2013	LAP
Carbazole	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
Di-N-Butylphthalate	EPA-8270	U	130	1	UG/KG	07/05/2013	LAP
Butylbenzylphthalate	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
3,3-Dichlorobenzidine	EPA-8270	U	250	1	UG/KG	07/05/2013	LAP
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	130	1	UG/KG	07/05/2013	LAP
Di-N-Octylphthalate	EPA-8270	U	100	1	UG/KG	07/05/2013	LAP
Mercury	EPA-7471	<b>0.047</b>	0.020	1	MG/KG	07/05/2013	RAL
Arsenic	EPA-6020	<b>2.1</b>	1.0	5	MG/KG	07/08/2013	RAL
Cadmium	EPA-6020	U	0.50	5	MG/KG	07/08/2013	RAL
Chromium	EPA-6020	<b>19</b>	0.50	5	MG/KG	07/08/2013	RAL
Iron	EPA-6020	<b>23000</b>	50	5	MG/KG	07/08/2013	RAL
Lead	EPA-6020	<b>5.0</b>	0.50	5	MG/KG	07/08/2013	RAL
Manganese	EPA-6020	<b>240</b>	0.50	5	MG/KG	07/08/2013	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
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**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-45
CLIENT SAMPLE ID	FPP-B17-S (16-17)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/21/2013 1:55:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

SURROGATE	METHOD	%REC	ANALYSIS	ANALYSIS
			DATE	BY
TFT	NWTPH-GX	89.1	06/25/2013	GAP
C25	NWTPH-DX w/ SGA	102	06/27/2013	LAP
1,2-Dichloroethane-d4	EPA-8260	133	07/01/2013	GAP
Toluene-d8	EPA-8260	88.7	07/01/2013	GAP
4-Bromofluorobenzene	EPA-8260	96.4	07/01/2013	GAP
Terphenyl-d14	EPA-8270 SIM	92.6	07/05/2013	LAP
2-Fluorophenol	EPA-8270	108	07/05/2013	LAP
Phenol-d5	EPA-8270	82.6	07/05/2013	LAP
Nitrobenzene-d5	EPA-8270	86.6	07/05/2013	LAP
2-Fluorobiphenyl	EPA-8270	80.5	07/05/2013	LAP
2,4,6-Tribromophenol	EPA-8270	97.0	07/05/2013	LAP
Terphenyl-d14	EPA-8270	92.6	07/05/2013	LAP

U - Analyte analyzed for but not detected at level above reporting limit.  
Chromatogram indicates that it is likely that sample contains light oil/lube oil.



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-46
CLIENT SAMPLE ID	FPP-B17-S (0.5-1.5)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/21/2013 2:05:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	U	25	1	MG/KG	06/26/2013	LAP
TPH-Oil Range	NWTPH-DX w/ SGA	87	50	1	MG/KG	06/26/2013	LAP
Mercury	EPA-7471	0.055	0.020	1	MG/KG	07/05/2013	RAL
Arsenic	EPA-6020	2.5	1.0	5	MG/KG	07/08/2013	RAL
Cadmium	EPA-6020	U	0.50	5	MG/KG	07/08/2013	RAL
Chromium	EPA-6020	21	0.50	5	MG/KG	07/08/2013	RAL
Iron	EPA-6020	27000	50	5	MG/KG	07/08/2013	RAL
Lead	EPA-6020	10	0.50	5	MG/KG	07/08/2013	RAL
Manganese	EPA-6020	320	0.50	5	MG/KG	07/08/2013	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX w/ SGA	99.9	06/26/2013	LAP

U - Analyte analyzed for but not detected at level above reporting limit.  
 Chromatogram indicates that it is likely that sample contains light oil/lube oil.





**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-47
CLIENT SAMPLE ID	TP-B01-S (1-2)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/21/2013 8:00:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	U	25	1	MG/KG	06/26/2013	LAP
TPH-Oil Range	NWTPH-DX w/ SGA	57	50	1	MG/KG	06/26/2013	LAP
Naphthalene	EPA-8270 SIM	U	0.010	1	MG/KG	07/06/2013	LAP
2-Methylnaphthalene	EPA-8270 SIM	U	0.010	1	MG/KG	07/06/2013	LAP
1-Methylnaphthalene	EPA-8270 SIM	U	0.010	1	MG/KG	07/06/2013	LAP
Acenaphthylene	EPA-8270 SIM	U	0.010	1	MG/KG	07/06/2013	LAP
Acenaphthene	EPA-8270 SIM	U	0.010	1	MG/KG	07/06/2013	LAP
Fluorene	EPA-8270 SIM	U	0.010	1	MG/KG	07/06/2013	LAP
Phenanthrene	EPA-8270 SIM	0.011	0.010	1	MG/KG	07/06/2013	LAP
Anthracene	EPA-8270 SIM	U	0.010	1	MG/KG	07/06/2013	LAP
Fluoranthene	EPA-8270 SIM	0.012	0.010	1	MG/KG	07/06/2013	LAP
Pyrene	EPA-8270 SIM	0.016	0.010	1	MG/KG	07/06/2013	LAP
Benzo[A]Anthracene	EPA-8270 SIM	U	0.010	1	MG/KG	07/06/2013	LAP
Chrysene	EPA-8270 SIM	U	0.010	1	MG/KG	07/06/2013	LAP
Benzo[B]Fluoranthene	EPA-8270 SIM	0.014	0.010	1	MG/KG	07/06/2013	LAP
Benzo[K]Fluoranthene	EPA-8270 SIM	U	0.010	1	MG/KG	07/06/2013	LAP
Benzo[A]Pyrene	EPA-8270 SIM	U	0.010	1	MG/KG	07/06/2013	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	0.018	0.010	1	MG/KG	07/06/2013	LAP
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	0.010	1	MG/KG	07/06/2013	LAP
Benzo[G,H,I]Perylene	EPA-8270 SIM	0.028	0.010	1	MG/KG	07/06/2013	LAP
Pyridine	EPA-8270	U	200	1	UG/KG	07/06/2013	LAP
N-Nitrosodimethylamine	EPA-8270	U	100	1	UG/KG	07/06/2013	LAP
Phenol	EPA-8270	U	100	1	UG/KG	07/06/2013	LAP
Aniline	EPA-8270	U	100	1	UG/KG	07/06/2013	LAP
Bis(2-Chloroethyl)Ether	EPA-8270	U	100	1	UG/KG	07/06/2013	LAP
2-Chlorophenol	EPA-8270	U	100	1	UG/KG	07/06/2013	LAP
1,3-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	07/06/2013	LAP
1,4-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	07/06/2013	LAP
Benzyl Alcohol	EPA-8270	U	100	1	UG/KG	07/06/2013	LAP
1,2-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	07/06/2013	LAP
2-Methylphenol	EPA-8270	U	100	1	UG/KG	07/06/2013	LAP
Bis(2-Chloroisopropyl)Ether	EPA-8270	U	100	1	UG/KG	07/06/2013	LAP
3&4-Methylphenol	EPA-8270	U	100	1	UG/KG	07/06/2013	LAP
N-Nitroso-Di-N-Propylamine	EPA-8270	U	100	1	UG/KG	07/06/2013	LAP
Hexachloroethane	EPA-8270	U	100	1	UG/KG	07/06/2013	LAP
Nitrobenzene	EPA-8270	U	100	1	UG/KG	07/06/2013	LAP
Isophorone	EPA-8270	U	100	1	UG/KG	07/06/2013	LAP
2-Nitrophenol	EPA-8270	U	250	1	UG/KG	07/06/2013	LAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-47
CLIENT SAMPLE ID	TP-B01-S (1-2)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/21/2013 8:00:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
2,4-Dimethylphenol	EPA-8270	U	100	1	UG/KG	07/06/2013	LAP
Benzoic Acid	EPA-8270	U	1000	1	UG/KG	07/06/2013	LAP
Bis(2-Chloroethoxy)Methane	EPA-8270	U	100	1	UG/KG	07/06/2013	LAP
2,4-Dichlorophenol	EPA-8270	U	100	1	UG/KG	07/06/2013	LAP
1,2,4-Trichlorobenzene	EPA-8270	U	100	1	UG/KG	07/06/2013	LAP
4-Chloroaniline	EPA-8270	U	100	1	UG/KG	07/06/2013	LAP
2,6-Dichlorophenol	EPA-8270	U	100	1	UG/KG	07/06/2013	LAP
Hexachlorobutadiene	EPA-8270	U	100	1	UG/KG	07/06/2013	LAP
4-Chloro-3-Methylphenol	EPA-8270	U	100	1	UG/KG	07/06/2013	LAP
Hexachlorocyclopentadiene	EPA-8270	U	500	1	UG/KG	07/06/2013	LAP
2,4,6-Trichlorophenol	EPA-8270	U	100	1	UG/KG	07/06/2013	LAP
2,4,5-Trichlorophenol	EPA-8270	U	100	1	UG/KG	07/06/2013	LAP
2-Chloronaphthalene	EPA-8270	U	100	1	UG/KG	07/06/2013	LAP
2-Nitroaniline	EPA-8270	U	250	1	UG/KG	07/06/2013	LAP
Dimethylphthalate	EPA-8270	U	100	1	UG/KG	07/06/2013	LAP
2,6-Dinitrotoluene	EPA-8270	U	250	1	UG/KG	07/06/2013	LAP
3-Nitroaniline	EPA-8270	U	250	1	UG/KG	07/06/2013	LAP
2,4-Dinitrophenol	EPA-8270	U	250	1	UG/KG	07/06/2013	LAP
4-Nitrophenol	EPA-8270	U	500	1	UG/KG	07/06/2013	LAP
Dibenzofuran	EPA-8270	U	100	1	UG/KG	07/06/2013	LAP
2,4-Dinitrotoluene	EPA-8270	U	250	1	UG/KG	07/06/2013	LAP
2,3,4,6-Tetrachlorophenol	EPA-8270	U	250	1	UG/KG	07/06/2013	LAP
Diethylphthalate	EPA-8270	U	100	1	UG/KG	07/06/2013	LAP
4-Chlorophenyl-Phenylether	EPA-8270	U	100	1	UG/KG	07/06/2013	LAP
4-Nitroaniline	EPA-8270	U	250	1	UG/KG	07/06/2013	LAP
4,6-Dinitro-2-Methylphenol	EPA-8270	U	100	1	UG/KG	07/06/2013	LAP
N-Nitrosodiphenylamine	EPA-8270	U	100	1	UG/KG	07/06/2013	LAP
Azobenzene	EPA-8270	U	100	1	UG/KG	07/06/2013	LAP
4-Bromophenyl-Phenylether	EPA-8270	U	100	1	UG/KG	07/06/2013	LAP
Hexachlorobenzene	EPA-8270	U	100	1	UG/KG	07/06/2013	LAP
Pentachlorophenol	EPA-8270	U	500	1	UG/KG	07/06/2013	LAP
Carbazole	EPA-8270	U	100	1	UG/KG	07/06/2013	LAP
Di-N-Butylphthalate	EPA-8270	U	130	1	UG/KG	07/06/2013	LAP
Butylbenzylphthalate	EPA-8270	U	100	1	UG/KG	07/06/2013	LAP
3,3-Dichlorobenzidine	EPA-8270	U	250	1	UG/KG	07/06/2013	LAP
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	130	1	UG/KG	07/06/2013	LAP
Di-N-Octylphthalate	EPA-8270	U	100	1	UG/KG	07/06/2013	LAP
Mercury	EPA-7471	0.12	0.020	1	MG/KG	07/05/2013	RAL



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-47
CLIENT SAMPLE ID	TP-B01-S (1-2)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/21/2013 8:00:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Arsenic	EPA-6020	3.7	1.0	5	MG/KG	07/08/2013	RAL
Cadmium	EPA-6020	U	0.50	5	MG/KG	07/08/2013	RAL
Chromium	EPA-6020	17	0.50	5	MG/KG	07/08/2013	RAL
Iron	EPA-6020	29000	50	5	MG/KG	07/08/2013	RAL
Lead	EPA-6020	20	0.50	5	MG/KG	07/08/2013	RAL
Manganese	EPA-6020	530	0.50	5	MG/KG	07/08/2013	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX w/ SGA	90.6	06/26/2013	LAP
Terphenyl-d14	EPA-8270 SIM	85.2	07/06/2013	LAP
2-Fluorophenol	EPA-8270	96.2	07/06/2013	LAP
Phenol-d5	EPA-8270	74.3	07/06/2013	LAP
Nitrobenzene-d5	EPA-8270	79.7	07/06/2013	LAP
2-Fluorobiphenyl	EPA-8270	74.2	07/06/2013	LAP
2,4,6-Tribromophenol	EPA-8270	84.7	07/06/2013	LAP
Terphenyl-d14	EPA-8270	85.2	07/06/2013	LAP

U - Analyte analyzed for but not detected at level above reporting limit.  
Chromatogram indicates that it is likely that sample contains light oil/lube oil.



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-48
CLIENT SAMPLE ID	FPP-B11-S (22-23)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/18/2013 9:00:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	U	25	1	MG/KG	06/26/2013	LAP
TPH-Oil Range	NWTPH-DX w/ SGA	U	50	1	MG/KG	06/26/2013	LAP
Mercury	EPA-7471	0.040	0.020	1	MG/KG	07/05/2013	RAL
Arsenic	EPA-6020	1.4	1.0	5	MG/KG	07/08/2013	RAL
Cadmium	EPA-6020	U	0.50	5	MG/KG	07/08/2013	RAL
Chromium	EPA-6020	11	0.50	5	MG/KG	07/08/2013	RAL
Iron	EPA-6020	20000	50	5	MG/KG	07/08/2013	RAL
Lead	EPA-6020	2.9	0.50	5	MG/KG	07/08/2013	RAL
Manganese	EPA-6020	220	0.50	5	MG/KG	07/08/2013	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX w/ SGA	91.1	06/26/2013	LAP

U - Analyte analyzed for but not detected at level above reporting limit.



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/15/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13060128
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-49
<b>CLIENT SAMPLE ID</b>	FPP-B19-GW (17)	<b>DATE RECEIVED:</b>	6/24/2013
		<b>COLLECTION DATE:</b>	6/19/2013 5:30:00 PM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	50	1	UG/L	06/24/2013	DLC
Vinyl Chloride	EPA-8260 SIM	U	0.020	1	UG/L	06/28/2013	GAP
Trichloroethene	EPA-8260 SIM	U	0.020	1	UG/L	06/28/2013	GAP
Dichlorodifluoromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Chloromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromomethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Chloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Carbon Disulfide	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Acetone	EPA-8260	U	25	1	UG/L	06/28/2013	GAP
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	06/28/2013	GAP
Acrylonitrile	EPA-8260	U	10	1	UG/L	06/28/2013	GAP
Methyl T-Butyl Ether	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
2-Butanone	EPA-8260	U	10	1	UG/L	06/28/2013	GAP
Cis-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Chloroform	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Benzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Dibromomethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
4-Methyl-2-Pentanone	EPA-8260	U	10	1	UG/L	06/28/2013	GAP
Toluene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
2-Hexanone	EPA-8260	U	10	1	UG/L	06/28/2013	GAP
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Tetrachloroethylene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/15/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13060128
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-49
<b>CLIENT SAMPLE ID</b>	FPP-B19-GW (17)	<b>DATE RECEIVED:</b>	6/24/2013
		<b>COLLECTION DATE:</b>	6/19/2013 5:30:00 PM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	06/28/2013	GAP
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Ethylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
m,p-Xylene	EPA-8260	U	4.0	1	UG/L	06/28/2013	GAP
Styrene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
o-Xylene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromoform	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Isopropylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1,2,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
N-Propyl Benzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,3,5-Trimethylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
T-Butyl Benzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2,4-Trimethylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
S-Butyl Benzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
P-Isopropyltoluene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,3 Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
N-Butylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	06/28/2013	GAP
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Naphthalene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	97.1	06/24/2013	DLC
1,2-Dichloroethane-d4	EPA-8260 SIM	104	06/28/2013	GAP
1,2-Dichloroethane-d4	EPA-8260	104	06/28/2013	GAP
Toluene-d8	EPA-8260	93.7	06/28/2013	GAP
4-Bromofluorobenzene	EPA-8260	100	06/28/2013	GAP

U - Analyte analyzed for but not detected at level above reporting limit.



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-50
CLIENT SAMPLE ID	FPP-B24-GW (16)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/20/2013 12:00:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	50	1	UG/L	06/24/2013	DLC
TPH-Diesel Range	NWTPH-DX w/ SGA	U	130	1	UG/L	06/25/2013	LAP
TPH-Oil Range	NWTPH-DX w/ SGA	<b>760</b>	250	1	UG/L	06/25/2013	LAP
Vinyl Chloride	EPA-8260 SIM	U	0.020	1	UG/L	06/28/2013	GAP
Trichloroethene	EPA-8260 SIM	U	0.020	1	UG/L	06/28/2013	GAP
Dichlorodifluoromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Chloromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromomethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Chloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Carbon Disulfide	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Acetone	EPA-8260	U	25	1	UG/L	06/28/2013	GAP
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	06/28/2013	GAP
Acrylonitrile	EPA-8260	U	10	1	UG/L	06/28/2013	GAP
Methyl T-Butyl Ether	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
2-Butanone	EPA-8260	U	10	1	UG/L	06/28/2013	GAP
Cis-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Chloroform	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Benzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Dibromomethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
4-Methyl-2-Pentanone	EPA-8260	U	10	1	UG/L	06/28/2013	GAP
Toluene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
2-Hexanone	EPA-8260	U	10	1	UG/L	06/28/2013	GAP
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/15/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13060128
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-50
<b>CLIENT SAMPLE ID</b>	FPP-B24-GW (16)	<b>DATE RECEIVED:</b>	6/24/2013
		<b>COLLECTION DATE:</b>	6/20/2013 12:00:00 PM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Tetrachloroethylene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	06/28/2013	GAP
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Ethylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
m,p-Xylene	EPA-8260	U	4.0	1	UG/L	06/28/2013	GAP
Styrene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
o-Xylene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromoform	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Isopropylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
N-Propyl Benzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,3,5-Trimethylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
T-Butyl Benzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2,4-Trimethylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
S-Butyl Benzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
P-Isopropyltoluene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,3 Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
N-Butylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	06/28/2013	GAP
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Naphthalene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Pyridine	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
N-Nitrosodimethylamine	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Phenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Aniline	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Bis(2-Chloroethyl)Ether	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2-Chlorophenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
1,3-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP





**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-50
CLIENT SAMPLE ID	FPP-B24-GW (16)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/20/2013 12:00:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,4-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Benzyl Alcohol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
1,2-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2-Methylphenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Bis(2-Chloroisopropyl)Ether	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
3&4-Methylphenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
N-Nitroso-Di-N-Propylamine	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Hexachloroethane	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Nitrobenzene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Isophorone	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2-Nitrophenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2,4-Dimethylphenol	EPA-8270	8.1	2.0	1	UG/L	07/02/2013	LAP
Benzoic Acid	EPA-8270	U	10	1	UG/L	07/02/2013	LAP
Bis(2-Chloroethoxy)Methane	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2,4-Dichlorophenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
1,2,4-Trichlorobenzene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Naphthalene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
4-Chloroaniline	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2,6-Dichlorophenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Hexachlorobutadiene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
4-Chloro-3-Methylphenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2-Methylnaphthalene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
1-Methylnaphthalene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Hexachlorocyclopentadiene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2,4,6-Trichlorophenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2,4,5-Trichlorophenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2-Chloronaphthalene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2-Nitroaniline	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Acenaphthylene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Dimethylphthalate	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2,6-Dinitrotoluene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Acenaphthene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
3-Nitroaniline	EPA-8270	U	5.0	1	UG/L	07/02/2013	LAP
2,4-Dinitrophenol	EPA-8270	U	10	1	UG/L	07/02/2013	LAP
4-Nitrophenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Dibenzofuran	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2,4-Dinitrotoluene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2,3,4,6-Tetrachlorophenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-50
CLIENT SAMPLE ID	FPP-B24-GW (16)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/20/2013 12:00:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Diethylphthalate	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Fluorene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
4-Chlorophenyl-Phenylether	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
4-Nitroaniline	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
4,6-Dinitro-2-Methylphenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
N-Nitrosodiphenylamine	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Azobenzene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
4-Bromophenyl-Phenylether	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Hexachlorobenzene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Pentachlorophenol	EPA-8270	U	5.0	1	UG/L	07/02/2013	LAP
Phenanthrene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Anthracene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Carbazole	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Di-N-Butylphthalate	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Fluoranthene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Pyrene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Butylbenzylphthalate	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
3,3-Dichlorobenzidine	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Benzo[A]Anthracene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Chrysene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Di-N-Octylphthalate	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Benzo[B]Fluoranthene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Benzo[K]Fluoranthene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Benzo[A]Pyrene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Dibenz[A,H]Anthracene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Benzo[G,H,I]Perylene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Mercury (Dissolved)	EPA-7470	U	0.20	1	UG/L	07/03/2013	RAL
Arsenic (Dissolved)	EPA-200.8	U	1.0	1	UG/L	06/27/2013	RAL
Cadmium (Dissolved)	EPA-200.8	U	1.0	1	UG/L	06/27/2013	RAL
Chromium (Dissolved)	EPA-200.8	U	2.0	1	UG/L	06/27/2013	RAL
Iron (Dissolved)	EPA-200.8	84	50	1	UG/L	06/27/2013	RAL
Lead (Dissolved)	EPA-200.8	U	1.0	1	UG/L	06/27/2013	RAL
Manganese (Dissolved)	EPA-200.8	700	2.0	1	UG/L	06/27/2013	RAL
Sodium (Dissolved)	EPA-200.8	53000	50	1	UG/L	06/27/2013	RAL



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/15/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13060128
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-50
<b>CLIENT SAMPLE ID</b>	FPP-B24-GW (16)	<b>DATE RECEIVED:</b>	6/24/2013
		<b>COLLECTION DATE:</b>	6/20/2013 12:00:00 PM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

SURROGATE	METHOD	%REC	ANALYSIS	ANALYSIS
			DATE	BY
TFT	NWTPH-GX	96.6	06/24/2013	DLC
C25	NWTPH-DX w/ SGA	101	06/25/2013	LAP
1,2-Dichloroethane-d4	EPA-8260 SIM	103	06/28/2013	GAP
1,2-Dichloroethane-d4	EPA-8260	103	06/28/2013	GAP
Toluene-d8	EPA-8260	92.6	06/28/2013	GAP
4-Bromofluorobenzene	EPA-8260	99.9	06/28/2013	GAP
2-Fluorophenol	EPA-8270	62.6	07/02/2013	LAP
Phenol-d5	EPA-8270	27.9	07/02/2013	LAP
Nitrobenzene-d5	EPA-8270	99.0	07/02/2013	LAP
2-Fluorobiphenyl	EPA-8270	94.4	07/02/2013	LAP
2,4,6-Tribromophenol	EPA-8270	114	07/02/2013	LAP
Terphenyl-d14	EPA-8270	96.7	07/02/2013	LAP

U - Analyte analyzed for but not detected at level above reporting limit.  
Chromatogram indicates that it is likely that sample contains light oil/lube oil.



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/15/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13060128
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-51
<b>CLIENT SAMPLE ID</b>	FPP-B20-GW (11)	<b>DATE RECEIVED:</b>	6/24/2013
		<b>COLLECTION DATE:</b>	6/20/2013 12:40:00 PM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	50	1	UG/L	06/24/2013	DLC
TPH-Diesel Range	NWTPH-DX w/ SGA	U	130	1	UG/L	06/25/2013	LAP
TPH-Oil Range	NWTPH-DX w/ SGA	U	250	1	UG/L	06/25/2013	LAP
Vinyl Chloride	EPA-8260 SIM	U	0.020	1	UG/L	06/28/2013	GAP
Trichloroethene	EPA-8260 SIM	U	0.020	1	UG/L	06/28/2013	GAP
Dichlorodifluoromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Chloromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromomethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Chloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Carbon Disulfide	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Acetone	EPA-8260	U	25	1	UG/L	06/28/2013	GAP
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	06/28/2013	GAP
Acrylonitrile	EPA-8260	U	10	1	UG/L	06/28/2013	GAP
Methyl T-Butyl Ether	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
2-Butanone	EPA-8260	U	10	1	UG/L	06/28/2013	GAP
Cis-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Chloroform	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Benzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Dibromomethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
4-Methyl-2-Pentanone	EPA-8260	U	10	1	UG/L	06/28/2013	GAP
Toluene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
2-Hexanone	EPA-8260	U	10	1	UG/L	06/28/2013	GAP
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/15/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13060128
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-51
<b>CLIENT SAMPLE ID</b>	FPP-B20-GW (11)	<b>DATE RECEIVED:</b>	6/24/2013
		<b>COLLECTION DATE:</b>	6/20/2013 12:40:00 PM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Tetrachloroethylene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	06/28/2013	GAP
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Ethylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
m,p-Xylene	EPA-8260	U	4.0	1	UG/L	06/28/2013	GAP
Styrene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
o-Xylene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromoform	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Isopropylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
N-Propyl Benzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,3,5-Trimethylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
T-Butyl Benzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2,4-Trimethylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
S-Butyl Benzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
P-Isopropyltoluene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,3 Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
N-Butylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	06/28/2013	GAP
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Naphthalene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Pyridine	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
N-Nitrosodimethylamine	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Phenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Aniline	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Bis(2-Chloroethyl)Ether	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2-Chlorophenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
1,3-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/15/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13060128
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-51
<b>CLIENT SAMPLE ID</b>	FPP-B20-GW (11)	<b>DATE RECEIVED:</b>	6/24/2013
		<b>COLLECTION DATE:</b>	6/20/2013 12:40:00 PM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,4-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Benzyl Alcohol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
1,2-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2-Methylphenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Bis(2-Chloroisopropyl)Ether	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
3&4-Methylphenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
N-Nitroso-Di-N-Propylamine	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Hexachloroethane	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Nitrobenzene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Isophorone	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2-Nitrophenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2,4-Dimethylphenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Benzoic Acid	EPA-8270	U	10	1	UG/L	07/02/2013	LAP
Bis(2-Chloroethoxy)Methane	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2,4-Dichlorophenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
1,2,4-Trichlorobenzene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Naphthalene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
4-Chloroaniline	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2,6-Dichlorophenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Hexachlorobutadiene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
4-Chloro-3-Methylphenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2-Methylnaphthalene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
1-Methylnaphthalene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Hexachlorocyclopentadiene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2,4,6-Trichlorophenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2,4,5-Trichlorophenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2-Chloronaphthalene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2-Nitroaniline	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Acenaphthylene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Dimethylphthalate	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2,6-Dinitrotoluene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Acenaphthene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
3-Nitroaniline	EPA-8270	U	5.0	1	UG/L	07/02/2013	LAP
2,4-Dinitrophenol	EPA-8270	U	10	1	UG/L	07/02/2013	LAP
4-Nitrophenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Dibenzofuran	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2,4-Dinitrotoluene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2,3,4,6-Tetrachlorophenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-51
CLIENT SAMPLE ID	FPP-B20-GW (11)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/20/2013 12:40:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Diethylphthalate	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Fluorene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
4-Chlorophenyl-Phenylether	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
4-Nitroaniline	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
4,6-Dinitro-2-Methylphenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
N-Nitrosodiphenylamine	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Azobenzene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
4-Bromophenyl-Phenylether	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Hexachlorobenzene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Pentachlorophenol	EPA-8270	U	5.0	1	UG/L	07/02/2013	LAP
Phenanthrene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Anthracene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Carbazole	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Di-N-Butylphthalate	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Fluoranthene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Pyrene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Butylbenzylphthalate	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
3,3-Dichlorobenzidine	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Benzo[A]Anthracene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Chrysene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Di-N-Octylphthalate	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Benzo[B]Fluoranthene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Benzo[K]Fluoranthene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Benzo[A]Pyrene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Dibenz[A,H]Anthracene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Benzo[G,H,I]Perylene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Mercury (Dissolved)	EPA-7470	U	0.20	1	UG/L	07/03/2013	RAL
Arsenic (Dissolved)	EPA-200.8	2.7	1.0	1	UG/L	06/27/2013	RAL
Cadmium (Dissolved)	EPA-200.8	U	1.0	1	UG/L	06/27/2013	RAL
Chromium (Dissolved)	EPA-200.8	U	2.0	1	UG/L	06/27/2013	RAL
Iron (Dissolved)	EPA-200.8	21000	50	1	UG/L	06/27/2013	RAL
Lead (Dissolved)	EPA-200.8	U	1.0	1	UG/L	06/27/2013	RAL
Manganese (Dissolved)	EPA-200.8	4700	2.0	1	UG/L	06/27/2013	RAL
Sodium (Dissolved)	EPA-200.8	130000	50	1	UG/L	06/27/2013	RAL



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-51
CLIENT SAMPLE ID	FPP-B20-GW (11)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/20/2013 12:40:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

SURROGATE	METHOD	%REC	ANALYSIS	ANALYSIS
			DATE	BY
TFT	NWTPH-GX	96.3	06/24/2013	DLC
C25	NWTPH-DX w/ SGA	96.4	06/25/2013	LAP
1,2-Dichloroethane-d4	EPA-8260 SIM	103	06/28/2013	GAP
1,2-Dichloroethane-d4	EPA-8260	103	06/28/2013	GAP
Toluene-d8	EPA-8260	92.7	06/28/2013	GAP
4-Bromofluorobenzene	EPA-8260	98.7	06/28/2013	GAP
2-Fluorophenol	EPA-8270	65.9	07/02/2013	LAP
Phenol-d5	EPA-8270	28.6	07/02/2013	LAP
Nitrobenzene-d5	EPA-8270	104	07/02/2013	LAP
2-Fluorobiphenyl	EPA-8270	97.0	07/02/2013	LAP
2,4,6-Tribromophenol	EPA-8270	121	07/02/2013	LAP
Terphenyl-d14	EPA-8270	108	07/02/2013	LAP

U - Analyte analyzed for but not detected at level above reporting limit.





**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-52
CLIENT SAMPLE ID	FPP-B08-GW (17)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/18/2013 12:30:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	50	1	UG/L	06/24/2013	DLC
TPH-Diesel Range	NWTPH-DX w/ SGA	U	130	1	UG/L	06/25/2013	LAP
TPH-Oil Range	NWTPH-DX w/ SGA	<b>600</b>	250	1	UG/L	06/25/2013	LAP
Vinyl Chloride	EPA-8260 SIM	U	0.020	1	UG/L	06/28/2013	GAP
Trichloroethene	EPA-8260 SIM	U	0.020	1	UG/L	06/28/2013	GAP
Dichlorodifluoromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Chloromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromomethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Chloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Carbon Disulfide	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Acetone	EPA-8260	U	25	1	UG/L	06/28/2013	GAP
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	06/28/2013	GAP
Acrylonitrile	EPA-8260	U	10	1	UG/L	06/28/2013	GAP
Methyl T-Butyl Ether	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
2-Butanone	EPA-8260	U	10	1	UG/L	06/28/2013	GAP
Cis-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Chloroform	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Benzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Dibromomethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
4-Methyl-2-Pentanone	EPA-8260	U	10	1	UG/L	06/28/2013	GAP
Toluene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
2-Hexanone	EPA-8260	U	10	1	UG/L	06/28/2013	GAP
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/15/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13060128
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-52
<b>CLIENT SAMPLE ID</b>	FPP-B08-GW (17)	<b>DATE RECEIVED:</b>	6/24/2013
		<b>COLLECTION DATE:</b>	6/18/2013 12:30:00 PM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Tetrachloroethylene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	06/28/2013	GAP
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Ethylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
m,p-Xylene	EPA-8260	U	4.0	1	UG/L	06/28/2013	GAP
Styrene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
o-Xylene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromoform	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Isopropylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
N-Propyl Benzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,3,5-Trimethylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
T-Butyl Benzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2,4-Trimethylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
S-Butyl Benzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
P-Isopropyltoluene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,3 Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
N-Butylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	06/28/2013	GAP
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Naphthalene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Pyridine	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
N-Nitrosodimethylamine	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Phenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Aniline	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Bis(2-Chloroethyl)Ether	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2-Chlorophenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
1,3-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/15/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13060128
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-52
<b>CLIENT SAMPLE ID</b>	FPP-B08-GW (17)	<b>DATE RECEIVED:</b>	6/24/2013
		<b>COLLECTION DATE:</b>	6/18/2013 12:30:00 PM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,4-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Benzyl Alcohol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
1,2-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2-Methylphenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Bis(2-Chloroisopropyl)Ether	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
3&4-Methylphenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
N-Nitroso-Di-N-Propylamine	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Hexachloroethane	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Nitrobenzene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Isophorone	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2-Nitrophenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2,4-Dimethylphenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Benzoic Acid	EPA-8270	U	10	1	UG/L	07/02/2013	LAP
Bis(2-Chloroethoxy)Methane	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2,4-Dichlorophenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
1,2,4-Trichlorobenzene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Naphthalene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
4-Chloroaniline	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2,6-Dichlorophenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Hexachlorobutadiene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
4-Chloro-3-Methylphenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2-Methylnaphthalene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
1-Methylnaphthalene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Hexachlorocyclopentadiene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2,4,6-Trichlorophenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2,4,5-Trichlorophenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2-Chloronaphthalene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2-Nitroaniline	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Acenaphthylene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Dimethylphthalate	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2,6-Dinitrotoluene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Acenaphthene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
3-Nitroaniline	EPA-8270	U	5.0	1	UG/L	07/02/2013	LAP
2,4-Dinitrophenol	EPA-8270	U	10	1	UG/L	07/02/2013	LAP
4-Nitrophenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Dibenzofuran	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2,4-Dinitrotoluene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2,3,4,6-Tetrachlorophenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-52
CLIENT SAMPLE ID	FPP-B08-GW (17)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/18/2013 12:30:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Diethylphthalate	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Fluorene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
4-Chlorophenyl-Phenylether	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
4-Nitroaniline	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
4,6-Dinitro-2-Methylphenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
N-Nitrosodiphenylamine	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Azobenzene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
4-Bromophenyl-Phenylether	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Hexachlorobenzene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Pentachlorophenol	EPA-8270	U	5.0	1	UG/L	07/02/2013	LAP
Phenanthrene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Anthracene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Carbazole	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Di-N-Butylphthalate	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Fluoranthene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Pyrene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Butylbenzylphthalate	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
3,3-Dichlorobenzidine	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Benzo[A]Anthracene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Chrysene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Di-N-Octylphthalate	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Benzo[B]Fluoranthene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Benzo[K]Fluoranthene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Benzo[A]Pyrene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Dibenz[A,H]Anthracene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Benzo[G,H,I]Perylene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Mercury (Dissolved)	EPA-7470	U	0.20	1	UG/L	07/03/2013	RAL
Arsenic (Dissolved)	EPA-200.8	1.1	1.0	1	UG/L	06/27/2013	RAL
Cadmium (Dissolved)	EPA-200.8	U	1.0	1	UG/L	06/27/2013	RAL
Chromium (Dissolved)	EPA-200.8	U	2.0	1	UG/L	06/27/2013	RAL
Iron (Dissolved)	EPA-200.8	430	50	1	UG/L	06/27/2013	RAL
Lead (Dissolved)	EPA-200.8	U	1.0	1	UG/L	06/27/2013	RAL
Manganese (Dissolved)	EPA-200.8	1300	2.0	1	UG/L	06/27/2013	RAL
Sodium (Dissolved)	EPA-200.8	43000	50	1	UG/L	06/27/2013	RAL



CERTIFICATE OF ANALYSIS

CLIENT: Landau Associates, Inc. DATE: 7/15/2013  
130 - 2nd Ave. S. ALS JOB#: EV13060128  
Edmonds, WA 98020 ALS SAMPLE#: -52  
CLIENT CONTACT: Jeffrey Fellows DATE RECEIVED: 6/24/2013  
CLIENT PROJECT: Yakima Mill Site / #1148007.010 COLLECTION DATE: 6/18/2013 12:30:00 PM  
CLIENT SAMPLE ID: FPP-B08-GW (17) WDOE ACCREDITATION: C601

DATA RESULTS

SURROGATE	METHOD	%REC	ANALYSIS	
			DATE	BY
TFT	NWTPH-GX	103	06/24/2013	DLC
C25	NWTPH-DX w/ SGA	107	06/25/2013	LAP
1,2-Dichloroethane-d4	EPA-8260 SIM	102	06/28/2013	GAP
1,2-Dichloroethane-d4	EPA-8260	102	06/28/2013	GAP
Toluene-d8	EPA-8260	93.1	06/28/2013	GAP
4-Bromofluorobenzene	EPA-8260	99.8	06/28/2013	GAP
2-Fluorophenol	EPA-8270	65.6	07/02/2013	LAP
Phenol-d5	EPA-8270	29.4	07/02/2013	LAP
Nitrobenzene-d5	EPA-8270	97.6	07/02/2013	LAP
2-Fluorobiphenyl	EPA-8270	88.6	07/02/2013	LAP
2,4,6-Tribromophenol	EPA-8270	110	07/02/2013	LAP
Terphenyl-d14	EPA-8270	105	07/02/2013	LAP

U - Analyte analyzed for but not detected at level above reporting limit.  
Chromatogram indicates that it is likely that sample contains light oil/lube oil.



