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January 9, 2012

Ms. Kimberly Tisa
PCB Coordinator
U.S. Environmental Protection Agency Region 1
5 Post Office Square – Suite 100
Boston, Massachusetts 02109-3912

Re: Final Completion Report
Anderson and Upton Halls
University of Southern Maine, Gorham, Maine

Dear Ms. Tisa:

On behalf of the University of Southern Maine (USM), Woodard & Curran has prepared this Final Completion Report to comply with U.S. Environmental Protection Agency (EPA) requirements under 40 CFR 761 and in accordance with EPA's June 29, 2011 PCB Cleanup and Disposal Approval under 40 CFR 761.61(a) and (c) and 761.79(h). This Report includes a narrative of the PCB remediation activities, laboratory analytical data, and copies of waste shipment records generated in association with the work completed at Anderson and Upton Halls at the USM campus in Gorham, Maine.

If you have any comments, questions, or require further information, please do not hesitate to e-mail or call me at the number listed above.

Sincerely,

WOODARD & CURRAN INC.

Jeffrey Hamel, LSP, LEP
Senior Vice President

Project Number 224164

Enclosure(s)

cc: Michael Sauda, University of Maine System
Carol Potter, USM

FINAL COMPLETION REPORT

University of Southern Maine

Anderson & Upton Halls

Gorham, Maine

Project No. 224164

USM Gorham

January 2012

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COMMITMENT & INTEGRITY DRIVE RESULTS

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1. INTRODUCTION

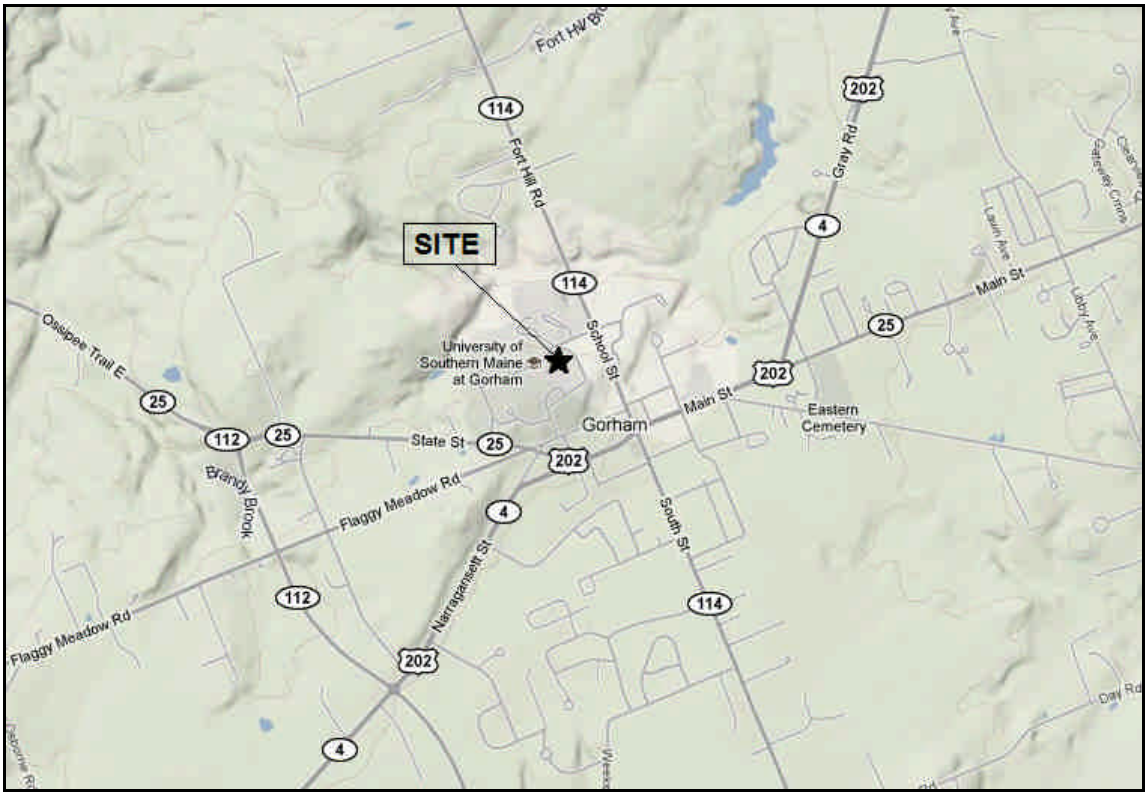
Woodard & Curran, Inc. (W&C) has prepared this Final Completion Report on behalf of the University of Southern Maine (USM). The remediation of polychlorinated biphenyls (PCBs) at Anderson Hall and Upton Hall, both located on the USM campus in Gorham, Maine (the site) has been completed in accordance with the Notification[1] and the U.S. Environmental Protection Agency's (EPA) June 29, 2011 PCB Cleanup and Disposal Approval granted under 40 CFR 761.61(a) and (c) and 761.79(h) (the Approval). The Approval has been included as Appendix A to this Report.

This Report documents the PCB remediation activities completed at the Site between May and October 2011.

1.1 SITE DESCRIPTION

The two buildings subject to the remediation and renovation work described herein are located at 40 Campus Ave (Anderson Hall) and 52 University Way (Upton Hall) at the center of the USM campus in Gorham. Both buildings are used primarily as residence halls for undergraduate students. The buildings were originally constructed in 1958 (Upton Hall) and 1962 (Anderson Hall), and are constructed mainly of brick masonry on concrete foundations. Surrounding ground surfaces are flat to gently sloped and consist of asphalt walkways or grass-covered soils. A Site Locus Map of the surrounding area is provided as Figure 1-1 below.

Figure 1-1: Site Locus Map



[1] Information was prepared by W&C on behalf of USM to satisfy the requirements under 40 CFR 761.61(a) and (c) and 761.79(h). Information was submitted March 18, 2011 (PCB Remediation Plan) and June 8, 2011 (Response to EPA Comments). These submittals, together, form the "Notification."

1.2 SITE BACKGROUND

Anderson and Upton Halls were constructed during a time period when PCBs were used in certain building materials (i.e., caulking). During the planning phases of the renovation project, caulking was observed to be present within certain joints associated with the windows scheduled for replacement. Given the potential for this caulking to contain PCBs (due the original construction dates) and the knowledge that it would be disturbed during the work, caulking materials present at the Site were inspected and inventoried, and representative samples were collected for PCB analysis.

Analytical results indicated that certain caulking materials contained PCBs above 50 parts per million (ppm) with concentrations ranging up to 93,900 ppm at Anderson Hall, and up to 74,300 ppm at Upton Hall. Adjacent building materials were sampled to determine whether PCBs had migrated from the caulking into these adjacent materials, and the characterization data confirmed that detectable concentrations of PCBs were present in certain adjacent materials at regulated concentrations (up to 149 ppm in adjacent concrete). After completing the characterization of PCB-containing materials at the Site, these results were used to develop a remedial strategy that was incorporated into the overall renovation project plans as presented in the Notification.

1.3 PROJECT TEAM

The remediation project team consisted of the following parties:

- University of Maine System – Owner (acting through University of Southern Maine);
- Woodard & Curran – Environmental Consultant (PCB remediation);
- Harriman Architects & Engineers (Harriman) – Project Architect;
- Architectural Doors & Windows (AD&W) – General Contractor;
- Portland Diversified Services (PDS) – Remediation Subcontractor (caulking removal and encapsulation coatings); and
- Clean Harbors, Inc. – Remediation Subcontractor (waste transport).

2. REMEDY IMPLEMENTATION

This section describes the PCB cleanup and disposal activities conducted with regard to PCB-containing building materials in support of an exposure pathway elimination approach consistent with the conditions of the Approval. Accordingly, these materials are depicted on site drawings that identify sampling locations and remediation areas to provide a cross-reference to data summary tables and the text discussion.

2.1 REMEDY OVERVIEW

The remedial approach consisted of the following activities:

- Removal of PCB-containing materials for off-site disposal, including exterior caulking and windows; and
- Encapsulation of PCB-impacted building materials scheduled to remain in place, including certain brick, concrete, and metal surfaces.

In general, the overall project schedule required the installation of new windows as soon as possible after removal of the old windows in order to minimize the amount of time that portions of the building would be left open. As a result, this schedule typically required working assumptions to be made with regards to surface encapsulation requirements prior to receiving verification data collected from surfaces that would be left in place. If this data was not available before new windows required installation, encapsulation coatings were applied to those surfaces left in place that would subsequently be covered by the new window components, and the verification data was ultimately used to determine whether the encapsulated surfaces would be carried forward to the long-term monitoring phase (i.e., if bulk results were reported with PCBs > 1 ppm).

Drawings depicting the sample locations and encapsulated areas described in this section are provided as Figure 2-1 (Anderson Hall Encapsulated Surfaces) and Figure 2-2 (Upton Hall Encapsulated Surfaces), located at the end of this document. Tables presenting the verification data are provided as Table 2-1 (Anderson Hall Verification Data Summary) and Table 2-2 (Upton Hall Verification Data Summary).

2.1.1 Notifications and Controls

Prior to initiating the remedial activities, notifications and controls were implemented as described in Section 3.1 of the PCB Remediation Plan. These preparations included the submittal of a notification and certifications to EPA, the establishment of site access controls, setting up work zone barriers and poly sheeting around work areas, and the protection of adjacent ground surfaces.

2.1.2 Sampling & Analytical Methods

Verification samples collected in support of the remediation activities described herein were collected in accordance with generally accepted procedures for environmental sampling. Concrete sampling was conducted consistent with the EPA Region I Standard Operating Procedure for Sampling Porous Surfaces for PCBs (Revision 4, May 2011). Surface wipe samples were collected using hexane-saturated gauze wipes in accordance with the standard wipe test method under 40 CFR 761.123.

Samples were transferred on ice to Analytics Environmental Laboratory of Portsmouth, New Hampshire under standard chain of custody procedures. Samples were extracted using USEPA Method 3540C (Soxhlet extraction) and analyzed for PCBs using USEPA Method 8082. Electronic versions of the laboratory analytical packages for the data presented in this section are provided in Appendix B.

2.2 ANDERSON HALL

Work was performed at the first floor of Anderson Hall between May 26, 2011 and October 10, 2011. In general, this included the removal and off-site disposal of PCB caulking and windows in direct contact with the caulking, and the encapsulation of concrete and metal surfaces adjacent to the removed caulking. Additional details on the remediation work performed and verification sampling results are presented below.

2.2.1 Caulking and Window Removal

The windows and associated caulking subject to removal as described in the Notification were removed from Anderson Hall and managed for off-site disposal as PCB waste ≥ 50 ppm. This included caulking from within the metal tracks of the concrete overhang, and caulking and associated window components where PCB caulking was discovered at any concentration during site characterization. No caulking or window components removed as part of this work were managed for off-site disposal as PCB waste < 50 ppm or as non-PCB general demolition debris.

In general, the remediation work consisted of the following activities:

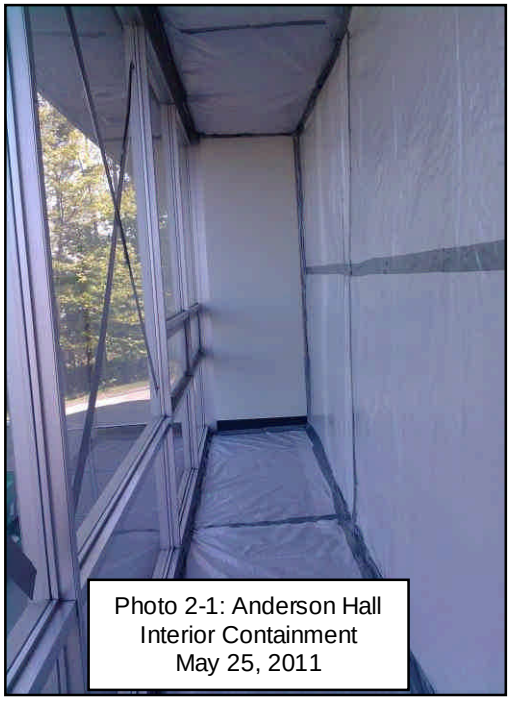


Photo 2-1: Anderson Hall Interior Containment May 25, 2011

- Controls and containments were established before removal work as described in Section 3.1 of the Plan and in Sections 3 and 4 of the Contractor workplan. Window treatments were removed, and interior fixtures and furniture were moved to a sufficient distance away from the windows to allow for interior containment setup. Both interior and exterior containments and controls were installed to control the spread of dust or debris outside of the work areas.
- Prior to window removal, gross removal of exterior caulking was performed at the window perimeters and from within the concrete overhang joints using hand tools and mechanical caulking cutters. Caulking waste was collected and transferred directly into lined waste containers staged adjacent to the work area for the collection of PCB waste.
- Glass window panes were removed from the frames, and were lowered from the first floor to the ground surface, which was covered with poly sheeting. Prior to the end of each work shift, the glass panes were transferred into lined waste containers staged adjacent to the work area for the collection of PCB waste.
- Metal window frames and other components associated with the former windows (e.g., metal brackets, wooden shims or 2 x 4's, etc.) were removed and transferred directly into lined waste containers staged adjacent to the work area for the collection of PCB waste.
- Any residual PCB caulking left on the remaining structural building components was scraped in a controlled manner and transferred directly into lined waste containers staged adjacent to the work area for the collection of PCB waste.

- After removing the caulking and windows, building materials left in place and in former direct contact with the removed caulking were inspected to confirm that caulking had been removed to the maximum extent practical at the following locations:
    - The lower perimeter concrete floor slab edge remaining adjacent to the bottom perimeter of the former window frame (see Photos 2-2 and 2-3 below);
    - The surface in former direct contact with the upper perimeter of the former window frame, which consisted of a metal track formerly joined to the removed windows. No structural concrete was found to be in former direct contact with the upper perimeter of the window frames at this location (see Photos 2-4 through 2-6 below); and
    - The concrete overhang adjacent to the upper perimeter of the former windows (see Photo 2-7 below).

After the visual inspections, concrete and metal tracks left in place adjacent to the former caulking and windows were encapsulated as depicted in the following photos and as discussed in Section 2.2.2 below.

2.2.2 Encapsulated Surfaces

Surfaces in former direct contact with PCB caulking were encapsulated with two coats of epoxy (Sikagard 62), and surfaces beyond the former joints were encapsulated with two coats of a protective acrylic clearcoat (Sikagard 670W). Surface wipe samples were collected from the encapsulated surfaces using hexane-soaked gauze wipes supplied by the analytical laboratory over 100 cm^2 areas in accordance with 40 CFR 761.123. Analytical results from the verification samples were evaluated to determine whether or not each task was complete as follows:

- Analytical results ≤ 1 µg/100 cm^2 – task complete; no additional coating required; and
- Analytical results > 1 µg/100 cm^2 – additional coating of encapsulant applied, and additional verification wipe sample collected at an off-set location.

Encapsulated surfaces and verification sample locations are generally depicted on Figure 2-1 located at the end of this document. Additional details on each of the encapsulated surfaces are provided below.

2.2.2.1 Lower Perimeter Concrete Slab Edge

After removing the caulking, window frame, and associated components in contact with the lower perimeter concrete slab edge as shown in Photo 2-2, the remaining concrete surface was sampled at a frequency of one sample per building side (four samples total) from concrete in former direct contact with the lower portion of the window frame. As described in Section 3.2.3 of the Remediation Plan, sample results above the 1 ppm unrestricted use cleanup level would result in implementing a liquid coating encapsulation approach prior to installation of the new window components. Given the need to install new windows immediately following removal of the old windows, the concrete surface was encapsulated and surface verification wipe sampling conducted prior to receiving the bulk concrete sample results in order to allow window installation to proceed.

Verification surface wipe samples were collected from the coated surfaces at a frequency of one sample per building side (four samples total) for comparison to the 1 µg/100 cm^2 target action level. Because the epoxy-coated surfaces would be inaccessible after installation of the new windows, the samples were collected from the Sikagard 670W-coated surfaces as these would remain accessible in the future. Both of these surfaces are shown in Photo 2-3.

As summarized on Table 2-1, three of the four concrete sample results were reported with detectable concentrations

of PCBs, with only one of these results reported above 1 ppm (the north elevation sample contained PCBs at 12 ppm), and all four surface verification wipes were reported as non-detect (< 0.5 µg/100 cm^2) or with detectable concentrations of PCBs ≤ 1 µg/100 cm^2. As indicated above, the concrete surfaces in former direct contact with the window frame and caulking had already been encapsulated with two coats of Sikagard 62 according to manufacturer's specifications along the entire 350 linear feet (l.f.) perimeter, and the remaining portion of the concrete slab edge below the direct contact surface had been encapsulated with two coats of Sikagard 670W (an acrylic clearcoat) as this surface would remain exposed beneath the lower edge of the newly installed windows. Because only one of the four bulk concrete results was reported with PCBs > 1 ppm in the concrete left in place (on the north elevation), the encapsulated concrete on the north elevation only will be carried forward for long-term monitoring as described in Section 4.

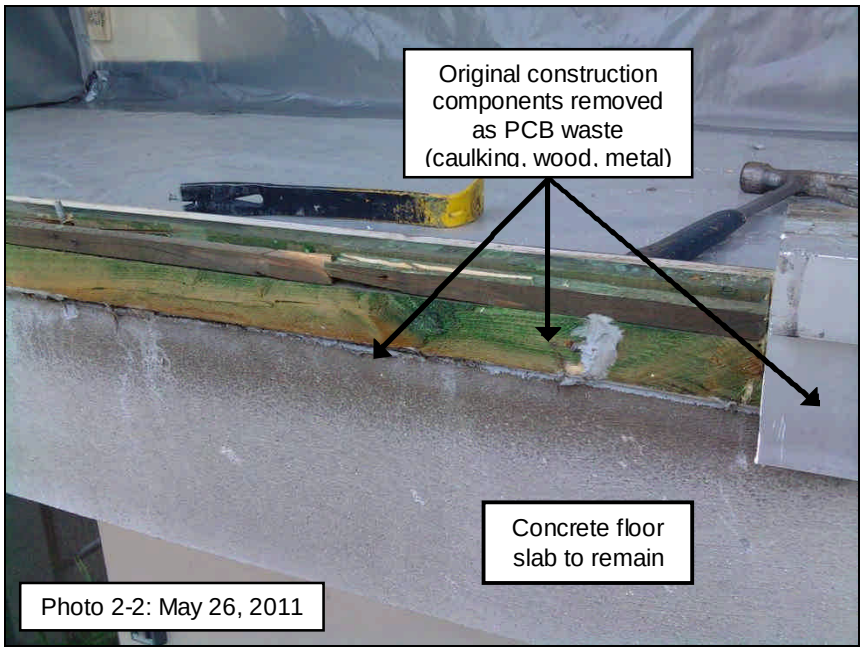


Photo 2-2: May 26, 2011

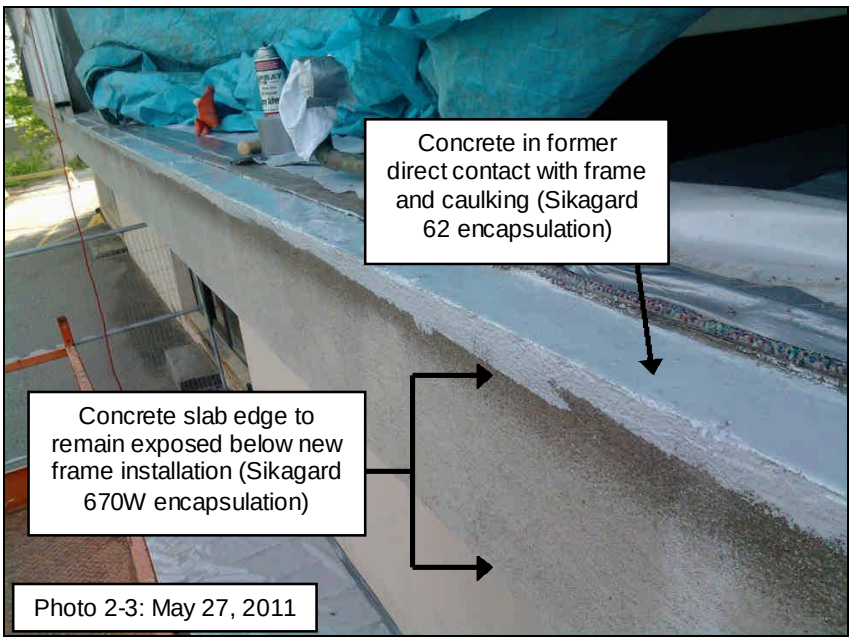


Photo 2-3: May 27, 2011

2.2.2.2 Upper Perimeter Metal Track

After removing the caulking, window frame, and associated components in contact with the upper perimeter metal track at the near edge of the concrete overhang as shown in Photo 2-4, the metal surface was prepared for encapsulation as proposed in the Notification. The metal was encapsulated with two coats of Sikagard 62 according to manufacturer's specifications along the entire 350 l.f. perimeter, and verification surface wipe samples were collected from the encapsulated surface (Photo 2-6) at a frequency of one sample per building side (four samples total). The new windows were installed at each location immediately following sample collection.

As summarized in Table 2-1, verification wipes reported low concentrations of PCBs, ranging from 0.9 to 2.85 µg / 100 cm^2 in the samples. Due to the configuration of the new windows, the encapsulated metal track surface is covered by a secondary containment barrier in the form of the new window frame, which extends over the epoxy covered area. Although low levels of PCBs were detected on the epoxy surface, the combined presence of the liquid coating and the physical barrier (window frame), as well as the surface's inaccessibility due to height (greater than 10 feet high on all four façades) are considered to adequately be protective of direct contact exposures and/or future migration from this surface.

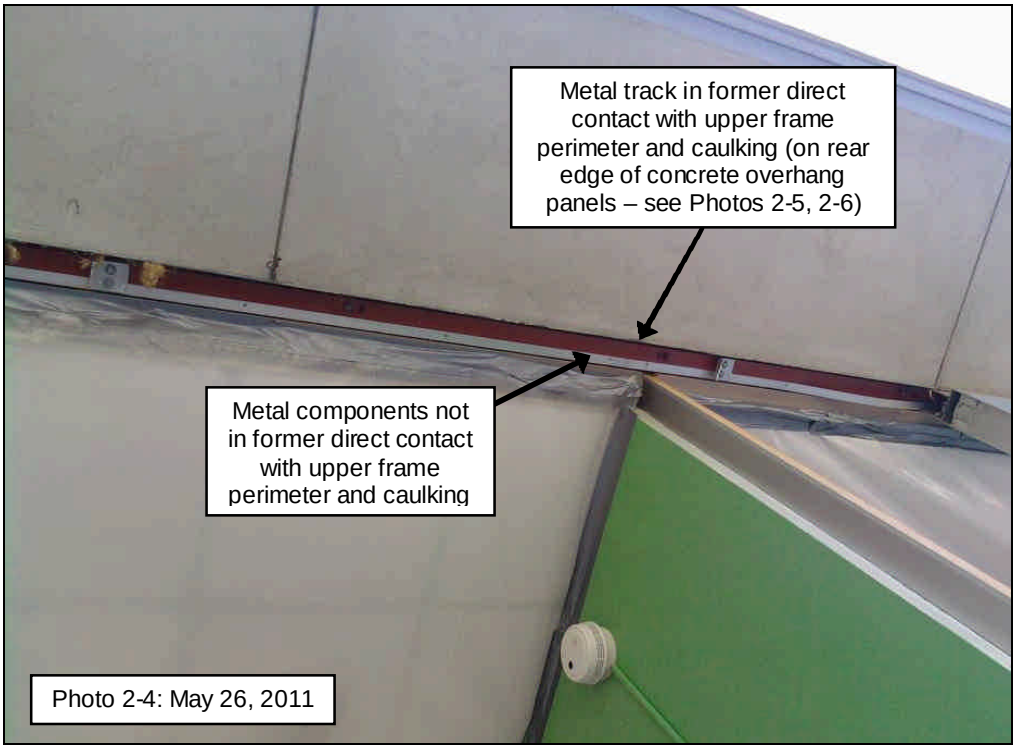
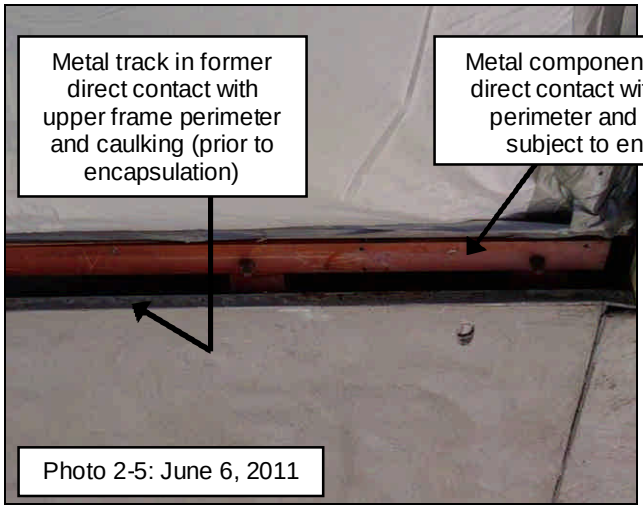
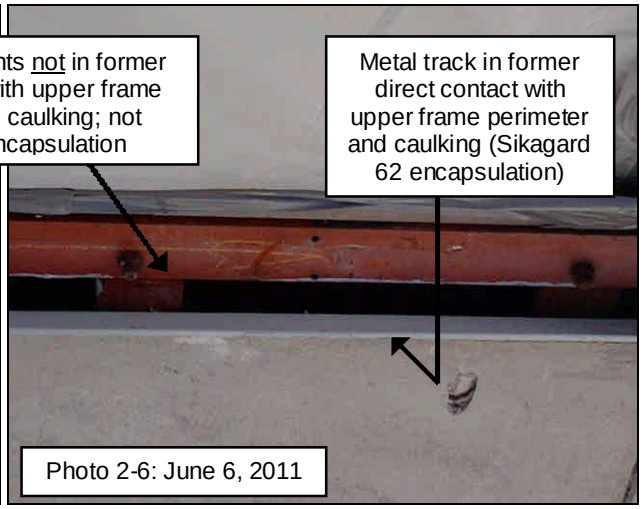


Photo 2-4: May 26, 2011





2.2.2.3 Concrete Overhang

After removing the caulking from within the metal tracks between each panel of the concrete overhang, the joints were inspected and surfaces were prepared for applying encapsulation coatings. This included two surfaces related to the overhang, including the concrete panels between each joint, and the joints themselves as shown in Photo 2-7 and as described below:

Concrete Surfaces

The concrete panels within the overhang were scheduled for encapsulation based on characterization data indicating that the concrete contained PCBs > 1 ppm adjacent to the caulked joints. For aesthetic reasons, the entire surface of each concrete panel was coated as opposed to limiting the extent of the coated surface to a certain distance from each joint. Two coats of Sikagard 670W were applied to the concrete as proposed in the Plan according to manufacturer's specifications, and verification surface wipe samples were collected from the encapsulated surface at a frequency of one sample per 250 ft^2, for a total of five samples from the 1,230 ft^2 area.

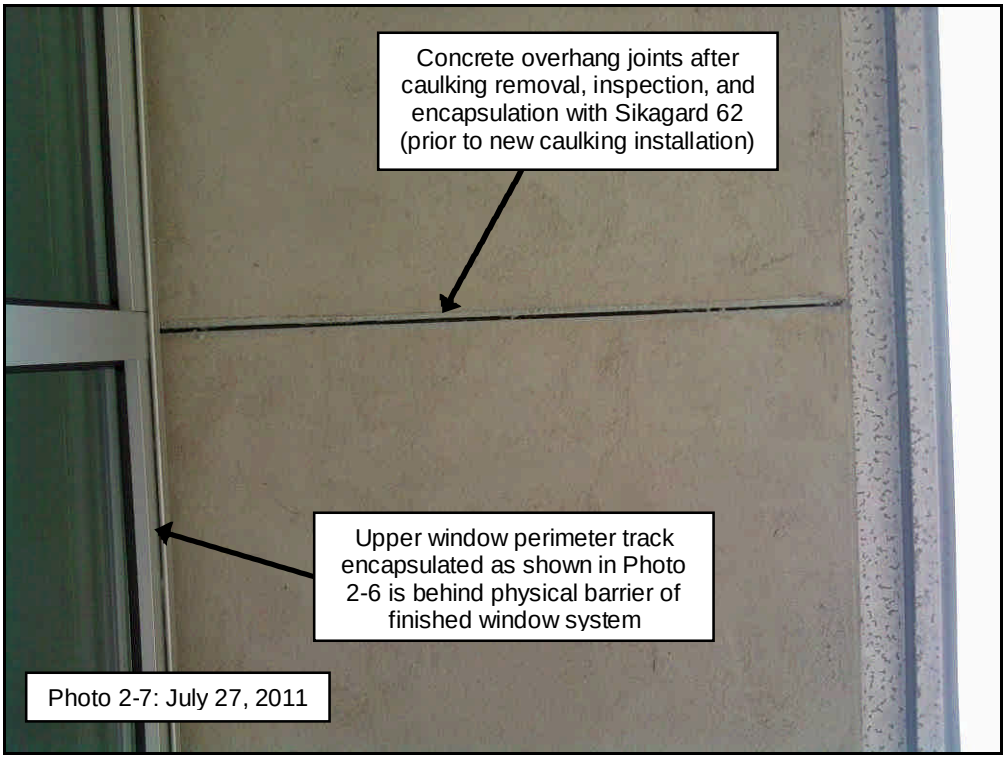
As summarized in Table 2-1, all five verification wipes were reported as non-detect (three samples; < 0.5 µg/100 cm^2) or with detectable concentrations of PCBs ≤ 1 µg/100 cm^2, indicating that the remediation was considered complete for the concrete portion of the overhang.

Metal Tracks

The caulking removed from the joints of the concrete overhang formerly coated the inner returns of the metal tracks between each overhang panel. As such, the metal surfaces of the joints were encapsulated using two coats of Sikagard 62 according to the manufacturer's specifications. Once both coats of liquid epoxy cured, and prior to new caulking application, wipe samples were collected from the coated joints at a frequency of 1 sample per 100 l.f. for a total of two samples from the 220 l.f. length of coated joints.

As summarized in Table 2-1, the results of the initial verification samples in comparison to the 1 µg/100 cm^2 target action level indicated that PCBs were detected in the two samples at concentrations of 23 and 195 µg/100 cm^2 after two coats of epoxy. Based on these results, a third coat of epoxy was applied to the inner returns of all 220 l.f. of this joint type. Follow-up verification wipe samples were collected at two new locations after the third coat of epoxy had cured, and the analytical results confirmed that PCBs were non-detect in one sample (< 0.5 µg/100 cm^2) and contained detectable concentrations of PCBs ≤ 1 µg/100 cm^2 in the second sample, indicating that the remediation

was considered complete for the metal tracks within the overhang. Upon receipt of the verification data, the coated surfaces were subsequently finished by the installation of a replacement bead of caulking in each joint.



2.3 UPTON HALL

Work was performed at four elevations of Upton Hall between July 6, 2011 and August 17, 2011. In general, this included the removal and off-site disposal of PCB caulking and windows in direct contact with the caulking, and the encapsulation of masonry and metal surfaces adjacent to the removed caulking. Additional details on the remediation work performed and the verification sampling results from the South Elevation First Floor and the North Elevation Full Length Windows are presented below.

It is noted that the materials removed for off-site disposal as PCB waste also included the waste materials generated from the Southwest Stair Elevation and the North Elevation First Floor locations (as described in Sections 2.3.3 and 2.3.4 of the Remediation Plan). Although the caulking materials at these two locations were determined to meet the definition of Excluded PCB Products and were not subject to regulation under 40 CFR 761, the combined caulking and window waste stream was consolidated with the PCB ≥ 50 ppm waste due to its relatively small volume and to streamline the off-site disposal process (see Section 2.5).

2.3.1 Caulking and Window Removal

The windows and associated caulking subject to removal as described in the Notification were removed from Upton Hall and managed for off-site disposal as PCB waste ≥ 50 ppm. This included caulking and associated window components where PCB caulking was discovered at any concentration during site characterization. No caulking or window components removed as part of this work were managed for off-site disposal as PCB waste < 50 ppm or as non-PCB general demolition debris.

At the two Upton Hall locations where PCB bulk product waste was removed and building materials in former direct contact with this caulking were removed or encapsulated, the remediation work consisted of the following activities:

- Controls and containments were established before removal work as described in Section 3.1 of the Plan and in Sections 3 and 4 of the Contractor workplan. Window treatments were removed, and interior fixtures and furniture were moved to a sufficient distance away from the windows to allow for interior containment setup. Both interior and exterior containments and controls were installed to control the spread of dust or debris outside of the work areas.
- Prior to window removal, gross removal of exterior caulking was performed at the window perimeters using hand tools and mechanical caulking cutters. Caulking waste was collected and transferred directly into lined waste containers staged adjacent to the work area for the collection of PCB waste.
- Glass window panes were removed from the frames and were transferred directly into lined waste containers staged adjacent to the work area for the collection of PCB waste.
- Metal window frames and other components associated with the former windows (e.g., metal brackets, wooden shims or 2 x 4's, etc.) were removed and transferred directly into lined waste containers staged adjacent to the work area for the collection of PCB waste.
- Any residual PCB caulking left on the remaining structural building components was scraped in a controlled manner and transferred directly into lined waste containers staged adjacent to the work area for the collection of PCB waste.
- After removing the caulking and windows, building materials left in place and in former direct contact with the removed caulking were inspected to confirm that caulking had been removed to the maximum extent practical at the following locations:
    - South Elevation First Floor (Photos 2-8 and 2-9)
        - Brick Walls (former vertical joints adjacent to window perimeter)
        - Steel Beam (former upper horizontal joint adjacent to window perimeter)
    - North Elevation Full Length Windows (Photos 2-10 and 2-11)
        - Exterior Masonry (former vertical joints adjacent to window perimeter)
        - Interior Materials (former vertical joints at select interior locations adjacent to window perimeter)

After the visual inspections, building materials left in place and in former direct contact with the removed caulking were encapsulated as depicted in the following photos and as discussed in Section 2.3.2 below

All components in former direct contact with caulking at the lower horizontal perimeter of the South Elevation First Floor windows and the upper horizontal perimeter of the North Elevation Full Length Windows were removed, resulting in a condition where no materials were left in place to inspect or encapsulate after removals. The lower horizontal perimeter of the North Elevation Full Length Windows consisted of a concrete knee wall, where the caulking at this joint was reported as non-detect for PCBs during site characterization (< 0.5 ppm), and no remedial actions were proposed for the lower concrete knee wall to be left in place.

2.3.2 Encapsulated Surfaces

Surfaces in former direct contact with PCB caulking were typically encapsulated with two coats of epoxy (Sikagard 62), and surfaces beyond the former joints were encapsulated with two coats of a protective acrylic clearcoat (Sikagard 670W). Verification surface wipe samples were collected from the encapsulated surfaces using hexane-soaked gauze wipes supplied by the analytical laboratory over 100 cm^2 areas in accordance with 40 CFR 761.123. Analytical results from the verification samples were evaluated to determine whether or not each task was complete as follows:

- Analytical results ≤ 1 µg/100 cm^2 – task complete; no additional coating required; and
- Analytical results > 1 µg/100 cm^2 – additional coating of encapsulant applied, and additional verification wipe sample collected at an off-set location.

Encapsulated surfaces and verification sample locations are generally depicted on Figure 2-2 located at the end of this document. Additional details on each of the encapsulated surfaces are provided below.

2.3.2.1 South Elevation First Floor

After removing the windows, residual caulking was removed from the former caulked joint locations, and surfaces were prepared for the encapsulation coatings. This included the brick walls adjacent to the two vertical joints, and the upper horizontal steel beam as shown in Photos 2-8 and 2-9 and described further below.

<u>Bricks</u>

As proposed in the Plan, the brick walls adjacent to the former windows and caulked joints were encapsulated with a liquid epoxy coating on the brick surface in former direct contact with the PCB caulking, and extending to a lateral distance of 2 inches beyond the caulked joint based on the data from one brick characterization sample, which delineated the extent of migration to a level < 1 ppm at an interval of 2 to 3.5 inches (UH-CBB-027; 0.162 ppm). The 2 inch lateral distance was selected for delineation given the front edge of the newly installed window frame would extend an additional 2 inches beyond the edge of the original caulked joint, and any brick surfaces requiring encapsulation of PCBs > 1 ppm in the brick would also be covered by a secondary barrier after window installation. The adjacent brick beyond 2 inches from the joint was encapsulated with a clear liquid coating as it would remain visible after new window installation.

Following window removal, three additional brick samples were collected in order to achieve a Subpart O sampling frequency for delineating the lateral extent of PCB migration adjacent to the joint. The samples were located at a lateral distance of 2 to 3.5 inches beyond the former caulked joint to confirm the extent of migration reported in the first characterization sample at this same interval. Prior to receiving bulk brick sample results, two coats of Sikagard 62 epoxy were applied to brick surfaces in former direct contact with the caulked joints and to a lateral distance of 2 inches in front of the joint. Two coats of Sikagard 670W acrylic clearcoat were applied to the brick surface that would remain exposed in front of the new windows, in the interval from 2 inches out to the first 90-degree corner of the brick (i.e., 4 to 6 inches in front of the joint). Two verification surface wipe samples were collected from the epoxy-coated brick surface at locations in former direct contact with caulking (one sample per side), and the new windows were installed immediately after coating application in accordance with the project schedule, which required new window installation immediately following window removal.

As summarized on Table 2-2, the three additional bulk brick samples collected from the 2 to 3.5 inch interval were reported with low levels of PCBs ranging from 0.244 to 0.550 ppm (consistent with the first characterization result of 0.162 ppm), confirming that the extent of PCB migration in brick from the former caulking was limited to the first 2 inches of brick. Given that all four results were below the 1 ppm unrestricted use cleanup level, the brick surface

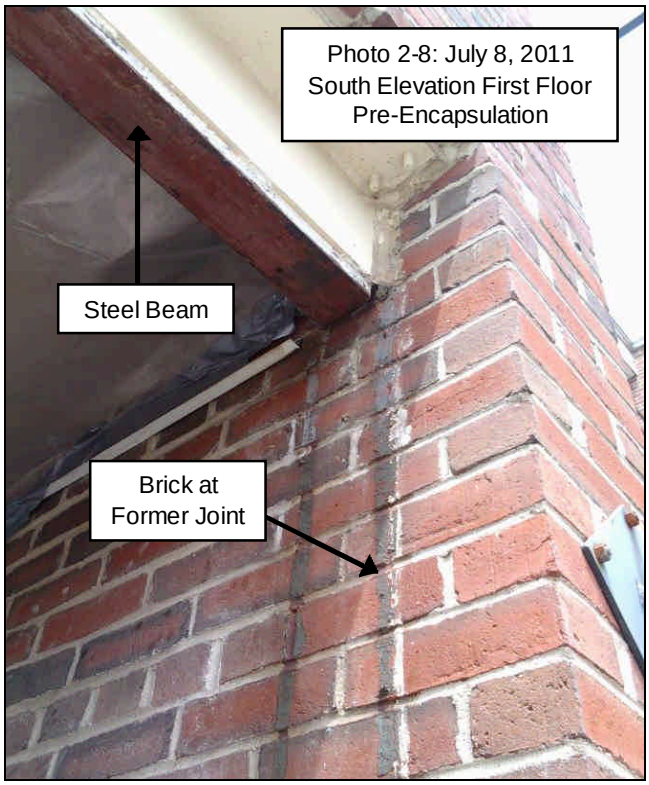
accessible in front of the new window frames (i.e., at lateral distances greater than 2 inches beyond the former caulked joint, coated with Sikagard 670W) will not be included in the long term monitoring plan for encapsulated surfaces as outlined in Section 4.

The two verification surface wipe samples collected from the epoxy-coated brick surface were both reported as non-detect for PCBs (< 0.5 µg/100 cm^2), indicating that the remediation was considered complete for the bricks at this location.

Steel Beam

The lower horizontal component of the steel beam in former direct contact with the upper perimeter of the windows was scraped to remove residual caulking to the maximum extent practical. After a visual inspection, surface wipe samples were collected from the metal to determine the concentrations of PCBs remaining on the surface at a frequency of one sample per 25 l.f., for a total of three samples from the 78 l.f. beam.

As summarized on Table 2-2, all three metal wipe results were reported with detectable concentrations of PCBs, with concentrations ranging from 54 to 391 µg/100 cm^2. Based on this data (reported above the 10 ug/100cm^2 cleanup level), the metal surface in former direct contact with the caulking was encapsulated with two coats of Sikagard 62 according to manufacturer's specifications, and the new windows were installed immediately following encapsulation (prior to epoxy cure time or verification sampling). The new installation resulted in the encapsulated metal track surface being covered by a secondary containment barrier in the form of the new window frame, which extended fully over the epoxy-coated surface. The combined presence of the liquid coating and the physical barrier (window frame), as well as the surface's inaccessibility are considered to adequately be protective of direct contact exposures and/or future migration from this surface.



2.3.2.2 North Elevation Full Length Windows

After removing the windows, residual caulking was removed from the former caulked joint locations, and surfaces were prepared for encapsulation coatings. This included brick and concrete walls adjacent to the two vertical joints, and certain interior surfaces as shown in Photos 2-10 and 2-11 and described further below.

Exterior Masonry

The brick walls adjacent to the former windows and caulked joints were scheduled for encapsulation with a liquid coating based on characterization data indicating that PCBs were present at detectable concentrations adjacent to the caulked joints. As proposed in the Notification, additional brick samples were collected to determine the extent of the encapsulation at a frequency of 1 sample per 15 linear feet. The sample locations and results are summarized in Table 2-2 and described in further detail below:

- Two samples were collected at a distance of 12-13 inches from the caulked joint within 10 feet of ground surface to delineate the lateral extent of the coating in high occupancy areas:
    - The sample collected from the eastern vertical joint (brick surface) was reported with PCBs at 0.671 ppm, which delineated the lateral extent of PCBs to a 1 ppm cleanup level in brick;
    - The sample collected from the western vertical joint (concrete surface) was reported with PCBs at 0.957 ppm, which delineated the lateral extent of PCBs to a 1 ppm cleanup level in concrete;
- Four samples were collected at a distance of 1-2 inches from the caulked joint at heights greater than 10 feet above ground surface to confirm that brick surfaces to remain exposed beyond the new window frame met the low-occupancy cleanup level of 25 ppm:
    - Four brick samples were collected (two east side, and two west side) and reported with PCBs at detectable concentrations ranging from 4.18 to 8.56 ppm. These results delineated the lateral extent of PCBs to a 25 ppm cleanup level in brick that would remain exposed at heights greater than 10 feet above ground surface;
    - No concrete samples were collected at heights greater than 10 feet above ground surface, as no concrete was present at these elevations.

Based on this data, surfaces that would remain exposed beyond the former caulking within 10 feet of ground surface were encapsulated with two coats of Sikagard 670W according to manufacturer's specifications; this included brick and concrete surfaces to a distance of 16 inches in front of the former joint in order to coincide with the corner of each column (covering 4 inches beyond the minimum 12 inches that required encapsulation per the data). Masonry surfaces in former direct contact with the caulking were encapsulated with two coats of Sikagard 62 according to manufacturer's specifications; this included brick and concrete surfaces regardless of the height above ground surface. Masonry remaining exposed in front of the former joint (i.e., beyond the epoxy-coated surface) at elevations greater than 10 feet above ground surface were not encapsulated, as the data met the low-occupancy cleanup level of 25 ppm.

After encapsulation, two verification surface wipe samples were collected from the coated brick surface remaining exposed in front of the newly installed windows (one sample per side). As summarized in Table 2-2, both verification wipes met target cleanup levels, with one sample reported as non-detect for PCBs (< 0.5 µg/100 cm^2), and the second sample reported with PCBs at 0.6 µg/100 cm^2. These results indicated that the remediation was considered to be complete for the encapsulated materials at this location.

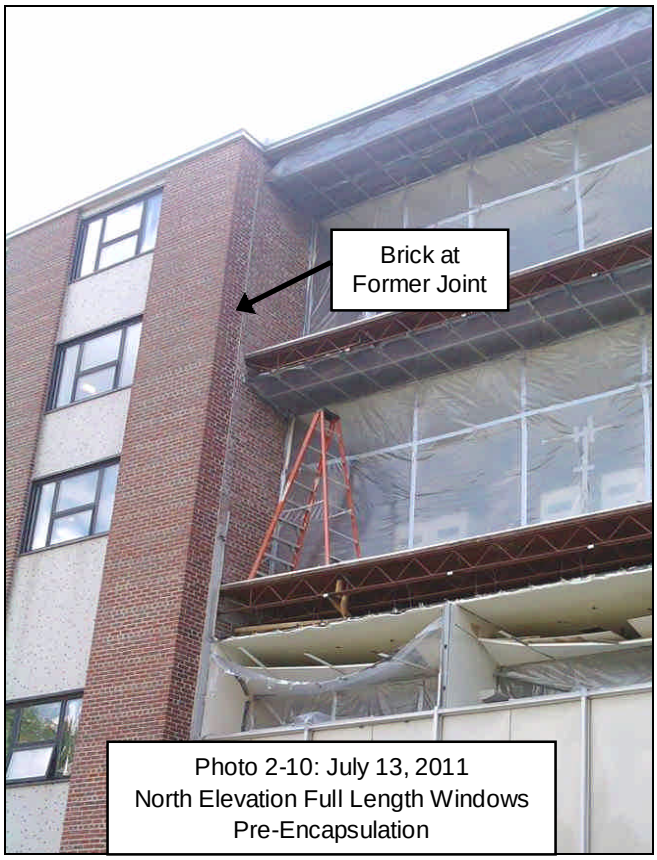


Photo 2-10: July 13, 2011
North Elevation Full Length Windows
Pre-Encapsulation

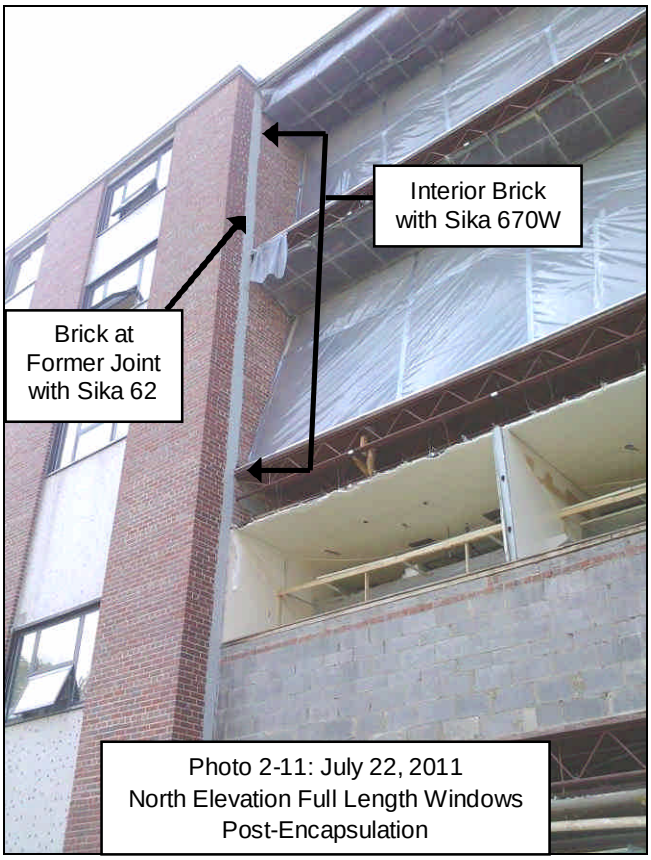


Photo 2-11: July 22, 2011
North Elevation Full Length Windows
Post-Encapsulation

Interior Masonry

The brick walls adjacent to the former windows and interior caulked joints on the upper two floors of this elevation were scheduled for encapsulation with a liquid coating based on characterization data indicating that PCBs were present at detectable concentrations adjacent to the caulked joints. Based on this data, surfaces that would remain exposed beyond the former caulking within 8 inches (one brick width) of the interior joint were encapsulated with two coats of Sikagard 670W according to manufacturer's specifications. This approach was applied to the laundry room (between the 2nd and 3rd floors) and the "3 ½ Classroom" (between the 3rd and 4th floors) at this elevation, for a total of 44 l.f. of encapsulated surface (11 l.f. length per joint, per room).

After encapsulation, two verification surface wipe samples were collected from the coated brick surface remaining accessible in front of the newly installed windows (one sample per floor). As summarized in Table 2-2, both verification wipes were reported as non-detect for PCBs (< 0.5 µg/100 cm^2), indicating that the remediation was considered to be complete for the encapsulated masonry at these interior locations.

Other Interior Surfaces

At the garden level elevation, replacement caulking considered PCB remediation waste (14.9 ppm) was removed from one interior window joint formerly in direct contact with two interior materials (a plaster wall surface and a wooden window ledge). This material was observed at only the western vertical joint of this elevation. Because the interior surfaces in former contact with the caulking were left in place, an encapsulation approach was implemented for these surfaces by applying two coats of Sikagard 670W according to manufacturer's specifications. The wall was coated along the length of the joint (approximately 3 feet) to a lateral distance of 2 feet from the joint, and the wooden shelf was coated over the entire area (measuring approximately 2 feet by 1 foot).

After encapsulation, verification surface wipe samples were collected from the coated surfaces remaining accessible in front of the newly installed windows. As summarized in Table 2-2, both verification wipes collected from the plaster wall were reported as non-detect for PCBs (< 0.5 µg/100 cm^2), including the sample of the newly coated surface (UH-VWW-085) as well as the sample collected immediately beyond the lateral limits of coating application at 24-27 inches from the joint to confirm the extent was sufficient (UH-VWW-086). The initial verification sample collected from the coated wooden shelf was reported with PCBs just above the target cleanup level at 1.1 µg/100 cm^2, which resulted in the application of a third coat of Sikagard 670W to the surface. A follow-up verification sample collected from the wooden shelf was reported as non-detect for PCBs (< 0.5 µg/100 cm^2), indicating that the remediation was considered to be complete at these interior locations.

2.4 ADJACENT GROUND SURFACES

As proposed in Section 2.4 of the PCB Remediation Plan, soil characterization sampling was performed at Anderson and Upton Halls after completion of the building remediation work. A plan to remediate soils containing PCBs > 1 ppm will be prepared and submitted to EPA as a Modification to the Plan as per Condition 20 of the Approval.

2.5 WASTE STORAGE AND DISPOSAL

The following activities were completed with regard to the proper storage and disposal of PCB wastes:

- Secure, lined, and covered waste containers (i.e., roll-off containers) were staged for the collection of PCB wastes generated during the work activities in accordance with 40 CFR 761.65.
- PCB waste containers were properly labeled and marked in accordance with 40 CFR 761.40.
- Upon removal from the building, PCB wastes were placed into the appropriate waste containers immediately upon removal or at the end of each work day.
- Caulking containing PCBs ≥ 50 ppm and building materials coated or in direct contact with this caulking (metal window and door frames, and glass window panes) were transported off-site for disposal as PCB waste ≥ 50 ppm. A total of 17,473 kilograms (19 tons) of PCB waste contained in 4 roll-off containers was removed for off-site disposal by Clean Harbors, Inc. and transported to the CWM Chemical Services, LLC hazardous waste disposal facility located in Model City, New York. The first load was received at the facility on June 24, 2011, and the last (fourth) load was received on August 16, 2011.
- Copies of waste manifests and certificates of disposal are included in Appendix C of this Report.

2.6 SITE RESTORATION

After completing the PCB remediation activities, applying encapsulation coatings, and verifying that the cleanup levels had been met, new windows were installed, and the building renovation was completed according to the architect's plans for the overall site renovation project.

2.7 DATA QUALITY ASSESSMENT

This data quality and data usability assessment has been conducted to review the 44 primary samples collected in support of the remediation and verification activities. Data validation and review was conducted by a third-party validator, Data Check, Inc. of New Durham, New Hampshire. This review included a check of field documentation

including sample collection and preservation methods, a check of the laboratory data and documentation, a review of the internal laboratory QA/QC procedures and results including surrogate recoveries, blank results, matrix spike (MS) and matrix spike duplicate (MSD) results, laboratory control standard (LCS) and laboratory control standard duplicate (LCSD) results, an evaluation of sample holding times, and field duplicate results. The assessment was performed in general conformance with USEPA Region I Guidelines and the Quality Control Guidelines. Data Check's data validation summaries are provided in Appendix D.

A summary of the data usability assessment for the data is presented below:

- Some samples were analyzed at dilutions due to the concentration of PCBs present in the samples and/or due to sample matrix. Elevated quantitation limits are reported in these samples as a result of the dilutions performed.

- Two field duplicate samples were collected and submitted to the laboratory as part of the field QA/QC procedures; both duplicate samples were surface wipes. The relative percent difference (RPD) between one primary and duplicate sample pair met acceptance criteria, and no results were qualified as estimated due to the field duplicate precision results. The RPD between the second primary and duplicate sample pair did not meet acceptance criteria, and the Aroclor 1254 results in Analytics Report # 70288 were qualified as estimated (J for detected results, UJ for non-detect results) due to poor field duplicate precision.

- One field equipment blank sample was collected and submitted to the laboratory as part of the field QA/QC procedures. The blank sample was non-detect for PCBs, and no qualifications were applied to the data.

- Certain sample results were qualified as estimated (J) if the RPD between the column results was outside of the acceptance criteria (< 25%). Regardless of the RPD between the column results, the laboratory reports the higher of the two column results. Two samples were qualified as estimated based on column RPD ≥ 25%; these qualifiers are included in the summary tables provided with this report.

- Accuracy of the analytical data was assessed by reviewing MS/MSD, LCS/LCSD, and surrogate recoveries. The MS/MSD and LCS/LCSD recoveries met acceptance criteria for all data sets, and no qualifiers were applied to the data. No results were qualified as estimated based on surrogate recoveries outside acceptance criteria; surrogate recoveries met acceptance criteria or were diluted out.

- Representativeness of the data was evaluated qualitatively utilizing site information and sampling data. Samples were extracted and analyzed within allowable holding times. Consistent procedures and laboratory analysis of the data were achieved. Sample containers were packed on ice and were accompanied by complete chain of custody forms from the time of sample collection until laboratory delivery. PCBs were not detected in the laboratory method blank analyses, indicating that there were no interferences introduced at the laboratory during sample analysis.

- The data packages were reviewed to ensure that all sample and associated quality assurance results were available. The completeness review indicated that all samples were analyzed and all quality control results were available to complete the data validation process.

Based on this review, the data adequately represents the materials tested, and the samples collected are considered usable for the purposes of characterizing PCB-affected media and verifying remediation efforts in accordance with 40 CFR Part 761.

3. DEED NOTICE

Pursuant to Condition 17 of EPA's June 29, 2011 Approval, a draft deed notice for the property has been prepared as required under 40 CFR 761.61(a)(8)(i)(A). The notation on the deed includes a description of the extent and levels of PCBs remaining on the building following remediation, a description of the actions taken at the site, a description of the use restrictions, and the long-term monitoring and maintenance requirements. The draft deed notice was submitted to EPA on November 30, 2011.

Within seven days of receipt of EPA's approval of the draft deed notice, the notice will be recorded with the Cumberland County Registry of Deeds. After recording, a certification signed by the owner will be submitted to EPA to certify that the notice was recorded pursuant to 40 CFR 761.61(a)(8)(i)(B).

4. MONITORING AND MAINTENANCE IMPLEMENTATION PLAN

Pursuant to Condition 18 of EPA's June 29, 2011 Approval, a Monitoring and Maintenance Implementation Plan (MMIP) has been prepared to monitor the effectiveness of the remedy on encapsulated surfaces over time. The MMIP, which was submitted to EPA on December 15, 2011, includes the following:

- A description of the monitoring and maintenance activities that will be conducted, including inspection criteria, frequency, and routine maintenance activities;
- Sampling protocols, sampling frequency, analytical criteria and reporting requirements;
- A communications component which details how the maintenance and monitoring results will be communicated to EPA and personnel responsible for the building use;
- A worker training component for maintenance workers or for any person that will be conducting work that could impact the building coatings/barriers; and
- A recordkeeping and reporting schedule to submit the results of the MMIP activities to EPA.

5. SUMMARY AND CONCLUSIONS

The PCB remediation activities described in this Report have been performed in accordance with the Notification and the conditions of EPA's June 29, 2011 Approval.

In summary, the work included the following activities:

- Removal of PCB-containing materials for off-site disposal, including exterior caulking and windows. A total of 19 tons of bulk PCB waste (caulking and associated window components, spent PPE and poly sheeting, etc.) contained in 4 roll-off containers was removed for off-site disposal as PCB waste ≥ 50 ppm to the CWM Chemical Services, LLC hazardous waste disposal facility located in Model City, New York.

- Encapsulation of PCB-impacted building materials scheduled to remain in place, including certain brick, concrete, and metal surfaces. Residual concentrations of PCBs remain at levels greater than 1 ppm (up to 149 ppm) in certain porous building materials, and at levels greater than 10 µg/100 cm^2 (up to 391 µg/100 cm^2) on certain non-porous building materials adjacent to window joints at both Anderson and Upton Halls. These surfaces have been encapsulated using a combination of liquid coatings and physical barriers as generally depicted on Figures 2-1 and 2-2.

- Restriction of certain PCB-impacted exterior surfaces scheduled to remain in place at Upton Hall. Residual concentrations of PCBs remain at levels greater than 1 ppm (up to 8.56 ppm) in certain porous building materials (brick) adjacent to window joints on the north elevation of Upton Hall. These surfaces have *not* been encapsulated at elevations greater than 10 feet above ground surface, and are subject to use restriction as low-occupancy areas at the locations generally depicted on Figure 2-2.

- Upon EPA's approval of the draft deed notice (submitted to EPA on November 30, 2011), the deed notice will be recorded to identify the restricted areas and to identify the allowable uses of these areas; and

- A long term monitoring and maintenance program will be implemented in accordance with the MMIP (submitted to EPA on December 15, 2011) to assess and verify the effectiveness of the coatings / barriers over time.

With the exception of the monitoring and maintenance activities described in the MMIP, no further work is warranted to meet the conditions of the Approval.

6. REFERENCES

U.S. Environmental Protection Agency (EPA). Title 40, Part 761 Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions.

U.S. EPA, 2011. PCB Cleanup and Disposal Approval under 40 CFR 761.61(a) and (c) and 761.79(h), Anderson and Upton Halls, University of Southern Maine, Gorham, Maine. June 29.

Woodard & Curran, Inc., 2011a. PCB Remediation Plan, Anderson and Upton Halls. March 18.

Woodard & Curran, Inc., 2011b. Response to EPA Comments, Anderson and Upton Halls. June 8.

Woodard & Curran, Inc., 2011c. Draft Deed Notice. November 30.

Woodard & Curran, Inc., 2011d. Monitoring and Maintenance Implementation Plan. December 15.

Table 2-1
Anderson Hall Verification Data Summary
University of Southern Maine - Gorham, Maine

Sample Type	Media	Sample Description	Sample Frequency	Façade	Sample Location	Sample Date	Sample ID	Reporting Limit	Total PCBs	Qualifier
Lower Window Perimeter / Concrete Slab Edge (Report Section 2.2.2.1)										
Bulk	Concrete	Concrete in former direct contact with lower horizontal window wood base frame. Baseline sample prior to Sikagard 62 coating	One per building side (4 total)	North	Sample collected above boiler room entrance.	06/01/11	AH-VBC-034	0.627	12.0	
				West	Sample collected 2' north of SW corner.	06/06/11	AH-VBC-035	0.033	0.659	
				South	Sampled approx. 17' east of TV station door, approx. 2' east of middle door near restrooms.	06/10/11	AH-VBC-040	0.033	ND	
				East	Sample collected approx. 3' north of SE corner.	06/15/11	AH-VBC-046	0.033	0.213	J
Surface Wipe (Hexane)	Sikagard 670W Clearcoat	Exposed lower perimeter concrete slab edge below former and current window system edge. Verification sample after Sikagard 670W coating	One per building side (4 total)	West	Sample collected 3" from bottom edge, 13' north of SW corner of lower slab.	06/07/11	AH-VWC-038	0.5	ND	
				South	Sample collected 2' west of emergency door, approx. 2" up from bottom edge.	06/15/11	AH-VWC-044	0.5	0.9	
				East	Sample collected 3" from bottom edge, 18' north of SE corner of lower slab.	06/17/11	AH-VWC-049	0.5	ND	
				North	Sample collected 1" from bottom edge, below 13th window bay from the NW corner.	06/22/11	AH-VWC-051	0.5	0.6	J
Upper Window Perimeter (Report Section 2.2.2.2)										
Surface Wipe (Hexane)	Sikagard 62 epoxy	Upper window perimeter metal tracks. Verification sample after Sikagard 62 coating; prior to new window install.	One per 100 l.f. (4 total)	West	Sampled metal track behind concrete overhang 10.5' south of NW corner of lower slab.	06/07/11	AH-VWE-037	0.5	0.9	
				South	Sample collected from metal track behind concrete overhang 2' east of sample -040.	06/13/11	AH-VWE-042	0.5	2.63	
				East	Sample collected from metal track behind concrete overhang, at first transverse joint north of SE corner	06/17/11	AH-VWE-047	0.5	2.85	
				North	Sample collected from metal track behind concrete overhang, approx. 10' from NE corner.	06/22/11	AH-VWE-052	0.5	2.4	J
Concrete Overhang and Joints (Report Section 2.2.2.3)										
Surface Wipe (Hexane)	Sikagard 62 epoxy	Concrete overhang metal tracks. Verification sample after Sikagard 62 coating; prior to new caulking installation.	One per 100 l.f. (2 total)	South	Sample collected from second transverse joint to west of vestibule (main entrance), halfway between front and back of panel	06/15/11	AH-VWE-043	13	195	
				North	Sample collected from third transverse joint (approx. 19') from NE corner.	06/22/11	AH-VWE-053	2.5	23	J
				North	Sample collected from fifth transverse joint west of NE corner (resample of -053).	08/18/11	AH-VWE-092	0.5	0.8	
				South	Sample collected from fifth transverse joint west of SE corner (resample of -043).	08/18/11	AH-VWE-093	0.5	ND	
Surface Wipe (Hexane)	Sikagard 670W Clearcoat	Exposed concrete overhang surface adjacent to caulked joints. Verification sample after Sikagard 670W coating	One per 250 ft^2 (5 total)	West	Sample collected approx. 6" from both transverse and backer metal of concrete overhang, approx. 12' north of SW corner.	06/07/11	AH-VWC-039	0.5	ND	
				South	Sample collected from second panel west of main entry, approx. 6" from both the 2nd transverse joint and the window frame.	06/15/11	AH-VWC-045	0.5	0.78	
				East	Sample collected approx. 2" from both transverse and backer metal of concrete overhang, approx. 5' north of SE slab corner.	06/17/11	AH-VWC-048	0.5	ND	
				North	Sample collected above 17th window bay from NW corner, approx. 2" from joint.	06/22/11	AH-VWC-055	0.5	ND	UJ
				North	Sample collected above 4th window bay from NW corner, approx. 3" from joint.	06/22/11	AH-VWC-054	0.5	0.9	J

Notes:
1. Samples were sent to Analytics Environmental Laboratory of Portsmouth, NH for Soxhlet extraction (3540C) and analyzed for PCBs by EPA Method 8082.
2. ND = Non-detect; PCBs were not detected above the laboratory's minimum reporting limit, as indicated.
3. All PCBs were reported as Aroclor 1254; no other Aroclors were detected above laboratory reporting limits.
4. Bulk results are presented in units of milligram per kilogram (mg/kg); surface wipe results are presented in units of micrograms per 100 square centimeters ($\mu g/100cm^2$).

Table 2-2
Upton Hall Verification Data Summary
University of Southern Maine - Gorham, Maine

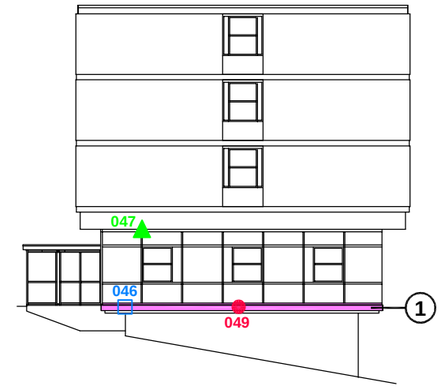
Sample Type	Media	Sample Description	Sample Frequency	Sample Location	Sample Date	Sample ID	Reporting Limit	Total PCBs	Qualifier
Upton Hall South Elevation First Floor (Report Section 2.3.2.1)									
Bulk	Brick	Brick surface 2-3.5" in front of caulked window joint. Extent of migration delineation	Subpart O (1 per 5 l.f.) (4 total)	West vertical edge, 18" above ground surface	02/03/11	UH-CBB-027	0.033	0.162	
				East vertical edge, 2.7 feet above ground surface	06/29/11	UH-VBB-056	0.033	0.244	
				East vertical edge, 6.7 feet above ground surface	06/29/11	UH-VBB-057	0.033	0.550	
				West vertical edge, 7.3 feet above ground surface	06/29/11	UH-VBB-058	0.033	0.399	
Surface Wipe (Hexane)	Sikagard 62 Epoxy	Coated brick surface in former direct contact with caulking	One per edge (2 total)	East vertical edge, 6 feet above ground surface	07/13/11	UH-VWE-062	0.5	ND	
				West vertical edge, 2 feet above ground surface	07/14/11	UH-VWE-063	0.5	ND	
Surface Wipe (Hexane)	Steel	Scraped and recoated surface of angle iron welded to steel support beam over window; former direct contact with caulking	One per 25 l.f. (3 total)	Sample collected approx. 2 feet west of east wall	07/11/11	UH-VWM-059	10	123	
				Sample collected approx. 25 feet east of west wall, approx. 7 feet west of spotlight	07/12/11	UH-VWM-060	2.5	54	
				Sample collected approx. 6 feet east of west wall	07/12/11	UH-VWM-061	25	391	
Upton Hall North Elevation Curtain Wall Windows (Report Section 2.3.2.2)									
Bulk	Brick	Brick surface 12-13" in front of caulking within 10 feet of ground surface (one per side); 1-2" in front of caulking above 10 foot elevation (two per side). Extent of migration delineation.	One sample per 15 l.f. (6 total)	West side, 1-2", approx. 2 feet below laundry room floor level	07/21/11	UH-VBB-077	0.33	4.18	
				West side, 1-2", approx. 6 inches below roof truss of laundry room ceiling.	07/21/11	UH-VBB-078	0.66	8.56	
				East side, 1-2", approx. 9" below 3-1/2 classroom floor	07/21/11	UH-VBB-079	0.297	4.76	
				East side, 1-2", 6 feet above Health Services floor level	07/21/11	UH-VBB-080	0.33	4.85	
				East side, 12-13", 5.25 feet from ground surface	07/21/11	UH-VBB-081	0.033	0.671	
				West side, 12-13", 5.5 feet from ground surface	07/21/11	UH-VBC-082	0.033	0.957	

Table 2-2
Upton Hall Verification Data Summary
University of Southern Maine - Gorham, Maine

Sample Type	Media	Sample Description	Sample Frequency	Sample Location	Sample Date	Sample ID	Reporting Limit	Total PCBs	Qualifier
Upton Hall North Elevation Curtain Wall Windows (Report Section 2.3.2.2 - Continued)									
Surface Wipe (Hexane)	Sikagard 670W Clearcoat	Coated brick surface exposed beyond new window frame; lower 10 feet above ground	One per building side (2 total)	East side, 2-6" from new window frame, 8 inches above knee wall	08/02/11	UH-VWB-083	0.5	0.6	
				West side, 1-5" from new window frame, 7 feet above ground surface	08/02/11	UH-VWC-084	0.5	ND	
Surface Wipe (Hexane)	Sikagard 670W Clearcoat	Coated interior surface extending one brick width inside former caulking joint	One per 20 l.f. (2 total)	Launrdy room west wall, 28" above floor, 10x10cm sample	08/12/11	UH-VWB-088	0.5	ND	
				3 1/2 Classroom west wall, 53" above floor, 10x10cm sample	08/12/11	UH-VWB-089	0.5	ND	
Surface Wipe (Hexane)	Sikagard 670W Clearcoat	Coated wall surface within 24"	1 total	1-4" from new window frame, 1.5 feet above knee wall	08/02/11	UH-VWW-085	0.5	ND	
		Beyond newly coated wall surface (existing paint)	1 total	24-27" away from new window frame, 1.5 feet above knee wall	08/02/11	UH-VWW-086	0.5	ND	
		Coated wooden shelf surface	1 total	1" diagonally away from corner (wall & new window frame)	08/02/11	UH-VWD-087	0.5	1.1	J
			1 total	Verification resample of sample -087 after a third coating of Sika 670W has been applied	08/18/11	UH-VWD-094	0.5	ND	

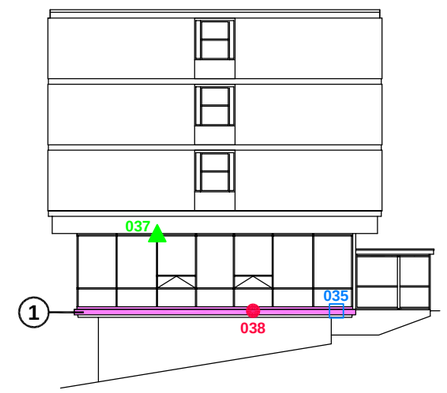
Notes:
1. Samples were sent to Analytics Environmental Laboratory of Portsmouth, NH for Soxhlet extraction (3540C) and analyzed for PCBs by EPA Method 8082.
2. ND = Non-detect; PCBs were not detected above the laboratory's minimum reporting limit, as indicated.
3. All PCBs were reported as Aroclor 1254, except sample -060 which was reported with both Aroclor 1254 and Aroclor 1260; no other Aroclors were detected above laboratory reporting li
4. Bulk results are presented in units of milligram per kilogram (mg/kg); surface wipe results are presented in units of micrograms per 100 square centimeters (ug/100cm^2).