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-53
CLIENT SAMPLE ID	FPP-B01-GW (17)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/18/2013 4:30:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	50	1	UG/L	06/24/2013	DLC
TPH-Diesel Range	NWTPH-DX w/ SGA	U	130	1	UG/L	06/25/2013	LAP
TPH-Oil Range	NWTPH-DX w/ SGA	U	250	1	UG/L	06/25/2013	LAP
Vinyl Chloride	EPA-8260 SIM	U	0.020	1	UG/L	06/28/2013	GAP
Trichloroethene	EPA-8260 SIM	U	0.020	1	UG/L	06/28/2013	GAP
Dichlorodifluoromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Chloromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromomethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Chloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Carbon Disulfide	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Acetone	EPA-8260	U	25	1	UG/L	06/28/2013	GAP
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	06/28/2013	GAP
Acrylonitrile	EPA-8260	U	10	1	UG/L	06/28/2013	GAP
Methyl T-Butyl Ether	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
2-Butanone	EPA-8260	U	10	1	UG/L	06/28/2013	GAP
Cis-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Chloroform	EPA-8260	3.3	2.0	1	UG/L	06/28/2013	GAP
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Benzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Dibromomethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
4-Methyl-2-Pentanone	EPA-8260	U	10	1	UG/L	06/28/2013	GAP
Toluene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
2-Hexanone	EPA-8260	U	10	1	UG/L	06/28/2013	GAP
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/15/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13060128
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-53
<b>CLIENT SAMPLE ID</b>	FPP-B01-GW (17)	<b>DATE RECEIVED:</b>	6/24/2013
		<b>COLLECTION DATE:</b>	6/18/2013 4:30:00 PM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Tetrachloroethylene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	06/28/2013	GAP
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Ethylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
m,p-Xylene	EPA-8260	U	4.0	1	UG/L	06/28/2013	GAP
Styrene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
o-Xylene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromoform	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Isopropylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
N-Propyl Benzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,3,5-Trimethylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
T-Butyl Benzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2,4-Trimethylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
S-Butyl Benzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
P-Isopropyltoluene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,3 Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
N-Butylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	06/28/2013	GAP
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Naphthalene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Pyridine	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
N-Nitrosodimethylamine	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Phenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Aniline	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Bis(2-Chloroethyl)Ether	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2-Chlorophenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
1,3-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/15/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13060128
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-53
<b>CLIENT SAMPLE ID</b>	FPP-B01-GW (17)	<b>DATE RECEIVED:</b>	6/24/2013
		<b>COLLECTION DATE:</b>	6/18/2013 4:30:00 PM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,4-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Benzyl Alcohol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
1,2-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2-Methylphenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Bis(2-Chloroisopropyl)Ether	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
3&4-Methylphenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
N-Nitroso-Di-N-Propylamine	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Hexachloroethane	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Nitrobenzene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Isophorone	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2-Nitrophenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2,4-Dimethylphenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Benzoic Acid	EPA-8270	U	10	1	UG/L	07/02/2013	LAP
Bis(2-Chloroethoxy)Methane	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2,4-Dichlorophenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
1,2,4-Trichlorobenzene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Naphthalene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
4-Chloroaniline	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2,6-Dichlorophenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Hexachlorobutadiene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
4-Chloro-3-Methylphenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2-Methylnaphthalene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
1-Methylnaphthalene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Hexachlorocyclopentadiene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2,4,6-Trichlorophenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2,4,5-Trichlorophenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2-Chloronaphthalene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2-Nitroaniline	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Acenaphthylene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Dimethylphthalate	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2,6-Dinitrotoluene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Acenaphthene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
3-Nitroaniline	EPA-8270	U	5.0	1	UG/L	07/02/2013	LAP
2,4-Dinitrophenol	EPA-8270	U	10	1	UG/L	07/02/2013	LAP
4-Nitrophenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Dibenzofuran	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2,4-Dinitrotoluene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2,3,4,6-Tetrachlorophenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP





**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-53
CLIENT SAMPLE ID	FPP-B01-GW (17)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/18/2013 4:30:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Diethylphthalate	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Fluorene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
4-Chlorophenyl-Phenylether	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
4-Nitroaniline	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
4,6-Dinitro-2-Methylphenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
N-Nitrosodiphenylamine	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Azobenzene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
4-Bromophenyl-Phenylether	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Hexachlorobenzene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Pentachlorophenol	EPA-8270	U	5.0	1	UG/L	07/02/2013	LAP
Phenanthrene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Anthracene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Carbazole	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Di-N-Butylphthalate	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Fluoranthene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Pyrene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Butylbenzylphthalate	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
3,3-Dichlorobenzidine	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Benzo[A]Anthracene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Chrysene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Di-N-Octylphthalate	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Benzo[B]Fluoranthene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Benzo[K]Fluoranthene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Benzo[A]Pyrene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Dibenz[A,H]Anthracene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Benzo[G,H,I]Perylene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Mercury (Dissolved)	EPA-7470	U	0.20	1	UG/L	07/03/2013	RAL
Arsenic (Dissolved)	EPA-200.8	U	1.0	1	UG/L	06/27/2013	RAL
Cadmium (Dissolved)	EPA-200.8	U	1.0	1	UG/L	06/27/2013	RAL
Chromium (Dissolved)	EPA-200.8	U	2.0	1	UG/L	06/27/2013	RAL
Iron (Dissolved)	EPA-200.8	U	50	1	UG/L	06/27/2013	RAL
Lead (Dissolved)	EPA-200.8	U	1.0	1	UG/L	06/27/2013	RAL
Manganese (Dissolved)	EPA-200.8	<b>830</b>	2.0	1	UG/L	06/27/2013	RAL
Sodium (Dissolved)	EPA-200.8	<b>13000</b>	50	1	UG/L	06/27/2013	RAL



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-53
CLIENT SAMPLE ID	FPP-B01-GW (17)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/18/2013 4:30:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

SURROGATE	METHOD	%REC	ANALYSIS	ANALYSIS
			DATE	BY
TFT	NWTPH-GX	108	06/24/2013	DLC
C25	NWTPH-DX w/ SGA	105	06/25/2013	LAP
1,2-Dichloroethane-d4	EPA-8260 SIM	103	06/28/2013	GAP
1,2-Dichloroethane-d4	EPA-8260	103	06/28/2013	GAP
Toluene-d8	EPA-8260	92.3	06/28/2013	GAP
4-Bromofluorobenzene	EPA-8260	99.1	06/28/2013	GAP
2-Fluorophenol	EPA-8270	60.5	07/02/2013	LAP
Phenol-d5	EPA-8270	25.2	07/02/2013	LAP
Nitrobenzene-d5	EPA-8270	90.7	07/02/2013	LAP
2-Fluorobiphenyl	EPA-8270	83.0	07/02/2013	LAP
2,4,6-Tribromophenol	EPA-8270	93.7	07/02/2013	LAP
Terphenyl-d14	EPA-8270	106	07/02/2013	LAP

U - Analyte analyzed for but not detected at level above reporting limit.



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/15/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13060128
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-54
<b>CLIENT SAMPLE ID</b>	TP-B08-GW (18)	<b>DATE RECEIVED:</b>	6/24/2013
		<b>COLLECTION DATE:</b>	6/21/2013 12:20:00 PM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	50	1	UG/L	06/24/2013	DLC
TPH-Diesel Range	NWTPH-DX w/ SGA	U	130	1	UG/L	06/25/2013	LAP
TPH-Oil Range	NWTPH-DX w/ SGA	U	250	1	UG/L	06/25/2013	LAP
Vinyl Chloride	EPA-8260 SIM	U	0.020	1	UG/L	06/28/2013	GAP
Trichloroethene	EPA-8260 SIM	U	0.020	1	UG/L	06/28/2013	GAP
Dichlorodifluoromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Chloromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromomethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Chloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Carbon Disulfide	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Acetone	EPA-8260	U	25	1	UG/L	06/28/2013	GAP
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	06/28/2013	GAP
Acrylonitrile	EPA-8260	U	10	1	UG/L	06/28/2013	GAP
Methyl T-Butyl Ether	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
2-Butanone	EPA-8260	U	10	1	UG/L	06/28/2013	GAP
Cis-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Chloroform	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Benzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Dibromomethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
4-Methyl-2-Pentanone	EPA-8260	U	10	1	UG/L	06/28/2013	GAP
Toluene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
2-Hexanone	EPA-8260	U	10	1	UG/L	06/28/2013	GAP
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/15/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13060128
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-54
<b>CLIENT SAMPLE ID</b>	TP-B08-GW (18)	<b>DATE RECEIVED:</b>	6/24/2013
		<b>COLLECTION DATE:</b>	6/21/2013 12:20:00 PM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Tetrachloroethylene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	06/28/2013	GAP
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Ethylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
m,p-Xylene	EPA-8260	U	4.0	1	UG/L	06/28/2013	GAP
Styrene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
o-Xylene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromoform	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Isopropylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
N-Propyl Benzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,3,5-Trimethylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
T-Butyl Benzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2,4-Trimethylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
S-Butyl Benzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
P-Isopropyltoluene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,3 Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
N-Butylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	06/28/2013	GAP
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Naphthalene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Pyridine	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
N-Nitrosodimethylamine	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Phenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Aniline	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Bis(2-Chloroethyl)Ether	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2-Chlorophenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
1,3-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/15/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13060128
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-54
<b>CLIENT SAMPLE ID</b>	TP-B08-GW (18)	<b>DATE RECEIVED:</b>	6/24/2013
		<b>COLLECTION DATE:</b>	6/21/2013 12:20:00 PM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,4-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Benzyl Alcohol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
1,2-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2-Methylphenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Bis(2-Chloroisopropyl)Ether	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
3&4-Methylphenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
N-Nitroso-Di-N-Propylamine	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Hexachloroethane	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Nitrobenzene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Isophorone	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2-Nitrophenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2,4-Dimethylphenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Benzoic Acid	EPA-8270	U	10	1	UG/L	07/02/2013	LAP
Bis(2-Chloroethoxy)Methane	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2,4-Dichlorophenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
1,2,4-Trichlorobenzene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Naphthalene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
4-Chloroaniline	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2,6-Dichlorophenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Hexachlorobutadiene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
4-Chloro-3-Methylphenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2-Methylnaphthalene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
1-Methylnaphthalene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Hexachlorocyclopentadiene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2,4,6-Trichlorophenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2,4,5-Trichlorophenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2-Chloronaphthalene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2-Nitroaniline	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Acenaphthylene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Dimethylphthalate	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2,6-Dinitrotoluene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Acenaphthene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
3-Nitroaniline	EPA-8270	U	5.0	1	UG/L	07/02/2013	LAP
2,4-Dinitrophenol	EPA-8270	U	10	1	UG/L	07/02/2013	LAP
4-Nitrophenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Dibenzofuran	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2,4-Dinitrotoluene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2,3,4,6-Tetrachlorophenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-54
CLIENT SAMPLE ID	TP-B08-GW (18)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/21/2013 12:20:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Diethylphthalate	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Fluorene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
4-Chlorophenyl-Phenylether	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
4-Nitroaniline	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
4,6-Dinitro-2-Methylphenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
N-Nitrosodiphenylamine	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Azobenzene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
4-Bromophenyl-Phenylether	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Hexachlorobenzene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Pentachlorophenol	EPA-8270	U	5.0	1	UG/L	07/02/2013	LAP
Phenanthrene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Anthracene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Carbazole	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Di-N-Butylphthalate	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Fluoranthene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Pyrene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Butylbenzylphthalate	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
3,3-Dichlorobenzidine	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Benzo[A]Anthracene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Chrysene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Di-N-Octylphthalate	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Benzo[B]Fluoranthene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Benzo[K]Fluoranthene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Benzo[A]Pyrene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Dibenz[A,H]Anthracene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Benzo[G,H,I]Perylene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Mercury (Dissolved)	EPA-7470	U	0.20	1	UG/L	07/03/2013	RAL
Arsenic (Dissolved)	EPA-200.8	U	1.0	1	UG/L	06/27/2013	RAL
Cadmium (Dissolved)	EPA-200.8	U	1.0	1	UG/L	06/27/2013	RAL
Chromium (Dissolved)	EPA-200.8	U	2.0	1	UG/L	06/27/2013	RAL
Iron (Dissolved)	EPA-200.8	<b>220</b>	50	1	UG/L	06/27/2013	RAL
Lead (Dissolved)	EPA-200.8	U	1.0	1	UG/L	06/27/2013	RAL
Manganese (Dissolved)	EPA-200.8	<b>1400</b>	2.0	1	UG/L	06/27/2013	RAL
Sodium (Dissolved)	EPA-200.8	<b>17000</b>	50	1	UG/L	06/27/2013	RAL



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/15/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13060128
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-54
<b>CLIENT SAMPLE ID</b>	TP-B08-GW (18)	<b>DATE RECEIVED:</b>	6/24/2013
		<b>COLLECTION DATE:</b>	6/21/2013 12:20:00 PM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

SURROGATE	METHOD	%REC	ANALYSIS	ANALYSIS
			DATE	BY
TFT	NWTPH-GX	97.2	06/24/2013	DLC
C25	NWTPH-DX w/ SGA	64.0	06/25/2013	LAP
1,2-Dichloroethane-d4	EPA-8260 SIM	102	06/28/2013	GAP
1,2-Dichloroethane-d4	EPA-8260	102	06/28/2013	GAP
Toluene-d8	EPA-8260	97.5	06/28/2013	GAP
4-Bromofluorobenzene	EPA-8260	108	06/28/2013	GAP
2-Fluorophenol	EPA-8270	55.9	07/02/2013	LAP
Phenol-d5	EPA-8270	24.5	07/02/2013	LAP
Nitrobenzene-d5	EPA-8270	89.1	07/02/2013	LAP
2-Fluorobiphenyl	EPA-8270	81.9	07/02/2013	LAP
2,4,6-Tribromophenol	EPA-8270	96.6	07/02/2013	LAP
Terphenyl-d14	EPA-8270	98.3	07/02/2013	LAP

U - Analyte analyzed for but not detected at level above reporting limit.



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-55
CLIENT SAMPLE ID	FPP-B11-GW (18)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/18/2013 9:25:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	U	130	1	UG/L	06/25/2013	LAP
TPH-Oil Range	NWTPH-DX w/ SGA	U	250	1	UG/L	06/25/2013	LAP
Mercury (Dissolved)	EPA-7470	U	0.20	1	UG/L	07/03/2013	RAL
Arsenic (Dissolved)	EPA-200.8	<b>1.3</b>	1.0	1	UG/L	06/27/2013	RAL
Cadmium (Dissolved)	EPA-200.8	U	1.0	1	UG/L	06/27/2013	RAL
Chromium (Dissolved)	EPA-200.8	U	2.0	1	UG/L	06/27/2013	RAL
Iron (Dissolved)	EPA-200.8	<b>76</b>	50	1	UG/L	06/27/2013	RAL
Lead (Dissolved)	EPA-200.8	U	1.0	1	UG/L	06/27/2013	RAL
Manganese (Dissolved)	EPA-200.8	<b>1600</b>	2.0	1	UG/L	06/27/2013	RAL
Sodium (Dissolved)	EPA-200.8	<b>23000</b>	50	1	UG/L	06/27/2013	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX w/ SGA	<b>92.7</b>	06/25/2013	LAP

U - Analyte analyzed for but not detected at level above reporting limit.





**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-56
CLIENT SAMPLE ID	FPP-B04-GW (15)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/18/2013 2:15:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	50	1	UG/L	06/25/2013	DLC
TPH-Diesel Range	NWTPH-DX w/ SGA	1700	130	1	UG/L	06/25/2013	LAP
TPH-Oil Range	NWTPH-DX w/ SGA	5000	250	1	UG/L	06/25/2013	LAP
Vinyl Chloride	EPA-8260 SIM	U	0.020	1	UG/L	06/28/2013	GAP
Trichloroethene	EPA-8260 SIM	U	0.020	1	UG/L	06/28/2013	GAP
Dichlorodifluoromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Chloromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromomethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Chloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Carbon Disulfide	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Acetone	EPA-8260	U	25	1	UG/L	06/28/2013	GAP
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	06/28/2013	GAP
Acrylonitrile	EPA-8260	U	10	1	UG/L	06/28/2013	GAP
Methyl T-Butyl Ether	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
2-Butanone	EPA-8260	U	10	1	UG/L	06/28/2013	GAP
Cis-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Chloroform	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Benzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Dibromomethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
4-Methyl-2-Pentanone	EPA-8260	U	10	1	UG/L	06/28/2013	GAP
Toluene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
2-Hexanone	EPA-8260	U	10	1	UG/L	06/28/2013	GAP
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/15/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13060128
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-56
<b>CLIENT SAMPLE ID</b>	FPP-B04-GW (15)	<b>DATE RECEIVED:</b>	6/24/2013
		<b>COLLECTION DATE:</b>	6/18/2013 2:15:00 PM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Tetrachloroethylene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	06/28/2013	GAP
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Ethylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
m,p-Xylene	EPA-8260	U	4.0	1	UG/L	06/28/2013	GAP
Styrene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
o-Xylene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromoform	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Isopropylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
N-Propyl Benzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,3,5-Trimethylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
T-Butyl Benzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2,4-Trimethylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
S-Butyl Benzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
P-Isopropyltoluene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,3 Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
N-Butylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	06/28/2013	GAP
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Naphthalene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Pyridine	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
N-Nitrosodimethylamine	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Phenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Aniline	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Bis(2-Chloroethyl)Ether	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2-Chlorophenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
1,3-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/15/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13060128
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-56
<b>CLIENT SAMPLE ID</b>	FPP-B04-GW (15)	<b>DATE RECEIVED:</b>	6/24/2013
		<b>COLLECTION DATE:</b>	6/18/2013 2:15:00 PM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,4-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Benzyl Alcohol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
1,2-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2-Methylphenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Bis(2-Chloroisopropyl)Ether	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
3&4-Methylphenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
N-Nitroso-Di-N-Propylamine	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Hexachloroethane	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Nitrobenzene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Isophorone	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2-Nitrophenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2,4-Dimethylphenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Benzoic Acid	EPA-8270	U	10	1	UG/L	07/02/2013	LAP
Bis(2-Chloroethoxy)Methane	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2,4-Dichlorophenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
1,2,4-Trichlorobenzene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Naphthalene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
4-Chloroaniline	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2,6-Dichlorophenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Hexachlorobutadiene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
4-Chloro-3-Methylphenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2-Methylnaphthalene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
1-Methylnaphthalene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Hexachlorocyclopentadiene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2,4,6-Trichlorophenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2,4,5-Trichlorophenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2-Chloronaphthalene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2-Nitroaniline	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Acenaphthylene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Dimethylphthalate	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2,6-Dinitrotoluene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Acenaphthene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
3-Nitroaniline	EPA-8270	U	5.0	1	UG/L	07/02/2013	LAP
2,4-Dinitrophenol	EPA-8270	U	10	1	UG/L	07/02/2013	LAP
4-Nitrophenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Dibenzofuran	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2,4-Dinitrotoluene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2,3,4,6-Tetrachlorophenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-56
CLIENT SAMPLE ID	FPP-B04-GW (15)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/18/2013 2:15:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Diethylphthalate	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Fluorene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
4-Chlorophenyl-Phenylether	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
4-Nitroaniline	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
4,6-Dinitro-2-Methylphenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
N-Nitrosodiphenylamine	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Azobenzene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
4-Bromophenyl-Phenylether	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Hexachlorobenzene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Pentachlorophenol	EPA-8270	U	5.0	1	UG/L	07/02/2013	LAP
Phenanthrene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Anthracene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Carbazole	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Di-N-Butylphthalate	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Fluoranthene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Pyrene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Butylbenzylphthalate	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
3,3-Dichlorobenzidine	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Benzo[A]Anthracene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Chrysene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Di-N-Octylphthalate	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Benzo[B]Fluoranthene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Benzo[K]Fluoranthene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Benzo[A]Pyrene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Dibenz[A,H]Anthracene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Benzo[G,H,I]Perylene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Mercury (Dissolved)	EPA-7470	U	0.20	1	UG/L	07/03/2013	RAL
Arsenic (Dissolved)	EPA-200.8	1.4	1.0	1	UG/L	06/27/2013	RAL
Cadmium (Dissolved)	EPA-200.8	U	1.0	1	UG/L	06/27/2013	RAL
Chromium (Dissolved)	EPA-200.8	U	2.0	1	UG/L	06/27/2013	RAL
Iron (Dissolved)	EPA-200.8	4900	50	1	UG/L	06/27/2013	RAL
Lead (Dissolved)	EPA-200.8	U	1.0	1	UG/L	06/27/2013	RAL
Manganese (Dissolved)	EPA-200.8	2000	2.0	1	UG/L	06/27/2013	RAL
Sodium (Dissolved)	EPA-200.8	79000	50	1	UG/L	06/27/2013	RAL



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-56
CLIENT SAMPLE ID	FPP-B04-GW (15)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/18/2013 2:15:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

SURROGATE	METHOD	%REC	ANALYSIS	
			DATE	BY
TFT	NWTPH-GX	99.2	06/25/2013	DLC
C25	NWTPH-DX w/ SGA	100	06/25/2013	LAP
1,2-Dichloroethane-d4	EPA-8260 SIM	102	06/28/2013	GAP
1,2-Dichloroethane-d4	EPA-8260	102	06/28/2013	GAP
Toluene-d8	EPA-8260	97.0	06/28/2013	GAP
4-Bromofluorobenzene	EPA-8260	107	06/28/2013	GAP
2-Fluorophenol	EPA-8270	65.7	07/02/2013	LAP
Phenol-d5	EPA-8270	29.5	07/02/2013	LAP
Nitrobenzene-d5	EPA-8270	104	07/02/2013	LAP
2-Fluorobiphenyl	EPA-8270	92.4	07/02/2013	LAP
2,4,6-Tribromophenol	EPA-8270	131 DS1	07/02/2013	LAP
Terphenyl-d14	EPA-8270	107	07/02/2013	LAP

DS1 - Surrogate outside of control limits due to matrix effect.  
 U - Analyte analyzed for but not detected at level above reporting limit.  
 Chromatogram indicates that it is likely that sample contains highly weathered diesel and light oil/lube oil.



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-57
CLIENT SAMPLE ID	TP-B06-GW (16)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/20/2013 3:50:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	U	130	1	UG/L	06/25/2013	LAP
TPH-Oil Range	NWTPH-DX w/ SGA	U	250	1	UG/L	06/25/2013	LAP
Mercury (Dissolved)	EPA-7470	U	0.20	1	UG/L	07/03/2013	RAL
Arsenic (Dissolved)	EPA-200.8	U	1.0	1	UG/L	06/27/2013	RAL
Cadmium (Dissolved)	EPA-200.8	U	1.0	1	UG/L	06/27/2013	RAL
Chromium (Dissolved)	EPA-200.8	U	2.0	1	UG/L	06/27/2013	RAL
Iron (Dissolved)	EPA-200.8	<b>770</b>	50	1	UG/L	06/27/2013	RAL
Lead (Dissolved)	EPA-200.8	U	1.0	1	UG/L	06/27/2013	RAL
Manganese (Dissolved)	EPA-200.8	<b>1400</b>	2.0	1	UG/L	06/27/2013	RAL
Sodium (Dissolved)	EPA-200.8	<b>17000</b>	50	1	UG/L	06/27/2013	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX w/ SGA	<b>92.6</b>	06/25/2013	LAP

U - Analyte analyzed for but not detected at level above reporting limit.



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-58
CLIENT SAMPLE ID	FPP-B17-GW (17)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/21/2013 2:20:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	50	1	UG/L	06/25/2013	DLC
TPH-Diesel Range	NWTPH-DX w/ SGA	U	130	1	UG/L	06/25/2013	LAP
TPH-Oil Range	NWTPH-DX w/ SGA	<b>650</b>	250	1	UG/L	06/25/2013	LAP
Vinyl Chloride	EPA-8260 SIM	U	0.020	1	UG/L	06/28/2013	GAP
Trichloroethene	EPA-8260 SIM	U	0.020	1	UG/L	06/28/2013	GAP
Dichlorodifluoromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Chloromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromomethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Chloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Carbon Disulfide	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Acetone	EPA-8260	U	25	1	UG/L	06/28/2013	GAP
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	06/28/2013	GAP
Acrylonitrile	EPA-8260	U	10	1	UG/L	06/28/2013	GAP
Methyl T-Butyl Ether	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
2-Butanone	EPA-8260	U	10	1	UG/L	06/28/2013	GAP
Cis-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Chloroform	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Benzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Dibromomethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
4-Methyl-2-Pentanone	EPA-8260	U	10	1	UG/L	06/28/2013	GAP
Toluene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
2-Hexanone	EPA-8260	U	10	1	UG/L	06/28/2013	GAP
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/15/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13060128
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-58
<b>CLIENT SAMPLE ID</b>	FPP-B17-GW (17)	<b>DATE RECEIVED:</b>	6/24/2013
		<b>COLLECTION DATE:</b>	6/21/2013 2:20:00 PM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Tetrachloroethylene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	06/28/2013	GAP
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Ethylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
m,p-Xylene	EPA-8260	U	4.0	1	UG/L	06/28/2013	GAP
Styrene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
o-Xylene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromoform	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Isopropylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
N-Propyl Benzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,3,5-Trimethylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
T-Butyl Benzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2,4-Trimethylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
S-Butyl Benzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
P-Isopropyltoluene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,3 Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
N-Butylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	06/28/2013	GAP
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Naphthalene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Pyridine	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
N-Nitrosodimethylamine	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Phenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Aniline	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Bis(2-Chloroethyl)Ether	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2-Chlorophenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
1,3-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP





**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/15/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13060128
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-58
<b>CLIENT SAMPLE ID</b>	FPP-B17-GW (17)	<b>DATE RECEIVED:</b>	6/24/2013
		<b>COLLECTION DATE:</b>	6/21/2013 2:20:00 PM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,4-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Benzyl Alcohol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
1,2-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2-Methylphenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Bis(2-Chloroisopropyl)Ether	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
3&4-Methylphenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
N-Nitroso-Di-N-Propylamine	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Hexachloroethane	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Nitrobenzene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Isophorone	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2-Nitrophenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2,4-Dimethylphenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Benzoic Acid	EPA-8270	U	10	1	UG/L	07/02/2013	LAP
Bis(2-Chloroethoxy)Methane	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2,4-Dichlorophenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
1,2,4-Trichlorobenzene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Naphthalene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
4-Chloroaniline	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2,6-Dichlorophenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Hexachlorobutadiene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
4-Chloro-3-Methylphenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2-Methylnaphthalene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
1-Methylnaphthalene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Hexachlorocyclopentadiene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2,4,6-Trichlorophenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2,4,5-Trichlorophenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2-Chloronaphthalene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2-Nitroaniline	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Acenaphthylene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Dimethylphthalate	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2,6-Dinitrotoluene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Acenaphthene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
3-Nitroaniline	EPA-8270	U	5.0	1	UG/L	07/02/2013	LAP
2,4-Dinitrophenol	EPA-8270	U	10	1	UG/L	07/02/2013	LAP
4-Nitrophenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Dibenzofuran	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2,4-Dinitrotoluene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2,3,4,6-Tetrachlorophenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-58
CLIENT SAMPLE ID	FPP-B17-GW (17)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/21/2013 2:20:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Diethylphthalate	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Fluorene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
4-Chlorophenyl-Phenylether	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
4-Nitroaniline	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
4,6-Dinitro-2-Methylphenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
N-Nitrosodiphenylamine	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Azobenzene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
4-Bromophenyl-Phenylether	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Hexachlorobenzene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Pentachlorophenol	EPA-8270	U	5.0	1	UG/L	07/02/2013	LAP
Phenanthrene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Anthracene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Carbazole	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Di-N-Butylphthalate	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Fluoranthene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Pyrene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Butylbenzylphthalate	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
3,3-Dichlorobenzidine	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Benzo[A]Anthracene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Chrysene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Di-N-Octylphthalate	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Benzo[B]Fluoranthene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Benzo[K]Fluoranthene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Benzo[A]Pyrene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Dibenz[A,H]Anthracene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Benzo[G,H,I]Perylene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Mercury (Dissolved)	EPA-7470	U	0.20	1	UG/L	07/03/2013	RAL
Arsenic (Dissolved)	EPA-200.8	U	1.0	1	UG/L	06/27/2013	RAL
Cadmium (Dissolved)	EPA-200.8	U	1.0	1	UG/L	06/27/2013	RAL
Chromium (Dissolved)	EPA-200.8	U	2.0	1	UG/L	06/27/2013	RAL
Iron (Dissolved)	EPA-200.8	<b>1200</b>	50	1	UG/L	06/27/2013	RAL
Lead (Dissolved)	EPA-200.8	U	1.0	1	UG/L	06/27/2013	RAL
Manganese (Dissolved)	EPA-200.8	<b>1800</b>	2.0	1	UG/L	06/27/2013	RAL
Sodium (Dissolved)	EPA-200.8	<b>47000</b>	50	1	UG/L	06/27/2013	RAL



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/15/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13060128
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-58
<b>CLIENT SAMPLE ID</b>	FPP-B17-GW (17)	<b>DATE RECEIVED:</b>	6/24/2013
		<b>COLLECTION DATE:</b>	6/21/2013 2:20:00 PM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

SURROGATE	METHOD	%REC	ANALYSIS	ANALYSIS
			DATE	BY
TFT	NWTPH-GX	197	06/25/2013	DLC
C25	NWTPH-DX w/ SGA	99.6	06/25/2013	LAP
1,2-Dichloroethane-d4	EPA-8260 SIM	95.9	06/28/2013	GAP
1,2-Dichloroethane-d4	EPA-8260	95.9	06/28/2013	GAP
Toluene-d8	EPA-8260	96.0	06/28/2013	GAP
4-Bromofluorobenzene	EPA-8260	105	06/28/2013	GAP
2-Fluorophenol	EPA-8270	64.6	07/02/2013	LAP
Phenol-d5	EPA-8270	28.1	07/02/2013	LAP
Nitrobenzene-d5	EPA-8270	97.7	07/02/2013	LAP
2-Fluorobiphenyl	EPA-8270	89.4	07/02/2013	LAP
2,4,6-Tribromophenol	EPA-8270	114	07/02/2013	LAP
Terphenyl-d14	EPA-8270	109	07/02/2013	LAP

U - Analyte analyzed for but not detected at level above reporting limit.  
Chromatogram indicates that it is likely that sample contains light oil/lube oil.



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-59
CLIENT SAMPLE ID	TP-B01-GW (19)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/21/2013 8:25:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	50	1	UG/L	06/25/2013	DLC
TPH-Diesel Range	NWTPH-DX w/ SGA	U	130	1	UG/L	06/25/2013	LAP
TPH-Oil Range	NWTPH-DX w/ SGA	U	250	1	UG/L	06/25/2013	LAP
Vinyl Chloride	EPA-8260 SIM	U	0.020	1	UG/L	06/29/2013	GAP
Trichloroethene	EPA-8260 SIM	U	0.020	1	UG/L	06/29/2013	GAP
Dichlorodifluoromethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Chloromethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Bromomethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Chloroethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Carbon Disulfide	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Acetone	EPA-8260	U	25	1	UG/L	06/29/2013	GAP
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	06/29/2013	GAP
Acrylonitrile	EPA-8260	U	10	1	UG/L	06/29/2013	GAP
Methyl T-Butyl Ether	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
2-Butanone	EPA-8260	U	10	1	UG/L	06/29/2013	GAP
Cis-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Chloroform	EPA-8260	2.7	2.0	1	UG/L	06/29/2013	GAP
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Benzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Dibromomethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
4-Methyl-2-Pentanone	EPA-8260	U	10	1	UG/L	06/29/2013	GAP
Toluene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
2-Hexanone	EPA-8260	U	10	1	UG/L	06/29/2013	GAP
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/15/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13060128
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-59
<b>CLIENT SAMPLE ID</b>	TP-B01-GW (19)	<b>DATE RECEIVED:</b>	6/24/2013
		<b>COLLECTION DATE:</b>	6/21/2013 8:25:00 AM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Tetrachloroethylene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	06/29/2013	GAP
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Ethylbenzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
m,p-Xylene	EPA-8260	U	4.0	1	UG/L	06/29/2013	GAP
Styrene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
o-Xylene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Bromoform	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Isopropylbenzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Bromobenzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
N-Propyl Benzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,3,5-Trimethylbenzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
T-Butyl Benzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,2,4-Trimethylbenzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
S-Butyl Benzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
P-Isopropyltoluene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,3 Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
N-Butylbenzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	06/29/2013	GAP
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Naphthalene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Pyridine	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
N-Nitrosodimethylamine	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Phenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Aniline	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Bis(2-Chloroethyl)Ether	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2-Chlorophenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
1,3-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/15/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13060128
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-59
<b>CLIENT SAMPLE ID</b>	TP-B01-GW (19)	<b>DATE RECEIVED:</b>	6/24/2013
		<b>COLLECTION DATE:</b>	6/21/2013 8:25:00 AM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,4-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Benzyl Alcohol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
1,2-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2-Methylphenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Bis(2-Chloroisopropyl)Ether	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
3&4-Methylphenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
N-Nitroso-Di-N-Propylamine	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Hexachloroethane	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Nitrobenzene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Isophorone	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2-Nitrophenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2,4-Dimethylphenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Benzoic Acid	EPA-8270	U	10	1	UG/L	07/02/2013	LAP
Bis(2-Chloroethoxy)Methane	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2,4-Dichlorophenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
1,2,4-Trichlorobenzene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Naphthalene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
4-Chloroaniline	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2,6-Dichlorophenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Hexachlorobutadiene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
4-Chloro-3-Methylphenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2-Methylnaphthalene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
1-Methylnaphthalene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Hexachlorocyclopentadiene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2,4,6-Trichlorophenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2,4,5-Trichlorophenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2-Chloronaphthalene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2-Nitroaniline	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Acenaphthylene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Dimethylphthalate	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2,6-Dinitrotoluene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Acenaphthene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
3-Nitroaniline	EPA-8270	U	5.0	1	UG/L	07/02/2013	LAP
2,4-Dinitrophenol	EPA-8270	U	10	1	UG/L	07/02/2013	LAP
4-Nitrophenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Dibenzofuran	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2,4-Dinitrotoluene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2,3,4,6-Tetrachlorophenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-59
CLIENT SAMPLE ID	TP-B01-GW (19)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/21/2013 8:25:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Diethylphthalate	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Fluorene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
4-Chlorophenyl-Phenylether	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
4-Nitroaniline	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
4,6-Dinitro-2-Methylphenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
N-Nitrosodiphenylamine	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Azobenzene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
4-Bromophenyl-Phenylether	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Hexachlorobenzene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Pentachlorophenol	EPA-8270	U	5.0	1	UG/L	07/02/2013	LAP
Phenanthrene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Anthracene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Carbazole	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Di-N-Butylphthalate	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Fluoranthene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Pyrene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Butylbenzylphthalate	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
3,3-Dichlorobenzidine	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Benzo[A]Anthracene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Chrysene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Di-N-Octylphthalate	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Benzo[B]Fluoranthene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Benzo[K]Fluoranthene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Benzo[A]Pyrene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Dibenz[A,H]Anthracene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Benzo[G,H,I]Perylene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Mercury (Dissolved)	EPA-7470	U	0.20	1	UG/L	07/03/2013	RAL
Arsenic (Dissolved)	EPA-200.8	U	1.0	1	UG/L	06/27/2013	RAL
Cadmium (Dissolved)	EPA-200.8	U	1.0	1	UG/L	06/27/2013	RAL
Chromium (Dissolved)	EPA-200.8	U	2.0	1	UG/L	06/27/2013	RAL
Iron (Dissolved)	EPA-200.8	86	50	1	UG/L	06/27/2013	RAL
Lead (Dissolved)	EPA-200.8	U	1.0	1	UG/L	06/27/2013	RAL
Manganese (Dissolved)	EPA-200.8	72	2.0	1	UG/L	06/27/2013	RAL
Sodium (Dissolved)	EPA-200.8	7600	50	1	UG/L	06/27/2013	RAL



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-59
CLIENT SAMPLE ID	TP-B01-GW (19)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/21/2013 8:25:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

SURROGATE	METHOD	%REC	ANALYSIS	ANALYSIS
			DATE	BY
TFT	NWTPH-GX	97.0	06/25/2013	DLC
C25	NWTPH-DX w/ SGA	107	06/25/2013	LAP
1,2-Dichloroethane-d4	EPA-8260 SIM	104	06/29/2013	GAP
1,2-Dichloroethane-d4	EPA-8260	104	06/29/2013	GAP
Toluene-d8	EPA-8260	93.2	06/29/2013	GAP
4-Bromofluorobenzene	EPA-8260	100	06/29/2013	GAP
2-Fluorophenol	EPA-8270	60.7	07/02/2013	LAP
Phenol-d5	EPA-8270	26.5	07/02/2013	LAP
Nitrobenzene-d5	EPA-8270	91.6	07/02/2013	LAP
2-Fluorobiphenyl	EPA-8270	86.8	07/02/2013	LAP
2,4,6-Tribromophenol	EPA-8270	95.6	07/02/2013	LAP
Terphenyl-d14	EPA-8270	102	07/02/2013	LAP

U - Analyte analyzed for but not detected at level above reporting limit.





**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-60
CLIENT SAMPLE ID	FPP-B03-GW (17)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/18/2013 5:40:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	U	130	1	UG/L	06/25/2013	LAP
TPH-Oil Range	NWTPH-DX w/ SGA	U	250	1	UG/L	06/25/2013	LAP
Mercury (Dissolved)	EPA-7470	U	0.20	1	UG/L	07/03/2013	RAL
Arsenic (Dissolved)	EPA-200.8	U	1.0	1	UG/L	06/27/2013	RAL
Cadmium (Dissolved)	EPA-200.8	U	1.0	1	UG/L	06/27/2013	RAL
Chromium (Dissolved)	EPA-200.8	U	2.0	1	UG/L	06/27/2013	RAL
Iron (Dissolved)	EPA-200.8	U	50	1	UG/L	06/27/2013	RAL
Lead (Dissolved)	EPA-200.8	U	1.0	1	UG/L	06/27/2013	RAL
Manganese (Dissolved)	EPA-200.8	<b>1900</b>	2.0	1	UG/L	06/27/2013	RAL
Sodium (Dissolved)	EPA-200.8	<b>19000</b>	50	1	UG/L	06/27/2013	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX w/ SGA	<b>103</b>	06/25/2013	LAP

U - Analyte analyzed for but not detected at level above reporting limit.



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/15/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13060128
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-61
<b>CLIENT SAMPLE ID</b>	TP-B09-GW (18)	<b>DATE RECEIVED:</b>	6/24/2013
		<b>COLLECTION DATE:</b>	6/21/2013 10:35:00 AM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	50	1	UG/L	06/25/2013	DLC
TPH-Diesel Range	NWTPH-DX w/ SGA	U	130	1	UG/L	06/26/2013	LAP
TPH-Oil Range	NWTPH-DX w/ SGA	U	250	1	UG/L	06/26/2013	LAP
Vinyl Chloride	EPA-8260 SIM	U	0.020	1	UG/L	06/29/2013	GAP
Trichloroethene	EPA-8260 SIM	U	0.020	1	UG/L	06/29/2013	GAP
Dichlorodifluoromethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Chloromethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Bromomethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Chloroethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Carbon Disulfide	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Acetone	EPA-8260	U	25	1	UG/L	06/29/2013	GAP
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	06/29/2013	GAP
Acrylonitrile	EPA-8260	U	10	1	UG/L	06/29/2013	GAP
Methyl T-Butyl Ether	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
2-Butanone	EPA-8260	U	10	1	UG/L	06/29/2013	GAP
Cis-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Chloroform	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Benzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Dibromomethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
4-Methyl-2-Pentanone	EPA-8260	U	10	1	UG/L	06/29/2013	GAP
Toluene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
2-Hexanone	EPA-8260	U	10	1	UG/L	06/29/2013	GAP
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/15/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13060128
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-61
<b>CLIENT SAMPLE ID</b>	TP-B09-GW (18)	<b>DATE RECEIVED:</b>	6/24/2013
		<b>COLLECTION DATE:</b>	6/21/2013 10:35:00 AM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Tetrachloroethylene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	06/29/2013	GAP
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Ethylbenzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
m,p-Xylene	EPA-8260	U	4.0	1	UG/L	06/29/2013	GAP
Styrene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
o-Xylene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Bromoform	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Isopropylbenzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Bromobenzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
N-Propyl Benzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,3,5-Trimethylbenzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
T-Butyl Benzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,2,4-Trimethylbenzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
S-Butyl Benzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
P-Isopropyltoluene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,3 Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
N-Butylbenzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	06/29/2013	GAP
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Naphthalene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Pyridine	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
N-Nitrosodimethylamine	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Phenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Aniline	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Bis(2-Chloroethyl)Ether	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2-Chlorophenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
1,3-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/15/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13060128
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-61
<b>CLIENT SAMPLE ID</b>	TP-B09-GW (18)	<b>DATE RECEIVED:</b>	6/24/2013
		<b>COLLECTION DATE:</b>	6/21/2013 10:35:00 AM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,4-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Benzyl Alcohol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
1,2-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2-Methylphenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Bis(2-Chloroisopropyl)Ether	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
3&4-Methylphenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
N-Nitroso-Di-N-Propylamine	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Hexachloroethane	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Nitrobenzene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Isophorone	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2-Nitrophenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2,4-Dimethylphenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Benzoic Acid	EPA-8270	U	10	1	UG/L	07/02/2013	LAP
Bis(2-Chloroethoxy)Methane	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2,4-Dichlorophenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
1,2,4-Trichlorobenzene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Naphthalene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
4-Chloroaniline	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2,6-Dichlorophenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Hexachlorobutadiene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
4-Chloro-3-Methylphenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2-Methylnaphthalene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
1-Methylnaphthalene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Hexachlorocyclopentadiene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2,4,6-Trichlorophenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2,4,5-Trichlorophenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2-Chloronaphthalene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2-Nitroaniline	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Acenaphthylene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Dimethylphthalate	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2,6-Dinitrotoluene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Acenaphthene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
3-Nitroaniline	EPA-8270	U	5.0	1	UG/L	07/02/2013	LAP
2,4-Dinitrophenol	EPA-8270	U	10	1	UG/L	07/02/2013	LAP
4-Nitrophenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Dibenzofuran	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2,4-Dinitrotoluene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
2,3,4,6-Tetrachlorophenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-61
CLIENT SAMPLE ID	TP-B09-GW (18)	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/21/2013 10:35:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Diethylphthalate	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Fluorene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
4-Chlorophenyl-Phenylether	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
4-Nitroaniline	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
4,6-Dinitro-2-Methylphenol	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
N-Nitrosodiphenylamine	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Azobenzene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
4-Bromophenyl-Phenylether	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Hexachlorobenzene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Pentachlorophenol	EPA-8270	U	5.0	1	UG/L	07/02/2013	LAP
Phenanthrene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Anthracene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Carbazole	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Di-N-Butylphthalate	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Fluoranthene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Pyrene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Butylbenzylphthalate	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
3,3-Dichlorobenzidine	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Benzo[A]Anthracene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Chrysene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Di-N-Octylphthalate	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Benzo[B]Fluoranthene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Benzo[K]Fluoranthene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Benzo[A]Pyrene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Dibenz[A,H]Anthracene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Benzo[G,H,I]Perylene	EPA-8270	U	2.0	1	UG/L	07/02/2013	LAP
Mercury (Dissolved)	EPA-7470	U	0.20	1	UG/L	07/03/2013	RAL
Arsenic (Dissolved)	EPA-200.8	U	1.0	1	UG/L	06/27/2013	RAL
Cadmium (Dissolved)	EPA-200.8	U	1.0	1	UG/L	06/27/2013	RAL
Chromium (Dissolved)	EPA-200.8	U	2.0	1	UG/L	06/27/2013	RAL
Iron (Dissolved)	EPA-200.8	<b>96</b>	50	1	UG/L	06/27/2013	RAL
Lead (Dissolved)	EPA-200.8	U	1.0	1	UG/L	06/27/2013	RAL
Manganese (Dissolved)	EPA-200.8	<b>1300</b>	2.0	1	UG/L	06/27/2013	RAL
Sodium (Dissolved)	EPA-200.8	<b>18000</b>	50	1	UG/L	06/27/2013	RAL



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/15/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13060128
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-61
<b>CLIENT SAMPLE ID</b>	TP-B09-GW (18)	<b>DATE RECEIVED:</b>	6/24/2013
		<b>COLLECTION DATE:</b>	6/21/2013 10:35:00 AM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

SURROGATE	METHOD	%REC	ANALYSIS	ANALYSIS
			DATE	BY
TFT	NWTPH-GX	98.7	06/25/2013	DLC
C25	NWTPH-DX w/ SGA	71.6	06/26/2013	LAP
1,2-Dichloroethane-d4	EPA-8260 SIM	103	06/29/2013	GAP
1,2-Dichloroethane-d4	EPA-8260	103	06/29/2013	GAP
Toluene-d8	EPA-8260	93.1	06/29/2013	GAP
4-Bromofluorobenzene	EPA-8260	99.2	06/29/2013	GAP
2-Fluorophenol	EPA-8270	62.1	07/02/2013	LAP
Phenol-d5	EPA-8270	28.3	07/02/2013	LAP
Nitrobenzene-d5	EPA-8270	90.7	07/02/2013	LAP
2-Fluorobiphenyl	EPA-8270	87.9	07/02/2013	LAP
2,4,6-Tribromophenol	EPA-8270	101	07/02/2013	LAP
Terphenyl-d14	EPA-8270	90.4	07/02/2013	LAP

U - Analyte analyzed for but not detected at level above reporting limit.



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-62
CLIENT SAMPLE ID	FPP-SW-01	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/20/2013 7:55:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
HCID-Gas Range	NWTPH-HCID	U	130	1	UG/L	06/25/2013	LAP
HCID-Diesel Range	NWTPH-HCID	U	310	1	UG/L	06/25/2013	LAP
HCID-Oil Range	NWTPH-HCID	>310	310	1	UG/L	07/01/2013	EBS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
BCB	NWTPH-HCID	57.0	06/25/2013	LAP
C25	NWTPH-HCID	65.5	06/25/2013	LAP
C25 (conc)	NWTPH-HCID	72.6	07/01/2013	EBS

U - Analyte analyzed for but not detected at level above reporting limit.  
 Chromatogram indicates that it is likely that sample contains lube oil.  
 Chromatogram indicates that it is likely that sample contains lube oil.



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-63
CLIENT SAMPLE ID	FPP-SW-02	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/20/2013 8:12:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
HCID-Gas Range	NWTPH-HCID	U	130	1	UG/L	06/25/2013	LAP
HCID-Diesel Range	NWTPH-HCID	U	310	1	UG/L	06/25/2013	LAP
HCID-Oil Range	NWTPH-HCID	U	310	1	UG/L	07/01/2013	EBS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
BCB	NWTPH-HCID	71.8	06/25/2013	LAP
C25	NWTPH-HCID	70.9	06/25/2013	LAP
C25 (conc)	NWTPH-HCID	70.0	07/01/2013	EBS

U - Analyte analyzed for but not detected at level above reporting limit.





**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-64
CLIENT SAMPLE ID	FPP-SW-03	DATE RECEIVED:	6/24/2013
		COLLECTION DATE:	6/20/2013 8:27:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
HCID-Gas Range	NWTPH-HCID	U	130	1	UG/L	06/25/2013	LAP
HCID-Diesel Range	NWTPH-HCID	>310	310	1	UG/L	06/25/2013	LAP
HCID-Oil Range	NWTPH-HCID	>310	310	1	UG/L	07/01/2013	EBS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
BCB	NWTPH-HCID	72.0	06/25/2013	LAP
C25	NWTPH-HCID	76.3	06/25/2013	LAP
C25 (conc)	NWTPH-HCID	94.0	07/01/2013	EBS

U - Analyte analyzed for but not detected at level above reporting limit.  
 Chromatogram indicates that it is likely that sample contains an unidentified oil range product.  
 Chromatogram indicates that it is likely that sample contains an unidentified oil range product.



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/15/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13060128
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-65
<b>CLIENT SAMPLE ID</b>	TRIP BLANKS	<b>DATE RECEIVED:</b>	6/24/2013
		<b>COLLECTION DATE:</b>	6/20/2013 8:00:00 AM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	50	1	UG/L	06/24/2013	DLC
Vinyl Chloride	EPA-8260 SIM	U	0.020	1	UG/L	06/29/2013	GAP
Trichloroethene	EPA-8260 SIM	U	0.020	1	UG/L	06/29/2013	GAP
Dichlorodifluoromethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Chloromethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Bromomethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Chloroethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Carbon Disulfide	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Acetone	EPA-8260	U	25	1	UG/L	06/29/2013	GAP
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	06/29/2013	GAP
Acrylonitrile	EPA-8260	U	10	1	UG/L	06/29/2013	GAP
Methyl T-Butyl Ether	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
2-Butanone	EPA-8260	U	10	1	UG/L	06/29/2013	GAP
Cis-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Chloroform	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Benzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Dibromomethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
4-Methyl-2-Pentanone	EPA-8260	U	10	1	UG/L	06/29/2013	GAP
Toluene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
2-Hexanone	EPA-8260	U	10	1	UG/L	06/29/2013	GAP
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Tetrachloroethylene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/15/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13060128
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-65
<b>CLIENT SAMPLE ID</b>	TRIP BLANKS	<b>DATE RECEIVED:</b>	6/24/2013
		<b>COLLECTION DATE:</b>	6/20/2013 8:00:00 AM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	06/29/2013	GAP
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Ethylbenzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
m,p-Xylene	EPA-8260	U	4.0	1	UG/L	06/29/2013	GAP
Styrene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
o-Xylene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Bromoform	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Isopropylbenzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,1,2,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Bromobenzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
N-Propyl Benzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,3,5-Trimethylbenzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
T-Butyl Benzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,2,4-Trimethylbenzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
S-Butyl Benzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
P-Isopropyltoluene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,3 Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
N-Butylbenzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	06/29/2013	GAP
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
Naphthalene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/29/2013	GAP

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	95.9	06/24/2013	DLC
1,2-Dichloroethane-d4	EPA-8260 SIM	103	06/29/2013	GAP
1,2-Dichloroethane-d4	EPA-8260	103	06/29/2013	GAP
Toluene-d8	EPA-8260	92.9	06/29/2013	GAP
4-Bromofluorobenzene	EPA-8260	98.3	06/29/2013	GAP

U - Analyte analyzed for but not detected at level above reporting limit.





**CERTIFICATE OF ANALYSIS**

CLIENT: Landau Associates, Inc. DATE: 7/15/2013  
 130 - 2nd Ave. S. ALS SDG#: EV13060128  
 Edmonds, WA 98020 WDOE ACCREDITATION: C601  
 CLIENT CONTACT: Jeffrey Fellows  
 CLIENT PROJECT: Yakima Mill Site / #1148007.010

**LABORATORY BLANK RESULTS**

**MB-061813W - Batch 3838 - Water by NWTPH-HCID**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
HCID-Gas Range	NWTPH-HCID	U	130	1	UG/L	06/19/2013	LAP
HCID-Diesel Range	NWTPH-HCID	U	310	1	UG/L	06/19/2013	LAP
HCID-Oil Range	NWTPH-HCID	U	310	1	UG/L	06/19/2013	LAP

**MBG-061713S - Batch 3830 - Soil by NWTPH-GX**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	06/17/2013	DLC

**MBG-062413S2 - Batch 3849 - Soil by NWTPH-GX**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	3.0	1	MG/KG	06/24/2013	GAP

**MBG-062413W - Batch 3841 - Water by NWTPH-GX**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	50	1	UG/L	06/24/2013	DLC

**MB-062113S - Batch 3837 - Soil by NWTPH-DX**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX	U	25	1	MG/KG	06/21/2013	LAP
TPH-Oil Range	NWTPH-DX	U	50	1	MG/KG	06/21/2013	LAP

**MB-062613S - Batch 3860 - Soil by NWTPH-DX**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX	U	25	1	MG/KG	06/26/2013	LAP
TPH-Oil Range	NWTPH-DX	U	50	1	MG/KG	06/26/2013	LAP

**MB-062613S2 - Batch 3861 - Soil by NWTPH-DX**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX	U	25	1	MG/KG	06/27/2013	LAP
TPH-Oil Range	NWTPH-DX	U	50	1	MG/KG	06/27/2013	LAP



**CERTIFICATE OF ANALYSIS**

CLIENT: Landau Associates, Inc. DATE: 7/15/2013  
 130 - 2nd Ave. S. ALS SDG#: EV13060128  
 Edmonds, WA 98020 WDOE ACCREDITATION: C601

CLIENT CONTACT: Jeffrey Fellows  
 CLIENT PROJECT: Yakima Mill Site / #1148007.010

**LABORATORY BLANK RESULTS**

**MB-062513W - Batch 3858 - Water by NWTPH-DX**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX	U	130	1	UG/L	06/25/2013	LAP
TPH-Oil Range	NWTPH-DX	U	250	1	UG/L	06/25/2013	LAP

**MB-062813W - Batch 3856 - Water by EPA-8260 SIM**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Vinyl Chloride	EPA-8260 SIM	U	0.020	1	UG/L	06/28/2013	GAP
1,1-Dichloroethene	EPA-8260 SIM	U	0.020	1	UG/L	06/28/2013	GAP
Trichloroethene	EPA-8260 SIM	U	0.020	1	UG/L	06/28/2013	GAP

**MB-062813S - Batch 3857 - Soil by EPA-8260**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Chloromethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Vinyl Chloride	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Bromomethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Chloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Carbon Tetrachloride	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Trichlorofluoromethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Carbon Disulfide	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Acetone	EPA-8260	U	50	1	UG/KG	06/28/2013	GAP
1,1-Dichloroethene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Methylene Chloride	EPA-8260	U	20	1	UG/KG	06/28/2013	GAP
Acrylonitrile	EPA-8260	U	50	1	UG/KG	06/28/2013	GAP
Methyl T-Butyl Ether	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Trans-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,1-Dichloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
2-Butanone	EPA-8260	U	50	1	UG/KG	06/28/2013	GAP
Cis-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
2,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Bromochloromethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Chloroform	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,1,1-Trichloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,1-Dichloropropene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2-Dichloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Benzene	EPA-8260	U	5.0	1	UG/KG	06/28/2013	GAP
Trichloroethene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/15/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS SDG#:</b>	EV13060128
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>WDOE ACCREDITATION:</b>	C601

**LABORATORY BLANK RESULTS**

**MB-062813S - Batch 3857 - Soil by EPA-8260**

1,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Dibromomethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Bromodichloromethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Trans-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
4-Methyl-2-Pentanone	EPA-8260	U	50	1	UG/KG	06/28/2013	GAP
Toluene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Cis-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,1,2-Trichloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
2-Hexanone	EPA-8260	U	50	1	UG/KG	06/28/2013	GAP
1,3-Dichloropropane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Tetrachloroethylene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Dibromochloromethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2-Dibromoethane	EPA-8260	U	5.0	1	UG/KG	06/28/2013	GAP
Chlorobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Ethylbenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
m,p-Xylene	EPA-8260	U	20	1	UG/KG	06/28/2013	GAP
Styrene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
o-Xylene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Bromoform	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Isopropylbenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,1,2,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2,3-Trichloropropane	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Bromobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
N-Propyl Benzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
2-Chlorotoluene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,3,5-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
4-Chlorotoluene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
T-Butyl Benzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2,4-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
S-Butyl Benzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
P-Isopropyltoluene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,3 Dichlorobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,4-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
N-Butylbenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	U	50	1	UG/KG	06/28/2013	GAP
1,2,4-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Hexachlorobutadiene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP
Naphthalene	EPA-8260	U	10	1	UG/KG	06/28/2013	GAP



**CERTIFICATE OF ANALYSIS**

CLIENT: Landau Associates, Inc. DATE: 7/15/2013  
 130 - 2nd Ave. S. ALS SDG#: EV13060128  
 Edmonds, WA 98020 WDOE ACCREDITATION: C601  
 CLIENT CONTACT: Jeffrey Fellows  
 CLIENT PROJECT: Yakima Mill Site / #1148007.010

**LABORATORY BLANK RESULTS**

**MB-062813S - Batch 3857 - Soil by EPA-8260**

1,2,3-Trichlorobenzene EPA-8260 U 10 1 UG/KG 06/28/2013 GAP

**MB-070113S - Batch 3865 - Soil by EPA-8260**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Chloromethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Vinyl Chloride	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Bromomethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Chloroethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Carbon Tetrachloride	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Trichlorofluoromethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Carbon Disulfide	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Acetone	EPA-8260	U	50	1	UG/KG	07/01/2013	GAP
1,1-Dichloroethene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Methylene Chloride	EPA-8260	U	20	1	UG/KG	07/01/2013	GAP
Acrylonitrile	EPA-8260	U	50	1	UG/KG	07/01/2013	GAP
Methyl T-Butyl Ether	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Trans-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,1-Dichloroethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
2-Butanone	EPA-8260	U	50	1	UG/KG	07/01/2013	GAP
Cis-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
2,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Bromochloromethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Chloroform	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,1,1-Trichloroethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,1-Dichloropropene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,2-Dichloroethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Benzene	EPA-8260	U	5.0	1	UG/KG	07/01/2013	GAP
Trichloroethene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Dibromomethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Bromodichloromethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Trans-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
4-Methyl-2-Pentanone	EPA-8260	U	50	1	UG/KG	07/01/2013	GAP
Toluene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Cis-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,1,2-Trichloroethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
2-Hexanone	EPA-8260	U	50	1	UG/KG	07/01/2013	GAP
1,3-Dichloropropane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP





**CERTIFICATE OF ANALYSIS**

CLIENT: Landau Associates, Inc. DATE: 7/15/2013  
 130 - 2nd Ave. S. ALS SDG#: EV13060128  
 Edmonds, WA 98020 WDOE ACCREDITATION: C601

CLIENT CONTACT: Jeffrey Fellows  
 CLIENT PROJECT: Yakima Mill Site / #1148007.010

**LABORATORY BLANK RESULTS**

**MB-070113S - Batch 3865 - Soil by EPA-8260**

Tetrachloroethylene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Dibromochloromethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,2-Dibromoethane	EPA-8260	U	5.0	1	UG/KG	07/01/2013	GAP
Chlorobenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Ethylbenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
m,p-Xylene	EPA-8260	U	20	1	UG/KG	07/01/2013	GAP
Styrene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
o-Xylene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Bromoform	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Isopropylbenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,2,3-Trichloropropane	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Bromobenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
N-Propyl Benzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
2-Chlorotoluene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,3,5-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
4-Chlorotoluene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
T-Butyl Benzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,2,4-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
S-Butyl Benzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
P-Isopropyltoluene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,3 Dichlorobenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,4-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
N-Butylbenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,2-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	U	50	1	UG/KG	07/01/2013	GAP
1,2,4-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Hexachlorobutadiene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
Naphthalene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP
1,2,3-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	07/01/2013	GAP

**MB-062813W - Batch 3855 - Water by EPA-8260**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Chloromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromomethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Chloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	7/15/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS SDG#:</b>	EV13060128
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>WDOE ACCREDITATION:</b>	C601

**LABORATORY BLANK RESULTS**

**MB-062813W - Batch 3855 - Water by EPA-8260**

Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Carbon Disulfide	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Acetone	EPA-8260	U	25	1	UG/L	06/28/2013	GAP
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	06/28/2013	GAP
Acrylonitrile	EPA-8260	U	10	1	UG/L	06/28/2013	GAP
Methyl T-Butyl Ether	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
2-Butanone	EPA-8260	U	10	1	UG/L	06/28/2013	GAP
Cis-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Chloroform	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Benzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Trichloroethene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Dibromomethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
4-Methyl-2-Pentanone	EPA-8260	U	10	1	UG/L	06/28/2013	GAP
Toluene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
2-Hexanone	EPA-8260	U	10	1	UG/L	06/28/2013	GAP
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Tetrachloroethylene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	06/28/2013	GAP
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Ethylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
m,p-Xylene	EPA-8260	U	4.0	1	UG/L	06/28/2013	GAP
Styrene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
o-Xylene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromoform	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Isopropylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS SDG#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	WDOE ACCREDITATION:	C601

**LABORATORY BLANK RESULTS**

**MB-062813W - Batch 3855 - Water by EPA-8260**

1,1,2,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Bromobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
N-Propyl Benzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,3,5-Trimethylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
T-Butyl Benzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2,4-Trimethylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
S-Butyl Benzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
P-Isopropyltoluene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,3 Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
N-Butylbenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	06/28/2013	GAP
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
Naphthalene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	06/28/2013	GAP

**MB2-070113S - Batch 3901 - Soil by EPA-8270 SIM**

ANALYTE	METHOD	RESULTS	REPORTING	DILUTION	UNITS	ANALYSIS	ANALYSIS
			LIMITS	FACTOR		DATE	BY
Naphthalene	EPA-8270 SIM	U	0.010	1	MG/KG	07/02/2013	LAP
2-Methylnaphthalene	EPA-8270 SIM	U	0.010	1	MG/KG	07/02/2013	LAP
1-Methylnaphthalene	EPA-8270 SIM	U	0.010	1	MG/KG	07/02/2013	LAP
Acenaphthylene	EPA-8270 SIM	U	0.010	1	MG/KG	07/02/2013	LAP
Acenaphthene	EPA-8270 SIM	U	0.010	1	MG/KG	07/02/2013	LAP
Fluorene	EPA-8270 SIM	U	0.010	1	MG/KG	07/02/2013	LAP
Phenanthrene	EPA-8270 SIM	U	0.010	1	MG/KG	07/02/2013	LAP
Anthracene	EPA-8270 SIM	U	0.010	1	MG/KG	07/02/2013	LAP
Fluoranthene	EPA-8270 SIM	U	0.010	1	MG/KG	07/02/2013	LAP
Pyrene	EPA-8270 SIM	U	0.010	1	MG/KG	07/02/2013	LAP
Benzo[A]Anthracene	EPA-8270 SIM	U	0.010	1	MG/KG	07/02/2013	LAP
Chrysene	EPA-8270 SIM	U	0.010	1	MG/KG	07/02/2013	LAP
Benzo[B]Fluoranthene	EPA-8270 SIM	U	0.010	1	MG/KG	07/02/2013	LAP
Benzo[K]Fluoranthene	EPA-8270 SIM	U	0.010	1	MG/KG	07/02/2013	LAP
Benzo[A]Pyrene	EPA-8270 SIM	U	0.010	1	MG/KG	07/02/2013	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	0.010	1	MG/KG	07/02/2013	LAP



**CERTIFICATE OF ANALYSIS**

CLIENT: Landau Associates, Inc. DATE: 7/15/2013  
 130 - 2nd Ave. S. ALS SDG#: EV13060128  
 Edmonds, WA 98020 WDOE ACCREDITATION: C601

CLIENT CONTACT: Jeffrey Fellows  
 CLIENT PROJECT: Yakima Mill Site / #1148007.010

**LABORATORY BLANK RESULTS**

**MB2-070113S - Batch 3901 - Soil by EPA-8270 SIM**

Dibenz[A,H]Anthracene	EPA-8270 SIM	U	0.010	1	MG/KG	07/02/2013	LAP
Benzo[G,H,I]Perylene	EPA-8270 SIM	U	0.010	1	MG/KG	07/02/2013	LAP

**MB2-070313S - Batch 3902 - Soil by EPA-8270 SIM**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Naphthalene	EPA-8270 SIM	U	0.010	1	MG/KG	07/09/2013	LAP
2-Methylnaphthalene	EPA-8270 SIM	U	0.010	1	MG/KG	07/09/2013	LAP
1-Methylnaphthalene	EPA-8270 SIM	U	0.010	1	MG/KG	07/09/2013	LAP
Acenaphthylene	EPA-8270 SIM	U	0.010	1	MG/KG	07/09/2013	LAP
Acenaphthene	EPA-8270 SIM	U	0.010	1	MG/KG	07/09/2013	LAP
Fluorene	EPA-8270 SIM	U	0.010	1	MG/KG	07/09/2013	LAP
Phenanthrene	EPA-8270 SIM	U	0.010	1	MG/KG	07/09/2013	LAP
Anthracene	EPA-8270 SIM	U	0.010	1	MG/KG	07/09/2013	LAP
Fluoranthene	EPA-8270 SIM	U	0.010	1	MG/KG	07/09/2013	LAP
Pyrene	EPA-8270 SIM	U	0.010	1	MG/KG	07/09/2013	LAP
Benzo[A]Anthracene	EPA-8270 SIM	U	0.010	1	MG/KG	07/09/2013	LAP
Chrysene	EPA-8270 SIM	U	0.010	1	MG/KG	07/09/2013	LAP
Benzo[B]Fluoranthene	EPA-8270 SIM	U	0.010	1	MG/KG	07/09/2013	LAP
Benzo[K]Fluoranthene	EPA-8270 SIM	U	0.010	1	MG/KG	07/09/2013	LAP
Benzo[A]Pyrene	EPA-8270 SIM	U	0.010	1	MG/KG	07/09/2013	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270 SIM	U	0.010	1	MG/KG	07/09/2013	LAP
Dibenz[A,H]Anthracene	EPA-8270 SIM	U	0.010	1	MG/KG	07/09/2013	LAP
Benzo[G,H,I]Perylene	EPA-8270 SIM	U	0.010	1	MG/KG	07/09/2013	LAP

**MB-070113S - Batch 3897 - Soil by EPA-8270**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Pyridine	EPA-8270	U	200	1	UG/KG	07/02/2013	LAP
N-Nitrosodimethylamine	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
Phenol	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
Aniline	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
Bis(2-Chloroethyl)Ether	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
2-Chlorophenol	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
1,3-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
1,4-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
Benzyl Alcohol	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
1,2-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
2-Methylphenol	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
Bis(2-Chloroisopropyl)Ether	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS SDG#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	WDOE ACCREDITATION:	C601

**LABORATORY BLANK RESULTS**

**MB-070113S - Batch 3897 - Soil by EPA-8270**

3&4-Methylphenol	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
N-Nitroso-Di-N-Propylamine	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
Hexachloroethane	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
Nitrobenzene	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
Isophorone	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
2-Nitrophenol	EPA-8270	U	250	1	UG/KG	07/02/2013	LAP
2,4-Dimethylphenol	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
Benzoic Acid	EPA-8270	U	1000	1	UG/KG	07/02/2013	LAP
Bis(2-Chloroethoxy)Methane	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
2,4-Dichlorophenol	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
1,2,4-Trichlorobenzene	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
4-Chloroaniline	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
2,6-Dichlorophenol	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
Hexachlorobutadiene	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
4-Chloro-3-Methylphenol	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
Hexachlorocyclopentadiene	EPA-8270	U	500	1	UG/KG	07/02/2013	LAP
2,4,6-Trichlorophenol	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
2,4,5-Trichlorophenol	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
2-Chloronaphthalene	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
2-Nitroaniline	EPA-8270	U	250	1	UG/KG	07/02/2013	LAP
Dimethylphthalate	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
2,6-Dinitrotoluene	EPA-8270	U	250	1	UG/KG	07/02/2013	LAP
Acenaphthene	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
3-Nitroaniline	EPA-8270	U	250	1	UG/KG	07/02/2013	LAP
2,4-Dinitrophenol	EPA-8270	U	250	1	UG/KG	07/02/2013	LAP
4-Nitrophenol	EPA-8270	U	500	1	UG/KG	07/02/2013	LAP
Dibenzofuran	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
2,4-Dinitrotoluene	EPA-8270	U	250	1	UG/KG	07/02/2013	LAP
2,3,4,6-Tetrachlorophenol	EPA-8270	U	250	1	UG/KG	07/02/2013	LAP
Diethylphthalate	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
4-Chlorophenyl-Phenylether	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
4-Nitroaniline	EPA-8270	U	250	1	UG/KG	07/02/2013	LAP
4,6-Dinitro-2-Methylphenol	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
N-Nitrosodiphenylamine	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
Azobenzene	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
4-Bromophenyl-Phenylether	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
Hexachlorobenzene	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
Pentachlorophenol	EPA-8270	U	500	1	UG/KG	07/02/2013	LAP
Carbazole	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
Di-N-Butylphthalate	EPA-8270	U	130	1	UG/KG	07/02/2013	LAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS SDG#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	WDOE ACCREDITATION:	C601

**LABORATORY BLANK RESULTS**

**MB-070113S - Batch 3897 - Soil by EPA-8270**

Pyrene	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
Butylbenzylphthalate	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP
3,3-Dichlorobenzidine	EPA-8270	U	250	1	UG/KG	07/02/2013	LAP
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	130	1	UG/KG	07/02/2013	LAP
Di-N-Octylphthalate	EPA-8270	U	100	1	UG/KG	07/02/2013	LAP

**MB-070313S - Batch 3898 - Soil by EPA-8270**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Pyridine	EPA-8270	U	200	1	UG/KG	07/09/2013	LAP
N-Nitrosodimethylamine	EPA-8270	U	100	1	UG/KG	07/09/2013	LAP
Phenol	EPA-8270	U	100	1	UG/KG	07/09/2013	LAP
Aniline	EPA-8270	U	100	1	UG/KG	07/09/2013	LAP
Bis(2-Chloroethyl)Ether	EPA-8270	U	100	1	UG/KG	07/09/2013	LAP
2-Chlorophenol	EPA-8270	U	100	1	UG/KG	07/09/2013	LAP
1,3-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	07/09/2013	LAP
1,4-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	07/09/2013	LAP
Benzyl Alcohol	EPA-8270	U	100	1	UG/KG	07/09/2013	LAP
1,2-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	07/09/2013	LAP
2-Methylphenol	EPA-8270	U	100	1	UG/KG	07/09/2013	LAP
Bis(2-Chloroisopropyl)Ether	EPA-8270	U	100	1	UG/KG	07/09/2013	LAP
3&4-Methylphenol	EPA-8270	U	100	1	UG/KG	07/09/2013	LAP
N-Nitroso-Di-N-Propylamine	EPA-8270	U	100	1	UG/KG	07/09/2013	LAP
Hexachloroethane	EPA-8270	U	100	1	UG/KG	07/09/2013	LAP
Nitrobenzene	EPA-8270	U	100	1	UG/KG	07/09/2013	LAP
Isophorone	EPA-8270	U	100	1	UG/KG	07/09/2013	LAP
2-Nitrophenol	EPA-8270	U	250	1	UG/KG	07/09/2013	LAP
2,4-Dimethylphenol	EPA-8270	U	100	1	UG/KG	07/09/2013	LAP
Benzoic Acid	EPA-8270	U	1000	1	UG/KG	07/09/2013	LAP
Bis(2-Chloroethoxy)Methane	EPA-8270	U	100	1	UG/KG	07/09/2013	LAP
2,4-Dichlorophenol	EPA-8270	U	100	1	UG/KG	07/09/2013	LAP
1,2,4-Trichlorobenzene	EPA-8270	U	100	1	UG/KG	07/09/2013	LAP
4-Chloroaniline	EPA-8270	U	100	1	UG/KG	07/09/2013	LAP
2,6-Dichlorophenol	EPA-8270	U	100	1	UG/KG	07/09/2013	LAP
Hexachlorobutadiene	EPA-8270	U	100	1	UG/KG	07/09/2013	LAP
4-Chloro-3-Methylphenol	EPA-8270	U	100	1	UG/KG	07/09/2013	LAP
Hexachlorocyclopentadiene	EPA-8270	U	500	1	UG/KG	07/09/2013	LAP
2,4,6-Trichlorophenol	EPA-8270	U	100	1	UG/KG	07/09/2013	LAP
2,4,5-Trichlorophenol	EPA-8270	U	100	1	UG/KG	07/09/2013	LAP
2-Chloronaphthalene	EPA-8270	U	100	1	UG/KG	07/09/2013	LAP



**CERTIFICATE OF ANALYSIS**

CLIENT: Landau Associates, Inc. DATE: 7/15/2013  
 130 - 2nd Ave. S. ALS SDG#: EV13060128  
 Edmonds, WA 98020 WDOE ACCREDITATION: C601

CLIENT CONTACT: Jeffrey Fellows  
 CLIENT PROJECT: Yakima Mill Site / #1148007.010