SOUTH ELEVATION

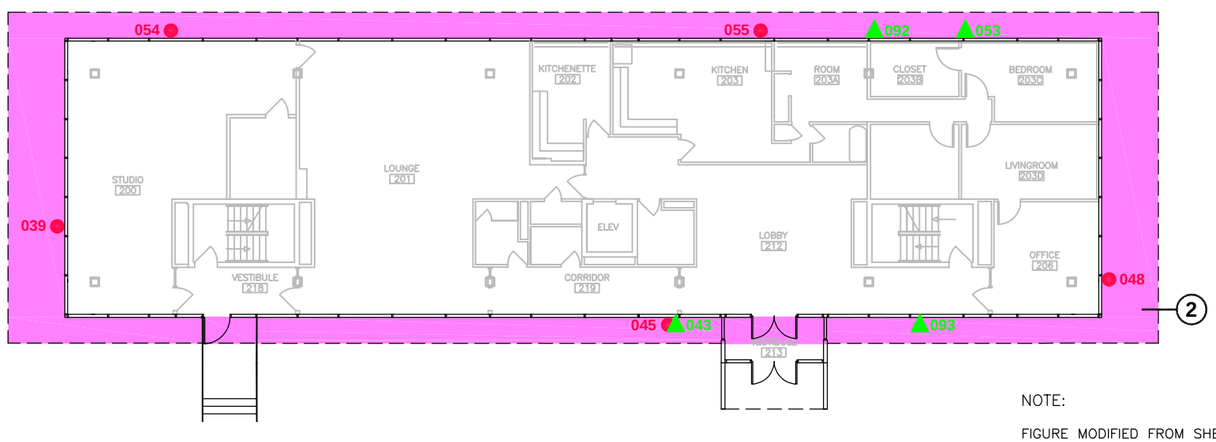


EAST ELEVATION

NORTH ELEVATION



WEST ELEVATION



FLOOR PLAN-FIRST FLOOR

LEGEND

- AFFECTED AREA (ENCAPSULATED SURFACE)
- (1) ENCAPSULATED EXTERIOR CONCRETE AT LOWER EDGE OF FIRST FLOOR WINDOWS
- (2) UNDERSIDE OF FIRST FLOOR EXTERIOR OVERHANG (ENCAPSULATED CONCRETE & METAL SURFACES)
- 035 □ BULK MASONRY SAMPLE LOCATION AND IDENTIFIER
- 038 ● SURFACE WIPE (ENCAPSULATED POROUS MEDIA) SAMPLE LOCATION AND IDENTIFIER
- 037 ▲ SURFACE WIPE (ENCAPSULATED NON-POROUS MEDIA) SAMPLE LOCATION AND IDENTIFIER

NOTE:

FIGURE MODIFIED FROM SHEET A05.1 "DEMO PLAN AND ELEVATIONS ANDERSON HALL" BY HARRIMAN ARCHITECTS & ENGINEERS (NOV. 16, 2009).

0 20 40

SCALE IN FEET

41 Hutchins Drive
Portland, Maine 04102
800.426.4262 | www.woodardcurran.com

COMMITMENT & INTEGRITY DRIVE RESULTS

WOODARD & CURRAN

ANDERSON HALL SAMPLE LOCATIONS AND ENCAPSULATED SURFACES

DESIGNED BY: ALW
DRAWN BY: EVR
CHECKED BY: JAH
FIGURE 2-1.DWG

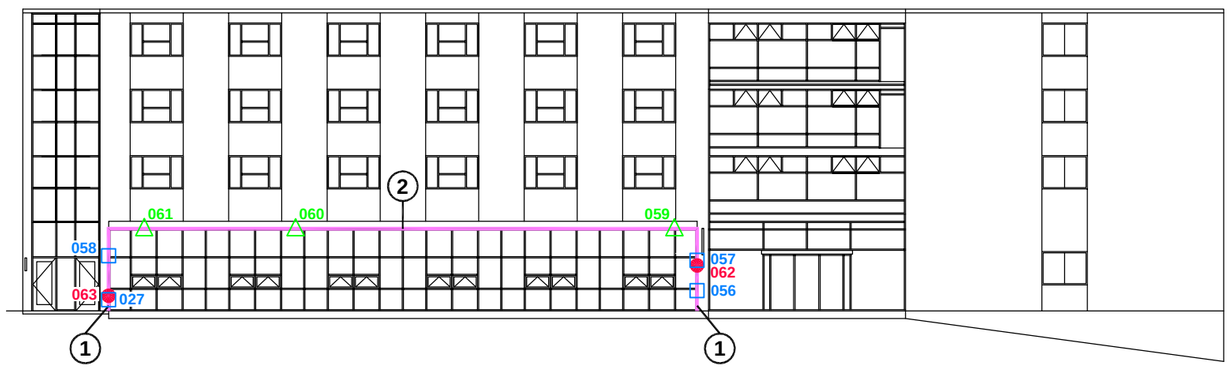
UNIVERSITY OF SOUTHERN MAINE
GORHAM, MAINE

FINAL COMPLETION REPORT

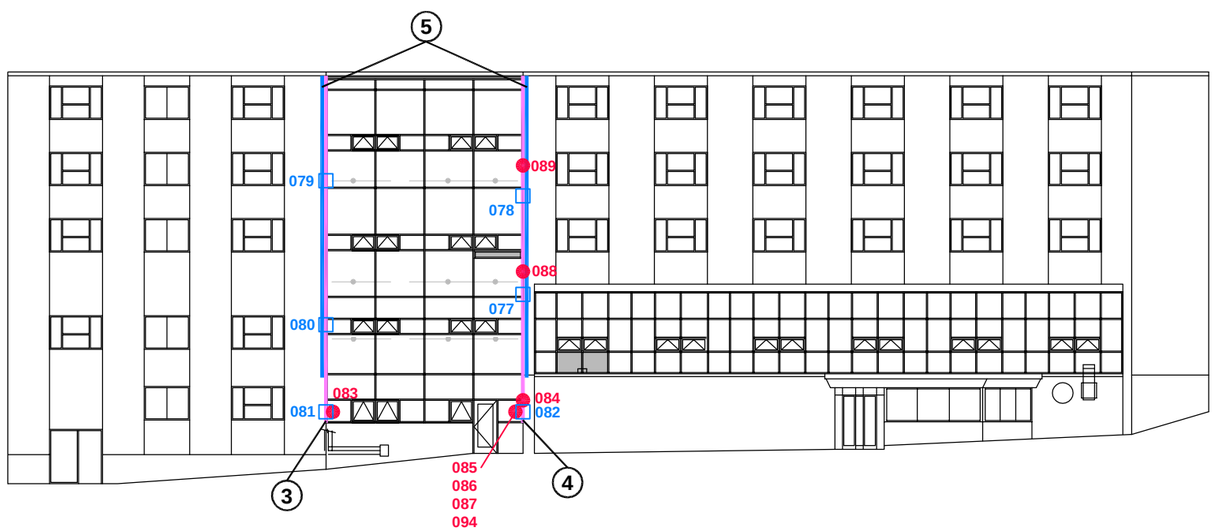
JOB NO: 224164
DATE: NOVEMBER 2011
SCALE: AS NOTED

FIGURE 2-1

\\ANDOVER\Projects\224164 Univ of Southern Maine - Anderson Upton PCBs\wip\Drawings\Final Completion Report\Figure 2-1.dwg



SOUTH ELEVATION



NORTH ELEVATION

LEGEND

- AFFECTED AREA (ENCAPSULATED SURFACE)
- AFFECTED AREA (LOW OCCUPANCY AREA)
- (1) ENCAPSULATED EXTERIOR BRICK BENEATH WINDOW FRAME (VERTICAL JOINT)
- (2) ENCAPSULATED EXTERIOR METAL BRACKET BENEATH WINDOW FRAME (HORIZONTAL JOINT)
- (3) ENCAPSULATED EXTERIOR BRICK (ALL FLOORS) & INTERIOR BRICK (UPPER TWO FLOORS)
- (4) ENCAPSULATED EXTERIOR BRICK (ALL FLOORS), INTERIOR BRICK (UPPER TWO FLOORS), EXTERIOR CONCRETE (GROUND FLOOR), & INTERIOR SURFACES (GROUND FLOOR)
- (5) EXTERIOR BRICK (≥ 10 FEET ABOVE GROUND SURFACE) RESTRICTED TO USE AS A LOW–OCCUPANCY AREA AS DEFINED AT 40 CFR 761.3
- 081 BULK MASONRY SAMPLE LOCATION AND IDENTIFIER
- 084 SURFACE WIPE (ENCAPSULATED POROUS MEDIA) SAMPLE LOCATION AND IDENTIFIER
- 061 SURFACE WIPE (NON–POROUS MEDIA PRIOR TO ENCAPSULATION) SAMPLE LOCATION AND IDENTIFIER

NOTE:

FIGURE MODIFIED FROM SHEET A20.2 "FLOOR PLAN AND EXTERIOR ELEVATIONS UPTON HALL" BY HARRIMAN ARCHITECTS & ENGINEERS (NOV. 16, 2009)

0 20 40

SCALE IN FEET

41 Hutchins Drive
Portland, Maine 04102
800.426.4262 | www.woodardcurran.com

COMMITMENT & INTEGRITY DRIVE RESULTS

WOODARD & CURRAN

UPTON HALL
SAMPLE LOCATIONS AND
ENCAPSULATED SURFACES

DESIGNED BY: ALW
DRAWN BY: EVR
CHECKED BY: JAH
FIGURE 2–2.DWG

UNIVERSITY OF SOUTHERN MAINE
GORHAM, MAINE

FINAL COMPLETION REPORT

JOB NO: 224164
DATE: NOVEMBER 2011
SCALE: AS NOTED

FIGURE 2-2

\\ANDOVER\Projects\224164 Univ of Southern Maine – Anderson Upton PCBs\wip\Drawings\Final Completion Report\Figure 2–2.dwg

APPENDIX A: EPA APPROVAL (JUNE 29, 2011)

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION I
5 POST OFFICE SQUARE, SUITE 100
BOSTON, MASSACHUSETTS 02109-3912

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

JUN 29 2011

Mr. Robert W. Betram
Executive Director of Facilities Management
University of Southern Maine
25 Bedford Street
Portland, Maine 04101

Re: PCB Cleanup and Disposal Approval under 40 CFR §§ 761.61(a) and (c) and § 761.79(h)
Anderson and Upton Halls
University of Southern Maine, Gorham, Maine

Dear Mr. Betram:

This is in response to the University of Southern Maine (USM) Notification[1] for approval of a proposed plan to address PCB contamination located at the buildings known as Anderson Hall at 40 Campus Avenue and Upton Hall at 52 University Way, Gorham, Maine (the Sites). The Sites contains PCB-contaminated materials that exceed the allowable PCB levels under 40 CFR § 761.20(a), § 761.61, and § 761.62. Specifically, PCBs have been found in caulk and in the adjacent building substrate (i.e. brick and concrete).

In its Notification USM has proposed the following PCB cleanup and disposal plan:

- Anderson Hall
    - Remove caulk and window banks in their entirety from the north, west, and south faces of the building and dispose as greater than or equal to ($\geq$ 50 ppm PCB waste in a TSCA approved or hazardous waste landfill
    - Remove caulk, and window and wall components in direct contact with PCB caulk from the east and northeast faces of the building and dispose as $\geq$50 ppm in a TSCA approved or hazardous waste landfill

[1] The Notification was prepared by Woodard & Curran on behalf of the USM to satisfy the requirements under 40 CFR § 761.61(c) and § 761.79(h). Information was submitted dated March 18, 2011 (PCB Remediation Plan) and June 8, 2011 (Response to Comments). These submittals shall be referred to as the "Notification".

- Remove PCB caulk, clean *non-porous surfaces* (i.e., metal tracks) to remove residual caulk, and encapsulate with two coats of an epoxy coating

- Encapsulate *porous surfaces* (i.e., concrete overhang and concrete slab edge) with a liquid barrier system

- Upton Hall

  - Remove ≥50 ppm PCB caulk and *non-porous surfaces* (i.e., metal frames) in direct contact with caulk and dispose in a TSCA approved or hazardous waste landfill

  - Remove PCB caulk between 1 and 50 ppm and *non-porous surfaces* (i.e., glass panes, metal panels, and internal metal frames) and dispose of in accordance with § 761.61(a)(5)(i)(B)(*2*)(*ii*)

  - *Porous surfaces* (e.g., brick and concrete) with > 1 ppm PCB concentration will be encapsulated with an epoxy or acrylic coating, as specified in the Notification

  - Remove ≥50 ppm PCB paint from *non-porous surfaces* (i.e., steel beam) to achieve a cleanup standard of < 10 $\mu g/100\ cm^2$, and dispose of paint in a TSCA approved or hazardous waste landfill

In the event that *non-porous surfaces* (i.e., steel beam) cannot be decontaminated to the PCB cleanup standard of ≤10 $\mu g/100\ cm^2$, USM is proposing to encapsulate the steel beam. If encapsulation is implemented, USM will be required to add this area to the deed restriction and to the long-term monitoring and maintenance implementation plan (MMIP) for the encapsulated surfaces (See Attachment 1, Conditions 17 and 18).

Based on the EPA's review, the information provided in the Notification meets the requirements under § 761.62(a) and § 761.79(h) for abatement of PCB caulk and paint and § 761.61(a) and (c) for decontamination and/or encapsulation of the *porous* and *non-porous surfaces*. EPA finds that the proposed encapsulation of PCB-contaminated *porous* and *non-porous surfaces* should effectively prevent direct exposure of these PCB-contaminated *porous* and *non-porous surfaces* to building users provided the encapsulated surfaces are maintained. As such, EPA may approve the encapsulation under § 761.61(c).

This Approval does not provide for cleanup and disposal of PCB-contaminated soils since additional sampling is necessary to define the nature and extent of the contamination. Upon completion of the investigation of soils at the Sites, USM may request a modification to this Approval to incorporate cleanup of PCB-contaminated soils or USM may submit a separate cleanup and disposal notification under 40 CFR § 761.61 (see Attachment 1, Condition 20).

USM may proceed with its project in accordance with 40 CFR §§ 761.61(a) and (c); § 761.62(a); § 761.79(h); its Notification; and, this Approval, subject to the conditions of Attachment 1. Under this Approval, EPA is reserving its right to require additional investigation or mitigation

measures should the results of the long-term monitoring sampling indicate an unreasonable risk to the building users.

Please be aware that this Approval requires USM to conduct outreach activities for the residents of Anderson and Upton Halls concerning the PCB remediation work. Documentation of the outreach effort shall be submitted to EPA. (Attachment 1, Approval Condition 11)

Please note that USM will be required to record a notation on the deed as required under § 761.61(a)(8) since PCBs at > 1 ppm will remain on the Sites.

Questions and correspondence regarding this Approval should be directed to:

Kimberly N. Tisa, PCB Coordinator (OSRR07-2)
United States Environmental Protection Agency
5 Post Office Square, Suite 100
Boston, Massachusetts 02109-3912
Telephone: (617) 918-1527
Facsimile: (617) 918-0527

EPA shall not consider this project complete until it has received all submittals required under this Approval. Please be aware that upon EPA receipt and review of the submittals, EPA may request any additional information necessary to establish that the work has been completed in accordance with 40 CFR Part 761, the Notification, and this Approval.

Sincerely,

James T. Owens III, Director
Office of Site Remediation & Restoration

cc Jeffrey Hamel, Woodard & Curran
MEDEP
File

Attachment 1 – PCB Approval Conditions

ATTACHMENT 1:

PCB CLEANUP AND DISPOSAL APPROVAL CONDITIONS
ANDERSON HALL AND UPTON HALL (the Sites)
UNIVERSITY OF SOUTHERN MAINE
GORHAM, MAINE

GENERAL CONDITIONS

1. This Approval is granted under the authority of Section 6(e) of the Toxic Substances Control Act (TSCA), 15 U.S.C. § 2605(e), and the PCB regulations at 40 CFR Part 761, and applies solely to the *PCB bulk product waste* and the *PCB remediation waste* located at the Sites and identified in the Notification.

2. University of Southern Maine (USM) shall conduct on-site activities in accordance with the conditions of this Approval and with the Notification.

3. In the event that the cleanup plan described in the Notification differs from the conditions specified in this Approval, the conditions of this Approval shall govern.

4. The terms and abbreviations used herein shall have the meanings as defined in 40 CFR § 761.3 unless otherwise defined within this Approval.

5. USM must comply with all applicable federal, state and local regulations in the storage, handling, and disposal of all PCB wastes, including PCBs, PCB Items and decontamination wastes generated under this Approval. In the event of a new spill during response actions, USM shall contact EPA within 24 hours for direction on PCB cleanup and sampling requirements.

6. USM is responsible for the actions of all officers, employees, agents, contractors, subcontractors, and others who are involved in activities conducted under this Approval. If at any time USM has or receives information indicating that USM or any other person has failed, or may have failed, to comply with any provision of this Approval, it must report the information to EPA in writing within 24 hours of having or receiving the information.

7. This Approval does not constitute a determination by EPA that the transporters or disposal facilities selected by USM are authorized to conduct the activities set forth in the Notification. USM is responsible for ensuring that its selected transporters and disposal facilities are authorized to conduct these activities in accordance with all applicable federal, state and local statutes and regulations.

8. This Approval does not: 1) waive or compromise EPA's enforcement and regulatory authority; 2) release USM from compliance with any applicable requirements of federal, state or local law; or 3) release USM from liability for, or otherwise resolve, any violations of federal, state or local law.

NOTIFICATION AND CERTIFICATION CONDITIONS

9. This Approval may be revoked if the EPA does not receive written notification from USM of its acceptance of the conditions of this Approval within 10 business days of receipt.

10. USM shall submit the following information for EPA review and/or approval:

    a. A certification signed by its selected abatement/demolition contractor, stating that the contractor(s) has read and understands the Notification, and agrees to abide by the conditions specified in this Approval;

    b. A contractor work plan, prepared and submitted by the selected demolition or abatement contractor(s) describing the containment and air monitoring that will be employed during abatement activities. This work plan should also include information on how and where wastes will be stored and disposed of, and on how field equipment will be decontaminated; and,

    c. A certification signed by the selected analytical laboratory, stating that the laboratory has read and understands the extraction and analytical method requirements and quality assurance requirements specified in the Notification and in this Approval.

DECONTAMINATION AND DISPOSAL CONDITIONS

11. USM shall conduct outreach activities for the Anderson Hall and Upton Hall residents on the PCB remediation work. USM shall submit information on its outreach activities within 30 days of receipt of this Approval.

12. To the maximum extent practical, engineering controls, such as barriers, and removal techniques, such as the use of HEPA ventilated tools, shall be utilized during removal processes. In addition, to the maximum extent possible, disposable equipment and materials, including PPE, will be used to reduce the amount of decontamination necessary.

13. All visible residues of PCB-contaminated caulk and paint (i.e. *PCB bulk product waste*) shall be removed as described in the Notification.

14. The decontamination standard for *non-porous surfaces* (i.e., steel beams) shall be ≤ 10 μg/100 cm^2 PCBs.

    a. All post-decontamination verification sampling of *non-porous surfaces* shall be performed on a surface area basis by the standard wipe test as specified in 40 CFR § 761.123 (i.e., μg/100 cm^2) and at the frequency specified in the Notification.

    b. For decontaminated *non-porous surfaces* that have PCB concentrations exceeding the decontamination standard, USM may conduct additional decontamination to achieve the required decontamination standard or must store and dispose of these wastes as TSCA-regulated waste in accordance with 40 CFR Part 761.

    c. Chemical extraction for PCBs shall be conducted using Methods 3500B/3540C of SW-846; and, chemical analysis for PCBs shall be conducted using Method 8082 of SW-846, unless another extraction/analytical method(s) is validated according to Subpart Q.

    d. In the event that *nonporous surfaces* (i.e. steel beam) cannot be decontaminated to the standard of ≤ 10 μg/100 cm^2 PCBs. the encapsulation alternative, as described in the Notification shall be implemented.

15. Following encapsulation of PCB-contaminated *porous surfaces* and *non-porous surfaces* post-encapsulation sampling shall be conducted to determine the effectiveness of the encapsulation.

    a. Wipe sampling of encapsulated surfaces shall be performed on a surface area basis by the standard wipe test as specified in 40 CFR § 761.123 (i.e. μg/100 cm^2). Chemical extraction for PCBs shall be conducted using Method 3500B/3540C of SW-846; and, chemical analysis for PCBs shall be conducted using Method 8082 of SW-846, unless another extraction or analytical method(s) is validated according to Subpart Q.

    b. In the event that the PCB concentration of any wipe sample is greater than (>) 1 μg/100 cm^2, USM shall contact EPA for further discussion and direction on alternatives.

16. PCB waste (at any concentration) generated as a result of the activities described in the Notification, excluding any decontaminated materials, shall be marked in accordance with CFR 40 CFR § 761.40; stored in a manner consistent with 40 CFR § 761.65; and, disposed of in accordance with 40 CFR § 761.61 or § 761.62, unless otherwise specified below.

a. Decontamination wastes and residues shall be disposed of in accordance with 40 CFR § 761.79(g)(6).

b. Moveable equipment, tools, and sampling equipment shall be decontaminated in accordance with either 40 CFR § 761.79(b)(3)(i)(A), § 761.79(b)(3)(ii)(A), or § 761.79(c)(2).

c. PCB-contaminated water generated during decontamination or dewatering shall be decontaminated in accordance with 40 CFR § 761.79(b)(1) or disposed of under § 761.60.

DEED RESTRICTION AND USE CONDITIONS

17. Within thirty (45) days of completing the activities described in the Notification and in the Approval, USM shall submit for EPA review and approval, a draft deed restriction for the Sites. The deed restriction shall include: a description of the extent and levels of contamination at the Sites following abatement; a description of the actions taken at the Sites; a description of the use restrictions for the Sites; and the long-term monitoring and maintenance requirements on the Sites. Within seven (7) days of receipt of EPA's approval of the draft deed restriction, USM shall record the deed restriction. A copy of this Approval shall be attached to the deed restriction.

INSPECTION, MODIFICATION AND REVOCATION CONDITIONS

18. Within 60 days of completion of the work authorized under this Approval, USM shall submit for EPA's review and approval, a detailed monitoring and maintenance implementation plan (MMIP) for the surface barriers. USM shall incorporate any changes to the MMIP required by EPA.

    a. The MMIP shall include: a description of the activities that will be conducted, including inspection criteria, frequency, and routine maintenance activities; sampling protocols, sampling frequency, and analytical criteria; and, reporting requirements, as applicable

    b. The MMIP shall include a communications component which details how the maintenance and monitoring results will be communicated to the Site users, including teachers, parents, student, other on-site workers, and interested stakeholders.

    c. The MMIP also shall include a worker training component for maintenance workers or for any person that will be conducting work that could impact the barriers encapsulating the PCB-contaminated surfaces.

d. USM shall submit the results of these long-term monitoring and maintenance activities to EPA. Based on its review of the results, EPA may determine that modification to the MMIP is necessary in order to monitor and/or evaluate the long-term effectiveness of the barriers.

e. Activities required under the MMIP shall be conducted until such time that EPA determines, in writing, that such activities are no longer necessary.

19. USM shall allow any authorized representative of the Administrator of the EPA to inspect the Sites and to inspect records and take samples as may be necessary to determine compliance with the PCB regulations and this Approval. Any refusal by USM to allow such an inspection (as authorized by Section 11 of TSCA) shall be grounds for revocation of this Approval.

20. Any modification(s) in the plan, specifications, or information submitted by USM, contained in the Notification, and forming the basis upon which this Approval has been issued, must receive prior written approval from the EPA. USM shall inform the EPA of any modification, in writing, at least ten (10) days prior to such change. No action may be taken to implement any such modification unless the EPA has approved of the modification, in writing. The EPA may request additional information in order to determine whether to approve the modification.

21. If such modification involves a change in the use of the Sites which results in exposures not considered in the Application, the EPA may revoke, suspend, and/or modify this Approval upon finding that this risk-based cleanup and disposal action may pose an unreasonable risk of injury to health or the environment due to the change in use. EPA may take similar action if the EPA does not receive requested information needed from USM to make a determination regarding potential risk.

22. Any misrepresentation or omission of any material fact in the Notification or in any records or reports may result in the EPA's revocation, suspension and/or modification of the Approval, in addition to any other legal or equitable relief or remedy the EPA may choose to pursue.

RECORDKEEPING AND REPORTING CONDITIONS

23. USM shall prepare and maintain all records and documents required by 40 CFR Part 761, including but not limited to the records required under Subparts J and K. A written record of the cleanup and disposal and the analytical sampling shall be established and maintained by USM in one centralized location, until such time as EPA approves in writing a request for an alternative disposition of such records. All records shall be made available for inspection to authorized representatives of EPA.

24. As required under Condition 18 of this Approval, USM shall submit the results of the long-term monitoring and maintenance activities to EPA as specified in the final MMIP to be approved by EPA

25. USM shall submit a final report to the EPA within 90 days of completion of the activities authorized under this Approval. At a minimum, this final report shall include: a short narrative of the project activities; characterization and confirmation sampling analytical results; copies of the accompanying analytical chains of custody; field and laboratory quality control/quality assurance checks; an estimate of the quantity of PCB waste disposed of and the size of the PCB cleanup area(s); copies of manifests and bills of lading; and copies of certificates of disposal or similar certifications issued by the disposer. The Report shall also include a copy of the recorded deed restriction and a certification signed by a USM official verifying that the authorized activities have been implemented in accordance with this Approval and the Notification.

26. Required submittals shall be mailed to:

    Kimberly N. Tisa, PCB Coordinator
    United States Environmental Protection Agency
    5 Post Office Square, Suite 100 – (OSRR07-2)
    Boston, Massachusetts 02109-3912
    Telephone: (617) 918-1527
    Facsimile: (617) 918-0527

27. No record, report or communication required under this Approval shall qualify as a self-audit or voluntary disclosure under EPA audit, self-disclosure or penalty policies.

****

END OF ATTACHMENT 1

APPENDIX B: LABORATORY ANALYTICAL REPORTS

analytics environmental laboratory LLC

195 Commerce Way Suite E
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906
www.analyticslab.com

June 14, 2011

Ms. Amy Wallace
Woodard & Curran
35 NE Business Center Suite 180
Andover MA 01810

RE: Analytical Results Case Narrative
Analytics # 70116
USM-Gorham Project No: 224164

Dear Ms. Wallace;

Enclosed please find the analytical results for samples submitted for the above-mentioned project. The attached Cover Page lists the sample IDs, Lab tracking numbers and collection dates for the samples included in this deliverable.

Samples were analyzed Polychlorinated Biphenyls (PCBs) by EPA Method 8082.

Unless otherwise noted in the Non-conformance Summary listed below, all of the quality control (QC) criteria including initial calibration, calibration verification, surrogate recovery, holding time and method accuracy/precision for these analyses were within acceptable limits.

This Level II data package has been assembled in the following order:

Case Narrative/Non-Conformance Summary
Sample Log Sheet - Cover Page
PCB Form 1 Data Sheet for Samples and Blanks
Chromatograms
PCB Form 10 Confirmation Results
PCB Form 3 MS/MSD (LCS) Recoveries
Chain of Custody (COC) Forms

QC NON-CONFORMANCE SUMMARY

Sample Receipt:
No exceptions.

PCBs by EPA Method 8082:
No results were reported below the quanitation limit.

Sample 70116-1 was analyzed at a dilution due to concentrations of PCBs that exceeded the calibration range of the instrument.

If you have any questions on these results, please do not hesitate to contact me.

Sincerely,
ANALYTICS Environmental Laboratory, LLC

Stephen L. Knollmeyer
Laboratory Director

analytics environmental laboratory LLC

195 Commerce Way Suite E
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906
www.analyticslab.com

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

Report Number: 70116

Revision: Rev. 0

Re: USM Gorham PCBs (Project No: 224164)

Enclosed are the results of the analyses on your sample(s). Samples were received on 08 June 2011 and analyzed for the tests listed. Samples were received in acceptable condition, with the exceptions noted below or on the chain of custody. These results pertain to samples as received by the laboratory and for the analytical tests requested on the chain of custody. The results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. Please see individual reports for specific methodologies and references.

Lab Number	Sample Date	Station Location	Analysis	Comments
70116-1	06/01/11	AH-VBC-034	EPA 8082 (PCBs only)	
70116-2	06/06/11	AH-VBC-035	EPA 8082 (PCBs only)	
70116-3	06/07/11	AH-VWE-036	EPA 8082 (PCBs only)	
70116-4	06/07/11	AH-VWE-037	EPA 8082 (PCBs only)	
70116-5	06/07/11	AH-VWC-038	EPA 8082 (PCBs only)	
70116-6	06/07/11	AH-VWC-039	EPA 8082 (PCBs only)	

Sample Receipt Exceptions: None

Analytics Environmental Laboratory is certified by the states of New Hampshire, Maine, Massachusetts, Connecticut, Rhode Island, Virginia, Maryland, and is accredited by the Deparment of Defense (DOD) ELAP program. A list of actual certified parameters is available upon request.

If you have any questions on these results, please do not hesitate to contact us.

Authorized signature _____
Stephen L. Knollmeyer Lab. Director

Date 6/14/2011

This report shall not be reproduced, except in full, without the written consent of Analytics Environmental Laboratory, LLC.

Surrogate Compound Limits

Matrix:	Aqueous	Solid	
Units:	% Recovery	% Recovery	Method
Volatile Organic Compounds - Drinking Water			
1,4-Difluorobenzene	70-130		EPA 524.2
Bromofluorobenzene	70-130		
1,2-Dichlorobenzene-d4	70-130		
Volatile Organic Compounds			
1,2-Dichloroethane-d4	70-120	70-120	EPA 624/8260B
Toluene-d8	85-120	85-120	
Bromofluorobenzene	75-120	75-120	
Semi-Volatile Organic Compounds			
2-Fluorophenol	20-110	35-105	EPA 625/8270C
d5-Phenol	15-110	40-100	
d5-nitrobenzene	40-110	35-100	
2-Fluorobiphenyl	50-110	45-105	
2,4,6-Tribromophenol	40-110	40-125	
d14-p-terphenyl	50-130	30-125	
PAH's by SIM			
d5-nitrobenzene	21-110	35-110	EPA 8270C
2-Fluorobiphenyl	36-121	45-105	
d14-p-terphenyl	33-141	30-125	
Pesticides and PCBs			
2,4,5,6-Tetrachloro-m-xylene (TCX)	46-122	40-130	EPA 608/8082
Decachlorobiphenyl (DCB)	40-135	40-130	
Herbicides			
Dichloroacetic acid (DCAA)	30-150	30-150	
Gasoline Range Organics/TPH Gasoline			
Trifluorotoluene TFT (FID)	60-140	60-140	MEDEP 4217/EPA 8015
Bromofluorobenzene (BFB) (FID)	60-140	60-140	
Trifluorotoluene TFT (PID)	60-140	60-140	
Bromofluorobenzene (BFB) (PID)	60-140	60-140	
Diesel Range Organics/TPH Diesel			
m-terphenyl	60-140	60-140	MEDEP 4125/EPA 8015/CT ETPH
Volatile Petroleum Hydrocarbons			
2,5-Dibromotoluene (PID)	70-130	70-130	MADEP VPH May 2004 Rev1.1
2,5-Dibromotoluene (FID)	70-130	70-130	
Extracatable Petroleum Hydrocarbons			
1-chloro-octadecane (aliphatic)	40-140	40-140	MADEP EPH May 2004 Rev1.1
o-Terphenyl (aromatic)	40-140	40-140	
2-Fluorobiphenyl (Fractionation)	40-140	40-140	
2-Bromonaphthalene (fractionation)	40-140	40-140	

PCB
DATA SUMMARIES

analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

June 14, 2011

SAMPLE DATA

Lab Sample ID: B060811PSOX
Matrix: Wipe
Percent Solid: N/A
Dilution Factor: 1.0
Collection Date:
Lab Receipt Date:
Extraction Date: 06/08/11
Analysis Date: 06/09/11

CLIENT SAMPLE ID

Project Name: USM Gorham PCBs
Project Number: 224164
Field Sample ID: Lab QC

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	U
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	83	%
Decachlorobiphenyl	71	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

PCB Report

Authorized signature

analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

June 14, 2011

SAMPLE DATA

Lab Sample ID: B060811PSOX
Matrix: Soil
Percent Solid: N/A
Dilution Factor: 1.0
Collection Date:
Lab Receipt Date:
Extraction Date: 06/08/11
Analysis Date: 06/09/11

CLIENT SAMPLE ID

Project Name: USM Gorham PCBs
Project Number: 224164
Field Sample ID: Lab QC

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	33	U
PCB-1221	33	U
PCB-1232	33	U
PCB-1242	33	U
PCB-1248	33	U
PCB-1254	33	U
PCB-1260	33	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	83	%
Decachlorobiphenyl	71	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

COMMENTS: Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Results are expressed on a dry weight basis.

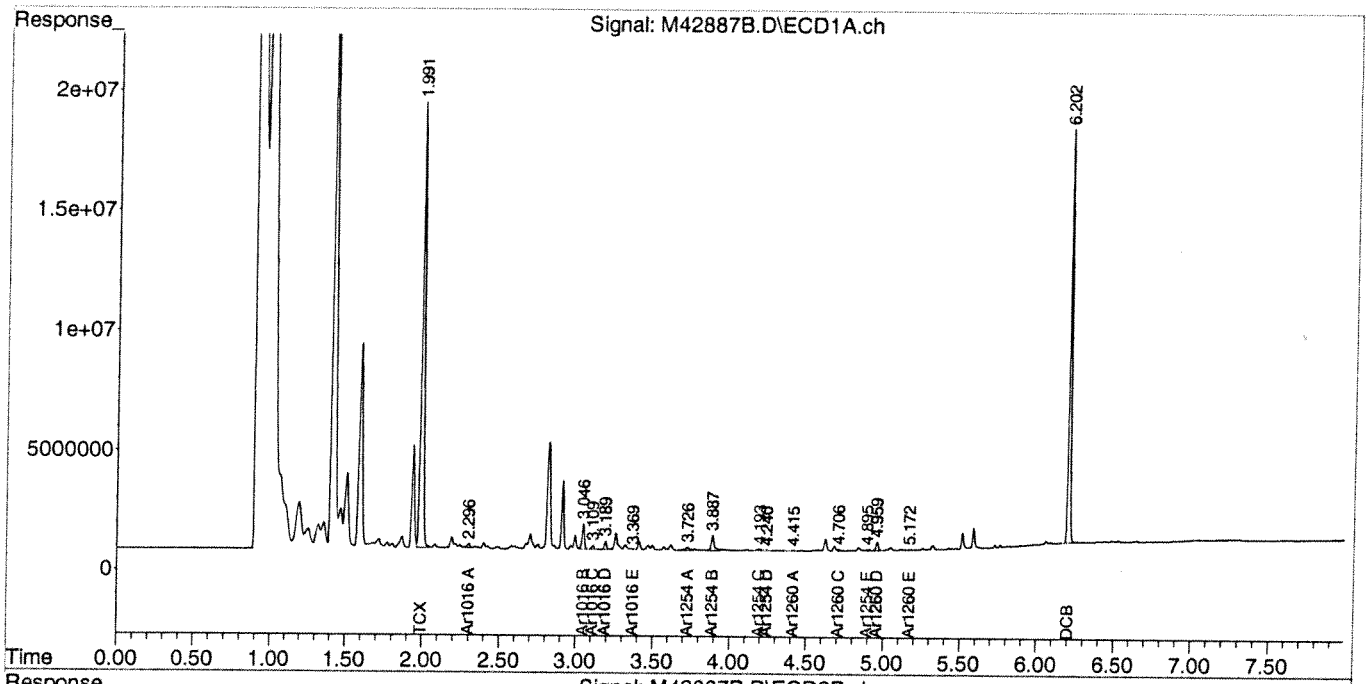
PCB Report

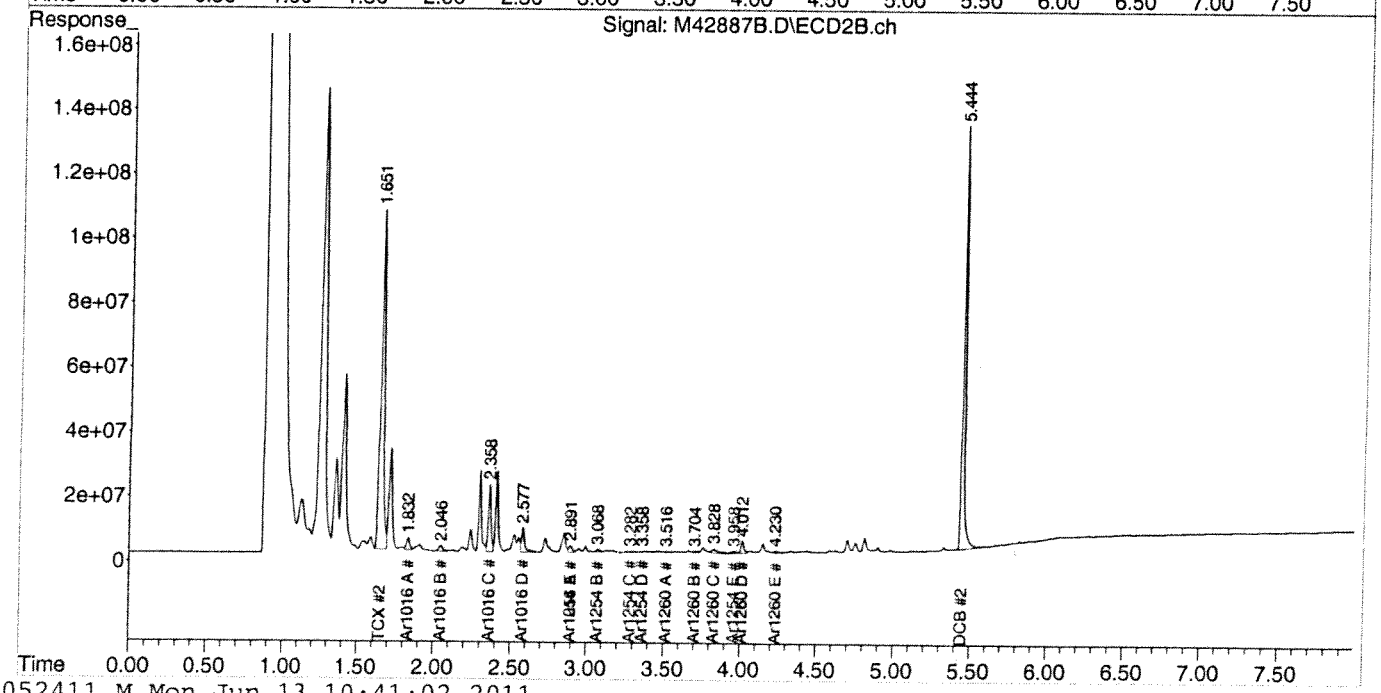
Authorized signature

Data Path : C:\msdchem\1\DATA\060911-M\
Data File : M42887B.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Jun 2011 6:13 pm
Operator : JK
Sample : B060811PSOX,,A/C
Misc : SOIL
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 13 10:40:52 2011
Quant Method : C:\msdchem\1\METHODS\PCB052411.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Mon Jun 06 12:11:42 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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June 14, 2011

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: USM Gorham PCBs

Project Number: 224164

Field Sample ID: Lab QC

Lab Sample ID: B061311PSOX
Matrix: Soil
Percent Solid: N/A
Dilution Factor: 1.0
Collection Date:
Lab Receipt Date:
Extraction Date: 06/13/11
Analysis Date: 06/14/11

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	33	U
PCB-1221	33	U
PCB-1232	33	U
PCB-1242	33	U
PCB-1248	33	U
PCB-1254	33	U
PCB-1260	33	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	73	%
Decachlorobiphenyl	64	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

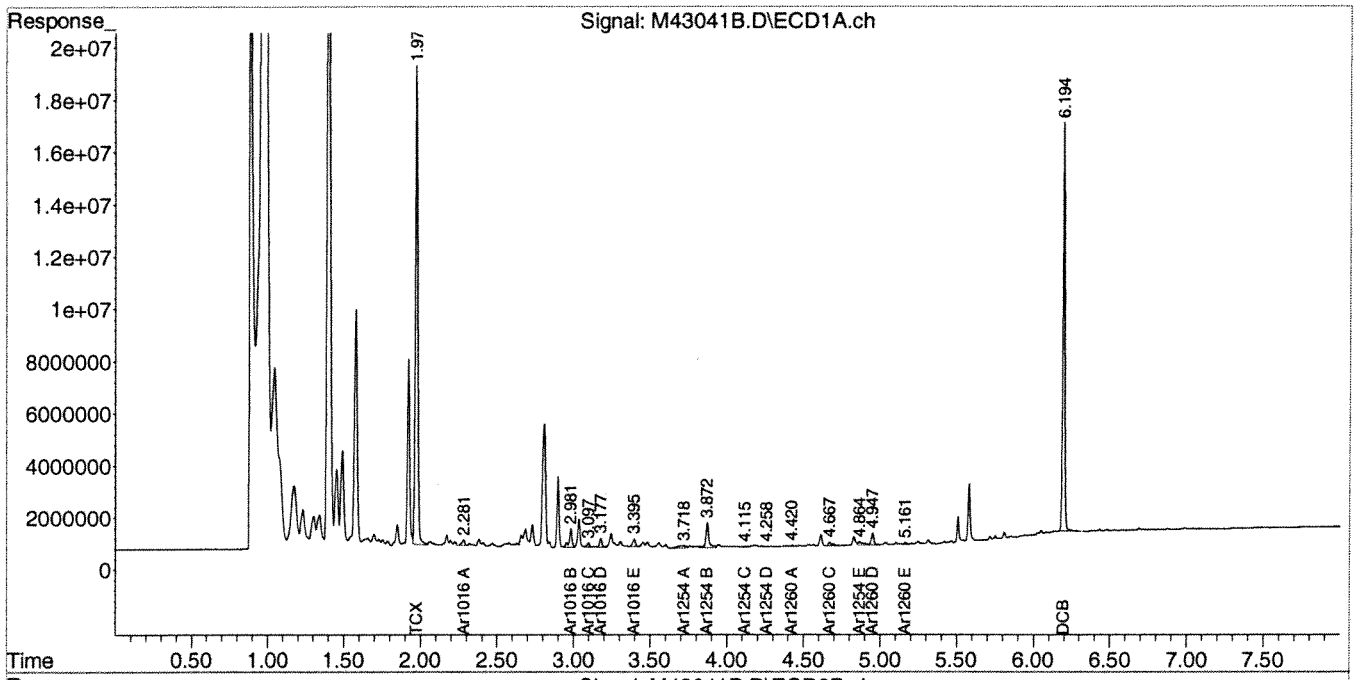
Authorized signature

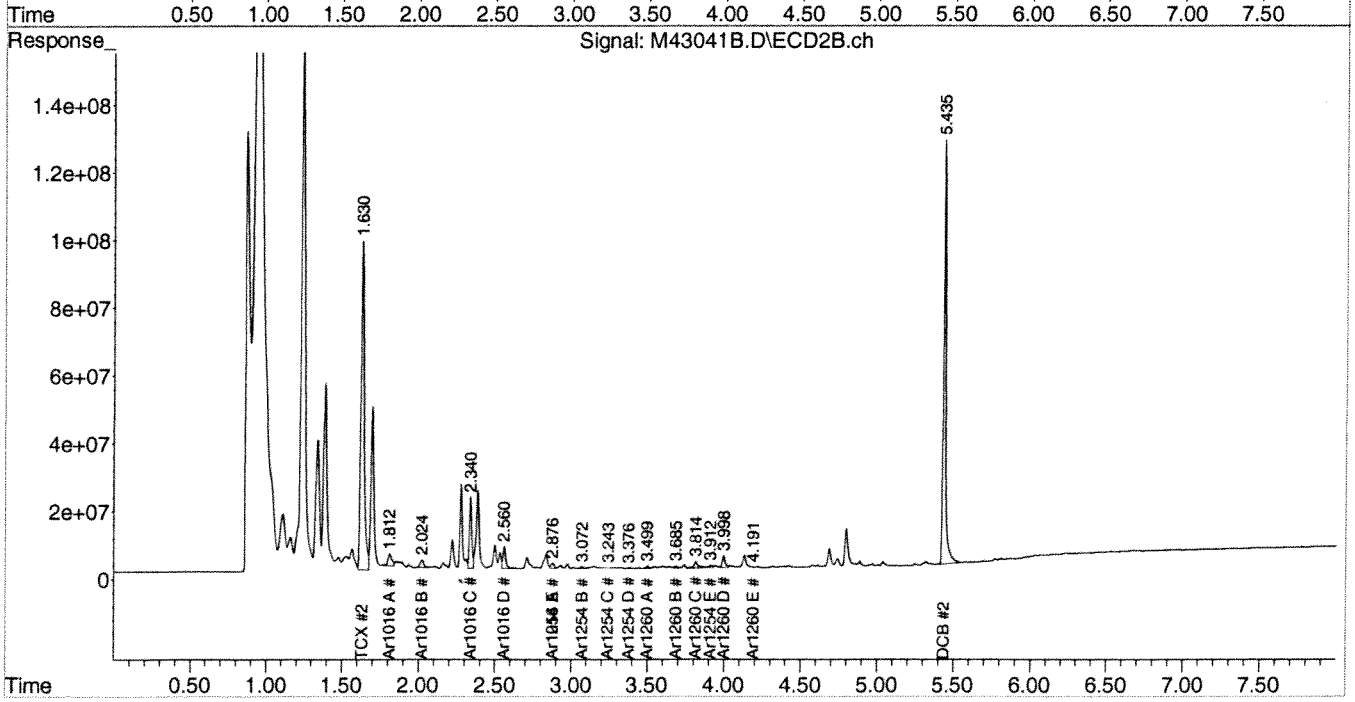
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\061411-M\
Data File : M43041B.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jun 2011 11:23 am
Operator : JK
Sample : B061311PSOX,,A/C
Misc : SOIL
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 14 13:06:09 2011
Quant Method : C:\msdchem\1\METHODS\PCB052411.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Mon Jun 13 11:26:25 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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June 14, 2011

SAMPLE DATA

Lab Sample ID: 70116-1
Matrix: Solid
Percent Solid: 99
Dilution Factor: 19
Collection Date: 06/01/11
Lab Receipt Date: 06/08/11
Extraction Date: 06/08/11
Analysis Date: 06/14/11

CLIENT SAMPLE ID

Project Name: USM Gorham PCBs
Project Number: 224164
Field Sample ID: AH-VBC-034

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	627	U
PCB-1221	627	U
PCB-1232	627	U
PCB-1242	627	U
PCB-1248	627	U
PCB-1254	627	**12000**
PCB-1260	627	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	*	%
Decachlorobiphenyl	*	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS: Results are expressed on a dry weight basis.
* The surrogates were diluted out.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 70116
Sample: 70116-1,1:20,,A/C
Data File: M43046.D
Dilution Factor: 19.2

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/kg)	SAMPLE RESULT (ug/kg)	RPD	#
PCB 1254	12043	11362	5.8	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

Comments: _____

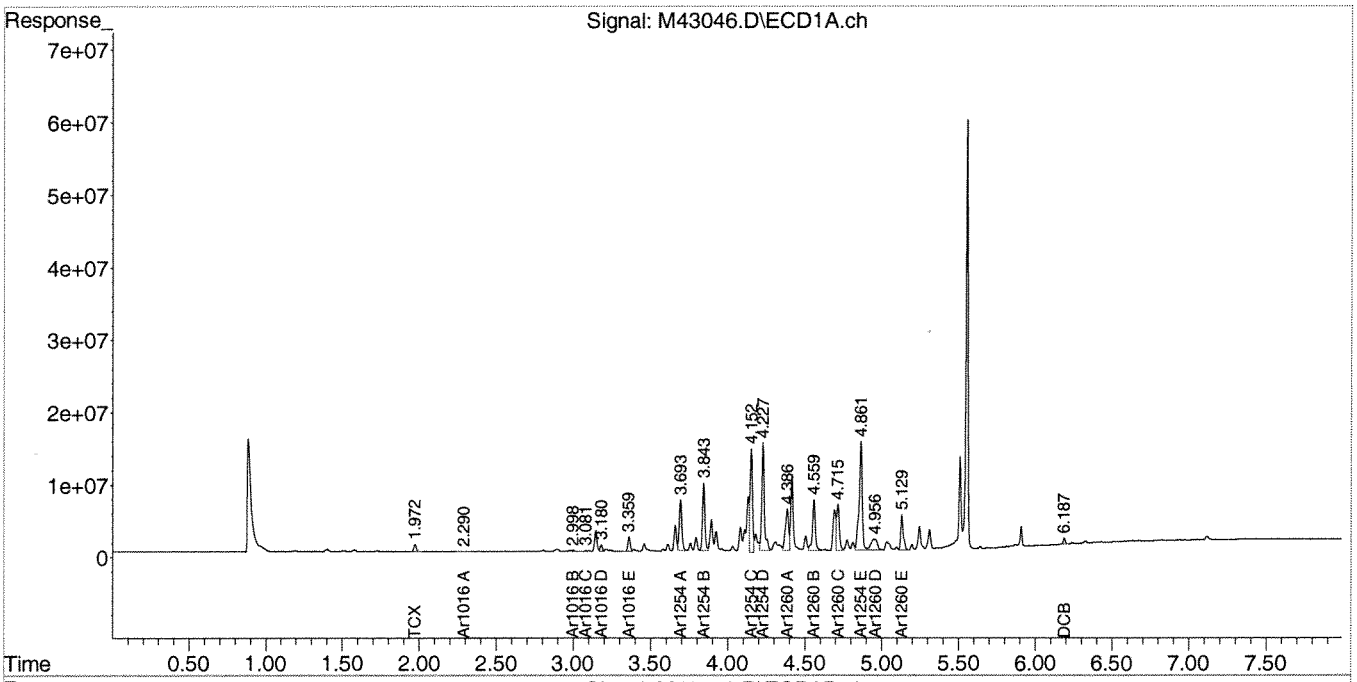
PCB FORM 10

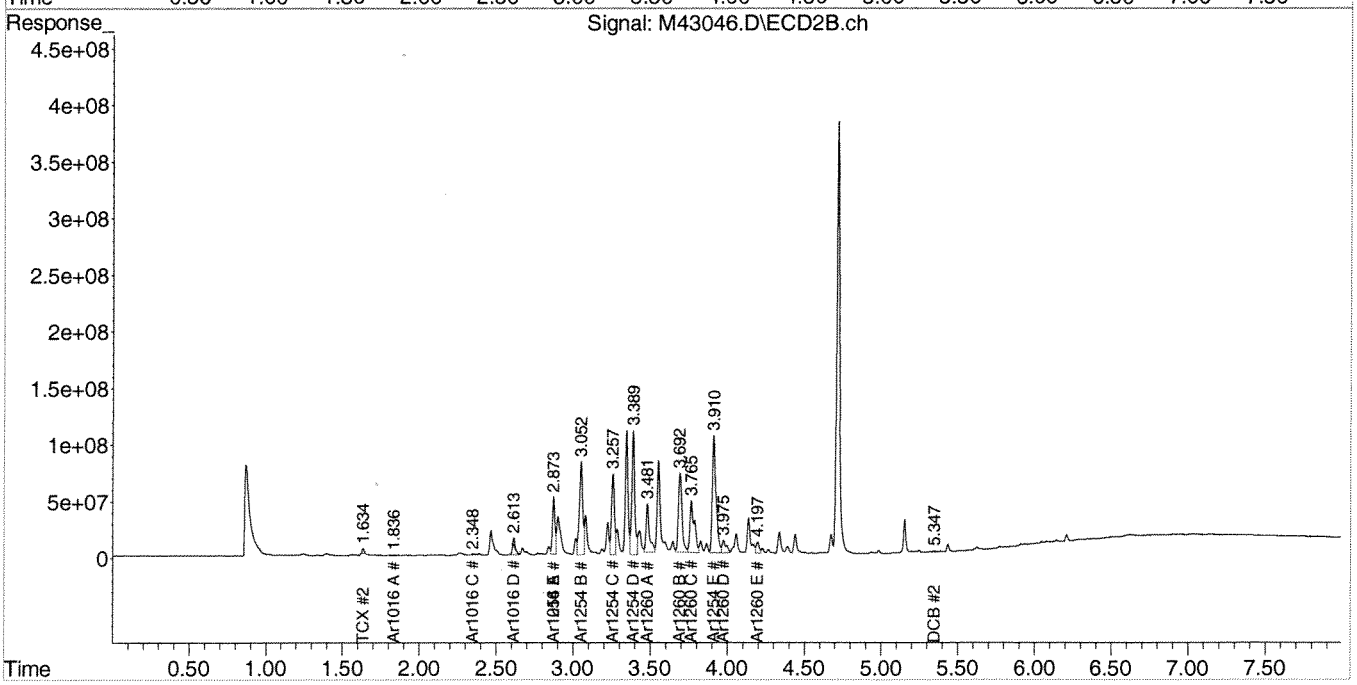
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\061411-M\
Data File : M43046.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Jun 2011 12:14 pm
Operator : JK
Sample : 70116-1,1:20,,A/C
Misc : SOIL
ALS Vial : 11 Sample Multiplier: 1

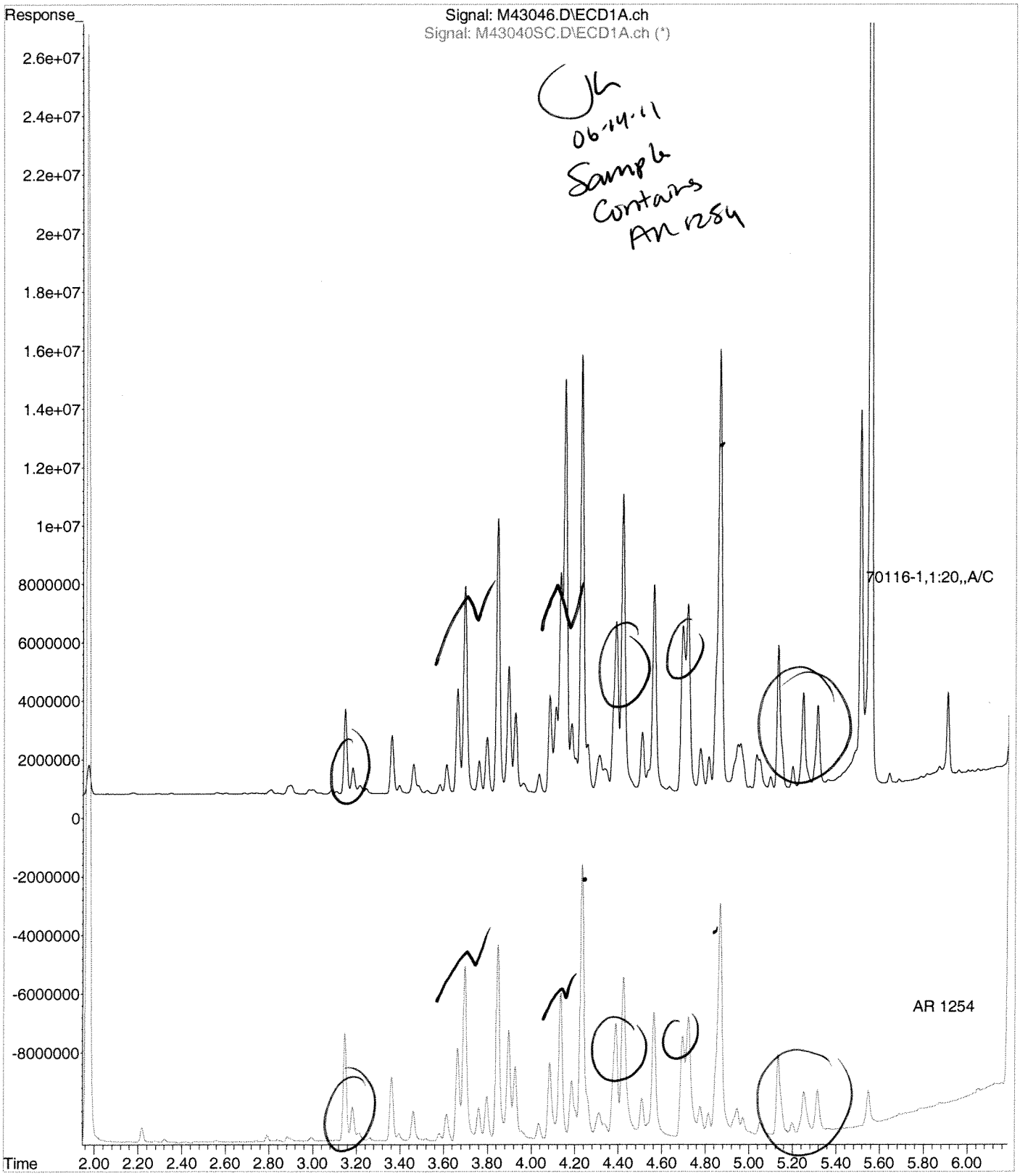
Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 14 13:18:11 2011
Quant Method : C:\msdchem\1\METHODS\PCB052411.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Mon Jun 13 11:26:25 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





File :C:\msdchem\1\DATA\061411-M\M43046.D
Operator : JK
Acquired : 14 Jun 2011 12:14 pm using AcqMethod PEST.M
Instrument : Instrument M
Sample Name: 70116-1,1:20,,A/C
Misc Info : SOIL
Vial Number: 11



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June 14, 2011

SAMPLE DATA

Lab Sample ID: 70116-2
Matrix: Solid
Percent Solid: 99
Dilution Factor: 1.0
Collection Date: 06/06/11
Lab Receipt Date: 06/08/11
Extraction Date: 06/08/11
Analysis Date: 06/09/11

CLIENT SAMPLE ID

Project Name: USM Gorham PCBs
Project Number: 224164
Field Sample ID: AH-VBC-035

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	33	U
PCB-1221	33	U
PCB-1232	33	U
PCB-1242	33	U
PCB-1248	33	U
PCB-1254	33	**659**
PCB-1260	33	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	73	%
Decachlorobiphenyl	72	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

COMMENTS: Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 70116
Sample: 70116-2,,A/C
Data File: M42900.D
Dilution Factor: 1.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/kg)	SAMPLE RESULT (ug/kg)	RPD	#
PCB 1254	659	656	0.5	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

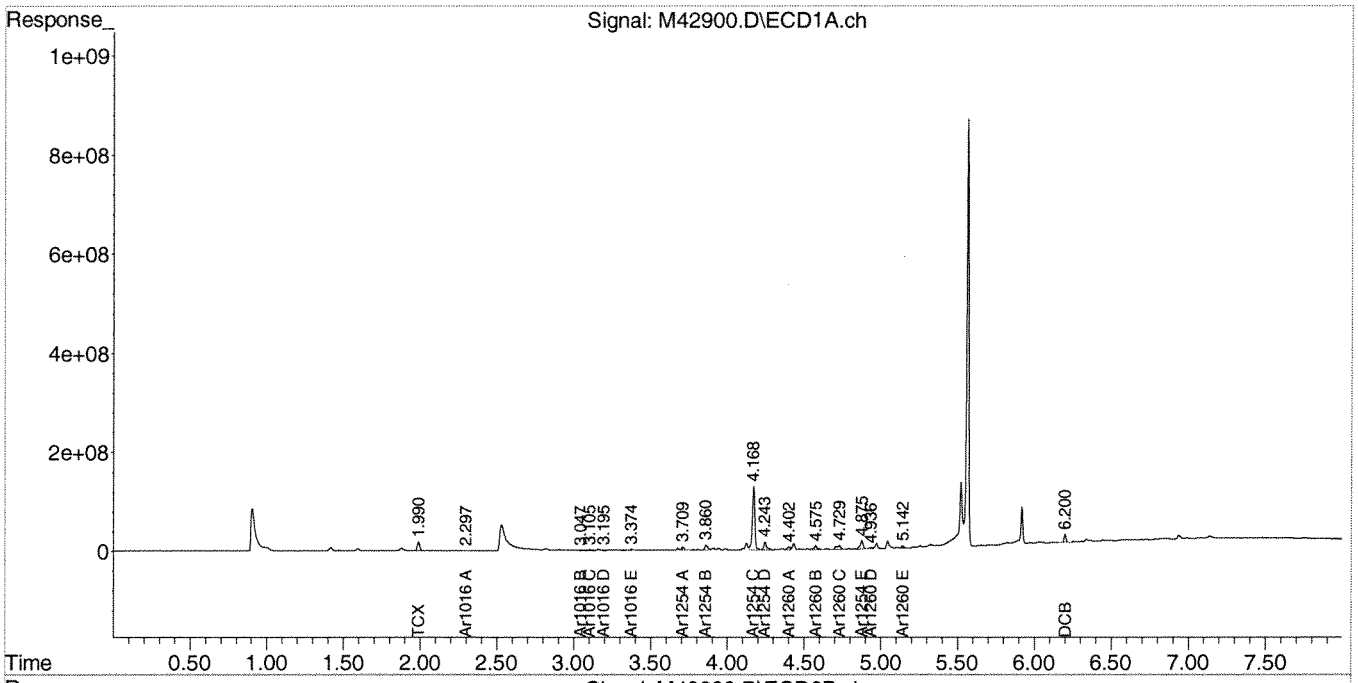
Comments: _____

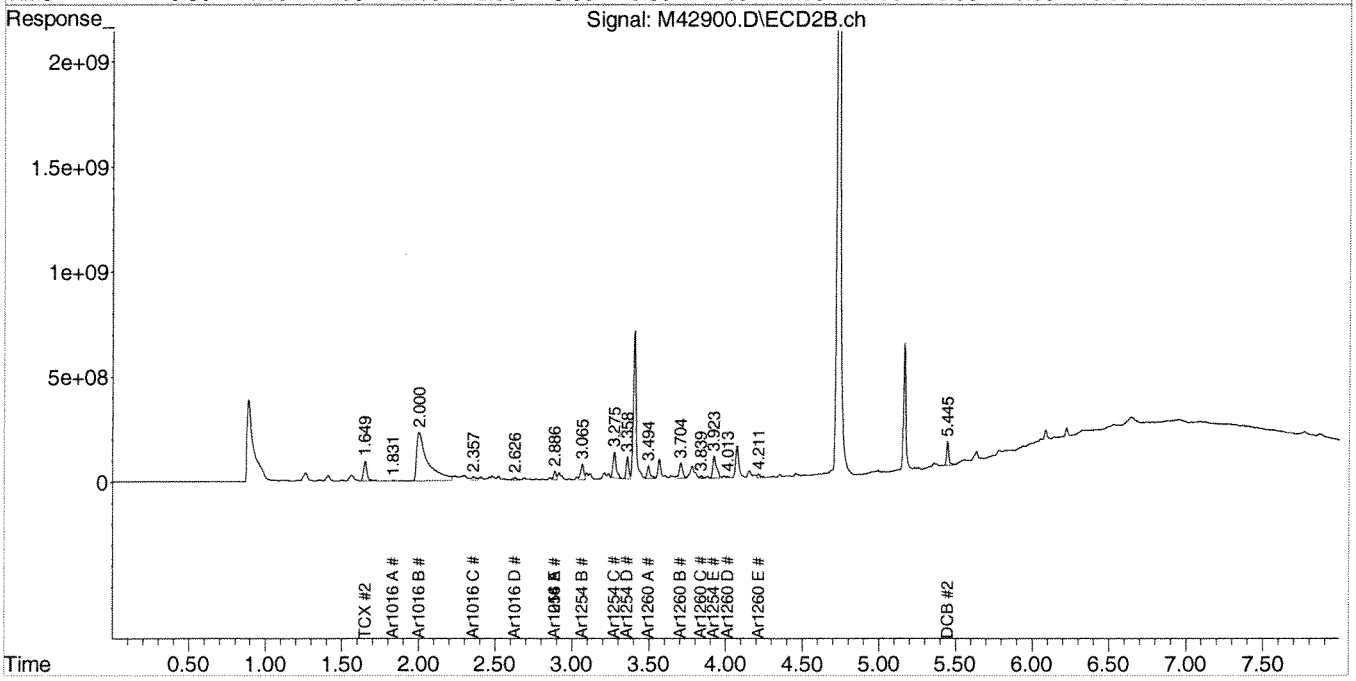
PCB FORM 10

Data Path : C:\msdchem\1\DATA\060911-M\
Data File : M42900.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Jun 2011 8:26 pm
Operator : JK
Sample : 70116-2,,A/C
Misc : SOIL
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 14 09:29:24 2011
Quant Method : C:\msdchem\1\METHODS\PCB052411.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Mon Jun 06 12:11:43 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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June 14, 2011