**LABORATORY BLANK RESULTS**

**MB-070313S - Batch 3898 - Soil by EPA-8270**

2-Nitroaniline	EPA-8270	U	250	1	UG/KG	07/09/2013	LAP
Dimethylphthalate	EPA-8270	U	100	1	UG/KG	07/09/2013	LAP
2,6-Dinitrotoluene	EPA-8270	U	250	1	UG/KG	07/09/2013	LAP
Acenaphthene	EPA-8270	U	100	1	UG/KG	07/09/2013	LAP
3-Nitroaniline	EPA-8270	U	250	1	UG/KG	07/09/2013	LAP
2,4-Dinitrophenol	EPA-8270	U	250	1	UG/KG	07/09/2013	LAP
4-Nitrophenol	EPA-8270	U	500	1	UG/KG	07/09/2013	LAP
Dibenzofuran	EPA-8270	U	100	1	UG/KG	07/09/2013	LAP
2,4-Dinitrotoluene	EPA-8270	U	250	1	UG/KG	07/09/2013	LAP
2,3,4,6-Tetrachlorophenol	EPA-8270	U	250	1	UG/KG	07/09/2013	LAP
Diethylphthalate	EPA-8270	U	100	1	UG/KG	07/09/2013	LAP
4-Chlorophenyl-Phenylether	EPA-8270	U	100	1	UG/KG	07/09/2013	LAP
4-Nitroaniline	EPA-8270	U	250	1	UG/KG	07/09/2013	LAP
4,6-Dinitro-2-Methylphenol	EPA-8270	U	100	1	UG/KG	07/09/2013	LAP
N-Nitrosodiphenylamine	EPA-8270	U	100	1	UG/KG	07/09/2013	LAP
Azobenzene	EPA-8270	U	100	1	UG/KG	07/09/2013	LAP
4-Bromophenyl-Phenylether	EPA-8270	U	100	1	UG/KG	07/09/2013	LAP
Hexachlorobenzene	EPA-8270	U	100	1	UG/KG	07/09/2013	LAP
Pentachlorophenol	EPA-8270	U	500	1	UG/KG	07/09/2013	LAP
Carbazole	EPA-8270	U	100	1	UG/KG	07/09/2013	LAP
Di-N-Butylphthalate	EPA-8270	U	130	1	UG/KG	07/09/2013	LAP
Pyrene	EPA-8270	U	100	1	UG/KG	07/09/2013	LAP
Butylbenzylphthalate	EPA-8270	U	100	1	UG/KG	07/09/2013	LAP
3,3-Dichlorobenzidine	EPA-8270	U	250	1	UG/KG	07/09/2013	LAP
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	130	1	UG/KG	07/09/2013	LAP
Di-N-Octylphthalate	EPA-8270	U	100	1	UG/KG	07/09/2013	LAP

**MB-062113W - Batch 3862 - Water by EPA-8270**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Pyridine	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
N-Nitrosodimethylamine	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Phenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Aniline	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Bis(2-Chloroethyl)Ether	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2-Chlorophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
1,3-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
1,4-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Benzyl Alcohol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
1,2-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP



CERTIFICATE OF ANALYSIS

CLIENT: Landau Associates, Inc. DATE: 7/15/2013  
130 - 2nd Ave. S. ALS SDG#: EV13060128  
Edmonds, WA 98020 WDOE ACCREDITATION: C601  
CLIENT CONTACT: Jeffrey Fellows  
CLIENT PROJECT: Yakima Mill Site / #1148007.010

LABORATORY BLANK RESULTS

MB-062113W - Batch 3862 - Water by EPA-8270

2-Methylphenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Bis(2-Chloroisopropyl)Ether	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
3&4-Methylphenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
N-Nitroso-Di-N-Propylamine	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Hexachloroethane	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Nitrobenzene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Isophorone	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2-Nitrophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,4-Dimethylphenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Benzoic Acid	EPA-8270	U	10	1	UG/L	06/24/2013	LAP
Bis(2-Chloroethoxy)Methane	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,4-Dichlorophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
1,2,4-Trichlorobenzene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Naphthalene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
4-Chloroaniline	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,6-Dichlorophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Hexachlorobutadiene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
4-Chloro-3-Methylphenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2-Methylnaphthalene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
1-Methylnaphthalene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Hexachlorocyclopentadiene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,4,6-Trichlorophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,4,5-Trichlorophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2-Chloronaphthalene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2-Nitroaniline	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Acenaphthylene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Dimethylphthalate	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,6-Dinitrotoluene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Acenaphthene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
3-Nitroaniline	EPA-8270	U	5.0	1	UG/L	06/24/2013	LAP
2,4-Dinitrophenol	EPA-8270	U	10	1	UG/L	06/24/2013	LAP
4-Nitrophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Dibenzofuran	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,4-Dinitrotoluene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
2,3,4,6-Tetrachlorophenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Diethylphthalate	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Fluorene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
4-Chlorophenyl-Phenylether	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
4-Nitroaniline	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
4,6-Dinitro-2-Methylphenol	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP





**CERTIFICATE OF ANALYSIS**

CLIENT: Landau Associates, Inc. DATE: 7/15/2013  
 130 - 2nd Ave. S. ALS SDG#: EV13060128  
 Edmonds, WA 98020 WDOE ACCREDITATION: C601

CLIENT CONTACT: Jeffrey Fellows  
 CLIENT PROJECT: Yakima Mill Site / #1148007.010

**LABORATORY BLANK RESULTS**

**MB-062113W - Batch 3862 - Water by EPA-8270**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
N-Nitrosodiphenylamine	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Azobenzene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
4-Bromophenyl-Phenylether	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Hexachlorobenzene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Pentachlorophenol	EPA-8270	U	5.0	1	UG/L	06/24/2013	LAP
Phenanthrene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Anthracene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Carbazole	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Di-N-Butylphthalate	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Fluoranthene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Pyrene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Butylbenzylphthalate	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
3,3-Dichlorobenzidine	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Benzo[A]Anthracene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Chrysene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Di-N-Octylphthalate	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Benzo[B]Fluoranthene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Benzo[K]Fluoranthene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Benzo[A]Pyrene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Dibenz[A,H]Anthracene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP
Benzo[G,H,I]Perylene	EPA-8270	U	2.0	1	UG/L	06/24/2013	LAP

**MBLK-6272013 - Batch R81890 - Soil by EPA-8082**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
PCB-1016	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
PCB-1268	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
PCB-1221	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
PCB-1232	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
PCB-1242	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
PCB-1248	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
PCB-1254	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP
PCB-1260	EPA-8082	U	0.10	1	MG/KG	06/27/2013	LAP

**MBLK-6282013 - Batch R81879 - Soil by EPA-7196**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Chromium (VI)	EPA-7196	U	5.0	1	MG/KG	06/28/2013	RAL



**CERTIFICATE OF ANALYSIS**

CLIENT: Landau Associates, Inc. DATE: 7/15/2013  
 130 - 2nd Ave. S. ALS SDG#: EV13060128  
 Edmonds, WA 98020 WDOE ACCREDITATION: C601  
 CLIENT CONTACT: Jeffrey Fellows  
 CLIENT PROJECT: Yakima Mill Site / #1148007.010

**LABORATORY BLANK RESULTS**

**MBLK-6282013 - Batch R81879 - Soil by EPA-7196**

**MBLK-712013 - Batch R81964 - Soil by EPA-7471**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Mercury	EPA-7471	U	0.020	1	MG/KG	07/01/2013	RAL

**MBLK-712013 - Batch R81965 - Soil by EPA-7471**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Mercury	EPA-7471	U	0.020	1	MG/KG	07/01/2013	RAL

**MBLK-752013 - Batch R81967 - Soil by EPA-7471**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Mercury	EPA-7471	U	0.020	1	MG/KG	07/05/2013	RAL

**MBLK-732013 - Batch R81963 - Water by EPA-7470**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Mercury (Dissolved)	EPA-7470	U	0.20	1	UG/L	07/03/2013	RAL

**MB-062813S - Batch 3869 - Soil by EPA-6020**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Arsenic	EPA-6020	U	0.20	1	MG/KG	07/01/2013	RAL
Cadmium	EPA-6020	U	0.10	1	MG/KG	07/01/2013	RAL
Chromium	EPA-6020	U	0.10	1	MG/KG	07/01/2013	RAL
Iron	EPA-6020	U	10	1	MG/KG	07/01/2013	RAL
Lead	EPA-6020	U	0.10	1	MG/KG	07/01/2013	RAL
Manganese	EPA-6020	U	0.10	1	MG/KG	07/01/2013	RAL

**MB-070113S - Batch 3870 - Soil by EPA-6020**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Arsenic	EPA-6020	U	0.20	1	MG/KG	07/02/2013	RAL
Cadmium	EPA-6020	U	0.10	1	MG/KG	07/02/2013	RAL
Chromium	EPA-6020	U	0.10	1	MG/KG	07/02/2013	RAL
Iron	EPA-6020	U	10	1	MG/KG	07/02/2013	RAL
Lead	EPA-6020	U	0.10	1	MG/KG	07/02/2013	RAL
Manganese	EPA-6020	U	0.10	1	MG/KG	07/02/2013	RAL



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS SDG#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	WDOE ACCREDITATION:	C601

**LABORATORY BLANK RESULTS**

**MB-070113S - Batch 3870 - Soil by EPA-6020**

**MB-070513S - Batch 3883 - Soil by EPA-6020**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Arsenic	EPA-6020	U	0.20	1	MG/KG	07/08/2013	RAL
Cadmium	EPA-6020	U	0.10	1	MG/KG	07/08/2013	RAL
Chromium	EPA-6020	U	0.10	1	MG/KG	07/08/2013	RAL
Iron	EPA-6020	U	10	1	MG/KG	07/08/2013	RAL
Lead	EPA-6020	U	0.10	1	MG/KG	07/08/2013	RAL
Manganese	EPA-6020	U	0.10	1	MG/KG	07/08/2013	RAL

**MB-062613W - Batch 3867 - Water by EPA-200.8**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Arsenic (Dissolved)	EPA-200.8	U	1.0	1	UG/L	06/27/2013	RAL
Cadmium (Dissolved)	EPA-200.8	U	1.0	1	UG/L	06/27/2013	RAL
Chromium (Dissolved)	EPA-200.8	U	2.0	1	UG/L	06/27/2013	RAL
Iron (Dissolved)	EPA-200.8	U	50	1	UG/L	06/27/2013	RAL
Lead (Dissolved)	EPA-200.8	U	1.0	1	UG/L	06/27/2013	RAL
Manganese (Dissolved)	EPA-200.8	U	2.0	1	UG/L	06/27/2013	RAL
Sodium (Dissolved)	EPA-200.8	U	50	1	UG/L	06/27/2013	RAL

**MBLK-712013 - Batch R81970 - Soil by EPA-9060**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Total Organic Carbon (TOC)	EPA-9060	U	0.10	1	%	07/01/2013	CAS



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
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CLIENT PROJECT:	Yakima Mill Site / #1148007.010	WDOE ACCREDITATION:	C601

**LABORATORY CONTROL SAMPLE RESULTS**

**ALS Test Batch ID: 3830 - Soil by NWTPH-GX**

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range - BS	NWTPH-GX	81.5			06/17/2013	DLC
TPH-Volatile Range - BSD	NWTPH-GX	85.7	5		06/17/2013	DLC

**ALS Test Batch ID: 3849 - Soil by NWTPH-GX**

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range - BS	NWTPH-GX	80.2			06/24/2013	GAP
TPH-Volatile Range - BSD	NWTPH-GX	77.0	4		06/24/2013	GAP

**ALS Test Batch ID: 3841 - Water by NWTPH-GX**

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range - BS	NWTPH-GX	70.4			06/24/2013	DLC
TPH-Volatile Range - BSD	NWTPH-GX	74.4	6		06/24/2013	DLC

**ALS Test Batch ID: 3837 - Soil by NWTPH-DX**

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range - BS	NWTPH-DX	101			06/21/2013	LAP
TPH-Diesel Range - BSD	NWTPH-DX	93.8	7		06/21/2013	LAP

**ALS Test Batch ID: 3860 - Soil by NWTPH-DX**

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range - BS	NWTPH-DX	98.6			06/26/2013	LAP
TPH-Diesel Range - BSD	NWTPH-DX	99.7	1		06/26/2013	LAP

**ALS Test Batch ID: 3861 - Soil by NWTPH-DX**

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range - BS	NWTPH-DX	101			06/27/2013	LAP
TPH-Diesel Range - BSD	NWTPH-DX	85.0	17		06/27/2013	LAP

**ALS Test Batch ID: 3858 - Water by NWTPH-DX**

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range - BS	NWTPH-DX	90.0			06/25/2013	LAP
TPH-Diesel Range - BSD	NWTPH-DX	86.7	4		06/25/2013	LAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS SDG#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	WDOE ACCREDITATION:	C601

**LABORATORY CONTROL SAMPLE RESULTS**

**ALS Test Batch ID: 3856 - Water by EPA-8260 SIM**

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
1,1-Dichloroethene - BS	EPA-8260 SIM	124			07/02/2013	GAP
1,1-Dichloroethene - BSD	EPA-8260 SIM	122	2		07/02/2013	GAP
Trichloroethene - BS	EPA-8260 SIM	127			07/02/2013	GAP
Trichloroethene - BSD	EPA-8260 SIM	125	1		07/02/2013	GAP

**ALS Test Batch ID: 3857 - Soil by EPA-8260**

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
1,1-Dichloroethene - BS	EPA-8260	97.9			06/28/2013	GAP
1,1-Dichloroethene - BSD	EPA-8260	84.2	15		06/28/2013	GAP
Benzene - BS	EPA-8260	92.8			06/28/2013	GAP
Benzene - BSD	EPA-8260	92.3	1		06/28/2013	GAP
Trichloroethene - BS	EPA-8260	96.9			06/28/2013	GAP
Trichloroethene - BSD	EPA-8260	94.4	3		06/28/2013	GAP
Toluene - BS	EPA-8260	98.1			06/28/2013	GAP
Toluene - BSD	EPA-8260	95.5	3		06/28/2013	GAP
Chlorobenzene - BS	EPA-8260	97.7			06/28/2013	GAP
Chlorobenzene - BSD	EPA-8260	94.7	3		06/28/2013	GAP

**ALS Test Batch ID: 3865 - Soil by EPA-8260**

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
1,1-Dichloroethene - BS	EPA-8260	98.5			07/01/2013	GAP
1,1-Dichloroethene - BSD	EPA-8260	107	9		07/01/2013	GAP
Benzene - BS	EPA-8260	107			07/01/2013	GAP
Benzene - BSD	EPA-8260	111	3		07/01/2013	GAP
Trichloroethene - BS	EPA-8260	104			07/01/2013	GAP
Trichloroethene - BSD	EPA-8260	108	4		07/01/2013	GAP
Toluene - BS	EPA-8260	101			07/01/2013	GAP
Toluene - BSD	EPA-8260	104	3		07/01/2013	GAP
Chlorobenzene - BS	EPA-8260	95.4			07/01/2013	GAP
Chlorobenzene - BSD	EPA-8260	99.1	4		07/01/2013	GAP

**ALS Test Batch ID: 3855 - Water by EPA-8260**

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
1,1-Dichloroethene - BS	EPA-8260	124			07/02/2013	GAP
1,1-Dichloroethene - BSD	EPA-8260	122	2		07/02/2013	GAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS SDG#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	WDOE ACCREDITATION:	C601

**LABORATORY CONTROL SAMPLE RESULTS**

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Benzene - BS	EPA-8260	128			07/02/2013	GAP
Benzene - BSD	EPA-8260	126	2		07/02/2013	GAP
Trichloroethene - BS	EPA-8260	127			07/02/2013	GAP
Trichloroethene - BSD	EPA-8260	125	1		07/02/2013	GAP
Toluene - BS	EPA-8260	118			07/02/2013	GAP
Toluene - BSD	EPA-8260	116	1		07/02/2013	GAP
Chlorobenzene - BS	EPA-8260	103			07/02/2013	GAP
Chlorobenzene - BSD	EPA-8260	102	1		07/02/2013	GAP

**ALS Test Batch ID: 3901 - Soil by EPA-8270 SIM**

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Acenaphthene - BS	EPA-8270 SIM	83.3			07/05/2013	LAP
Acenaphthene - BSD	EPA-8270 SIM	84.8	2		07/05/2013	LAP
Pyrene - BS	EPA-8270 SIM	93.7			07/05/2013	LAP
Pyrene - BSD	EPA-8270 SIM	95.1	2		07/05/2013	LAP

**ALS Test Batch ID: 3902 - Soil by EPA-8270 SIM**

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Acenaphthene - BS	EPA-8270 SIM	82.9			07/05/2013	LAP
Acenaphthene - BSD	EPA-8270 SIM	83.4	1		07/05/2013	LAP
Pyrene - BS	EPA-8270 SIM	91.5			07/05/2013	LAP
Pyrene - BSD	EPA-8270 SIM	93.5	2		07/05/2013	LAP

**ALS Test Batch ID: 3897 - Soil by EPA-8270**

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Phenol - BS	EPA-8270	92.6			07/05/2013	LAP
Phenol - BSD	EPA-8270	94.8	2		07/05/2013	LAP
2-Chlorophenol - BS	EPA-8270	90.0			07/05/2013	LAP
2-Chlorophenol - BSD	EPA-8270	91.4	2		07/05/2013	LAP
1,4-Dichlorobenzene - BS	EPA-8270	80.1			07/05/2013	LAP
1,4-Dichlorobenzene - BSD	EPA-8270	80.8	1		07/05/2013	LAP
N-Nitroso-Di-N-Propylamine - BS	EPA-8270	76.3			07/05/2013	LAP
N-Nitroso-Di-N-Propylamine - BSD	EPA-8270	77.4	1		07/05/2013	LAP
1,2,4-Trichlorobenzene - BS	EPA-8270	80.8			07/05/2013	LAP
1,2,4-Trichlorobenzene - BSD	EPA-8270	82.4	2		07/05/2013	LAP
4-Chloro-3-Methylphenol - BS	EPA-8270	65.8			07/05/2013	LAP



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b> 7/15/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS SDG#:</b> EV13060128
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>WDOE ACCREDITATION:</b> C601

**LABORATORY CONTROL SAMPLE RESULTS**

<b>SPIKED COMPOUND</b>	<b>METHOD</b>	<b>%REC</b>	<b>RPD</b>	<b>QUAL</b>	<b>ANALYSIS DATE</b>	<b>ANALYSIS BY</b>
4-Chloro-3-Methylphenol - BSD	EPA-8270	66.9	2		07/05/2013	LAP
Acenaphthene - BS	EPA-8270	83.3			07/05/2013	LAP
Acenaphthene - BSD	EPA-8270	84.8	2		07/05/2013	LAP
4-Nitrophenol - BS	EPA-8270	103			07/05/2013	LAP
4-Nitrophenol - BSD	EPA-8270	98.5	5		07/05/2013	LAP
2,4-Dinitrotoluene - BS	EPA-8270	95.8			07/05/2013	LAP
2,4-Dinitrotoluene - BSD	EPA-8270	96.5	1		07/05/2013	LAP
Pentachlorophenol - BS	EPA-8270	89.4			07/05/2013	LAP
Pentachlorophenol - BSD	EPA-8270	86.3	3		07/05/2013	LAP
Pyrene - BS	EPA-8270	93.7			07/05/2013	LAP
Pyrene - BSD	EPA-8270	95.1	2		07/05/2013	LAP

<b>SURROGATE</b>	<b>METHOD</b>	<b>%REC</b>	<b>RPD</b>	<b>QUAL</b>	<b>ANALYSIS DATE</b>	<b>ANALYSIS BY</b>
2-Fluorophenol - BS	EPA-8270	120		GS6	07/05/2013	LAP
2-Fluorophenol - BSD	EPA-8270	123		GS6	07/05/2013	LAP

GS6 - Surrogate outside of control limits. Single surrogate outlier per fraction is acceptable as per Method 8270D.

**ALS Test Batch ID: 3898 - Soil by EPA-8270**

<b>SPIKED COMPOUND</b>	<b>METHOD</b>	<b>%REC</b>	<b>RPD</b>	<b>QUAL</b>	<b>ANALYSIS DATE</b>	<b>ANALYSIS BY</b>
Phenol - BS	EPA-8270	91.9			07/05/2013	LAP
Phenol - BSD	EPA-8270	93.9	2		07/05/2013	LAP
2-Chlorophenol - BS	EPA-8270	88.3			07/05/2013	LAP
2-Chlorophenol - BSD	EPA-8270	91.6	4		07/05/2013	LAP
1,4-Dichlorobenzene - BS	EPA-8270	78.2			07/05/2013	LAP
1,4-Dichlorobenzene - BSD	EPA-8270	81.2	4		07/05/2013	LAP
N-Nitroso-Di-N-Propylamine - BS	EPA-8270	75.5			07/05/2013	LAP
N-Nitroso-Di-N-Propylamine - BSD	EPA-8270	76.9	2		07/05/2013	LAP
1,2,4-Trichlorobenzene - BS	EPA-8270	79.6			07/05/2013	LAP
1,2,4-Trichlorobenzene - BSD	EPA-8270	82.9	4		07/05/2013	LAP
4-Chloro-3-Methylphenol - BS	EPA-8270	62.8			07/05/2013	LAP
4-Chloro-3-Methylphenol - BSD	EPA-8270	66.0	5		07/05/2013	LAP
Acenaphthene - BS	EPA-8270	82.9			07/05/2013	LAP
Acenaphthene - BSD	EPA-8270	83.4	1		07/05/2013	LAP
4-Nitrophenol - BS	EPA-8270	103			07/05/2013	LAP
4-Nitrophenol - BSD	EPA-8270	106	2		07/05/2013	LAP
2,4-Dinitrotoluene - BS	EPA-8270	95.8			07/05/2013	LAP
2,4-Dinitrotoluene - BSD	EPA-8270	95.8	0		07/05/2013	LAP
Pentachlorophenol - BS	EPA-8270	86.0			07/05/2013	LAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS SDG#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	WDOE ACCREDITATION:	C601

**LABORATORY CONTROL SAMPLE RESULTS**

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Pentachlorophenol - BSD	EPA-8270	88.6	3		07/05/2013	LAP
Pyrene - BS	EPA-8270	91.5			07/05/2013	LAP
Pyrene - BSD	EPA-8270	93.5	2		07/05/2013	LAP

SURROGATE	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
2-Fluorophenol - BSD	EPA-8270	120		GS6	07/05/2013	LAP

GS6 - Surrogate outside of control limits. Single surrogate outlier per fraction is acceptable as per Method 8270D.

**ALS Test Batch ID: 3862 - Water by EPA-8270**

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Phenol - BS	EPA-8270	30.2			07/02/2013	LAP
Phenol - BSD	EPA-8270	31.6	4		07/02/2013	LAP
2-Chlorophenol - BS	EPA-8270	85.6			07/02/2013	LAP
2-Chlorophenol - BSD	EPA-8270	85.1	1		07/02/2013	LAP
1,4-Dichlorobenzene - BS	EPA-8270	82.2			07/02/2013	LAP
1,4-Dichlorobenzene - BSD	EPA-8270	77.8	6		07/02/2013	LAP
N-Nitroso-Di-N-Propylamine - BS	EPA-8270	75.2			07/02/2013	LAP
N-Nitroso-Di-N-Propylamine - BSD	EPA-8270	68.5	9		07/02/2013	LAP
1,2,4-Trichlorobenzene - BS	EPA-8270	80.7			07/02/2013	LAP
1,2,4-Trichlorobenzene - BSD	EPA-8270	75.6	7		07/02/2013	LAP
4-Chloro-3-Methylphenol - BS	EPA-8270	58.3		SQ3	07/02/2013	LAP
4-Chloro-3-Methylphenol - BSD	EPA-8270	60.0	3		07/02/2013	LAP
Acenaphthene - BS	EPA-8270	84.8			07/02/2013	LAP
Acenaphthene - BSD	EPA-8270	80.2	6		07/02/2013	LAP
4-Nitrophenol - BS	EPA-8270	16.4			07/02/2013	LAP
4-Nitrophenol - BSD	EPA-8270	12.6	26	SR1	07/02/2013	LAP
2,4-Dinitrotoluene - BS	EPA-8270	90.5			07/02/2013	LAP
2,4-Dinitrotoluene - BSD	EPA-8270	85.4	6		07/02/2013	LAP
Pentachlorophenol - BS	EPA-8270	89.7			07/02/2013	LAP
Pentachlorophenol - BSD	EPA-8270	84.4	6		07/02/2013	LAP
Pyrene - BS	EPA-8270	95.3			07/02/2013	LAP
Pyrene - BSD	EPA-8270	89.0	7		07/02/2013	LAP

SQ3 - Spike outside of control limits due to sporadic marginal failure. All other spikes in extraction fraction within control limits. No corrective action taken.  
SR1 - RPD outside of control limits.





**CERTIFICATE OF ANALYSIS**

CLIENT: Landau Associates, Inc. DATE: 7/15/2013  
 130 - 2nd Ave. S. ALS SDG#: EV13060128  
 Edmonds, WA 98020 WDOE ACCREDITATION: C601

CLIENT CONTACT: Jeffrey Fellows  
 CLIENT PROJECT: Yakima Mill Site / #1148007.010

**LABORATORY CONTROL SAMPLE RESULTS**

**ALS Test Batch ID: R81890 - Soil by EPA-8082**

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
PCB-1016 - BS	EPA-8082	88.0			06/27/2013	LAP
PCB-1016 - BSD	EPA-8082	90.0	2		06/27/2013	LAP
PCB-1260 - BS	EPA-8082	86.0			06/27/2013	LAP
PCB-1260 - BSD	EPA-8082	84.0	2		06/27/2013	LAP

**ALS Test Batch ID: R81879 - Soil by EPA-7196**

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Chromium (VI) - BS	EPA-7196	107			06/28/2013	RAL
Chromium (VI) - BSD	EPA-7196	107	0		06/28/2013	RAL

**ALS Test Batch ID: R81964 - Soil by EPA-7471**

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Mercury - BS	EPA-7471	101			07/01/2013	RAL
Mercury - BSD	EPA-7471	98.0	3		07/01/2013	RAL

**ALS Test Batch ID: R81965 - Soil by EPA-7471**

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Mercury - BS	EPA-7471	104			07/01/2013	RAL
Mercury - BSD	EPA-7471	101	3		07/01/2013	RAL

**ALS Test Batch ID: R81967 - Soil by EPA-7471**

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Mercury - BS	EPA-7471	105			07/05/2013	RAL
Mercury - BSD	EPA-7471	104	1		07/05/2013	RAL

**ALS Test Batch ID: R81963 - Water by EPA-7470**

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Mercury (Dissolved) - BS	EPA-7470	103			07/03/2013	RAL
Mercury (Dissolved) - BSD	EPA-7470	103	0		07/03/2013	RAL



**CERTIFICATE OF ANALYSIS**

CLIENT: Landau Associates, Inc. DATE: 7/15/2013  
 130 - 2nd Ave. S. ALS SDG#: EV13060128  
 Edmonds, WA 98020 WDOE ACCREDITATION: C601

CLIENT CONTACT: Jeffrey Fellows  
 CLIENT PROJECT: Yakima Mill Site / #1148007.010

**LABORATORY CONTROL SAMPLE RESULTS**

**ALS Test Batch ID: 3869 - Soil by EPA-6020**

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Arsenic - BS	EPA-6020	102			07/01/2013	RAL
Arsenic - BSD	EPA-6020	102	0		07/01/2013	RAL
Cadmium - BS	EPA-6020	106			07/01/2013	RAL
Cadmium - BSD	EPA-6020	106	0		07/01/2013	RAL
Chromium - BS	EPA-6020	106			07/01/2013	RAL
Chromium - BSD	EPA-6020	106	0		07/01/2013	RAL
Iron - BS	EPA-6020	106			07/01/2013	RAL
Iron - BSD	EPA-6020	106	0		07/01/2013	RAL
Lead - BS	EPA-6020	107			07/01/2013	RAL
Lead - BSD	EPA-6020	107	0		07/01/2013	RAL
Manganese - BS	EPA-6020	107			07/01/2013	RAL
Manganese - BSD	EPA-6020	107	0		07/01/2013	RAL

**ALS Test Batch ID: 3870 - Soil by EPA-6020**

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Arsenic - BS	EPA-6020	98.4			07/02/2013	RAL
Arsenic - BSD	EPA-6020	99.4	1		07/02/2013	RAL
Cadmium - BS	EPA-6020	103			07/02/2013	RAL
Cadmium - BSD	EPA-6020	105	2		07/02/2013	RAL
Chromium - BS	EPA-6020	103			07/02/2013	RAL
Chromium - BSD	EPA-6020	104	1		07/02/2013	RAL
Iron - BS	EPA-6020	103			07/02/2013	RAL
Iron - BSD	EPA-6020	104	1		07/02/2013	RAL
Lead - BS	EPA-6020	105			07/02/2013	RAL
Lead - BSD	EPA-6020	105	0		07/02/2013	RAL
Manganese - BS	EPA-6020	103			07/02/2013	RAL
Manganese - BSD	EPA-6020	104	1		07/02/2013	RAL

**ALS Test Batch ID: 3883 - Soil by EPA-6020**

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Arsenic - BS	EPA-6020	91.7			07/08/2013	RAL
Arsenic - BSD	EPA-6020	90.8	1		07/08/2013	RAL
Cadmium - BS	EPA-6020	93.4			07/08/2013	RAL
Cadmium - BSD	EPA-6020	90.5	3		07/08/2013	RAL
Chromium - BS	EPA-6020	95.8			07/08/2013	RAL
Chromium - BSD	EPA-6020	94.1	2		07/08/2013	RAL



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	7/15/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS SDG#:	EV13060128
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	WDOE ACCREDITATION:	C601

**LABORATORY CONTROL SAMPLE RESULTS**

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Iron - BS	EPA-6020	95.6			07/08/2013	RAL
Iron - BSD	EPA-6020	93.9	2		07/08/2013	RAL
Lead - BS	EPA-6020	93.9			07/08/2013	RAL
Lead - BSD	EPA-6020	91.1	3		07/08/2013	RAL
Manganese - BS	EPA-6020	95.4			07/08/2013	RAL
Manganese - BSD	EPA-6020	94.3	1		07/08/2013	RAL

**ALS Test Batch ID: 3867 - Water by EPA-200.8**

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Arsenic (Dissolved) - BS	EPA-200.8	94.8			06/27/2013	RAL
Arsenic (Dissolved) - BSD	EPA-200.8	94.4	0		06/27/2013	RAL
Cadmium (Dissolved) - BS	EPA-200.8	99.0			06/27/2013	RAL
Cadmium (Dissolved) - BSD	EPA-200.8	97.2	2		06/27/2013	RAL
Chromium (Dissolved) - BS	EPA-200.8	94.1			06/27/2013	RAL
Chromium (Dissolved) - BSD	EPA-200.8	94.0	0		06/27/2013	RAL
Iron (Dissolved) - BS	EPA-200.8	93.3			06/27/2013	RAL
Iron (Dissolved) - BSD	EPA-200.8	93.2	0		06/27/2013	RAL
Lead (Dissolved) - BS	EPA-200.8	96.2			06/27/2013	RAL
Lead (Dissolved) - BSD	EPA-200.8	95.3	1		06/27/2013	RAL
Manganese (Dissolved) - BS	EPA-200.8	93.6			06/27/2013	RAL
Manganese (Dissolved) - BSD	EPA-200.8	93.8	0		06/27/2013	RAL
Sodium (Dissolved) - BS	EPA-200.8	97.0			06/27/2013	RAL
Sodium (Dissolved) - BSD	EPA-200.8	96.6	0		06/27/2013	RAL

**ALS Test Batch ID: R81970 - Soil by EPA-9060**

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Total Organic Carbon (TOC) - BS	EPA-9060	86.0			07/01/2013	CAS

APPROVED BY

Laboratory Director

**ALS ENVIRONMENTAL**  
Sample Receiving Checklist

Client: Landau Associates ALS Job #: EV13060128

Project: Yakima Mill Site / #1148007.010

Received Date: 6/24/13 Received Time: 11:00 By: SMC

Type of shipping container: Cooler  Box  Other

Shipped via: UPS/FedEx  US Postal Service  Courier  Hand Delivered  *By Rick*

	Yes	No	N/A
Were custody seals on outside of sample?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
If yes, how many? <u>1</u> Where? <u>outside each cooler</u>			
Custody seal date: <u>6/24/13</u> Seal name: <u>Landau</u>			

Was Chain of Custody properly filled out (ink, signed, dated, etc.)?

Did all bottles have labels?

Did all bottle labels and tags agree with Chain of Custody?

Were samples received within hold time? \*

Did all bottles arrive in good condition (unbroken, etc.)?

Was sufficient amount of sample sent for the tests indicated?

Was correct preservation added to samples?    *NO 5035 for #17*

If no, Sample Control added preservative to the following:

<u>Sample Number</u>	<u>Reagent</u>	<u>Analyte</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____

Were VOA vials checked for absence of air bubbles?

Bubbles present in sample #: 3 VOAs had bubble in them  
1.0 2.9 1.1

Temperature of cooler upon receipt: 2.4 0.6 2.6  Cold  Cool  Ambient  N/A  
0.2 all on ice

Explain any discrepancies: No VOAs were received for (#17) FPP-B03-S (0.5-2). Received 2-4g jars only even though COC says 6. Sample #23 FPP-B07-S (0.5-1) says 6 containers on COC - only received 1 jar. Sample #24 FPP-B07-S (15-16) says 1 container on COC - received 6.

Was client contacted? yes Who was called? Jeff Feltner By whom? Rick Date: 6/24/13

Outcome of call: Vials were located and picked up under separate COC.

\* Dissolved metals filtered upon receipt at Lab.

**ALS ENVIRONMENTAL**  
Sample Receiving Checklist

Client: Landau Associates ALS Job #: EV13060128

Project: Yakima Mill Site / #1148007.010

Received Date: 6/25/13 Received Time: 1:20 By: SR

Type of shipping container: Cooler  Box  Other

Shipped via: UPS/FedEx  US Postal Service  Courier  Hand Delivered  *By Reelc*

	<u>Yes</u>	<u>No</u>	<u>N/A</u>
Were custody seals on outside of sample?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
If yes, how many? <u>1</u> Where? <u>outside cooler</u>			
Custody seal date: <u>6/25/13</u> Seal name: <u>Landau</u>			

Was Chain of Custody properly filled out (ink, signed, dated, etc.)?

Did all bottles have labels?

Did all bottle labels and tags agree with Chain of Custody?

Were samples received within hold time?

Did all bottles arrive in good condition (unbroken, etc.)?

Was sufficient amount of sample sent for the tests indicated?

Was correct preservation added to samples?

If no, Sample Control added preservative to the following:

<u>Sample Number</u>	<u>Reagent</u>	<u>Analyte</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____

Were VOA vials checked for absence of air bubbles?     
Bubbles present in sample #: \_\_\_\_\_

Temperature of cooler upon receipt: 5.9° on ice  Cold  Cool  Ambient  N/A

Explain any discrepancies: There were the voas that were missing from 6/24/13 samples.

Was client contacted? yes Who was called? Jeff Fellows By whom? Rick Date: 6/24/13

Outcome of call: Sample vials were located.

(pg 7)

EVI3060128

Seattle/Edmonds (425) 778-0907  
Tacoma (253) 926-2493  
Spokane (509) 327-9737  
Portland (503) 542-1080



# Chain-of-Custody Record

Project Name Yakima Mill Site Project No. 1148007.010

Project Location/Event Yakima, WA

Sampler's Name Steve Shaw, Matt Moroney

Project Contact Jeff Fellows

Send Results To Tim Swamy, Jeff Fellows, Anne Holman

Sample I.D.	Date	Time	Matrix	No. of Containers	Observations/Comments	Turnaround Time
FPP-B16-S(11.7-12.7)	6/17/13	1231	SOIL	2		<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Accelerated
FPP-B15-S(13.5-14.5)	6/17/13	1325	SOIL	2		
FPP-B14-S(14-15)	6/17/13	1430	SOIL	2		
FPP-B14-S(18.5-19.5)	6/17/13	1440	SOIL	2		
FPP-B17-S(12-14.5)	6/17/13	1546	SOIL	2		
FPP-B13-S(5.5-6.5)	6/17/13	1559	SOIL	1		
FPP-B12-S(6-7)	6/17/13	1720	SOIL	7		
FPP-B11-S(18-19)	6/18/13	0850	SOIL	7		
FPP-B10-S(10-11)	6/18/13	1035	SOIL	7		
FPP-B10-S(15-16)	6/18/13	1045	SOIL	1		
FPP-B06-S(15-16)	6/18/13	1110	SOIL	1		
FPP-B08-S(5-6.5)	6/18/13	1150	SOIL	7		
FPP-B04-S(11-12)	6/18/13	1320	SOIL	7		
FPP-B04-S(21-22)	6/18/13	1335	SOIL	3		
FPP-B01-S(0.5-1.5)	6/18/13	1441	SOIL	7		
FPP-B01-S(12-13)	6/18/13	1452	SOIL	3		
FPP-B03-S(0.5-2)	6/18/13	1740	SOIL	6		
FPP-B03-S(13-14)	6/18/13	1602	SOIL	1		

Special Shipment/Handling or Storage Requirements: can in + ice

Method of Shipment: courier pickup

Other: \*As, Cd, Cr, Pb, Hg, Fe, Mn

Observations/Comments: run samples standardized to product  
Analyze for EPH if no specific product identified  
VOC/BTEX/VPH (soil):  
non-preserved  
preserved w/methanol  
preserved w/sodium bisulfate  
Freeze upon receipt  
Dissolved metal water samples field filtered

Testing Parameters: NO TS  
SOS 6/17/13  
 NTPH-Dx  
 Allow water samples to settle, collect aliquot from clear portion  
 NTPH-Dx - run acid wash/silica gel cleanup  
 VOCs (8260c)  
 Metals \* (6020c)  
 Chromium 6+ (6020c)  
 SVCS/PAHs (8220c)  
 PCBs (8082)  
 TOC (9060)  
 Total Solids (9045)  
 HCIP (NTPH-Dx)  
 NTPH-Dx  
 Metals \* (8260c)  
 SVCS/PAHs (8220c)  
 PCBs (8082)  
 TOC (9060)  
 Total Solids (9045)  
 HCIP (NTPH-Dx)

Relinquished by: Shawn Robinson Signature  
Shawn Robinson Printed Name  
AS Company  
Date 6/24/13 Time 11:00

Received by: Shawn Robinson Signature  
Shawn Robinson Printed Name  
AS Company  
Date 6/24/13 Time 11:00

- Seattle/Edmonds (425) 778-0907
- Tacoma (253) 926-2493
- Spokane (509) 327-9737
- Portland (503) 542-1080



# Chain-of-Custody Record

Project Name Yakima Mill Site Project No. 1148007.010  
 Project Location/Event Yakima, WA  
 Sampler's Name Steve Shaw, Matt Mononey  
 Project Contact Jeff Fellows  
 Send Results To Tina Sykeson, Jeff Fellows, Anne Helwisch

Sample I.D.	Date	Time	Matrix	No. of Containers
19 FPP-B02-5(1-2)	6/19/13	0830	Soil	6
20 FPP-B02-5(14-15.5)	6/19/13	0840	Soil	8
21 FPP-B09-5(15-16.5)	6/19/13	0940	Soil	1
22 FPP-B09-5(12-13)	6/19/13	0950	Soil	6
23 FPP-B07-5(0.5-1)	6/19/13	1125	Soil	6
24 FPP-B07-5(15-16)	6/19/13	1145	Soil	7
25 FPP-B05-5(15-16.5)	6/19/13	1335	Soil	6
26 FPP-B05-5(22.5-24)	6/19/13	1400	Soil	5
27 FPP-B18-5(16.5-17.5)	6/19/13	1629	Soil	5
28 FPP-B19-5(11-12)	6/19/13	1730	Soil	1
29 FPP-B23-5(11.5-12.5)	6/20/13	0810	Soil	7
30 FPP-B22-5(12.5-13.5)	6/20/13	0850	Soil	1
31 FPP-B21-5(13-14)	6/20/13	0940	Soil	7
32 FPP-B24-5(15-16.5)	6/20/13	1040	Soil	6
33 FPP-B20-5(10-11)	6/20/13	1130	Soil	1
34 TP-B04-5(2-3)	6/20/13	1330	Soil	2
35 TP-B046-5(11.5-13)	6/20/13	1420	Soil	2
36 TP-B06-5(13.5-14)	6/20/13	1530	Soil	2

Special Shipment/Handling or Storage Requirements Case + ice

**Relinquished by**  
 Signature: [Signature]  
 Printed Name: STEVEN R SHAW  
 Company: LANDAU ASSOCIATES  
 Date: 6/27/13 Time: 0900

**Received by**  
 Signature: [Signature]  
 Printed Name: Shawn Robinson  
 Company: ALS  
 Date: 6/24/13 Time: 1100

Testing Parameters	Observations/Comments	Turnaround Time
NWPH-Hd	<input checked="" type="checkbox"/> Allow water samples to settle, collect aliquot from clear portion <input checked="" type="checkbox"/> NWTPH-Dx - run acid wash/silica gel cleanup <u>SOS 6/23/13</u> run samples standardized to _____ product Analyze for EPH if no specific product identified VOC/BTEX/VPH (soil): <input type="checkbox"/> non-preserved <input type="checkbox"/> preserved w/methanol <input type="checkbox"/> preserved w/sodium bisulfate <input type="checkbox"/> Freeze upon receipt <input type="checkbox"/> Dissolved metal water samples field filtered Other: <u>*As, Cd, Cr, Pb, Hg, Fe, Mn</u>	<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Accelerated
NWPH-Hd		
NWPH-Hd		
NWPH-Hd		
NWPH-Hd		
NWPH-Hd		
NWPH-Hd		
NWPH-Hd		
NWPH-Hd		
NWPH-Hd		
NWPH-Hd		
NWPH-Hd		
VOCs (8202)	Method of Shipment: <u>courier pickup</u>	
VOCs (8202)		
VOCs (8202)		
VOCs (8202)		
VOCs (8202)		
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EV13060128  
 Date 6/24/13  
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SOS - 6/27/13

- Seattle/Edmonds (425) 778-0907
- Tacoma (253) 926-2493
- Spokane (509) 327-9737
- Portland (503) 542-1080

**LA**  
LANDAU  
ASSOCIATES

# Chain-of-Custody Record

Project Name Yakima Mill Site Project No. 1148007.010  
 Project Location/Event Yakima, WA  
 Sampler's Name Steve Shaw, Matt Moroney  
 Project Contact Jeff Fellous  
 Send Results To Tim Syverson, Jeff Fellous, Anne Holman

Sample I.D.	Date	Time	Matrix	No. of Containers
TP-B03-S(15-16)	6/20/13	1640	So/L	5
TP-B02-S(13-14)	6/20/13	1730	So/L	5
TP-B01-S(6.5-7.5)	6/21/13	0750	So/L	6
TP-B07-S(14-15)	6/21/13	0930	So/L	5
TP-B09-S(13-14)	6/21/13	1030	So/L	7
TP-B09-S(6-7)	6/21/13	1040	So/L	5
TP-B08-S(16-17.5)	6/21/13	1205	So/L	6
TP-B08-S(7-8)	6/21/13	1230	So/L	3
FPP-B17-S(16-17)	6/21/13	1355	So/L	5
FPP-B17-S(0.5-1.5)	6/21/13	1405	So/L	1
TP-B01-S(1-2)	6/21/13	0800	So/L	1
FPP-B11-S(22-23)	6/18/13	0900	So/L	1

Sample I.D.	Testing Parameters					Observations/Comments
	NWPH-DX	NWPH-GX	VOCs (8102)	Metals* (6020)	Spec/PAHs (8020)	
TP-B03-S(15-16)	X	X	X	X	X	
TP-B02-S(13-14)	X	X	X	X	X	
TP-B01-S(6.5-7.5)	X	X	X	X	X	
TP-B07-S(14-15)	X	X	X	X	X	
TP-B09-S(13-14)	X	X	X	X	X	
TP-B09-S(6-7)	X	X	X	X	X	
TP-B08-S(16-17.5)	X	X	X	X	X	
TP-B08-S(7-8)	X	X	X	X	X	
FPP-B17-S(16-17)	X	X	X	X	X	
FPP-B17-S(0.5-1.5)	X	X	X	X	X	
TP-B01-S(1-2)	X	X	X	X	X	
FPP-B11-S(22-23)	X	X	X	X	X	

Turnaround Time  
 Standard  
 Accelerated

Observations/Comments  
 X Allow water samples to settle, collect aliquot from clear portion  
 X NWTPH-Dx - run acid wash/silica gel cleanup  
 run samples standardized to \_\_\_\_\_ product  
 Analyze for EPH if no specific product identified  
 VOC/BTEX/VPH (soil):  
 non-preserved \_\_\_\_\_  
 preserved w/methanol \_\_\_\_\_  
 preserved w/sodium bisulfate \_\_\_\_\_  
 Freeze upon receipt \_\_\_\_\_  
 Dissolved metal water samples field filtered

Special Shipment/Handling or Storage Requirements: cool + ice

Method of Shipment: courier pickup

Relinquished by	Received by
Signature: <u>[Signature]</u>	Signature: <u>[Signature]</u>
Printed Name: <u>STEVEN R. SMITH</u>	Printed Name: <u>Shawn Robinson</u>
Company: <u>LANDAU ASSOCIATES</u>	Company: <u>AG</u>
Date: <u>6/27/13</u> Time: <u>0900</u>	Date: <u>6/24/13</u> Time: <u>1100</u>

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EV13060128 (P 4)  
 Date 6/27/13  
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- Seattle/Edmonds (425) 778-0907
- Tacoma (253) 926-2493
- Spokane (509) 327-9737
- Portland (503) 542-1080



# Chain-of-Custody Record

Project Name YAKIMA MILL SITE Project No. 1148007.010  
 Project Location/Event YAKIMA, WA  
 Sampler's Name STEVE SHAW MATT MORONEY  
 Project Contact JEFF FELLOWS  
 Send Results To TIM SVERSON, JEFF FELLOWS, ANNE HALVORSEN

Sample I.D.	Date	Time	Matrix	No. of Containers
FPP-B19-GW(17)	6/19/13	1730	WATER	5
FPP-B24-GW(16)	6/20/13	1200	WATER	8
FPP-B20-GW(11)	6/20/13	1240	WATER	8
FPP-B08-GW(17)	6/18/13	1230	WATER	8
FPP-B01-GW(17)	6/18/13	1630	WATER	8
TP-B08-GW(18)	6/21/13	1220	WATER	8
FPP-B11-GW(18)	6/18/13	0925	WATER	2
FPP-B04-GW(15)	6/18/13	1415	WATER	8
TP-B06-GW(16)	6/20/13	1550	WATER	2
FPP-B17-GW(17)	6/21/13	1420	WATER	8
TP-B01-GW(19)	6/21/13	0825	WATER	8
FPP-B03-GW(17)	6/18/13	1740	WATER	2
TP-B09-GW(18)	6/24/13	1635	WATER	8
FPP-SW-01	6/20/13	0755	WATER	1
FPP-SW-02	6/20/13	0812	WATER	1
FPP-SW-03	6/20/13	0827	WATER	1
TRIP BLANKS			WATER	8

Testing Parameters	Turnaround Time	Observations/Comments
TOTAL METALS *** DISSOLVED METALS *** VDCS * NMTPH-GX NMTPH-DX CHROMIUM CR (TOTAL) CHROMIUM CR (DISSOLVED) PAHs (8270 D) PCBs (8270 D) TDS (360.1) TOC (3510 B) HClD (NW-HClD)	<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Accelerated <input type="checkbox"/>	<input checked="" type="checkbox"/> Allow water samples to settle, collect aliquot from clear portion <input checked="" type="checkbox"/> NMTPH-Dx - run acid wash/silica gel cleanup  <input type="checkbox"/> run samples standardized to _____ product <input type="checkbox"/> Analyze for EPH if no specific product identified VOC/BTEX/VPH (soil): <input type="checkbox"/> non-preserved <input type="checkbox"/> preserved w/methanol <input type="checkbox"/> preserved w/sodium bisulfate <input type="checkbox"/> Freeze upon receipt <input type="checkbox"/> Dissolved metal water samples field filtered Other * VOCs by 8260C (SIM FOR VINYL CHLORIDE + TCE) ** METALS - AS, CB, CR, Pb, Hg, Mn, Ni *** SAME LIST FOR DISSOLVED METALS DISSOLVED METALS + DISSOLVED CR GT ARE NOT FIELD-FILTERED

Special Shipment/Handling or Storage Requirements: cool + ice

Relinquished by	Received by
Signature: <u>[Signature]</u> Printed Name: <u>STEVE D SHAW</u> Company: <u>LANDAU ASSOCIATES</u>	Signature: <u>[Signature]</u> Printed Name: <u>Shawn Robinson</u> Company: <u>ALS</u>
Date: <u>6/27/13</u> Time: <u>0900</u>	Date: <u>6/24/13</u> Time: <u>11:00</u>

Method of Shipment: COIN PICKUP

Relinquished by: Signature, Printed Name, Company, Date, Time

Received by: Signature, Printed Name, Company, Date, Time

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- Seattle/Edmonds (425) 778-0907
- Tacoma (253) 926-2493
- Spokane (509) 327-9737
- Portland (503) 542-1080



# Chain-of-Custody Record

EV13060128

Date 6/25/13  
Page 1 of 1

Project Name Yakima Hill Site Project No. 1148007010

Project Location/Event Yakima, WA

Sampler's Name Steve Shaw, Matt Moroney

Project Contact Jeffrey Fellows

Send Results To Tin Spitzer, Jeffrey Fellows, Anne H. Lewis

Sample I.D.	Date	Time	Matrix	Containers	No. of Containers	Testing Parameters	Observations/Comments	Turnaround Time
<u>FPP-1303-S(0.5-2)</u>	<u>6/18/13</u>	<u>1740</u>	<u>soil</u>	<u>3</u>	<u>3</u>		<input checked="" type="checkbox"/> Allow water samples to settle, collect aliquot from clear portion <input checked="" type="checkbox"/> NWTPH-Dx - run acid wash/silica gel cleanup  <input type="checkbox"/> run samples standardized to _____ product <input type="checkbox"/> Analyze for EPH if no specific product identified VOC/BTEX/VPH (soil): <input type="checkbox"/> non-preserved <input checked="" type="checkbox"/> preserved w/methanol <input checked="" type="checkbox"/> preserved w/sodium bisulfate <input type="checkbox"/> Freeze upon receipt  <input type="checkbox"/> Dissolved metal water samples field filtered Other _____	<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Accelerated
<p>These are the voas that were missing from sample 17 rec'd. 6/24/13.</p> <p>Shaw</p>								
<p>or Storage Requirements <u>cool + ice</u></p>							Method of Shipment <u>courier pickup</u>	

Relinquished by	Received by
Signature <u>[Signature]</u> Printed Name <u>STEVEN D. SMITH</u> Company <u>LANDAU ASSOC</u> Date <u>6/25/13</u> Time <u>0900</u>	Signature <u>[Signature]</u> Printed Name <u>Shawn Robinson</u> Company <u>ALS</u> Date <u>6/25/13</u> Time <u>1:20</u>



September 10, 2013

Mr. Jeffrey Fellows  
Landau Associates, Inc.  
130 - 2nd Ave. S.  
Edmonds, WA 98020

Dear Mr. Fellows,

On August 26th, 74 samples were received by our laboratory and assigned our laboratory project number EV13080134. The project was identified as your Yakima Mill Site / #1148007.010. The sample identification and requested analyses are outlined on the attached chain of custody record.

No abnormalities or nonconformances were observed during the analyses of the project samples.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group

Rick Bagan  
Laboratory Director



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	9/10/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13080134
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-03
CLIENT SAMPLE ID	TP-MW-1-S (13.5-14.5)	DATE RECEIVED:	8/26/2013
		COLLECTION DATE:	8/19/2013 11:10:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	U	25	1	MG/KG	08/27/2013	EBS
TPH-Oil Range	NWTPH-DX w/ SGA	U	50	1	MG/KG	08/27/2013	EBS
Mercury	EPA-7471	<b>0.025</b>	0.020	1	MG/KG	09/04/2013	RAL
Arsenic	EPA-6020	<b>2.1</b>	1.0	5	MG/KG	08/28/2013	RAL
Cadmium	EPA-6020	U	0.50	5	MG/KG	08/28/2013	RAL
Chromium	EPA-6020	<b>12</b>	0.50	5	MG/KG	08/28/2013	RAL
Iron	EPA-6020	<b>22000</b>	50	5	MG/KG	08/28/2013	RAL
Lead	EPA-6020	<b>3.3</b>	0.50	5	MG/KG	08/28/2013	RAL
Manganese	EPA-6020	<b>300</b>	0.50	5	MG/KG	08/28/2013	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX w/ SGA	<b>92.5</b>	08/27/2013	EBS

U - Analyte analyzed for but not detected at level above reporting limit.



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	9/10/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13080134
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-06
CLIENT SAMPLE ID	TP-MW-2-S (14-15)	DATE RECEIVED:	8/26/2013
		COLLECTION DATE:	8/19/2013 2:50:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	48	25	1	MG/KG	08/28/2013	EBS
TPH-Oil Range	NWTPH-DX w/ SGA	U	50	1	MG/KG	08/28/2013	EBS
Mercury	EPA-7471	0.021	0.020	1	MG/KG	09/04/2013	RAL
Arsenic	EPA-6020	2.3	1.0	5	MG/KG	08/28/2013	RAL
Cadmium	EPA-6020	U	0.50	5	MG/KG	08/28/2013	RAL
Chromium	EPA-6020	16	0.50	5	MG/KG	08/28/2013	RAL
Iron	EPA-6020	21000	50	5	MG/KG	08/28/2013	RAL
Lead	EPA-6020	3.4	0.50	5	MG/KG	08/28/2013	RAL
Manganese	EPA-6020	240	0.50	5	MG/KG	08/28/2013	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX w/ SGA	93.5	08/28/2013	EBS

U - Analyte analyzed for but not detected at level above reporting limit.  
 Chromatogram indicates that it is likely that sample contains an unidentified diesel range product.



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	9/10/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13080134
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-08
CLIENT SAMPLE ID	FPP-MW-1-S (8.5-9)	DATE RECEIVED:	8/26/2013
		COLLECTION DATE:	8/20/2013 8:20:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	U	25	1	MG/KG	08/28/2013	EBS
TPH-Oil Range	NWTPH-DX w/ SGA	U	50	1	MG/KG	08/28/2013	EBS
Mercury	EPA-7471	0.024	0.020	1	MG/KG	09/04/2013	RAL
Arsenic	EPA-6020	2.3	1.0	5	MG/KG	08/28/2013	RAL
Cadmium	EPA-6020	U	0.50	5	MG/KG	08/28/2013	RAL
Chromium	EPA-6020	50	0.50	5	MG/KG	08/28/2013	RAL
Iron	EPA-6020	28000	50	5	MG/KG	08/28/2013	RAL
Lead	EPA-6020	6.2	0.50	5	MG/KG	08/28/2013	RAL
Manganese	EPA-6020	330	0.50	5	MG/KG	08/28/2013	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX w/ SGA	98.0	08/28/2013	EBS

U - Analyte analyzed for but not detected at level above reporting limit.



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	9/10/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13080134
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-12
CLIENT SAMPLE ID	FPP-MW-2-S (8.5-9.5)	DATE RECEIVED:	8/26/2013
		COLLECTION DATE:	8/20/2013 11:40:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	U	25	1	MG/KG	08/28/2013	EBS
TPH-Oil Range	NWTPH-DX w/ SGA	67	50	1	MG/KG	08/28/2013	EBS
Mercury	EPA-7471	0.025	0.020	1	MG/KG	09/04/2013	RAL
Arsenic	EPA-6020	2.1	1.0	5	MG/KG	08/28/2013	RAL
Cadmium	EPA-6020	U	0.50	5	MG/KG	08/28/2013	RAL
Chromium	EPA-6020	26	0.50	5	MG/KG	08/28/2013	RAL
Iron	EPA-6020	25000	50	5	MG/KG	08/28/2013	RAL
Lead	EPA-6020	4.1	0.50	5	MG/KG	08/28/2013	RAL
Manganese	EPA-6020	310	0.50	5	MG/KG	08/28/2013	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX w/ SGA	96.1	08/28/2013	EBS

U - Analyte analyzed for but not detected at level above reporting limit.  
Chromatogram indicates that it is likely that sample contains lube oil.



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	9/10/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13080134
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-15
CLIENT SAMPLE ID	FPP-MW-3-S (13.5-14.5)	DATE RECEIVED:	8/26/2013
		COLLECTION DATE:	8/20/2013 3:40:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	46	25	1	MG/KG	08/28/2013	EBS
TPH-Oil Range	NWTPH-DX w/ SGA	55	50	1	MG/KG	08/28/2013	EBS
Mercury	EPA-7471	0.028	0.020	1	MG/KG	09/04/2013	RAL
Arsenic	EPA-6020	2.9	1.0	5	MG/KG	08/28/2013	RAL
Cadmium	EPA-6020	U	0.50	5	MG/KG	08/28/2013	RAL
Chromium	EPA-6020	16	0.50	5	MG/KG	08/28/2013	RAL
Iron	EPA-6020	18000	50	5	MG/KG	08/28/2013	RAL
Lead	EPA-6020	6.6	0.50	5	MG/KG	08/28/2013	RAL
Manganese	EPA-6020	200	0.50	5	MG/KG	08/28/2013	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX w/ SGA	90.6	08/28/2013	EBS

U - Analyte analyzed for but not detected at level above reporting limit.  
 Chromatogram indicates that it is likely that sample contains weathered diesel and lube oil.





**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	9/10/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13080134
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-17
CLIENT SAMPLE ID	FPP-B27-S (5-6)	DATE RECEIVED:	8/26/2013
		COLLECTION DATE:	8/21/2013 7:55:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	U	50	2	MG/KG	08/28/2013	EBS
TPH-Oil Range	NWTPH-DX w/ SGA	<b>1300</b>	100	2	MG/KG	08/28/2013	EBS
Mercury	EPA-7471	<b>0.15</b>	0.020	1	MG/KG	09/04/2013	RAL
Arsenic	EPA-6020	U	1.0	5	MG/KG	08/28/2013	RAL
Cadmium	EPA-6020	U	0.50	5	MG/KG	08/28/2013	RAL
Chromium	EPA-6020	<b>19</b>	0.50	5	MG/KG	08/28/2013	RAL
Iron	EPA-6020	<b>20000</b>	50	5	MG/KG	08/28/2013	RAL
Lead	EPA-6020	<b>11</b>	0.50	5	MG/KG	08/28/2013	RAL
Manganese	EPA-6020	<b>300</b>	0.50	5	MG/KG	08/28/2013	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25 2X Dilution	NWTPH-DX w/ SGA	<b>99.9</b>	08/28/2013	EBS

U - Analyte analyzed for but not detected at level above reporting limit.  
 Chromatogram indicates that it is likely that sample contains an unidentified diesel range product and an unidentified oil range product.



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	9/10/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13080134
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-22
CLIENT SAMPLE ID	FPP-B26-S (15-16)	DATE RECEIVED:	8/26/2013
		COLLECTION DATE:	8/21/2013 9:45:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	44	25	1	MG/KG	08/28/2013	EBS
TPH-Oil Range	NWTPH-DX w/ SGA	140	50	1	MG/KG	08/28/2013	EBS
Mercury	EPA-7471	0.023	0.020	1	MG/KG	09/04/2013	RAL
Arsenic	EPA-6020	1.9	1.0	5	MG/KG	08/28/2013	RAL
Cadmium	EPA-6020	U	0.50	5	MG/KG	08/28/2013	RAL
Chromium	EPA-6020	25	0.50	5	MG/KG	08/28/2013	RAL
Iron	EPA-6020	21000	50	5	MG/KG	08/28/2013	RAL
Lead	EPA-6020	3.3	0.50	5	MG/KG	08/28/2013	RAL
Manganese	EPA-6020	250	0.50	5	MG/KG	08/28/2013	RAL
Total Organic Carbon (TOC)	ASTM D4129-05M	0.14	0.050	1	%	09/03/2013	CAS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX w/ SGA	101	08/28/2013	EBS

U - Analyte analyzed for but not detected at level above reporting limit.  
Chromatogram indicates that it is likely that sample contains light oil/lube oil.



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	9/10/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13080134
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-26
CLIENT SAMPLE ID	FPP-B25-S (15-16)	DATE RECEIVED:	8/26/2013
		COLLECTION DATE:	8/21/2013 1:30:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	U	25	1	MG/KG	08/28/2013	EBS
TPH-Oil Range	NWTPH-DX w/ SGA	U	50	1	MG/KG	08/28/2013	EBS
Mercury	EPA-7471	U	0.020	1	MG/KG	09/04/2013	RAL
Arsenic	EPA-6020	2.0	1.0	5	MG/KG	08/28/2013	RAL
Cadmium	EPA-6020	U	0.50	5	MG/KG	08/28/2013	RAL
Chromium	EPA-6020	110	0.50	5	MG/KG	08/28/2013	RAL
Iron	EPA-6020	40000	50	5	MG/KG	08/28/2013	RAL
Lead	EPA-6020	3.8	0.50	5	MG/KG	08/28/2013	RAL
Manganese	EPA-6020	320	0.50	5	MG/KG	08/28/2013	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX w/ SGA	95.9	08/28/2013	EBS

U - Analyte analyzed for but not detected at level above reporting limit.



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	9/10/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13080134
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-30
CLIENT SAMPLE ID	GPP-B30-S (14-15)	DATE RECEIVED:	8/26/2013
		COLLECTION DATE:	8/22/2013 9:30:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	130	25	1	MG/KG	08/28/2013	EBS
TPH-Oil Range	NWTPH-DX w/ SGA	240	50	1	MG/KG	08/28/2013	EBS
Mercury	EPA-7471	0.093	0.020	1	MG/KG	09/04/2013	RAL
Arsenic	EPA-6020	3.0	1.0	5	MG/KG	08/28/2013	RAL
Cadmium	EPA-6020	U	0.50	5	MG/KG	08/28/2013	RAL
Chromium	EPA-6020	16	0.50	5	MG/KG	08/28/2013	RAL
Iron	EPA-6020	29000	50	5	MG/KG	08/28/2013	RAL
Lead	EPA-6020	23	0.50	5	MG/KG	08/28/2013	RAL
Manganese	EPA-6020	460	0.50	5	MG/KG	08/28/2013	RAL
Total Organic Carbon (TOC)	ASTM D4129-05M	2.8	0.050	1	%	09/03/2013	CAS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX w/ SGA	98.5	08/28/2013	EBS

U - Analyte analyzed for but not detected at level above reporting limit.  
 Chromatogram indicates that it is likely that sample contains weathered diesel and lube oil.  
 Diesel range product results biased high due to oil range product overlap.



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	9/10/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13080134
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-33
CLIENT SAMPLE ID	FPP-B34-S (15-16)	DATE RECEIVED:	8/26/2013
		COLLECTION DATE:	8/22/2013 10:50:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	U	25	1	MG/KG	08/28/2013	EBS
TPH-Oil Range	NWTPH-DX w/ SGA	U	50	1	MG/KG	08/28/2013	EBS
Mercury	EPA-7471	0.022	0.020	1	MG/KG	09/04/2013	RAL
Arsenic	EPA-6020	2.1	1.0	5	MG/KG	08/28/2013	RAL
Cadmium	EPA-6020	U	0.50	5	MG/KG	08/28/2013	RAL
Chromium	EPA-6020	35	0.50	5	MG/KG	08/28/2013	RAL
Iron	EPA-6020	23000	50	5	MG/KG	08/28/2013	RAL
Lead	EPA-6020	5.0	0.50	5	MG/KG	08/28/2013	RAL
Manganese	EPA-6020	300	0.50	5	MG/KG	08/28/2013	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX w/ SGA	106	08/28/2013	EBS

U - Analyte analyzed for but not detected at level above reporting limit.



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	9/10/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13080134
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-35
CLIENT SAMPLE ID	FPP-B33-S (10-11)	DATE RECEIVED:	8/26/2013
		COLLECTION DATE:	8/22/2013 12:55:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	U	25	1	MG/KG	08/28/2013	EBS
TPH-Oil Range	NWTPH-DX w/ SGA	U	50	1	MG/KG	08/28/2013	EBS
Mercury	EPA-7471	0.022	0.020	1	MG/KG	09/04/2013	RAL
Arsenic	EPA-6020	1.9	1.0	5	MG/KG	08/28/2013	RAL
Cadmium	EPA-6020	U	0.50	5	MG/KG	08/28/2013	RAL
Chromium	EPA-6020	21	0.50	5	MG/KG	08/28/2013	RAL
Iron	EPA-6020	21000	50	5	MG/KG	08/28/2013	RAL
Lead	EPA-6020	2.5	0.50	5	MG/KG	08/28/2013	RAL
Manganese	EPA-6020	290	0.50	5	MG/KG	08/28/2013	RAL
Total Organic Carbon (TOC)	ASTM D4129-05M	0.091	0.050	1	%	09/03/2013	CAS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX w/ SGA	90.7	08/28/2013	EBS

U - Analyte analyzed for but not detected at level above reporting limit.



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	9/10/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13080134
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-39
CLIENT SAMPLE ID	FPP-B31-S (15-16)	DATE RECEIVED:	8/26/2013
		COLLECTION DATE:	8/22/2013 2:50:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	U	25	1	MG/KG	08/28/2013	EBS
TPH-Oil Range	NWTPH-DX w/ SGA	<b>820</b>	50	1	MG/KG	08/28/2013	EBS
Mercury	EPA-7471	<b>0.050</b>	0.020	1	MG/KG	09/04/2013	RAL
Arsenic	EPA-6020	<b>2.1</b>	1.0	5	MG/KG	08/28/2013	RAL
Cadmium	EPA-6020	U	0.50	5	MG/KG	08/28/2013	RAL
Chromium	EPA-6020	<b>17</b>	0.50	5	MG/KG	08/28/2013	RAL
Iron	EPA-6020	<b>21000</b>	50	5	MG/KG	08/28/2013	RAL
Lead	EPA-6020	<b>10</b>	0.50	5	MG/KG	08/28/2013	RAL
Manganese	EPA-6020	<b>300</b>	0.50	5	MG/KG	08/28/2013	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX w/ SGA	<b>0 DS1</b>	08/28/2013	EBS

DS1 - Surrogate outside of control limits due to matrix effect.  
 U - Analyte analyzed for but not detected at level above reporting limit.  
 Chromatogram indicates that it is likely that sample contains an unidentified diesel range product and an unidentified oil range product.



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	9/10/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13080134
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-44
CLIENT SAMPLE ID	FPP-B29a-S (15-16)	DATE RECEIVED:	8/26/2013
		COLLECTION DATE:	8/22/2013 5:00:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	U	120	5	MG/KG	08/28/2013	EBS
TPH-Oil Range	NWTPH-DX w/ SGA	<b>2000</b>	250	5	MG/KG	08/28/2013	EBS
PCB-1016	EPA-8082	U	0.10	1	MG/KG	09/05/2013	LAP
PCB-1221	EPA-8082	U	0.10	1	MG/KG	09/05/2013	LAP
PCB-1232	EPA-8082	U	0.10	1	MG/KG	09/05/2013	LAP
PCB-1242	EPA-8082	U	0.10	1	MG/KG	09/05/2013	LAP
PCB-1248	EPA-8082	U	0.10	1	MG/KG	09/05/2013	LAP
PCB-1254	EPA-8082	U	0.10	1	MG/KG	09/05/2013	LAP
PCB-1260	EPA-8082	U	0.10	1	MG/KG	09/05/2013	LAP
PCB-1268	EPA-8082	U	0.10	1	MG/KG	09/05/2013	LAP
Mercury	EPA-7471	<b>0.092</b>	0.020	1	MG/KG	09/04/2013	RAL
Arsenic	EPA-6020	<b>3.7</b>	1.0	5	MG/KG	08/28/2013	RAL
Cadmium	EPA-6020	U	0.50	5	MG/KG	08/28/2013	RAL
Chromium	EPA-6020	<b>20</b>	0.50	5	MG/KG	08/28/2013	RAL
Iron	EPA-6020	<b>31000</b>	50	5	MG/KG	08/28/2013	RAL
Lead	EPA-6020	<b>5.3</b>	0.50	5	MG/KG	08/28/2013	RAL
Manganese	EPA-6020	<b>570</b>	0.50	5	MG/KG	08/28/2013	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25 5X Dilution	NWTPH-DX w/ SGA	<b>106</b>	08/28/2013	EBS
TCMX	EPA-8082	<b>74.3</b>	09/05/2013	LAP
DCB	EPA-8082	<b>51.7</b>	09/05/2013	LAP

U - Analyte analyzed for but not detected at level above reporting limit.  
Chromatogram indicates that it is likely that sample contains lube oil.





**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	9/10/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13080134
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-48
CLIENT SAMPLE ID	FPP-B32-S (15-16)	DATE RECEIVED:	8/26/2013
		COLLECTION DATE:	8/22/2013 11:40:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	U	25	1	MG/KG	08/28/2013	EBS
TPH-Oil Range	NWTPH-DX w/ SGA	U	50	1	MG/KG	08/28/2013	EBS
Mercury	EPA-7471	0.15	0.020	1	MG/KG	09/04/2013	RAL
Arsenic	EPA-6020	2.6	1.0	5	MG/KG	08/28/2013	RAL
Cadmium	EPA-6020	U	0.50	5	MG/KG	08/28/2013	RAL
Chromium	EPA-6020	18	0.50	5	MG/KG	08/28/2013	RAL
Iron	EPA-6020	24000	50	5	MG/KG	08/28/2013	RAL
Lead	EPA-6020	5.4	0.50	5	MG/KG	08/28/2013	RAL
Manganese	EPA-6020	370	0.50	5	MG/KG	08/28/2013	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX w/ SGA	85.3	08/28/2013	EBS

U - Analyte analyzed for but not detected at level above reporting limit.



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	9/10/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13080134
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-52
CLIENT SAMPLE ID	FPP-B28-S (15-16)	DATE RECEIVED:	8/26/2013
		COLLECTION DATE:	8/23/2013 10:25:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	U	250	10	MG/KG	08/28/2013	EBS
TPH-Oil Range	NWTPH-DX w/ SGA	<b>6100</b>	500	10	MG/KG	08/28/2013	EBS
Mercury	EPA-7471	<b>0.021</b>	0.020	1	MG/KG	09/04/2013	RAL
Arsenic	EPA-6020	<b>2.0</b>	1.0	5	MG/KG	08/28/2013	RAL
Cadmium	EPA-6020	U	0.50	5	MG/KG	08/28/2013	RAL
Chromium	EPA-6020	<b>17</b>	0.50	5	MG/KG	08/28/2013	RAL
Iron	EPA-6020	<b>21000</b>	50	5	MG/KG	08/28/2013	RAL
Lead	EPA-6020	<b>4.2</b>	0.50	5	MG/KG	08/28/2013	RAL
Manganese	EPA-6020	<b>220</b>	0.50	5	MG/KG	08/28/2013	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25 10X Dilution	NWTPH-DX w/ SGA	<b>103 DS2</b>	08/28/2013	EBS

DS2 - Due to high dilution factor surrogate results should be considered uncontrolled.  
 U - Analyte analyzed for but not detected at level above reporting limit.  
 Chromatogram indicates that it is likely that sample contains lube oil.



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	9/10/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13080134
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-56
CLIENT SAMPLE ID	FPP-B29b-S (15-16)	DATE RECEIVED:	8/26/2013
		COLLECTION DATE:	8/23/2013 12:15:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	U	25	1	MG/KG	08/28/2013	EBS
TPH-Oil Range	NWTPH-DX w/ SGA	560	50	1	MG/KG	08/28/2013	EBS
Mercury	EPA-7471	0.082	0.020	1	MG/KG	09/04/2013	RAL
Arsenic	EPA-6020	4.0	1.0	5	MG/KG	08/28/2013	RAL
Cadmium	EPA-6020	U	0.50	5	MG/KG	08/28/2013	RAL
Chromium	EPA-6020	17	0.50	5	MG/KG	08/28/2013	RAL
Iron	EPA-6020	30000	50	5	MG/KG	08/28/2013	RAL
Lead	EPA-6020	5.5	0.50	5	MG/KG	08/28/2013	RAL
Manganese	EPA-6020	560	0.50	5	MG/KG	08/28/2013	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX w/ SGA	106	08/28/2013	EBS

U - Analyte analyzed for but not detected at level above reporting limit.  
Chromatogram indicates that it is likely that sample contains lube oil.



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	9/10/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13080134
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-60
CLIENT SAMPLE ID	FPP-B29c-S (15-16)	DATE RECEIVED:	8/26/2013
		COLLECTION DATE:	8/23/2013 1:50:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	U	120	5	MG/KG	08/28/2013	EBS
TPH-Oil Range	NWTPH-DX w/ SGA	3500	250	5	MG/KG	08/28/2013	EBS
Mercury	EPA-7471	0.12	0.020	1	MG/KG	09/04/2013	RAL
Arsenic	EPA-6020	3.0	1.0	5	MG/KG	08/28/2013	RAL
Cadmium	EPA-6020	U	0.50	5	MG/KG	08/28/2013	RAL
Chromium	EPA-6020	20	0.50	5	MG/KG	08/28/2013	RAL
Iron	EPA-6020	31000	50	5	MG/KG	08/28/2013	RAL
Lead	EPA-6020	5.7	0.50	5	MG/KG	08/28/2013	RAL
Manganese	EPA-6020	410	0.50	5	MG/KG	08/28/2013	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25 5X Dilution	NWTPH-DX w/ SGA	109	08/28/2013	EBS

U - Analyte analyzed for but not detected at level above reporting limit.  
Chromatogram indicates that it is likely that sample contains lube oil.



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	9/10/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13080134
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-62
CLIENT SAMPLE ID	FPP-B27-GW (16)	DATE RECEIVED:	8/26/2013
		COLLECTION DATE:	8/21/2013 9:30:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	U	1300	10	UG/L	08/27/2013	EBS
TPH-Oil Range	NWTPH-DX w/ SGA	<b>47000</b>	2500	10	UG/L	08/27/2013	EBS
Mercury (Dissolved)	EPA-7470	U	0.20	1	UG/L	08/27/2013	RAL
Arsenic (Dissolved)	EPA-200.8	<b>35</b>	5.0	5	UG/L	08/28/2013	RAL
Cadmium (Dissolved)	EPA-200.8	U	5.0	5	UG/L	08/28/2013	RAL
Chromium (Dissolved)	EPA-200.8	U	10	5	UG/L	08/28/2013	RAL
Iron (Dissolved)	EPA-200.8	<b>580</b>	250	5	UG/L	08/28/2013	RAL
Lead (Dissolved)	EPA-200.8	<b>9.2</b>	5.0	5	UG/L	08/28/2013	RAL
Manganese (Dissolved)	EPA-200.8	<b>90</b>	10	5	UG/L	08/28/2013	RAL
Sodium (Dissolved)	EPA-200.8	<b>1500000</b>	1000	20	UG/L	08/29/2013	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25 10X Dilution	NWTPH-DX w/ SGA	<b>107 DS2</b>	08/27/2013	EBS

DS2 - Due to high dilution factor surrogate results should be considered uncontrolled.  
 U - Analyte analyzed for but not detected at level above reporting limit.  
 Chromatogram indicates that it is likely that sample contains an unidentified diesel range product and an unidentified oil range product.