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: USM Gorham PCBs

Project Number: 224164

Field Sample ID: AH-VWE-036

Lab Sample ID: 70116-3
Matrix: Wipe
Percent Solid: N/A
Dilution Factor: 1.0
Collection Date: 06/07/11
Lab Receipt Date: 06/08/11
Extraction Date: 06/08/11
Analysis Date: 06/09/11

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit μg/wipe	Results μg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	U
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	79	%
Decachlorobiphenyl	70	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

PCB Report

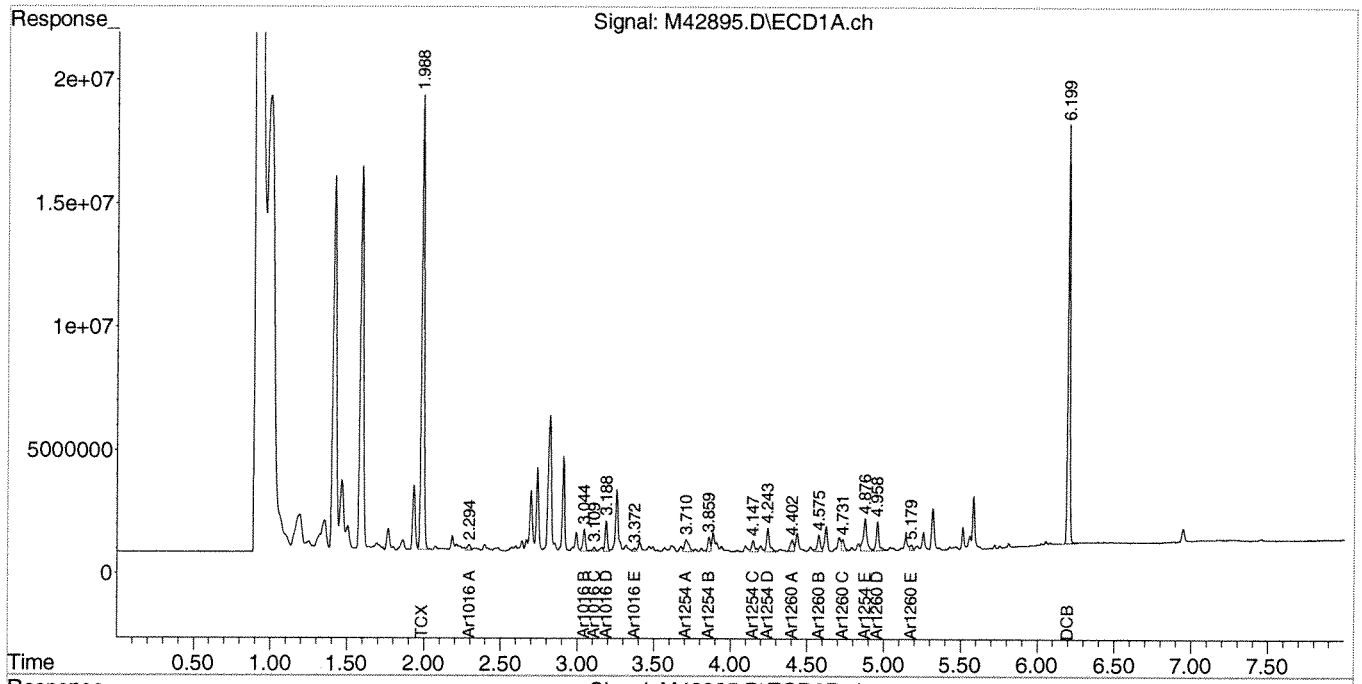
Authorized signature

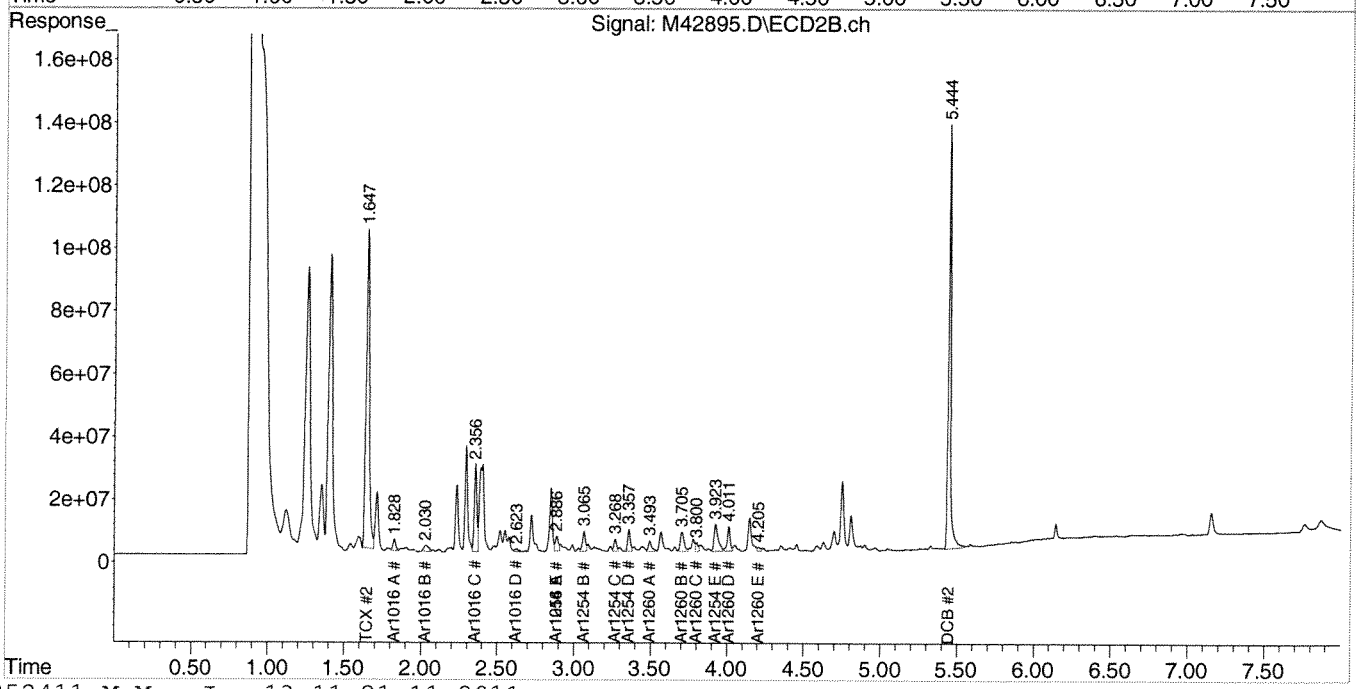
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\060911-M\
Data File : M42895.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Jun 2011 7:35 pm
Operator : JK
Sample : 70116-3,,A/C
Misc : SOIL
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 13 11:21:03 2011
Quant Method : C:\msdchem\1\METHODS\PCB052411.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Mon Jun 06 12:11:43 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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June 14, 2011

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: USM Gorham PCBs

Project Number: 224164

Field Sample ID: AH-VWE-037

Lab Sample ID: 70116-4
Matrix: Wipe
Percent Solid: N/A
Dilution Factor: 1.0
Collection Date: 06/07/11
Lab Receipt Date: 06/08/11
Extraction Date: 06/08/11
Analysis Date: 06/09/11

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	**0.9**
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	91	%
Decachlorobiphenyl	71	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 70116
Sample: 70116-4,,A/C
Data File: M42896.D
Dilution Factor: 1.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/wipe)	SAMPLE RESULT (ug/wipe)	RPD	#
PCB 1254	0.84	0.95	12.2	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

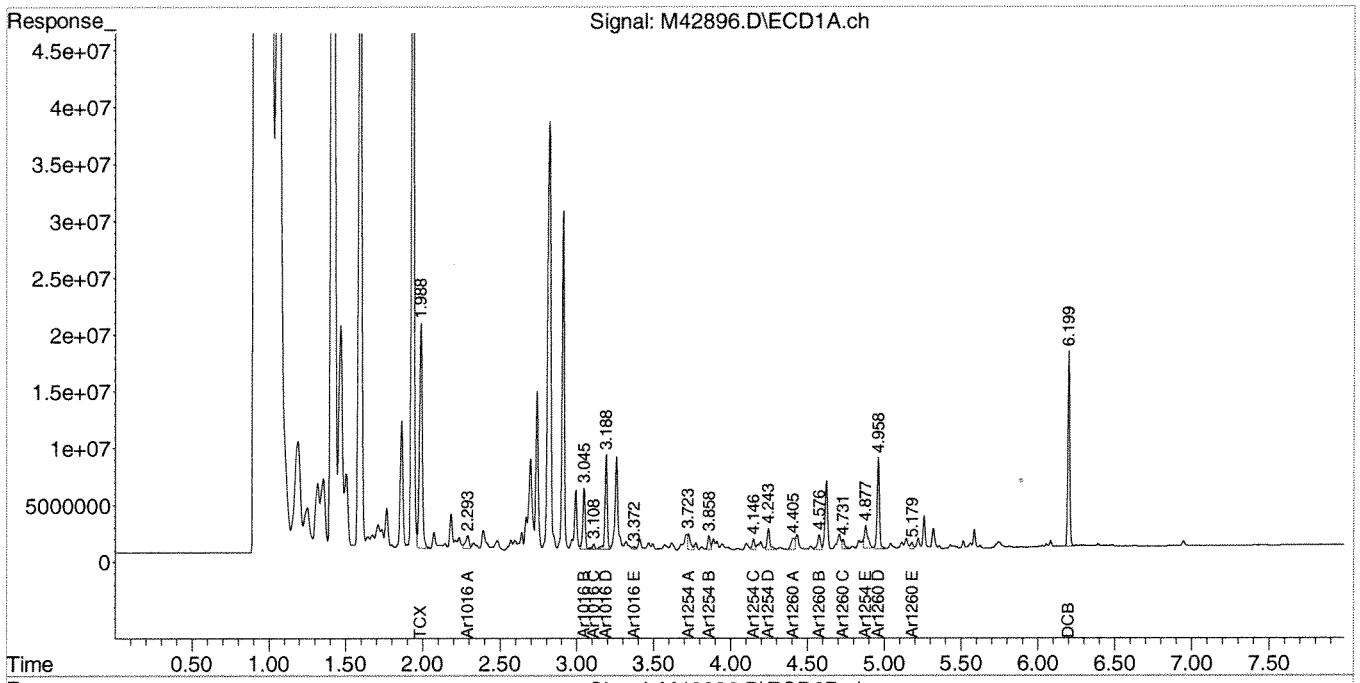
Comments: _____

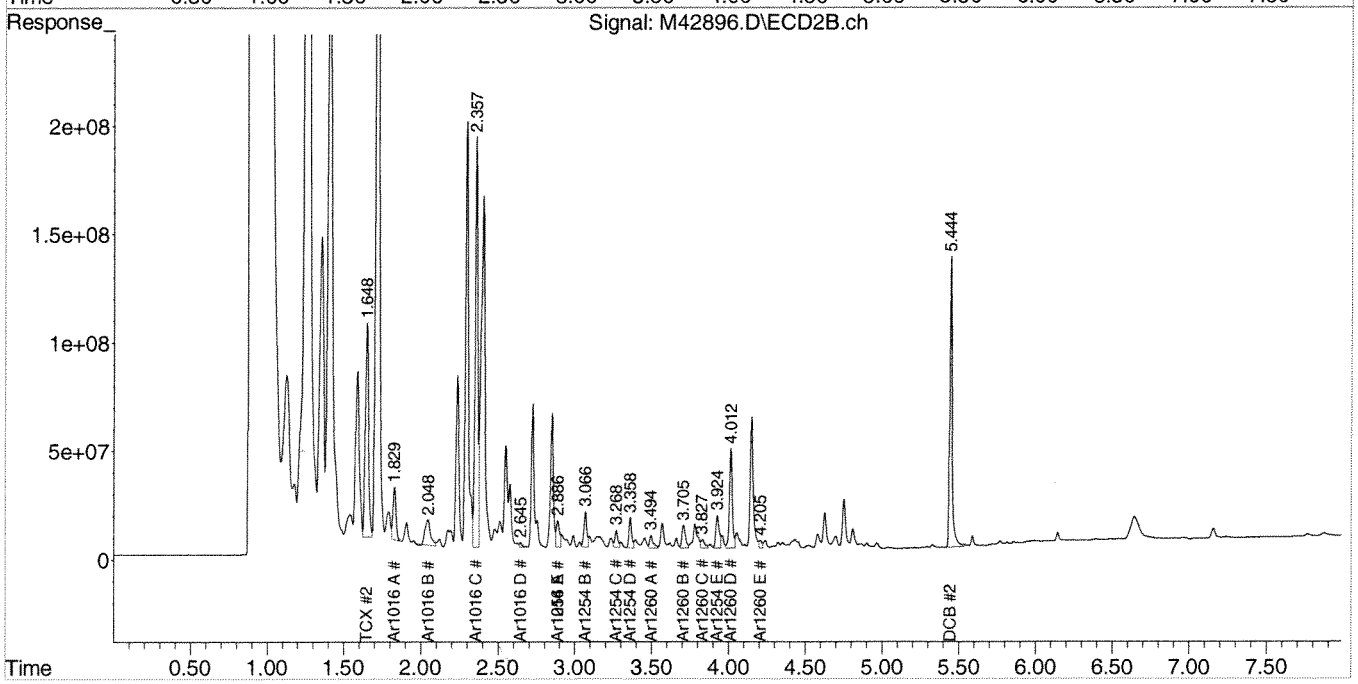
PCB FORM 10

Data Path : C:\msdchem\1\DATA\060911-M\
Data File : M42896.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Jun 2011 7:45 pm
Operator : JK
Sample : 70116-4,,A/C
Misc : SOIL
ALS Vial : 15 Sample Multiplier: 1

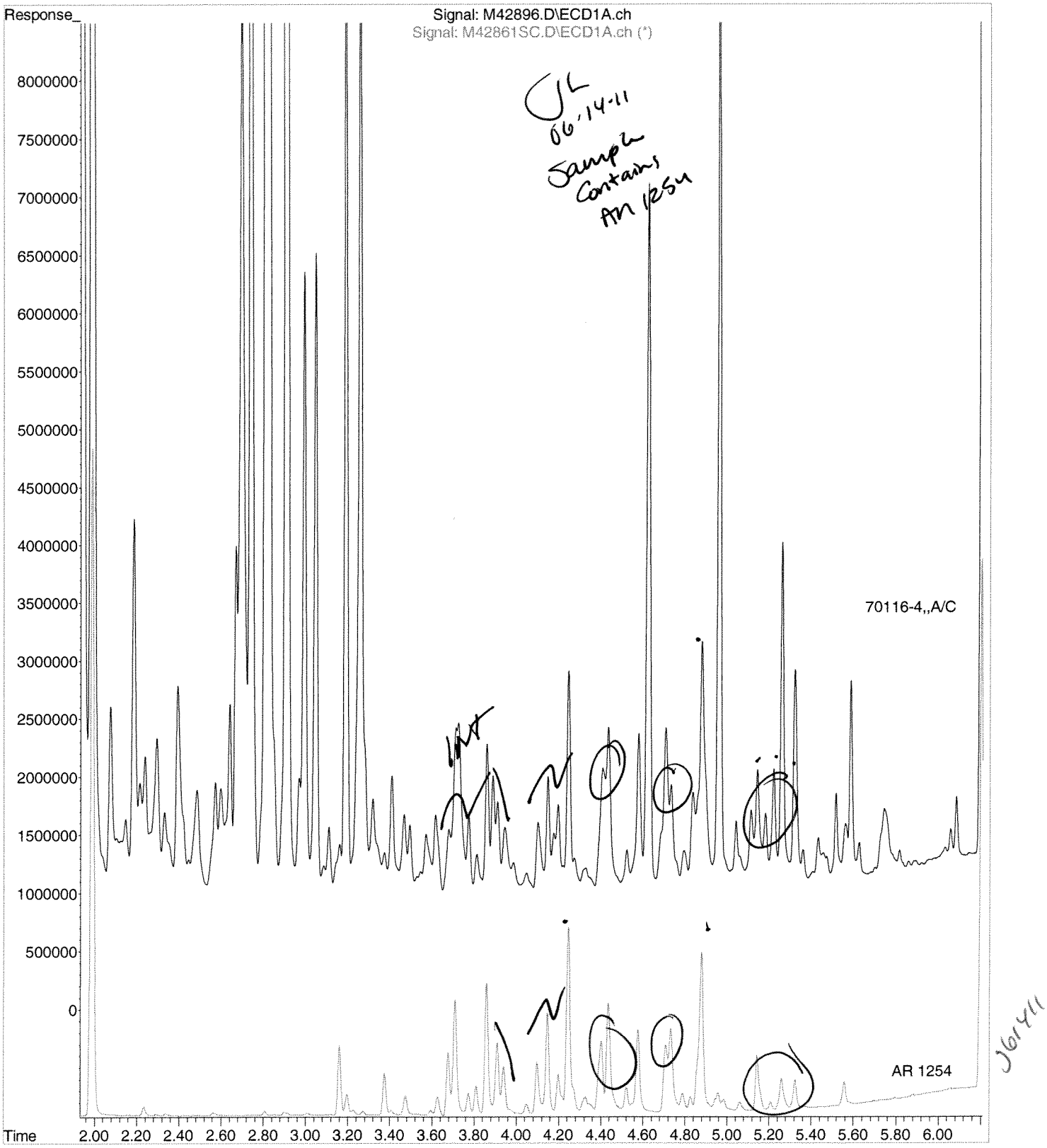
Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 14 09:20:18 2011
Quant Method : C:\msdchem\1\METHODS\PCB052411.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Mon Jun 06 12:11:43 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





File :C:\msdchem\1\DATA\060911-M\M42896.D
Operator : JK
Acquired : 9 Jun 2011 7:45 pm using AcqMethod PEST.M
Instrument : Instrument M
Sample Name: 70116-4,,A/C
Misc Info : SOIL
Vial Number: 15



JL 06/14/11 Sample Contains AR 1254

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June 14, 2011

SAMPLE DATA

Lab Sample ID: 70116-5
Matrix: Wipe
Percent Solid: N/A
Dilution Factor: 1.0
Collection Date: 06/07/11
Lab Receipt Date: 06/08/11
Extraction Date: 06/08/11
Analysis Date: 06/09/11

CLIENT SAMPLE ID

Project Name: USM Gorham PCBs
Project Number: 224164
Field Sample ID: AH-VWC-038

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	U
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	87	%
Decachlorobiphenyl	71	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

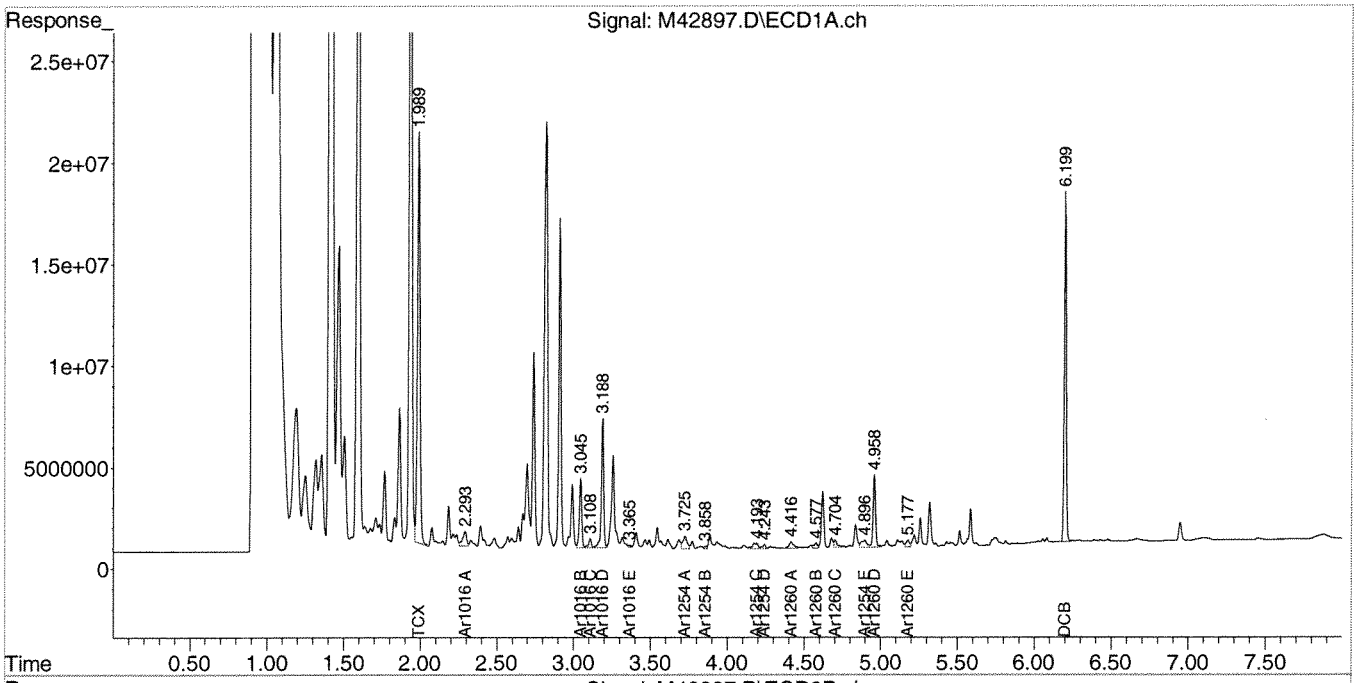
PCB Report

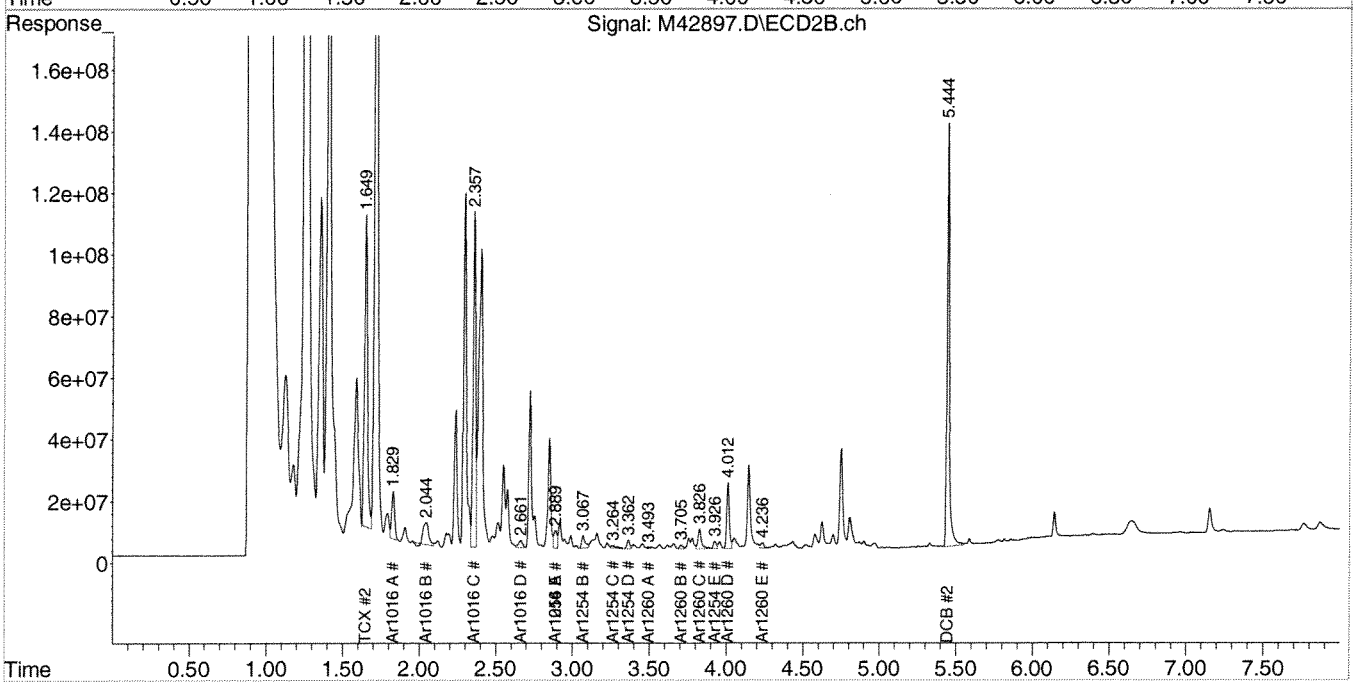
Authorized signature

Data Path : C:\msdchem\1\DATA\060911-M\
Data File : M42897.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Jun 2011 7:55 pm
Operator : JK
Sample : 70116-5,,A/C
Misc : SOIL
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 14 09:26:34 2011
Quant Method : C:\msdchem\1\METHODS\PCB052411.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Mon Jun 06 12:11:43 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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June 14, 2011

SAMPLE DATA

Lab Sample ID: 70116-6
Matrix: Wipe
Percent Solid: N/A
Dilution Factor: 1.0
Collection Date: 06/07/11
Lab Receipt Date: 06/08/11
Extraction Date: 06/08/11
Analysis Date: 06/09/11

CLIENT SAMPLE ID

Project Name: USM Gorham PCBs
Project Number: 224164
Field Sample ID: AH-VWC-039

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	U
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	91	%
Decachlorobiphenyl	71	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

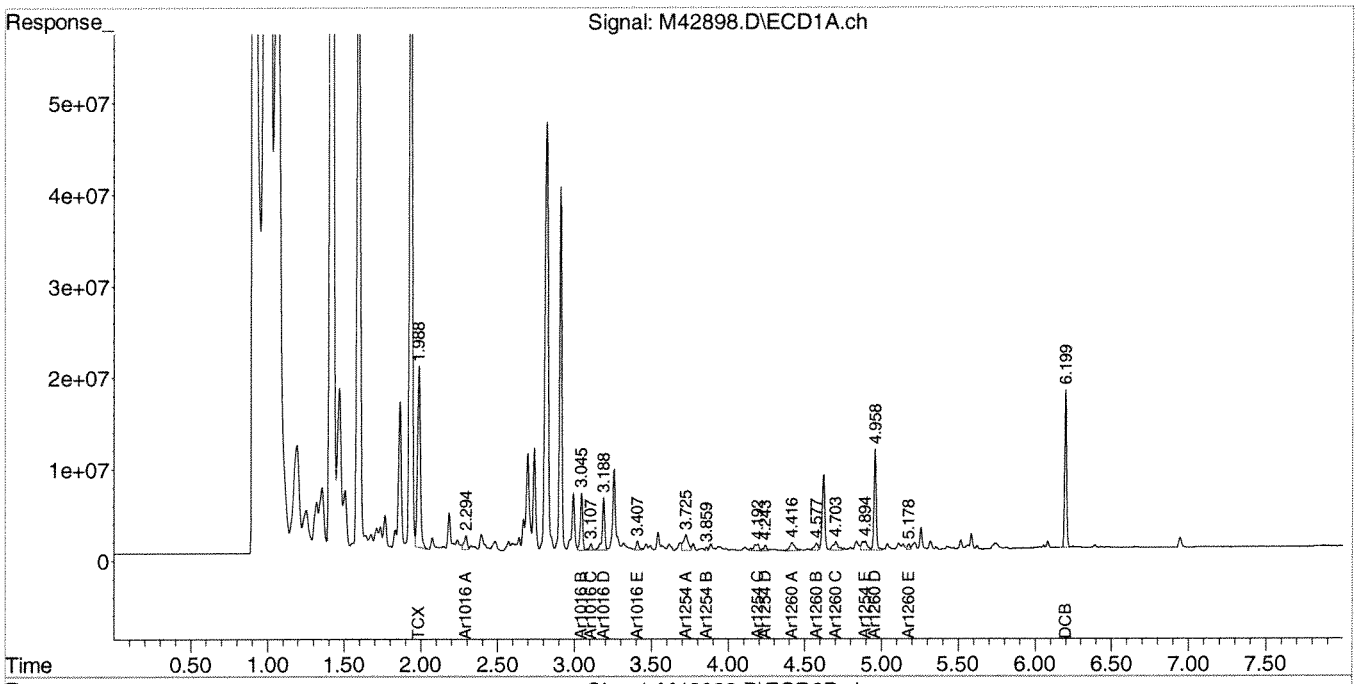
PCB Report

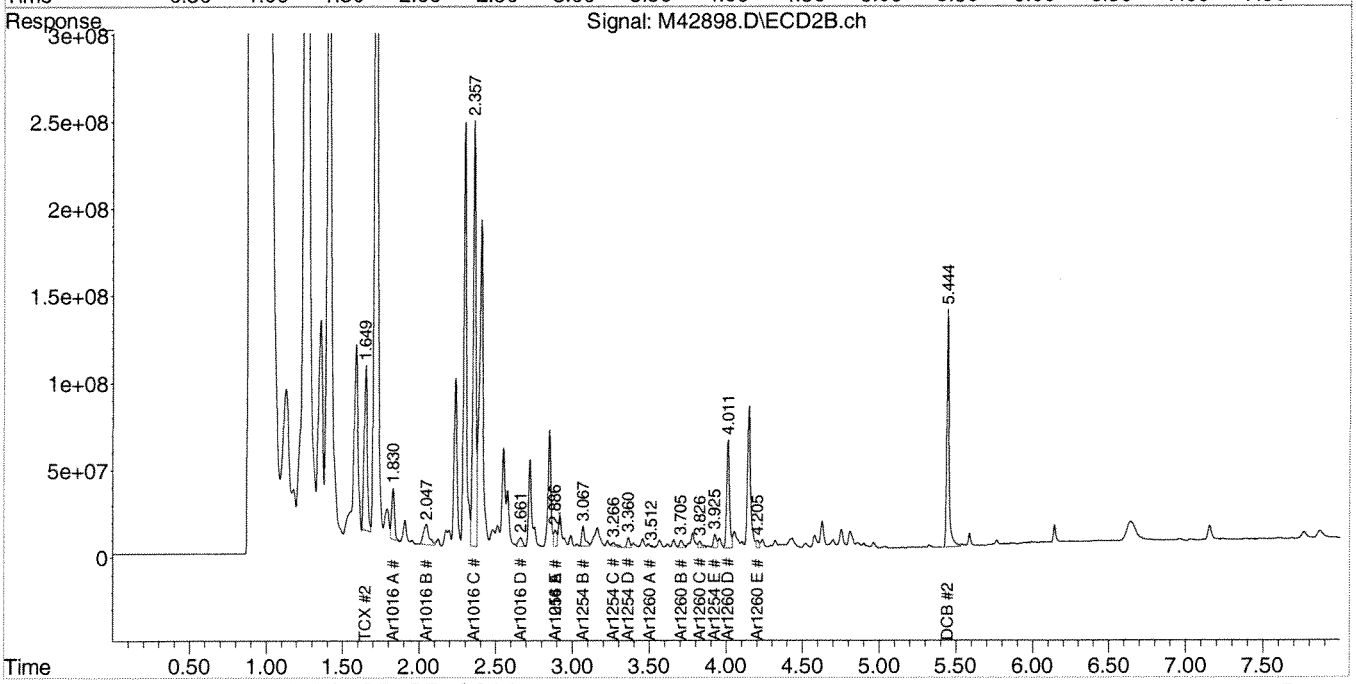
Authorized signature

Data Path : C:\msdchem\1\DATA\060911-M\
Data File : M42898.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Jun 2011 8:06 pm
Operator : JK
Sample : 70116-6,,A/C
Misc : SOIL
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 14 09:27:50 2011
Quant Method : C:\msdchem\1\METHODS\PCB052411.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Mon Jun 06 12:11:43 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





PCB
QC FORMS

AnalyticsLLC:AEL Documents LLC:Pkg Dividers:PCBQC.doc

PCB SOIL
SYSTEM MONITORING COMPOUNDS
SUMMARY

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 70116

	Column #1				Column #2			
SAMPLE ID	SMC 1 (%)	#	SMC 2 (%)	#	SMC 1 (%)	#	SMC 2 (%)	#
B060811PSOX,,A/C	83		71		75		62	
L060811PSOX,,A/C	82		70		75		62	
LD060811PSOX,,A/C	80		68		76		61	
L060811PSOXW,,A/C	78		69		71		61	
LD060811PSOXW,,A/C	78		67		71		60	
70116-3,,A/C	79		70		70		65	
70116-4,,A/C	91		71		67		63	
70116-5,,A/C	87		71		65		65	
70116-6,,A/C	91		71		61		65	
70116-2,,A/C	73		72		65		52	

		Lower Limit	Upper Limit
SMC #1 =	TCX	40	130
SMC #2 =	DCB	40	130

Column to be used to flag recovery values outside of QC limits
* Values outside QC limits
D System Monitoring Compound diluted out

PCB SOIL
SYSTEM MONITORING COMPOUNDS
SUMMARY

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 70116

	Column #1				Column #2			
SAMPLE ID	SMC 1 (%)	#	SMC 2 (%)	#	SMC 1 (%)	#	SMC 2 (%)	#
B061311PSOX,,A/C	73		64		65		60	
70116-1,1:20,,A/C	D		D		D		D	

		Lower Limit	Upper Limit
SMC #1 =	TCX	40	130
SMC #2 =	DCB	40	130

Column to be used to flag recovery values outside of QC limits
* Values outside QC limits
D System Monitoring Compound diluted out

PCB SOIL
LABORATORY CONTROL SAMPLE/DUPLICATE
PERCENT RECOVERY

Instrument ID: M

GC Column #1: STX-CLPesticides I

Column ID: 0.25 mm

GC Column #2: STX-CLPesticides II

Column ID: 0.25 mm

SDG: 70116

Non-spiked sample: B060811PSOX,,A/C

Spike: L060811PSOX,,A/C

Spike duplicate: LD060811PSOX,,A/C

COMPOUND	LCS SPIKE ADDED (ug/kg)	LCSD SPIKE ADDED (ug/kg)	LOWER LIMIT	UPPER LIMIT	RPD LIMIT	NON-SPIKE RESULT (ug/kg)	SPIKE RESULT (ug/kg)	SPIKE % REC	#	SPIKE DUP RESULT (ug/kg)	SPIKE DUP % REC	#	RPD	#
PCB 1016	200	200	65	140	30	0	203	102		200	100		1.4	
PCB 1260	200	200	60	130	30	0	188	94		192	96		2.2	
PCB 1016 #2	200	200	65	140	30	0	249	125		265	133		6.1	
PCB 1260 #2	200	200	60	130	30	0	183	92		188	94		2.4	

Column to be used to flag recovery and RPD values outside of QC limits

* Values outside QC limits

LCS/LCSD spike added values have been weight adjusted.

Non-spike result of "0" used in place of "U" to allow calculation of spike recovery.

Comments: _____

_____

PCB FORM 3

PCB WIPE
LABORATORY CONTROL SAMPLE/DUPLICATE
PERCENT RECOVERY

Instrument ID: M

GC Column #1: STX-CLPesticides I

Column ID: 0.25 mm

GC Column #2: STX-CLPesticides II

Column ID: 0.25 mm

SDG: 70116

Non-spiked sample: B060811PSOX,,A/C

Spike: L060811PSOXW,,A/C

Spike duplicate: LD060811PSOXW,,A/C

COMPOUND	LCS SPIKE ADDED (ug/kg)	LCSD SPIKE ADDED (ug/kg)	LOWER LIMIT	UPPER LIMIT	RPD LIMIT	NON-SPIKE RESULT (ug/kg)	SPIKE RESULT (ug/kg)	SPIKE % REC	#	SPIKE DUP RESULT (ug/kg)	SPIKE DUP % REC	#	RPD	#
PCB 1016	200	200	65	140	30	0	219	109		225	112		2.5	
PCB 1260	200	200	60	130	30	0	193	96		190	95		1.2	
PCB 1016 #2	200	200	65	140	30	0	211	106		215	107		1.6	
PCB 1260 #2	200	200	60	130	30	0	200	100		188	94		6.4	

Column to be used to flag recovery and RPD values outside of QC limits

* Values outside QC limits

LCS/LCSD spike added values have been weight adjusted.

Non-spike result of "0" used in place of "U" to allow calculation of spike recovery.

Comments: _____

_____

PCB FORM 3

CHAIN OF CUSTODIES

Chain Of Custody Form

analytics environmental laboratory LLC
195 Commerce Way, Suite E
Portsmouth, NH 03801
(800) 929-9906
(603) 436-5111
(603) 430-2151 Fax

Project#: 224164 Proj. Name: USM Gorham PCBs
Company: Woodard + Curran
Report to: Amy Wallace, Scott Luczko
Address: 41 Hutchins Dr.
Portland ME 04102
Phone: 207-774-2112
Quote #:
PO# (if required):

For Analytics Use Only
Samples were:
1) Shipped or hand-delivered
2) Temperature (°C): 2.9°
3) Received in good condition: Y or N
4) pH checked by: NA
5) Labels checked by: JW 6.8.11

Circle and/or Write Required Analysis

Matrix Key:
C = Concrete, WP = Wipe, WW = Wastewater, SW = Surface Water, E = Extract, GW = Groundwater, DW = Drinking Water, S = Soil / Sludge, O = Oil, X = Other

Station Identification	Sample Date	Sample Time	Preservation: Unpres	4° C	HNO_3	H_2SO_4	HCl	Methanol	Other	PCB: 8082 608 Soxhlet? Y or N	Matrix	No. of Containers	pH checked	Analytics Sample #
AH-VBC-034	6/1/11	1145		X						X	C	1		70116-1
AH-VBC-035	6/6/11	1545		X						X	C	1		2
AH-VWE-036	6/7/11	0935		X					X	X	WP	1		3
AH-VWE-037	6/7/11	1000		X					X	X	WP	1		4
AH-VWC-038	6/7/11	1325		X					X	X	WP	1		5
AH-VWC-039	6/7/11	1330		X					X	X	WP	1		6

Field Filtered? Y or N; VOC: 8260 524.2 624; SVOC: 8270 625 PAH only SIM; Pesticides: 8081 608; PCB: 8082 608 Soxhlet? Y or N; TPH: 8015DRO 8015GRO 8100M; EPH: Full (includes targets) Ranges only; VPH: Full (includes targets) Ranges only; Metals: RCRA8 PP13 TAL23 Other*

SHC 6/9/11

Email Results to: awallace@woodardcurran.com

Turnaround Time (TAT)
- [ ] 24 Hours*
- [ ] 48 Hours*
- [ ] 72 Hours*
- [x] 5 Days*
- [ ] 10 Days

*Fee may apply; lab approval required

Comments, Additional Analyses, or Special Instructions: * List requested metals here

PCBs 8082 w/Soxhlet Extraction

Project Requirements: *Fee may apply

Report Type:
- [ ] MCP*
- [ ] CTRCP*
- [ ] DOD*
- [ ] Level II*
- [ ] Level III*
- [ ] Level IV*
- [ ] Standard

State:
- [ ] NH
- [ ] MA
- [x] ME
- [ ] CT
- [ ] RI

Other:

State Standard: (eg. S-1 or GW-1)

EDD Required: Y* N

Type:

Sampler Name (Print): Scott Luczko

Relinquished By Sampler:	Date: 6/7/11	Time: 1800	Received By:	
Relinquished By:	Date: 6/8/11	Time: 1057	Received By:	
Relinquished By:	Date:	Time:	Received By:	SHC 6/9/11

Page ____ of ____

analytics environmental laboratory LLC

ANALYTICS SAMPLE RECEIPT CHECKLIST

AEL LAB#: 70116
CLIENT: Woodard
PROJECT: USM Gorham PCB's

COOLER NUMBER: Client's
NUMBER OF COOLERS: 1
DATE RECEIVED: 6/8/11

A: PRELIMINARY EXAMINATION:

DATE COOLER OPENED: 6/8/11

1. Cooler received by(initials): JSB

Date Received: 6/8/11

2. Circle one: Hand delivered (If so, skip 3) Shipped

3. Did cooler come with a shipping slip? Y (N)

3a. Enter carrier name and airbill number here: N/A

4. Were custody seals on the outside of cooler? Y (N)
How many & where: _____ Seal Date: _____ Seal Name: _____

5. Did the custody seals arrive unbroken and intact upon arrival? Y (N/A)

6. COC-. —

7. Were Custody papers filled out properly (ink,signed, etc)? (Y) N

8. Were custody papers sealed in a plastic bag? (Y) N

9. Did you sign the COC in the appropriate place? (Y) N

10. Was the project identifiable from the COC papers? (Y) N

11. Was enough ice used to chill the cooler? (Y) N Temp. of cooler: 2.9°

B. Log-In: Date samples were logged in: 6/8/11 By: CP

12. Type of packing in cooler(bubble wrap, popcorn) Y (N)

13. Were all bottles sealed in separate plastic bags? Y (N)

14. Did all bottles arrive unbroken and were labels in good condition? (Y) N

15. Were all bottle labels complete(ID,Date,time,etc.) (Y) N

16. Did all bottle labels agree with custody papers? (Y) N

17. Were the correct containers used for the tests indicated: (Y) N

18. Were samples received at the correct pH? Y (N/A)

19. Was sufficient amount of sample sent for the tests indicated? (Y) N

20. Were all samples submitted within holding time? (Y) N

21. Were bubbles absent in VOA samples? Y (N/A)

If NO, List Sample ID's and Lab #s: _____

22. Laboratory labeling verified by (initials): JW Date: 6·8·11

analytics environmental laboratory LLC

195 Commerce Way Suite E
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906
www.analyticslab.com

July 21, 2011

Ms. Amy Wallace
Woodard & Curran
35 NE Business Center Suite 180
Andover MA 01810

RE: Analytical Results Case Narrative
Analytics # 70198 Revision 1
USM-Gorham Project No: 224164

Dear Ms. Wallace;

Enclosed please find the analytical results for samples submitted for the above-mentioned project. The attached Cover Page lists the sample IDs, Lab tracking numbers and collection dates for the samples included in this deliverable.

Samples were analyzed Polychlorinated Biphenyls (PCBs) by EPA Method 8082.

Revision 1: This report has been revised to correct the Form 1 for 70198-3 due to the lower result for PCB 1254 being mistakenly reported in the original report.

Unless otherwise noted in the Non-conformance Summary listed below, all of the quality control (QC) criteria including initial calibration, calibration verification, surrogate recovery, holding time and method accuracy/precision for these analyses were within acceptable limits.

This Level II data package has been assembled in the following order:

Case Narrative/Non-Conformance Summary
Sample Log Sheet - Cover Page
PCB Form 1 Data Sheet for Samples and Blanks
Chromatograms
PCB Form 10 Confirmation Results
PCB Form 3 MS/MSD (LCS) Recoveries
Chain of Custody (COC) Forms

QC NON-CONFORMANCE SUMMARY

Sample Receipt:
No exceptions.

PCBs by EPA Method 8082:
No results were reported below the quantitation limit.

Sample 70198-6 had high recovery for surrogate Tetrachloro-m-xylene on column#1. Column#2 was in control for both surrogates. Results were reported without qualification.

The laboratory control sample (L062011PSOX2) had high recovery for PCB 1260 (141%) on column#2. The laboratory control sample duplicate (LD062011PSOX2) was in control for all analytes. Results were reported without qualification.

The closing continuing calibration standard (file#M43532SC) had low recovery for surrogate Decachlorobiphenyl on column#2. The standard was reanalyzed (file#M43534SC) with similar results. Results were reported without qualification.

If you have any questions on these results, please do not hesitate to contact me.

Sincerely,
ANALYTICS Environmental Laboratory, LLC

Stephen L. Knollmeyer
Laboratory Director

analytics environmental laboratory LLC

195 Commerce Way Suite E
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906
www.analyticslab.com

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

Report Number: 70198

Revision: Rev.1

Re: USM Gorham PCBs (Project No: 224164)

Enclosed are the results of the analyses on your sample(s). Samples were received on 16 June 2011 and analyzed for the tests listed. Samples were received in acceptable condition, with the exceptions noted below or on the chain of custody. These results pertain to samples as received by the laboratory and for the analytical tests requested on the chain of custody. The results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. Please see individual reports for specific methodologies and references.

Lab Number	Sample Date	Station Location	Analysis	Comments
70198-1	06/10/11	AH-VBC-040	EPA 8082 (PCBs only)	
70198-2	06/13/11	AH-VWE-042	EPA 8082 (PCBs only)	
70198-3	06/15/11	AH-VWE-043	EPA 8082 (PCBs only)	
70198-4	06/15/11	AH-VWC-044	EPA 8082 (PCBs only)	
70198-5	06/15/11	AH-VWC-045	EPA 8082 (PCBs only)	
70198-6	06/15/11	AH-VBC-046	EPA 8082 (PCBs only)	

Sample Receipt Exceptions: None

Analytics Environmental Laboratory is certified by the states of New Hampshire, Maine, Massachusetts, Connecticut, Rhode Island, Virginia, Maryland, and North Carolina, and is accredited by the Deparment of Defense (DOD) ELAP program. A list of actual certified parameters is available upon request.

If you have any questions on these results, please do not hesitate to contact us.

Authorized signature _____
Stephen L. Knollmeyer Lab. Director

Date 7/21/2011

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Surrogate Compound Limits

Matrix:	Aqueous	Solid	
Units:	% Recovery	% Recovery	Method
Volatile Organic Compounds - Drinking Water			
1,4-Difluorobenzene	70-130		EPA 524.2
Bromofluorobenzene	70-130		
1,2-Dichlorobenzene-d4	70-130		
Volatile Organic Compounds			
1,2-Dichloroethane-d4	70-120	70-120	EPA 624/8260B
Toluene-d8	85-120	85-120	
Bromofluorobenzene	75-120	75-120	
Semi-Volatile Organic Compounds			
2-Fluorophenol	20-110	35-105	EPA 625/8270C
d5-Phenol	15-110	40-100	
d5-nitrobenzene	40-110	35-100	
2-Fluorobiphenyl	50-110	45-105	
2,4,6-Tribromophenol	40-110	40-125	
d14-p-terphenyl	50-130	30-125	
PAH's by SIM			
d5-nitrobenzene	21-110	35-110	EPA 8270C
2-Fluorobiphenyl	36-121	45-105	
d14-p-terphenyl	33-141	30-125	
Pesticides and PCBs			
2,4,5,6-Tetrachloro-m-xylene (TCX)	46-122	40-130	EPA 608/8082
Decachlorobiphenyl (DCB)	40-135	40-130	
Herbicides			
Dichloroacetic acid (DCAA)	30-150	30-150	
Gasoline Range Organics/TPH Gasoline			
Trifluorotoluene TFT (FID)	60-140	60-140	MEDEP 4217/EPA 8015
Bromofluorobenzene (BFB) (FID)	60-140	60-140	
Trifluorotoluene TFT (PID)	60-140	60-140	
Bromofluorobenzene (BFB) (PID)	60-140	60-140	
Diesel Range Organics/TPH Diesel			
m-terphenyl	60-140	60-140	MEDEP 4125/EPA 8015/CT ETPH
Volatile Petroleum Hydrocarbons			
2,5-Dibromotoluene (PID)	70-130	70-130	MADEP VPH May 2004 Rev1.1
2,5-Dibromotoluene (FID)	70-130	70-130	
Extracatable Petroleum Hydrocarbons			
1-chloro-octadecane (aliphatic)	40-140	40-140	MADEP EPH May 2004 Rev1.1
o-Terphenyl (aromatic)	40-140	40-140	
2-Fluorobiphenyl (Fractionation)	40-140	40-140	
2-Bromonaphthalene (fractionation)	40-140	40-140	

PCB
DATA SUMMARIES

analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

June 23, 2011

SAMPLE DATA

Lab Sample ID: B062011PSOX2
Matrix: Soil
Percent Solid: N/A
Dilution Factor: 1.0
Collection Date:
Lab Receipt Date:
Extraction Date: 06/20/11
Analysis Date: 06/21/11

CLIENT SAMPLE ID

Project Name: USM Gorham PCBs
Project Number: 224164
Field Sample ID: Lab QC

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	33	U
PCB-1221	33	U
PCB-1232	33	U
PCB-1242	33	U
PCB-1248	33	U
PCB-1254	33	U
PCB-1260	33	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	77	%
Decachlorobiphenyl	76	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

COMMENTS: Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Results are expressed on a dry weight basis.

PCB Report

Authorized signature Anna L Lewis

analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

June 23, 2011

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: USM Gorham PCBs

Project Number: 224164

Field Sample ID: Lab QC

Lab Sample ID: B062011PSOX2
Matrix: Wipe
Percent Solid: N/A
Dilution Factor: 1.0
Collection Date:
Lab Receipt Date:
Extraction Date: 06/20/11
Analysis Date: 06/21/11

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	U
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	77	%
Decachlorobiphenyl	76	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

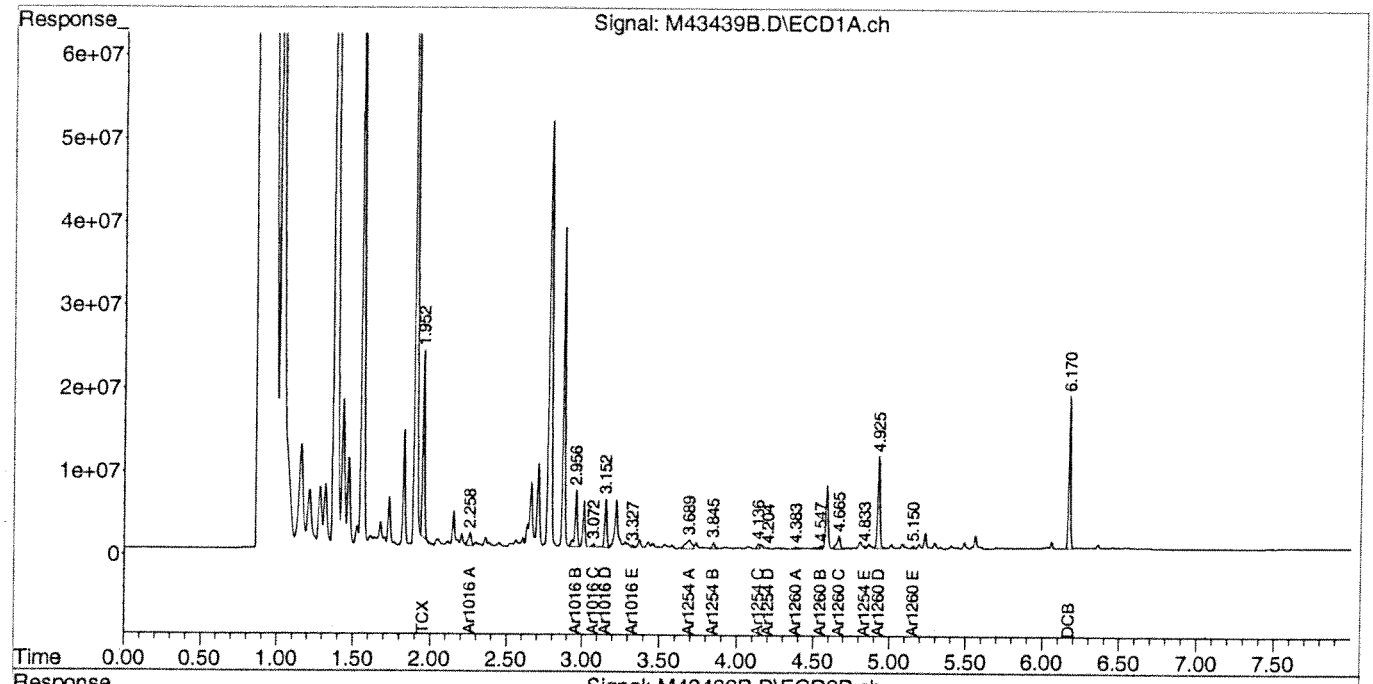
PCB Report

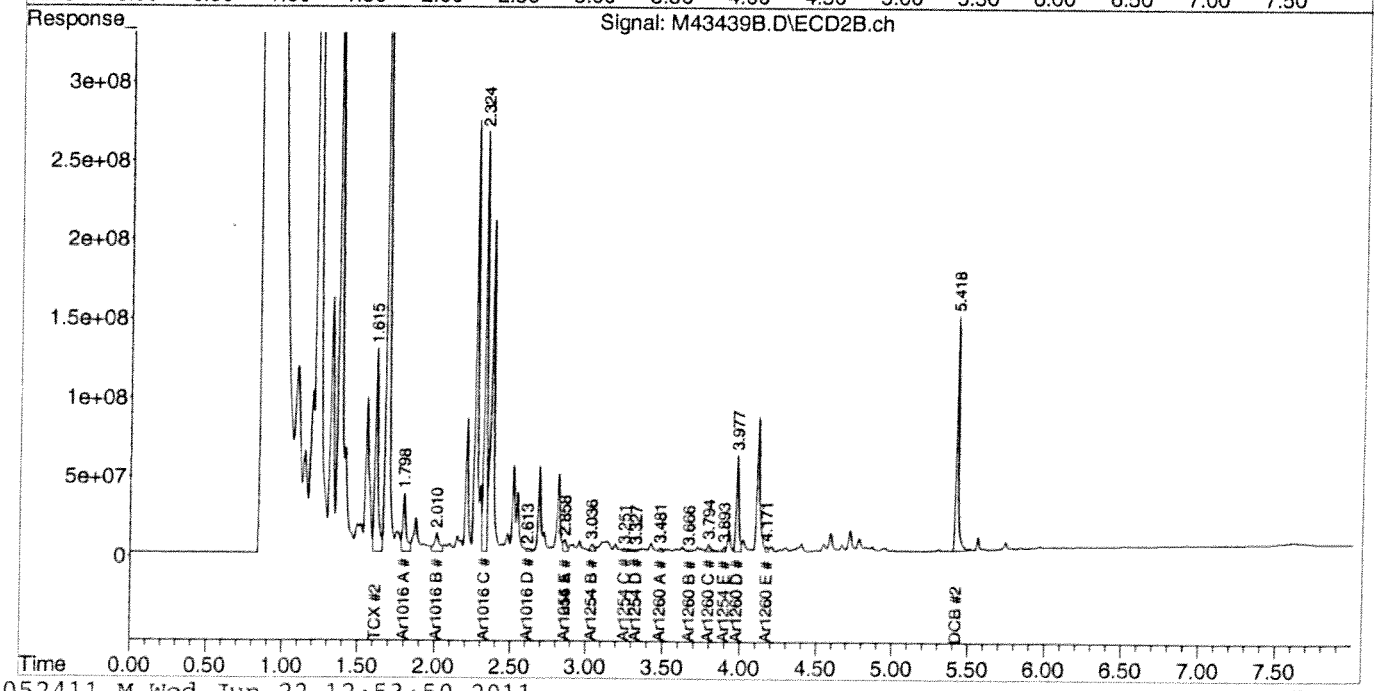
Authorized signature

Data Path : C:\msdchem\1\DATA\062111-M\
Data File : M43439B.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Jun 2011 9:38 pm
Operator : JK
Sample : B062011PSOX2,,A/C
Misc : SOIL
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 22 12:53:36 2011
Quant Method : \\Hpdos13-m\c drive\msdchem\1\METHODS\PCB052411.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Tue Jun 21 12:21:54 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





analytics environmental laboratory LLC

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800-929-9906

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

June 23, 2011

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: USM Gorham PCBs

Project Number: 224164

Field Sample ID: Lab QC

Lab Sample ID: B062011PSOX2 RR2
Matrix: Soil
Percent Solid: N/A
Dilution Factor: 1.0
Collection Date:
Lab Receipt Date:
Extraction Date: 06/20/11
Analysis Date: 06/21/11

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	33	U
PCB-1221	33	U
PCB-1232	33	U
PCB-1242	33	U
PCB-1248	33	U
PCB-1254	33	U
PCB-1260	33	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	81	%
Decachlorobiphenyl	76	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

COMMENTS: Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Results are expressed on a dry weight basis.

PCB Report

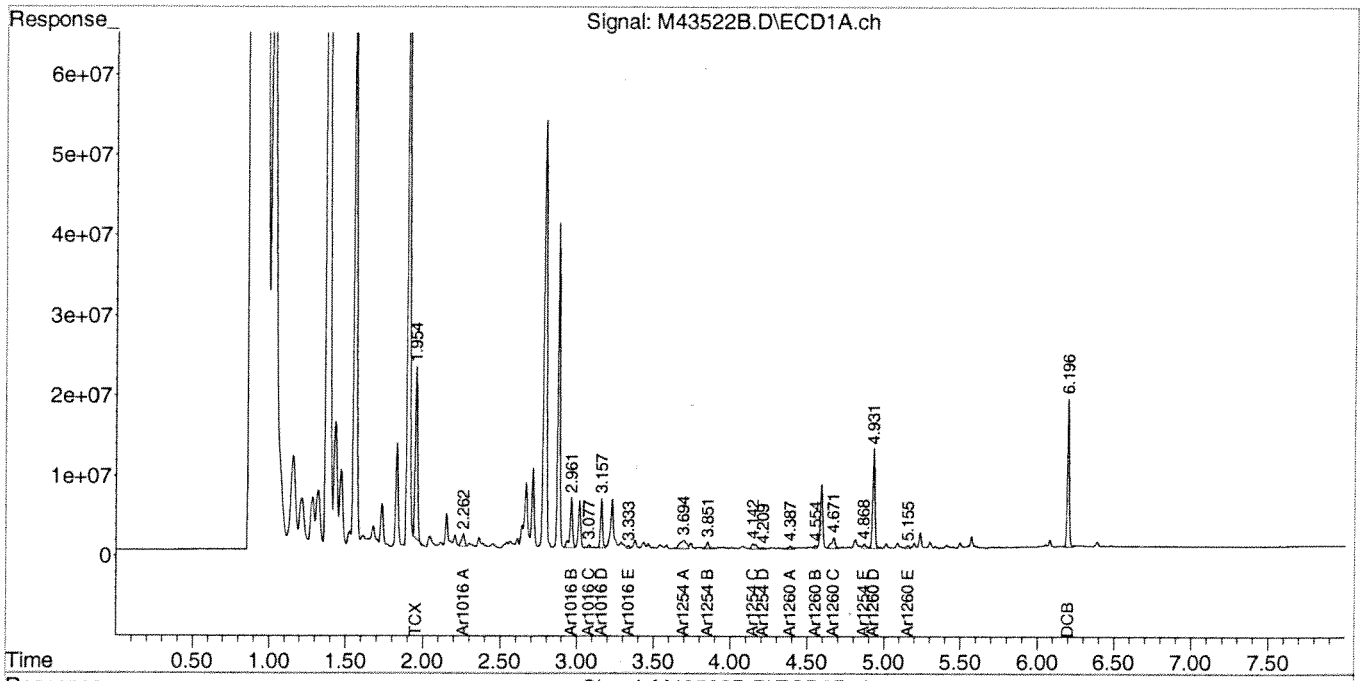
Authorized signature

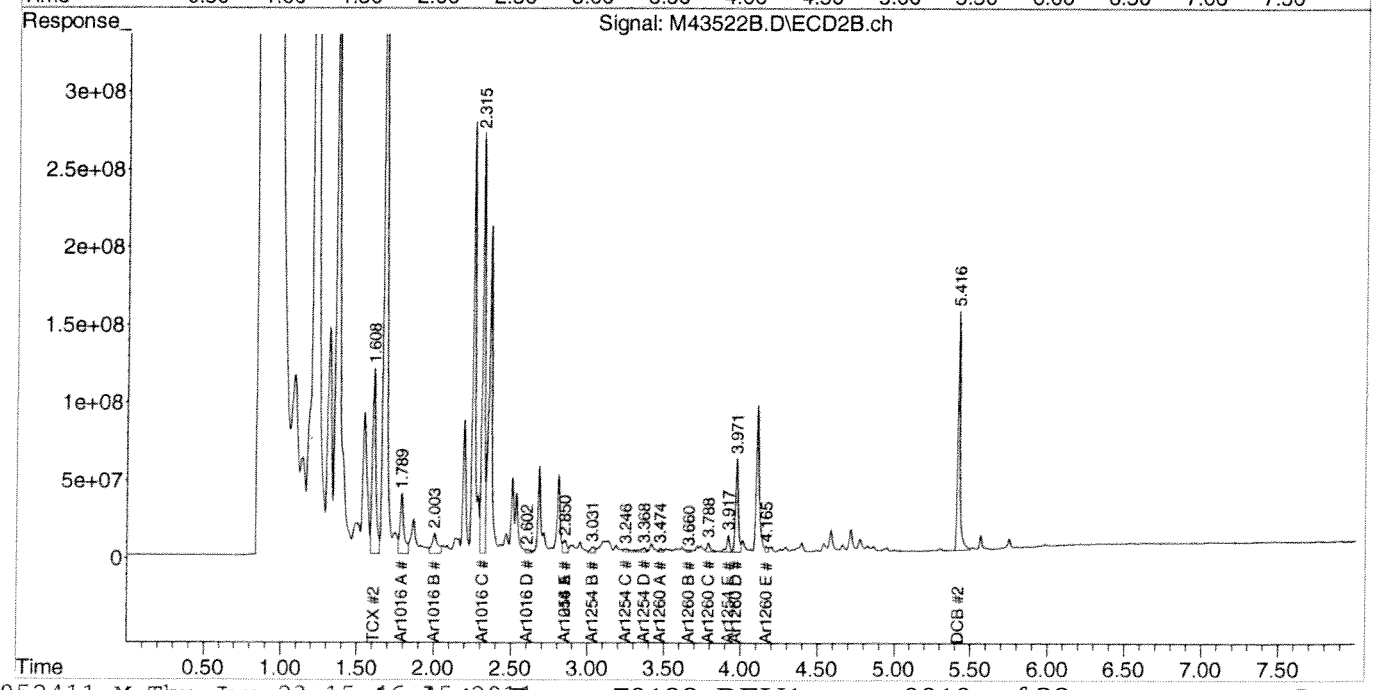
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\062311-M\
Data File : M43522B.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Jun 2011 1:23 pm
Operator : JK
Sample : B062011PSOX2,RR,,A/C
Misc : SOIL
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 23 15:45:54 2011
Quant Method : C:\msdchem\1\METHODS\PCB052411.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Tue Jun 21 12:21:52 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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Portland ME 04102

June 23, 2011

SAMPLE DATA

Lab Sample ID:	70198-1
Matrix:	Solid
Percent Solid:	99
Dilution Factor:	1.0
Collection Date:	06/10/11
Lab Receipt Date:	06/16/11
Extraction Date:	06/20/11
Analysis Date:	06/21/11

CLIENT SAMPLE ID

Project Name:	USM Gorham PCBs
Project Number:	224164
Field Sample ID:	AH-VBC-040

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	33	U
PCB-1221	33	U
PCB-1232	33	U
PCB-1242	33	U
PCB-1248	33	U
PCB-1254	33	U
PCB-1260	33	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	65	%
Decachlorobiphenyl	67	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

COMMENTS: Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Results are expressed on a dry weight basis.