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	9/10/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13080134
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-63
CLIENT SAMPLE ID	FPP-B26-GW (19.5)	DATE RECEIVED:	8/26/2013
		COLLECTION DATE:	8/21/2013 11:45:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	150	130	1	UG/L	08/28/2013	EBS
TPH-Oil Range	NWTPH-DX w/ SGA	270	250	1	UG/L	08/28/2013	EBS
Mercury (Dissolved)	EPA-7470	U	0.20	1	UG/L	08/27/2013	RAL
Arsenic (Dissolved)	EPA-200.8	1.1	1.0	1	UG/L	08/29/2013	RAL
Cadmium (Dissolved)	EPA-200.8	U	1.0	1	UG/L	08/29/2013	RAL
Chromium (Dissolved)	EPA-200.8	U	2.0	1	UG/L	08/29/2013	RAL
Iron (Dissolved)	EPA-200.8	18000	50	1	UG/L	08/29/2013	RAL
Lead (Dissolved)	EPA-200.8	U	1.0	1	UG/L	08/29/2013	RAL
Manganese (Dissolved)	EPA-200.8	1600	2.0	1	UG/L	08/29/2013	RAL
Sodium (Dissolved)	EPA-200.8	23000	50	1	UG/L	08/29/2013	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX w/ SGA	102	08/28/2013	EBS

U - Analyte analyzed for but not detected at level above reporting limit.  
 Chromatogram indicates that it is likely that sample contains weathered diesel and an unidentified oil range product.



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	9/10/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13080134
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-64
CLIENT SAMPLE ID	FPP-B25-GW (18.5)	DATE RECEIVED:	8/26/2013
		COLLECTION DATE:	8/21/2013 2:15:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	U	130	1	UG/L	08/28/2013	EBS
TPH-Oil Range	NWTPH-DX w/ SGA	U	250	1	UG/L	08/28/2013	EBS
Mercury (Dissolved)	EPA-7470	U	0.20	1	UG/L	08/27/2013	RAL
Arsenic (Dissolved)	EPA-200.8	U	1.0	1	UG/L	08/29/2013	RAL
Cadmium (Dissolved)	EPA-200.8	U	1.0	1	UG/L	08/29/2013	RAL
Chromium (Dissolved)	EPA-200.8	U	2.0	1	UG/L	08/29/2013	RAL
Iron (Dissolved)	EPA-200.8	<b>9700</b>	50	1	UG/L	08/29/2013	RAL
Lead (Dissolved)	EPA-200.8	U	1.0	1	UG/L	08/29/2013	RAL
Manganese (Dissolved)	EPA-200.8	<b>1100</b>	2.0	1	UG/L	08/29/2013	RAL
Sodium (Dissolved)	EPA-200.8	<b>18000</b>	50	1	UG/L	08/29/2013	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX w/ SGA	<b>100</b>	08/28/2013	EBS

U - Analyte analyzed for but not detected at level above reporting limit.



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	9/10/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13080134
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-65
CLIENT SAMPLE ID	TP-MW-1	DATE RECEIVED:	8/26/2013
		COLLECTION DATE:	8/22/2013 12:59:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	50	1	UG/L	08/27/2013	DLC
TPH-Diesel Range	NWTPH-DX w/ SGA	U	130	1	UG/L	08/28/2013	EBS
TPH-Oil Range	NWTPH-DX w/ SGA	U	250	1	UG/L	08/28/2013	EBS
Dichlorodifluoromethane	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Chloromethane	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Bromomethane	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Chloroethane	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Carbon Disulfide	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Acetone	EPA-8260	U	25	1	UG/L	08/28/2013	GAP
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	08/28/2013	GAP
Acrylonitrile	EPA-8260	U	10	1	UG/L	08/28/2013	GAP
Methyl T-Butyl Ether	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
2-Butanone	EPA-8260	U	10	1	UG/L	08/28/2013	GAP
Cis-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Chloroform	EPA-8260	2.9	2.0	1	UG/L	08/28/2013	GAP
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Benzene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Dibromomethane	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
4-Methyl-2-Pentanone	EPA-8260	U	10	1	UG/L	08/28/2013	GAP
Toluene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
2-Hexanone	EPA-8260	U	10	1	UG/L	08/28/2013	GAP
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Tetrachloroethylene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP





**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	9/10/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13080134
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-65
<b>CLIENT SAMPLE ID</b>	TP-MW-1	<b>DATE RECEIVED:</b>	8/26/2013
		<b>COLLECTION DATE:</b>	8/22/2013 12:59:00 PM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

<b>ANALYTE</b>	<b>METHOD</b>	<b>RESULTS</b>	<b>REPORTING LIMITS</b>	<b>DILUTION FACTOR</b>	<b>UNITS</b>	<b>ANALYSIS DATE</b>	<b>ANALYSIS BY</b>
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	08/28/2013	GAP
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Ethylbenzene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
m,p-Xylene	EPA-8260	U	4.0	1	UG/L	08/28/2013	GAP
Styrene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
o-Xylene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Bromoform	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Isopropylbenzene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
1,1,2,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Bromobenzene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
N-Propyl Benzene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
1,3,5-Trimethylbenzene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
T-Butyl Benzene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
1,2,4-Trimethylbenzene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
S-Butyl Benzene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
P-Isopropyltoluene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
1,3 Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
N-Butylbenzene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	08/28/2013	GAP
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Naphthalene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Pyridine	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
N-Nitrosodimethylamine	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Phenol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Aniline	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Bis(2-Chloroethyl)Ether	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
2-Chlorophenol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
1,3-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
1,4-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Benzyl Alcohol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	9/10/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13080134
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-65
<b>CLIENT SAMPLE ID</b>	TP-MW-1	<b>DATE RECEIVED:</b>	8/26/2013
		<b>COLLECTION DATE:</b>	8/22/2013 12:59:00 PM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

<b>ANALYTE</b>	<b>METHOD</b>	<b>RESULTS</b>	<b>REPORTING LIMITS</b>	<b>DILUTION FACTOR</b>	<b>UNITS</b>	<b>ANALYSIS DATE</b>	<b>ANALYSIS BY</b>
1,2-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
2-Methylphenol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Bis(2-Chloroisopropyl)Ether	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
3&4-Methylphenol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
N-Nitroso-Di-N-Propylamine	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Hexachloroethane	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Nitrobenzene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Isophorone	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
2-Nitrophenol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
2,4-Dimethylphenol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Benzoic Acid	EPA-8270	U	10	1	UG/L	09/04/2013	LAP
Bis(2-Chloroethoxy)Methane	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
2,4-Dichlorophenol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
1,2,4-Trichlorobenzene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Naphthalene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
4-Chloroaniline	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
2,6-Dichlorophenol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Hexachlorobutadiene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
4-Chloro-3-Methylphenol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
2-Methylnaphthalene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
1-Methylnaphthalene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Hexachlorocyclopentadiene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
2,4,6-Trichlorophenol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
2,4,5-Trichlorophenol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
2-Chloronaphthalene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
2-Nitroaniline	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Acenaphthylene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Dimethylphthalate	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
2,6-Dinitrotoluene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Acenaphthene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
3-Nitroaniline	EPA-8270	U	5.0	1	UG/L	09/04/2013	LAP
2,4-Dinitrophenol	EPA-8270	U	10	1	UG/L	09/04/2013	LAP
4-Nitrophenol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Dibenzofuran	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
2,4-Dinitrotoluene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
2,3,4,6-Tetrachlorophenol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Diethylphthalate	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Fluorene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	9/10/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13080134
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-65
CLIENT SAMPLE ID	TP-MW-1	DATE RECEIVED:	8/26/2013
		COLLECTION DATE:	8/22/2013 12:59:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
4-Chlorophenyl-Phenylether	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
4-Nitroaniline	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
4,6-Dinitro-2-Methylphenol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
N-Nitrosodiphenylamine	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Azobenzene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
4-Bromophenyl-Phenylether	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Hexachlorobenzene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Pentachlorophenol	EPA-8270	U	5.0	1	UG/L	09/04/2013	LAP
Phenanthrene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Anthracene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Carbazole	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Di-N-Butylphthalate	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Fluoranthene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Pyrene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Butylbenzylphthalate	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
3,3-Dichlorobenzidine	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Benzo[A]Anthracene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Chrysene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Di-N-Octylphthalate	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Benzo[B]Fluoranthene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Benzo[K]Fluoranthene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Benzo[A]Pyrene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Dibenz[A,H]Anthracene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Benzo[G,H,I]Perylene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Mercury (Dissolved)	EPA-7470	U	0.20	1	UG/L	08/27/2013	RAL
Arsenic (Dissolved)	EPA-200.8	U	1.0	1	UG/L	08/29/2013	RAL
Cadmium (Dissolved)	EPA-200.8	U	1.0	1	UG/L	08/29/2013	RAL
Chromium (Dissolved)	EPA-200.8	U	2.0	1	UG/L	08/29/2013	RAL
Iron (Dissolved)	EPA-200.8	U	50	1	UG/L	08/29/2013	RAL
Lead (Dissolved)	EPA-200.8	U	1.0	1	UG/L	08/29/2013	RAL
Manganese (Dissolved)	EPA-200.8	140	2.0	1	UG/L	08/29/2013	RAL
Sodium (Dissolved)	EPA-200.8	21000	50	1	UG/L	08/29/2013	RAL
Total Organic Carbon (TOC)	SM5310C	1.3	0.50	1	MG/L	08/30/2013	CAS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
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**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	9/10/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13080134
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-65
<b>CLIENT SAMPLE ID</b>	TP-MW-1	<b>DATE RECEIVED:</b>	8/26/2013
		<b>COLLECTION DATE:</b>	8/22/2013 12:59:00 PM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

SURROGATE	METHOD	%REC	ANALYSIS	ANALYSIS
			DATE	BY
TFT	NWTPH-GX	97.6	08/27/2013	DLC
C25	NWTPH-DX w/ SGA	106	08/28/2013	EBS
1,2-Dichloroethane-d4	EPA-8260	101	08/28/2013	GAP
Toluene-d8	EPA-8260	100	08/28/2013	GAP
4-Bromofluorobenzene	EPA-8260	101	08/28/2013	GAP
2-Fluorophenol	EPA-8270	82.5	09/04/2013	LAP
Phenol-d5	EPA-8270	47.6	09/04/2013	LAP
Nitrobenzene-d5	EPA-8270	91.5	09/04/2013	LAP
2-Fluorobiphenyl	EPA-8270	94.5	09/04/2013	LAP
2,4,6-Tribromophenol	EPA-8270	83.1	09/04/2013	LAP
Terphenyl-d14	EPA-8270	105	09/04/2013	LAP

U - Analyte analyzed for but not detected at level above reporting limit.



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	9/10/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13080134
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-66
CLIENT SAMPLE ID	FPP-B31-GW (19)	DATE RECEIVED:	8/26/2013
		COLLECTION DATE:	8/22/2013 1:00:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	U	130	1	UG/L	08/27/2013	EBS
TPH-Oil Range	NWTPH-DX w/ SGA	U	250	1	UG/L	08/27/2013	EBS
Mercury (Dissolved)	EPA-7470	U	0.20	1	UG/L	08/27/2013	RAL
Arsenic (Dissolved)	EPA-200.8	1.9	1.0	1	UG/L	08/29/2013	RAL
Cadmium (Dissolved)	EPA-200.8	U	1.0	1	UG/L	08/29/2013	RAL
Chromium (Dissolved)	EPA-200.8	U	2.0	1	UG/L	08/29/2013	RAL
Iron (Dissolved)	EPA-200.8	14000	50	1	UG/L	08/29/2013	RAL
Lead (Dissolved)	EPA-200.8	U	1.0	1	UG/L	08/29/2013	RAL
Manganese (Dissolved)	EPA-200.8	1600	2.0	1	UG/L	08/29/2013	RAL
Sodium (Dissolved)	EPA-200.8	20000	50	1	UG/L	08/29/2013	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX w/ SGA	93.0	08/27/2013	EBS

U - Analyte analyzed for but not detected at level above reporting limit.



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	9/10/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13080134
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-67
CLIENT SAMPLE ID	FPP-B33-GW (19)	DATE RECEIVED:	8/26/2013
		COLLECTION DATE:	8/22/2013 3:30:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	U	130	1	UG/L	08/28/2013	EBS
TPH-Oil Range	NWTPH-DX w/ SGA	U	250	1	UG/L	08/28/2013	EBS
Mercury (Dissolved)	EPA-7470	U	0.20	1	UG/L	08/27/2013	RAL
Arsenic (Dissolved)	EPA-200.8	<b>7.8</b>	1.0	1	UG/L	08/29/2013	RAL
Cadmium (Dissolved)	EPA-200.8	U	1.0	1	UG/L	08/29/2013	RAL
Chromium (Dissolved)	EPA-200.8	U	2.0	1	UG/L	08/29/2013	RAL
Iron (Dissolved)	EPA-200.8	<b>24000</b>	50	1	UG/L	08/29/2013	RAL
Lead (Dissolved)	EPA-200.8	U	1.0	1	UG/L	08/29/2013	RAL
Manganese (Dissolved)	EPA-200.8	<b>2000</b>	2.0	1	UG/L	08/29/2013	RAL
Sodium (Dissolved)	EPA-200.8	<b>48000</b>	50	1	UG/L	08/29/2013	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX w/ SGA	<b>104</b>	08/28/2013	EBS

U - Analyte analyzed for but not detected at level above reporting limit.



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	9/10/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13080134
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-68
<b>CLIENT SAMPLE ID</b>	TP-MW-2	<b>DATE RECEIVED:</b>	8/26/2013
		<b>COLLECTION DATE:</b>	8/22/2013 5:00:00 PM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	50	1	UG/L	08/27/2013	DLC
TPH-Diesel Range	NWTPH-DX w/ SGA	U	130	1	UG/L	08/27/2013	EBS
TPH-Oil Range	NWTPH-DX w/ SGA	U	250	1	UG/L	08/27/2013	EBS
Dichlorodifluoromethane	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Chloromethane	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Bromomethane	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Chloroethane	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Carbon Disulfide	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Acetone	EPA-8260	U	25	1	UG/L	08/28/2013	GAP
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	08/28/2013	GAP
Acrylonitrile	EPA-8260	U	10	1	UG/L	08/28/2013	GAP
Methyl T-Butyl Ether	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
2-Butanone	EPA-8260	U	10	1	UG/L	08/28/2013	GAP
Cis-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Chloroform	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Benzene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Dibromomethane	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
4-Methyl-2-Pentanone	EPA-8260	U	10	1	UG/L	08/28/2013	GAP
Toluene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
2-Hexanone	EPA-8260	U	10	1	UG/L	08/28/2013	GAP
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Tetrachloroethylene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	9/10/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13080134
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-68
<b>CLIENT SAMPLE ID</b>	TP-MW-2	<b>DATE RECEIVED:</b>	8/26/2013
		<b>COLLECTION DATE:</b>	8/22/2013 5:00:00 PM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

<b>ANALYTE</b>	<b>METHOD</b>	<b>RESULTS</b>	<b>REPORTING LIMITS</b>	<b>DILUTION FACTOR</b>	<b>UNITS</b>	<b>ANALYSIS DATE</b>	<b>ANALYSIS BY</b>
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	08/28/2013	GAP
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Ethylbenzene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
m,p-Xylene	EPA-8260	U	4.0	1	UG/L	08/28/2013	GAP
Styrene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
o-Xylene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Bromoform	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Isopropylbenzene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
1,1,2,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Bromobenzene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
N-Propyl Benzene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
1,3,5-Trimethylbenzene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
T-Butyl Benzene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
1,2,4-Trimethylbenzene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
S-Butyl Benzene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
P-Isopropyltoluene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
1,3 Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
N-Butylbenzene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	08/28/2013	GAP
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Naphthalene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Pyridine	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
N-Nitrosodimethylamine	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Phenol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Aniline	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Bis(2-Chloroethyl)Ether	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
2-Chlorophenol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
1,3-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
1,4-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Benzyl Alcohol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP





**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	9/10/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13080134
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-68
<b>CLIENT SAMPLE ID</b>	TP-MW-2	<b>DATE RECEIVED:</b>	8/26/2013
		<b>COLLECTION DATE:</b>	8/22/2013 5:00:00 PM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

<b>ANALYTE</b>	<b>METHOD</b>	<b>RESULTS</b>	<b>REPORTING LIMITS</b>	<b>DILUTION FACTOR</b>	<b>UNITS</b>	<b>ANALYSIS DATE</b>	<b>ANALYSIS BY</b>
1,2-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
2-Methylphenol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Bis(2-Chloroisopropyl)Ether	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
3&4-Methylphenol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
N-Nitroso-Di-N-Propylamine	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Hexachloroethane	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Nitrobenzene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Isophorone	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
2-Nitrophenol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
2,4-Dimethylphenol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Benzoic Acid	EPA-8270	U	10	1	UG/L	09/04/2013	LAP
Bis(2-Chloroethoxy)Methane	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
2,4-Dichlorophenol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
1,2,4-Trichlorobenzene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Naphthalene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
4-Chloroaniline	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
2,6-Dichlorophenol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Hexachlorobutadiene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
4-Chloro-3-Methylphenol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
2-Methylnaphthalene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
1-Methylnaphthalene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Hexachlorocyclopentadiene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
2,4,6-Trichlorophenol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
2,4,5-Trichlorophenol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
2-Chloronaphthalene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
2-Nitroaniline	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Acenaphthylene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Dimethylphthalate	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
2,6-Dinitrotoluene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Acenaphthene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
3-Nitroaniline	EPA-8270	U	5.0	1	UG/L	09/04/2013	LAP
2,4-Dinitrophenol	EPA-8270	U	10	1	UG/L	09/04/2013	LAP
4-Nitrophenol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Dibenzofuran	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
2,4-Dinitrotoluene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
2,3,4,6-Tetrachlorophenol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Diethylphthalate	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Fluorene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	9/10/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13080134
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-68
CLIENT SAMPLE ID	TP-MW-2	DATE RECEIVED:	8/26/2013
		COLLECTION DATE:	8/22/2013 5:00:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
4-Chlorophenyl-Phenylether	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
4-Nitroaniline	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
4,6-Dinitro-2-Methylphenol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
N-Nitrosodiphenylamine	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Azobenzene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
4-Bromophenyl-Phenylether	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Hexachlorobenzene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Pentachlorophenol	EPA-8270	U	5.0	1	UG/L	09/04/2013	LAP
Phenanthrene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Anthracene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Carbazole	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Di-N-Butylphthalate	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Fluoranthene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Pyrene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Butylbenzylphthalate	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
3,3-Dichlorobenzidine	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Benzo[A]Anthracene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Chrysene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Di-N-Octylphthalate	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Benzo[B]Fluoranthene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Benzo[K]Fluoranthene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Benzo[A]Pyrene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Dibenz[A,H]Anthracene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Benzo[G,H,I]Perylene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Mercury (Dissolved)	EPA-7470	U	0.20	1	UG/L	08/27/2013	RAL
Arsenic (Dissolved)	EPA-200.8	2.5	1.0	1	UG/L	08/29/2013	RAL
Cadmium (Dissolved)	EPA-200.8	U	1.0	1	UG/L	08/29/2013	RAL
Chromium (Dissolved)	EPA-200.8	U	2.0	1	UG/L	08/29/2013	RAL
Iron (Dissolved)	EPA-200.8	8100	50	1	UG/L	08/29/2013	RAL
Lead (Dissolved)	EPA-200.8	U	1.0	1	UG/L	08/29/2013	RAL
Manganese (Dissolved)	EPA-200.8	1400	2.0	1	UG/L	08/29/2013	RAL
Sodium (Dissolved)	EPA-200.8	24000	50	1	UG/L	08/29/2013	RAL
Total Organic Carbon (TOC)	SM5310C	3.5	0.50	1	MG/L	08/30/2013	CAS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
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**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	9/10/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13080134
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-68
CLIENT SAMPLE ID	TP-MW-2	DATE RECEIVED:	8/26/2013
		COLLECTION DATE:	8/22/2013 5:00:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

SURROGATE	METHOD	%REC	ANALYSIS	ANALYSIS
			DATE	BY
TFT	NWTPH-GX	104	08/27/2013	DLC
C25	NWTPH-DX w/ SGA	97.9	08/27/2013	EBS
1,2-Dichloroethane-d4	EPA-8260	102	08/28/2013	GAP
Toluene-d8	EPA-8260	100	08/28/2013	GAP
4-Bromofluorobenzene	EPA-8260	100	08/28/2013	GAP
2-Fluorophenol	EPA-8270	41.4	09/04/2013	LAP
Phenol-d5	EPA-8270	61.3	09/04/2013	LAP
Nitrobenzene-d5	EPA-8270	96.2	09/04/2013	LAP
2-Fluorobiphenyl	EPA-8270	102 GS6	09/04/2013	LAP
2,4,6-Tribromophenol	EPA-8270	93.5	09/04/2013	LAP
Terphenyl-d14	EPA-8270	113	09/04/2013	LAP

GS6 - Surrogate outside of control limits. Single surrogate outlier per fraction is acceptable as per Method 8270D.  
 U - Analyte analyzed for but not detected at level above reporting limit.



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	9/10/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13080134
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-69
<b>CLIENT SAMPLE ID</b>	FPP-MW-2	<b>DATE RECEIVED:</b>	8/26/2013
		<b>COLLECTION DATE:</b>	8/23/2013 7:45:00 AM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

<b>ANALYTE</b>	<b>METHOD</b>	<b>RESULTS</b>	<b>REPORTING LIMITS</b>	<b>DILUTION FACTOR</b>	<b>UNITS</b>	<b>ANALYSIS DATE</b>	<b>ANALYSIS BY</b>
TPH-Volatile Range	NWTPH-GX	U	50	1	UG/L	08/27/2013	DLC
TPH-Diesel Range	NWTPH-DX w/ SGA	220	130	1	UG/L	08/27/2013	EBS
TPH-Oil Range	NWTPH-DX w/ SGA	U	250	1	UG/L	08/27/2013	EBS
Dichlorodifluoromethane	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Chloromethane	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Bromomethane	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Chloroethane	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Carbon Disulfide	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Acetone	EPA-8260	U	25	1	UG/L	08/28/2013	GAP
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	08/28/2013	GAP
Acrylonitrile	EPA-8260	U	10	1	UG/L	08/28/2013	GAP
Methyl T-Butyl Ether	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
2-Butanone	EPA-8260	U	10	1	UG/L	08/28/2013	GAP
Cis-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Chloroform	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Benzene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Dibromomethane	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
4-Methyl-2-Pentanone	EPA-8260	U	10	1	UG/L	08/28/2013	GAP
Toluene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
2-Hexanone	EPA-8260	U	10	1	UG/L	08/28/2013	GAP
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Tetrachloroethylene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	9/10/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13080134
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-69
<b>CLIENT SAMPLE ID</b>	FPP-MW-2	<b>DATE RECEIVED:</b>	8/26/2013
		<b>COLLECTION DATE:</b>	8/23/2013 7:45:00 AM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

<b>ANALYTE</b>	<b>METHOD</b>	<b>RESULTS</b>	<b>REPORTING LIMITS</b>	<b>DILUTION FACTOR</b>	<b>UNITS</b>	<b>ANALYSIS DATE</b>	<b>ANALYSIS BY</b>
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	08/28/2013	GAP
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Ethylbenzene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
m,p-Xylene	EPA-8260	U	4.0	1	UG/L	08/28/2013	GAP
Styrene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
o-Xylene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Bromoform	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Isopropylbenzene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
1,1,2,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Bromobenzene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
N-Propyl Benzene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
1,3,5-Trimethylbenzene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
T-Butyl Benzene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
1,2,4-Trimethylbenzene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
S-Butyl Benzene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
P-Isopropyltoluene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
1,3 Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
N-Butylbenzene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	08/28/2013	GAP
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Naphthalene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Pyridine	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
N-Nitrosodimethylamine	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Phenol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Aniline	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Bis(2-Chloroethyl)Ether	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
2-Chlorophenol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
1,3-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
1,4-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Benzyl Alcohol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	9/10/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13080134
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-69
<b>CLIENT SAMPLE ID</b>	FPF-MW-2	<b>DATE RECEIVED:</b>	8/26/2013
		<b>COLLECTION DATE:</b>	8/23/2013 7:45:00 AM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

<b>ANALYTE</b>	<b>METHOD</b>	<b>RESULTS</b>	<b>REPORTING LIMITS</b>	<b>DILUTION FACTOR</b>	<b>UNITS</b>	<b>ANALYSIS DATE</b>	<b>ANALYSIS BY</b>
1,2-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
2-Methylphenol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Bis(2-Chloroisopropyl)Ether	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
3&4-Methylphenol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
N-Nitroso-Di-N-Propylamine	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Hexachloroethane	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Nitrobenzene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Isophorone	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
2-Nitrophenol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
2,4-Dimethylphenol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Benzoic Acid	EPA-8270	U	10	1	UG/L	09/04/2013	LAP
Bis(2-Chloroethoxy)Methane	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
2,4-Dichlorophenol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
1,2,4-Trichlorobenzene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Naphthalene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
4-Chloroaniline	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
2,6-Dichlorophenol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Hexachlorobutadiene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
4-Chloro-3-Methylphenol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
2-Methylnaphthalene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
1-Methylnaphthalene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Hexachlorocyclopentadiene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
2,4,6-Trichlorophenol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
2,4,5-Trichlorophenol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
2-Chloronaphthalene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
2-Nitroaniline	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Acenaphthylene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Dimethylphthalate	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
2,6-Dinitrotoluene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Acenaphthene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
3-Nitroaniline	EPA-8270	U	5.0	1	UG/L	09/04/2013	LAP
2,4-Dinitrophenol	EPA-8270	U	10	1	UG/L	09/04/2013	LAP
4-Nitrophenol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Dibenzofuran	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
2,4-Dinitrotoluene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
2,3,4,6-Tetrachlorophenol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Diethylphthalate	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Fluorene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	9/10/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13080134
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-69
CLIENT SAMPLE ID	FPF-MW-2	DATE RECEIVED:	8/26/2013
		COLLECTION DATE:	8/23/2013 7:45:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
4-Chlorophenyl-Phenylether	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
4-Nitroaniline	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
4,6-Dinitro-2-Methylphenol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
N-Nitrosodiphenylamine	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Azobenzene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
4-Bromophenyl-Phenylether	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Hexachlorobenzene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Pentachlorophenol	EPA-8270	U	5.0	1	UG/L	09/04/2013	LAP
Phenanthrene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Anthracene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Carbazole	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Di-N-Butylphthalate	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Fluoranthene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Pyrene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Butylbenzylphthalate	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
3,3-Dichlorobenzidine	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Benzo[A]Anthracene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Chrysene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Bis(2-Ethylhexyl)Phthalate	EPA-8270	<b>2.8</b>	2.0	1	UG/L	09/04/2013	LAP
Di-N-Octylphthalate	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Benzo[B]Fluoranthene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Benzo[K]Fluoranthene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Benzo[A]Pyrene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Dibenz[A,H]Anthracene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Benzo[G,H,I]Perylene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Mercury (Dissolved)	EPA-7470	U	0.20	1	UG/L	08/27/2013	RAL
Arsenic (Dissolved)	EPA-200.8	<b>1.6</b>	1.0	1	UG/L	08/29/2013	RAL
Cadmium (Dissolved)	EPA-200.8	U	1.0	1	UG/L	08/29/2013	RAL
Chromium (Dissolved)	EPA-200.8	U	2.0	1	UG/L	08/29/2013	RAL
Iron (Dissolved)	EPA-200.8	<b>21000</b>	50	1	UG/L	08/29/2013	RAL
Lead (Dissolved)	EPA-200.8	U	1.0	1	UG/L	08/29/2013	RAL
Manganese (Dissolved)	EPA-200.8	<b>2300</b>	2.0	1	UG/L	08/29/2013	RAL
Sodium (Dissolved)	EPA-200.8	<b>50000</b>	50	1	UG/L	08/29/2013	RAL
Total Organic Carbon (TOC)	SM5310C	<b>18</b>	10	20	MG/L	08/30/2013	CAS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
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**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	9/10/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13080134
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-69
CLIENT SAMPLE ID	FPP-MW-2	DATE RECEIVED:	8/26/2013
		COLLECTION DATE:	8/23/2013 7:45:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

SURROGATE	METHOD	%REC	ANALYSIS	ANALYSIS
			DATE	BY
TFT	NWTPH-GX	106	08/27/2013	DLC
C25	NWTPH-DX w/ SGA	112	08/27/2013	EBS
1,2-Dichloroethane-d4	EPA-8260	102	08/28/2013	GAP
Toluene-d8	EPA-8260	99.7	08/28/2013	GAP
4-Bromofluorobenzene	EPA-8260	99.8	08/28/2013	GAP
2-Fluorophenol	EPA-8270	46.3	09/04/2013	LAP
Phenol-d5	EPA-8270	51.4	09/04/2013	LAP
Nitrobenzene-d5	EPA-8270	94.7	09/04/2013	LAP
2-Fluorobiphenyl	EPA-8270	89.9	09/04/2013	LAP
2,4,6-Tribromophenol	EPA-8270	98.0	09/04/2013	LAP
Terphenyl-d14	EPA-8270	107	09/04/2013	LAP

U - Analyte analyzed for but not detected at level above reporting limit.  
Chromatogram indicates that it is likely that sample contains weathered diesel.





**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	9/10/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13080134
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-70
<b>CLIENT SAMPLE ID</b>	FPP-MW-3	<b>DATE RECEIVED:</b>	8/26/2013
		<b>COLLECTION DATE:</b>	8/23/2013 9:00:00 AM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

<b>ANALYTE</b>	<b>METHOD</b>	<b>RESULTS</b>	<b>REPORTING LIMITS</b>	<b>DILUTION FACTOR</b>	<b>UNITS</b>	<b>ANALYSIS DATE</b>	<b>ANALYSIS BY</b>
TPH-Volatile Range	NWTPH-GX	U	50	1	UG/L	08/27/2013	DLC
TPH-Diesel Range	NWTPH-DX w/ SGA	240	130	1	UG/L	08/27/2013	EBS
TPH-Oil Range	NWTPH-DX w/ SGA	U	250	1	UG/L	08/27/2013	EBS
Dichlorodifluoromethane	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
Chloromethane	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
Bromomethane	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
Chloroethane	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
Carbon Disulfide	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
Acetone	EPA-8260	U	25	1	UG/L	08/29/2013	GAP
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	08/29/2013	GAP
Acrylonitrile	EPA-8260	U	10	1	UG/L	08/29/2013	GAP
Methyl T-Butyl Ether	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
2-Butanone	EPA-8260	U	10	1	UG/L	08/29/2013	GAP
Cis-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
Chloroform	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
Benzene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
Dibromomethane	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
4-Methyl-2-Pentanone	EPA-8260	U	10	1	UG/L	08/29/2013	GAP
Toluene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
2-Hexanone	EPA-8260	U	10	1	UG/L	08/29/2013	GAP
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
Tetrachloroethylene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	9/10/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13080134
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-70
<b>CLIENT SAMPLE ID</b>	FPP-MW-3	<b>DATE RECEIVED:</b>	8/26/2013
		<b>COLLECTION DATE:</b>	8/23/2013 9:00:00 AM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	08/29/2013	GAP
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
Ethylbenzene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
m,p-Xylene	EPA-8260	U	4.0	1	UG/L	08/29/2013	GAP
Styrene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
o-Xylene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
Bromoform	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
Isopropylbenzene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
1,1,2,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
Bromobenzene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
N-Propyl Benzene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
1,3,5-Trimethylbenzene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
T-Butyl Benzene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
1,2,4-Trimethylbenzene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
S-Butyl Benzene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
P-Isopropyltoluene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
1,3 Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
N-Butylbenzene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	08/29/2013	GAP
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
Naphthalene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
Pyridine	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
N-Nitrosodimethylamine	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Phenol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Aniline	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Bis(2-Chloroethyl)Ether	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
2-Chlorophenol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
1,3-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
1,4-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Benzyl Alcohol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	9/10/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13080134
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-70
<b>CLIENT SAMPLE ID</b>	FPF-MW-3	<b>DATE RECEIVED:</b>	8/26/2013
		<b>COLLECTION DATE:</b>	8/23/2013 9:00:00 AM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

<b>ANALYTE</b>	<b>METHOD</b>	<b>RESULTS</b>	<b>REPORTING LIMITS</b>	<b>DILUTION FACTOR</b>	<b>UNITS</b>	<b>ANALYSIS DATE</b>	<b>ANALYSIS BY</b>
1,2-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
2-Methylphenol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Bis(2-Chloroisopropyl)Ether	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
3&4-Methylphenol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
N-Nitroso-Di-N-Propylamine	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Hexachloroethane	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Nitrobenzene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Isophorone	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
2-Nitrophenol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
2,4-Dimethylphenol	EPA-8270	2.7	2.0	1	UG/L	09/04/2013	LAP
Benzoic Acid	EPA-8270	U	10	1	UG/L	09/04/2013	LAP
Bis(2-Chloroethoxy)Methane	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
2,4-Dichlorophenol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
1,2,4-Trichlorobenzene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Naphthalene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
4-Chloroaniline	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
2,6-Dichlorophenol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Hexachlorobutadiene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
4-Chloro-3-Methylphenol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
2-Methylnaphthalene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
1-Methylnaphthalene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Hexachlorocyclopentadiene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
2,4,6-Trichlorophenol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
2,4,5-Trichlorophenol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
2-Chloronaphthalene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
2-Nitroaniline	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Acenaphthylene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Dimethylphthalate	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
2,6-Dinitrotoluene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Acenaphthene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
3-Nitroaniline	EPA-8270	U	5.0	1	UG/L	09/04/2013	LAP
2,4-Dinitrophenol	EPA-8270	U	10	1	UG/L	09/04/2013	LAP
4-Nitrophenol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Dibenzofuran	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
2,4-Dinitrotoluene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
2,3,4,6-Tetrachlorophenol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Diethylphthalate	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Fluorene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	9/10/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13080134
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-70
CLIENT SAMPLE ID	FPF-MW-3	DATE RECEIVED:	8/26/2013
		COLLECTION DATE:	8/23/2013 9:00:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
4-Chlorophenyl-Phenylether	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
4-Nitroaniline	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
4,6-Dinitro-2-Methylphenol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
N-Nitrosodiphenylamine	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Azobenzene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
4-Bromophenyl-Phenylether	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Hexachlorobenzene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Pentachlorophenol	EPA-8270	U	5.0	1	UG/L	09/04/2013	LAP
Phenanthrene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Anthracene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Carbazole	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Di-N-Butylphthalate	EPA-8270	4.7	2.0	1	UG/L	09/04/2013	LAP
Fluoranthene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Pyrene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Butylbenzylphthalate	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
3,3-Dichlorobenzidine	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Benzo[A]Anthracene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Chrysene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Bis(2-Ethylhexyl)Phthalate	EPA-8270	13	2.0	1	UG/L	09/04/2013	LAP
Di-N-Octylphthalate	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Benzo[B]Fluoranthene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Benzo[K]Fluoranthene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Benzo[A]Pyrene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Dibenz[A,H]Anthracene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Benzo[G,H,I]Perylene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Mercury (Dissolved)	EPA-7470	U	0.20	1	UG/L	08/27/2013	RAL
Arsenic (Dissolved)	EPA-200.8	2.0	1.0	1	UG/L	08/29/2013	RAL
Cadmium (Dissolved)	EPA-200.8	U	1.0	1	UG/L	08/29/2013	RAL
Chromium (Dissolved)	EPA-200.8	U	2.0	1	UG/L	08/29/2013	RAL
Iron (Dissolved)	EPA-200.8	330	50	1	UG/L	08/29/2013	RAL
Lead (Dissolved)	EPA-200.8	U	1.0	1	UG/L	08/29/2013	RAL
Manganese (Dissolved)	EPA-200.8	240	2.0	1	UG/L	08/29/2013	RAL
Sodium (Dissolved)	EPA-200.8	100000	50	1	UG/L	08/29/2013	RAL
Total Organic Carbon (TOC)	SM5310C	17	10	20	MG/L	08/30/2013	CAS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
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**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	9/10/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13080134
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-70
<b>CLIENT SAMPLE ID</b>	FPP-MW-3	<b>DATE RECEIVED:</b>	8/26/2013
		<b>COLLECTION DATE:</b>	8/23/2013 9:00:00 AM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

SURROGATE	METHOD	%REC	ANALYSIS	ANALYSIS
			DATE	BY
TFT	NWTPH-GX	102	08/27/2013	DLC
C25	NWTPH-DX w/ SGA	97.7	08/27/2013	EBS
1,2-Dichloroethane-d4	EPA-8260	101	08/29/2013	GAP
Toluene-d8	EPA-8260	100	08/29/2013	GAP
4-Bromofluorobenzene	EPA-8260	99.7	08/29/2013	GAP
2-Fluorophenol	EPA-8270	84.8	09/04/2013	LAP
Phenol-d5	EPA-8270	54.6	09/04/2013	LAP
Nitrobenzene-d5	EPA-8270	96.3	09/04/2013	LAP
2-Fluorobiphenyl	EPA-8270	97.3	09/04/2013	LAP
2,4,6-Tribromophenol	EPA-8270	95.1	09/04/2013	LAP
Terphenyl-d14	EPA-8270	105	09/04/2013	LAP

U - Analyte analyzed for but not detected at level above reporting limit.  
Chromatogram indicates that it is likely that sample contains weathered diesel.