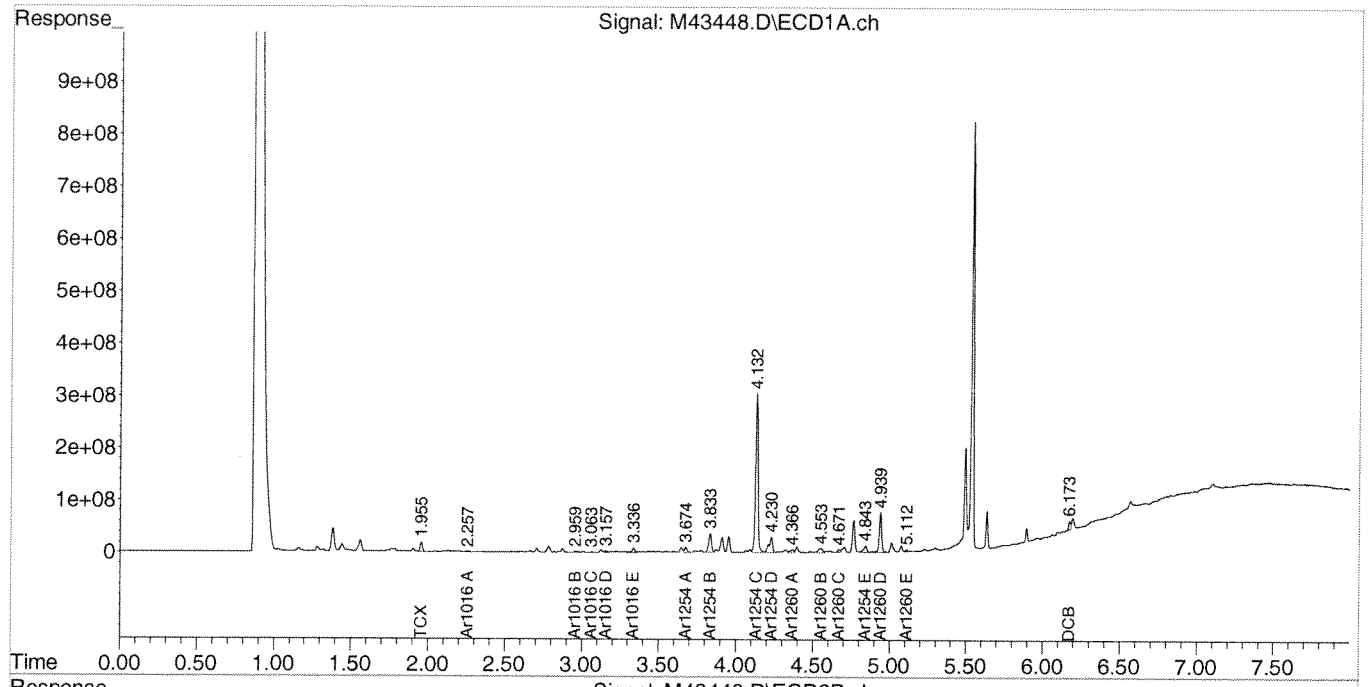
PCB Report

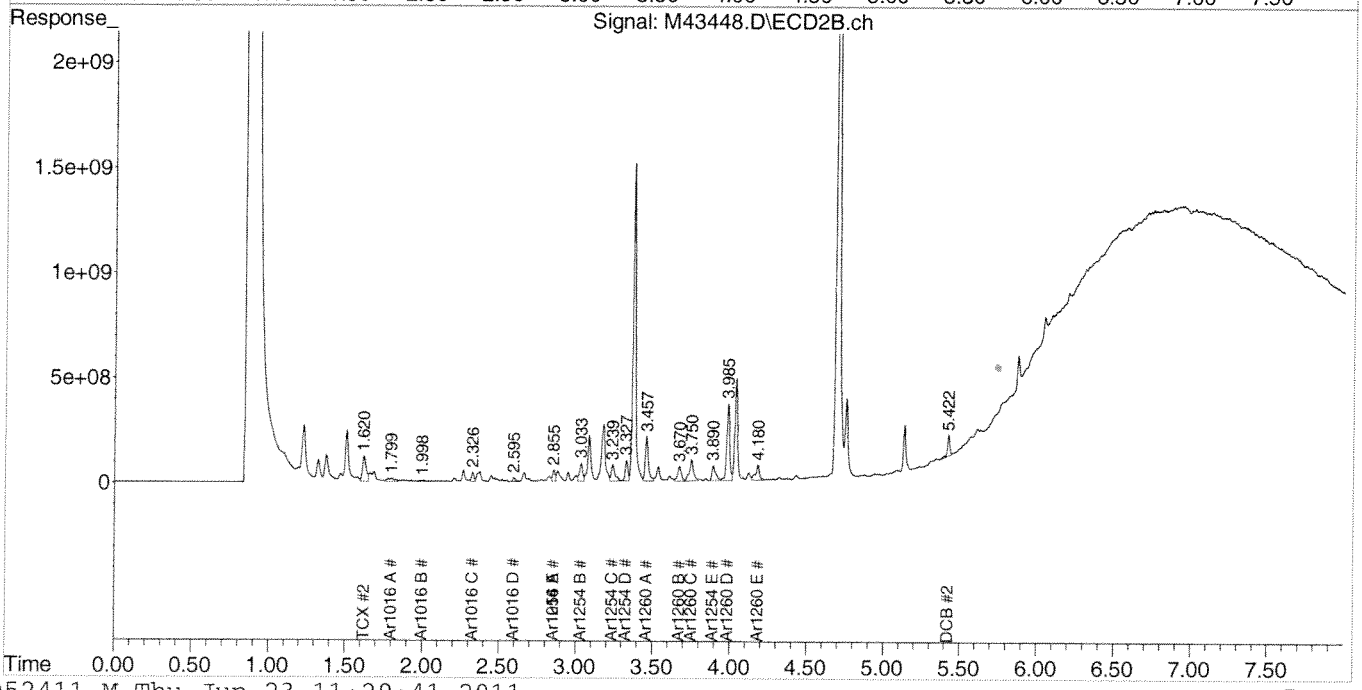
Authorized signature

Data Path : C:\msdchem\1\DATA\062111-M\
Data File : M43448.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Jun 2011 11:08 pm
Operator : JK
Sample : 70198-1,,A/C
Misc : SOIL
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 23 11:29:35 2011
Quant Method : \\Hpdos13-m\c drive\msdchem\1\METHODS\PCB052411.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Tue Jun 21 12:21:54 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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June 23, 2011

SAMPLE DATA

Lab Sample ID: 70198-2
Matrix: Wipe
Percent Solid: N/A
Dilution Factor: 1.0
Collection Date: 06/13/11
Lab Receipt Date: 06/16/11
Extraction Date: 06/20/11
Analysis Date: 06/21/11

CLIENT SAMPLE ID

Project Name: USM Gorham PCBs
Project Number: 224164
Field Sample ID: AH-VWE-042

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	**2.63**
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	68	%
Decachlorobiphenyl	77	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

PCB Report

Authorized signature Jenna L Lewis

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 70198
Sample: 70198-2,,A/C
Data File: M43449.D
Dilution Factor: 1.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/wipe)	SAMPLE RESULT (ug/wipe)	RPD	#
PCB 1254	2.63	2.34	11.8	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

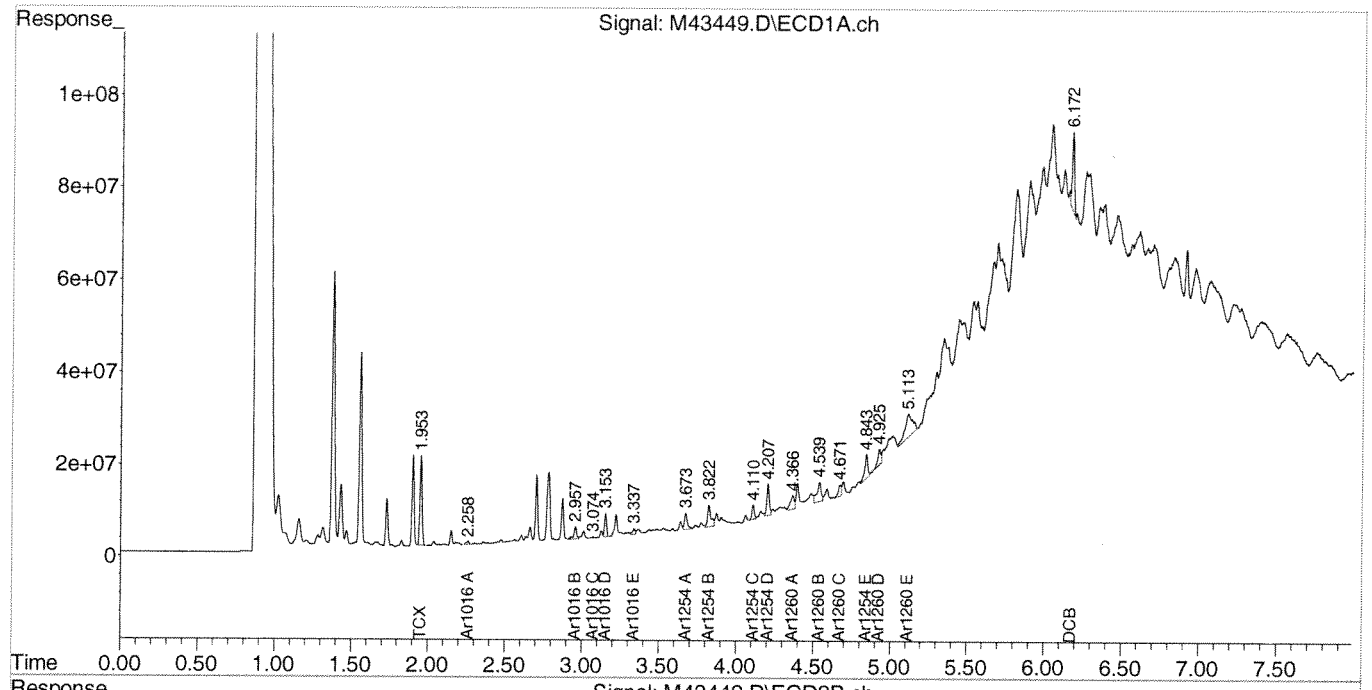
Comments: _____

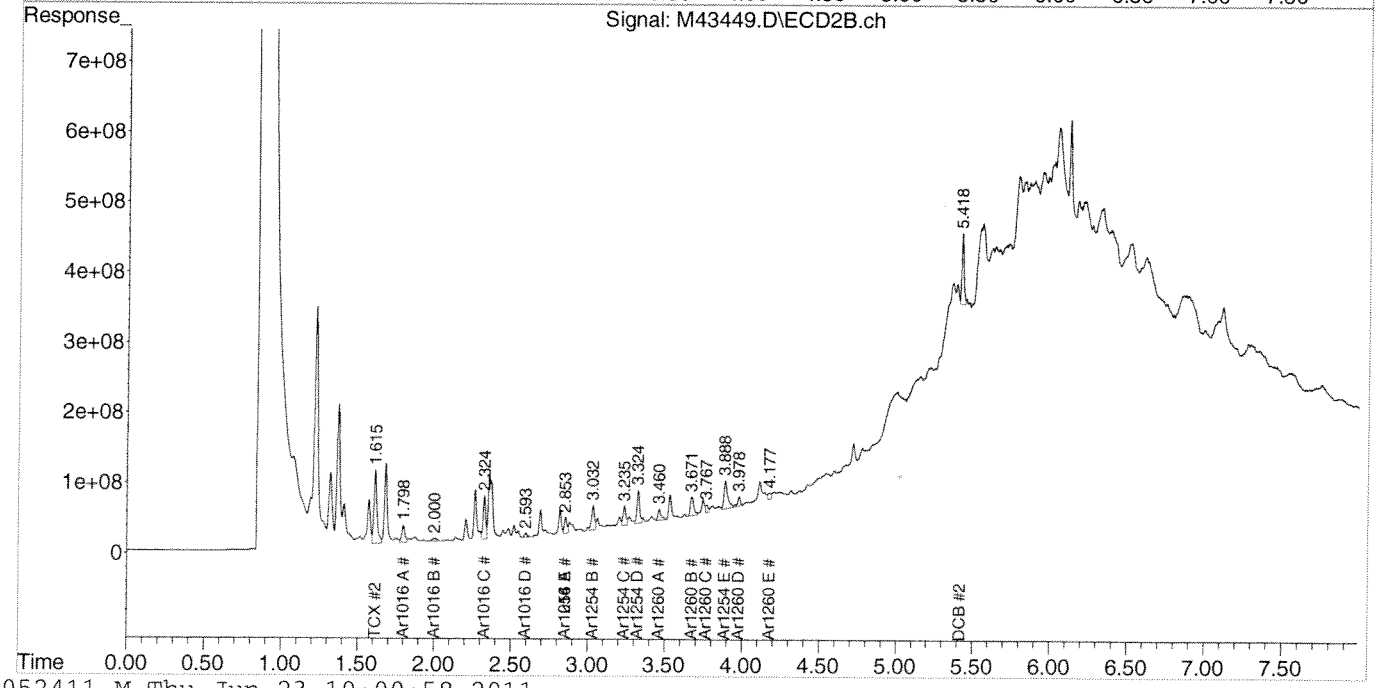
PCB FORM 10

Data Path : C:\msdchem\1\DATA\062111-M\
Data File : M43449.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Jun 2011 11:19 pm
Operator : JK
Sample : 70198-2,,A/C
Misc : SOIL
ALS Vial : 30 Sample Multiplier: 1

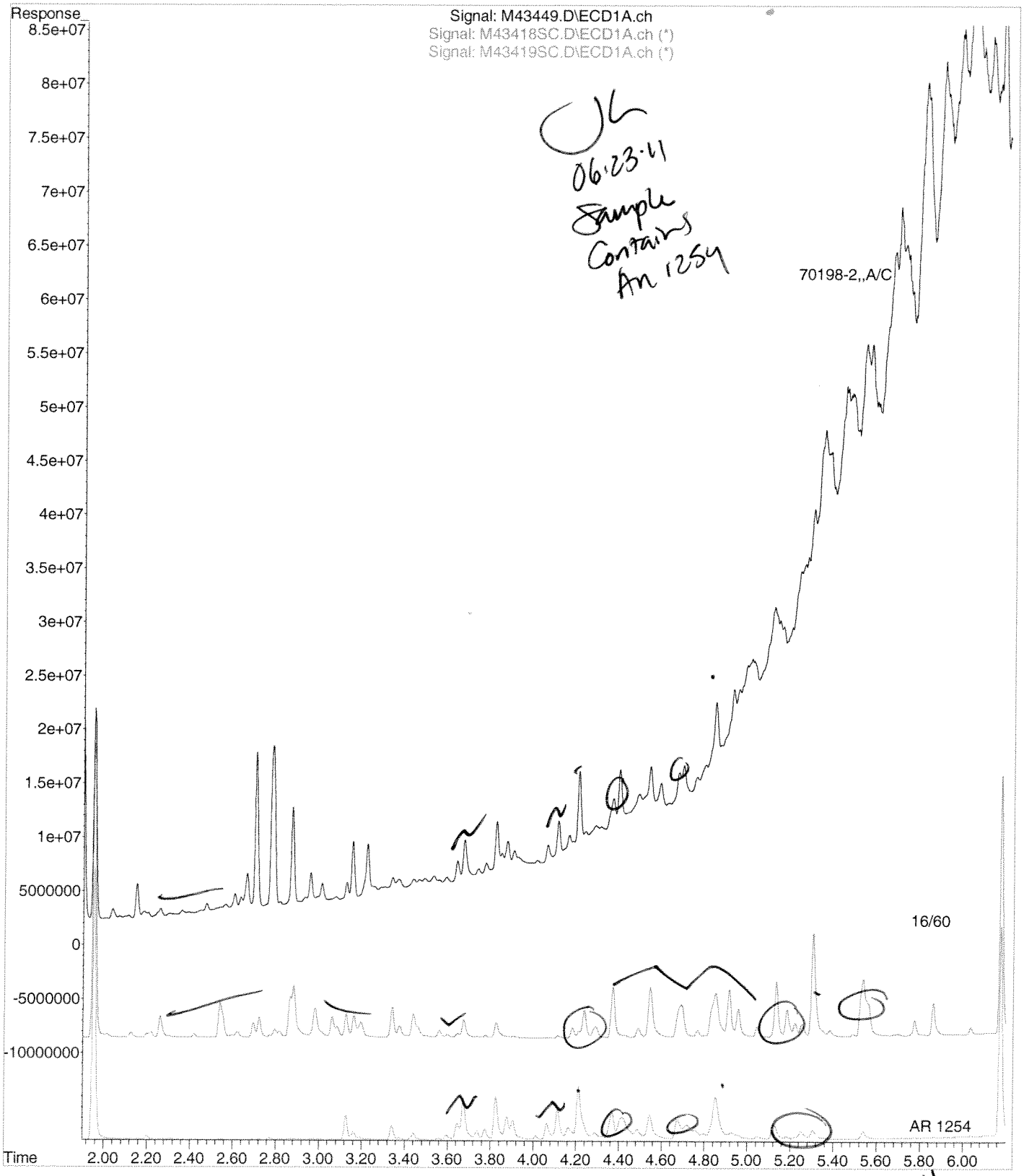
Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 23 10:00:46 2011
Quant Method : \\Hpdos13-m\c drive\msdchem\1\METHODS\PCB052411.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Tue Jun 21 12:21:54 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





File :C:\msdchem\1\DATA\062111-M\M43449.D
Operator : JK
Acquired : 21 Jun 2011 11:19 pm using AcqMethod PCB.M
Instrument : Instrument M
Sample Name: 70198-2,,A/C
Misc Info : SOIL
Vial Number: 30



JK 6.23.11

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July 21, 2011

SAMPLE DATA

Lab Sample ID:	70198-3
Matrix:	Wipe
Percent Solid:	N/A
Dilution Factor:	25
Collection Date:	06/15/11
Lab Receipt Date:	06/16/11
Extraction Date:	06/20/11
Analysis Date:	06/23/11

CLIENT SAMPLE ID

Project Name:	USM Gorham PCBs
Project Number:	224164
Field Sample ID:	AH-VWE-043

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	13	U
PCB-1221	13	U
PCB-1232	13	U
PCB-1242	13	U
PCB-1248	13	U
PCB-1254	13	**195**
PCB-1260	13	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	*	%
Decachlorobiphenyl	*	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS: * The surrogates were diluted out.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 70198
Sample: 70198-3,1:25,,A/C
Data File: M43523.D
Dilution Factor: 25.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/wipe)	SAMPLE RESULT (ug/wipe)	RPD	#
PCB 1254	175	195	10.7	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

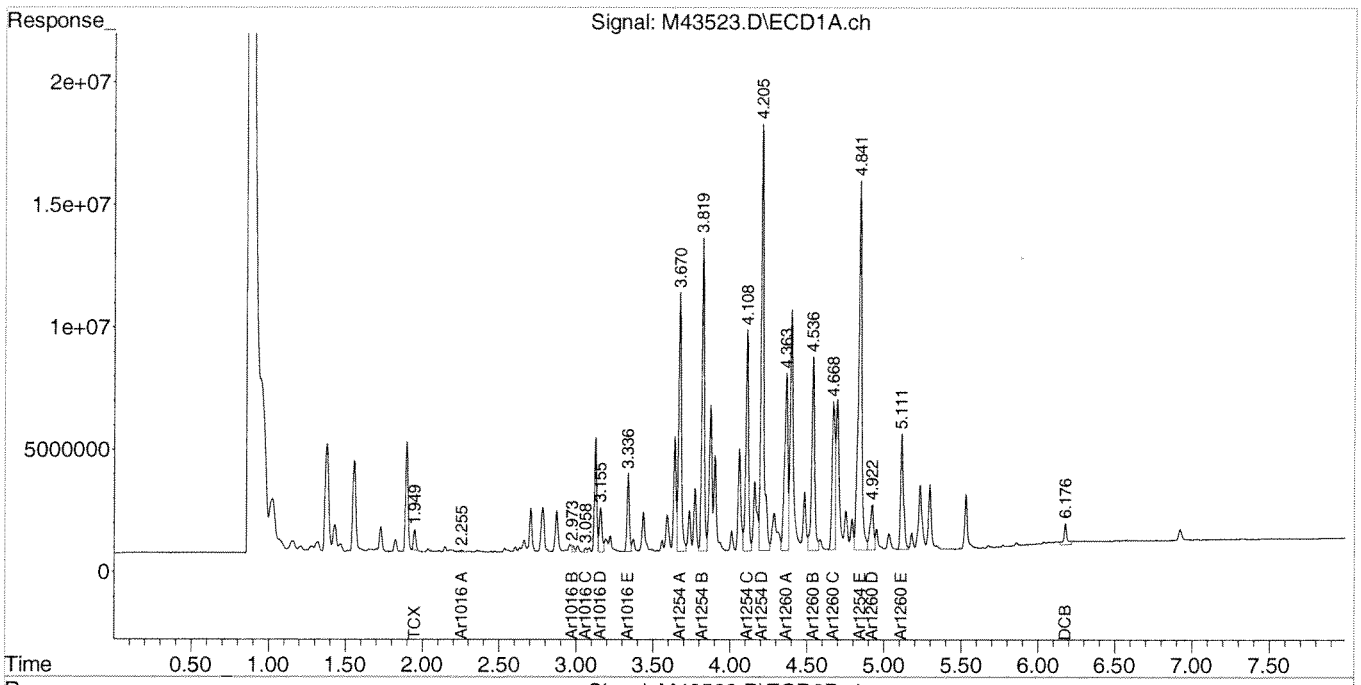
Comments: _____

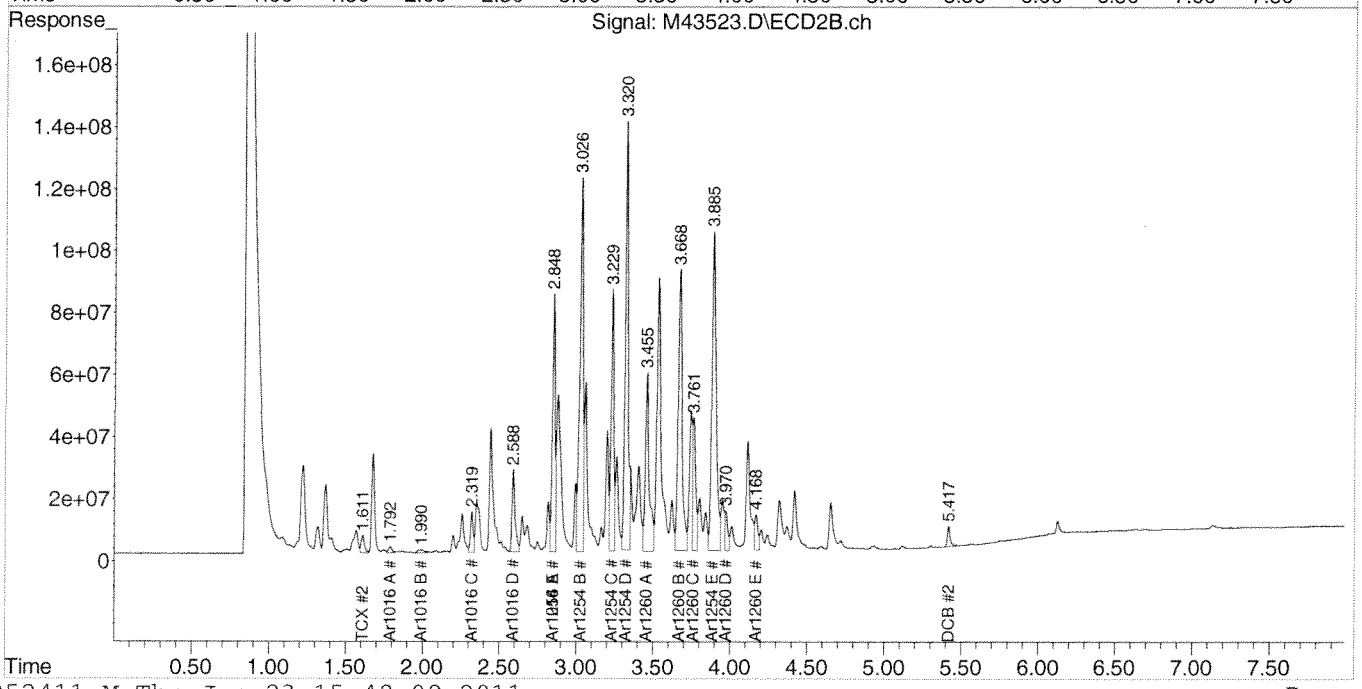
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\062311-M\
Data File : M43523.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Jun 2011 1:33 pm
Operator : JK
Sample : 70198-3,1:25,,A/C
Misc : SOIL
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 23 15:47:59 2011
Quant Method : C:\msdchem\1\METHODS\PCB052411.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Tue Jun 21 12:21:54 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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June 23, 2011

SAMPLE DATA

Lab Sample ID: 70198-4
Matrix: Wipe
Percent Solid: N/A
Dilution Factor: 1.0
Collection Date: 06/15/11
Lab Receipt Date: 06/16/11
Extraction Date: 06/20/11
Analysis Date: 06/21/11

CLIENT SAMPLE ID

Project Name: USM Gorham PCBs
Project Number: 224164
Field Sample ID: AH-VWC-044

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	**0.9**
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	72	%
Decachlorobiphenyl	62	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

PCB Report

Authorized signature Jemma L Lewis

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 70198
Sample: 70198-4,,A/C
Data File: M43451.D
Dilution Factor: 1.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/wipe)	SAMPLE RESULT (ug/wipe)	RPD	#
PCB 1254	0.90	0.79	12.5	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

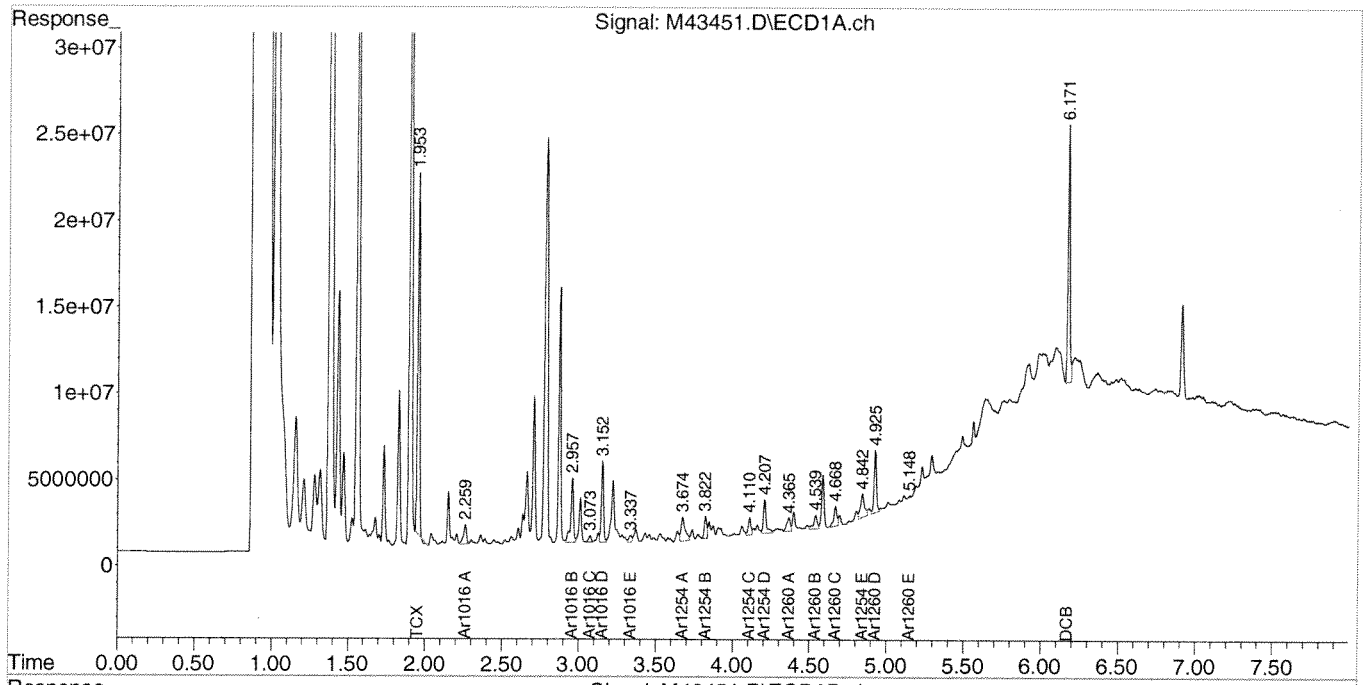
Comments: _____

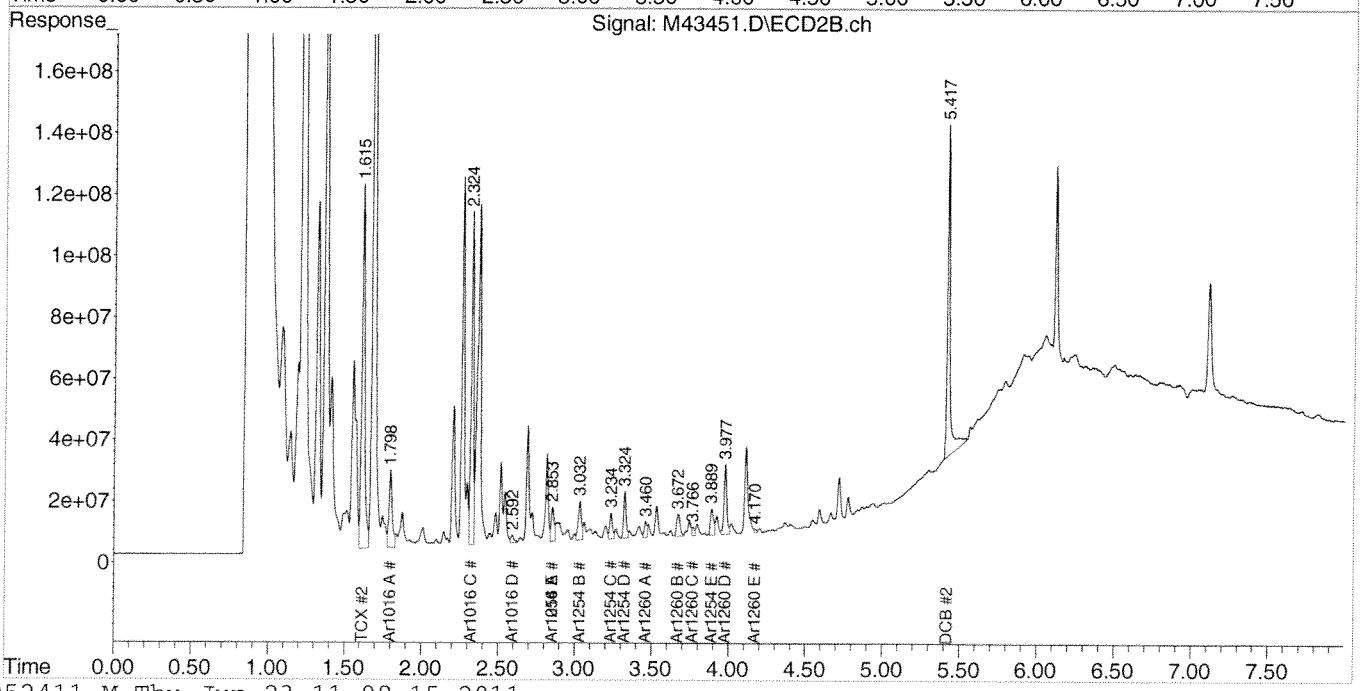
PCB FORM 10

Data Path : C:\msdchem\1\DATA\062111-M\
Data File : M43451.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Jun 2011 11:39 pm
Operator : JK
Sample : 70198-4,,A/C
Misc : SOIL
ALS Vial : 32 Sample Multiplier: 1

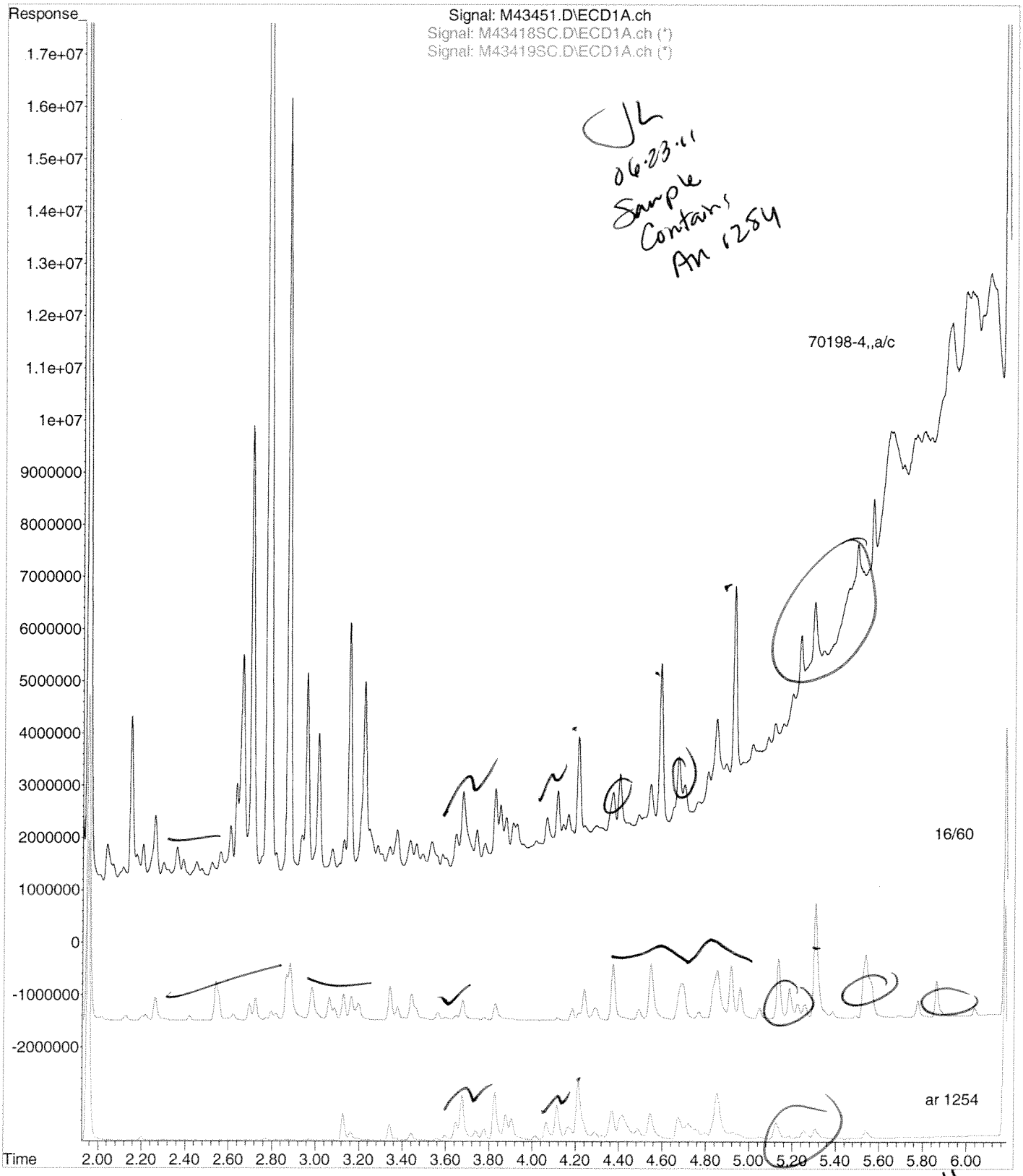
Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 23 11:07:52 2011
Quant Method : \\Hpdos13-m\c drive\msdchem\1\METHODS\PCB052411.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Tue Jun 21 12:21:54 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





File :C:\msdchem\1\DATA\062111-M\M43451.D
Operator : JK
Acquired : 21 Jun 2011 11:39 pm using AcqMethod PCB.M
Instrument : Instrument M
Sample Name: 70198-4,,A/C
Misc Info : SOIL
Vial Number: 32



JL 6.23.11

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June 23, 2011

SAMPLE DATA

Lab Sample ID: 70198-5
Matrix: Wipe
Percent Solid: N/A
Dilution Factor: 1.0
Collection Date: 06/15/11
Lab Receipt Date: 06/16/11
Extraction Date: 06/20/11
Analysis Date: 06/21/11

CLIENT SAMPLE ID

Project Name: USM Gorham PCBs
Project Number: 224164
Field Sample ID: AH-VWC-045

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	**0.78**
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	77	%
Decachlorobiphenyl	80	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 70198
Sample: 70198-5,,A/C
Data File: M43452.D
Dilution Factor: 1.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/kg)	SAMPLE RESULT (ug/kg)	RPD	#
PCB 1254	0.75	0.78	3.4	

Column to be used to flag RPD values greater than QC limit of 40%
* Values outside QC limits

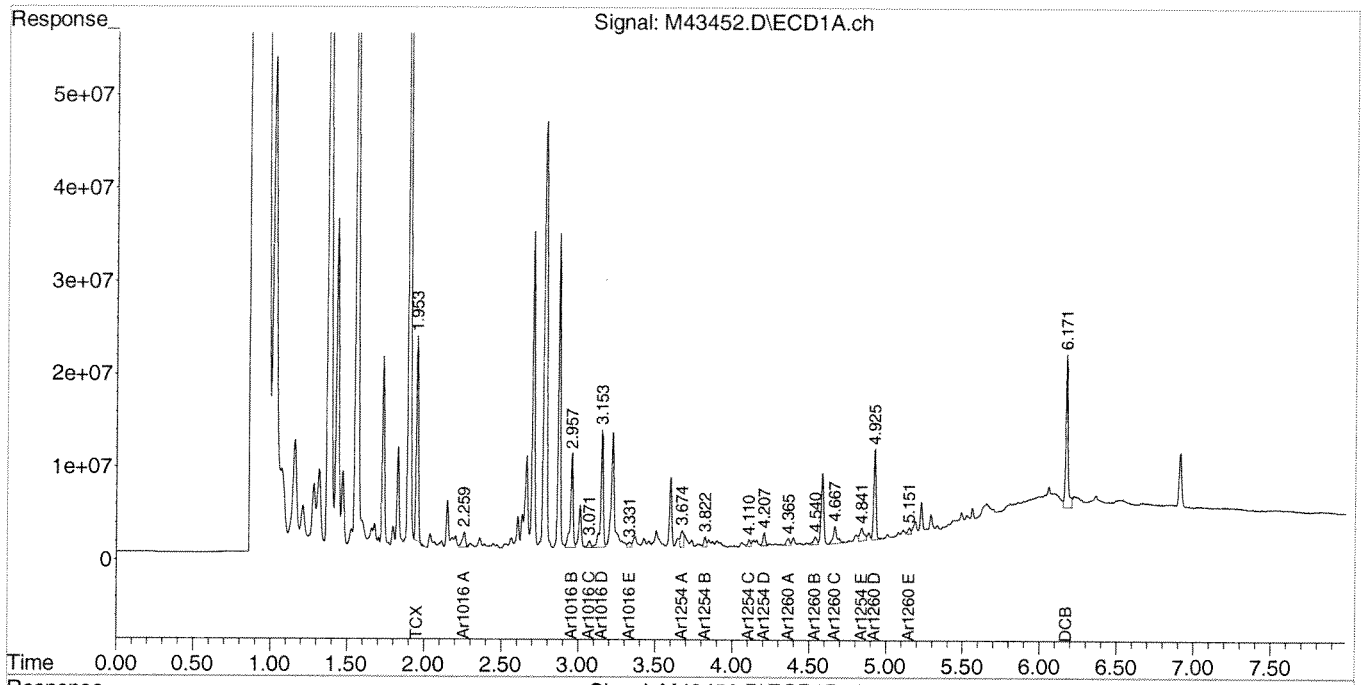
Comments: _____

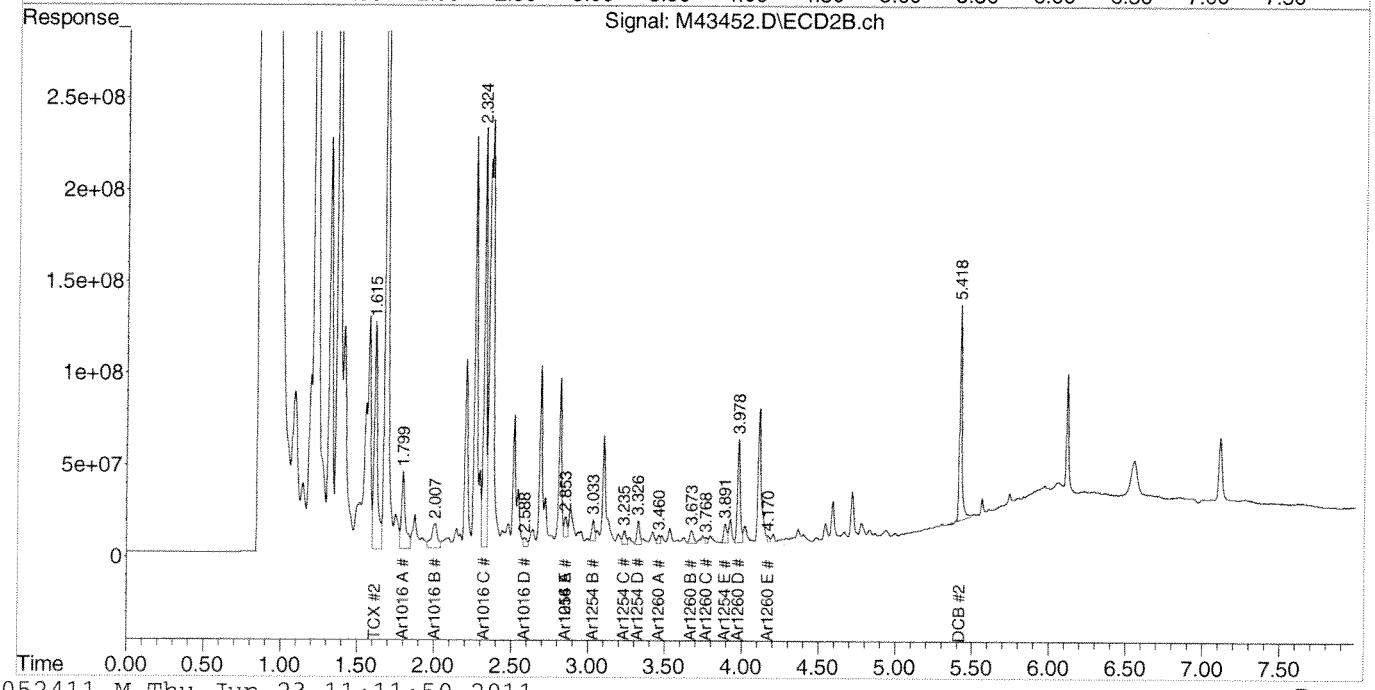
PCB FORM 10

Data Path : C:\msdchem\1\DATA\062111-M\
Data File : M43452.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Jun 2011 11:49 pm
Operator : JK
Sample : 70198-5,,A/C
Misc : SOIL
ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 23 11:11:28 2011
Quant Method : \\Hpdos13-m\c drive\msdchem\1\METHODS\PCB052411.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Tue Jun 21 12:21:54 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



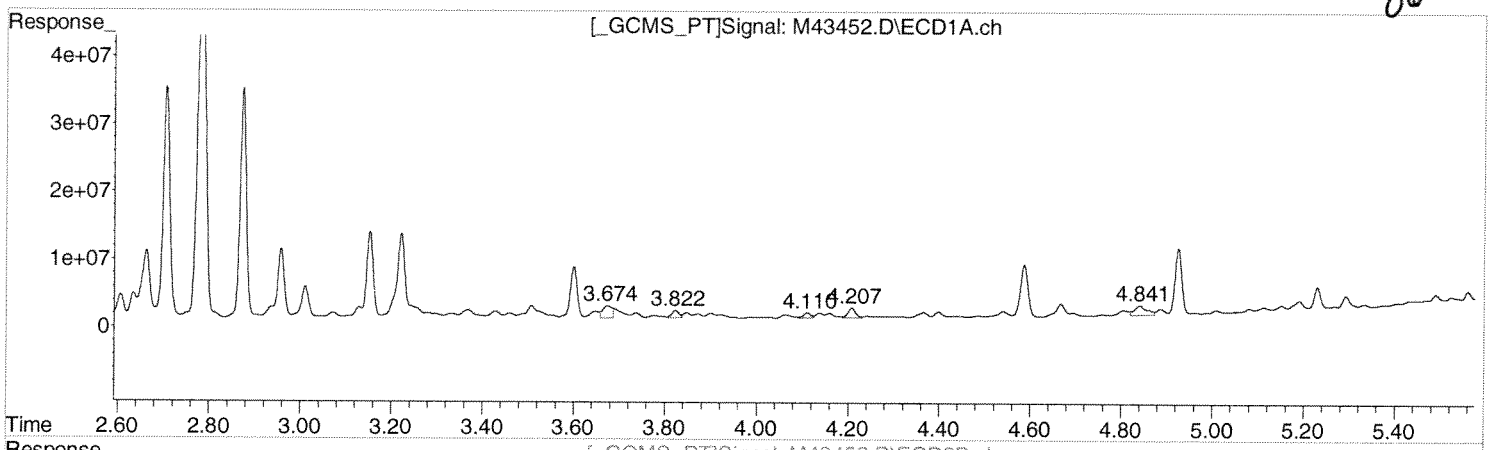


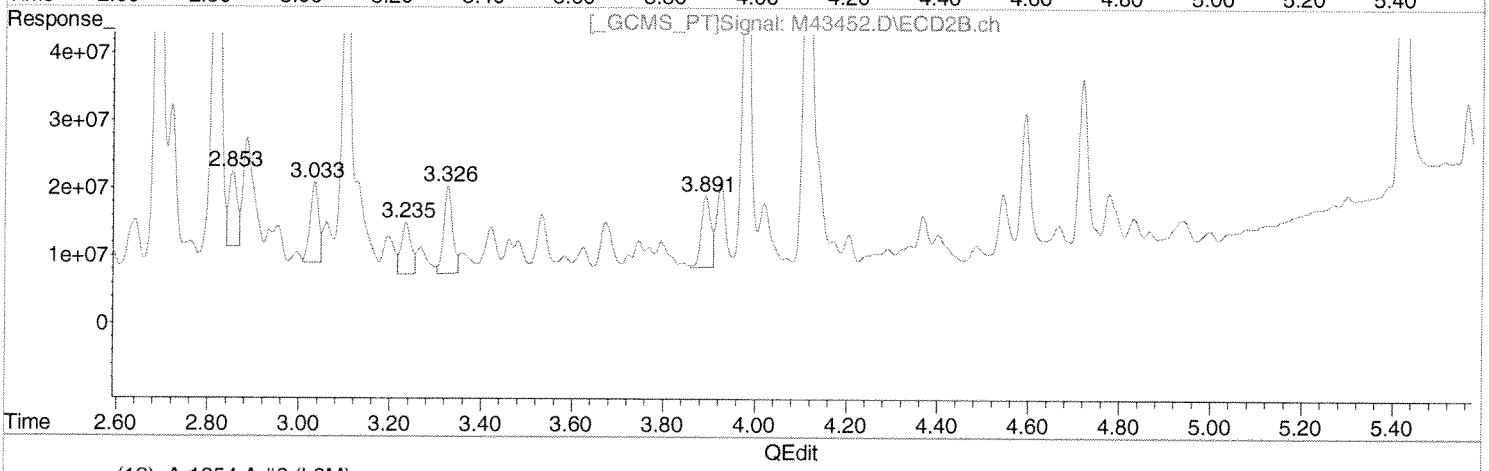
Data Path : C:\msdchem\1\DATA\062111-M\
Data File : M43452.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Jun 2011 11:49 pm
Operator : JK
Sample : 70198-5,,A/C
Misc : SOIL
ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 23 08:58:19 2011
Quant Method : \\Hpdos13-m\c drive\msdchem\1\METHODS\PCB052411.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Tue Jun 21 12:21:54 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um

JK 06.23.11





(12) Ar1254 A #2 (L3M)

R.T.	Response	Conc
3.67	24649996	0.25
3.82	12199991	0.12
4.11	8517468	0.11
4.21	17086465	0.11
4.84	26220892	0.16

(12) Ar1254 A #2 (L3M)

R.T.	Response	Conc
2.85	138051302	0.22
3.03	150328232	0.13
3.23	117409701	0.17
3.33	174362446	0.15
3.89	150251722	0.11

JK 6.23.11

(+) = Expected Retention Time
PCB052411.M Thu Jun 23 11:11:44 2011

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June 23, 2011

SAMPLE DATA

Lab Sample ID:	70198-6
Matrix:	Solid
Percent Solid:	98
Dilution Factor:	1.0
Collection Date:	06/15/11
Lab Receipt Date:	06/16/11
Extraction Date:	06/20/11
Analysis Date:	06/21/11

CLIENT SAMPLE ID

Project Name:	USM Gorham PCBs
Project Number:	224164
Field Sample ID:	AH-VBC-046

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	33	U
PCB-1221	33	U
PCB-1232	33	U
PCB-1242	33	U
PCB-1248	33	U
PCB-1254	33	**213**
PCB-1260	33	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	127	%
Decachlorobiphenyl	101	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

COMMENTS: Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Results are expressed on a dry weight basis.

PCB Report

Authorized signature Jemma J. Lewis

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 70198
Sample: 70198-6,,A/C
Data File: M43453.D
Dilution Factor: 1.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/kg)	SAMPLE RESULT (ug/kg)	RPD	#
PCB 1254	213	159	28.8	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

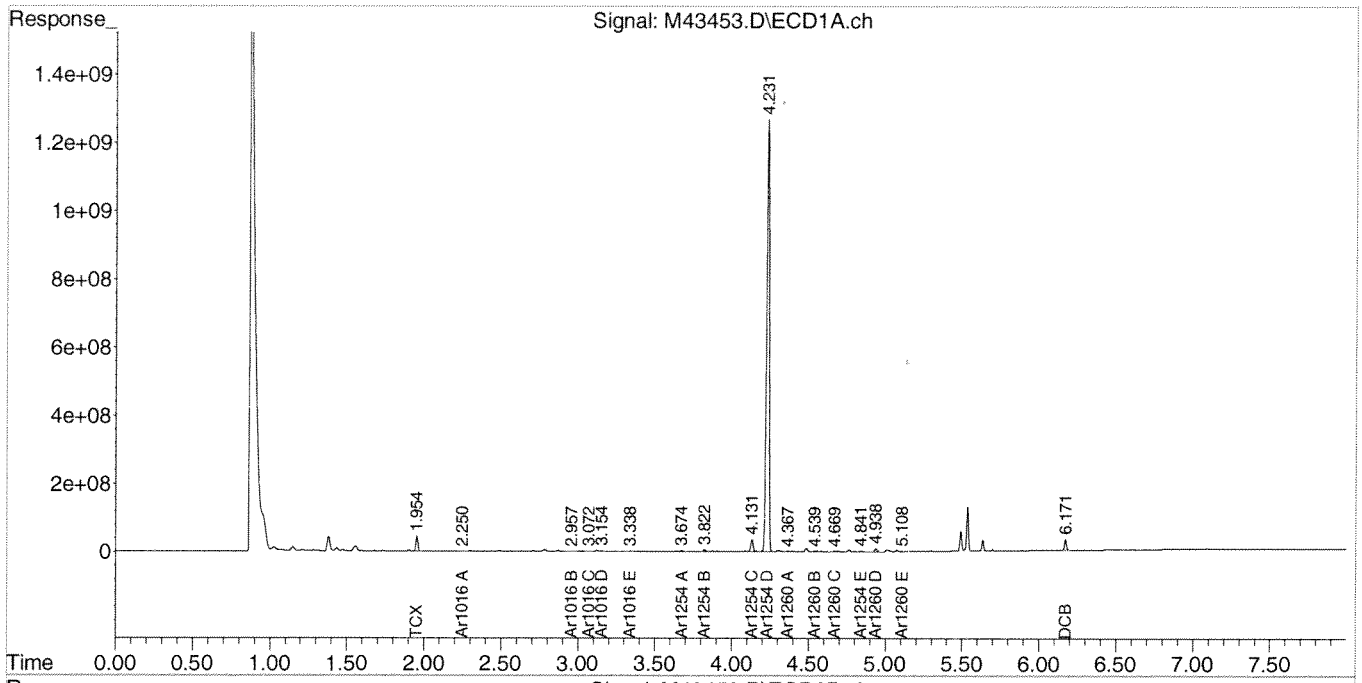
Comments: _____

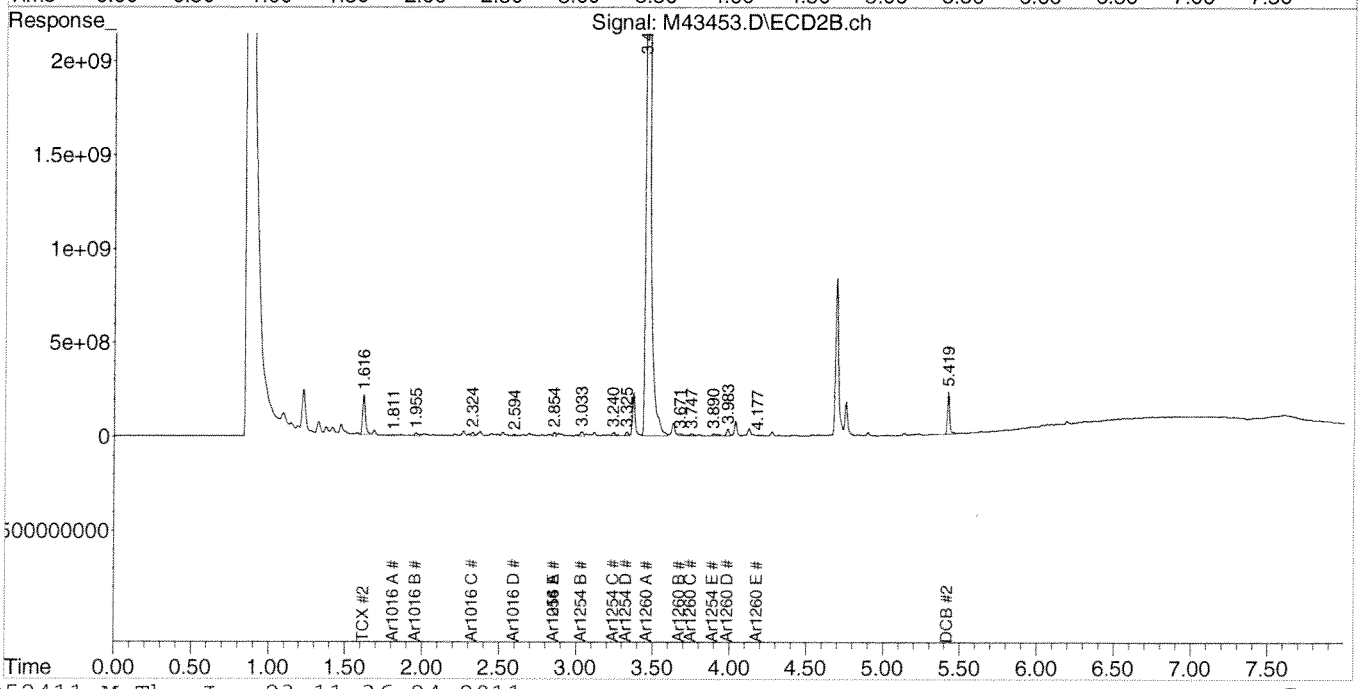
PCB FORM 10

Data Path : C:\msdchem\1\DATA\062111-M\
Data File : M43453.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Jun 2011 11:59 pm
Operator : JK
Sample : 70198-6,,A/C
Misc : SOIL
ALS Vial : 34 Sample Multiplier: 1

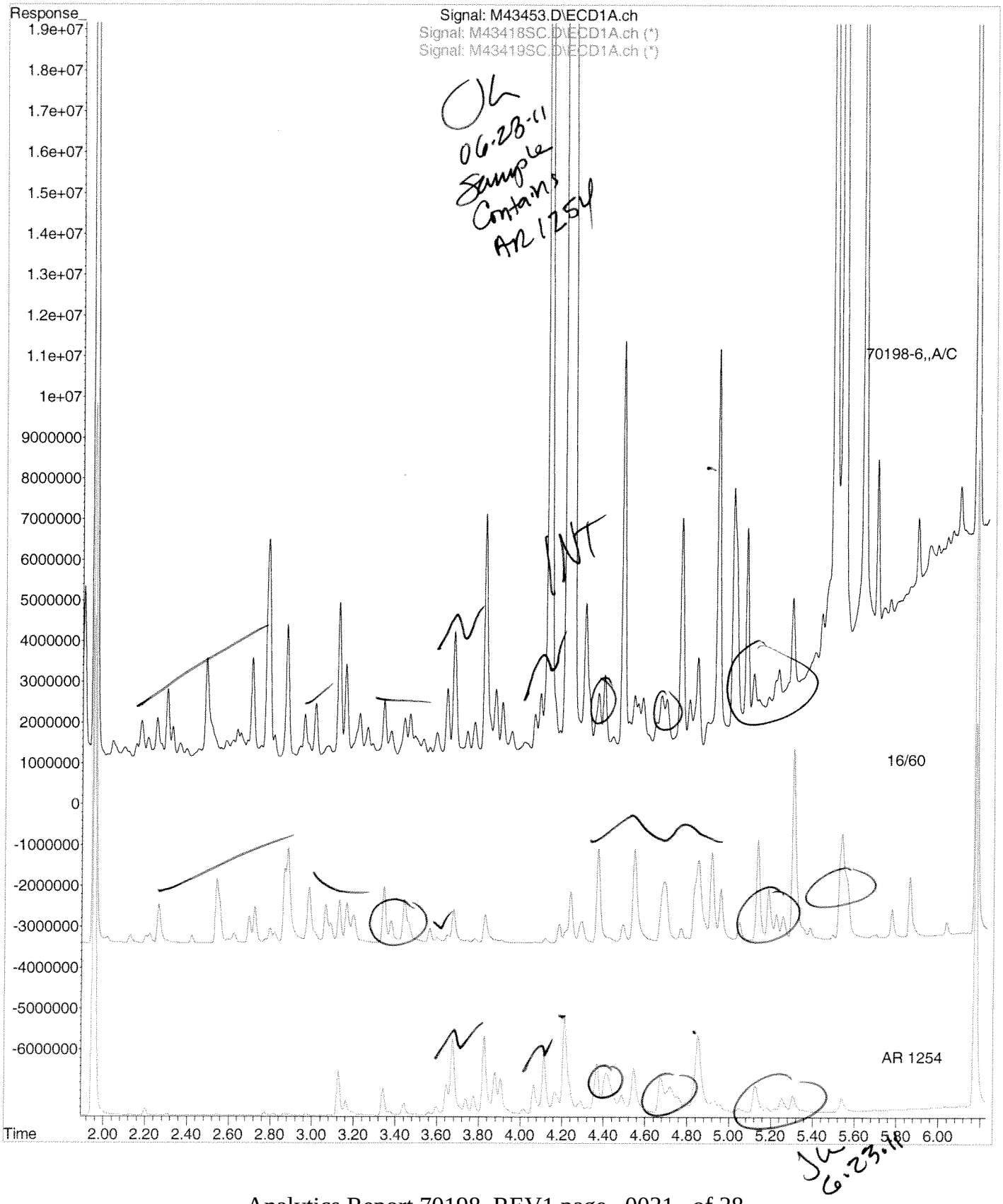
Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 23 11:36:15 2011
Quant Method : \\Hpdos13-m\c drive\msdchem\1\METHODS\PCB052411.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Tue Jun 21 12:21:54 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





File :C:\msdchem\1\DATA\062111-M\M43453.D
Operator : JK
Acquired : 21 Jun 2011 11:59 pm using AcqMethod PCB.M
Instrument : Instrument M
Sample Name: 70198-6,,A/C
Misc Info : SOIL
Vial Number: 34



PCB
QC FORMS

AnalyticsLLC:AEL Documents LLC:Pkg Dividers:PCBQC.doc

PCB SOIL
SYSTEM MONITORING COMPOUNDS
SUMMARY

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 70198

	Column #1				Column #2			
SAMPLE ID	SMC 1 (%)	#	SMC 2 (%)	#	SMC 1 (%)	#	SMC 2 (%)	#
B062011PSOX2,,A/C	77		76		81		72	
L062011PSOX2,,A/C	80		77		83		72	
LD062011PSOX2,,A/C	74		75		80		71	
70198-1,,A/C	65		67		91		47	
70198-2,,A/C	68		77		66		44	
70198-4,,A/C	72		62		73		56	
70198-5,,A/C	77		80		84		55	
70198-6,,A/C	156	*	128		127		101	

		Lower Limit	Upper Limit
SMC #1 =	TCX	40	130
SMC #2 =	DCB	40	130

Column to be used to flag recovery values outside of QC limits
* Values outside QC limits
D System Monitoring Compound diluted out

PCB SOIL
SYSTEM MONITORING COMPOUNDS
SUMMARY

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 70198

	Column #1				Column #2			
SAMPLE ID	SMC 1 (%)	#	SMC 2 (%)	#	SMC 1 (%)	#	SMC 2 (%)	#
B062011PSOX2,RR,,A/C	81		76		85		76	
70198-3,1:25,,A/C	D		D		D		D	

		Lower Limit	Upper Limit
SMC #1 =	TCX	40	130
SMC #2 =	DCB	40	130

Column to be used to flag recovery values outside of QC limits
* Values outside QC limits
D System Monitoring Compound diluted out

PCB SOIL
LABORATORY CONTROL SAMPLE/DUPLICATE
PERCENT RECOVERY

Instrument ID: M

GC Column #1: STX-CLPesticides I

Column ID: 0.25 mm

GC Column #2: STX-CLPesticides II

Column ID: 0.25 mm

SDG: 70198

Non-spiked sample: B062011PSOX2,,A/C

Spike: L062011PSOX2,,A/C

Spike duplicate: LD062011PSOX2,,A/C

COMPOUND	LCS SPIKE ADDED (ug/kg)	LCSD SPIKE ADDED (ug/kg)	LOWER LIMIT	UPPER LIMIT	RPD LIMIT	NON-SPIKE RESULT (ug/kg)	SPIKE RESULT (ug/kg)	SPIKE % REC	#	SPIKE DUP RESULT (ug/kg)	SPIKE DUP % REC	#	RPD	#
PCB 1016	200	200	65	140	30	0	239	120		229	115		4.3	
PCB 1260	200	200	60	130	30	0	255	127		220	110		14.7	
PCB 1016 #2	200	200	65	140	30	0	268	134		250	125		6.9	
PCB 1260 #2	200	200	60	130	30	0	281	141	*	258	129		8.7	

Column to be used to flag recovery and RPD values outside of QC limits

* Values outside QC limits

LCS/LCSD spike added values have been weight adjusted.

Non-spike result of "0" used in place of "U" to allow calculation of spike recovery.

Comments: _____

_____

CHAIN OF CUSTODIES

Chain Of Custody Form

analytics environmental laboratory LLC

195 Commerce Way, Suite E
Portsmouth, NH 03801
(800) 929-9906

(603) 436-5111
(603) 430-2151 Fax

Project#: 224164 Proj. Name: USM Gorham PCBs
Company: Woodard + Curran
Report to: Amy Wallace, Scott Luczko
Address: 41 Hutchins Dr.
Portland, ME 04102
Phone: 207-774-2112
Quote #:
PO# (if required):

For Analytics Use Only

Samples were:
1) Shipped or ~~Hand-delivered~~
2) Temperature (°C): 3.4
3) Received in good condition: (Y) or N
4) pH checked by: N/A
5) Labels checked by: JBB 6/16/11

Circle and/or Write Required Analysis

Matrix Key:
C = Concrete, WP = Wipe, WW = Wastewater, SW = Surface Water, E = Extract, GW = Groundwater, DW = Drinking Water, S = Soil / Sludge, O = Oil, X = Other

Station Identification	Sample Date	Sample Time	Preservation: Unpres	4° C	HNO_3	H_2SO_4	HCl	Methanol	Other	Field Filtered? Y or N	VOC: 8260 524.2 624	SVOC: 8270 625 PAH only SIM	Pesticides: 8081 608	PCB: 8082 608 Soxhlet (Y) or N	TPH: 8015DRO 8015GRO 8100M	EPH: Full (includes targets) Ranges only	VPH: Full (includes targets) Ranges only	Metals: RCRA8 PP13 TAL23 Other*	Matrix	No. of Containers	pH checked	Analytics Sample #
AH - VBC - 040	6/10/11	10:15		X										X					C	1		70198-1
~~AH - VWE - 041~~	~~6/13/11~~	~~12:45~~		~~X~~					~~X~~					~~X~~					~~WP~~	~~1~~		*
AH - VWE - 042	6/13/11	1220		X					X					X					WP	1		-2
AH - VWE - 043	6/15/11	1315		X					X					X					WP	1		-3
AH - VWC - 044	6/15/11	1520		X					X					X					WP	1		-4
AH - VWC - 045	6/15/11	1525		X					X					X					WP	1		-5
AH - VBC - 046	6/15/11	1535		X										X					C	1		-6

Email Results to:
sluczko@woodardcurran.com
awallace@woodardcurran.com

Comments, Additional Analyses, or Special Instructions: * List requested metals here

PCBs 8082 w/Soxhlet Extraction

* SL called 6/16/11 to cancel sample "AH-VWE-041" SHC 6/16/11

Turnaround Time (TAT)
- [ ] 24 Hours*
- [ ] 48 Hours*
- [ ] 72 Hours*
- [X] 5 Days*
- [ ] 10 Days

*Fee may apply; lab approval required

Project Requirements: *Fee may apply

Report Type:
- [ ] MCP*
- [ ] CTRCP*
- [ ] DOD*
- [ ] Level II*
- [ ] Level III*
- [ ] Level IV*
- [ ] Standard

State:
- [ ] NH
- [ ] MA
- [X] ME
- [ ] CT
- [ ] RI

Other:

State Standard: (eg. S-1 or GW-1)

EDD Required: Y* N

Type: PDF

Sampler Name (Print): Scott Luczko				
Relinquished By Sampler: [signature]	Date: 6/15/11	Time: 1645	Received By: Cold Storage	
Relinquished By: Cold Storage	Date: 6/16/11	Time: 11:47	Received By: [signature]	
Relinquished By:	Date:	Time:	Received By:	

Page ___ of ___

analytics environmental laboratory LLC

ANALYTICS SAMPLE RECEIPT CHECKLIST

AEL LAB#: 7048

CLIENT: Woodard + Curran

PROJECT: 224164

COOLER NUMBER: 99 \ 196

NUMBER OF COOLERS: 2

DATE RECEIVED: 6/16/11

A: PRELIMINARY EXAMINATION:

DATE COOLER OPENED: 6/16/11

1. Cooler received by(initials): DW

Date Received: 6/16/11

2. Circle one: Hand delivered (If so, skip 3) Shipped

3. Did cooler come with a shipping slip? Y N/A

3a. Enter carrier name and airbill number here: —

4. Were custody seals on the outside of cooler? Y N/A
How many & where: — Seal Date: — Seal Name: —

5. Did the custody seals arrive unbroken and intact upon arrival? Y N/A

6. COC: N/A

7. Were Custody papers filled out properly (ink,signed, etc)? Y N

8. Were custody papers sealed in a plastic bag? Y N

9. Did you sign the COC in the appropriate place? Y N

10. Was the project identifiable from the COC papers? Y N

11. Was enough ice used to chill the cooler? Y N Temp. of cooler: 2.4 \ 2.1 °C

B. Log-In: Date samples were logged in: 6/16/11 By: MJG

12. Type of packing in cooler(bubble wrap, popcorn) Y N

13. Were all bottles sealed in separate plastic bags? Y N

14. Did all bottles arrive unbroken and were labels in good condition? Y N

15. Were all bottle labels complete(ID,Date,time,etc.) Y N

16. Did all bottle labels agree with custody papers? Y N

17. Were the correct containers used for the tests indicated: Y N

18. Were samples received at the correct pH? Y JBB 6/16/11 N/A

19. Was sufficient amount of sample sent for the tests indicated? Y N

20. Were all samples submitted within holding time? Y N

21. Were bubbles absent in VOA samples? Y N/A

If NO. List Sample ID's and Lab #s: —

22. Laboratory labeling verified by (initials): JBB Date: 6/16/11

analytics environmental laboratory LLC

195 Commerce Way Suite E
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906
www.analyticslab.com

June 24, 2011

Ms. Amy Wallace
Woodard & Curran
35 NE Business Center Suite 180
Andover MA 01810

RE: Analytical Results Case Narrative
Analytics # 70235
USM-Gorham Project No: 224164

Dear Ms. Wallace;

Enclosed please find the analytical results for samples submitted for the above-mentioned project. The attached Cover Page lists the sample IDs, Lab tracking numbers and collection dates for the samples included in this deliverable.

Samples were analyzed Polychlorinated Biphenyls (PCBs) by EPA Method 8082.

Unless otherwise noted in the Non-conformance Summary listed below, all of the quality control (QC) criteria including initial calibration, calibration verification, surrogate recovery, holding time and method accuracy/precision for these analyses were within acceptable limits.

This Level II data package has been assembled in the following order:

Case Narrative/Non-Conformance Summary
Sample Log Sheet - Cover Page
PCB Form 1 Data Sheet for Samples and Blanks
Chromatograms
PCB Form 10 Confirmation Results
PCB Form 3 MS/MSD (LCS) Recoveries
Chain of Custody (COC) Forms

QC NON-CONFORMANCE SUMMARY

Sample Receipt:
No exceptions.

PCBs by EPA Method 8082:
No results were reported below the quantitation limit.

Sample 70235-4 required dilution due to high concentrations of PCBs in the sample.

If you have any questions on these results, please do not hesitate to contact me.

Sincerely,
ANALYTICS Environmental Laboratory, LLC

Stephen L. Knollmeyer
Laboratory Director

analytics environmental laboratory LLC

195 Commerce Way Suite E
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906
www.analyticslab.com

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

Report Number: 70235

Revision: Rev. 0

Re: USM Gorham PCBs (Project No: 224164)

Enclosed are the results of the analyses on your sample(s). Samples were received on 21 June 2011 and analyzed for the tests listed. Samples were received in acceptable condition, with the exceptions noted below or on the chain of custody. These results pertain to samples as received by the laboratory and for the analytical tests requested on the chain of custody. The results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. Please see individual reports for specific methodologies and references.

Lab Number	Sample Date	Station Location	Analysis	Comments
70235-1	06/17/11	AH-VWE-047	EPA 8082 (PCBs only)	
70235-2	06/17/11	AH-VWC-048	EPA 8082 (PCBs only)	
70235-3	06/17/11	AH-VWC-049	EPA 8082 (PCBs only)	
70235-4	06/21/11	UH-CBK-050	EPA 8082 (PCBs only)	

Sample Receipt Exceptions: None

Analytics Environmental Laboratory is certified by the states of New Hampshire, Maine, Massachusetts, Connecticut, Rhode Island, Virginia, Maryland, and is accredited by the Deparment of Defense (DOD) ELAP program. A list of actual certified parameters is available upon request.

If you have any questions on these results, please do not hesitate to contact us.