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	9/10/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13080134
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-71
<b>CLIENT SAMPLE ID</b>	FPP-MW-1	<b>DATE RECEIVED:</b>	8/26/2013
		<b>COLLECTION DATE:</b>	8/23/2013 10:45:00 AM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	50	1	UG/L	08/27/2013	DLC
TPH-Diesel Range	NWTPH-DX w/ SGA	480	130	1	UG/L	08/27/2013	EBS
TPH-Oil Range	NWTPH-DX w/ SGA	U	250	1	UG/L	08/27/2013	EBS
Dichlorodifluoromethane	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
Chloromethane	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
Bromomethane	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
Chloroethane	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
Carbon Disulfide	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
Acetone	EPA-8260	U	25	1	UG/L	08/29/2013	GAP
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	08/29/2013	GAP
Acrylonitrile	EPA-8260	U	10	1	UG/L	08/29/2013	GAP
Methyl T-Butyl Ether	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
2-Butanone	EPA-8260	U	10	1	UG/L	08/29/2013	GAP
Cis-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
Chloroform	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
Benzene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
Dibromomethane	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
4-Methyl-2-Pentanone	EPA-8260	U	10	1	UG/L	08/29/2013	GAP
Toluene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
2-Hexanone	EPA-8260	U	10	1	UG/L	08/29/2013	GAP
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
Tetrachloroethylene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	9/10/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13080134
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-71
<b>CLIENT SAMPLE ID</b>	FPP-MW-1	<b>DATE RECEIVED:</b>	8/26/2013
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		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	08/29/2013	GAP
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
Ethylbenzene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
m,p-Xylene	EPA-8260	U	4.0	1	UG/L	08/29/2013	GAP
Styrene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
o-Xylene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
Bromoform	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
Isopropylbenzene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
1,1,2,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
Bromobenzene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
N-Propyl Benzene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
1,3,5-Trimethylbenzene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
T-Butyl Benzene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
1,2,4-Trimethylbenzene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
S-Butyl Benzene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
P-Isopropyltoluene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
1,3 Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
N-Butylbenzene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	08/29/2013	GAP
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
Naphthalene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
Pyridine	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
N-Nitrosodimethylamine	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Phenol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Aniline	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Bis(2-Chloroethyl)Ether	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
2-Chlorophenol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
1,3-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
1,4-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Benzyl Alcohol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	9/10/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13080134
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-71
<b>CLIENT SAMPLE ID</b>	FPP-MW-1	<b>DATE RECEIVED:</b>	8/26/2013
		<b>COLLECTION DATE:</b>	8/23/2013 10:45:00 AM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

<b>ANALYTE</b>	<b>METHOD</b>	<b>RESULTS</b>	<b>REPORTING LIMITS</b>	<b>DILUTION FACTOR</b>	<b>UNITS</b>	<b>ANALYSIS DATE</b>	<b>ANALYSIS BY</b>
1,2-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
2-Methylphenol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Bis(2-Chloroisopropyl)Ether	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
3&4-Methylphenol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
N-Nitroso-Di-N-Propylamine	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Hexachloroethane	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Nitrobenzene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Isophorone	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
2-Nitrophenol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
2,4-Dimethylphenol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Benzoic Acid	EPA-8270	U	10	1	UG/L	09/04/2013	LAP
Bis(2-Chloroethoxy)Methane	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
2,4-Dichlorophenol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
1,2,4-Trichlorobenzene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Naphthalene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
4-Chloroaniline	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
2,6-Dichlorophenol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Hexachlorobutadiene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
4-Chloro-3-Methylphenol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
2-Methylnaphthalene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
1-Methylnaphthalene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Hexachlorocyclopentadiene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
2,4,6-Trichlorophenol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
2,4,5-Trichlorophenol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
2-Chloronaphthalene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
2-Nitroaniline	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Acenaphthylene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Dimethylphthalate	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
2,6-Dinitrotoluene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Acenaphthene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
3-Nitroaniline	EPA-8270	U	5.0	1	UG/L	09/04/2013	LAP
2,4-Dinitrophenol	EPA-8270	U	10	1	UG/L	09/04/2013	LAP
4-Nitrophenol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Dibenzofuran	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
2,4-Dinitrotoluene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
2,3,4,6-Tetrachlorophenol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Diethylphthalate	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Fluorene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP





**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	9/10/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13080134
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-71
CLIENT SAMPLE ID	FPP-MW-1	DATE RECEIVED:	8/26/2013
		COLLECTION DATE:	8/23/2013 10:45:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
4-Chlorophenyl-Phenylether	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
4-Nitroaniline	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
4,6-Dinitro-2-Methylphenol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
N-Nitrosodiphenylamine	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Azobenzene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
4-Bromophenyl-Phenylether	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Hexachlorobenzene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Pentachlorophenol	EPA-8270	U	5.0	1	UG/L	09/04/2013	LAP
Phenanthrene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Anthracene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Carbazole	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Di-N-Butylphthalate	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Fluoranthene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Pyrene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Butylbenzylphthalate	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
3,3-Dichlorobenzidine	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Benzo[A]Anthracene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Chrysene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Bis(2-Ethylhexyl)Phthalate	EPA-8270	4.0	2.0	1	UG/L	09/04/2013	LAP
Di-N-Octylphthalate	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Benzo[B]Fluoranthene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Benzo[K]Fluoranthene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Benzo[A]Pyrene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Dibenz[A,H]Anthracene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Benzo[G,H,I]Perylene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Mercury (Dissolved)	EPA-7470	U	0.20	1	UG/L	08/27/2013	RAL
Arsenic (Dissolved)	EPA-200.8	5.3	1.0	1	UG/L	08/29/2013	RAL
Cadmium (Dissolved)	EPA-200.8	U	1.0	1	UG/L	08/29/2013	RAL
Chromium (Dissolved)	EPA-200.8	U	2.0	1	UG/L	08/29/2013	RAL
Iron (Dissolved)	EPA-200.8	59000	50	1	UG/L	08/29/2013	RAL
Lead (Dissolved)	EPA-200.8	U	1.0	1	UG/L	08/29/2013	RAL
Manganese (Dissolved)	EPA-200.8	9900	40	20	UG/L	08/29/2013	RAL
Sodium (Dissolved)	EPA-200.8	91000	50	1	UG/L	08/29/2013	RAL
Total Organic Carbon (TOC)	SM5310C	38	12	25	MG/L	08/30/2013	CAS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
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**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	9/10/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13080134
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-71
CLIENT SAMPLE ID	FPP-MW-1	DATE RECEIVED:	8/26/2013
		COLLECTION DATE:	8/23/2013 10:45:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

SURROGATE	METHOD	%REC	ANALYSIS	ANALYSIS
			DATE	BY
TFT	NWTPH-GX	112	08/27/2013	DLC
C25	NWTPH-DX w/ SGA	94.6	08/27/2013	EBS
1,2-Dichloroethane-d4	EPA-8260	103	08/29/2013	GAP
Toluene-d8	EPA-8260	101	08/29/2013	GAP
4-Bromofluorobenzene	EPA-8260	99.0	08/29/2013	GAP
2-Fluorophenol	EPA-8270	86.9	09/04/2013	LAP
Phenol-d5	EPA-8270	51.5	09/04/2013	LAP
Nitrobenzene-d5	EPA-8270	100	09/04/2013	LAP
2-Fluorobiphenyl	EPA-8270	91.5	09/04/2013	LAP
2,4,6-Tribromophenol	EPA-8270	101	09/04/2013	LAP
Terphenyl-d14	EPA-8270	98.5	09/04/2013	LAP

U - Analyte analyzed for but not detected at level above reporting limit.  
Chromatogram indicates that it is likely that sample contains weathered diesel.



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	9/10/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13080134
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-72
CLIENT SAMPLE ID	FPP-B28-GW (19)	DATE RECEIVED:	8/26/2013
		COLLECTION DATE:	8/23/2013 11:30:00 AM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	470	130	1	UG/L	08/27/2013	EBS
TPH-Oil Range	NWTPH-DX w/ SGA	470	250	1	UG/L	08/27/2013	EBS
Mercury (Dissolved)	EPA-7470	U	0.20	1	UG/L	08/27/2013	RAL
Arsenic (Dissolved)	EPA-200.8	U	1.0	1	UG/L	08/29/2013	RAL
Cadmium (Dissolved)	EPA-200.8	U	1.0	1	UG/L	08/29/2013	RAL
Chromium (Dissolved)	EPA-200.8	U	2.0	1	UG/L	08/29/2013	RAL
Iron (Dissolved)	EPA-200.8	24000	50	1	UG/L	08/29/2013	RAL
Lead (Dissolved)	EPA-200.8	U	1.0	1	UG/L	08/29/2013	RAL
Manganese (Dissolved)	EPA-200.8	2300	2.0	1	UG/L	08/29/2013	RAL
Sodium (Dissolved)	EPA-200.8	68000	50	1	UG/L	08/29/2013	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX w/ SGA	101	08/27/2013	EBS

U - Analyte analyzed for but not detected at level above reporting limit.  
 Chromatogram indicates that it is likely that sample contains weathered diesel and light oil/lube oil.



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	9/10/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS JOB#:	EV13080134
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	ALS SAMPLE#:	-73
CLIENT SAMPLE ID	FPP-B29b-GW (19)	DATE RECEIVED:	8/26/2013
		COLLECTION DATE:	8/23/2013 1:10:00 PM
		WDOE ACCREDITATION:	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX w/ SGA	2000	130	1	UG/L	08/27/2013	EBS
TPH-Oil Range	NWTPH-DX w/ SGA	1900	250	1	UG/L	08/27/2013	EBS
Mercury (Dissolved)	EPA-7470	U	0.20	1	UG/L	08/27/2013	RAL
Arsenic (Dissolved)	EPA-200.8	3.6	1.0	1	UG/L	08/29/2013	RAL
Cadmium (Dissolved)	EPA-200.8	U	1.0	1	UG/L	08/29/2013	RAL
Chromium (Dissolved)	EPA-200.8	U	2.0	1	UG/L	08/29/2013	RAL
Iron (Dissolved)	EPA-200.8	23000	50	1	UG/L	08/29/2013	RAL
Lead (Dissolved)	EPA-200.8	U	1.0	1	UG/L	08/29/2013	RAL
Manganese (Dissolved)	EPA-200.8	6100	40	20	UG/L	08/29/2013	RAL
Sodium (Dissolved)	EPA-200.8	110000	50	1	UG/L	08/29/2013	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX w/ SGA	97.7	08/27/2013	EBS

U - Analyte analyzed for but not detected at level above reporting limit.  
 Chromatogram indicates that it is likely that sample contains an unidentified diesel range product and lube oil.  
 Diesel range product results biased high due to oil range product overlap.



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	9/10/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13080134
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-74
<b>CLIENT SAMPLE ID</b>	TRIP BLANKS	<b>DATE RECEIVED:</b>	8/26/2013
		<b>COLLECTION DATE:</b>	8/23/2013 8:00:00 AM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	50	1	UG/L	08/27/2013	DLC
Dichlorodifluoromethane	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
Chloromethane	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
Bromomethane	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
Chloroethane	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
Carbon Disulfide	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
Acetone	EPA-8260	U	25	1	UG/L	08/29/2013	GAP
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	08/29/2013	GAP
Acrylonitrile	EPA-8260	U	10	1	UG/L	08/29/2013	GAP
Methyl T-Butyl Ether	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
2-Butanone	EPA-8260	U	10	1	UG/L	08/29/2013	GAP
Cis-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
Chloroform	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
Benzene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
Dibromomethane	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
4-Methyl-2-Pentanone	EPA-8260	U	10	1	UG/L	08/29/2013	GAP
Toluene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
2-Hexanone	EPA-8260	U	10	1	UG/L	08/29/2013	GAP
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
Tetrachloroethylene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	08/29/2013	GAP
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b>	9/10/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS JOB#:</b>	EV13080134
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>ALS SAMPLE#:</b>	-74
<b>CLIENT SAMPLE ID</b>	TRIP BLANKS	<b>DATE RECEIVED:</b>	8/26/2013
		<b>COLLECTION DATE:</b>	8/23/2013 8:00:00 AM
		<b>WDOE ACCREDITATION:</b>	C601

**DATA RESULTS**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
Ethylbenzene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
m,p-Xylene	EPA-8260	U	4.0	1	UG/L	08/29/2013	GAP
Styrene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
o-Xylene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
Bromoform	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
Isopropylbenzene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
1,1,2,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
Bromobenzene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
N-Propyl Benzene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
1,3,5-Trimethylbenzene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
T-Butyl Benzene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
1,2,4-Trimethylbenzene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
S-Butyl Benzene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
P-Isopropyltoluene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
1,3 Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
N-Butylbenzene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	08/29/2013	GAP
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
Naphthalene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	08/29/2013	GAP

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
TFT	NWTPH-GX	102	08/27/2013	DLC
1,2-Dichloroethane-d4	EPA-8260	101	08/29/2013	GAP
Toluene-d8	EPA-8260	99.8	08/29/2013	GAP
4-Bromofluorobenzene	EPA-8260	98.5	08/29/2013	GAP

U - Analyte analyzed for but not detected at level above reporting limit.



**CERTIFICATE OF ANALYSIS**

CLIENT: Landau Associates, Inc. DATE: 9/10/2013  
 130 - 2nd Ave. S. ALS SDG#: EV13080134  
 Edmonds, WA 98020 WDOE ACCREDITATION: C601

CLIENT CONTACT: Jeffrey Fellows  
 CLIENT PROJECT: Yakima Mill Site / #1148007.010

**LABORATORY BLANK RESULTS**

**MBG-082613W - Batch 6872 - Water by NWTPH-GX**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range	NWTPH-GX	U	50	1	UG/L	08/26/2013	DLC

**MB-082713S2 - Batch 6897 - Soil by NWTPH-DX**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX	U	25	1	MG/KG	08/27/2013	EBS
TPH-Oil Range	NWTPH-DX	U	50	1	MG/KG	08/27/2013	EBS

**MB-082713W2 - Batch 6868 - Water by NWTPH-DX**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX	U	130	1	UG/L	08/28/2013	EBS
TPH-Oil Range	NWTPH-DX	U	250	1	UG/L	08/28/2013	EBS

**MB-082813W - Batch 6921 - Water by EPA-8260**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Chloromethane	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Bromomethane	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Chloroethane	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Carbon Tetrachloride	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Trichlorofluoromethane	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Carbon Disulfide	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Acetone	EPA-8260	U	25	1	UG/L	08/28/2013	GAP
1,1-Dichloroethene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Methylene Chloride	EPA-8260	U	5.0	1	UG/L	08/28/2013	GAP
Acrylonitrile	EPA-8260	U	10	1	UG/L	08/28/2013	GAP
Methyl T-Butyl Ether	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Trans-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
1,1-Dichloroethane	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
2-Butanone	EPA-8260	U	10	1	UG/L	08/28/2013	GAP
Cis-1,2-Dichloroethene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
2,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Bromochloromethane	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Chloroform	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
1,1,1-Trichloroethane	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
1,1-Dichloropropene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	9/10/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS SDG#:	EV13080134
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	WDOE ACCREDITATION:	C601

**LABORATORY BLANK RESULTS**

**MB-082813W - Batch 6921 - Water by EPA-8260**

1,2-Dichloroethane	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Benzene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
1,2-Dichloropropane	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Dibromomethane	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Bromodichloromethane	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Trans-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
4-Methyl-2-Pentanone	EPA-8260	U	10	1	UG/L	08/28/2013	GAP
Toluene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Cis-1,3-Dichloropropene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
1,1,2-Trichloroethane	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
2-Hexanone	EPA-8260	U	10	1	UG/L	08/28/2013	GAP
1,3-Dichloropropane	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Tetrachloroethylene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Dibromochloromethane	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
1,2-Dibromoethane	EPA-8260	U	0.010	1	UG/L	08/28/2013	GAP
Chlorobenzene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
1,1,1,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Ethylbenzene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
m,p-Xylene	EPA-8260	U	4.0	1	UG/L	08/28/2013	GAP
Styrene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
o-Xylene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Bromoform	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Isopropylbenzene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
1,1,2,2-Tetrachloroethane	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
1,2,3-Trichloropropane	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Bromobenzene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
N-Propyl Benzene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
2-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
1,3,5-Trimethylbenzene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
4-Chlorotoluene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
T-Butyl Benzene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
1,2,4-Trimethylbenzene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
S-Butyl Benzene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
P-Isopropyltoluene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
1,3 Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
1,4-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
N-Butylbenzene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
1,2-Dichlorobenzene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
1,2-Dibromo 3-Chloropropane	EPA-8260	U	10	1	UG/L	08/28/2013	GAP
1,2,4-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP





**CERTIFICATE OF ANALYSIS**

CLIENT: Landau Associates, Inc. DATE: 9/10/2013  
 130 - 2nd Ave. S. ALS SDG#: EV13080134  
 Edmonds, WA 98020 WDOE ACCREDITATION: C601

CLIENT CONTACT: Jeffrey Fellows  
 CLIENT PROJECT: Yakima Mill Site / #1148007.010

**LABORATORY BLANK RESULTS**

**MB-082813W - Batch 6921 - Water by EPA-8260**

Hexachlorobutadiene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
Naphthalene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP
1,2,3-Trichlorobenzene	EPA-8260	U	2.0	1	UG/L	08/28/2013	GAP

**MB-082813W - Batch 6962 - Water by EPA-8270**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Pyridine	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
N-Nitrosodimethylamine	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Phenol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Aniline	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Bis(2-Chloroethyl)Ether	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
2-Chlorophenol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
1,3-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
1,4-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Benzyl Alcohol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
1,2-Dichlorobenzene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
2-Methylphenol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Bis(2-Chloroisopropyl)Ether	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
3&4-Methylphenol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
N-Nitroso-Di-N-Propylamine	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Hexachloroethane	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Nitrobenzene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Isophorone	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
2-Nitrophenol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
2,4-Dimethylphenol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Benzoic Acid	EPA-8270	U	10	1	UG/L	09/04/2013	LAP
Bis(2-Chloroethoxy)Methane	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
2,4-Dichlorophenol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
1,2,4-Trichlorobenzene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Naphthalene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
4-Chloroaniline	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
2,6-Dichlorophenol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Hexachlorobutadiene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
4-Chloro-3-Methylphenol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
2-Methylnaphthalene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
1-Methylnaphthalene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Hexachlorocyclopentadiene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
2,4,6-Trichlorophenol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
2,4,5-Trichlorophenol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	9/10/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS SDG#:	EV13080134
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	WDOE ACCREDITATION:	C601

**LABORATORY BLANK RESULTS**

**MB-082813W - Batch 6962 - Water by EPA-8270**

2-Chloronaphthalene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
2-Nitroaniline	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Acenaphthylene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Dimethylphthalate	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
2,6-Dinitrotoluene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Acenaphthene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
3-Nitroaniline	EPA-8270	U	5.0	1	UG/L	09/04/2013	LAP
2,4-Dinitrophenol	EPA-8270	U	10	1	UG/L	09/04/2013	LAP
4-Nitrophenol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Dibenzofuran	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
2,4-Dinitrotoluene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
2,3,4,6-Tetrachlorophenol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Diethylphthalate	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Fluorene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
4-Chlorophenyl-Phenylether	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
4-Nitroaniline	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
4,6-Dinitro-2-Methylphenol	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
N-Nitrosodiphenylamine	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Azobenzene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
4-Bromophenyl-Phenylether	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Hexachlorobenzene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Pentachlorophenol	EPA-8270	U	5.0	1	UG/L	09/04/2013	LAP
Phenanthrene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Anthracene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Carbazole	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Di-N-Butylphthalate	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Fluoranthene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Pyrene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Butylbenzylphthalate	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
3,3-Dichlorobenzidine	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Benzo[A]Anthracene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Chrysene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Bis(2-Ethylhexyl)Phthalate	EPA-8270	7	2.0	1	UG/L	09/04/2013	LAP
Di-N-Octylphthalate	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Benzo[B]Fluoranthene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Benzo[K]Fluoranthene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Benzo[A]Pyrene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Indeno[1,2,3-Cd]Pyrene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Dibenz[A,H]Anthracene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP
Benzo[G,H,I]Perylene	EPA-8270	U	2.0	1	UG/L	09/04/2013	LAP



**CERTIFICATE OF ANALYSIS**

CLIENT: Landau Associates, Inc. DATE: 9/10/2013  
 130 - 2nd Ave. S. ALS SDG#: EV13080134  
 Edmonds, WA 98020 WDOE ACCREDITATION: C601

CLIENT CONTACT: Jeffrey Fellows  
 CLIENT PROJECT: Yakima Mill Site / #1148007.010

**LABORATORY BLANK RESULTS**

**MB-082813W - Batch 6962 - Water by EPA-8270**

**MBLK-8302013 - Batch R90781 - Soil by EPA-8082**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
PCB-1016	EPA-8082	U	0.10	1	MG/KG	08/30/2013	LAP
PCB-1221	EPA-8082	U	0.10	1	MG/KG	08/30/2013	LAP
PCB-1232	EPA-8082	U	0.10	1	MG/KG	08/30/2013	LAP
PCB-1242	EPA-8082	U	0.10	1	MG/KG	08/30/2013	LAP
PCB-1248	EPA-8082	U	0.10	1	MG/KG	08/30/2013	LAP
PCB-1254	EPA-8082	U	0.10	1	MG/KG	08/30/2013	LAP
PCB-1260	EPA-8082	U	0.10	1	MG/KG	08/30/2013	LAP
PCB-1268	EPA-8082	U	0.10	1	MG/KG	08/30/2013	LAP

**MBLK-942013 - Batch R90794 - Soil by EPA-7471**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Mercury	EPA-7471	U	0.020	1	MG/KG	09/04/2013	RAL

**MBLK-8272013 - Batch R90795 - Water by EPA-7470**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Mercury (Dissolved)	EPA-7470	U	0.20	1	UG/L	08/27/2013	RAL

**MB-082813S - Batch 6875 - Soil by EPA-6020**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Arsenic	EPA-6020	U	0.20	1	MG/KG	08/28/2013	RAL
Cadmium	EPA-6020	U	0.10	1	MG/KG	08/28/2013	RAL
Chromium	EPA-6020	U	0.10	1	MG/KG	08/28/2013	RAL
Iron	EPA-6020	U	10	1	MG/KG	08/28/2013	RAL
Lead	EPA-6020	U	0.10	1	MG/KG	08/28/2013	RAL
Manganese	EPA-6020	U	0.10	1	MG/KG	08/28/2013	RAL

**MB-082713W - Batch 6859 - Water by EPA-200.8**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Arsenic (Dissolved)	EPA-200.8	U	1.0	1	UG/L	08/27/2013	RAL
Cadmium (Dissolved)	EPA-200.8	U	1.0	1	UG/L	08/27/2013	RAL
Chromium (Dissolved)	EPA-200.8	U	2.0	1	UG/L	08/27/2013	RAL
Iron (Dissolved)	EPA-200.8	U	50	1	UG/L	08/27/2013	RAL



**CERTIFICATE OF ANALYSIS**

CLIENT: Landau Associates, Inc. DATE: 9/10/2013  
 130 - 2nd Ave. S. ALS SDG#: EV13080134  
 Edmonds, WA 98020 WDOE ACCREDITATION: C601  
 CLIENT CONTACT: Jeffrey Fellows  
 CLIENT PROJECT: Yakima Mill Site / #1148007.010

**LABORATORY BLANK RESULTS**

**MB-082713W - Batch 6859 - Water by EPA-200.8**

Lead (Dissolved)	EPA-200.8	U	1.0	1	UG/L	08/27/2013	RAL
Manganese (Dissolved)	EPA-200.8	U	2.0	1	UG/L	08/27/2013	RAL
Sodium (Dissolved)	EPA-200.8	U	50	1	UG/L	08/27/2013	RAL

**MB4-09/03/2013 - Batch R90797 - Soil by ASTM D4129-05M**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Total Organic Carbon (TOC)	ASTM D4129-05M	U	0.050	1	%	09/03/2013	CAS

**MB1-08/30/2013 - Batch R90796 - Water by SM5310C**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Total Organic Carbon (TOC)	SM5310C	U	0.50	1	MG/L	08/30/2013	CAS

**MB2-08/30/2013 - Batch R90796 - Water by SM5310C**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Total Organic Carbon (TOC)	SM5310C	U	0.50	1	MG/L	08/30/2013	CAS

**MB3-08/30/2013 - Batch R90796 - Water by SM5310C**

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Total Organic Carbon (TOC)	SM5310C	U	0.50	1	MG/L	08/30/2013	CAS



**CERTIFICATE OF ANALYSIS**

CLIENT:	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	DATE:	9/10/2013
CLIENT CONTACT:	Jeffrey Fellows	ALS SDG#:	EV13080134
CLIENT PROJECT:	Yakima Mill Site / #1148007.010	WDOE ACCREDITATION:	C601

**LABORATORY CONTROL SAMPLE RESULTS**

**ALS Test Batch ID: 6872 - Water by NWTPH-GX**

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
TPH-Volatile Range - BS	NWTPH-GX	76.4			08/27/2013	DLC
TPH-Volatile Range - BSD	NWTPH-GX	78.5	3		08/27/2013	DLC

**ALS Test Batch ID: 6897 - Soil by NWTPH-DX**

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range - BS	NWTPH-DX	98.1			08/28/2013	EBS
TPH-Diesel Range - BSD	NWTPH-DX	98.0	0		08/28/2013	EBS

**ALS Test Batch ID: 6868 - Water by NWTPH-DX**

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range - BS	NWTPH-DX	104			08/27/2013	EBS
TPH-Diesel Range - BSD	NWTPH-DX	92.0	13		08/27/2013	EBS

**ALS Test Batch ID: 6921 - Water by EPA-8260**

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
1,1-Dichloroethene - BS	EPA-8260	96.1			08/28/2013	GAP
1,1-Dichloroethene - BSD	EPA-8260	102	6		08/28/2013	GAP
Benzene - BS	EPA-8260	111			08/28/2013	GAP
Benzene - BSD	EPA-8260	116	5		08/28/2013	GAP
Toluene - BS	EPA-8260	99.6			08/28/2013	GAP
Toluene - BSD	EPA-8260	104	4		08/28/2013	GAP
Chlorobenzene - BS	EPA-8260	98.5			08/28/2013	GAP
Chlorobenzene - BSD	EPA-8260	102	4		08/28/2013	GAP

**ALS Test Batch ID: 6962 - Water by EPA-8270**

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Phenol - BS	EPA-8270	23.0			09/06/2013	LAP
Phenol - BSD	EPA-8270	22.5	2		09/06/2013	LAP
2-Chlorophenol - BS	EPA-8270	64.0			09/06/2013	LAP
2-Chlorophenol - BSD	EPA-8270	63.2	1		09/06/2013	LAP
1,4-Dichlorobenzene - BS	EPA-8270	79.5			09/06/2013	LAP
1,4-Dichlorobenzene - BSD	EPA-8270	78.8	1		09/06/2013	LAP
N-Nitroso-Di-N-Propylamine - BS	EPA-8270	71.0			09/06/2013	LAP
N-Nitroso-Di-N-Propylamine - BSD	EPA-8270	66.2	7		09/06/2013	LAP



**CERTIFICATE OF ANALYSIS**

<b>CLIENT:</b>	Landau Associates, Inc. 130 - 2nd Ave. S. Edmonds, WA 98020	<b>DATE:</b> 9/10/2013
<b>CLIENT CONTACT:</b>	Jeffrey Fellows	<b>ALS SDG#:</b> EV13080134
<b>CLIENT PROJECT:</b>	Yakima Mill Site / #1148007.010	<b>WDOE ACCREDITATION:</b> C601

**LABORATORY CONTROL SAMPLE RESULTS**

<b>SPIKED COMPOUND</b>	<b>METHOD</b>	<b>%REC</b>	<b>RPD</b>	<b>QUAL</b>	<b>ANALYSIS DATE</b>	<b>ANALYSIS BY</b>
1,2,4-Trichlorobenzene - BS	EPA-8270	81.9			09/06/2013	LAP
1,2,4-Trichlorobenzene - BSD	EPA-8270	81.9	0		09/06/2013	LAP
4-Chloro-3-Methylphenol - BS	EPA-8270	78.0			09/06/2013	LAP
4-Chloro-3-Methylphenol - BSD	EPA-8270	79.9	3		09/06/2013	LAP
Acenaphthene - BS	EPA-8270	86.4			09/06/2013	LAP
Acenaphthene - BSD	EPA-8270	86.2	0		09/06/2013	LAP
4-Nitrophenol - BS	EPA-8270	19.9			09/06/2013	LAP
4-Nitrophenol - BSD	EPA-8270	19.7	1		09/06/2013	LAP
2,4-Dinitrotoluene - BS	EPA-8270	81.4			09/06/2013	LAP
2,4-Dinitrotoluene - BSD	EPA-8270	85.9	5		09/06/2013	LAP
Pentachlorophenol - BS	EPA-8270	56.9			09/06/2013	LAP
Pentachlorophenol - BSD	EPA-8270	58.8	3		09/06/2013	LAP
Pyrene - BS	EPA-8270	87.8			09/06/2013	LAP
Pyrene - BSD	EPA-8270	88.8	1		09/06/2013	LAP

**ALS Test Batch ID: R90781 - Soil by EPA-8082**

<b>SPIKED COMPOUND</b>	<b>METHOD</b>	<b>%REC</b>	<b>RPD</b>	<b>QUAL</b>	<b>ANALYSIS DATE</b>	<b>ANALYSIS BY</b>
PCB-1016 - BS	EPA-8082	89.0			08/30/2013	LAP
PCB-1016 - BSD	EPA-8082	113	24		08/30/2013	LAP
PCB-1260 - BS	EPA-8082	95.0			08/30/2013	LAP
PCB-1260 - BSD	EPA-8082	112	16		08/30/2013	LAP

**ALS Test Batch ID: R90794 - Soil by EPA-7471**

<b>SPIKED COMPOUND</b>	<b>METHOD</b>	<b>%REC</b>	<b>RPD</b>	<b>QUAL</b>	<b>ANALYSIS DATE</b>	<b>ANALYSIS BY</b>
Mercury - BS	EPA-7471	107			09/04/2013	RAL
Mercury - BSD	EPA-7471	100	7		09/04/2013	RAL

**ALS Test Batch ID: R90795 - Water by EPA-7470**

<b>SPIKED COMPOUND</b>	<b>METHOD</b>	<b>%REC</b>	<b>RPD</b>	<b>QUAL</b>	<b>ANALYSIS DATE</b>	<b>ANALYSIS BY</b>
Mercury (Dissolved) - BS	EPA-7470	108			08/27/2013	RAL
Mercury (Dissolved) - BSD	EPA-7470	107	1		08/27/2013	RAL

**ALS Test Batch ID: 6875 - Soil by EPA-6020**

<b>SPIKED COMPOUND</b>	<b>METHOD</b>	<b>%REC</b>	<b>RPD</b>	<b>QUAL</b>	<b>ANALYSIS DATE</b>	<b>ANALYSIS BY</b>
Arsenic - BS	EPA-6020	102			08/28/2013	RAL



**CERTIFICATE OF ANALYSIS**

CLIENT: Landau Associates, Inc. DATE: 9/10/2013  
 130 - 2nd Ave. S. ALS SDG#: EV13080134  
 Edmonds, WA 98020 WDOE ACCREDITATION: C601

CLIENT CONTACT: Jeffrey Fellows  
 CLIENT PROJECT: Yakima Mill Site / #1148007.010

**LABORATORY CONTROL SAMPLE RESULTS**

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Arsenic - BSD	EPA-6020	102	1		08/28/2013	RAL
Cadmium - BS	EPA-6020	104			08/28/2013	RAL
Cadmium - BSD	EPA-6020	104	0		08/28/2013	RAL
Chromium - BS	EPA-6020	104			08/28/2013	RAL
Chromium - BSD	EPA-6020	105	1		08/28/2013	RAL
Iron - BS	EPA-6020	106			08/28/2013	RAL
Iron - BSD	EPA-6020	105	0		08/28/2013	RAL
Lead - BS	EPA-6020	104			08/28/2013	RAL
Lead - BSD	EPA-6020	105	1		08/28/2013	RAL
Manganese - BS	EPA-6020	105			08/28/2013	RAL
Manganese - BSD	EPA-6020	105	0		08/28/2013	RAL

**ALS Test Batch ID: 6859 - Water by EPA-200.8**

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Arsenic (Dissolved) - BS	EPA-200.8	106			08/27/2013	RAL
Arsenic (Dissolved) - BSD	EPA-200.8	104	1		08/27/2013	RAL
Cadmium (Dissolved) - BS	EPA-200.8	106			08/27/2013	RAL
Cadmium (Dissolved) - BSD	EPA-200.8	102	3		08/27/2013	RAL
Chromium (Dissolved) - BS	EPA-200.8	105			08/27/2013	RAL
Chromium (Dissolved) - BSD	EPA-200.8	104	2		08/27/2013	RAL
Iron (Dissolved) - BS	EPA-200.8	106			08/27/2013	RAL
Iron (Dissolved) - BSD	EPA-200.8	104	2		08/27/2013	RAL
Lead (Dissolved) - BS	EPA-200.8	104			08/27/2013	RAL
Lead (Dissolved) - BSD	EPA-200.8	101	3		08/27/2013	RAL
Manganese (Dissolved) - BS	EPA-200.8	106			08/27/2013	RAL
Manganese (Dissolved) - BSD	EPA-200.8	103	3		08/27/2013	RAL
Sodium (Dissolved) - BS	EPA-200.8	99.9			08/27/2013	RAL
Sodium (Dissolved) - BSD	EPA-200.8	96.7	3		08/27/2013	RAL

**ALS Test Batch ID: R90797 - Soil by ASTM D4129-05M**

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Total Organic Carbon (TOC) - BS	ASTM D4129-05M	96.4			09/03/2013	CAS

**ALS Test Batch ID: R90796 - Water by SM5310C**

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Total Organic Carbon (TOC) - BS	SM5310C	92.8			08/30/2013	CAS



CERTIFICATE OF ANALYSIS

CLIENT: Landau Associates, Inc. DATE: 9/10/2013  
130 - 2nd Ave. S. ALS SDG#: EV13080134  
Edmonds, WA 98020 WDOE ACCREDITATION: C601  
CLIENT CONTACT: Jeffrey Fellows  
CLIENT PROJECT: Yakima Mill Site / #1148007.010

LABORATORY CONTROL SAMPLE RESULTS

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
Total Organic Carbon (TOC) - BS	SM5310C	94.5			08/30/2013	CAS
Total Organic Carbon (TOC) - BS	SM5310C	94.5			08/30/2013	CAS





**CERTIFICATE OF ANALYSIS**

CLIENT: Landau Associates, Inc. DATE: 9/10/2013  
 130 - 2nd Ave. S. ALS SDG#: EV13080134  
 Edmonds, WA 98020 WDOE ACCREDITATION: C601

CLIENT CONTACT: Jeffrey Fellows  
 CLIENT PROJECT: Yakima Mill Site / #1148007.010

**MATRIX SPIKE RESULTS**

**ALS Test Batch ID: R90781 - Soil**

Parent Sample: BATCH QC

SPIKED COMPOUND	METHOD	PARENT SAMPLE RESULT	SPIKE ADDED	RESULT	RPD	%REC	QUAL	ANALYSIS DATE	ANALYSIS BY
PCB-1016 - MS	EPA-8082	0	0.500	0.492		98.4		08/30/2013	LAP
PCB-1016 - MSD	EPA-8082	0	0.500	0.581	17	116		08/30/2013	LAP
PCB-1260 - MS	EPA-8082	0	0.500	0.472		94.5		08/30/2013	LAP
PCB-1260 - MSD	EPA-8082	0	0.500	0.553	16	111		08/30/2013	LAP

**ALS Test Batch ID: R90796 - Water**

Parent Sample: TP-MW-1

SPIKED COMPOUND	METHOD	PARENT SAMPLE RESULT	SPIKE ADDED	RESULT	RPD	%REC	QUAL	ANALYSIS DATE	ANALYSIS BY
Total Organic Carbon (TOC) - MS	SM5310C	1.3	25.0	26.5		101		08/30/2013	CAS

**ALS Test Batch ID: R90797 - Soil**

Parent Sample: BATCH QC

SPIKED COMPOUND	METHOD	PARENT SAMPLE RESULT	SPIKE ADDED	RESULT	RPD	%REC	QUAL	ANALYSIS DATE	ANALYSIS BY
Total Organic Carbon (TOC) - MS	ASTM D4129-05M	2.9	3.51	6.29		96.9		09/03/2013	CAS
Total Organic Carbon (TOC) - MSD	ASTM D4129-05M	2.9	3.51	6.13	3	92.3		09/03/2013	CAS



CERTIFICATE OF ANALYSIS

CLIENT: Landau Associates, Inc. DATE: 9/10/2013  
130 - 2nd Ave. S. ALS SDG#: EV13080134  
Edmonds, WA 98020 WDOE ACCREDITATION: C601  
CLIENT CONTACT: Jeffrey Fellows  
CLIENT PROJECT: Yakima Mill Site / #1148007.010

SAMPLE DUPLICATE RESULTS

ALS Test Batch ID: R90796 - Water by SM5310C

EV13080134-65DUP-R90796		PARENT SAMPLE RESULTS	DUP SAMPLE RESULTS	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
ANALYTE	METHOD						
Total Organic Carbon (TOC)	SM5310C	1.3	1.3	1		08/30/2013	CAS

EV13080134-68DUP-R90796		PARENT SAMPLE RESULTS	DUP SAMPLE RESULTS	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
ANALYTE	METHOD						
Total Organic Carbon (TOC)	SM5310C	3.5	3.5	0		08/30/2013	CAS

EV13080134-69DUP-R90796		PARENT SAMPLE RESULTS	DUP SAMPLE RESULTS	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
ANALYTE	METHOD						
Total Organic Carbon (TOC)	SM5310C	18	18	0		08/30/2013	CAS

EV13080134-70DUP-R90796		PARENT SAMPLE RESULTS	DUP SAMPLE RESULTS	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
ANALYTE	METHOD						
Total Organic Carbon (TOC)	SM5310C	17	18	6		08/30/2013	CAS

EV13080134-71DUP-R90796		PARENT SAMPLE RESULTS	DUP SAMPLE RESULTS	RPD	QUAL	ANALYSIS DATE	ANALYSIS BY
ANALYTE	METHOD						
Total Organic Carbon (TOC)	SM5310C	38	38	0		08/30/2013	CAS

APPROVED BY

Laboratory Director

# ALS ENVIRONMENTAL

## Sample Receiving Checklist

Client: Landau Associates ALS Job #: EV13080134

Project: Yakima Mill Site / #1148007.010

Received Date: 8/26/13 Received Time: 11:45 By: SM

Type of shipping container: Cooler  Box  Other

Shipped via: UPS/FedEx  US Postal Service  Courier  Hand Delivered  By Carl

	Yes	No	N/A
Were custody seals on outside of sample?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
If yes, how many? <u>1</u> Where? <u>outside each cooler</u>			
Custody seal date: <u>8/26/13</u> Seal name: <u>Landau</u>			
Was Chain of Custody properly filled out (ink, signed, dated, etc.)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Did all bottles have labels?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Did all bottle labels and tags agree with Chain of Custody?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Were samples received within hold time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Did all bottles arrive in good condition (unbroken, etc.)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Was sufficient amount of sample sent for the tests indicated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Was correct preservation added to samples?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If no, Sample Control added preservative to the following:

<u>Sample Number</u>	<u>Reagent</u>	<u>Analyte</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____

Were VOA vials checked for absence of air bubbles?     
Bubbles present in sample #: None

Temperature of cooler upon receipt: 2.4°C, 1.6°C, 2.5°C, Cold Cool Ambient N/A  
1.3°C, -0.1°C, 3.4°C all on ice

Explain any discrepancies: Sample #68 Coc & Bottles say TP-MW-2 @ 1700. Sample #69 Bottles say TP-MW-2 @ 0745 but Coc say FPP-MW-2 @ 0745.