Authorized signature _____
Stephen L. Knollmeyer Lab. Director

Date 06/24/2011

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analytics environmental laboratory LLC

Surrogate Compound Limits

Matrix:	Aqueous	Solid	
Units:	% Recovery	% Recovery	Method
Volatile Organic Compounds - Drinking Water			
1,4-Difluorobenzene	70-130		EPA 524.2
Bromofluorobenzene	70-130		
1,2-Dichlorobenzene-d4	70-130		
Volatile Organic Compounds			
1,2-Dichloroethane-d4	70-120	70-120	EPA 624/8260B
Toluene-d8	85-120	85-120	
Bromofluorobenzene	75-120	75-120	
Semi-Volatile Organic Compounds			
2-Fluorophenol	20-110	35-105	EPA 625/8270C
d5-Phenol	15-110	40-100	
d5-nitrobenzene	40-110	35-100	
2-Fluorobiphenyl	50-110	45-105	
2,4,6-Tribromophenol	40-110	40-125	
d14-p-terphenyl	50-130	30-125	
PAH's by SIM			
d5-nitrobenzene	21-110	35-110	EPA 8270C
2-Fluorobiphenyl	36-121	45-105	
d14-p-terphenyl	33-141	30-125	
Pesticides and PCBs			
2,4,5,6-Tetrachloro-m-xylene (TCX)	46-122	40-130	EPA 608/8082
Decachlorobiphenyl (DCB)	40-135	40-130	
Herbicides			
Dichloroacetic acid (DCAA)	30-150	30-150	
Gasoline Range Organics/TPH Gasoline			
Trifluorotoluene TFT (FID)	60-140	60-140	MEDEP 4217/EPA 8015
Bromofluorobenzene (BFB) (FID)	60-140	60-140	
Trifluorotoluene TFT (PID)	60-140	60-140	
Bromofluorobenzene (BFB) (PID)	60-140	60-140	
Diesel Range Organics/TPH Diesel			
m-terphenyl	60-140	60-140	MEDEP 4125/EPA 8015/CT ETPH
Volatile Petroleum Hydrocarbons			
2,5-Dibromotoluene (PID)	70-130	70-130	MADEP VPH May 2004 Rev1.1
2,5-Dibromotoluene (FID)	70-130	70-130	
Extracatable Petroleum Hydrocarbons			
1-chloro-octadecane (aliphatic)	40-140	40-140	MADEP EPH May 2004 Rev1.1
o-Terphenyl (aromatic)	40-140	40-140	
2-Fluorobiphenyl (Fractionation)	40-140	40-140	
2-Bromonaphthalene (fractionation)	40-140	40-140	

PCB
DATA SUMMARIES

analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

June 24, 2011

SAMPLE DATA

Lab Sample ID: B062111PSOX
Matrix: Soil
Percent Solid: N/A
Dilution Factor: 1.0
Collection Date:
Lab Receipt Date:
Extraction Date: 06/21/11
Analysis Date: 06/23/11

CLIENT SAMPLE ID

Project Name: USM Gorham PCBs
Project Number: 224164
Field Sample ID: Lab QC

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	33	U
PCB-1221	33	U
PCB-1232	33	U
PCB-1242	33	U
PCB-1248	33	U
PCB-1254	33	U
PCB-1260	33	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	76	%
Decachlorobiphenyl	74	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

COMMENTS: Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Results are expressed on a dry weight basis.

PCB Report

Authorized signature

analytics environmental laboratory LLC

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Portsmouth, New Hampshire 03801
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800-929-9906

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

June 24, 2011

SAMPLE DATA

Lab Sample ID: B062111PSOX
Matrix: Wipe
Percent Solid: N/A
Dilution Factor: 1.0
Collection Date:
Lab Receipt Date:
Extraction Date: 06/21/11
Analysis Date: 06/23/11

CLIENT SAMPLE ID

Project Name: USM Gorham PCBs
Project Number: 224164
Field Sample ID: Lab QC

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	U
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	76	%
Decachlorobiphenyl	74	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

PCB Report

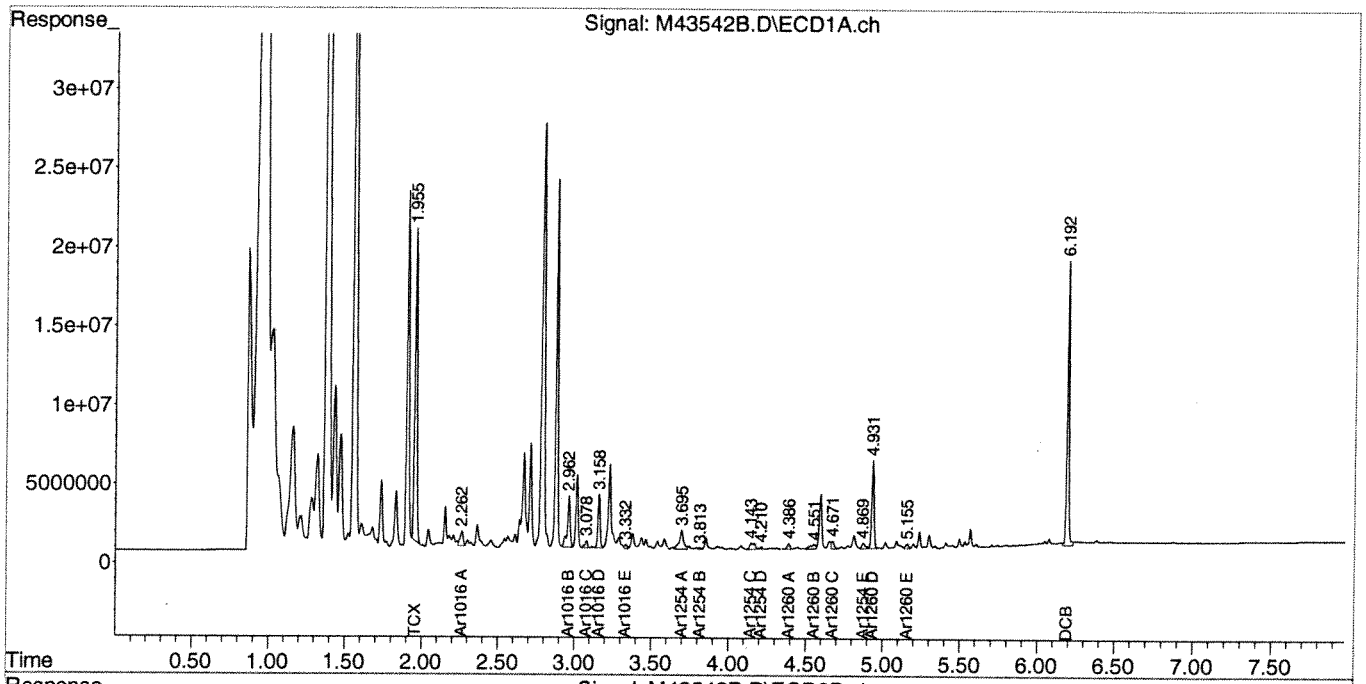
Authorized signature

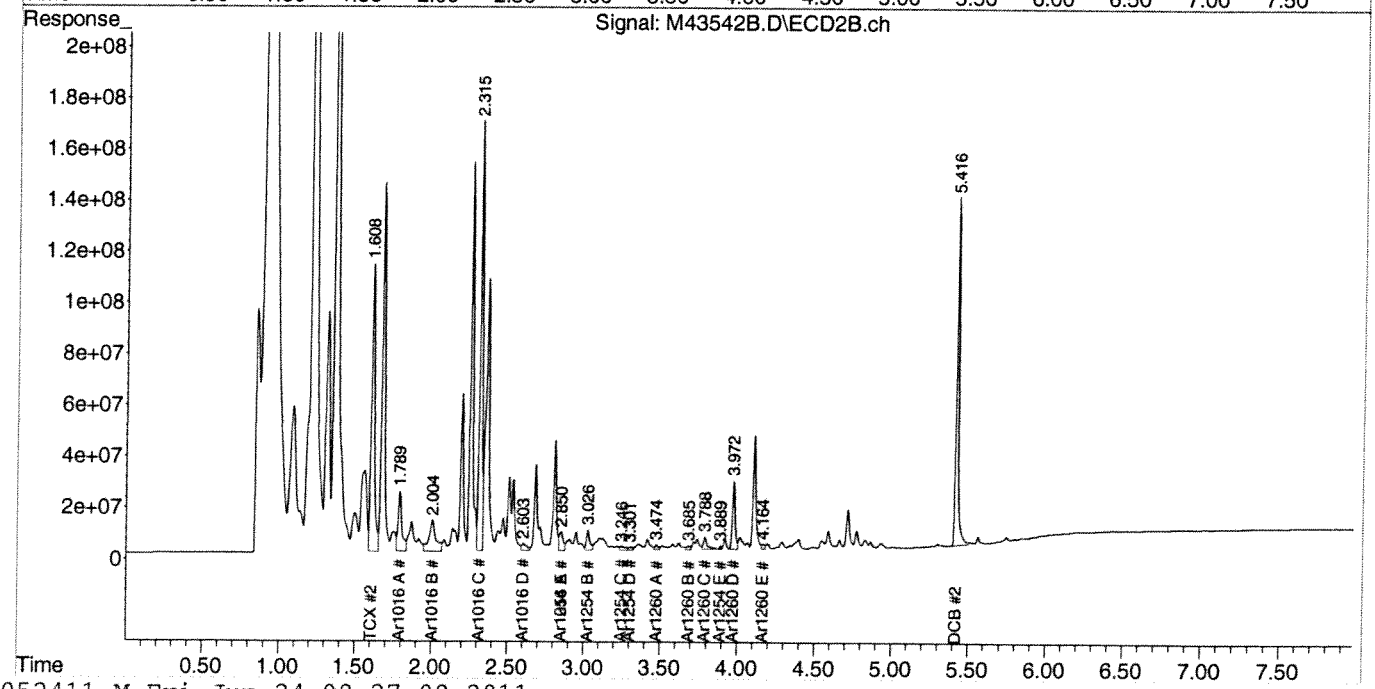
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\062311-M\
Data File : M43542B.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Jun 2011 5:24 pm
Operator : JK
Sample : B062111PSOX,,A/C
Misc : SOIL
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 24 08:26:11 2011
Quant Method : C:\msdchem\1\METHODS\PCB052411.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Tue Jun 21 12:21:52 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





analytics environmental laboratory LLC

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Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

June 24, 2011

SAMPLE DATA

Lab Sample ID: 70235-1
Matrix: Wipe
Percent Solid: N/A
Dilution Factor: 1.0
Collection Date: 06/17/11
Lab Receipt Date: 06/21/11
Extraction Date: 06/21/11
Analysis Date: 06/23/11

CLIENT SAMPLE ID

Project Name: USM Gorham PCBs
Project Number: 224164
Field Sample ID: AH-VWE-047

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	**2.85**
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	72	%
Decachlorobiphenyl	65	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 70235
Sample: 70235-1,,A/C
Data File: M43551.D
Dilution Factor: 1.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/wipe)	SAMPLE RESULT (ug/wipe)	RPD	#
PCB 1254	2.85	2.83	0.7	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

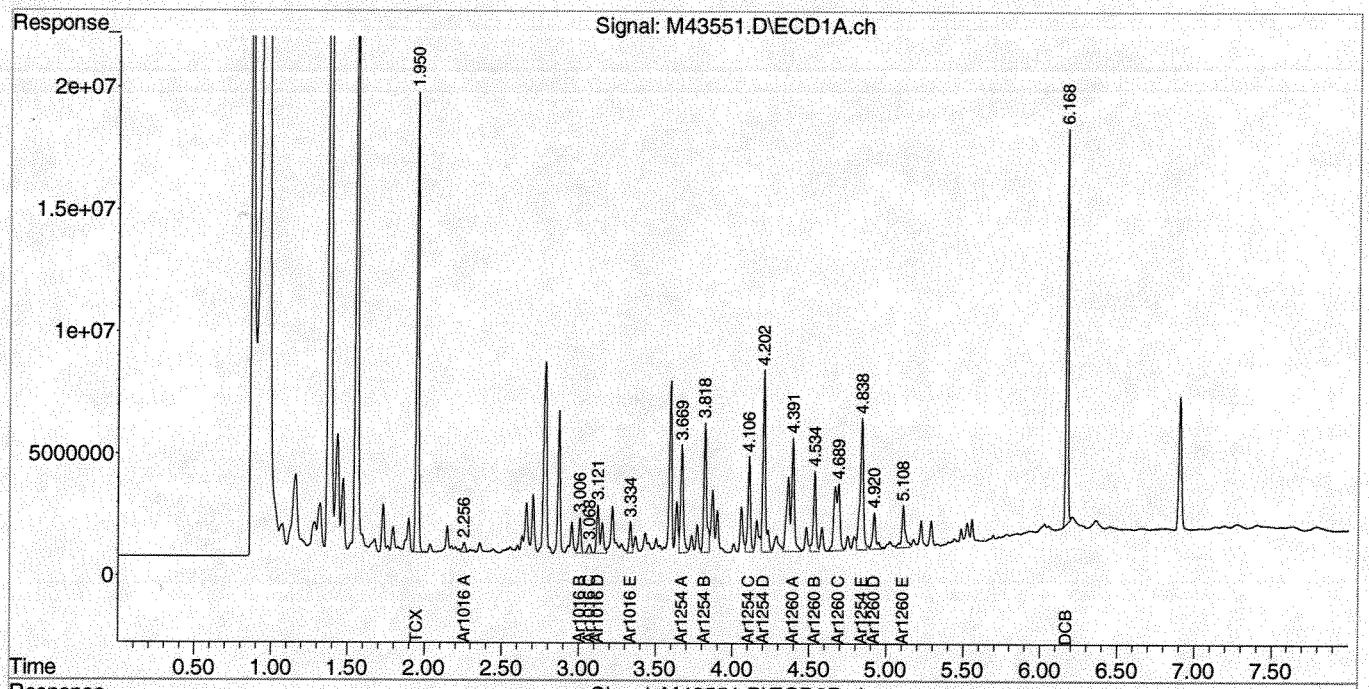
Comments: _____

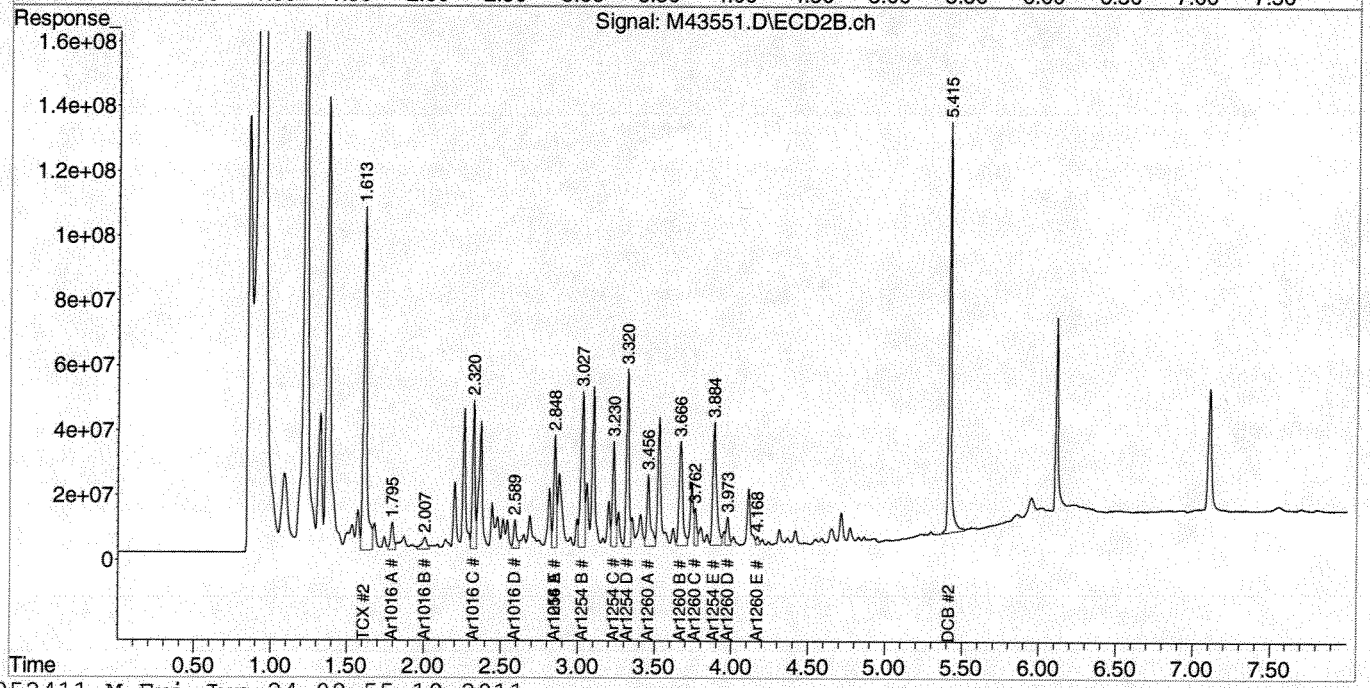
PCB FORM 10

Data Path : C:\msdchem\1\DATA\062311-M\
Data File : M43551.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Jun 2011 6:54 pm
Operator : JK
Sample : 70235-1,,A/C
Misc : SOIL
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 24 08:55:11 2011
Quant Method : C:\msdchem\1\METHODS\PCB052411.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Tue Jun 21 12:21:54 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





analytics environmental laboratory LLC

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Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

June 24, 2011

SAMPLE DATA

Lab Sample ID: 70235-2
Matrix: Wipe
Percent Solid: N/A
Dilution Factor: 1.0
Collection Date: 06/17/11
Lab Receipt Date: 06/21/11
Extraction Date: 06/21/11
Analysis Date: 06/23/11

CLIENT SAMPLE ID

Project Name: USM Gorham PCBs
Project Number: 224164
Field Sample ID: AH-VWC-048

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	U
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	72	%
Decachlorobiphenyl	69	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

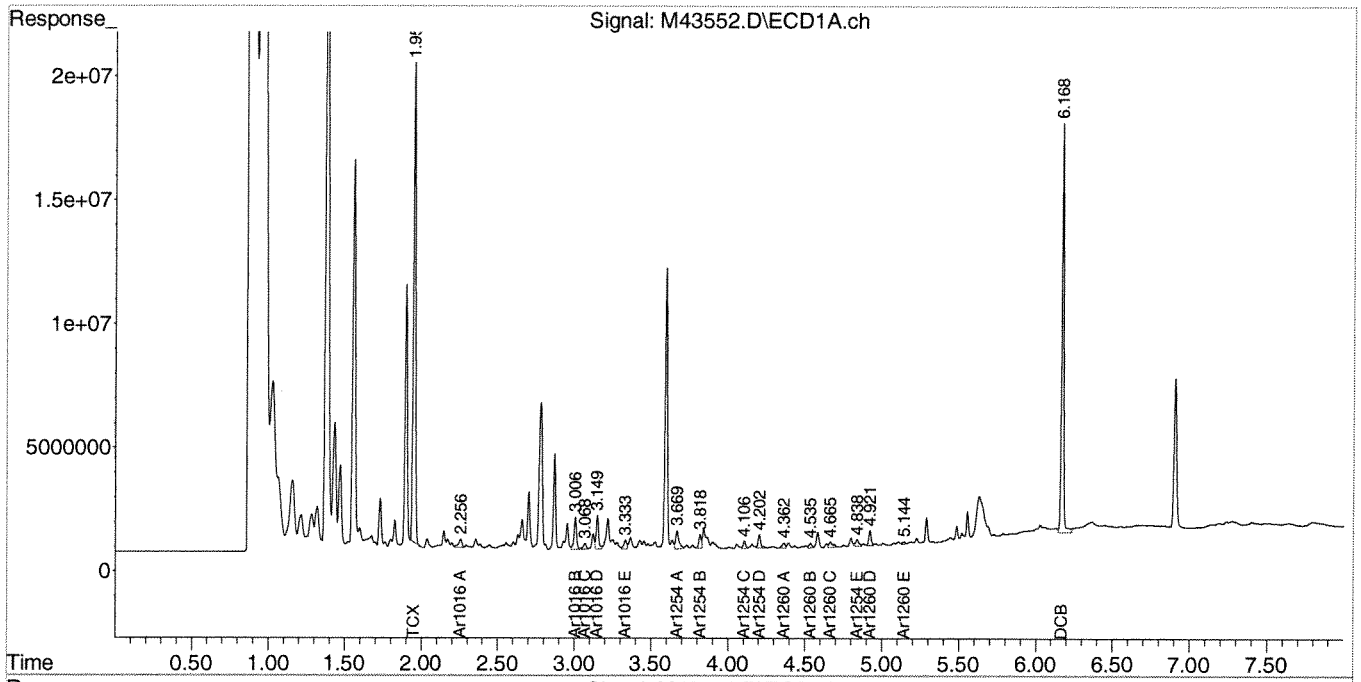
PCB Report

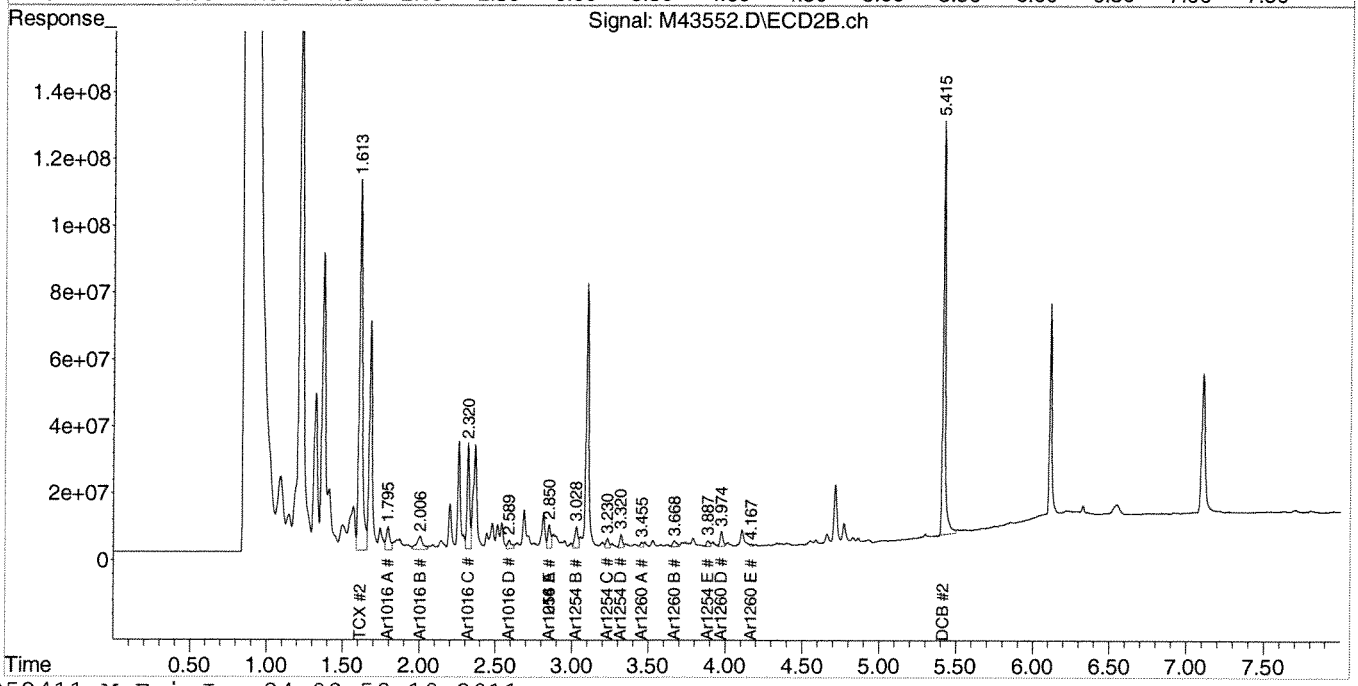
Authorized signature

Data Path : C:\msdchem\1\DATA\062311-M\
Data File : M43552.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Jun 2011 7:04 pm
Operator : JK
Sample : 70235-2,,A/C
Misc : SOIL
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 24 08:26:32 2011
Quant Method : C:\msdchem\1\METHODS\PCB052411.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Tue Jun 21 12:21:54 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

June 24, 2011

SAMPLE DATA

Lab Sample ID: 70235-3
Matrix: Wipe
Percent Solid: N/A
Dilution Factor: 1.0
Collection Date: 06/17/11
Lab Receipt Date: 06/21/11
Extraction Date: 06/21/11
Analysis Date: 06/23/11

CLIENT SAMPLE ID

Project Name: USM Gorham PCBs
Project Number: 224164
Field Sample ID: AH-VWC-049

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	U
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	71	%
Decachlorobiphenyl	72	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

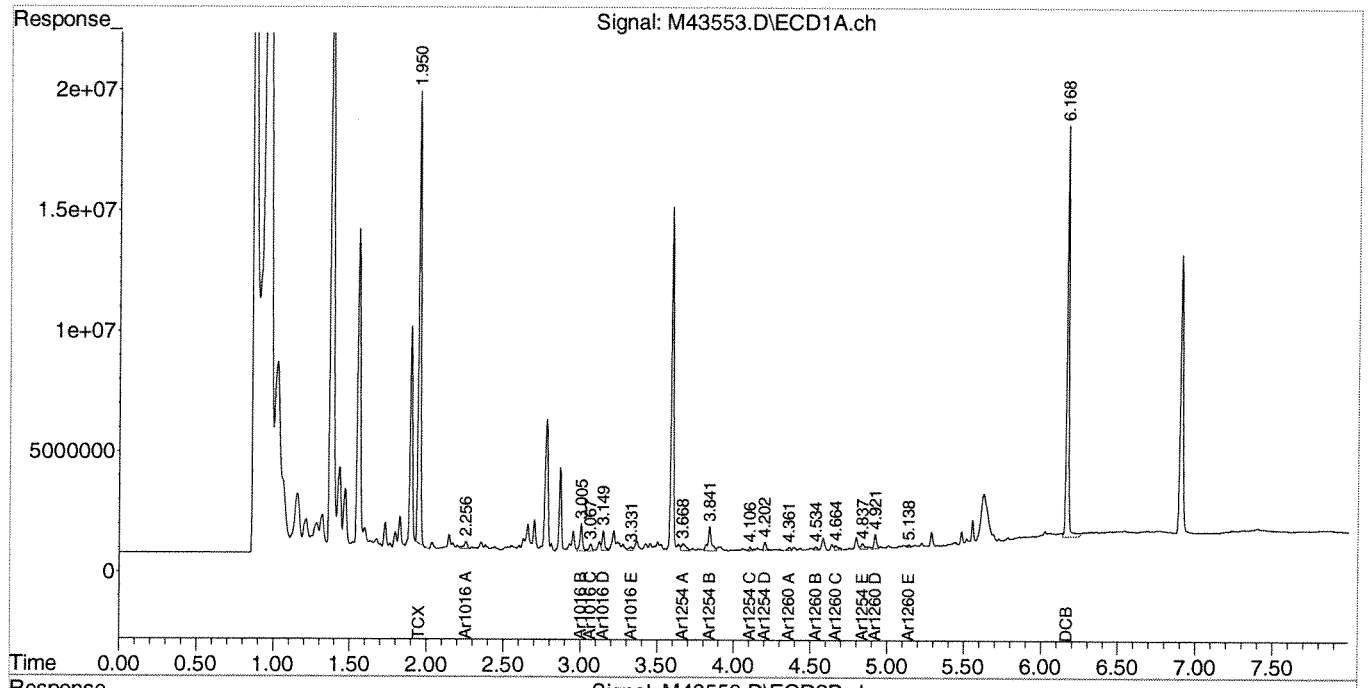
PCB Report

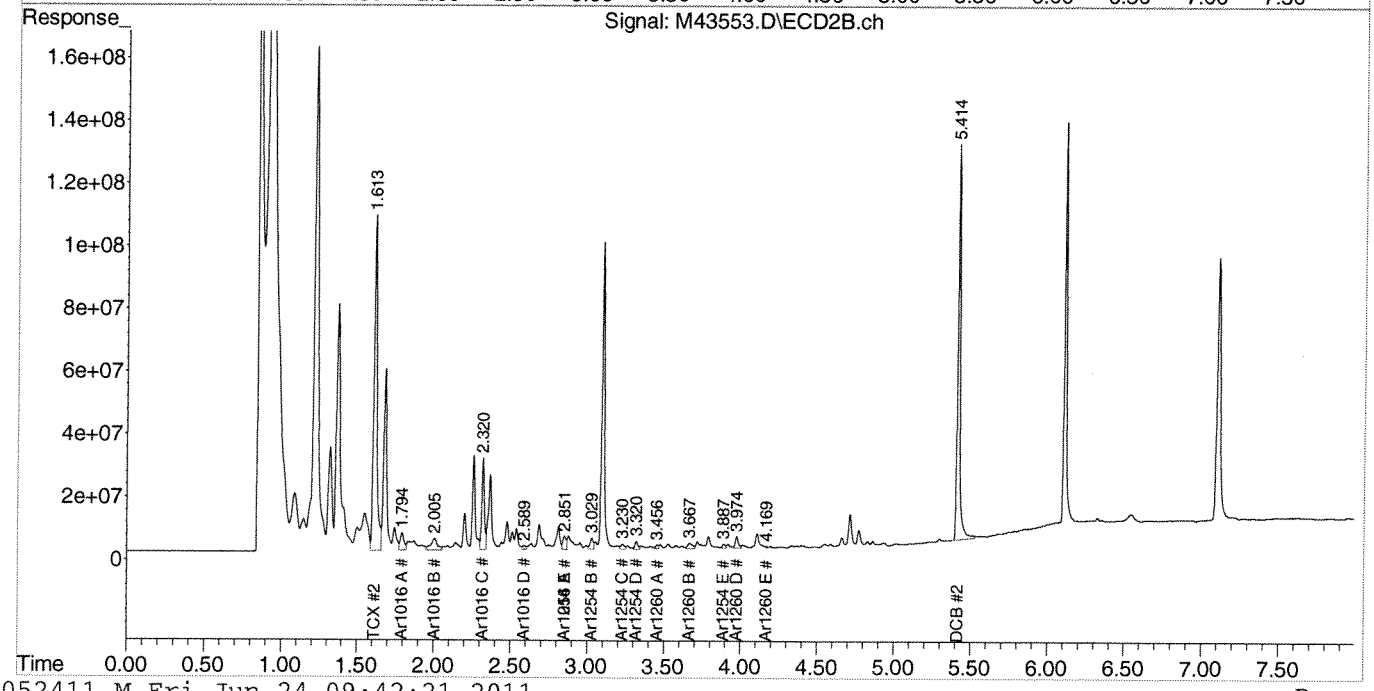
Authorized signature

Data Path : C:\msdchem\1\DATA\062311-M\
Data File : M43553.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Jun 2011 7:14 pm
Operator : JK
Sample : 70235-3,,A/C
Misc : SOIL
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 24 09:09:49 2011
Quant Method : C:\msdchem\1\METHODS\PCB052411.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Tue Jun 21 12:21:54 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

June 24, 2011

SAMPLE DATA

Lab Sample ID: 70235-4
Matrix: Solid
Percent Solid: 99
Dilution Factor: 56
Collection Date: 06/21/11
Lab Receipt Date: 06/21/11
Extraction Date: 06/21/11
Analysis Date: 06/23/11

CLIENT SAMPLE ID

Project Name: USM Gorham PCBs
Project Number: 224164
Field Sample ID: UH-CBK-050

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	1848	U
PCB-1221	1848	U
PCB-1232	1848	U
PCB-1242	1848	U
PCB-1248	1848	U
PCB-1254	1848	**26300**
PCB-1260	1848	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	78	%
Decachlorobiphenyl	79	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

COMMENTS: Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 70235
Sample: 70235-4,1:10,,A/C
Data File: M43554.D
Dilution Factor: 56.2

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/kg)	SAMPLE RESULT (ug/kg)	RPD	#
PCB 1254	26275	23213	12.4	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

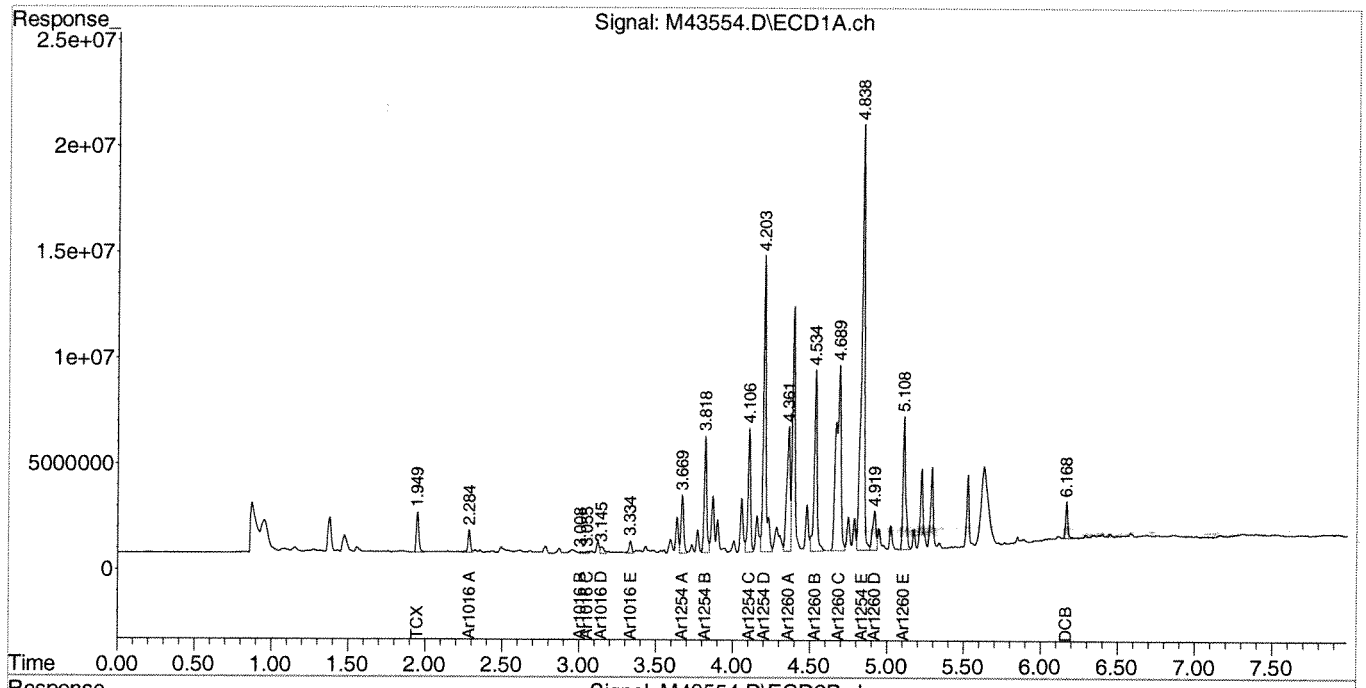
Comments: _____

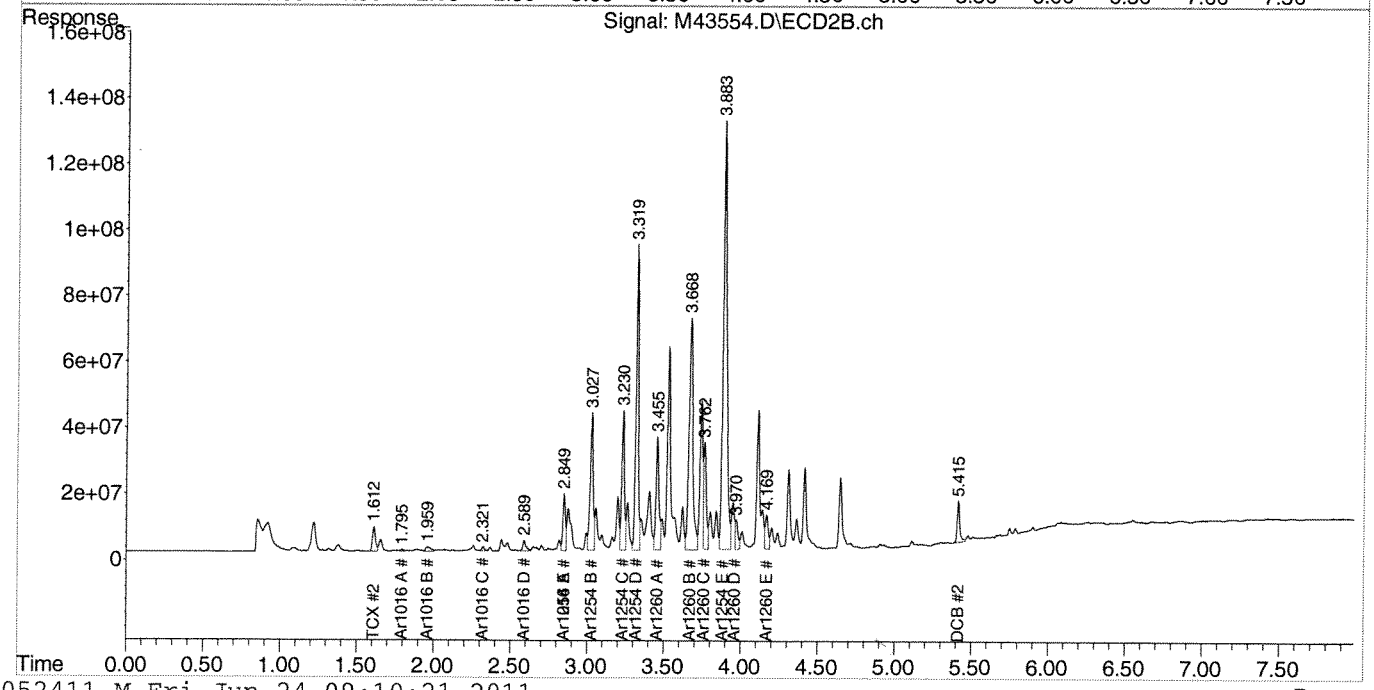
PCB FORM 10

Data Path : C:\msdchem\1\DATA\062311-M\
Data File : M43554.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 Jun 2011 7:25 pm
Operator : JK
Sample : 70235-4,1:10,,A/C
Misc : SOIL
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 24 09:10:16 2011
Quant Method : C:\msdchem\1\METHODS\PCB052411.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Tue Jun 21 12:21:54 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





PCB
QC FORMS

AnalyticsLLC:AEL Documents LLC:Pkg Dividers:PCBQC.doc

PCB SOIL
SYSTEM MONITORING COMPOUNDS
SUMMARY

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 70235

	Column #1				Column #2			
SAMPLE ID	SMC 1 (%)	#	SMC 2 (%)	#	SMC 1 (%)	#	SMC 2 (%)	#
B062111PSOX,,A/C	76		74		77		66	
L062111PSOX,,A/C	79		76		80		68	
LD062111PSOX,,A/C	81		78		79		69	
L062111PSOXW,,A/C	75		69		73		52	
LD062111PSOXW,,A/C	74		68		71		62	
70235-1,,A/C	72		65		71		61	
70235-2,,A/C	72		69		72		59	
70235-3,,A/C	71		72		71		61	
70235-4,1:10,,A/C	78		79		46		63	

		Lower Limit	Upper Limit
SMC #1 =	TCX	40	130
SMC #2 =	DCB	40	130

Column to be used to flag recovery values outside of QC limits
* Values outside QC limits
D System Monitoring Compound diluted out

PCB SOIL
LABORATORY CONTROL SAMPLE/DUPLICATE
PERCENT RECOVERY

Instrument ID: M

GC Column #1: STX-CLPesticides I

Column ID: 0.25 mm

GC Column #2: STX-CLPesticides II

Column ID: 0.25 mm

SDG: 70235

Non-spiked sample: B062111PSOX,,A/C

Spike: L062111PSOX,,A/C

Spike duplicate: LD062111PSOX,,A/C

COMPOUND	LCS SPIKE ADDED (ug/kg)	LCSD SPIKE ADDED (ug/kg)	LOWER LIMIT	UPPER LIMIT	RPD LIMIT	NON-SPIKE RESULT (ug/kg)	SPIKE RESULT (ug/kg)	SPIKE % REC	#	SPIKE DUP RESULT (ug/kg)	SPIKE DUP % REC	#	RPD	#
PCB 1016	200	200	65	140	30	0	206	103		207	103		0.2	
PCB 1260	200	200	60	130	30	0	193	97		187	94		3.3	
PCB 1016 #2	200	200	65	140	30	0	233	116		230	115		1.0	
PCB 1260 #2	200	200	60	130	30	0	193	97		187	94		3.1	

Column to be used to flag recovery and RPD values outside of QC limits

* Values outside QC limits

LCS/LCSD spike added values have been weight adjusted.

Non-spike result of "0" used in place of "U" to allow calculation of spike recovery.

Comments: _____

_____

PCB FORM 3

PCB WIPE
LABORATORY CONTROL SAMPLE/DUPLICATE
PERCENT RECOVERY

Instrument ID: M

GC Column #1: STX-CLPesticides I

Column ID: 0.25 mm

GC Column #2: STX-CLPesticides II

Column ID: 0.25 mm

SDG: 70235

Non-spiked sample: B062111PSOX,,A/C

Spike: L062111PSOXW,,A/C

Spike duplicate: LD062111PSOXW,,A/C

COMPOUND	LCS SPIKE ADDED (ug/wipe)	LCSD SPIKE ADDED (ug/wipe)	LOWER LIMIT	UPPER LIMIT	RPD LIMIT	NON-SPIKE RESULT (ug/wipe)	SPIKE RESULT (ug/wipe)	SPIKE % REC	#	SPIKE DUP RESULT (ug/wipe)	SPIKE DUP % REC	#	RPD	#
PCB 1016	2.00	2.00	65	140	30	0	2.21	110		1.96	98		11.7	
PCB 1260	2.00	2.00	60	130	30	0	2.13	107		1.70	85		22.3	
PCB 1016 #2	2.00	2.00	65	140	30	0	2.16	108		2.13	106		1.6	
PCB 1260 #2	2.00	2.00	60	130	30	0	1.40	70		1.61	81		14.5	

Column to be used to flag recovery and RPD values outside of QC limits

* Values outside QC limits

LCS/LCSD spike added values have been weight adjusted.

Non-spike result of "0" used in place of "U" to allow calculation of spike recovery.

Comments: _____

PCB FORM 3

CHAIN OF CUSTODIES

Chain Of Custody Form

analytics environmental laboratory LLC
195 Commerce Way, Suite E
Portsmouth, NH 03801
(800) 929-9906
(603) 436-5111
(603) 430-2151 Fax

For Analytics Use Only
Samples were:
1) Shipped or hand-delivered
2) Temperature (°C): 8.1 on ice
3) Received in good condition: Y or N
4) pH checked by: NA
5) Labels checked by: BB 6/21/11

Project#: 224164 Proj. Name: USM Gorham PCBs
Company: Woodard + Curran
Report to: Amy Wallace, Scott Luczko
Address: 41 Hutchins Dr.
Portland, ME 04102
Phone: 207-774-2112
Quote #:
PO# (if required):

Circle and/or Write Required Analysis

Matrix Key:
C = Concrete, WP = Wipe, WW = Wastewater, SW = Surface Water, E = Extract, GW = Groundwater, DW = Drinking Water, S = Soil / Sludge, O = Oil, X = Other

Station Identification	Sample Date	Sample Time	Preservation: Unpres	4° C	HNO_3	H_2SO_4	HCl	Methanol	Other	Field Filtered? Y or N	VOC: 8260 524.2 624	SVOC: 8270 625 PAH only SIM	Pesticides: 8081 608	PCB: 8082 608 Soxhlet? Y or N	TPH: 8015DRO 8015GRO 8100M	EPH: Full (includes targets) Ranges only	VPH: Full (includes targets) Ranges only	Metals: RCRA8 PP13 TAL23 Other*	Matrix	No. of Containers	pH checked	Analytics Sample #
AH-VWE-047	6/17/11	1055		X					X					X					WP	1		70235-1
AH-VWC-048	6/17/11	1100		X					X					X					WP	1		-2
AH-VWC-049	6/17/11	1105		X					X					X					WP	1		-3
UH-CBK-050	6/21/11	0940		X										X				← 48 HOUR	CaVIK	1		-4

Email Results to:
sluczko@woodardcurran.com
awallace@woodardcurran.com

Turnaround Time (TAT)
- [ ] 24 Hours*
- [x] 48 Hours*
- [ ] 72 Hours*
- [x] 5 Days*
- [ ] 10 Days

*Fee may apply; lab approval required

Comments, Additional Analyses, or Special Instructions: * List requested metals here

PCBs via USEPA method 8082 w/soxhlet extraction

Sample-050 needs 48-hr turnaround.

Other three samples are 5-day

Project Requirements:
*Fee may apply.
SHC 6/21/11

Report Type: Level 2 as per (1-Any 2 Metals)
- [ ] MCP*
- [ ] CTRCP*
- [ ] DOD*
- [x] Level II*
- [ ] Level III*
- [ ] Level IV*
- [ ] Standard

State:
- [ ] NH
- [ ] MA
- [x] ME
- [ ] CT
- [ ] RI

Other:

State Standard: (eg. S-1 or GW-1)

EDD Required: Y* N

Type: PDF

Sampler Name (Print): Scott Luczko				
Relinquished By Sampler:	Date: 6/21/11	Time: 1035	Received By: Cold Storage	
Relinquished By: Cold Storage	Date: 6-21-11	Time: 1120	Received By:	
Relinquished By:	Date:	Time:	Received By:	SHC 6/21/11

Page ____ of ____

ANALYTICS SAMPLE RECEIPT CHECKLIST

analytics environmental laboratory LLC

AEL LAB#: 70235 COOLER NUMBER: non-AEL

CLIENT: Woodard & Curran NUMBER OF COOLERS: 1

PROJECT: USM Gorham PCB's DATE RECEIVED: 6/21/11

A: PRELIMINARY EXAMINATION: DATE COOLER OPENED: 6/21/11

1. Cooler received by(initials): SHC Date Received: 6/21/11

2. Circle one: Hand delivered (If so, skip 3) Shipped

3. Did cooler come with a shipping slip? Y N

3a. Enter carrier name and airbill number here: —

4. Were custody seals on the outside of cooler? Y N
How many & where: — Seal Date: — Seal Name: —

5. Did the custody seals arrive unbroken and intact upon arrival? Y N/A

6. COC#: —

7. Were Custody papers filled out properly (ink,signed, etc)? Y N

8. Were custody papers sealed in a plastic bag? Y N

9. Did you sign the COC in the appropriate place? Y N

10. Was the project identifiable from the COC papers? Y N

11. Was enough ice used to chill the cooler? Y N Temp. of cooler: 8.1 on ice

B. Log-In: Date samples were logged in: 6/21/11 By: SHC

12. Type of packing in cooler(bubble wrap, popcorn) Y N

13. Were all bottles sealed in separate plastic bags? Y N

14. Did all bottles arrive unbroken and were labels in good condition? Y N

15. Were all bottle labels complete(ID,Date,time,etc.) Y N

16. Did all bottle labels agree with custody papers? Y N

17. Were the correct containers used for the tests indicated: Y N

18. Were samples received at the correct pH? Y N/A

19. Was sufficient amount of sample sent for the tests indicated? Y N

20. Were all samples submitted within holding time? Y N

21. Were bubbles absent in VOA samples? Y N/A

If NO, List Sample ID's and Lab #s: _____

22. Laboratory labeling verified by (initials): [illegible] Date: 6/21/11

C:ANLYTICS LLC\AEL DOCUMENTS\FORMS\SMPL CHKLST\Edit 4908 Rev. 3, 01/20/11

analytics environmental laboratory LLC

195 Commerce Way Suite E
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906
www.analyticslab.com

June 29, 2011

Ms. Amy Wallace
Woodard & Curran
35 NE Business Center Suite 180
Andover MA 01810

RE: Analytical Results Case Narrative
Analytics # 70288
USM-Gorham Project No: 224164

Dear Ms. Wallace;

Enclosed please find the analytical results for samples submitted for the above-mentioned project. The attached Cover Page lists the sample IDs, Lab tracking numbers and collection dates for the samples included in this deliverable.

Samples were analyzed Polychlorinated Biphenyls (PCBs) by EPA Method 8082.

Unless otherwise noted in the Non-conformance Summary listed below, all of the quality control (QC) criteria including initial calibration, calibration verification, surrogate recovery, holding time and method accuracy/precision for these analyses were within acceptable limits.

This Level II data package has been assembled in the following order:

Case Narrative/Non-Conformance Summary
Sample Log Sheet - Cover Page
PCB Form 1 Data Sheet for Samples and Blanks
Chromatograms
PCB Form 10 Confirmation Results
PCB Form 3 MS/MSD (LCS) Recoveries
Chain of Custody (COC) Forms

QC NON-CONFORMANCE SUMMARY

Sample Receipt:
No exceptions.

PCBs by EPA Method 8082:
No results were reported below the quantitation limit.

If you have any questions on these results, please do not hesitate to contact me.

Sincerely,
ANALYTICS Environmental Laboratory, LLC

Stephen L. Knollmeyer
Laboratory Director

analytics environmental laboratory LLC

195 Commerce Way Suite E
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906
www.analyticslab.com

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

Report Number: 70288

Revision: Rev. 0

Re: USM Gorham PCBs (Project No: 224164)

Enclosed are the results of the analyses on your sample(s). Samples were received on 27 June 2011 and analyzed for the tests listed. Samples were received in acceptable condition, with the exceptions noted below or on the chain of custody. These results pertain to samples as received by the laboratory and for the analytical tests requested on the chain of custody. The results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. Please see individual reports for specific methodologies and references.

Lab Number	Sample Date	Station Location	Analysis	Comments
70288-1	06/22/11	AH-VWC-051	EPA 8082 (PCBs only)	
70288-2	06/22/11	AH-VWE-052	EPA 8082 (PCBs only)	
70288-3	06/22/11	AH-VWE-053	EPA 8082 (PCBs only)	
70288-4	06/22/11	AH-VWC-054	EPA 8082 (PCBs only)	
70288-5	06/22/11	AH-VWC-055	EPA 8082 (PCBs only)	
70288-6	06/22/11	AH-VWCD-056	EPA 8082 (PCBs only)	

Sample Receipt Exceptions: None

Analytics Environmental Laboratory is certified by the states of New Hampshire, Maine, Massachusetts, Connecticut, Rhode Island, Virginia, Maryland, and is accredited by the Deparment of Defense (DOD) ELAP program. A list of actual certified parameters is available upon request.

If you have any questions on these results, please do not hesitate to contact us.

Authorized signature _____
Stephen L. Knollmeyer Lab. Director

Date 6/29/2011

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Surrogate Compound Limits

Matrix:	Aqueous	Solid	
Units:	% Recovery	% Recovery	Method
Volatile Organic Compounds - Drinking Water			
1,4-Difluorobenzene	70-130		EPA 524.2
Bromofluorobenzene	70-130		
1,2-Dichlorobenzene-d4	70-130		
Volatile Organic Compounds			
1,2-Dichloroethane-d4	70-120	70-120	EPA 624/8260B
Toluene-d8	85-120	85-120	
Bromofluorobenzene	75-120	75-120	
Semi-Volatile Organic Compounds			
2-Fluorophenol	20-110	35-105	EPA 625/8270C
d5-Phenol	15-110	40-100	
d5-nitrobenzene	40-110	35-100	
2-Fluorobiphenyl	50-110	45-105	
2,4,6-Tribromophenol	40-110	40-125	
d14-p-terphenyl	50-130	30-125	
PAH's by SIM			
d5-nitrobenzene	21-110	35-110	EPA 8270C
2-Fluorobiphenyl	36-121	45-105	
d14-p-terphenyl	33-141	30-125	
Pesticides and PCBs			
2,4,5,6-Tetrachloro-m-xylene (TCX)	46-122	40-130	EPA 608/8082
Decachlorobiphenyl (DCB)	40-135	40-130	
Herbicides			
Dichloroacetic acid (DCAA)	30-150	30-150	
Gasoline Range Organics/TPH Gasoline			
Trifluorotoluene TFT (FID)	60-140	60-140	MEDEP 4217/EPA 8015
Bromofluorobenzene (BFB) (FID)	60-140	60-140	
Trifluorotoluene TFT (PID)	60-140	60-140	
Bromofluorobenzene (BFB) (PID)	60-140	60-140	
Diesel Range Organics/TPH Diesel			
m-terphenyl	60-140	60-140	MEDEP 4125/EPA 8015/CT ETPH
Volatile Petroleum Hydrocarbons			
2,5-Dibromotoluene (PID)	70-130	70-130	MADEP VPH May 2004 Rev1.1
2,5-Dibromotoluene (FID)	70-130	70-130	
Extracatable Petroleum Hydrocarbons			
1-chloro-octadecane (aliphatic)	40-140	40-140	MADEP EPH May 2004 Rev1.1
o-Terphenyl (aromatic)	40-140	40-140	
2-Fluorobiphenyl (Fractionation)	40-140	40-140	
2-Bromonaphthalene (fractionation)	40-140	40-140	

PCB
DATA SUMMARIES

analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

June 29, 2011

SAMPLE DATA

Lab Sample ID: B062711PSOXW
Matrix: Wipe
Percent Solid: N/A
Dilution Factor: 1.0
Collection Date:
Lab Receipt Date:
Extraction Date: 06/27/11
Analysis Date: 06/29/11

CLIENT SAMPLE ID

Project Name: USM Gorham PCBs
Project Number: 224164
Field Sample ID: Lab QC

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	U
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	71	%
Decachlorobiphenyl	82	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

PCB Report

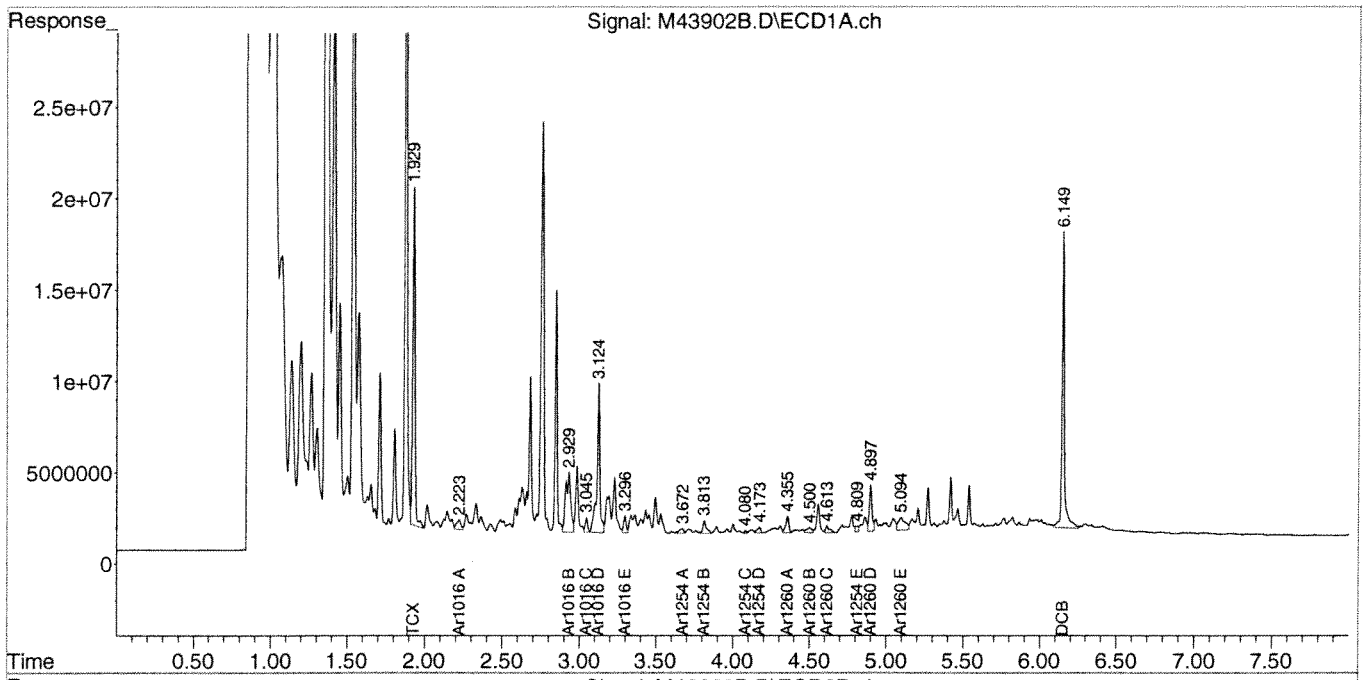
Authorized signature

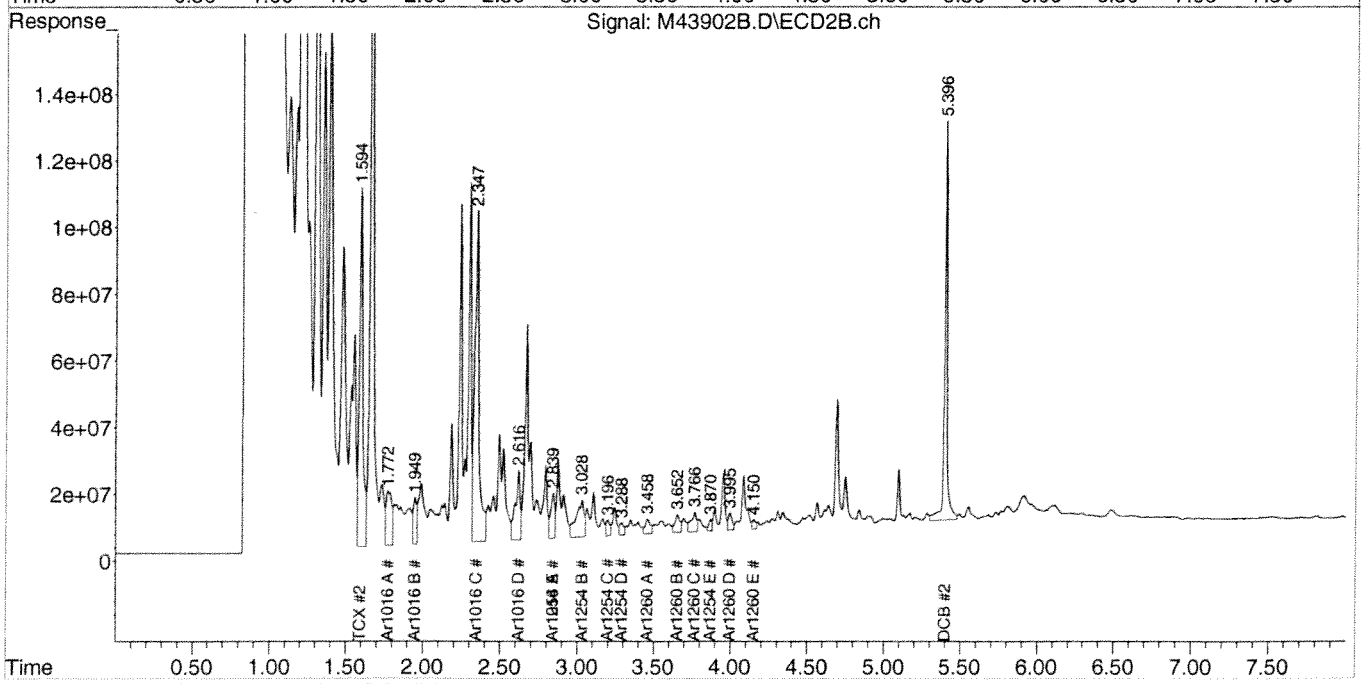
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\062911-M\
Data File : M43902B.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Jun 2011 1:08 pm
Operator : JK
Sample : B062711PSOXW,,A/C
Misc : SOIL
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 29 15:23:55 2011
Quant Method : C:\msdchem\1\METHODS\PCB052411.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Jun 29 12:18:36 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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Portland ME 04102

June 29, 2011

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: USM Gorham PCBs

Project Number: 224164

Field Sample ID: AH-VWC-051

Lab Sample ID: 70288-1
Matrix: Wipe
Percent Solid: N/A
Dilution Factor: 1.0
Collection Date: 06/22/11
Lab Receipt Date: 06/27/11
Extraction Date: 06/27/11
Analysis Date: 06/29/11

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	**0.6**
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	73	%
Decachlorobiphenyl	71	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 70288
Sample: 70288-1
Data File: M43907.D
Dilution Factor: 1.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/wipe)	SAMPLE RESULT (ug/wipe)	RPD	#
PCB 1254	0.48	0.60	23.0	

Column to be used to flag RPD values greater than QC limit of 40%
* Values outside QC limits

Comments: _____

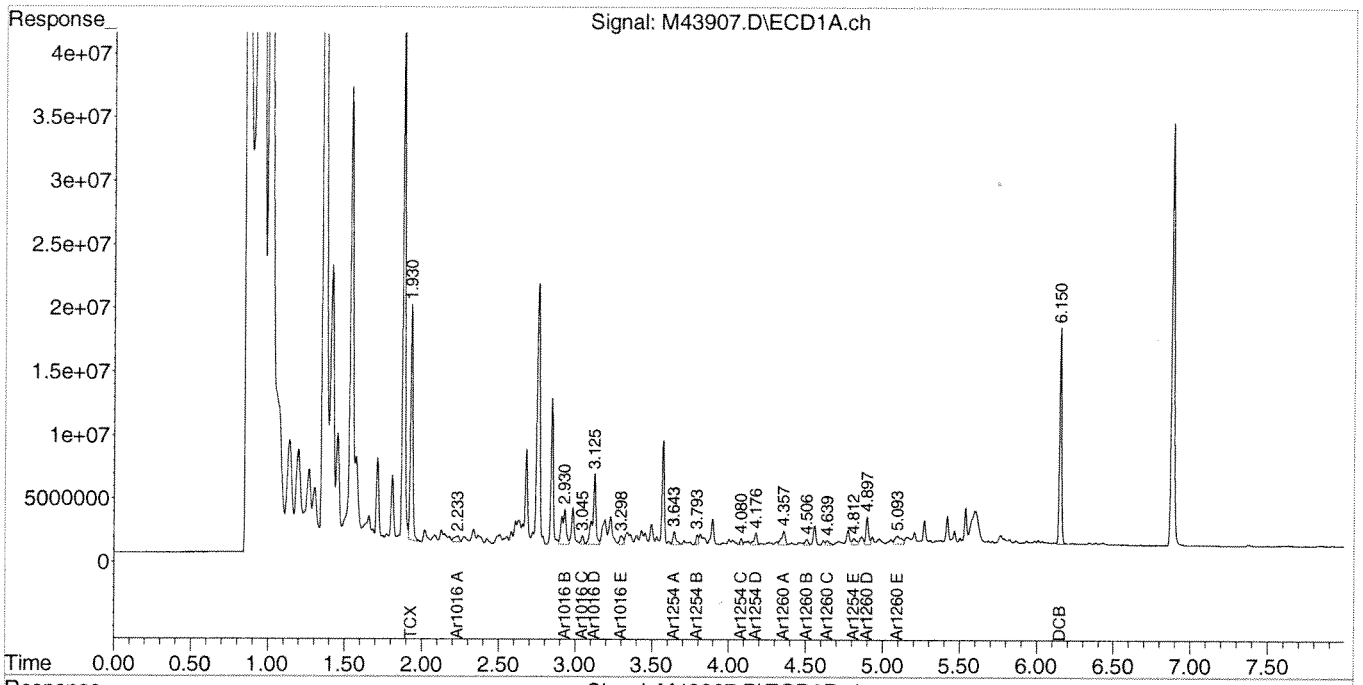
PCB FORM 10

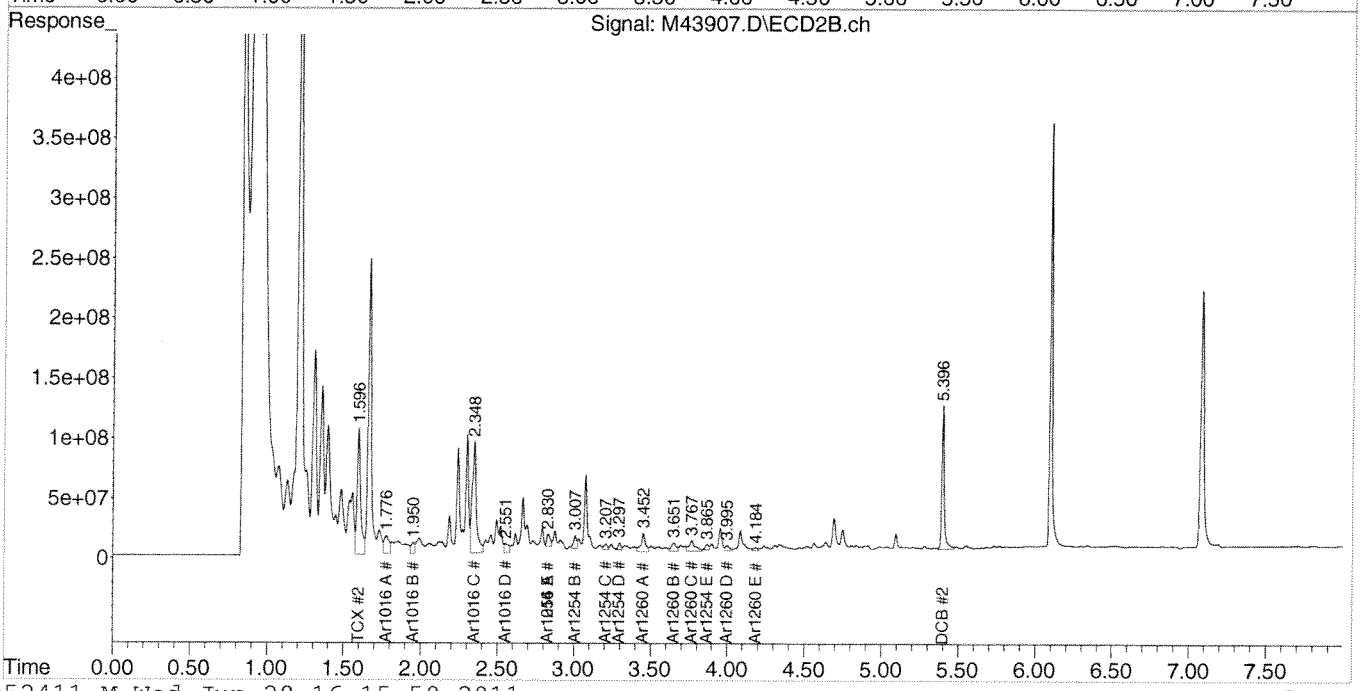
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\062911-M\
Data File : M43907.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Jun 2011 2:02 pm
Operator : JK
Sample : 70288-1
Misc : SOIL
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 29 16:15:38 2011
Quant Method : C:\msdchem\1\METHODS\PCB052411.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Jun 29 12:18:36 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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SAMPLE DATA

Lab Sample ID: 70288-2
Matrix: Wipe
Percent Solid: N/A
Dilution Factor: 1.0
Collection Date: 06/22/11
Lab Receipt Date: 06/27/11
Extraction Date: 06/27/11
Analysis Date: 06/29/11