Was client contacted? Yes Who was called? Jeffrey Fellows By whom? Shawn Date: 8/26/13

Outcome of call: Steve Shaw called. Will go by what's on Coc.



# Chain-of-Custody Record

EVI3080134

Date 8/26/13  
Page 1 of 25

Project Name		Project No.		Testing Parameters		Turnaround Time	
Yakima Mill Site		1148007.010		Archive NWPH-DX MCH-15* TDC PCRS		<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Accelerated	
Project Location/Event		Date		Matrix		Observations/Comments	
Yakima, WA							
Sampler's Name		Time		No. of Containers		Method of Shipment	
Steve Star, Matt Moraney						Received by <u>Pickup</u>	
Project Contact		Date		Matrix		Reinquired by	
Jeffrey Fellows						Signature _____ Printed Name _____ Company _____ Date _____ Time _____	
Send Results To		Date		Matrix		Reinquired by	
J. Fellows, Tim Symon, Anne Helmsen						Signature _____ Printed Name _____ Company _____ Date _____ Time _____	
Sample I.D.	Date	Time	Matrix	No. of Containers	Method of Shipment	Received by	Reinquired by
1 TP-MW-1-S(3.5-4.5)	8/19/13	1045	SOIL	1			
2 TP-MW-1-S(8.5-9.5)		1100					
3 TP-MW-1-S(13.5-14.5)		1110					
4 TP-MW-2-S(3.5-4.5)		1430					
5 TP-MW-2-S(9-10)		1440					
6 TP-MW-2-S(14-15)		1450					
7 FPP-MW-1-S(3.5-4.5)	8/20/13	0810					
8 FPP-MW-1-S(8.5-9)		0820					
9 FPP-MW-1-S(13.5-14.5)		0840					
10 FPP-MW-1-S(18.5-19)		0845					
11 FPP-MW-2-S(3.5-4.5)		1130					
12 FPP-MW-2-S(8.5-9.5)		1140					
13 FPP-MW-2-S(13.5-14.5)		1150					
14 FPP-MW-2-S(18.5-19.5)		1200					
15 FPP-MW-3-S(13.5-14.5)		1540					
16 FPP-MW-3-S(18.5-19)		1550					
17 FPP-B27-S(5-6)	8/4/13	0755					
18 FPP-B27-S(10-11)		0810					
Special Shipment/Handling or Storage Requirements		COOL + Ice				Method of Shipment	
						Received by	
Signature _____						Signature _____	
Printed Name <u>STEVEN D. SHAW</u>						Printed Name _____	
Company <u>LANDAU ASSOCIATES</u>						Company _____	
Date <u>8/26/13</u> Time <u>0800</u>						Date _____ Time _____	

Observations/Comments:  
 X Allow water samples to settle, collect aliquot from clear portion  
 X NWPH-DX - run acid wash/silica gel cleanup  
 run samples standardized to \_\_\_\_\_ product  
 Analyze for EPH if no specific product identified  
 VOC/BTEX/VPH (soil):  
 non-preserved \_\_\_\_\_  
 preserved w/methanol \_\_\_\_\_  
 preserved w/sodium bisulfate \_\_\_\_\_  
 Freeze upon receipt \_\_\_\_\_  
 Dissolved metal water samples field filtered  
 Other: \*As, Cd, Cr, Pb, Hg, Fe, Mn.  
 Added: 8/26/13 STD NAT SW

Seattle/Edmonds (425) 778-0907  
 Tacoma (253) 926-2493  
 Spokane (509) 327-9737  
 Portland (503) 542-1080

EV13080134

Date 8/26/13  
 Page 2 of 45



# Chain-of-Custody Record

Project Name Yakima Mill Site Project No. 1148007.010  
 Project Location/Event Yakima, WA  
 Sampler's Name Steve Shaw, Matt Moroney  
 Project Contact Jeffrey Fellows  
 Send Results To J. Fellows, Tim Spitzer, Anne H. Wozniak

Sample I.D.	Date	Time	Matrix	No. of Containers	Testing Parameters					Observations/Comments	Turnaround Time <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Accelerated <input type="checkbox"/>	
					Archive	NWTPH-Dx	Mtals	TOC	PCBS			HCID
19 FPP-B27-S(15-5-16)	8/21/13	0825	50/L	1	X	X	X	X	X	X		
20 FPP-B26-S(5-6)		0915			X	X	X	X	X	X		
21 FPP-B26-S(10-11)		0930			X	X	X	X	X	X		
22 FPP-B26-S(15-16)		0945			X	X	X	X	X	X		
23 FPP-B26-S(18-19)		1000			X	X	X	X	X	X		
24 FPP-B25-S(5-6)		1210			X	X	X	X	X	X		
25 FPP-B25-S(10-11)		1230			X	X	X	X	X	X		
26 FPP-B25-S(15-16)		1330			X	X	X	X	X	X		
27 FPP-B25-S(18-19)		1340			X	X	X	X	X	X		
28 FPP-B30-S(5-6)	8/24/13	0850			X	X	X	X	X	X		
29 FPP-B30-S(10-11)		0900			X	X	X	X	X	X		
30 FPP-B30-S(14-15)		0930			X	X	X	X	X	X		
31 FPP-B34-S(5-6)		1025			X	X	X	X	X	X		
32 FPP-B34-S(10-11)		1035			X	X	X	X	X	X		
33 FPP-B34-S(15-16)		1050			X	X	X	X	X	X		
34 FPP-B33-S(5-6)		1245			X	X	X	X	X	X		
35 FPP-B33-S(10-11)		1255			X	X	X	X	X	X		
36 FPP-B33-S(15-16)		1305			X	X	X	X	X	X		

Observations/Comments:  
 X Allow water samples to settle, collect aliquot from clear portion  
 X NWTPH-Dx - run acid wash/silica gel cleanup  
 run samples standardized to \_\_\_\_\_ product  
 Analyze for EPH if no specific product identified  
 VOC/BTEX/VPH (soil):  
 non-preserved \_\_\_\_\_  
 preserved w/methanol \_\_\_\_\_  
 preserved w/sodium bisulfate \_\_\_\_\_  
 Freeze upon receipt \_\_\_\_\_  
 Dissolved metal water samples field filtered  
 Other \* As, Cd, Cu, Pb, Hs, Fe, Mn  
Added 8/26/13 STD TAT. SN

Method of Shipment Pickup  
**Relinquished by**  
 Signature \_\_\_\_\_  
 Printed Name \_\_\_\_\_  
 Company \_\_\_\_\_  
 Date \_\_\_\_\_ Time \_\_\_\_\_  
**Received by**  
 Signature \_\_\_\_\_  
 Printed Name \_\_\_\_\_  
 Company \_\_\_\_\_  
 Date \_\_\_\_\_ Time \_\_\_\_\_

Special Shipment/Handling or Storage Requirements cool + ice  
**Relinquished by**  
 Signature Shawn Robinson  
 Printed Name Shawn Robinson  
 Company ALS  
 Date 8/26/13 Time 11:45

**Received by**  
 Signature \_\_\_\_\_  
 Printed Name \_\_\_\_\_  
 Company \_\_\_\_\_  
 Date 8/26/13 Time 0800

Seattle/Edmonds (425) 778-0907  
 Tacoma (253) 926-2493  
 Spokane (509) 327-9737  
 Portland (503) 542-1080



EVI3080134

Date 8/26/13  
Page 3 of 5

# Chain-of-Custody Record

Project Name Yakima Hill Site Project No. 1148007-010  
 Project Location/Event Yakims, WA  
 Sampler's Name Steve Shaw, Matt Moroney  
 Project Contact Jeffrey Fellows  
 Send Results To J. Fellows, Tina Synner, Anne Helwson

Sample I.D.	Date	Time	Matrix	No. of Containers	Testing Parameters		Observations/Comments	Turnaround Time <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Accelerated
					Archives	NWTPH-Dx		
37 FPP-B31-5(5-6)	8/22/13	1430	Soil	1	X			
38 FPP-B31-5(10-11)		1440			X			
39 FPP-B31-5(15-16)		1450			X			
40 FPP-B31-5(19-20)		1500			X			
41 FPP-B29a-5(2-3)		1620			X			
42 FPP-B29a-5(5-6)		1630			X			
43 FPP-B29a-5(10-11)		1650			X			
44 FPP-B29a-5(15-16)		1700			X			
45 FPP-B29a-5(24-25)		1730		2	X	X		
46 FPP-B32-5(10-11)	8/22/13	1130		1	X			
47 FPP-B32-5(5-6)		1120			X			
48 FPP-B32-5(15-16)		1140			X			
49 FPP-B32-5(17-18)		1145			X			
50 FPP-B28-5(5-6)	8/23/13	1015			X			
51 FPP-B28-5(10-11)		1020			X			
52 FPP-B28-5(15-16)		1025			X			
53 FPP-B28-5(18-19)		1030			X			
54 FPP-B29b-5(5-6)		1200			X			

Observations/Comments  
 X Allow water samples to settle, collect aliquot from clear portion  
 X NWTPH-Dx - run acid wash/silica gel cleanup  
 run samples standardized to \_\_\_\_\_ product  
 Analyze for EPH if no specific product identified  
 VOC/BTEX/VPH (soil):  
 non-preserved  
 preserved w/methanol  
 preserved w/sodium bisulfate  
 Freeze upon receipt  
 Dissolved metal water samples field filtered  
 Other ~~As, Cd, Cr, Pb, Hg, Fe, Mn~~  
 Added 8/26/13 SKI MAT SN

Method of Shipment Pickup  
**Relinquished by**  
 Signature \_\_\_\_\_  
 Printed Name \_\_\_\_\_  
 Company \_\_\_\_\_  
 Date \_\_\_\_\_ Time \_\_\_\_\_  
**Received by**  
 Signature \_\_\_\_\_  
 Printed Name \_\_\_\_\_  
 Company \_\_\_\_\_  
 Date \_\_\_\_\_ Time \_\_\_\_\_

**Relinquished by**  
 Signature \_\_\_\_\_  
 Printed Name \_\_\_\_\_  
 Company \_\_\_\_\_  
 Date \_\_\_\_\_ Time \_\_\_\_\_  
**Received by**  
 Signature \_\_\_\_\_  
 Printed Name \_\_\_\_\_  
 Company \_\_\_\_\_  
 Date \_\_\_\_\_ Time \_\_\_\_\_

**Relinquished by**  
 Signature \_\_\_\_\_  
 Printed Name \_\_\_\_\_  
 Company \_\_\_\_\_  
 Date 8/26/13 Time 11:45  
**Received by**  
 Signature Shawn Robinson  
 Printed Name Shawn Robinson  
 Company ALS  
 Date 8/26/13 Time 11:45

**Relinquished by**  
 Signature \_\_\_\_\_  
 Printed Name \_\_\_\_\_  
 Company \_\_\_\_\_  
 Date 8/26/13 Time 0800  
**Received by**  
 Signature \_\_\_\_\_  
 Printed Name \_\_\_\_\_  
 Company \_\_\_\_\_  
 Date \_\_\_\_\_ Time \_\_\_\_\_

Special Shipment/Handling or Storage Requirements cool to 1cc

Seattle/Edmonds (425) 778-0907  
 Tacoma (253) 926-2493  
 Spokane (509) 327-9737  
 Portland (503) 542-1080



EV13080134

Date 8/26/13  
 Page 4 of 85

# Chain-of-Custody Record

Project Name Yakima Mill Site Project No. 1148007010  
 Project Location/Event Yakima, WA  
 Sampler's Name Steve Sime, Matt Moroney  
 Project Contact Jeffrey Fellows  
 Send Results To J. Fellows, Tim Spitzer, Anne Helmer

Sample I.D.	Date	Time	Matrix	No. of Containers	Testing Parameters				Observations/Comments
					Delta	NWPH-Dx	Metals	TOC	
FPP-B296-S(10-11)	8/23/10	1210	SOL	1	X	X	X	X	Turnaround Time <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Accelerated  Allow water samples to settle, collect aliquot from clear portion <input checked="" type="checkbox"/> NWTPH-Dx - run acid wash/silica gel cleanup  run samples standardized to _____ product Analyze for EPH if no specific product identified VOC/BTEX/VPH (soil): <input type="checkbox"/> non-preserved <input type="checkbox"/> preserved w/methanol <input type="checkbox"/> preserved w/sodium bisulfate <input type="checkbox"/> Freeze upon receipt  Dissolved metal water samples field filtered Other <u>* Ar, Cd, Cr, Pb, Hg, Fe, Mn</u> <input checked="" type="checkbox"/> Added: <u>8/26/13. Std THH SR</u>
FPP-B296-S(15-16)	1215				X	X	X	X	
FPP-B296-S(18-19)	1220				X	X	X	X	
FPP-B296-S(5-6)	1330				X	X	X	X	
FPP-B296-S(10-11)	1340				X	X	X	X	
FPP-B296-S(15-16)	1350				X	X	X	X	
FPP-B296-S(19-20)	1400				X	X	X	X	
Special Shipment/Handling or Storage Requirements	<u>cool + ice</u>				Method of Shipment				
<b>Relinquished by</b> Signature <u>[Signature]</u> Printed Name <u>STEVEN D. SIME</u> Company <u>LANDAU ASSOC.</u> Date <u>8/26/13</u> Time <u>0800</u>					<b>Received by</b> Signature <u>[Signature]</u> Printed Name <u>Shawn Robinson</u> Company <u>ALS</u> Date <u>8/26/13</u> Time <u>11:45</u>				
<b>Relinquished by</b> Signature _____ Printed Name _____ Company _____ Date _____ Time _____					<b>Received by</b> Signature _____ Printed Name _____ Company _____ Date _____ Time _____				

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Seattle/Edmonds (425) 778-0907  
 Tacoma (253) 926-2498  
 Spokane (509) 327-9737  
 Portland (503) 542-1080



# Chain-of-Custody Record

AV13080134

Date 8/26/13  
Page 5 of 5

Sample I.D.	Date	Time	Matrix	No. of Containers	Testing Parameters	Observations/Comments	Turnaround Time	
FPP-B27-GW(16)	8/21/13	0930	WATER	3	NMNH +a-HALMN VOCs SVOCs Metals* Pb	X Allow water samples to settle, collect aliquot from clear portion X NWTPH-Dx - run acid wash/silica gel cleanup	<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Accelerated	
FPP-B26-GW(19.5)	I	1145		3				
FPP-B25-GW(18.5)	I	1415		3				
TP-MW-1	8/22/13	1259		9				
FPP-B31-GW(19)	I	1300		3				
FPP-B33-GW(19)	I	1530		3				
TP-MW-2	I	1700		9				
FPP-MW-2	8/23/13	0745		9				
FPP-MW-3	I	0900		9				
FPP-MW-1	I	1045		10				
FPP-B28-GW(19)	I	1130		3				
FPP-B296-GW(19)	I	1310		3				
TRIP BLANKS	I			3				
Special Shipment/Handling or Storage Requirements					Method of Shipment			
cool + ice					Pickup			
Relinquished by			Relinquished by			Received by		
Signature: <i>Shawn Robinson</i>			Signature: _____			Signature: _____		
Printed Name: Shawn Robinson			Printed Name: _____			Printed Name: _____		
Company: ALS			Company: _____			Company: _____		
Date: 8/26/13			Date: 8/26/13			Date: 8/26/13		
Time: 11:45			Time: 11:45			Time: _____		

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August 29, 2013

Analytical Report for Service Request No: K1308586

Rick Bagan  
ALS Environmental  
8620 Holly Drive #100  
Everett, WA 98208

**RE: Yakima Mill Site/1148007.010**

Dear Rick:

Enclosed are the results of the samples submitted to our laboratory on August 22, 2013. For your reference, these analyses have been assigned our service request number K1308586.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at [www.alsglobal.com](http://www.alsglobal.com). All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3364. You may also contact me via Email at [Howard.Holmes@alsglobal.com](mailto:Howard.Holmes@alsglobal.com).

Respectfully submitted,

**ALS Group USA Corp. dba ALS Environmental**

Howard Holmes  
Project Manager

HH/ln

Page 1 of 14

## Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

### Inorganic Data Qualifiers

- \* The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.  
*DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.
- H The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

### Metals Data Qualifiers

- # The control limit criteria is not applicable. See case narrative.
- J The result is an estimated value.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.  
*DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.
- Q See case narrative. One or more quality control criteria was outside the limits.

### Organic Data Qualifiers

- \* The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimated value.
- J The result is an estimated value.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.  
*DOD-QSM 4.2 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

### Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

**ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso  
State Certifications, Accreditations, and Licenses**

<b>Agency</b>	<b>Web Site</b>	<b>Number</b>
Alaska DEC UST	<a href="http://dec.alaska.gov/applications/eh/ehllabreports/USTLabs.aspx">http://dec.alaska.gov/applications/eh/ehllabreports/USTLabs.aspx</a>	UST-040
Arizona DHS	<a href="http://www.azdhs.gov/lab/license/env.htm">http://www.azdhs.gov/lab/license/env.htm</a>	AZ0339
Arkansas - DEQ	<a href="http://www.adeq.state.ar.us/techsvs/labcert.htm">http://www.adeq.state.ar.us/techsvs/labcert.htm</a>	88-0637
California DHS (ELAP)	<a href="http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx">http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx</a>	2286
DOD ELAP	<a href="http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm">http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm</a>	L12-28
Florida DOH	<a href="http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm">http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm</a>	E87412
Georgia DNR	<a href="http://www.gaepd.org/Documents/techguide_pcb.html#cel">http://www.gaepd.org/Documents/techguide_pcb.html#cel</a>	881
Hawaii DOH	Not available	-
Idaho DHW	<a href="http://www.healthandwelfare.idaho.gov/Health/Labs/CertificationDrinkingWaterLabs/tabid/1833/Default.aspx">http://www.healthandwelfare.idaho.gov/Health/Labs/CertificationDrinkingWaterLabs/tabid/1833/Default.aspx</a>	-
Indiana DOH	<a href="http://www.in.gov/isdh/24859.htm">http://www.in.gov/isdh/24859.htm</a>	C-WA-01
ISO 17025	<a href="http://www.pjlabs.com/">http://www.pjlabs.com/</a>	L12-27
Louisiana DEQ	<a href="http://www.deq.louisiana.gov/portal/DIVISIONS/PublicParticipationandPermitSupport/LouisianaLaboratoryAccreditationProgram.aspx">http://www.deq.louisiana.gov/portal/DIVISIONS/PublicParticipationandPermitSupport/LouisianaLaboratoryAccreditationProgram.aspx</a>	3016
Maine DHS	Not available	WA0035
Michigan DEQ	<a href="http://www.michigan.gov/deq/0,1607,7-135-3307_4131_4156---,00.html">http://www.michigan.gov/deq/0,1607,7-135-3307_4131_4156---,00.html</a>	9949
Minnesota DOH	<a href="http://www.health.state.mn.us/accreditation">http://www.health.state.mn.us/accreditation</a>	053-999-368
Montana DPHHS	<a href="http://www.dphhs.mt.gov/publichealth/">http://www.dphhs.mt.gov/publichealth/</a>	CERT0047
Nevada DEP	<a href="http://ndep.nv.gov/bsdw/labservice.htm">http://ndep.nv.gov/bsdw/labservice.htm</a>	WA35
New Jersey DEP	<a href="http://www.nj.gov/dep/oqa/">http://www.nj.gov/dep/oqa/</a>	WA005
North Carolina DWQ	<a href="http://www.dwqlab.org/">http://www.dwqlab.org/</a>	605
Oklahoma DEQ	<a href="http://www.deq.state.ok.us/CSDnew/labcert.htm">http://www.deq.state.ok.us/CSDnew/labcert.htm</a>	9801
Oregon – DEQ (NELAP)	<a href="http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx">http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx</a>	WA200001
South Carolina DHEC	<a href="http://www.scdhec.gov/environment/envserv/">http://www.scdhec.gov/environment/envserv/</a>	61002
Texas CEQ	<a href="http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html">http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html</a>	704427-08-TX
Washington DOE	<a href="http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html">http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html</a>	C1203
Wisconsin DNR	<a href="http://dnr.wi.gov/">http://dnr.wi.gov/</a>	998386840
Wyoming (EPA Region 8)	<a href="http://www.epa.gov/region8/water/dwhome/wyomingdi.html">http://www.epa.gov/region8/water/dwhome/wyomingdi.html</a>	-
Kelso Laboratory Website	<a href="http://www.alsglobal.com">www.alsglobal.com</a>	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at [www.caslab.com](http://www.caslab.com) or at the accreditation bodies web site

Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/analyte is offered by that state.



LANDAU ASSOCIATES

- Seattle/Edmonds (425) 778-0907
- Tacoma (253) 926-2493
- Spokane (509) 327-9737
- Portland (503) 542-1080

# Chain-of-Custody Record

11308586

Date 8/21/13

Page 1 of 1

Project Name Yekine Hill Site Project No. 1198003.010

Project Location/Event Yekine, WA

Sampler's Name Steve Siew & Mark Housney

Project Contact Jeffrey Felber, Tim Swanson

Send Results To J. Felber, T. Swanson & Anne Housney

Sample I.D.	Date	Time	Matrix	Containers	No. of Containers	Testing Parameters	Observations/Comments
Wood-1-(1-6)	8/21/13	14:30	Wood	1	2		
Wood-1-(6-11)	8/21/13	14:40	Wood	1	1		

Turnaround Time  
 Standard  
 Accelerated

Observations/Comments  
 X Allow water samples to settle, collect aliquot from clear portion  
 X NWT-PH-Dx - run acid wash/silica gel cleanup  
 run samples standardized to \_\_\_\_\_ product  
 Analyze for EPH if no specific product identified  
 VOC/BTEX/VPH (soil):  
 non-preserved  
 preserved w/methanol  
 preserved w/sodium bisulfate  
 Freeze upon receipt  
 Dissolved metal water samples field filtered  
 Other \_\_\_\_\_

Special Shipment/Handling or Storage Requirements

Relinquished by  
 Signature \_\_\_\_\_  
 Printed Name MATT MORONEY  
 Company LANDAU ASSOCIATES  
 Date 8/21/13 Time 1520

Received by  
 Signature \_\_\_\_\_  
 Printed Name ACS-LECLISD  
 Company \_\_\_\_\_  
 Date 8/21/13 Time 1010

Relinquished by  
 Signature \_\_\_\_\_  
 Printed Name \_\_\_\_\_  
 Company \_\_\_\_\_  
 Date \_\_\_\_\_ Time \_\_\_\_\_

Method of Shipment  
 Received by Felix Overmyer  
 Signature \_\_\_\_\_  
 Printed Name \_\_\_\_\_  
 Company \_\_\_\_\_  
 Date \_\_\_\_\_ Time \_\_\_\_\_



PC H2

### Cooler Receipt and Preservation Form

Client / Project: Landrau Associates Service Request K13 08586

Received: Aug. 22, 13 Opened: Aug 22, 13 By: SD Unloaded: Aug 22, 13 By: SD

- 1. Samples were received via? Mail  Fed Ex  UPS  DHL  PDX  Courier  Hand Delivered
- 2. Samples were received in: (circle) Cooler  Box  Envelope  Other \_\_\_\_\_ NA
- 3. Were custody seals on coolers?  NA  Y  N If yes, how many and where? \_\_\_\_\_
- If present, were custody seals intact?  Y  N If present, were they signed and dated?  Y  N

Raw Cooler Temp	Corrected Cooler Temp	Raw Temp Blank	Corrected Temp Blank	Corr. Factor	Thermometer ID	Cooler/COC ID	Tracking Number	NA	Filed
<u>WIM</u>						<u>NA</u>	<u>803448600 0952</u>	<u>NA</u>	

- 4. Packing material: Inserts  Baggies  Bubble Wrap  Gel Packs  Wet Ice  Dry Ice  Sleeves \_\_\_\_\_
- 5. Were custody papers properly filled out (ink, signed, etc.)? NA  Y  N
- 6. Did all bottles arrive in good condition (unbroken)? *Indicate in the table below.* NA  Y  N
- 7. Were all sample labels complete (i.e analysis, preservation, etc.)? NA  Y  N
- 8. Did all sample labels and tags agree with custody papers? *Indicate major discrepancies in the table on page 2.* NA  Y  N
- 9. Were appropriate bottles/containers and volumes received for the tests indicated? NA  Y  N
- 10. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below*  NA  Y  N
- 11. Were VOA vials received without headspace? *Indicate in the table below.*  NA  Y  N
- 12. Was C12/Res negative?  NA  Y  N

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count	Bottle Type	Out of Temp	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, & Resolutions: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** ALS Environmental - US  
**Project:** Yakima Mill Site/1148007.010  
**Sample Matrix:** Misc. Solid  
**Analysis Method:** ASTM D2015

**Service Request:** K1308586  
**Date Collected:** 08/21/13  
**Date Received:** 08/22/13

**Units:** BTU/lb  
**Basis:** Dry, per Method

High Heat Value

<b>Sample Name</b>	<b>Lab Code</b>	<b>Result</b>	<b>MRL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Q</b>
Wood-1-(1-6)	K1308586-001	<b>5360</b>	50	1	08/26/13 12:30	
Wood-1-(6-11)	K1308586-002	<b>4340</b>	50	1	08/26/13 12:30	

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** ALS Environmental - US  
**Project:** Yakima Mill Site/1148007.010  
**Sample Matrix:** Misc. Solid

**Service Request:** K1308586  
**Date Collected:** 08/21/13  
**Date Received:** 08/22/13  
**Date Analyzed:** 08/26/13

**Replicate Sample Summary**  
**General Chemistry Parameters**

**Sample Name:** Wood-1-(1-6)  
**Lab Code:** K1308586-001

**Units:** BTU/lb  
**Basis:** Dry, per Method

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>MRL</u>	<u>Sample Result</u>	<u>Duplicate Sample K1308586-001DUP Result</u>	<u>Average</u>	<u>RPD</u>	<u>RPD Limit</u>
High Heat Value	ASTM D2015	50	5360	4420	4890	19	20

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.



ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** ALS Environmental - US  
**Project:** Yakima Mill Site/1148007.010  
**Sample Matrix:** Misc. Solid

**Service Request:** K1308586  
**Date Analyzed:** 08/26/13

**Lab Control Sample Summary**  
**High Heat Value**

**Analysis Method:** ASTM D2015

**Units:** BTU/lb  
**Basis:** Dry, per Method  
**Analysis Lot:** 356076

<b>Sample Name</b>	<b>Lab Code</b>	<b>Result</b>	<b>Spike Amount</b>	<b>% Rec</b>	<b>% Rec Limits</b>
Lab Control Sample	K1308586-LCS	14000	14500	97	85-115

ALS Group USA, Corp.  
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- Cover Page -

INORGANIC ANALYSIS DATA PACKAGE

Service Request : K1308586

Client : ALS Environmental - US  
Project Name : Yakima Mill Site  
Project No. : 1148007.010

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Sample Name :

Lab Code :

Wood-1-(1-6)	K1308586-001
Wood-1-(1-6)	K1308586-001S
Wood-1-(6-11)	K1308586-002
Method Blank	K1308586-MB

Comments:

**ALS Group USA, Corp.**  
**dba ALS Environmental**  
**Analytical Report**

**Client :** ALS Environmental - US  
**Project Name :** Yakima Mill Site  
**Project Number :** 1148007.010  
**Matrix :** Solid

**Service Request :** K1308586  
**Date Collected :** 08/21/13  
**Date Received :** 08/22/13  
**Date TCLP Performed :** 08/27/13  
**Date Extracted :** 08/28/13  
**Date Analyzed :** 08/28/13

Toxicity Characteristic Leaching Procedure (TCLP)  
 EPA Method 1311  
 Metals  
 Units: mg/L (ppm) in TCLP Extract

**Sample Name :** Wood-1-(1-6)  
**Lab Code :** K1308586-001

<b>Analyte</b>	<b>EPA Method</b>	<b>MRL</b>	<b>Regulatory Limit *</b>	<b>Sample Result</b>	<b>Result Notes</b>
Arsenic	3010A/6010C	0.1	5	ND	
Barium	3010A/6010C	1.0	100	ND	
Cadmium	3010A/6010C	0.05	1	ND	
Chromium	3010A/6010C	0.05	5	ND	
Lead	3010A/6010C	0.05	5	ND	
Mercury	7470A	0.001	0.2	ND	
Selenium	3010A/6010C	0.1	1	ND	
Silver	3010A/6010C	0.1	5	ND	

\* From 40 CFR Part 261, et al., and Federal Register, March 29, 1990 and June 29, 1990.

**ALS Group USA, Corp.**  
**dba ALS Environmental**  
**Analytical Report**

**Client :** ALS Environmental - US  
**Project Name :** Yakima Mill Site  
**Project Number :** 1148007.010  
**Matrix :** Solid

**Service Request :** K1308586  
**Date Collected :** 08/21/13  
**Date Received :** 08/22/13  
**Date TCLP Performed :** 08/27/13  
**Date Extracted :** 08/28/13  
**Date Analyzed :** 08/28/13

Toxicity Characteristic Leaching Procedure (TCLP)  
EPA Method 1311  
Metals  
Units: mg/L (ppm) in TCLP Extract

**Sample Name :** Wood-1-(6-11)  
**Lab Code :** K1308586-002

<b>Analyte</b>	<b>EPA Method</b>	<b>MRL</b>	<b>Regulatory Limit *</b>	<b>Sample Result</b>	<b>Result Notes</b>
Arsenic	3010A/6010C	0.1	5	ND	
Barium	3010A/6010C	1.0	100	ND	
Cadmium	3010A/6010C	0.05	1	ND	
Chromium	3010A/6010C	0.05	5	ND	
Lead	3010A/6010C	0.05	5	ND	
Mercury	7470A	0.001	0.2	ND	
Selenium	3010A/6010C	0.1	1	ND	
Silver	3010A/6010C	0.1	5	ND	

\* From 40 CFR Part 261, et al., and Federal Register, March 29, 1990 and June 29, 1990.

**ALS Group USA, Corp.**  
**dba ALS Environmental**  
**Analytical Report**

**Client :** ALS Environmental - US  
**Project Name :** Yakima Mill Site  
**Project Number :** 1148007.010  
**Matrix :** Solid

**Service Request :** K1308586  
**Date Collected :** NA  
**Date Received :** NA  
**Date TCLP Performed :** 08/27/13  
**Date Extracted :** 08/28/13  
**Date Analyzed :** 08/28/13

Toxicity Characteristic Leaching Procedure (TCLP)  
 EPA Method 1311  
 Metals  
 Units: mg/L (ppm) in TCLP Extract

**Sample Name :** Method Blank  
**Lab Code :** K1308586-MB

<b>Analyte</b>	<b>EPA Method</b>	<b>MRL</b>	<b>Regulatory Limit *</b>	<b>Sample Result</b>	<b>Result Notes</b>
Arsenic	3010A/6010C	0.1	5	ND	
Barium	3010A/6010C	1.0	100	ND	
Cadmium	3010A/6010C	0.05	1	ND	
Chromium	3010A/6010C	0.05	5	ND	
Lead	3010A/6010C	0.05	5	ND	
Mercury	7470A	0.001	0.2	ND	
Selenium	3010A/6010C	0.1	1	ND	
Silver	3010A/6010C	0.1	5	ND	

\* From 40 CFR Part 261, et al., and Federal Register, March 29, 1990 and June 29, 1990.

**ALS Group USA, Corp.**  
**dba ALS Environmental**  
**QA/QC Report**

**Client :** ALS Environmental - US  
**Project Name :** Yakima Mill Site  
**Project Number :** 1148007.010  
**Matrix :** Solid

**Service Request :** K1308586  
**Date Collected :** 08/21/13  
**Date Received :** 08/22/13  
**Date TCLP Performed :** 08/27/13  
**Date Extracted :** 08/28/13  
**Date Analyzed :** 08/28/13

Matrix Spike Summary  
 Toxicity Characteristic Leaching Procedure (TCLP)  
 EPA Method 1311  
 Metals  
 Units: mg/L (ppm) in TCLP Extract

**Sample Name :** Wood-1-(1-6)  
**Lab Code :** K1308586-001S

<b>Analyte</b>	<b>Spike Level</b>	<b>Sample Result</b>	<b>Spiked Sample Result</b>	<b>Percent Recovery*</b>	<b>Result Notes</b>
Arsenic	5.00	ND	4.8	96	
Barium	10.0	ND	10.3	103	
Cadmium	1.00	ND	0.96	96	
Chromium	5.00	ND	4.88	98	
Lead	5.00	ND	4.68	94	
Mercury	0.0050	ND	0.005	100	
Selenium	1.00	ND	1.0	100	
Silver	1.00	ND	0.9	90	

\* From 40 CFR Part 261, et al., and Federal Register, March 29, 1990 and June 29, 1990.