CLIENT SAMPLE ID

Project Name: USM Gorham PCBs
Project Number: 224164
Field Sample ID: AH-VWE-052

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	**2.4**
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	66	%
Decachlorobiphenyl	72	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 70288
Sample: 70288-2
Data File: M43908.D
Dilution Factor: 1.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/wipe)	SAMPLE RESULT (ug/wipe)	RPD	#
PCB 1254	2.41	2.37	1.6	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

Comments: _____

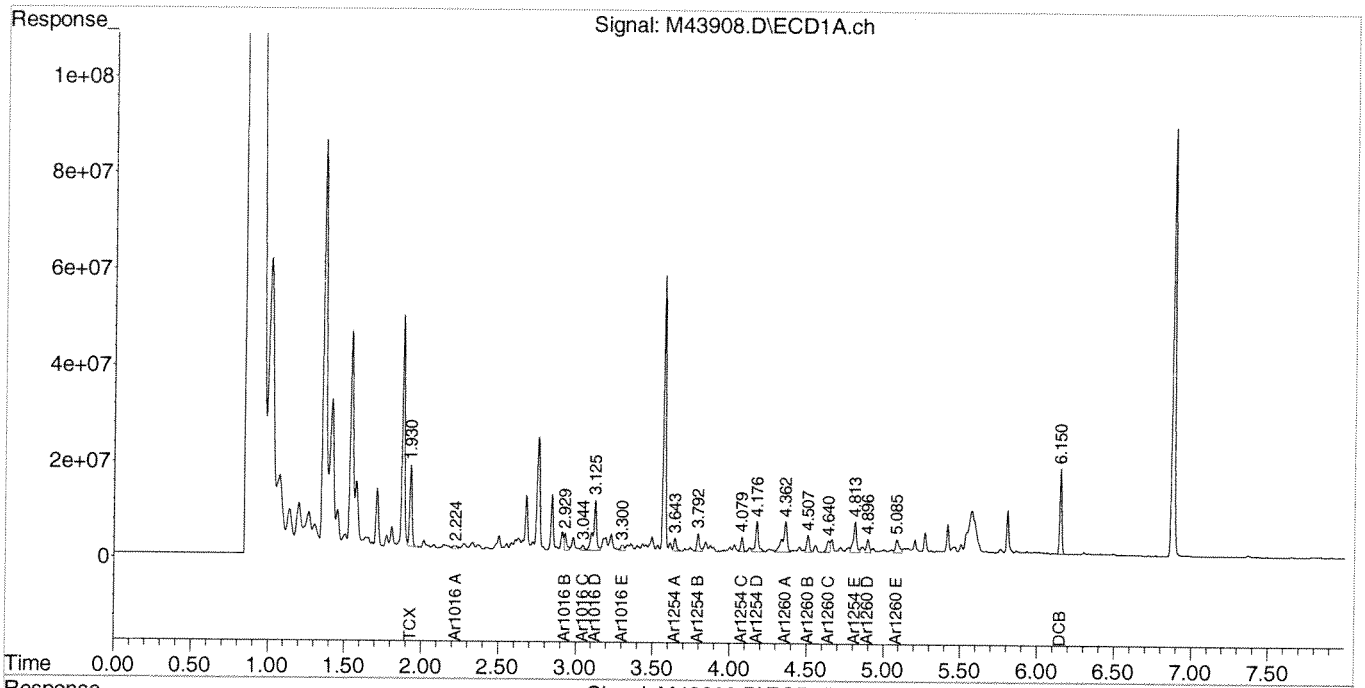
PCB FORM 10

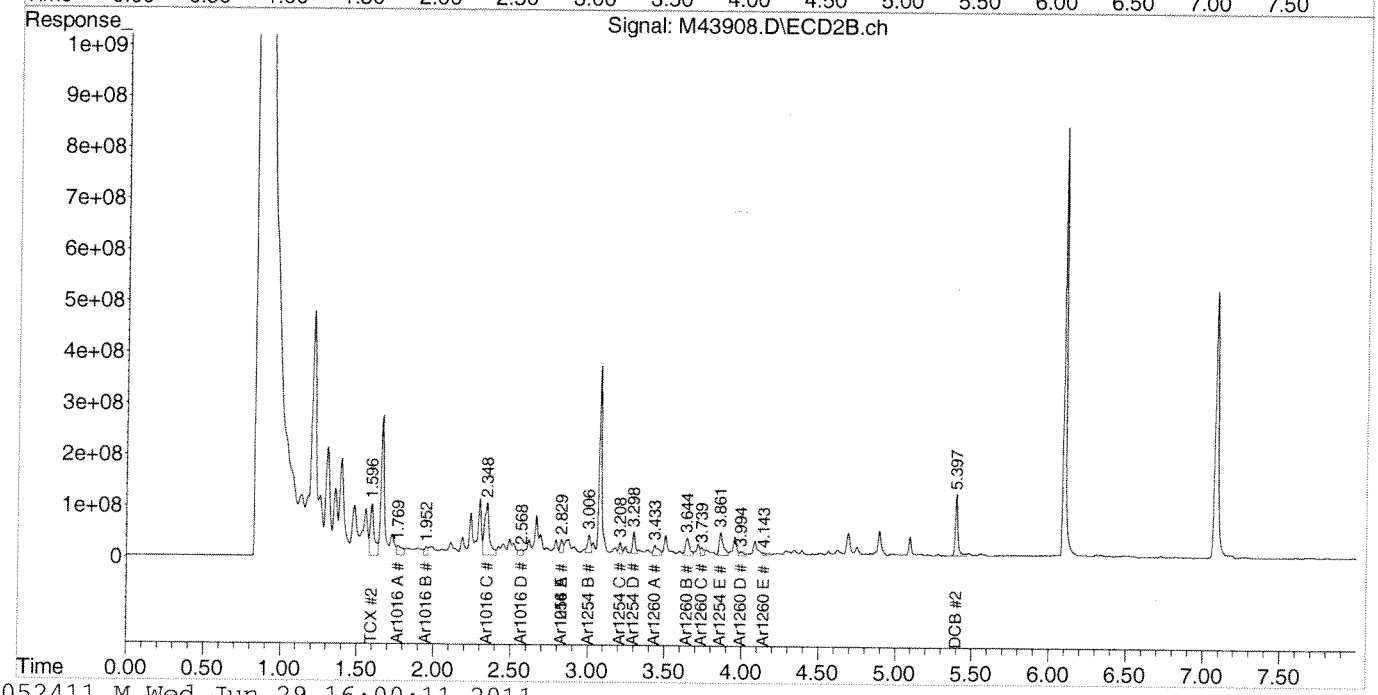
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\062911-M\
Data File : M43908.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Jun 2011 2:12 pm
Operator : JK
Sample : 70288-2
Misc : SOIL
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 29 15:59:54 2011
Quant Method : C:\msdchem\1\METHODS\PCB052411.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Jun 29 12:18:36 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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June 29, 2011

SAMPLE DATA

Lab Sample ID: 70288-3
Matrix: Wipe
Percent Solid: N/A
Dilution Factor: 5.0
Collection Date: 06/22/11
Lab Receipt Date: 06/27/11
Extraction Date: 06/27/11
Analysis Date: 06/29/11

CLIENT SAMPLE ID

Project Name: USM Gorham PCBs
Project Number: 224164
Field Sample ID: AH-VWE-053

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	2.5	U
PCB-1221	2.5	U
PCB-1232	2.5	U
PCB-1242	2.5	U
PCB-1248	2.5	U
PCB-1254	2.5	**23**
PCB-1260	2.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	81	%
Decachlorobiphenyl	76	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 70288
Sample: 70288-3,1:5,,A/C
Data File: M43906.D
Dilution Factor: 5.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/wipe)	SAMPLE RESULT (ug/wipe)	RPD	#
PCB 1254	23	23	1.0	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

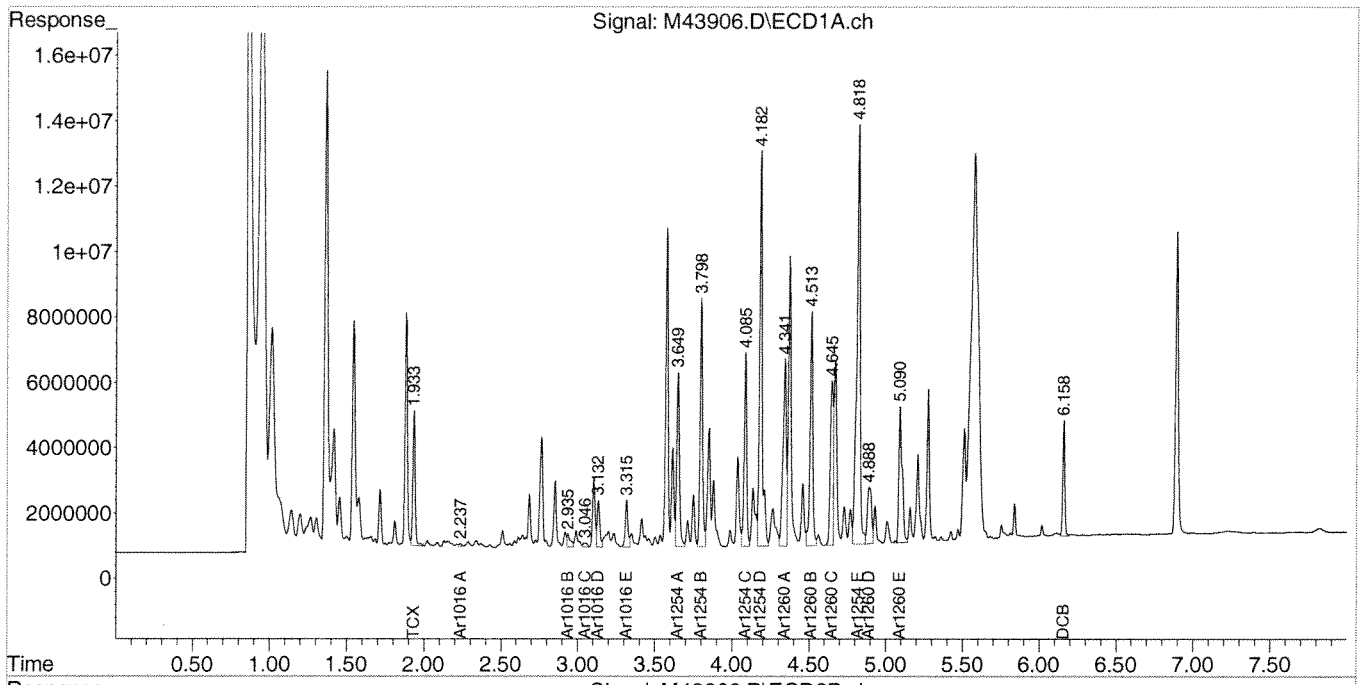
Comments: _____

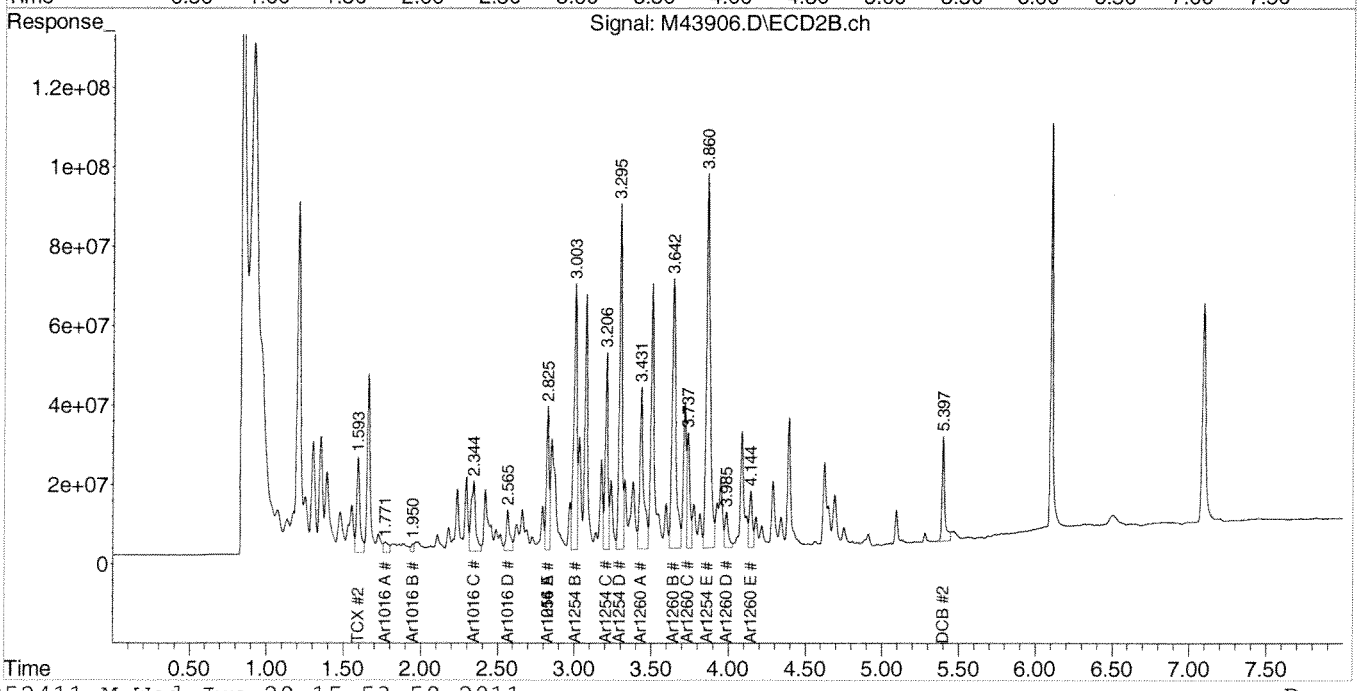
PCB FORM 10

Data Path : C:\msdchem\1\DATA\062911-M\
Data File : M43906.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Jun 2011 1:52 pm
Operator : JK
Sample : 70288-3,1:5,,A/C
Misc : SOIL
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 29 15:24:03 2011
Quant Method : C:\msdchem\1\METHODS\PCB052411.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Jun 29 12:18:36 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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June 29, 2011

SAMPLE DATA

Lab Sample ID: 70288-4
Matrix: Wipe
Percent Solid: N/A
Dilution Factor: 1.0
Collection Date: 06/22/11
Lab Receipt Date: 06/27/11
Extraction Date: 06/27/11
Analysis Date: 06/29/11

CLIENT SAMPLE ID

Project Name: USM Gorham PCBs
Project Number: 224164
Field Sample ID: AH-VWC-054

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	**0.9**
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	76	%
Decachlorobiphenyl	68	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 70288
Sample: 70288-4
Data File: M43909.D
Dilution Factor: 1.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/wipe)	SAMPLE RESULT (ug/wipe)	RPD	#
PCB 1254	0.88	0.89	0.5	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

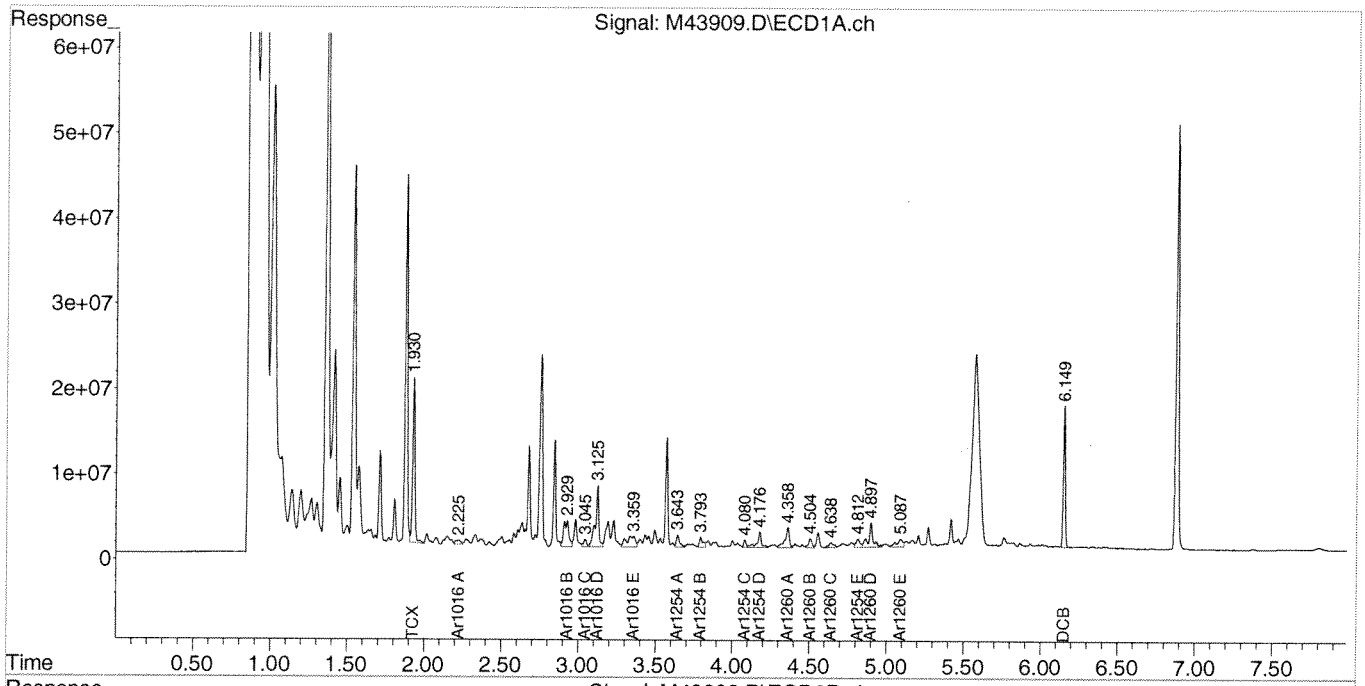
Comments: _____

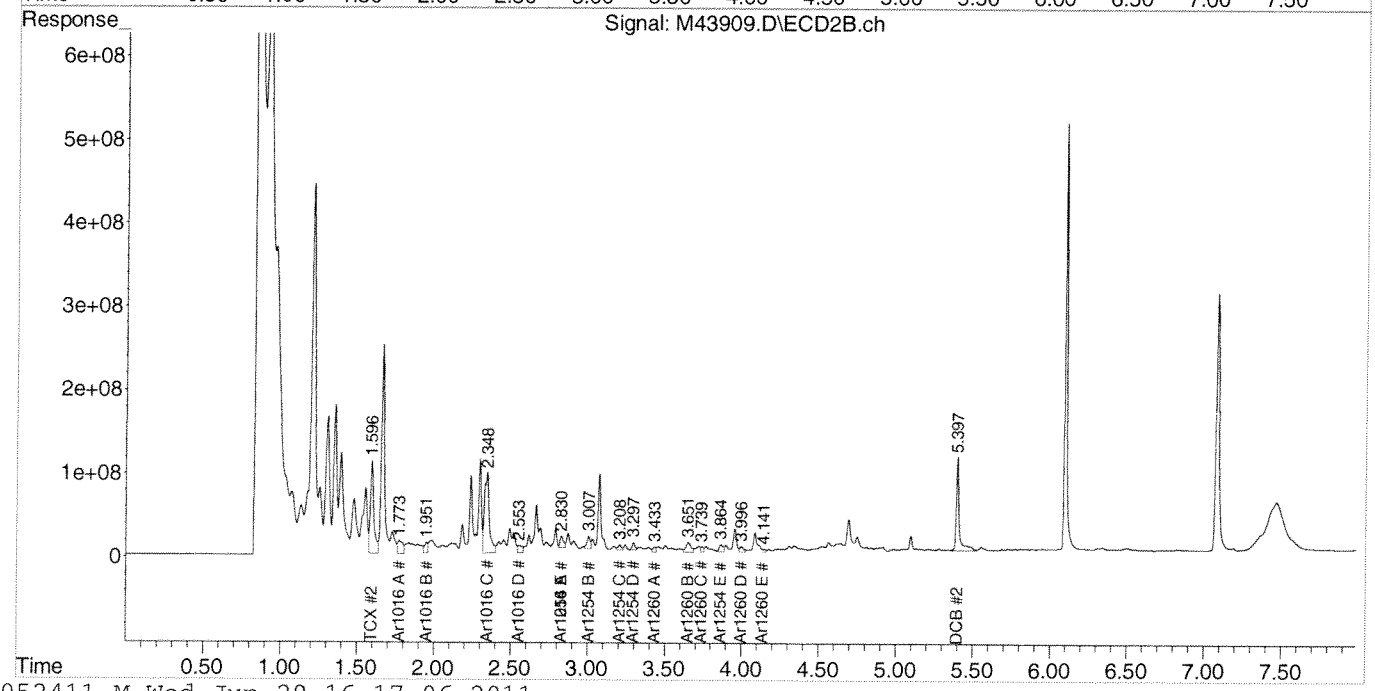
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\062911-M\
Data File : M43909.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Jun 2011 2:22 pm
Operator : JK
Sample : 70288-4
Misc : SOIL
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 29 16:16:50 2011
Quant Method : C:\msdchem\1\METHODS\PCB052411.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Jun 29 12:18:36 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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June 29, 2011

SAMPLE DATA

Lab Sample ID: 70288-5
Matrix: Wipe
Percent Solid: N/A
Dilution Factor: 1.0
Collection Date: 06/22/11
Lab Receipt Date: 06/27/11
Extraction Date: 06/27/11
Analysis Date: 06/29/11

CLIENT SAMPLE ID

Project Name: USM Gorham PCBs
Project Number: 224164
Field Sample ID: AH-VWC-055

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	U
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	73	%
Decachlorobiphenyl	68	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

PCB Report

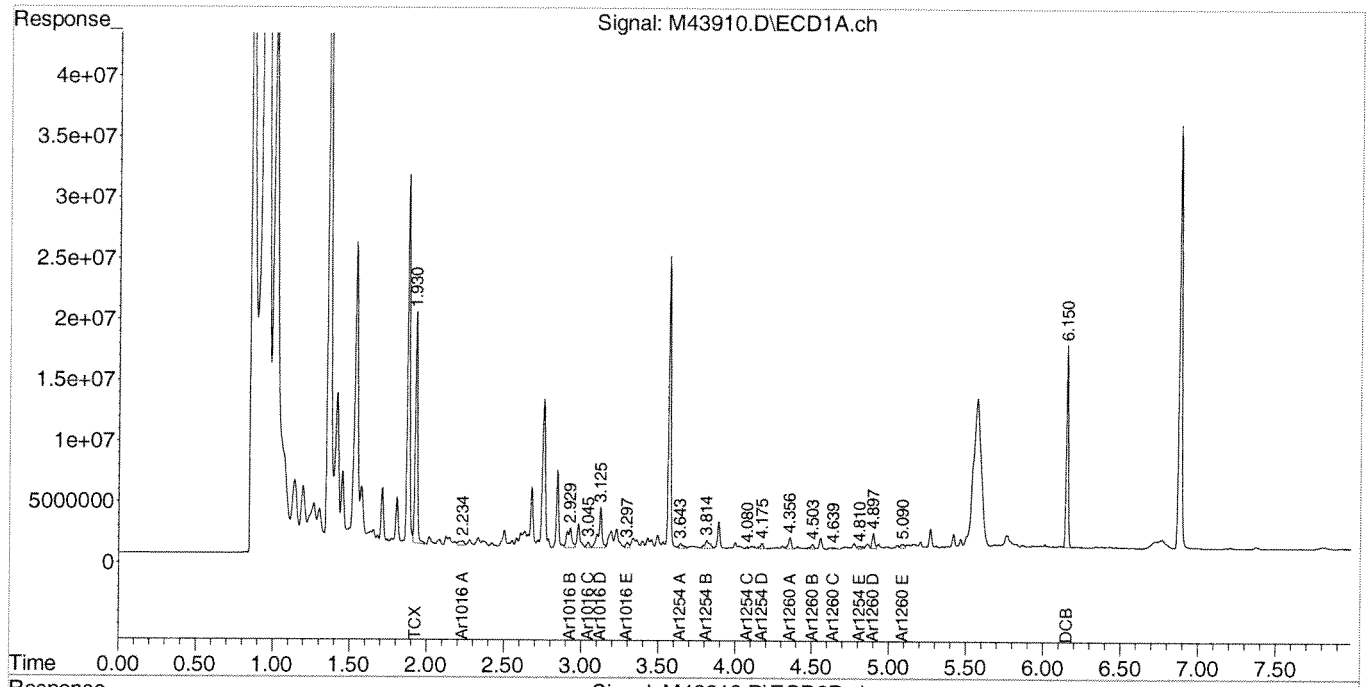
Authorized signature

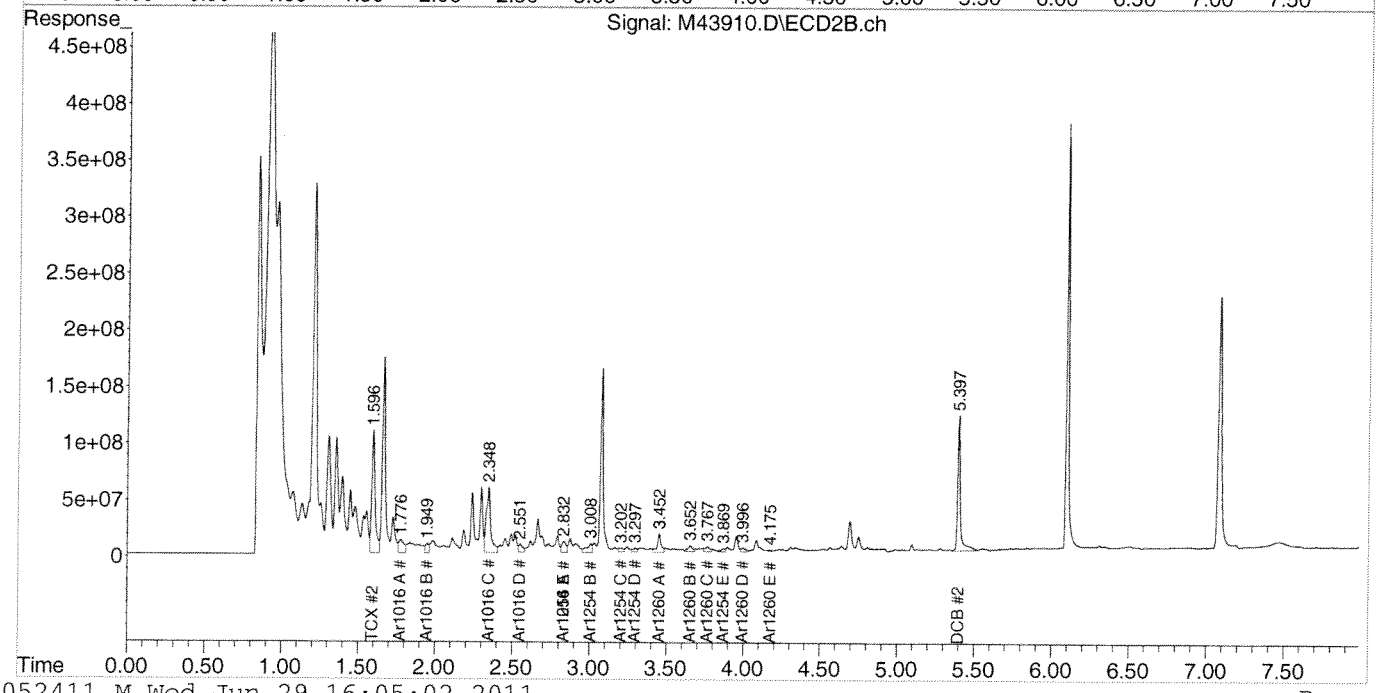
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\062911-M\
Data File : M43910.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Jun 2011 2:32 pm
Operator : JK
Sample : 70288-5
Misc : SOIL
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 29 15:24:11 2011
Quant Method : C:\msdchem\1\METHODS\PCB052411.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Jun 29 12:18:36 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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June 29, 2011

SAMPLE DATA

Lab Sample ID: 70288-6
Matrix: Wipe
Percent Solid: N/A
Dilution Factor: 1.0
Collection Date: 06/22/11
Lab Receipt Date: 06/27/11
Extraction Date: 06/27/11
Analysis Date: 06/29/11

CLIENT SAMPLE ID

Project Name: USM Gorham PCBs
Project Number: 224164
Field Sample ID: AH-VWCD-056

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	**1.6**
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	70	%
Decachlorobiphenyl	70	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 70288
Sample: 70288-6
Data File: M43911.D
Dilution Factor: 1.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/wipe)	SAMPLE RESULT (ug/wipe)	RPD	#
PCB 1254	1.52	1.55	1.8	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

Comments: _____

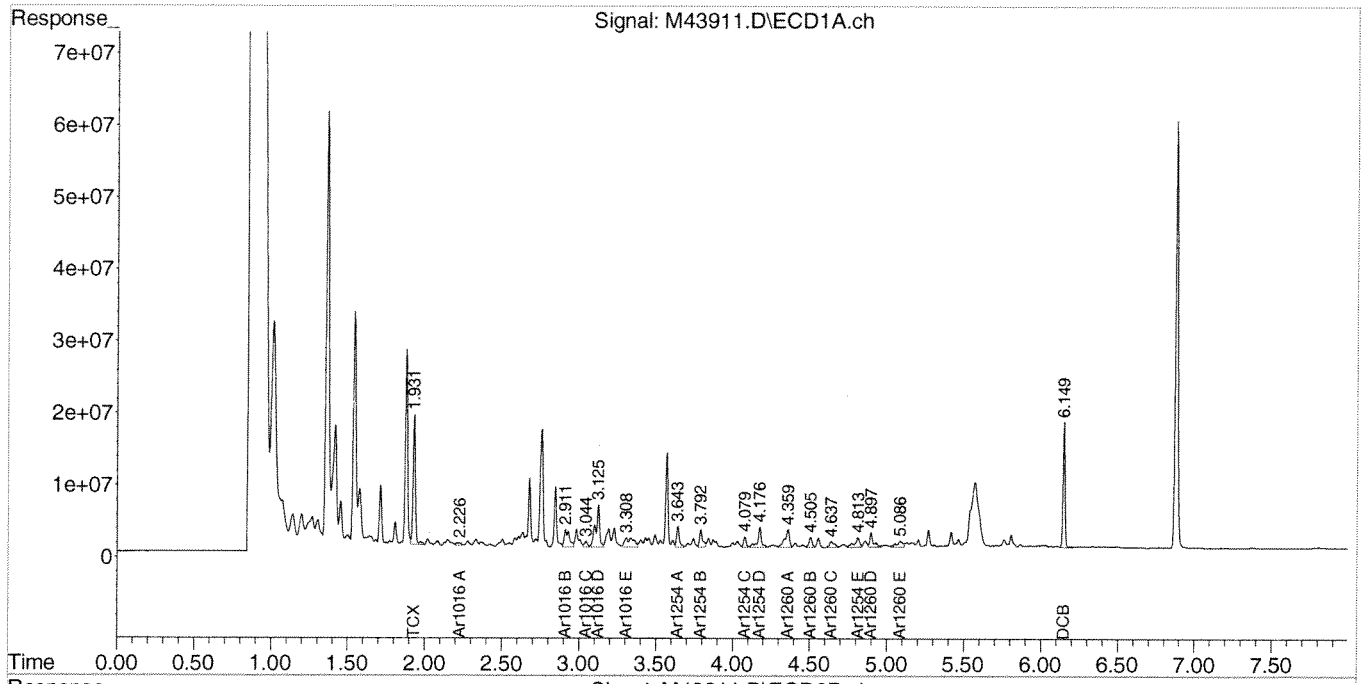
PCB FORM 10

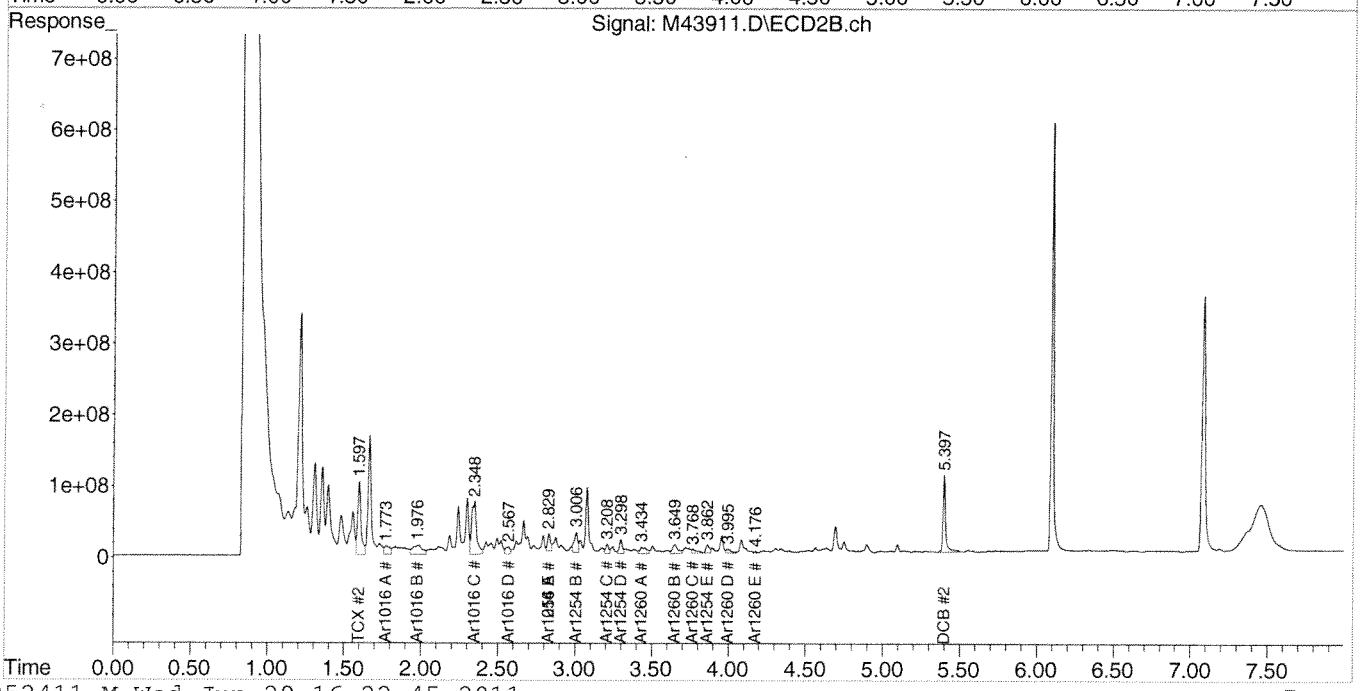
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\062911-M\
Data File : M43911.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 Jun 2011 2:42 pm
Operator : JK
Sample : 70288-6
Misc : SOIL
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jun 29 16:22:38 2011
Quant Method : C:\msdchem\1\METHODS\PCB052411.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Jun 29 12:18:36 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





PCB
QC FORMS

AnalyticsLLC:AEL Documents LLC:Pkg Dividers:PCBQC.doc

PCB WIPE
SYSTEM MONITORING COMPOUNDS
SUMMARY

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 70288

	Column #1				Column #2			
SAMPLE ID	SMC 1 (%)	#	SMC 2 (%)	#	SMC 1 (%)	#	SMC 2 (%)	#
B062711PSOXW,,A/C	71		82		79		64	
L062711PSOXW,,A/C	77		70		87		67	
LD062711PSOXW,,A/C	74		71		85		67	
70288-3,1:5,,A/C	81		76		84		71	
70288-1	73		71		76		60	
70288-2	66		72		86		63	
70288-4	76		68		79		67	
70288-5	73		68		75		64	
70288-6	70		70		73		58	

		Lower Limit	Upper Limit
SMC #1 =	TCX	40	130
SMC #2 =	DCB	40	130

Column to be used to flag recovery values outside of QC limits
* Values outside QC limits
D System Monitoring Compound diluted out

PCB WIPE
LABORATORY CONTROL SAMPLE/DUPLICATE
PERCENT RECOVERY

Instrument ID: M

GC Column #1: STX-CLPesticides I

Column ID: 0.25 mm

GC Column #2: STX-CLPesticides II

Column ID: 0.25 mm

SDG: 70288

Non-spiked sample: B062711PSOXW,,A/C

Spike: L062711PSOXW,,A/C

Spike duplicate: LD062711PSOXW,,A/C

COMPOUND	LCS SPIKE ADDED (ug/wipe)	LCSD SPIKE ADDED (ug/wipe)	LOWER LIMIT	UPPER LIMIT	RPD LIMIT	NON-SPIKE RESULT (ug/wipe)	SPIKE RESULT (ug/wipe)	SPIKE % REC	#	SPIKE DUP RESULT (ug/wipe)	SPIKE DUP % REC	#	RPD	#
PCB 1016	200	200	65	140	30	0	275	138		225	113		20.0	
PCB 1260	200	200	60	130	30	0	235	117		199	100		16.4	
PCB 1016 #2	200	200	65	140	30	0	228	114		229	114		0.5	
PCB 1260 #2	200	200	60	130	30	0	233	116		217	108		7.2	

Column to be used to flag recovery and RPD values outside of QC limits

* Values outside QC limits

LCS/LCSD spike added values have been weight adjusted.

Non-spike result of "0" used in place of "U" to allow calculation of spike recovery.

Comments: _____

_____

CHAIN OF CUSTODIES

Chain Of Custody Form

analytics environmental laboratory LLC
195 Commerce Way, Suite E
Portsmouth, NH 03801
(800) 929-9906
(603) 436-5111
(603) 430-2151 Fax

Project#: 224164 Proj. Name: USM Gorham PCBs
Company: Woodard + Curran
Report to: Amy Wallace, Scott Luczko
Address: 41 Hutchins Dr.
Portland ME 04102
Phone: 207-774-2112
Quote #:
PO# (if required):

For Analytics Use Only
Samples were:
1) Shipped or hand-delivered
2) Temperature (°C): 5.2
3) Received in good condition: Y or N
4) pH checked by: N/A
5) Labels checked by: KB 6/27/11

Circle and/or Write Required Analysis

Station Identification	Sample Date	Sample Time	Preservation: Unpres	4° C	HNO_3	H_2SO_4	HCl	Methanol	Other	Field Filtered? Y or N	VOC: 8260 524.2 624	SVOC: 8270 625 PAH only SIM	Pesticides: 8081 608	PCB: 8082 608 Soxhlet? Y or N	TPH: 8015DRO 8015GRO 8100M	EPH: Full (includes targets) Ranges only	VPH: Full (includes targets) Ranges only	Metals: RCRA8 PP13 TAL23 Other*							Matrix	No. of Containers	pH checked	Analytics Sample #
AH-VWC-051	6/27/11	1000		X					X					X											WP	1		70288-1
AH-VWE-052	6/27/11	1005		X					X					X											WP	1		-2
AH-VWE-053	6/27/11	1010		X					X					X					48	HOUR					WP	1		-3
AH-VWC-054	6/27/11	1015		X					X					X											WP	1		-4
AH-VWC-055	6/27/11	1020		X					X					X											WP	1		-5
AH-VWCD-056	6/27/11	1025		X					X					X											WP	1		-6

Matrix Key:
C = Concrete, WP = Wipe, WW = Wastewater, SW = Surface Water, E = Extract, GW = Groundwater, DW = Drinking Water, S = Soil / Sludge, O = Oil, X = Other

Email Results to:
sluczko@woodardcurran.com
awallace@woodardcurran.com

Turnaround Time (TAT)
- [ ] 24 Hours*
- [x] 48 Hours*
- [ ] 72 Hours*
- [x] 5 Days*
- [ ] 10 Days

*Fee may apply; lab approval required

Comments, Additional Analyses, or Special Instructions: * List requested metals here

PCBs via USEPA 8082 w/soxhlet extraction
48-hr TAT on sample -053

Project Requirements:
*Fee may apply

Report Type:
- [ ] MCP*
- [ ] CTRCP*
- [ ] DOD*
- [ ] Level II*
- [ ] Level III*
- [ ] Level IV*
- [ ] Standard

State:
- [ ] NH
- [ ] MA
- [x] ME
- [ ] CT
- [ ] RI

Other:

State Standard: (eg. S-1 or GW-1)

EDD Required: Y* N
Type:

Sampler Name (Print): Scott Luczko

Relinquished By Sampler:	Date: 6/27/11	Time: 11:10	Received By:	Cold Storage
Relinquished By: Cold Storage	Date: 6/27/11	Time: 11:40	Received By:	
Relinquished By:	Date:	Time:	Received By:	DW 6/27/11

analytics environmental laboratory LLC

ANALYTICS SAMPLE RECEIPT CHECKLIST

AEL LAB#: 70288

CLIENT: Woodard + Curran

PROJECT: USM Gorham PCB

COOLER NUMBER: 67

NUMBER OF COOLERS: 1

DATE RECEIVED: 6/27/11

A: PRELIMINARY EXAMINATION:

DATE COOLER OPENED: 6/27/11

1. Cooler received by(initials): DW

Date Received: 6/27/11

2. Circle one: Hand delivered (If so, skip 3) Shipped

3. Did cooler come with a shipping slip? Y N/A

3a. Enter carrier name and airbill number here: —

4. Were custody seals on the outside of cooler? Y N/A
How many & where: — Seal Date: — Seal Name: —

5. Did the custody seals arrive unbroken and intact upon arrival? Y N/A

6. COC: N/A

7. Were Custody papers filled out properly (ink,signed, etc)? Y N

8. Were custody papers sealed in a plastic bag? Y N

9. Did you sign the COC in the appropriate place? Y N

10. Was the project identifiable from the COC papers? Y N

11. Was enough ice used to chill the cooler? Y N Temp. of cooler: 5.2 °C

B. Log-In: Date samples were logged in: 6/27/11 By: DW

12. Type of packing in cooler(bubble wrap, popcorn) Y N

13. Were all bottles sealed in separate plastic bags? Y N

14. Did all bottles arrive unbroken and were labels in good condition? Y N

15. Were all bottle labels complete(ID,Date,time,etc.) Y N

16. Did all bottle labels agree with custody papers? Y N

17. Were the correct containers used for the tests indicated: Y N

18. Were samples received at the correct pH? Y N/A

19. Was sufficient amount of sample sent for the tests indicated? Y N

20. Were all samples submitted within holding time? Y N

21. Were bubbles absent in VOA samples? Y N/A

If NO, List Sample ID's and Lab #s:

22. Laboratory labeling verified by (initials): BB Date: 6/27/11

analytics environmental laboratory LLC

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800-929-9906
www.analyticslab.com

July 8, 2011

Ms. Amy Wallace
Woodard & Curran
35 NE Business Center Suite 180
Andover MA 01810

RE: Analytical Results Case Narrative
Analytics # 70348
USM-Gorham Project No: 224164

Dear Ms. Wallace;

Enclosed please find the analytical results for samples submitted for the above-mentioned project. The attached Cover Page lists the sample IDs, Lab tracking numbers and collection dates for the samples included in this deliverable.

Samples were analyzed Polychlorinated Biphenyls (PCBs) by EPA Method 8082.

Unless otherwise noted in the Non-conformance Summary listed below, all of the quality control (QC) criteria including initial calibration, calibration verification, surrogate recovery, holding time and method accuracy/precision for these analyses were within acceptable limits.

This Level II data package has been assembled in the following order:

Case Narrative/Non-Conformance Summary
Sample Log Sheet - Cover Page
PCB Form 1 Data Sheet for Samples and Blanks
Chromatograms
PCB Form 10 Confirmation Results
PCB Form 3 MS/MSD (LCS) Recoveries
Chain of Custody (COC) Forms

QC NON-CONFORMANCE SUMMARY

Sample Receipt:
No exceptions.

PCBs by EPA Method 8082:
No results were reported below the quantitation limit.

If you have any questions on these results, please do not hesitate to contact me.

Sincerely,
ANALYTICS Environmental Laboratory, LLC

Stephen L. Knollmeyer
Laboratory Director

analytics environmental laboratory LLC

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Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906
www.analyticslab.com

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

Report Number: 70348

Revision: Rev. 0

Re: USM Gorham (Project No: 224164)

Enclosed are the results of the analyses on your sample(s). Samples were received on 01 July 2011 and analyzed for the tests listed. Samples were received in acceptable condition, with the exceptions noted below or on the chain of custody. These results pertain to samples as received by the laboratory and for the analytical tests requested on the chain of custody. The results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. Please see individual reports for specific methodologies and references.

Lab Number	Sample Date	Station Location	Analysis	Comments
70348-1	06/29/11	UH-VBB-056	EPA 8082 (PCBs only)	
70348-2	06/29/11	UH-VBB-057	EPA 8082 (PCBs only)	
70348-3	06/29/11	UH-VBB-058	EPA 8082 (PCBs only)	

Sample Receipt Exceptions: None

Analytics Environmental Laboratory is certified by the states of New Hampshire, Maine, Massachusetts, Connecticut, Rhode Island, Virginia, Maryland, and is accredited by the Deparment of Defense (DOD) ELAP program. A list of actual certified parameters is available upon request.

If you have any questions on these results, please do not hesitate to contact us.

Authorized signature _____
Stephen L. Knollmeyer Lab. Director

Date 7/8/2011

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Surrogate Compound Limits

Matrix:	Aqueous	Solid	
Units:	% Recovery	% Recovery	Method
Volatile Organic Compounds - Drinking Water			
1,4-Difluorobenzene	70-130		EPA 524.2
Bromofluorobenzene	70-130		
1,2-Dichlorobenzene-d4	70-130		
Volatile Organic Compounds			
1,2-Dichloroethane-d4	70-120	70-120	EPA 624/8260B
Toluene-d8	85-120	85-120	
Bromofluorobenzene	75-120	75-120	
Semi-Volatile Organic Compounds			
2-Fluorophenol	20-110	35-105	EPA 625/8270C
d5-Phenol	15-110	40-100	
d5-nitrobenzene	40-110	35-100	
2-Fluorobiphenyl	50-110	45-105	
2,4,6-Tribromophenol	40-110	40-125	
d14-p-terphenyl	50-130	30-125	
PAH's by SIM			
d5-nitrobenzene	21-110	35-110	EPA 8270C
2-Fluorobiphenyl	36-121	45-105	
d14-p-terphenyl	33-141	30-125	
Pesticides and PCBs			
2,4,5,6-Tetrachloro-m-xylene (TCX)	46-122	40-130	EPA 608/8082
Decachlorobiphenyl (DCB)	40-135	40-130	
Herbicides			
Dichloroacetic acid (DCAA)	30-150	30-150	
Gasoline Range Organics/TPH Gasoline			
Trifluorotoluene TFT (FID)	60-140	60-140	MEDEP 4217/EPA 8015
Bromofluorobenzene (BFB) (FID)	60-140	60-140	
Trifluorotoluene TFT (PID)	60-140	60-140	
Bromofluorobenzene (BFB) (PID)	60-140	60-140	
Diesel Range Organics/TPH Diesel			
m-terphenyl	60-140	60-140	MEDEP 4125/EPA 8015/CT ETPH
Volatile Petroleum Hydrocarbons			
2,5-Dibromotoluene (PID)	70-130	70-130	MADEP VPH May 2004 Rev1.1
2,5-Dibromotoluene (FID)	70-130	70-130	
Extracatable Petroleum Hydrocarbons			
1-chloro-octadecane (aliphatic)	40-140	40-140	MADEP EPH May 2004 Rev1.1
o-Terphenyl (aromatic)	40-140	40-140	
2-Fluorobiphenyl (Fractionation)	40-140	40-140	
2-Bromonaphthalene (fractionation)	40-140	40-140	

PCB
DATA SUMMARIES

analytics environmental laboratory LLC

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800-929-9906

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

July 8, 2011

SAMPLE DATA

Lab Sample ID: B070111PSOX
Matrix: Soil
Percent Solid: 100
Dilution Factor: 1.0
Collection Date:
Lab Receipt Date:
Extraction Date: 07/01/11
Analysis Date: 07/05/11

CLIENT SAMPLE ID

Project Name: USM Gorham
Project Number: 224164
Field Sample ID: Lab QC

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	33	U
PCB-1221	33	U
PCB-1232	33	U
PCB-1242	33	U
PCB-1248	33	U
PCB-1254	33	U
PCB-1260	33	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	89	%
Decachlorobiphenyl	88	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

COMMENTS: Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Results are expressed on a dry weight basis.

PCB Report

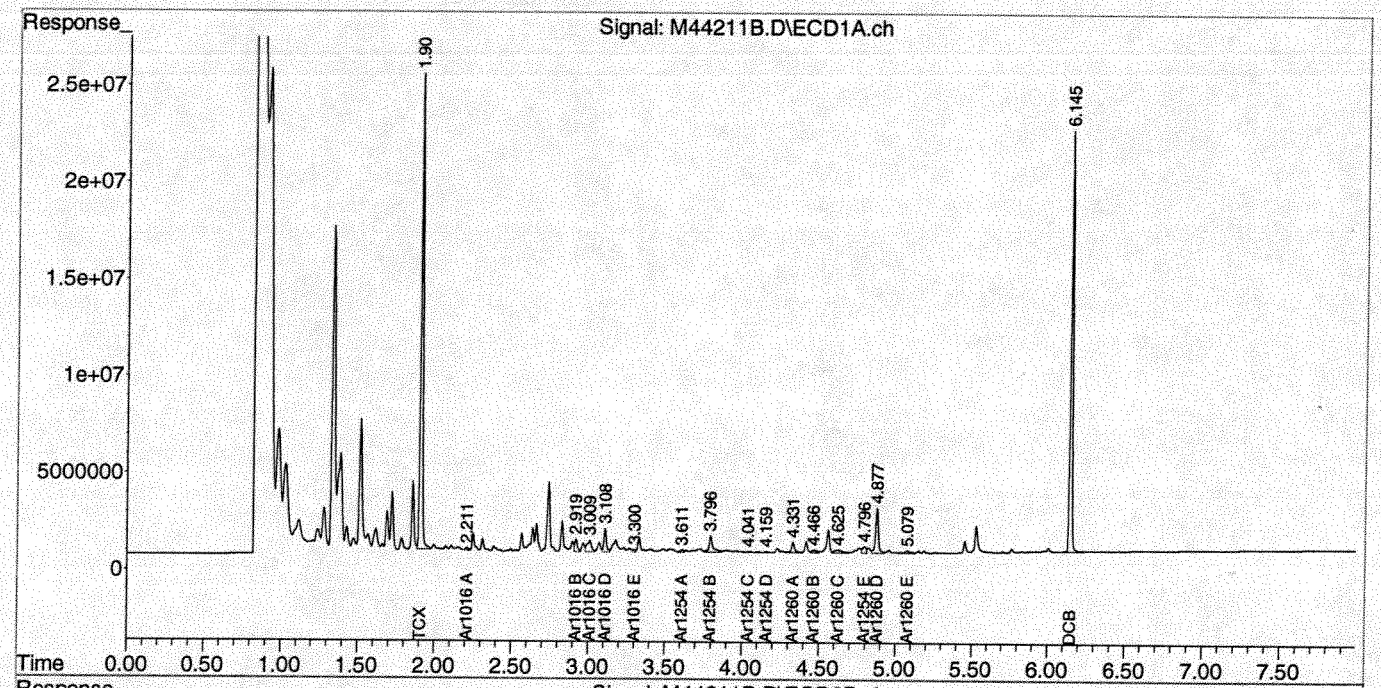
Authorized signature

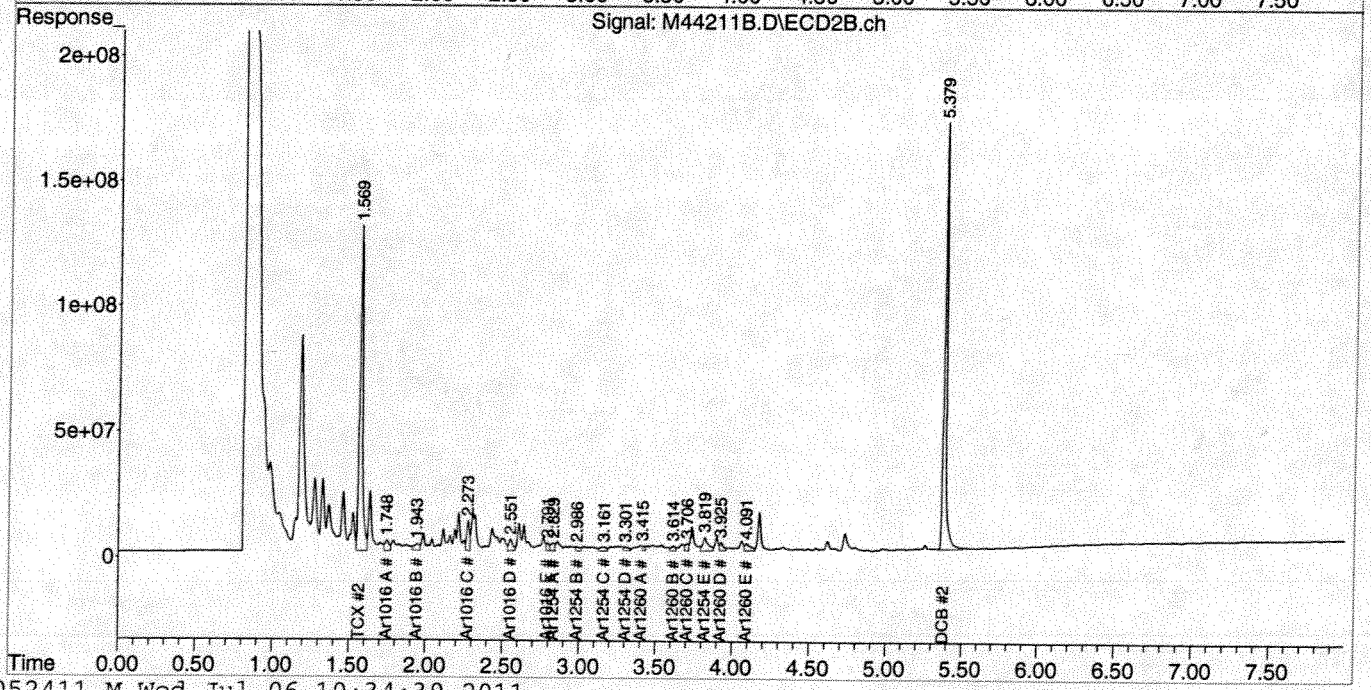
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\070511-M\
Data File : M44211B.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 5 Jul 2011 3:21 pm
Operator : JK
Sample : B070111PSOX,,A/C
Misc : SOIL
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 06 10:34:39 2011
Quant Method : C:\msdchem\1\METHODS\PCB052411.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Tue Jul 05 15:15:23 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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800-929-9906

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

July 8, 2011

SAMPLE DATA

Lab Sample ID:	70348-1
Matrix:	Solid
Percent Solid:	100
Dilution Factor:	1.0
Collection Date:	06/29/11
Lab Receipt Date:	07/01/11
Extraction Date:	07/01/11
Analysis Date:	07/05/11

CLIENT SAMPLE ID

Project Name:	USM Gorham
Project Number:	224164
Field Sample ID:	UH-VBB-056

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	33	U
PCB-1221	33	U
PCB-1232	33	U
PCB-1242	33	U
PCB-1248	33	U
PCB-1254	33	**244**
PCB-1260	33	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	84	%
Decachlorobiphenyl	80	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

COMMENTS: Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 70348
Sample: 70348-1,,A/C
Data File: M44214.D
Dilution Factor: 1.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/kg)	SAMPLE RESULT (ug/kg)	RPD	#
PCB 1254	244	204	17.9	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

Comments: _____

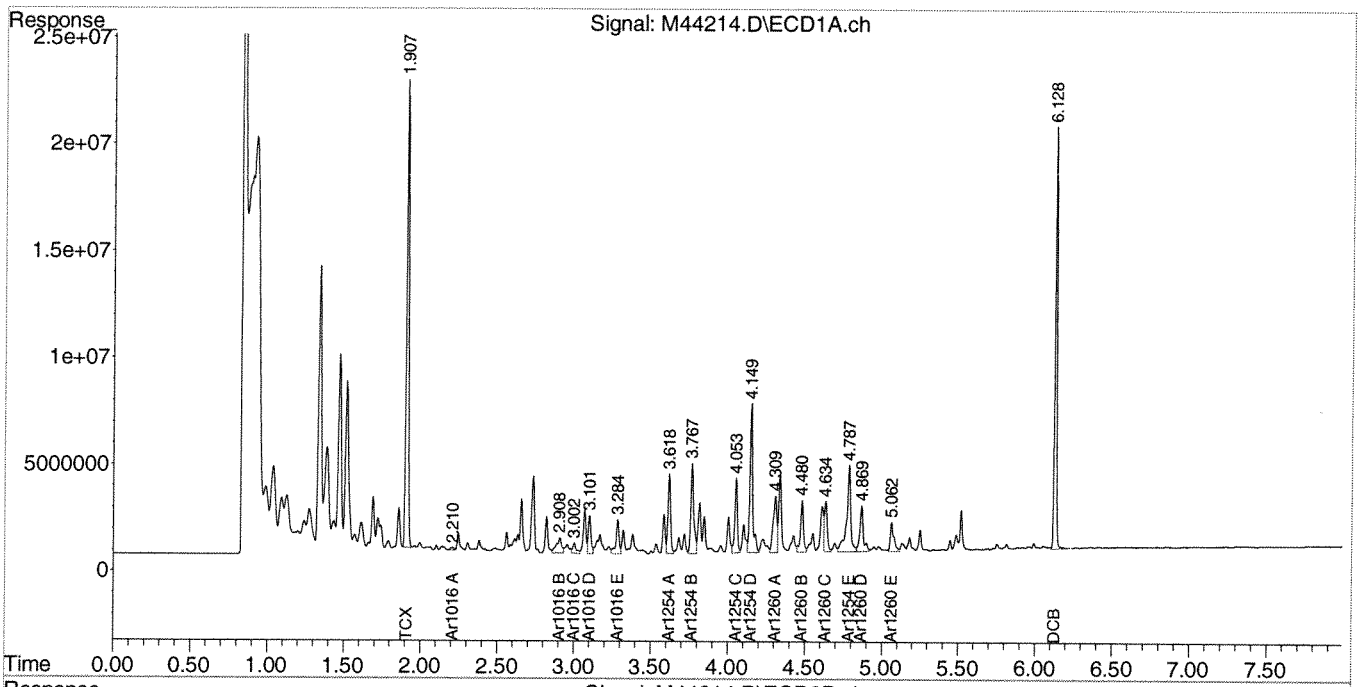
PCB FORM 10

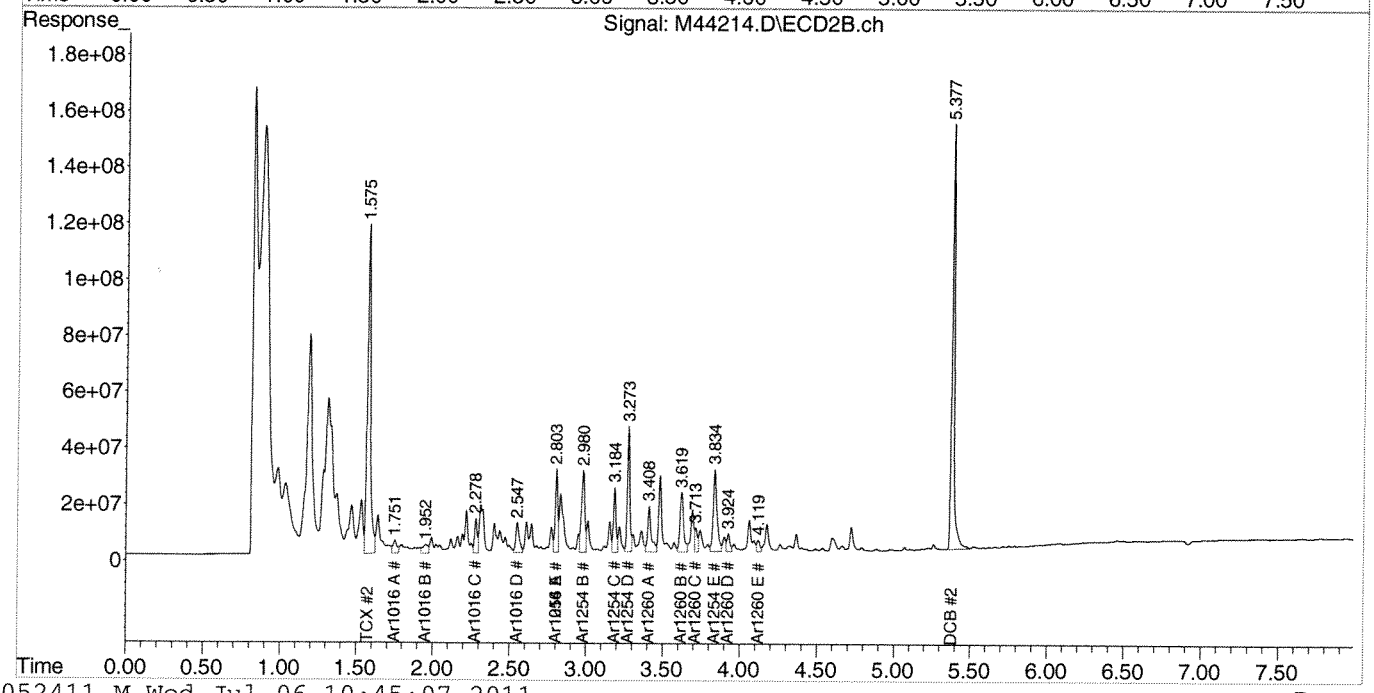
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070511-M\
Data File : M44214.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 5 Jul 2011 3:51 pm
Operator : JK
Sample : 70348-1,,A/C
Misc : SOIL
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 06 10:44:35 2011
Quant Method : C:\msdchem\1\METHODS\PCB052411.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Tue Jul 05 15:15:23 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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Ms. Amy Wallace
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41 Hutchins Drive
Portland ME 04102

July 8, 2011

SAMPLE DATA

Lab Sample ID: 70348-2
Matrix: Solid
Percent Solid: 100
Dilution Factor: 1.0
Collection Date: 06/29/11
Lab Receipt Date: 07/01/11
Extraction Date: 07/01/11
Analysis Date: 07/05/11

CLIENT SAMPLE ID

Project Name: USM Gorham
Project Number: 224164
Field Sample ID: UH-VBB-057

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	33	U
PCB-1221	33	U
PCB-1232	33	U
PCB-1242	33	U
PCB-1248	33	U
PCB-1254	33	**550**
PCB-1260	33	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	85	%
Decachlorobiphenyl	79	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 70348
Sample: 70348-2,,A/C
Data File: M44215.D
Dilution Factor: 1.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/kg)	SAMPLE RESULT (ug/kg)	RPD	#
PCB 1254	550	525	4.7	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

Comments: _____

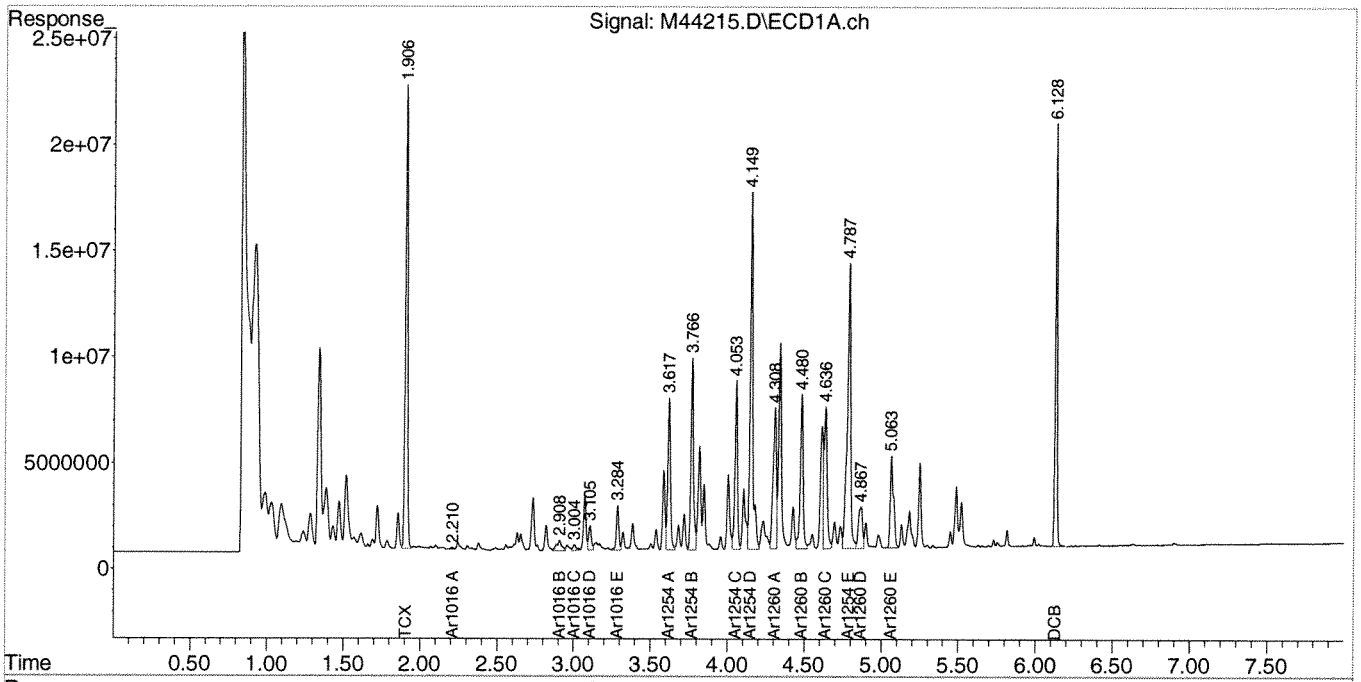
PCB FORM 10

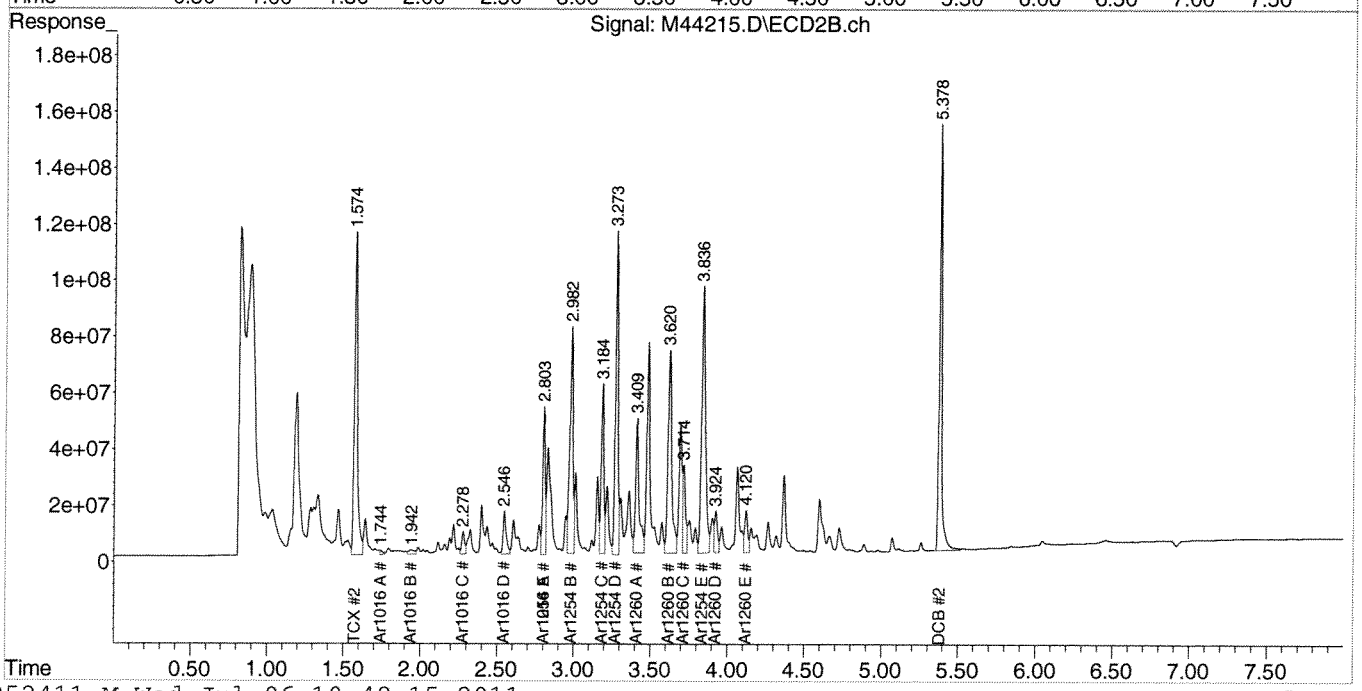
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070511-M\
Data File : M44215.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 5 Jul 2011 4:01 pm
Operator : JK
Sample : 70348-2,,A/C
Misc : SOIL
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 06 10:48:01 2011
Quant Method : C:\msdchem\1\METHODS\PCB052411.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Tue Jul 05 15:15:23 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

July 8, 2011

SAMPLE DATA

Lab Sample ID:	70348-3
Matrix:	Solid
Percent Solid:	100
Dilution Factor:	1.0
Collection Date:	06/29/11
Lab Receipt Date:	07/01/11
Extraction Date:	07/01/11
Analysis Date:	07/05/11

CLIENT SAMPLE ID

Project Name:	USM Gorham
Project Number:	224164
Field Sample ID:	UH-VBB-058

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	33	U
PCB-1221	33	U
PCB-1232	33	U
PCB-1242	33	U
PCB-1248	33	U
PCB-1254	33	**399**
PCB-1260	33	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	85	%
Decachlorobiphenyl	81	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

COMMENTS: Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 70348
Sample: 70348-3,,A/C
Data File: M44216.D
Dilution Factor: 1.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/kg)	SAMPLE RESULT (ug/kg)	RPD	#
PCB 1254	399	391	1.9	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

Comments: _____

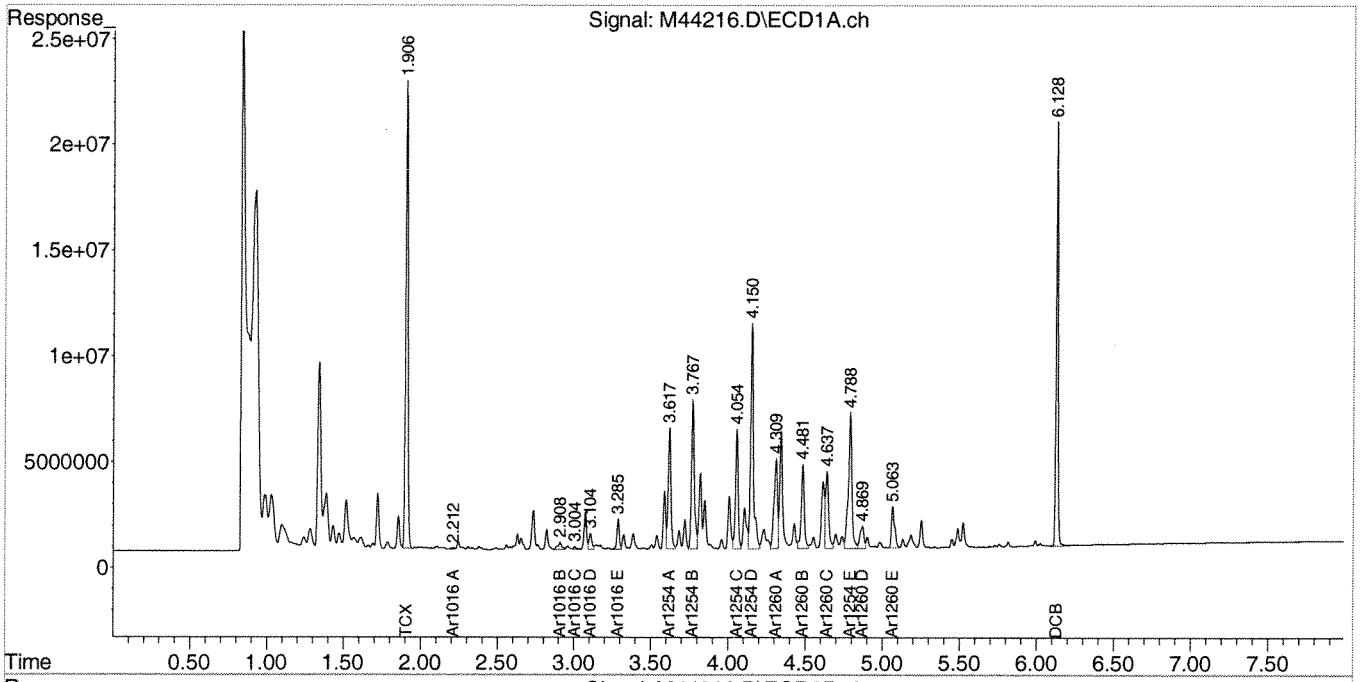
PCB FORM 10

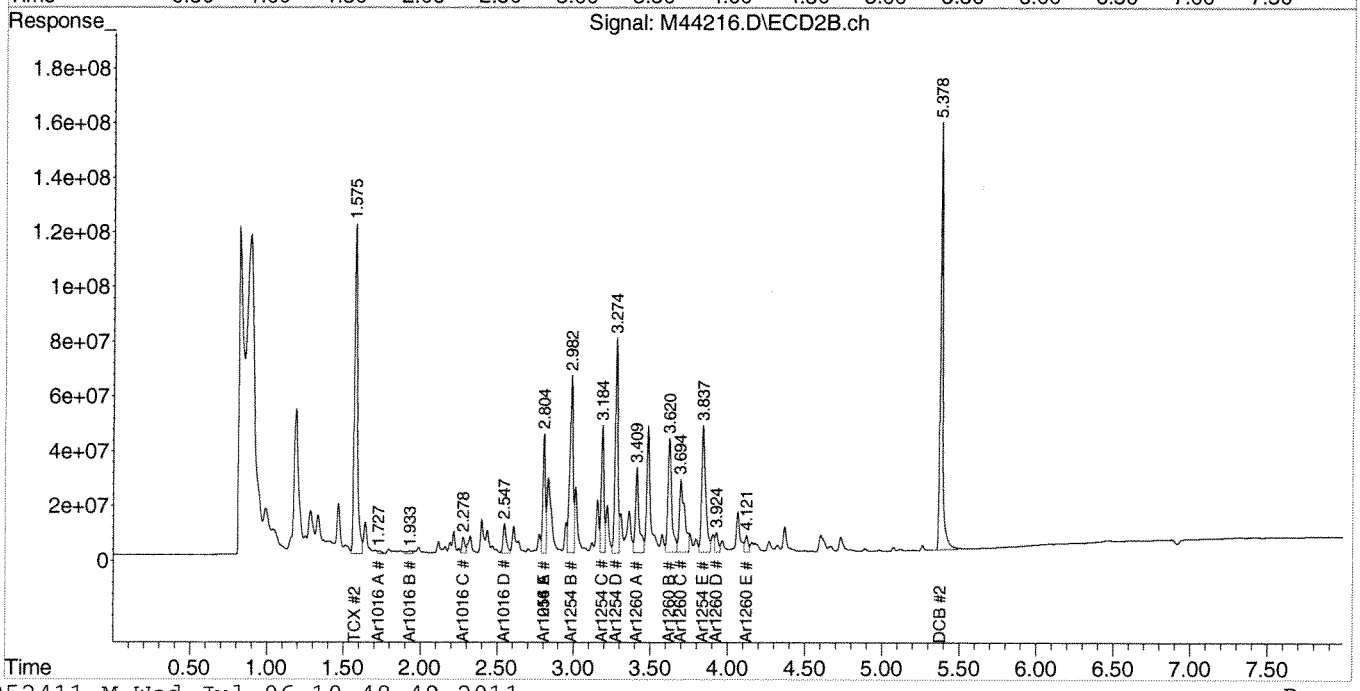
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\070511-M\
Data File : M44216.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 5 Jul 2011 4:11 pm
Operator : JK
Sample : 70348-3,,A/C
Misc : SOIL
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 06 10:48:37 2011
Quant Method : C:\msdchem\1\METHODS\PCB052411.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Tue Jul 05 15:15:23 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





PCB
QC FORMS

AnalyticsLLC:AEL Documents LLC:Pkg Dividers:PCBQC.doc

PCB SOIL
SYSTEM MONITORING COMPOUNDS
SUMMARY

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 70348

	Column #1				Column #2			
SAMPLE ID	SMC 1 (%)	#	SMC 2 (%)	#	SMC 1 (%)	#	SMC 2 (%)	#
B070111PSOX,,A/C	89		88		80		86	
L070111PSOX,,A/C	90		87		81		85	
LD070111PSOX,,A/C	83		82		77		80	
70348-1,,A/C	84		80		79		75	
70348-2,,A/C	85		79		76		76	
70348-3,,A/C	85		81		78		78	

		Lower Limit	Upper Limit
SMC #1 =	TCX	40	130
SMC #2 =	DCB	40	130

Column to be used to flag recovery values outside of QC limits
* Values outside QC limits
D System Monitoring Compound diluted out

PCB FORM 2

PCB SOIL
LABORATORY CONTROL SAMPLE/DUPLICATE
PERCENT RECOVERY

Instrument ID: M

GC Column #1: STX-CLPesticides I

Column ID: 0.25 mm

GC Column #2: STX-CLPesticides II

Column ID: 0.25 mm

SDG: 70348

Non-spiked sample: B070111PSOX,,A/C

Spike: L070111PSOX,,A/C

Spike duplicate: LD070111PSOX,,A/C

COMPOUND	LCS SPIKE ADDED (ug/kg)	LCSD SPIKE ADDED (ug/kg)	LOWER LIMIT	UPPER LIMIT	RPD LIMIT	NON-SPIKE RESULT (ug/kg)	SPIKE RESULT (ug/kg)	SPIKE % REC	#	SPIKE DUP RESULT (ug/kg)	SPIKE DUP % REC	#	RPD	#
PCB 1016	200	200	65	140	30	0	235	118		222	111		5.8	
PCB 1260	200	200	60	130	30	0	230	115		216	108		6.4	
PCB 1016 #2	200	200	65	140	30	0	228	114		248	124		8.3	
PCB 1260 #2	200	200	60	130	30	0	204	102		189	95		7.2	

Column to be used to flag recovery and RPD values outside of QC limits

* Values outside QC limits

LCS/LCSD spike added values have been weight adjusted.

Non-spike result of "0" used in place of "U" to allow calculation of spike recovery.

Comments: _____

_____

PCB FORM 3

CHAIN OF CUSTODIES

Chain Of Custody Form

analytics environmental laboratory LLC
195 Commerce Way, Suite E
Portsmouth, NH 03801
(800) 929-9906
(603) 436-5111
(603) 430-2151 Fax

Project#: 224164 Proj. Name: VSM Corham
Company: Woodard + Curran
Report to: Amy Wallace
Address: 41 Hutchins Dr
Portland ME 04102
Phone: 207-774-2112
Quote #:
PO# (if required):

For Analytics Use Only
Samples were: 1) Shipped or hand-delivered
2) Temperature (°C): 3.8°C
3) Received in good condition: Y or N
4) pH checked by: N/A
5) Labels checked by: CR 7.1.11

Circle and/or Write Required Analysis

Matrix Key:
C = Concrete, WP = Wipe, WW = Wastewater, SW = Surface Water, E = Extract, GW = Groundwater, DW = Drinking Water, S = Soil / Sludge, O = Oil, X = Other

Station Identification	Sample Date	Sample Time	Preservation: Unpres	4° C	HNO_3	H_2SO_4	HCl	Methanol	Other	Field Filtered? Y or N	VOC: 8260 524.2 624	SVOC: 8270 625 PAH only SIM	Pesticides: 8081 608	PCB: 8082 608	Soxhlet: Y or N	TPH: 8015DRO 8015GRO 8100M	EPH: Full (includes targets) Ranges only	VPH: Full (includes targets) Ranges only	Metals: RCRA8 PP13 TAL23 Other*	Matrix	No. of Containers	pH checked	Analytics Sample #
UH-VBB-056	6/29/11	9:30		X										X						Brick	1		70348-1
UH-VBB-057	6/29/11	9:45		X										X						Brick	1		2
UH-VBB-058	6/29/11	10:15		X										X						Brick	1		3

AW 7/1/11

Email Results to:
awallace@woodardcurran.com
sluczko@

Turnaround Time (TAT)
- [ ] 24 Hours*
- [ ] 48 Hours*
- [ ] 72 Hours*
- [x] 5 Days*
- [ ] 10 Days

*Fee may apply; lab approval required

Comments, Additional Analyses, or Special Instructions:

* List requested metals here

Project Requirements:
*Fee may apply

Report Type:
- [ ] MCP*
- [ ] CTRCP*
- [ ] DOD*
- [x] Level II*
- [ ] Level III*
- [ ] Level IV*
- [ ] Standard

State:
- [ ] NH
- [ ] MA
- [x] ME
- [ ] CT
- [ ] RI

Other:

State Standard:
(eg. S-1 or GW-1)
EDD Required: Y* N
Type:

Sampler Name (Print): Amy Wallace

Relinquished By	Date	Time	Received By
Sampler: Amy Wallace	7/1/11	10:15	Cold storage
Carol Stoffel	7/1/11	1045	[signature]
			[signature] VSM 7-1-11

ANALYTICS SAMPLE RECEIPT CHECKLIST

analytics environmental laboratory LLC

AEL LAB#: 70348 COOLER NUMBER: 188

CLIENT: WOODARD NUMBER OF COOLERS: 1

PROJECT: VSM GORHAM DATE RECEIVED: 7-1-11

A: PRELIMINARY EXAMINATION: DATE COOLER OPENED: 7-1-11

1. Cooler received by(initials): VM Date Received: 7-1-11

2. Circle one: Hand delivered (If so, skip 3) Shipped

3. Did cooler come with a shipping slip? Y N

3a. Enter carrier name and airbill number here: _____

4. Were custody seals on the outside of cooler? Y N
How many & where: _____ Seal Date: _____ Seal Name: _____

5. Did the custody seals arrive unbroken and intact upon arrival? Y N/A

6. COC#. _____

7. Were Custody papers filled out properly (ink,signed, etc)? Y N

8. Were custody papers sealed in a plastic bag? Y N

9. Did you sign the COC in the appropriate place? Y N

10. Was the project identifiable from the COC papers? Y N

11. Was enough ice used to chill the cooler? Y N Temp. of cooler: 3-8°C

B. Log-In: Date samples were logged in: 7-1-11 By: VM

12. Type of packing in cooler(bubble wrap, popcorn) Y N

13. Were all bottles sealed in separate plastic bags? Y N

14. Did all bottles arrive unbroken and were labels in good condition? Y N

15. Were all bottle labels complete(ID,Date,time,etc.) Y N

16. Did all bottle labels agree with custody papers? Y N

17. Were the correct containers used for the tests indicated: Y N

18. Were samples received at the correct pH? Y N/A

19. Was sufficient amount of sample sent for the tests indicated? Y N

20. Were all samples submitted within holding time? Y N

21. Were bubbles absent in VOA samples? Y N/A

If NO, List Sample ID's and Lab #s: _____

22. Laboratory labeling verified by (initials): OP Date: 7.1.11

analytics environmental laboratory LLC

195 Commerce Way Suite E
Portsmouth, New Hampshire 03801
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800-929-9906
www.analyticslab.com

July 24, 2011

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

RE: Analytical Results Case Narrative
Analytics # 70482
USM Gorham Proj# 224164

Dear Ms. Wallace;

Enclosed please find the analytical results for samples submitted for the above-mentioned project. The attached Cover Page lists the sample IDs, Lab tracking numbers and collection dates for the samples included in this deliverable.

Samples were analyzed for Polychlorinated Biphenyls (PCBs) by EPA Method 8082.

Unless otherwise noted in the Non-conformance Summary listed below, all of the quality control (QC) criteria including initial calibration, calibration verification, surrogate recovery, holding time and method accuracy/precision for these analyses were within acceptable limits.

This Level II data package has been assembled in the following order:

Case Narrative/Non-Conformance Summary
Sample Log Sheet - Cover Page
PCB Form 1 Data Sheet for Samples and Blanks
Chromatograms
PCB Form 10 Confirmation Results
PCB Form 3 MS/MSD (LCS) Recoveries
Chain of Custody (COC) Forms

MelissaDrive:Users:melissagulli:Desktop:USM 70482.doc

QC NON-CONFORMANCE SUMMARY

Sample Receipt:
Samples were received at 26^0 C which is above the laboratory acceptance criteria. The client was contacted and instructed the laboratory to continue with the analysis.

PCBs by EPA Method 8082:
No results were reported below the quantitation limit.

Samples 70482-1 thru 70482-3 required dilution due to concentrations of PCBs that exceeded the calibration range of the instrument.

If you have any questions on these results, please do not hesitate to contact me.

Sincerely,
ANALYTICS Environmental Laboratory, LLC

Stephen L. Knollmeyer
Laboratory Director

MelissaDrive:Users:melissagulli:Desktop:USM 70482.doc

analytics environmental laboratory LLC

195 Commerce Way Suite E
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603-436-5111 Fax 603-430-2151
800-929-9906
www.analyticslab.com

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

Report Number: 70482

Revision: Rev. 0

Re: USM Gorham PCBs (Project No: 224164)

Enclosed are the results of the analyses on your sample(s). Samples were received on 15 July 2011 and analyzed for the tests listed. Samples were received in acceptable condition, with the exceptions noted below or on the chain of custody. These results pertain to samples as received by the laboratory and for the analytical tests requested on the chain of custody. The results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. Please see individual reports for specific methodologies and references.

Lab Number	Sample Date	Station Location	Analysis	Comments
70482-1	07/11/11	UH-VWM-059	EPA 8082 (PCBs only)	
70482-2	07/12/11	UH-VWM-060	EPA 8082 (PCBs only)	
70482-3	07/12/11	UH-VWM-061	EPA 8082 (PCBs only)	
70482-4	07/13/11	UH-VWE-062	EPA 8082 (PCBs only)	
70482-5	07/14/11	UH-VWE-063	EPA 8082 (PCBs only)	

Sample Receipt Exceptions: None

Analytics Environmental Laboratory is certified by the states of New Hampshire, Maine, Massachusetts, Connecticut, Rhode Island, Virginia, Maryland, and is accredited by the Deparment of Defense (DOD) ELAP program. A list of actual certified parameters is available upon request.

If you have any questions on these results, please do not hesitate to contact us.

Authorized signature _____
Stephen L. Knollmeyer Lab. Director

Date 07/25/2011

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Surrogate Compound Limits

Matrix:	Aqueous	Solid	
Units:	% Recovery	% Recovery	Method
Volatile Organic Compounds - Drinking Water			
1,4-Difluorobenzene	70-130		EPA 524.2
Bromofluorobenzene	70-130		
1,2-Dichlorobenzene-d4	70-130		
Volatile Organic Compounds			
1,2-Dichloroethane-d4	70-120	70-120	EPA 624/8260B
Toluene-d8	85-120	85-120	
Bromofluorobenzene	75-120	75-120	
Semi-Volatile Organic Compounds			
2-Fluorophenol	20-110	35-105	EPA 625/8270C
d5-Phenol	15-110	40-100	
d5-nitrobenzene	40-110	35-100	
2-Fluorobiphenyl	50-110	45-105	
2,4,6-Tribromophenol	40-110	40-125	
d14-p-terphenyl	50-130	30-125	
PAH's by SIM			
d5-nitrobenzene	21-110	35-110	EPA 8270C
2-Fluorobiphenyl	36-121	45-105	
d14-p-terphenyl	33-141	30-125	
Pesticides and PCBs			
2,4,5,6-Tetrachloro-m-xylene (TCX)	46-122	40-130	EPA 608/8082
Decachlorobiphenyl (DCB)	40-135	40-130	
Herbicides			
Dichloroacetic acid (DCAA)	30-150	30-150	
Gasoline Range Organics/TPH Gasoline			
Trifluorotoluene TFT (FID)	60-140	60-140	MEDEP 4217/EPA 8015
Bromofluorobenzene (BFB) (FID)	60-140	60-140	
Trifluorotoluene TFT (PID)	60-140	60-140	
Bromofluorobenzene (BFB) (PID)	60-140	60-140	
Diesel Range Organics/TPH Diesel			
m-terphenyl	60-140	60-140	MEDEP 4125/EPA 8015/CT ETPH
Volatile Petroleum Hydrocarbons			
2,5-Dibromotoluene (PID)	70-130	70-130	MADEP VPH May 2004 Rev1.1
2,5-Dibromotoluene (FID)	70-130	70-130	
Extracatable Petroleum Hydrocarbons			
1-chloro-octadecane (aliphatic)	40-140	40-140	MADEP EPH May 2004 Rev1.1
o-Terphenyl (aromatic)	40-140	40-140	
2-Fluorobiphenyl (Fractionation)	40-140	40-140	
2-Bromonaphthalene (fractionation)	40-140	40-140	

PCB
DATA SUMMARIES

analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

July 22, 2011

SAMPLE DATA

Lab Sample ID: B071611PSOX2
Matrix: Wipe
Percent Solid: N/A
Dilution Factor: 1.0
Collection Date:
Lab Receipt Date:
Extraction Date: 07/16/11
Analysis Date: 07/22/11

CLIENT SAMPLE ID

Project Name: USM Gorham PCBs
Project Number: 224164
Field Sample ID: Lab QC

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	U
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	89	%
Decachlorobiphenyl	54	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

PCB Report

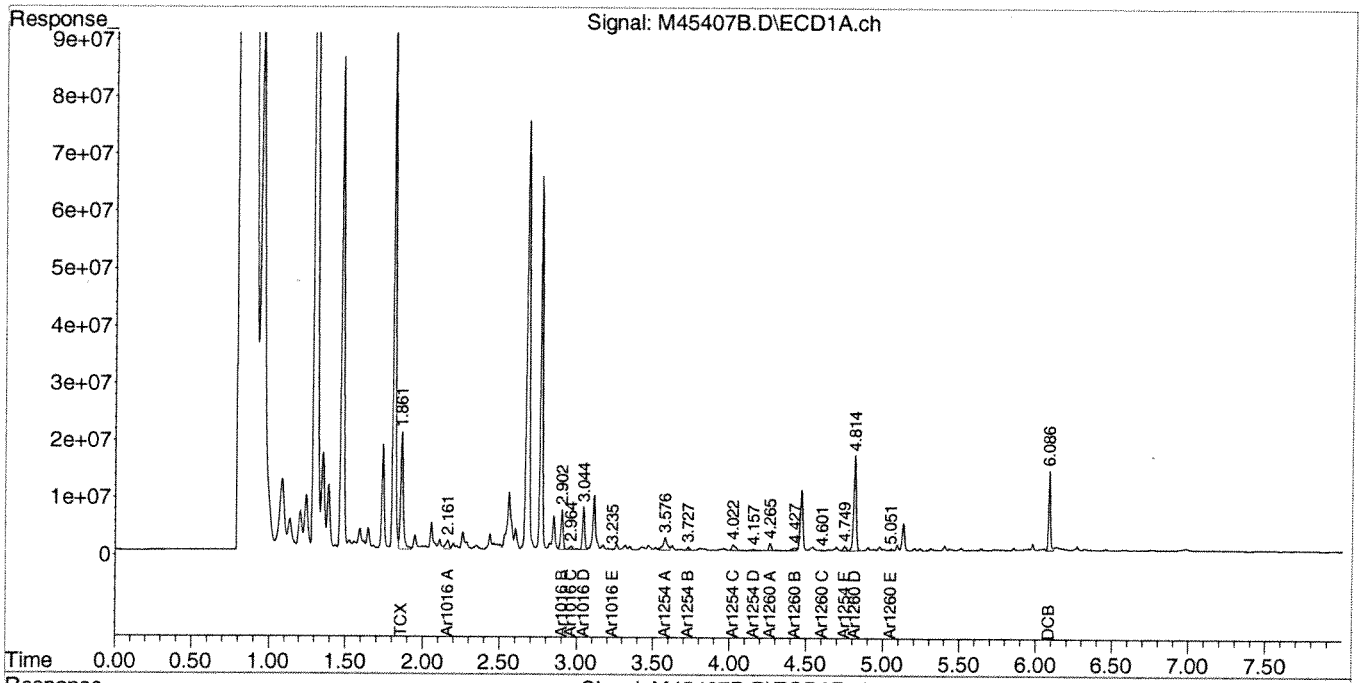
Authorized signature Angelina Richard

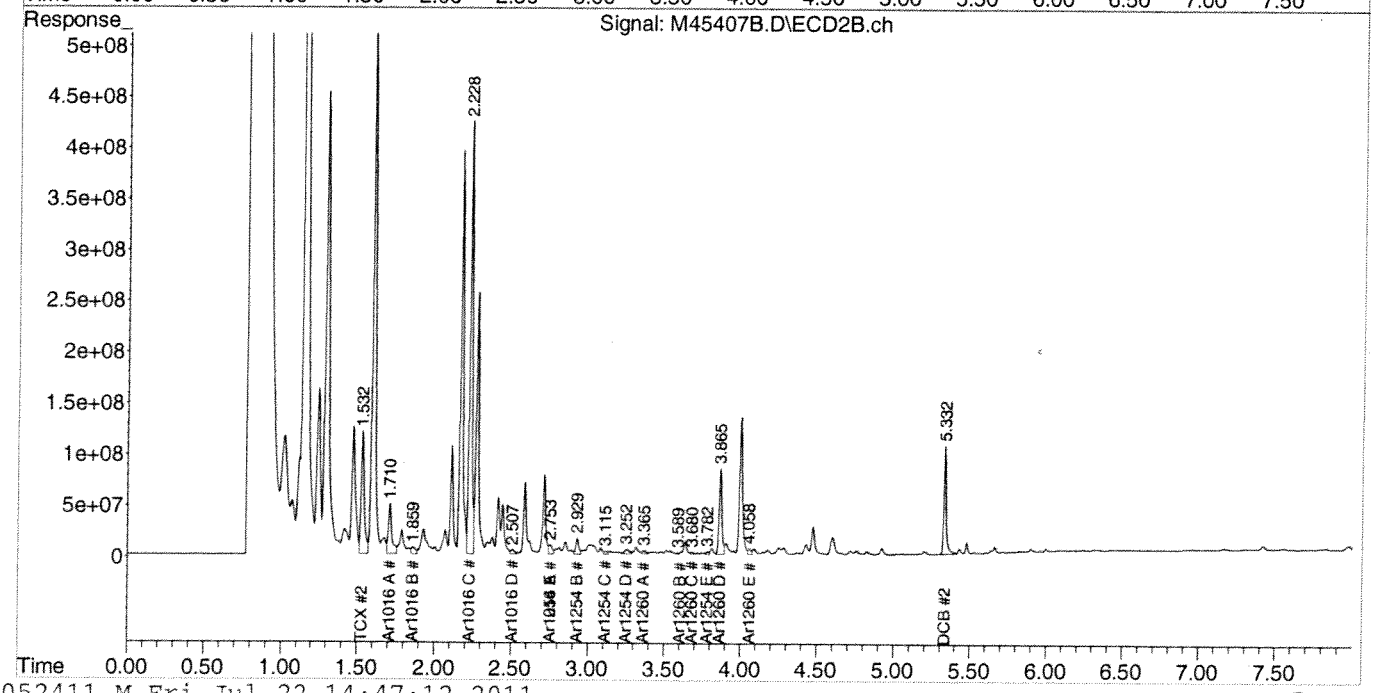
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\072211-M\
Data File : M45407B.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2011 11:08 am
Operator : JK
Sample : B071611PSOX2,,A/C
Misc : SOIL
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 22 14:47:12 2011
Quant Method : C:\msdchem\1\METHODS\PCB052411.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Tue Jul 19 15:55:56 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





analytics environmental laboratory LLC

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Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

July 22, 2011

SAMPLE DATA

Lab Sample ID: 70482-1
Matrix: Wipe
Percent Solid: N/A
Dilution Factor: 20
Collection Date: 07/11/11
Lab Receipt Date: 07/15/11
Extraction Date: 07/16/11
Analysis Date: 07/22/11

CLIENT SAMPLE ID

Project Name: USM Gorham PCBs
Project Number: 224164
Field Sample ID: UH-VWM-059

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	10	U
PCB-1221	10	U
PCB-1232	10	U
PCB-1242	10	U
PCB-1248	10	U
PCB-1254	10	**123**
PCB-1260	10	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	*	%
Decachlorobiphenyl	*	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS: * The surrogates were diluted out.

PCB Report

Authorized signature Angelina Richard

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG:
Sample: 70482-1,1:20,,A/C
Data File: M45417.D
Dilution Factor: 20.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/wipe)	SAMPLE RESULT (ug/wipe)	RPD	#
PCB 1254	123	121	1.5	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

Comments: _____

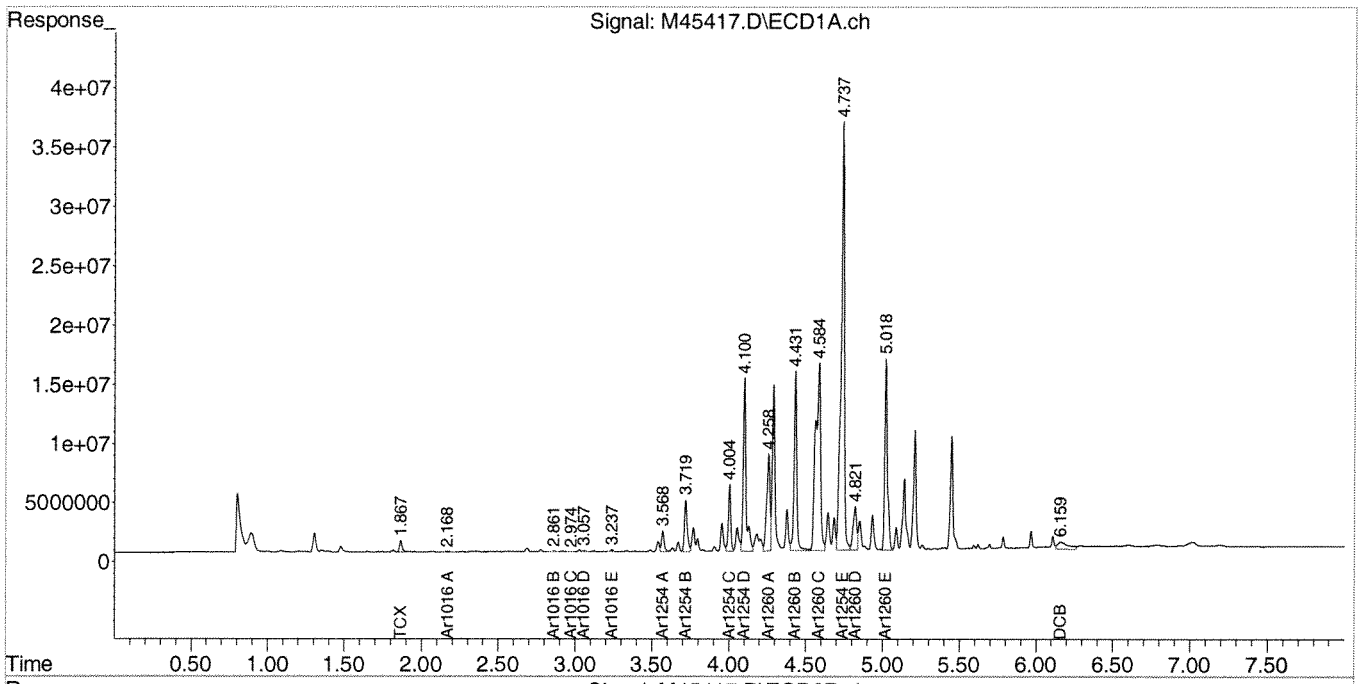
PCB FORM 10

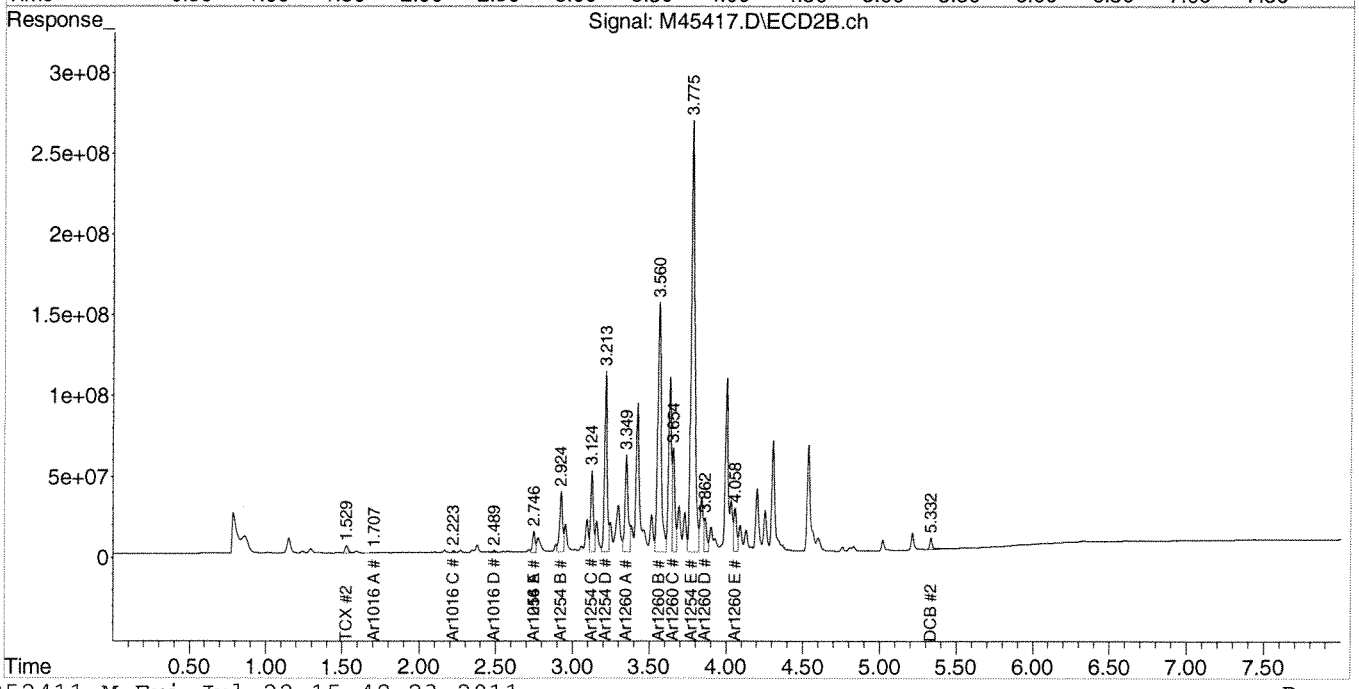
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\072211-M\
Data File : M45417.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2011 1:06 pm
Operator : JK
Sample : 70482-1,1:20,,A/C
Misc : SOIL
ALS Vial : 21 Sample Multiplier: 1

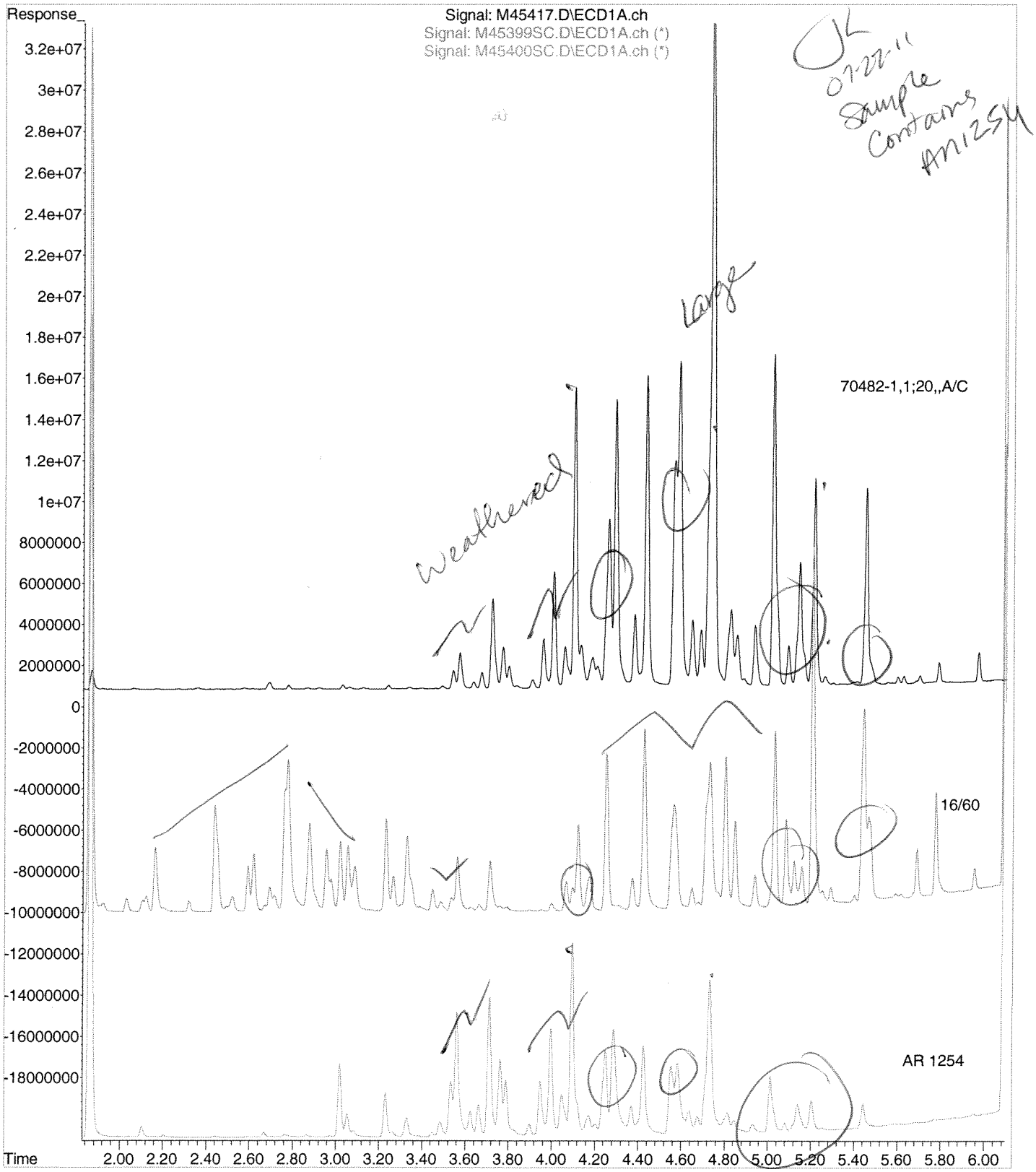
Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 22 14:47:26 2011
Quant Method : C:\msdchem\1\METHODS\PCB052411.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Tue Jul 19 15:55:56 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





File :C:\msdchem\1\DATA\072211-M\M45417.D
Operator : JK
Acquired : 22 Jul 2011 1:06 pm using AcqMethod PCB.M
Instrument : Instrument M
Sample Name: 70482-1,1:20,,A/C
Misc Info : SOIL
Vial Number: 21



analytics environmental laboratory LLC

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603-436-5111 Fax 603-430-2151
800-929-9906

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

July 22, 2011

SAMPLE DATA

Lab Sample ID: 70482-2
Matrix: Wipe
Percent Solid: N/A
Dilution Factor: 5.0
Collection Date: 07/12/11
Lab Receipt Date: 07/15/11
Extraction Date: 07/16/11
Analysis Date: 07/22/11

CLIENT SAMPLE ID

Project Name: USM Gorham PCBs
Project Number: 224164
Field Sample ID: UH-VWM-060

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	2.5	U
PCB-1221	2.5	U
PCB-1232	2.5	U
PCB-1242	2.5	U
PCB-1248	2.5	U
PCB-1254	2.5	**22**
PCB-1260	2.5	**32**

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	88	%
Decachlorobiphenyl	77	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

PCB Report

Authorized signature Angelina Richard

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 70482
Sample: 70482-2,1:5,,A/C
Data File: M45418.D
Dilution Factor: 5.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/wipe)	SAMPLE RESULT (ug/wipe)	RPD	#
PCB 1260	32	27	19.0	
PCB 1254	22	22	1.1	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

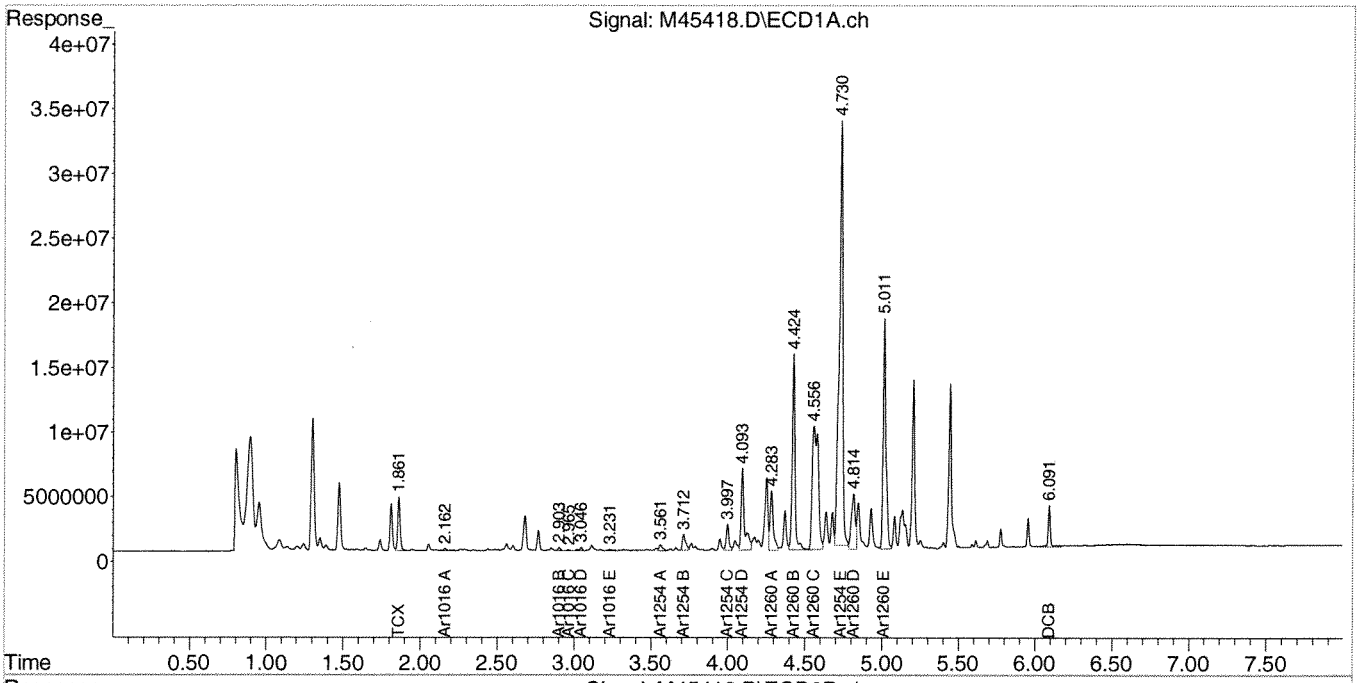
Comments: _____

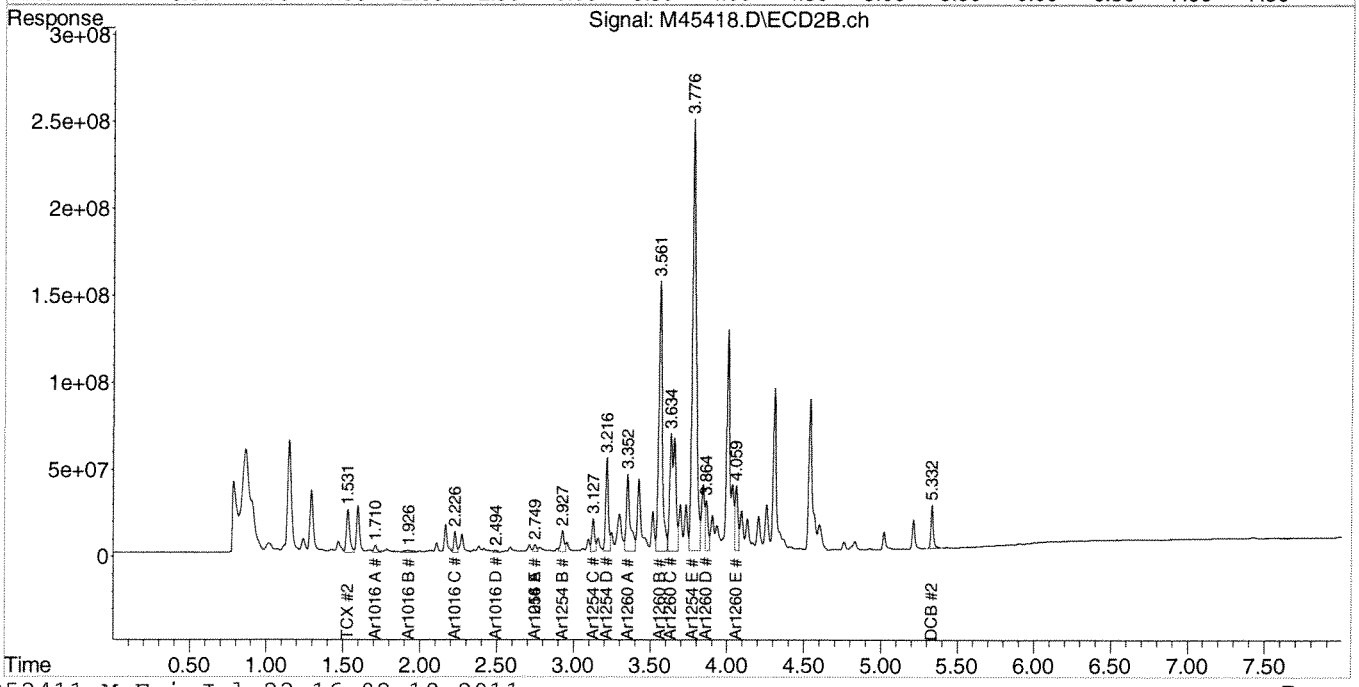
PCB FORM 10

Data Path : C:\msdchem\1\DATA\072211-M\
Data File : M45418.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2011 1:17 pm
Operator : JK
Sample : 70482-2,1:5,,A/C
Misc : SOIL
ALS Vial : 22 Sample Multiplier: 1

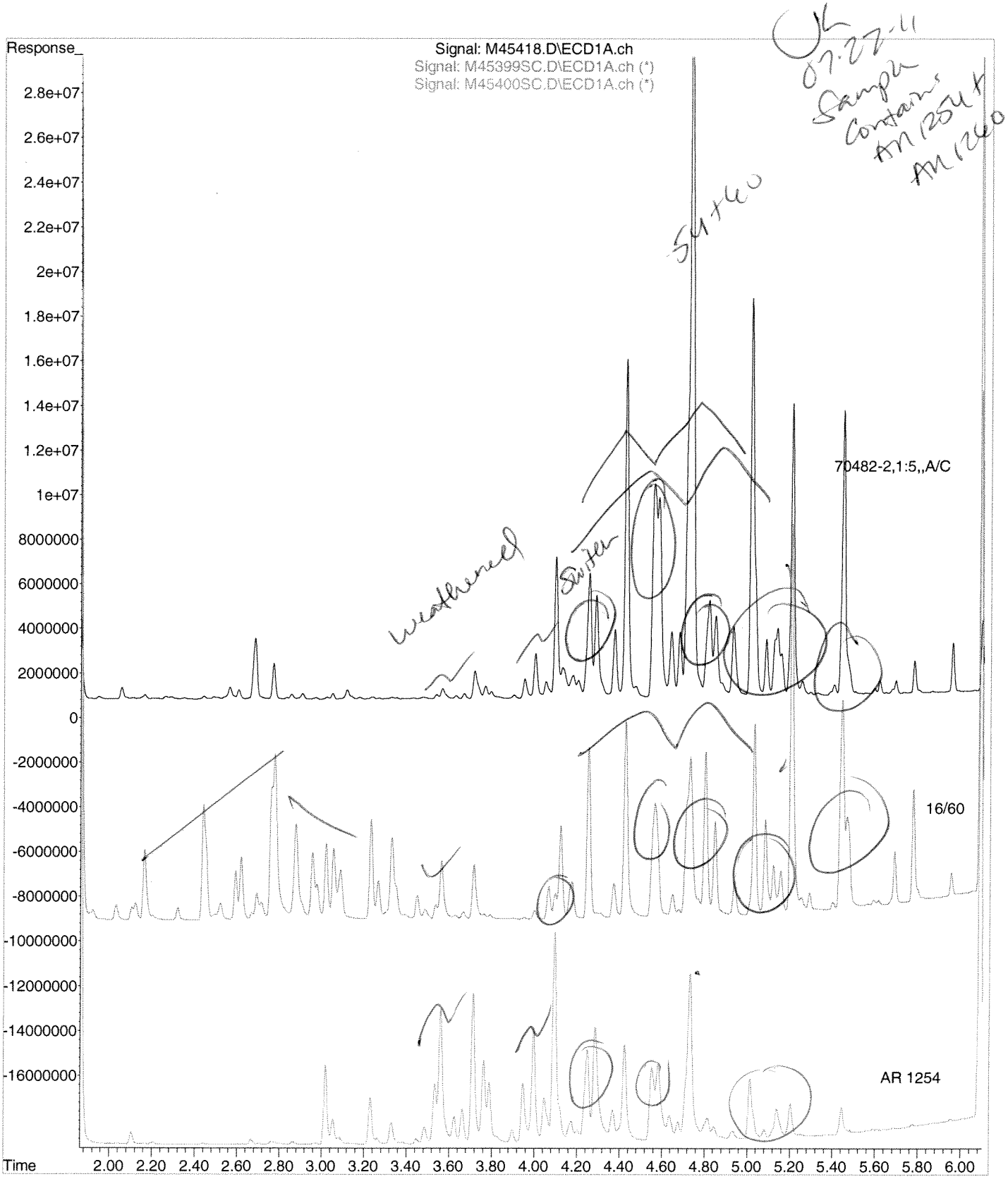
Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 22 16:02:10 2011
Quant Method : C:\msdchem\1\METHODS\PCB052411.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Tue Jul 19 15:55:56 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





File :C:\msdchem\1\DATA\072211-M\M45418.D
Operator : JK
Acquired : 22 Jul 2011 1:17 pm using AcqMethod PCB.M
Instrument : Instrument M
Sample Name: 70482-2,1:5,,A/C
Misc Info : SOIL
Vial Number: 22



analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

July 22, 2011

SAMPLE DATA

Lab Sample ID: 70482-3
Matrix: Wipe
Percent Solid: N/A
Dilution Factor: 50
Collection Date: 07/12/11
Lab Receipt Date: 07/15/11
Extraction Date: 07/16/11
Analysis Date: 07/22/11

CLIENT SAMPLE ID

Project Name: USM Gorham PCBs
Project Number: 224164
Field Sample ID: UH-VWM-061

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	25	U
PCB-1221	25	U
PCB-1232	25	U
PCB-1242	25	U
PCB-1248	25	U
PCB-1254	25	**391**
PCB-1260	25	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	*	%
Decachlorobiphenyl	*	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS: * The surrogates were diluted out.

PCB Report

Authorized signature Angelina Richard

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 70482
Sample: 70482-3,1:50,,A/C
Data File: M45419.D
Dilution Factor: 50.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/wipe)	SAMPLE RESULT (ug/wipe)	RPD	#
PCB 1254	371	391	5.1	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

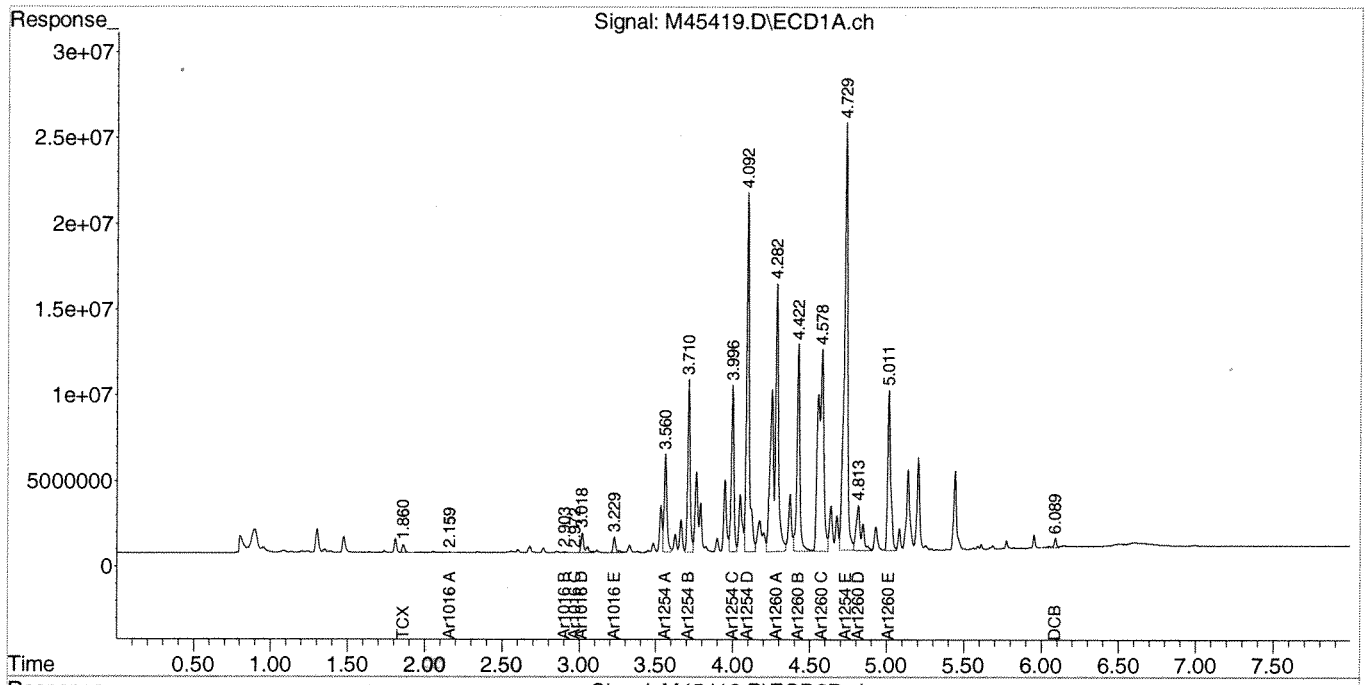
Comments: _____

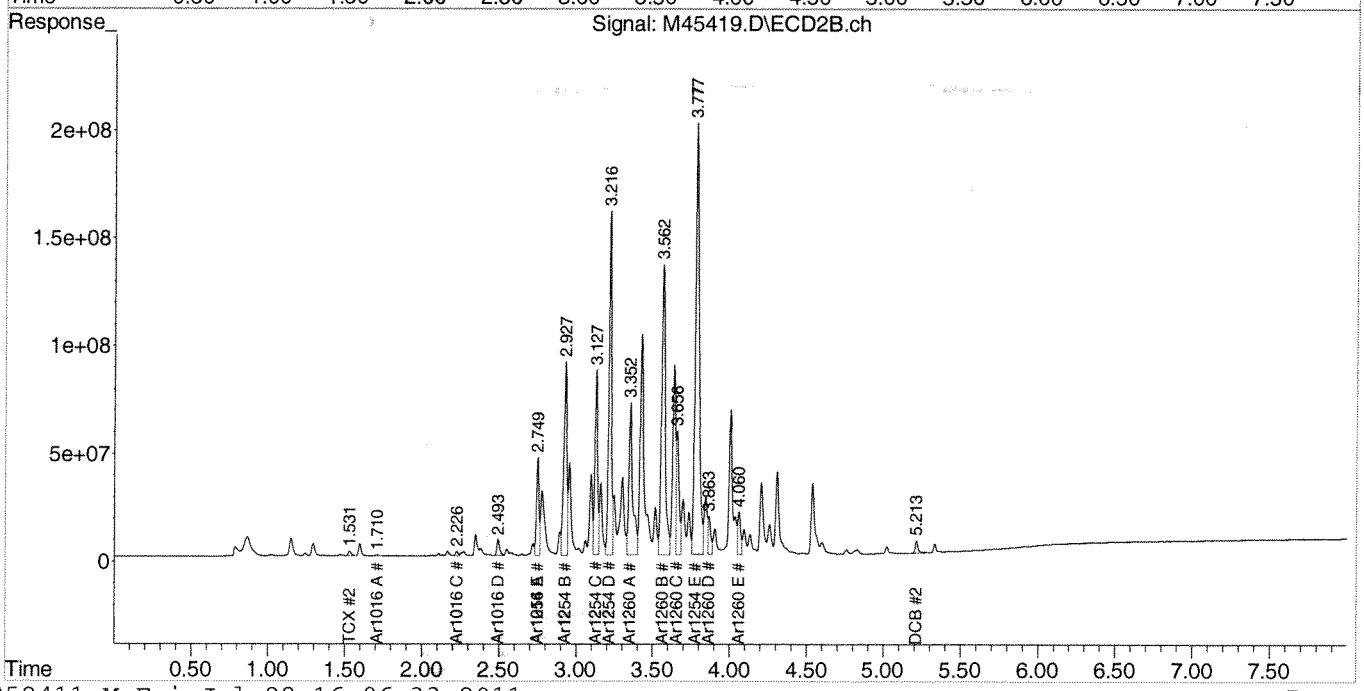
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\072211-M\
Data File : M45419.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2011 1:27 pm
Operator : JK
Sample : 70482-3,1:50,,A/C
Misc : SOIL
ALS Vial : 23 Sample Multiplier: 1

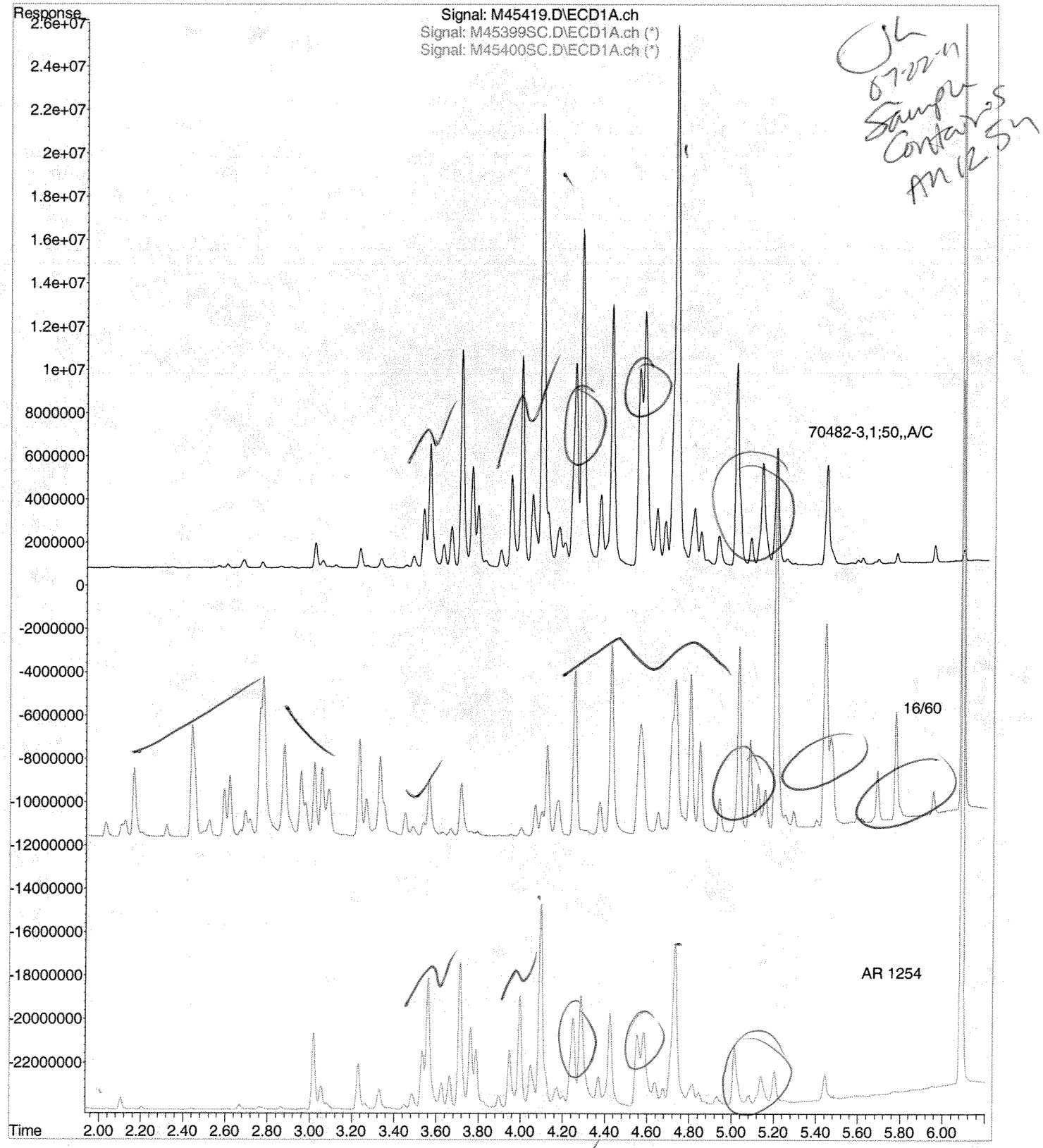
Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 22 16:06:24 2011
Quant Method : C:\msdchem\1\METHODS\PCB052411.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Tue Jul 19 15:55:56 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





File :C:\msdchem\1\DATA\072211-M\M45419.D
Operator : JK
Acquired : 22 Jul 2011 1:27 pm using AcqMethod PCB.M
Instrument : Instrument M
Sample Name: 70482-3,1:50,,A/C
Misc Info : SOIL
Vial Number: 23



JK 07-22-11 Sample Contains AR 1254

analytics environmental laboratory LLC

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Portsmouth, New Hampshire 03801
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800-929-9906

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

July 22, 2011

SAMPLE DATA

Lab Sample ID: 70482-4
Matrix: Wipe
Percent Solid: N/A
Dilution Factor: 1.0
Collection Date: 07/13/11
Lab Receipt Date: 07/15/11
Extraction Date: 07/16/11
Analysis Date: 07/22/11

CLIENT SAMPLE ID

Project Name: USM Gorham PCBs
Project Number: 224164
Field Sample ID: UH-VWE-062

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	U
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	73	%
Decachlorobiphenyl	51	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

PCB Report

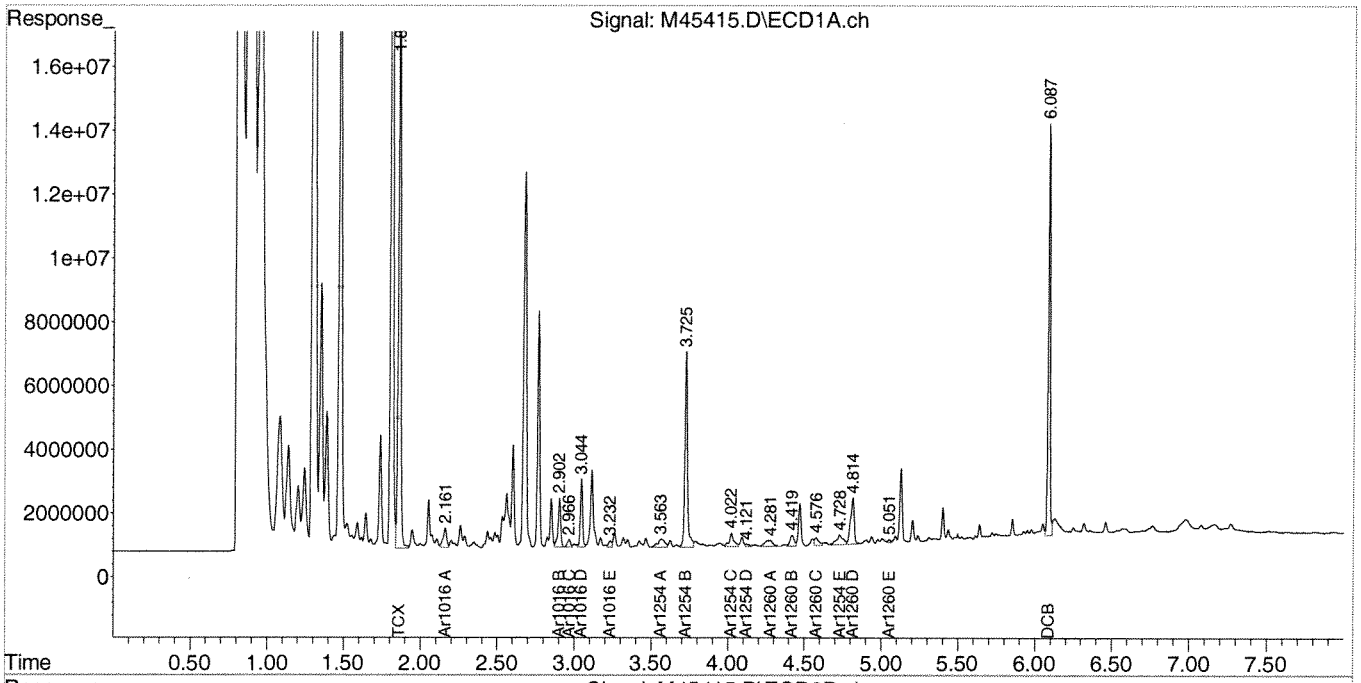
Authorized signature Angelena Richard

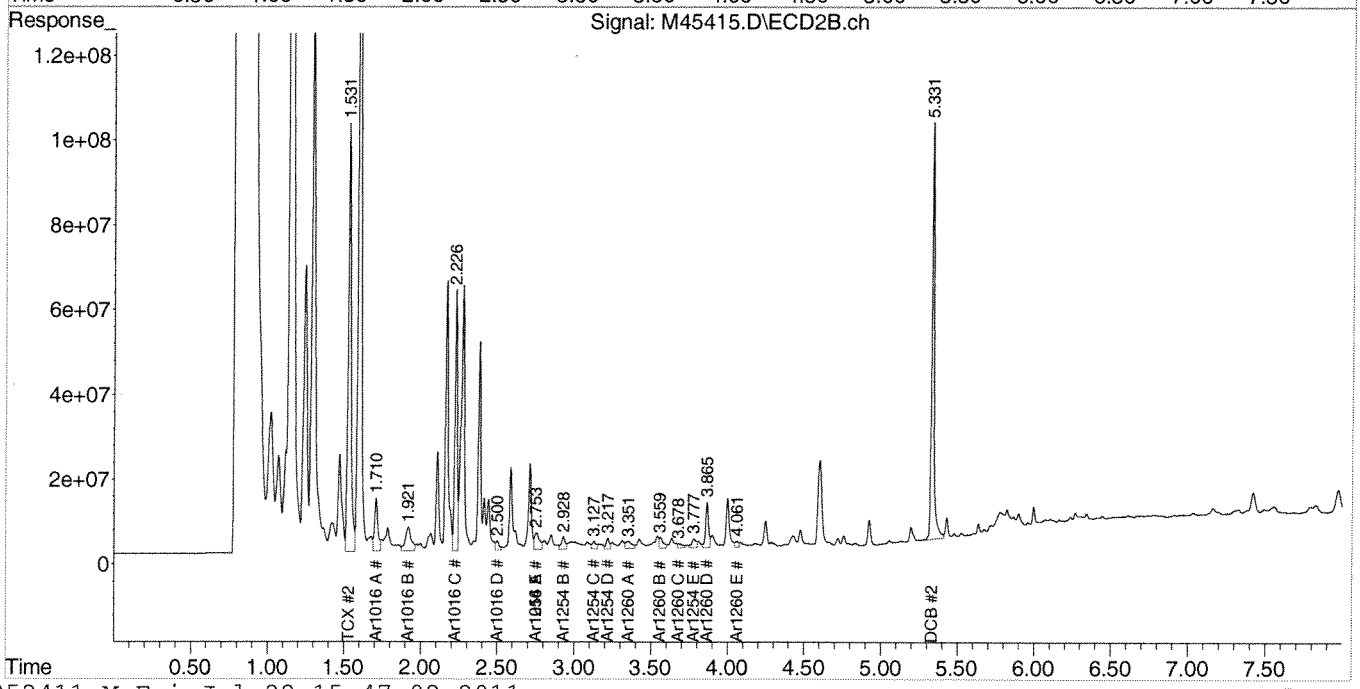
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\072211-M\
Data File : M45415.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2011 12:29 pm
Operator : JK
Sample : 70482-4,,A/C
Misc : SOIL
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 22 14:47:22 2011
Quant Method : C:\msdchem\1\METHODS\PCB052411.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Tue Jul 19 15:55:56 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





analytics environmental laboratory LLC

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603-436-5111 Fax 603-430-2151
800-929-9906

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

July 22, 2011

SAMPLE DATA

Lab Sample ID:	70482-5
Matrix:	Wipe
Percent Solid:	N/A
Dilution Factor:	1.0
Collection Date:	07/14/11
Lab Receipt Date:	07/15/11
Extraction Date:	07/16/11
Analysis Date:	07/22/11

CLIENT SAMPLE ID

Project Name:	USM Gorham PCBs
Project Number:	224164
Field Sample ID:	UH-VWE-063

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	U
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	86	%
Decachlorobiphenyl	56	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

PCB Report

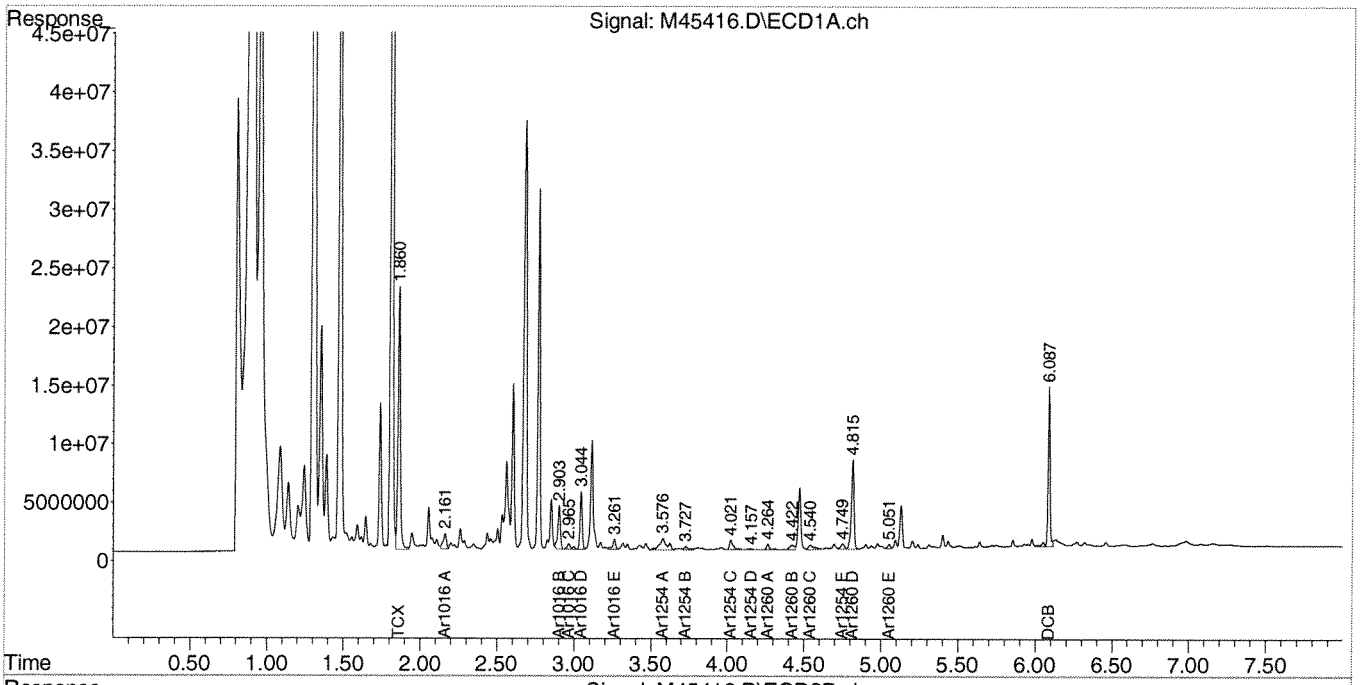
Authorized signature Angelina Richard

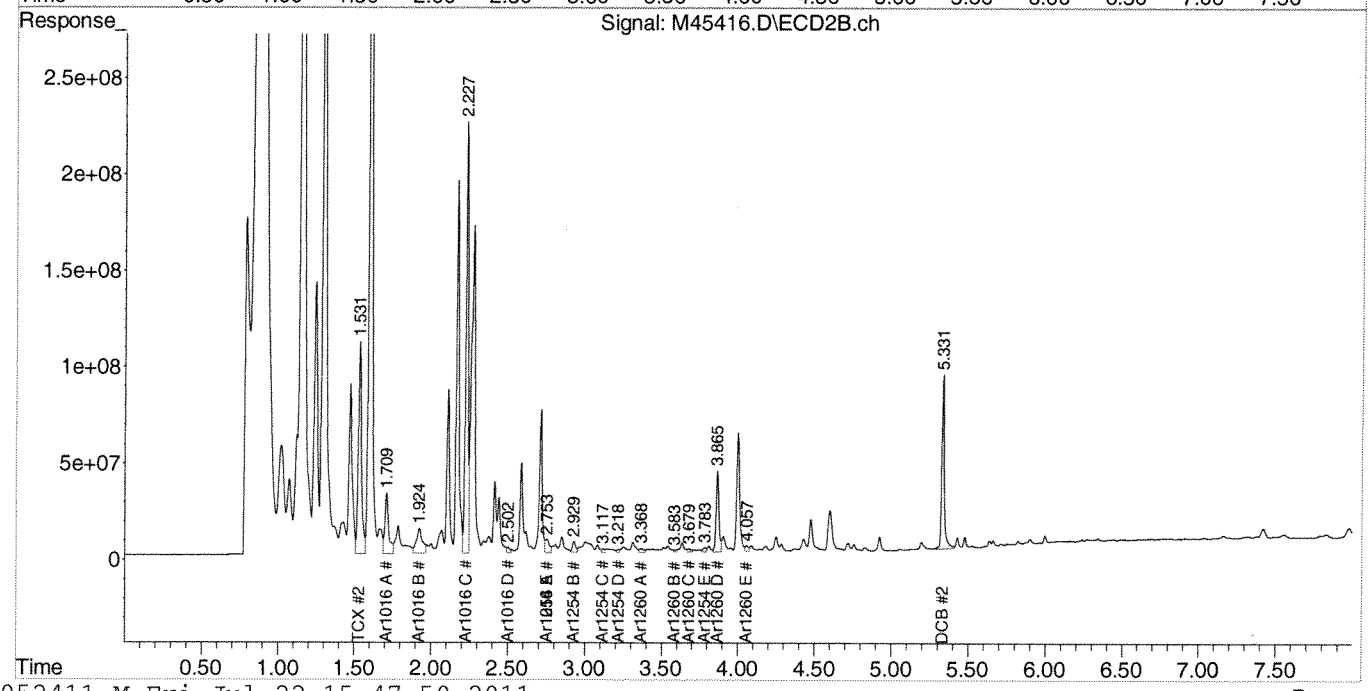
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\072211-M\
Data File : M45416.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Jul 2011 12:39 pm
Operator : JK
Sample : 70482-5,,A/C
Misc : SOIL
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 22 14:47:24 2011
Quant Method : C:\msdchem\1\METHODS\PCB052411.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Tue Jul 19 15:55:56 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





PCB
QC FORMS

AnalyticsLLC:AEL Documents LLC:Pkg Dividers:PCBQC.doc

PCB WIPE
SYSTEM MONITORING COMPOUNDS
SUMMARY

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 70482

	Column #1				Column #2			
SAMPLE ID	SMC 1 (%)	#	SMC 2 (%)	#	SMC 1 (%)	#	SMC 2 (%)	#
B071611PSOX2,,A/C	89		54		80		53	
L071611PSOX2,,A/C	93		53		87		57	
LD071611PSOX2,,A/C	75		52		72		50	
70482-4,,A/C	73		51		63		49	
70482-5,,A/C	86		56		71		45	
70482-1,1:20,,A/C	D		D		D		D	
70482-2,1:5,,A/C	88		77		81		62	
70482-3,1:50,,A/C	D		D		D		D	

		Lower Limit	Upper Limit
SMC #1 =	TCX	40	130
SMC #2 =	DCB	40	130

\# Column to be used to flag recovery values outside of QC limits
* Values outside QC limits
D System Monitoring Compound diluted out

PCB SOIL
LABORATORY CONTROL SAMPLE/DUPLICATE
PERCENT RECOVERY

Instrument ID: M

GC Column #1: STX-CLPesticides I

Column ID: 0.25 mm

GC Column #2: STX-CLPesticides II

Column ID: 0.25 mm

SDG: 70482

Non-spiked sample: B071611PSOX2,,A/C

Spike: L071611PSOX2,,A/C

Spike duplicate: LD071611PSOX2,,A/C

COMPOUND	LCS SPIKE ADDED (ug/kg)	LCSD SPIKE ADDED (ug/kg)	LOWER LIMIT	UPPER LIMIT	RPD LIMIT	NON-SPIKE RESULT (ug/kg)	SPIKE RESULT (ug/kg)	SPIKE % REC	#	SPIKE DUP RESULT (ug/kg)	SPIKE DUP % REC	#	RPD	#
PCB 1016	200	200	65	140	30	0	228	114		180	90		23.6	
PCB 1260	200	200	60	130	30	0	239	120		202	101		17.2	
PCB 1016 #2	200	200	65	140	30	0	196	98		221	111		12.3	
PCB 1260 #2	200	200	60	130	30	0	190	95		209	105		9.6	

Column to be used to flag recovery and RPD values outside of QC limits

* Values outside QC limits

LCS/LCSD spike added values have been weight adjusted.

Non-spike result of "0" used in place of "U" to allow calculation of spike recovery.

Comments: _____

_____

CHAIN OF CUSTODIES

Chain Of Custody Form

analytics environmental laboratory LLC
195 Commerce Way, Suite E
Portsmouth, NH 03801
(800) 929-9906
(603) 436-5111
(603) 430-2151 Fax

For Analytics Use Only

Samples were:
1) Shipped ~~or hand-delivered~~
2) Temperature (°C): 26°C not on ice
3) Received in good condition: (Y) or N
4) pH checked by: N/A
5) Labels checked by: JB 7/15/11

Project#: 224164 Proj. Name: USM Gorham PCBs
Company: Woodard + Curran
Report to: Amy Wallace, Scott Luczko
Address: 41 Hutchins Dr.
Portland, ME 04102
Phone: 207-774-2112
Quote #:
PO# (if required):

Circle and/or Write Required Analysis

Matrix Key:
C = Concrete, WP = Wipe, WW = Wastewater, SW = Surface Water, E = Extract, GW = Groundwater, DW = Drinking Water, S = Soil / Sludge, O = Oil, X = Other

Station Identification	Sample Date	Sample Time	Preservation: Unpres	4° C	HNO_3	H_2SO_4	HCl	Methanol	Other: Hexane	Field Filtered? Y or N	VOC: 8260 524.2 624	SVOC: 8270 625 PAH only SIM	Pesticides: 8081 608	PCB: 8082 608 Soxhlet? Y or N	TPH: 8015DRO 8015GRO 8100M	EPH: Full (includes targets) Ranges only	VPH: Full (includes targets) Ranges only	Metals: RCRA8 PP13 TAL23 Other*	Matrix	No. of Containers	pH checked	Analytics Sample #
UH-VWM-059	7/11/11	1110		X					X					X					WP	1		70482-1
UH-VWM-060	7/12/11	0945		X					X					X					WP	1		-2
UH-VWM-061	7/12/11	0950		X					X					X					WP	1		-3
UH-VWE-062	7/13/11	1100		X					X					X					WP	1		-4
UH-VWE-063	7/14/11	1325		X					X					X					WP	1		-5

Email Results to:
sluczko@woodardcurran.com
awallace@woodardcurran.com

Comments, Additional Analyses, or Special Instructions: * List requested metals here

PCBs USEPA Method 8082 via Soxhlet ext.

Turnaround Time (TAT)
- [ ] 24 Hours*
- [ ] 48 Hours*
- [ ] 72 Hours*
- [x] 5 Days*
- [ ] 10 Days

*Fee may apply; lab approval required

Project Requirements:
*Fee may apply

Report Type: Level II as per client specs
- [ ] MCP*
- [ ] CTRCP*
- [ ] DOD*
- [x] Level II*
- [ ] Level III*
- [ ] Level IV*
- [x] Standard

State:
- [ ] NH
- [ ] MA
- [x] ME
- [ ] CT
- [ ] RI
- Other:

State Standard: (eg. S-1 or GW-1)

EDD Required: Y* N

Type: PDF

Sampler Name (Print): Scott Luczko

Relinquished By Sampler:	Date: 7/15/11	Time: 0600	Received By:	
Relinquished By:	Date: 7/15/11	Time: 1250	Received By:	
Relinquished By:	Date:	Time:	Received By:	JB 7/15/11

ANALYTICS SAMPLE RECEIPT CHECKLIST

analytics environmental laboratory LLC

AEL LAB#: 70482

CLIENT: Woodard & Curran

PROJECT: USM Gorham PCB

COOLER NUMBER: Client Cooler

NUMBER OF COOLERS: 1

DATE RECEIVED: 7·15·11

A: PRELIMINARY EXAMINATION:

DATE COOLER OPENED: 7·15·11

1. Cooler received by(initials): MJG

Date Received: 7·15·11

2. Circle one: Hand delivered (If so, skip 3) Shipped

3. Did cooler come with a shipping slip? Y N

3a. Enter carrier name and airbill number here: _____

4. Were custody seals on the outside of cooler? Y N
How many & where: _____ Seal Date: _____ Seal Name: _____

5. Did the custody seals arrive unbroken and intact upon arrival? Y NA

6. COC#: _____

7. Were Custody papers filled out properly (ink,signed, etc)? Y N

8. Were custody papers sealed in a plastic bag? Y N

9. Did you sign the COC in the appropriate place? Y N

10. Was the project identifiable from the COC papers? Y N

11. Was enough ice used to chill the cooler? Y N Temp. of cooler: 26°C no ice

B. Log-In: Date samples were logged in: 7·15·11 By: MJG

12. Type of packing in cooler(bubble wrap, popcorn) Y N

13. Were all bottles sealed in separate plastic bags? Y N

14. Did all bottles arrive unbroken and were labels in good condition? Y N

15. Were all bottle labels complete(ID,Date,time,etc.) Y N

16. Did all bottle labels agree with custody papers? Y N

17. Were the correct containers used for the tests indicated: Y N

18. Were samples received at the correct pH? Y NA

19. Was sufficient amount of sample sent for the tests indicated? Y N

20. Were all samples submitted within holding time? Y N

21. Were bubbles absent in VOA samples? Y NA

If NO, List Sample ID's and Lab #s: _____

22. Laboratory labeling verified by (initials): JBB Date: 7/15/11

From: "Scott Luczko" <sluczko@woodardcurran.com>
Subject: **PCB Wipes**
Date: July 15, 2011 1:04:17 PM EDT
To: "Sarah Caron" <scaron@analyticslab.com>

Sarah,

Please run the samples my wife just dropped off. Nothing I could do to keep them colder longer, since she couldn't make it earlier.

I cannot re-sample since the locations are no longer available.

Thanks,

Scott

Sent from my Samsung Moment™ only on the Now Network™

analytics environmental laboratory LLC

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800-929-9906
www.analyticslab.com

July 29, 2011

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

RE: Analytical Results Case Narrative
Analytics # 70559
USM Gorham Proj# 224164

Dear Ms. Wallace;

Enclosed please find the analytical results for samples submitted for the above-mentioned project. The attached Cover Page lists the sample IDs, Lab tracking numbers and collection dates for the samples included in this deliverable.

Samples were analyzed for Polychlorinated Biphenyls (PCBs) by EPA Method 8082.

Unless otherwise noted in the Non-conformance Summary listed below, all of the quality control (QC) criteria including initial calibration, calibration verification, surrogate recovery, holding time and method accuracy/precision for these analyses were within acceptable limits.

This Level II data package has been assembled in the following order:

Case Narrative/Non-Conformance Summary
Sample Log Sheet - Cover Page
PCB Form 1 Data Sheet for Samples and Blanks
Chromatograms
PCB Form 10 Confirmation Results
PCB Form 3 MS/MSD (LCS) Recoveries
Chain of Custody (COC) Forms

QC NON-CONFORMANCE SUMMARY

Sample Receipt:
No QC exceptions.

PCBs by EPA Method 8082:
No results were reported below the quantitation limit.

Samples 70559-1 thru 70559-4 required dilution due to concentrations of PCBs that exceeded the calibration range of the instrument.

The closing continuing calibration standard (file#M455804) had low recovery for PCB 1260 and Decachlorobiphenyl on column#2. The standard was reanalyzed (file#M455806) with all analytes in control except Tetrachloro-m-xylene that high recovery (118%) on column#1. Results were reported without qualification.

If you have any questions on these results, please do not hesitate to contact me.

Sincerely,
ANALYTICS Environmental Laboratory, LLC

Stephen L. Knollmeyer
Laboratory Director

analytics environmental laboratory LLC

195 Commerce Way Suite E
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906
www.analyticslab.com

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

Report Number: 70559

Revision: Rev. 0

Re: USM Gorham (Project No: 224164)

Enclosed are the results of the analyses on your sample(s). Samples were received on 22 July 2011 and analyzed for the tests listed. Samples were received in acceptable condition, with the exceptions noted below or on the chain of custody. These results pertain to samples as received by the laboratory and for the analytical tests requested on the chain of custody. The results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. Please see individual reports for specific methodologies and references.

Lab Number	Sample Date	Station Location	Analysis	Comments
70559-1	07/21/11	UH-VBB-077	EPA 8082 (PCBs only)	
70559-2	07/21/11	UH-VBB-078	EPA 8082 (PCBs only)	
70559-3	07/21/11	UH-VBB-079	EPA 8082 (PCBs only)	
70559-4	07/21/11	UH-VBB-080	EPA 8082 (PCBs only)	
70559-5	07/21/11	UH-VBB-081	EPA 8082 (PCBs only)	
70559-6	07/21/11	UH-VBC-082	EPA 8082 (PCBs only)	

Sample Receipt Exceptions: None

Analytics Environmental Laboratory is certified by the states of New Hampshire, Maine, Massachusetts, Connecticut, Rhode Island, Virginia, Maryland, and North Carolina, and is accredited by the Deparment of Defense (DOD) ELAP program. A list of actual certified parameters is available upon request.

If you have any questions on these results, please do not hesitate to contact us.

Authorized signature _____
Stephen L. Knollmeyer Lab. Director

Date 8/1/2011

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analytics environmental laboratory LLC

Surrogate Compound Limits

Matrix:	Aqueous	Solid	
Units:	% Recovery	% Recovery	Method
Volatile Organic Compounds - Drinking Water			
1,4-Difluorobenzene	70-130		EPA 524.2
Bromofluorobenzene	70-130		
1,2-Dichlorobenzene-d4	70-130		
Volatile Organic Compounds			
1,2-Dichloroethane-d4	70-120	70-120	EPA 624/8260B
Toluene-d8	85-120	85-120	
Bromofluorobenzene	75-120	75-120	
Semi-Volatile Organic Compounds			
2-Fluorophenol	20-110	35-105	EPA 625/8270C
d5-Phenol	15-110	40-100	
d5-nitrobenzene	40-110	35-100	
2-Fluorobiphenyl	50-110	45-105	
2,4,6-Tribromophenol	40-110	40-125	
d14-p-terphenyl	50-130	30-125	
PAH's by SIM			
d5-nitrobenzene	21-110	35-110	EPA 8270C
2-Fluorobiphenyl	36-121	45-105	
d14-p-terphenyl	33-141	30-125	
Pesticides and PCBs			
2,4,5,6-Tetrachloro-m-xylene (TCX)	46-122	40-130	EPA 608/8082
Decachlorobiphenyl (DCB)	40-135	40-130	
Herbicides			
Dichloroacetic acid (DCAA)	30-150	30-150	
Gasoline Range Organics/TPH Gasoline			
Trifluorotoluene TFT (FID)	60-140	60-140	MEDEP 4217/EPA 8015
Bromofluorobenzene (BFB) (FID)	60-140	60-140	
Trifluorotoluene TFT (PID)	60-140	60-140	
Bromofluorobenzene (BFB) (PID)	60-140	60-140	
Diesel Range Organics/TPH Diesel			
m-terphenyl	60-140	60-140	MEDEP 4125/EPA 8015/CT ETPH
Volatile Petroleum Hydrocarbons			
2,5-Dibromotoluene (PID)	70-130	70-130	MADEP VPH May 2004 Rev1.1
2,5-Dibromotoluene (FID)	70-130	70-130	
Extracatable Petroleum Hydrocarbons			
1-chloro-octadecane (aliphatic)	40-140	40-140	MADEP EPH May 2004 Rev1.1
o-Terphenyl (aromatic)	40-140	40-140	
2-Fluorobiphenyl (Fractionation)	40-140	40-140	
2-Bromonaphthalene (fractionation)	40-140	40-140	

PCB
DATA SUMMARIES

analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

July 29, 2011

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: USM Gorham

Project Number: 224164

Field Sample ID: Lab QC

Lab Sample ID: B072211PSOX2
Matrix: Soil
Percent Solid: 100
Dilution Factor: 1.0
Collection Date:
Lab Receipt Date:
Extraction Date: 07/22/11
Analysis Date: 07/28/11

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	33	U
PCB-1221	33	U
PCB-1232	33	U
PCB-1242	33	U
PCB-1248	33	U
PCB-1254	33	U
PCB-1260	33	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	81	%
Decachlorobiphenyl	52	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

COMMENTS: Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Results are expressed on a dry weight basis.

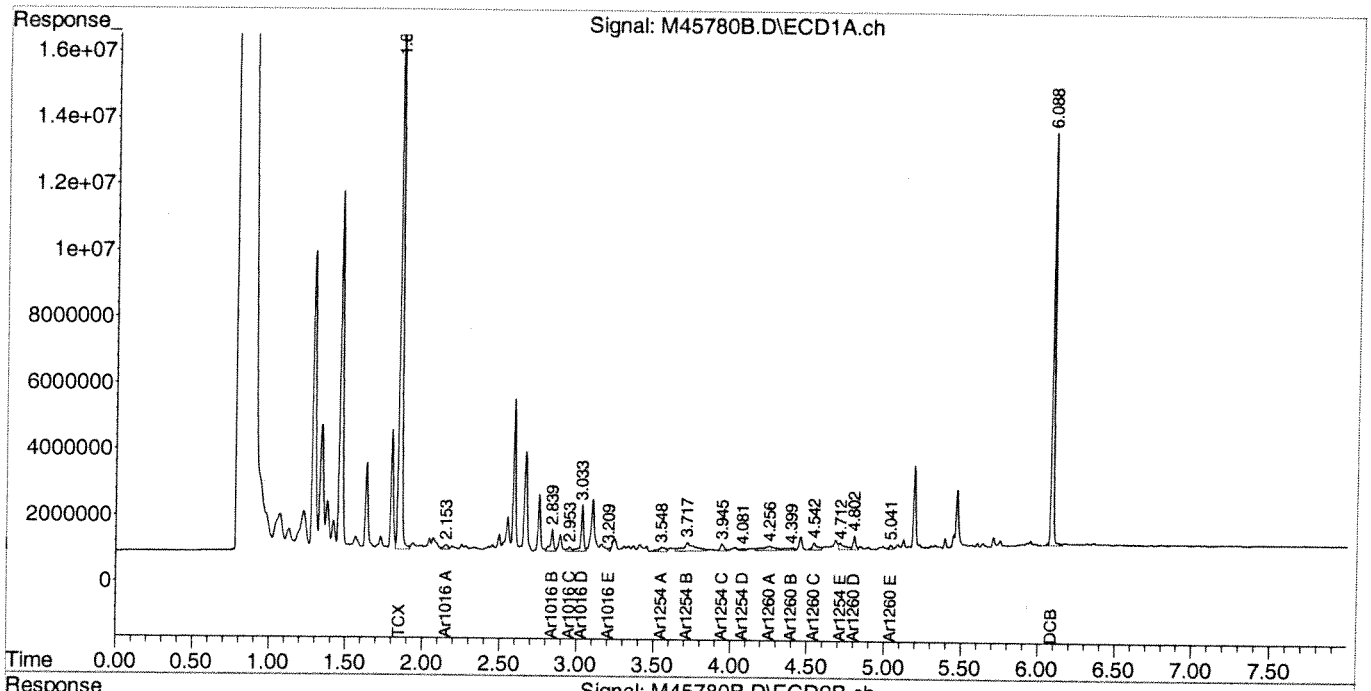
PCB Report

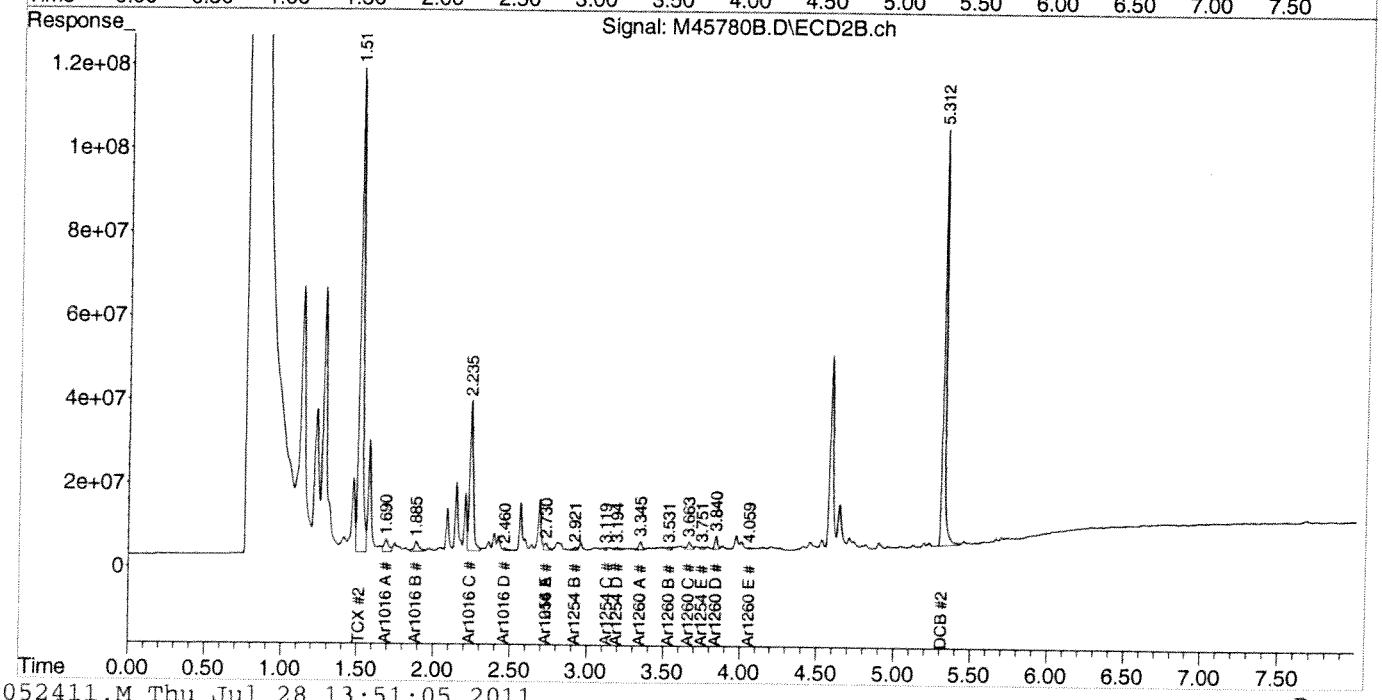
Authorized signature

Data Path : C:\msdchem\1\DATA\072811-M\
Data File : M45780B.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Jul 2011 11:01 am
Operator : JK
Sample : B072211PSOX2,,A/C
Misc : SOIL
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 28 13:51:04 2011
Quant Method : C:\msdchem\1\METHODS\PCB052411.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Jul 27 09:51:35 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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July 29, 2011

SAMPLE DATA

Lab Sample ID: B072211PSOX2 RR
Matrix: Soil
Percent Solid: 100
Dilution Factor: 1.0
Collection Date:
Lab Receipt Date:
Extraction Date: 07/22/11
Analysis Date: 07/28/11

CLIENT SAMPLE ID

Project Name: USM Gorham
Project Number: 224164
Field Sample ID: Lab QC

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	33	U
PCB-1221	33	U
PCB-1232	33	U
PCB-1242	33	U
PCB-1248	33	U
PCB-1254	33	U
PCB-1260	33	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	84	%
Decachlorobiphenyl	54	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

COMMENTS: Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Results are expressed on a dry weight basis.

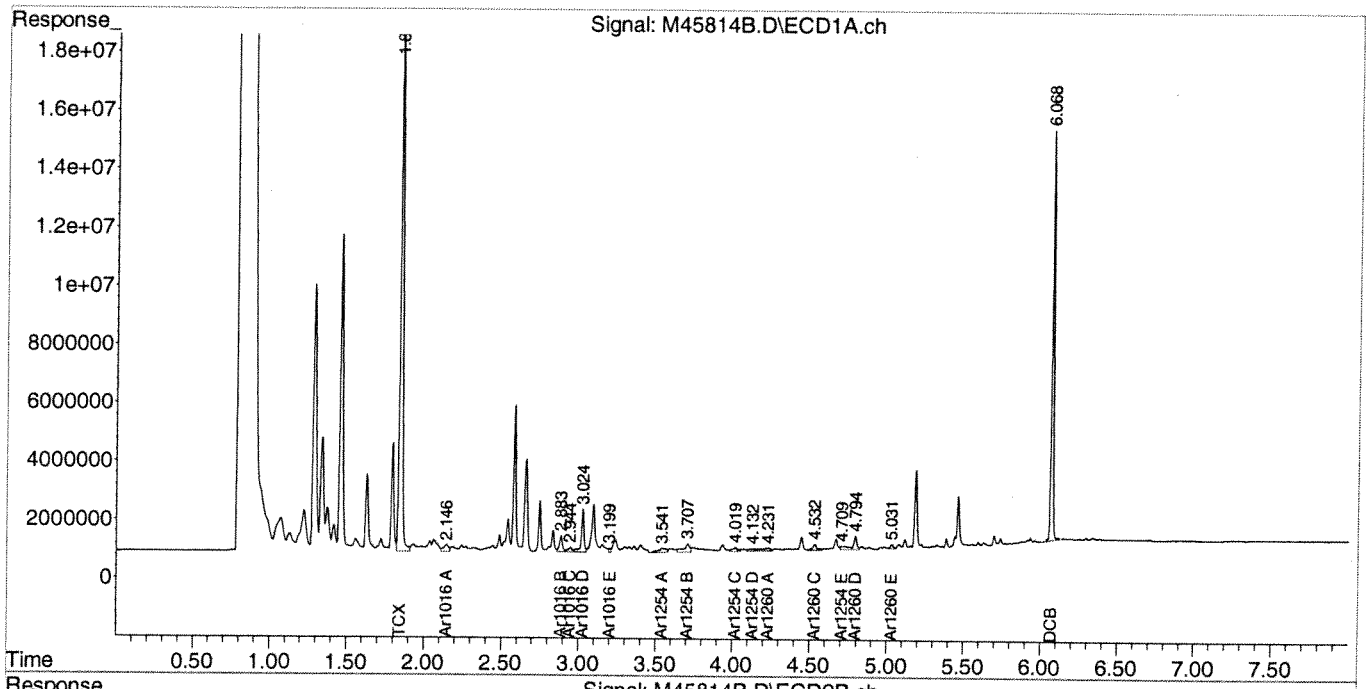
PCB Report

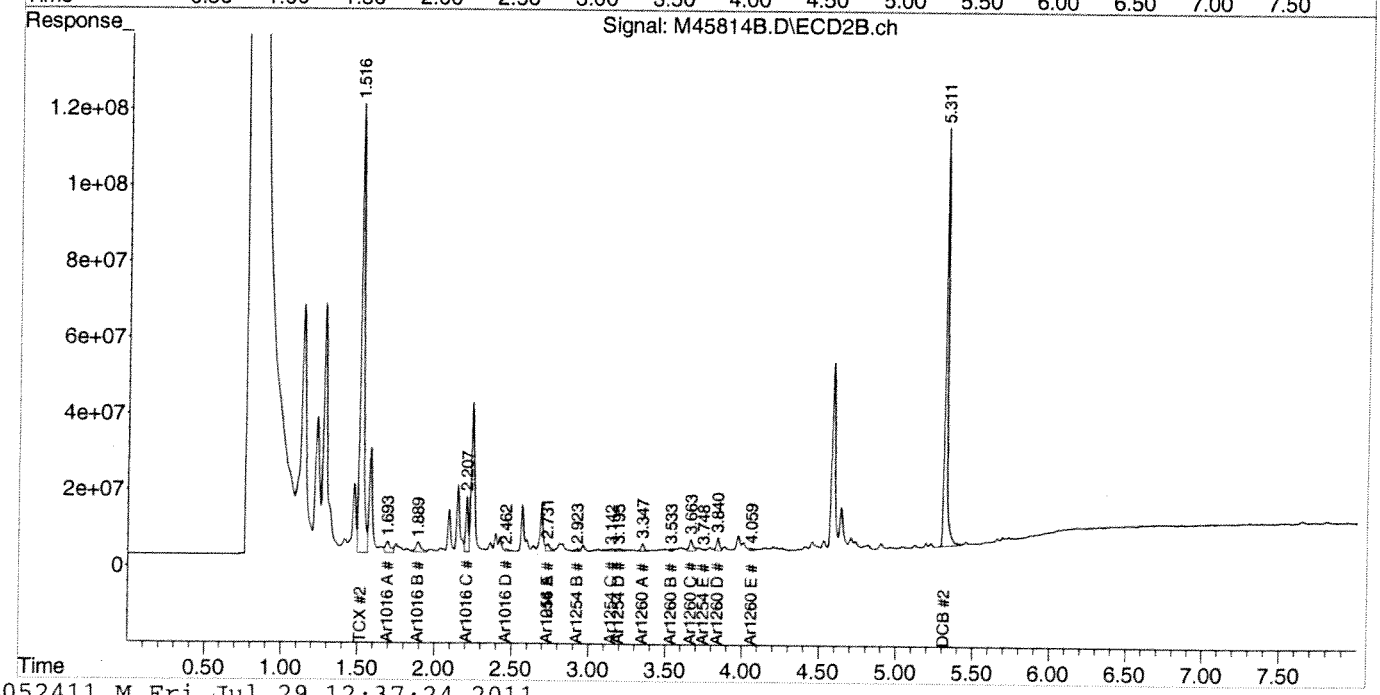
Authorized signature Jenna Lewis

Data Path : C:\msdchem\1\DATA\072811-M\
Data File : M45814B.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Jul 2011 6:42 pm
Operator : JK
Sample : B072211PSOX2,RR,,A/C
Misc : SOIL
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 29 12:36:39 2011
Quant Method : C:\msdchem\1\METHODS\PCB052411.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Fri Jul 29 00:06:09 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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July 29, 2011

SAMPLE DATA

Lab Sample ID: 70559-1
Matrix: Solid
Percent Solid: 100
Dilution Factor: 10
Collection Date: 07/21/11
Lab Receipt Date: 07/22/11
Extraction Date: 07/22/11
Analysis Date: 07/28/11

CLIENT SAMPLE ID

Project Name: USM Gorham
Project Number: 224164
Field Sample ID: UH-VBB-077

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	330	U
PCB-1221	330	U
PCB-1232	330	U
PCB-1242	330	U
PCB-1248	330	U
PCB-1254	330	**4180**
PCB-1260	330	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	100	%
Decachlorobiphenyl	60	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

COMMENTS: Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Results are expressed on a dry weight basis.

PCB Report

Authorized signature Jenna Jenny

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 70559
Sample: 70559-1,1:10,,A/C
Data File: M45815.D
Dilution Factor: 9.7

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/kg)	SAMPLE RESULT (ug/kg)	RPD	#
PCB 1254	4007	4176	4.1	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

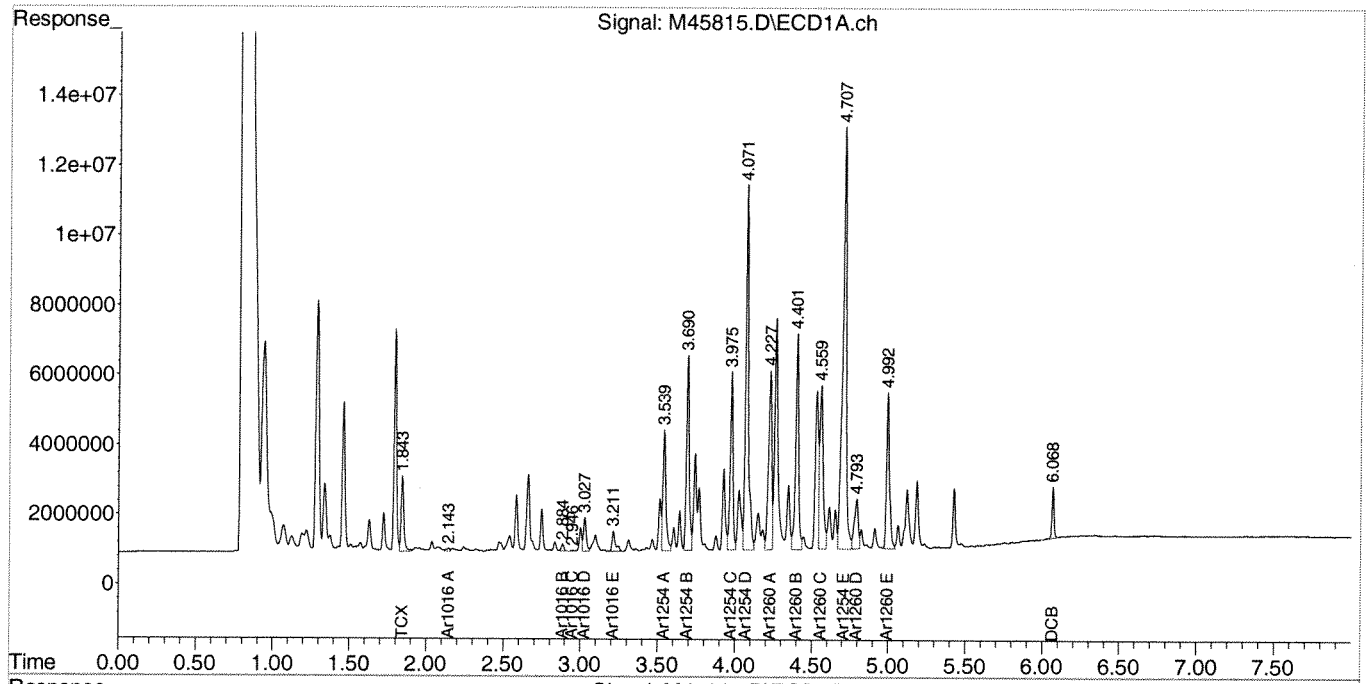
Comments: _____

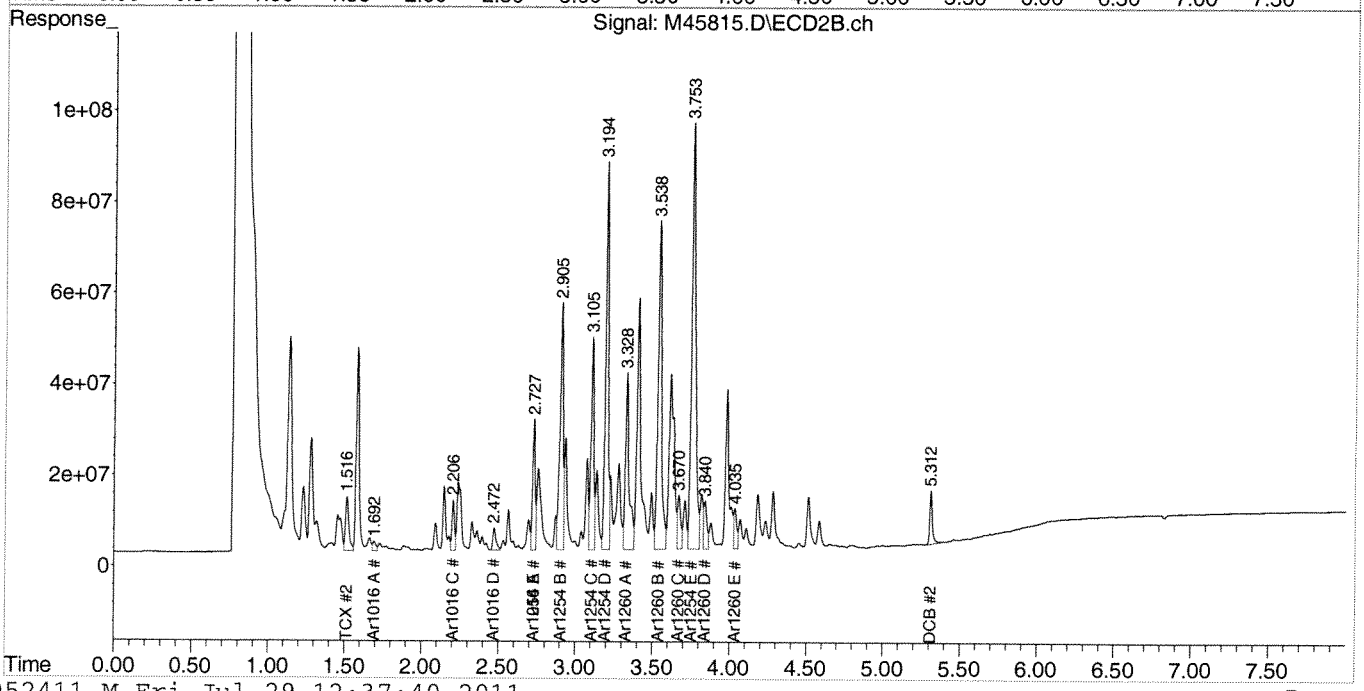
PCB FORM 10

Data Path : C:\msdchem\1\DATA\072811-M\
Data File : M45815.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Jul 2011 6:52 pm
Operator : JK
Sample : 70559-1,1:10,,A/C
Misc : SOIL
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 29 12:36:41 2011
Quant Method : C:\msdchem\1\METHODS\PCB052411.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Jul 27 09:51:36 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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July 29, 2011

SAMPLE DATA

Lab Sample ID:	70559-2
Matrix:	Solid
Percent Solid:	100
Dilution Factor:	20
Collection Date:	07/21/11
Lab Receipt Date:	07/22/11
Extraction Date:	07/22/11
Analysis Date:	07/28/11

CLIENT SAMPLE ID

Project Name:	USM Gorham
Project Number:	224164
Field Sample ID:	UH-VBB-078

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	660	U
PCB-1221	660	U
PCB-1232	660	U
PCB-1242	660	U
PCB-1248	660	U
PCB-1254	660	**8560**
PCB-1260	660	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	*	%
Decachlorobiphenyl	*	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS: Results are expressed on a dry weight basis.
* The surrogates were diluted out.

PCB Report

Authorized signature Jennifer Lewis

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 70559
Sample: 70559-2,1:20,,A/C
Data File: M45816.D
Dilution Factor: 19.9

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/kg)	SAMPLE RESULT (ug/kg)	RPD	#
PCB 1254	7885	8560	8.2	

Column to be used to flag RPD values greater than QC limit of 40%
* Values outside QC limits

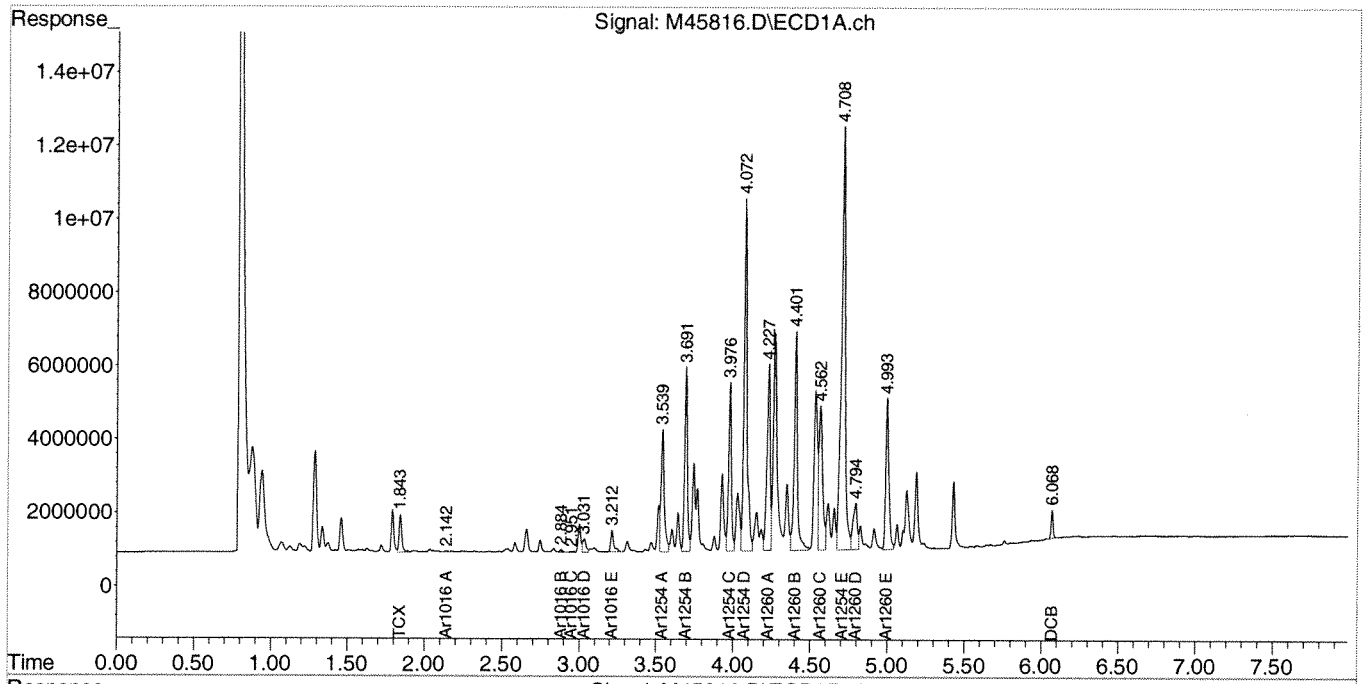
Comments: _____

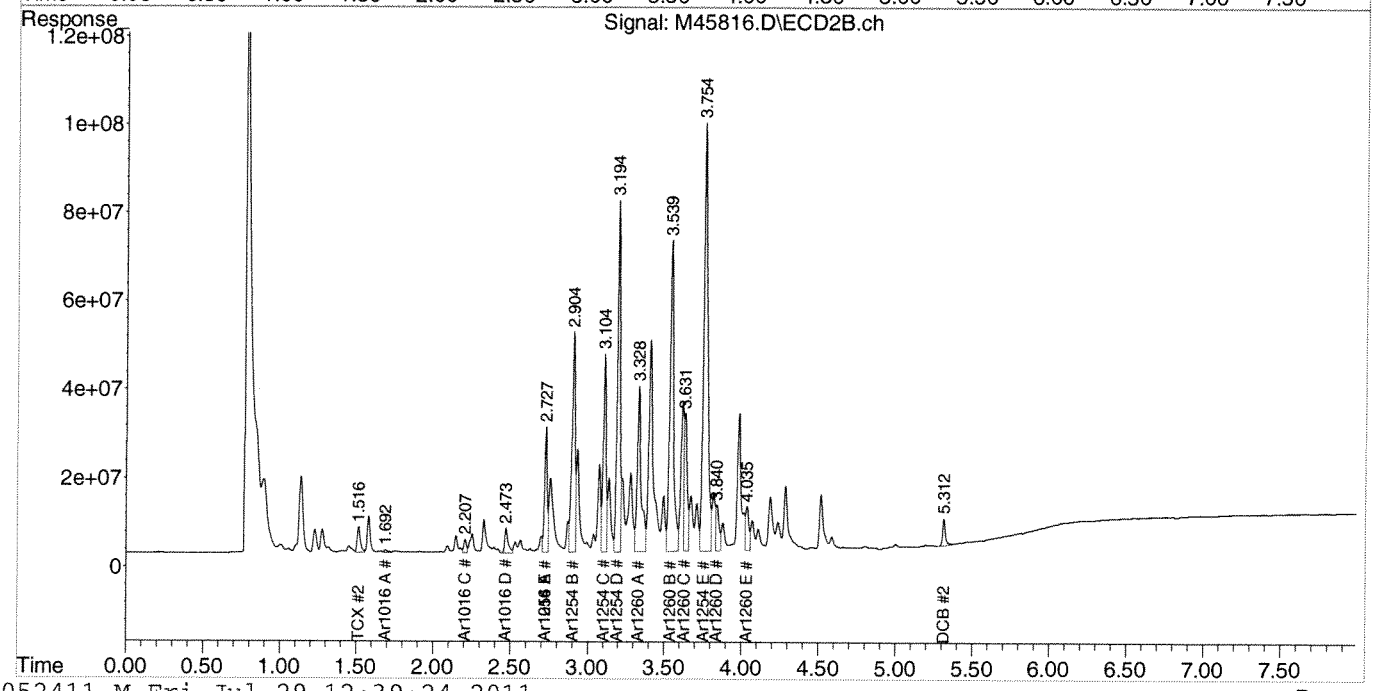
PCB FORM 10

Data Path : C:\msdchem\1\DATA\072811-M\
Data File : M45816.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Jul 2011 7:02 pm
Operator : JK
Sample : 70559-2,1:20,,A/C
Misc : SOIL
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 29 12:39:11 2011
Quant Method : C:\msdchem\1\METHODS\PCB052411.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Jul 27 09:51:36 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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July 29, 2011

SAMPLE DATA

Lab Sample ID: 70559-3
Matrix: Solid
Percent Solid: 100
Dilution Factor: 9
Collection Date: 07/21/11
Lab Receipt Date: 07/22/11
Extraction Date: 07/22/11
Analysis Date: 07/28/11

CLIENT SAMPLE ID

Project Name: USM Gorham
Project Number: 224164
Field Sample ID: UH-VBB-079

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	297	U
PCB-1221	297	U
PCB-1232	297	U
PCB-1242	297	U
PCB-1248	297	U
PCB-1254	297	**4760**
PCB-1260	297	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	92	%
Decachlorobiphenyl	62	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

COMMENTS: Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Results are expressed on a dry weight basis.

PCB Report

Authorized signature Jenna Lewis

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 70559
Sample: 70559-3,1:10,,A/C
Data File: M45817.D
Dilution Factor: 9.1

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/kg)	SAMPLE RESULT (ug/kg)	RPD	#
PCB 1254	4440	4756	6.9	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

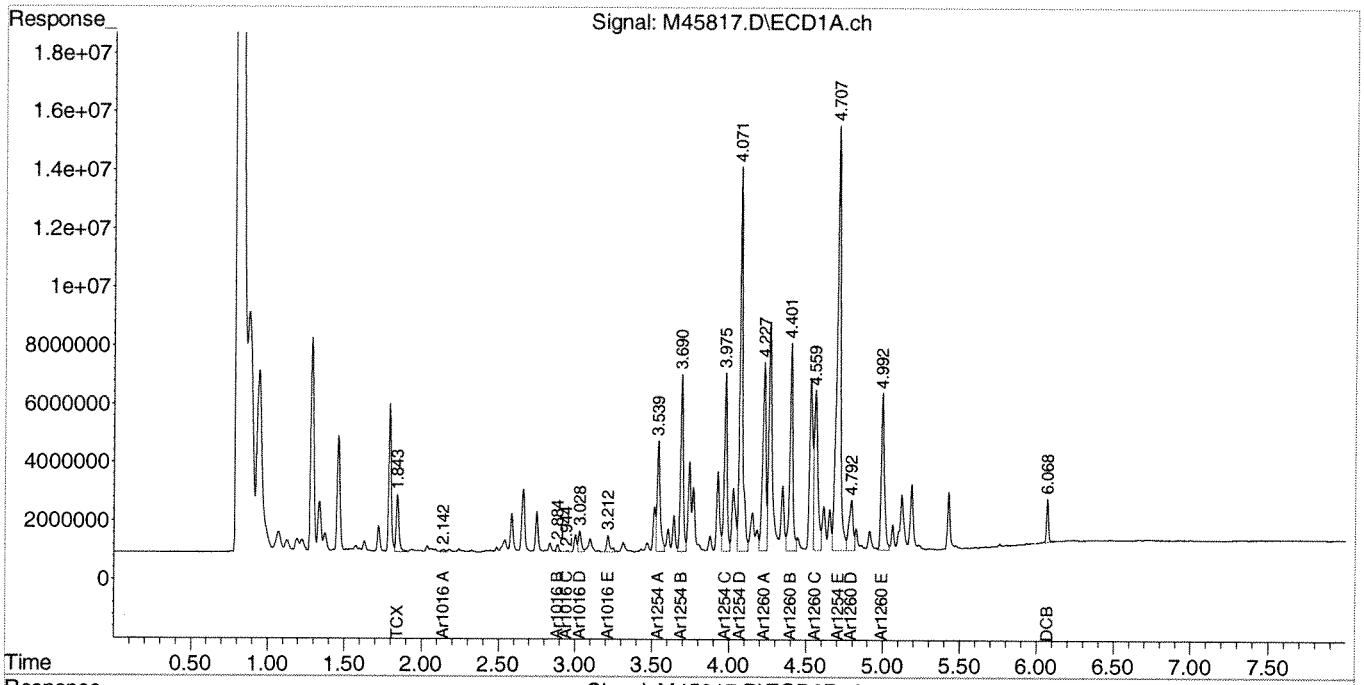
Comments: _____

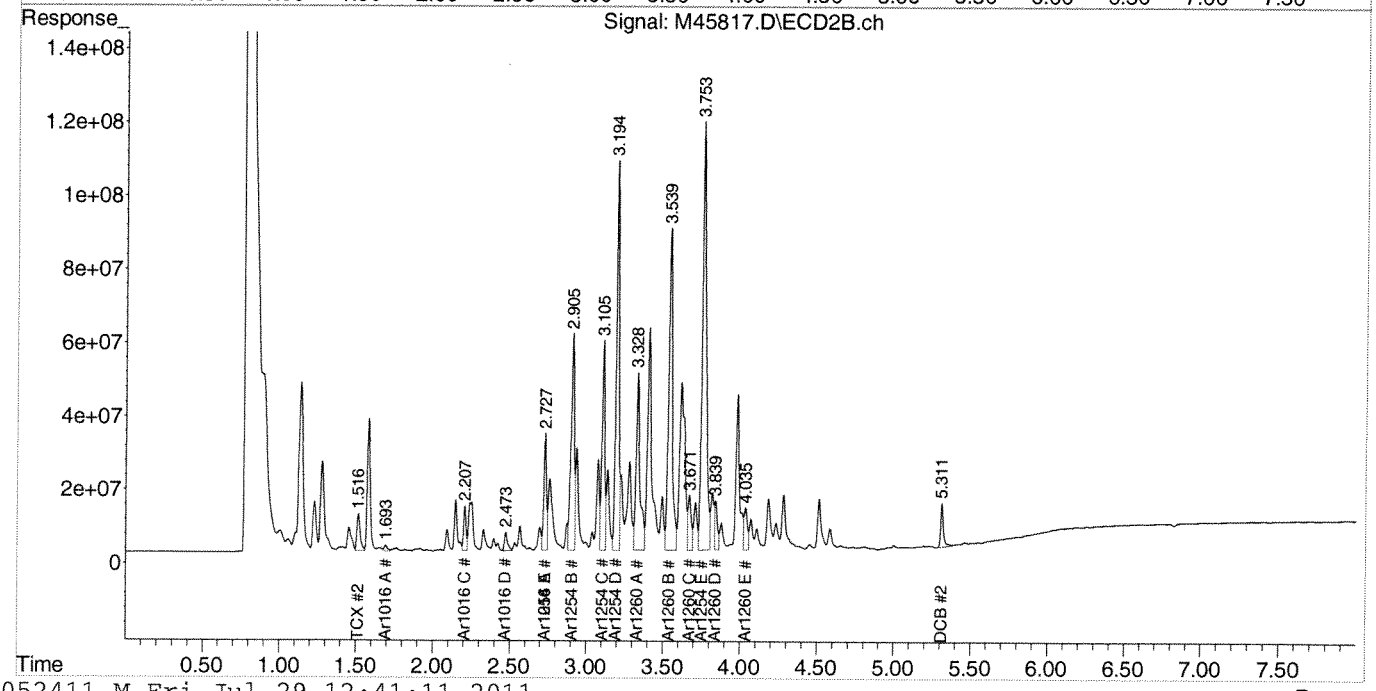
PCB FORM 10

Data Path : C:\msdchem\1\DATA\072811-M\
Data File : M45817.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Jul 2011 7:12 pm
Operator : JK
Sample : 70559-3,1:10,,A/C
Misc : SOIL
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 29 12:40:54 2011
Quant Method : C:\msdchem\1\METHODS\PCB052411.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Jul 27 09:51:36 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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July 29, 2011

SAMPLE DATA

Lab Sample ID: 70559-4
Matrix: Solid
Percent Solid: 100
Dilution Factor: 10
Collection Date: 07/21/11
Lab Receipt Date: 07/22/11
Extraction Date: 07/22/11
Analysis Date: 07/28/11

CLIENT SAMPLE ID

Project Name: USM Gorham
Project Number: 224164
Field Sample ID: UH-VBB-080

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	330	U
PCB-1221	330	U
PCB-1232	330	U
PCB-1242	330	U
PCB-1248	330	U
PCB-1254	330	**4850**
PCB-1260	330	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	96	%
Decachlorobiphenyl	61	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

COMMENTS: Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 70559
Sample: 70559-4,1:10,,A/C
Data File: M45818.D
Dilution Factor: 9.9

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/kg)	SAMPLE RESULT (ug/kg)	RPD	#
PCB 1254	4650	4853	4.3	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

Comments: _____

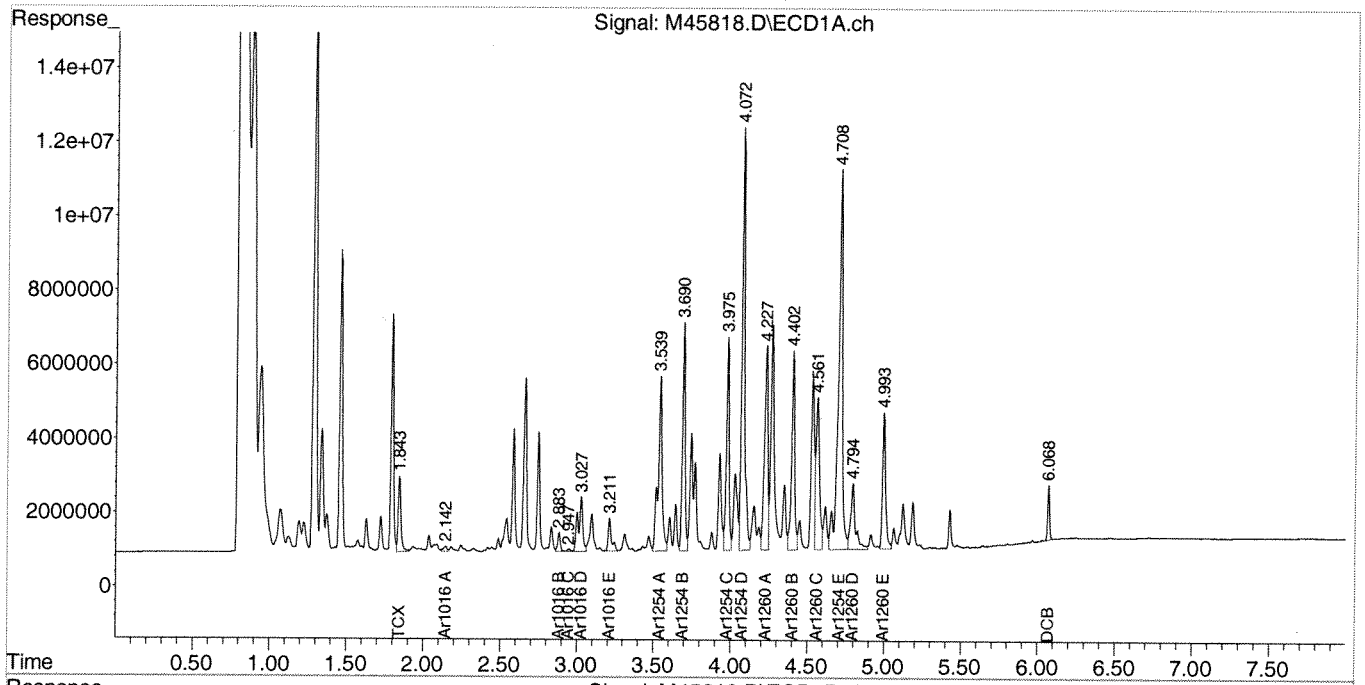
PCB FORM 10

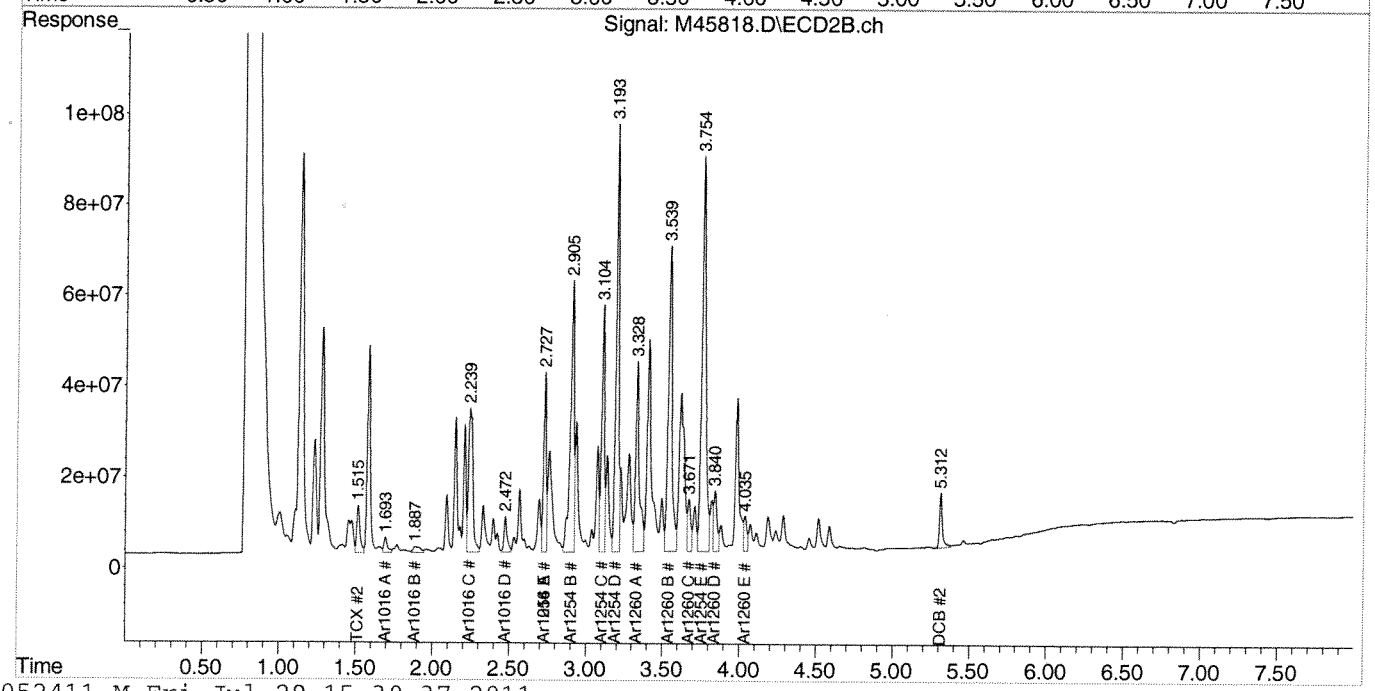
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\072811-M\
Data File : M45818.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Jul 2011 7:22 pm
Operator : JK
Sample : 70559-4,1:10,,A/C
Misc : SOIL
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 29 12:36:47 2011
Quant Method : C:\msdchem\1\METHODS\PCB052411.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Jul 27 09:51:36 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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July 29, 2011

SAMPLE DATA

Lab Sample ID: 70559-5
Matrix: Solid
Percent Solid: 100
Dilution Factor: 1.0
Collection Date: 07/21/11
Lab Receipt Date: 07/22/11
Extraction Date: 07/22/11
Analysis Date: 07/28/11

CLIENT SAMPLE ID

Project Name: USM Gorham
Project Number: 224164
Field Sample ID: UH-VBB-081

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	33	U
PCB-1221	33	U
PCB-1232	33	U
PCB-1242	33	U
PCB-1248	33	U
PCB-1254	33	**671**
PCB-1260	33	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	97	%
Decachlorobiphenyl	57	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

COMMENTS: Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 70559
Sample: 70559-5,,A/C
Data File: M45787.D
Dilution Factor: 1.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/kg)	SAMPLE RESULT (ug/kg)	RPD	#
PCB 1254	671	655	2.5	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

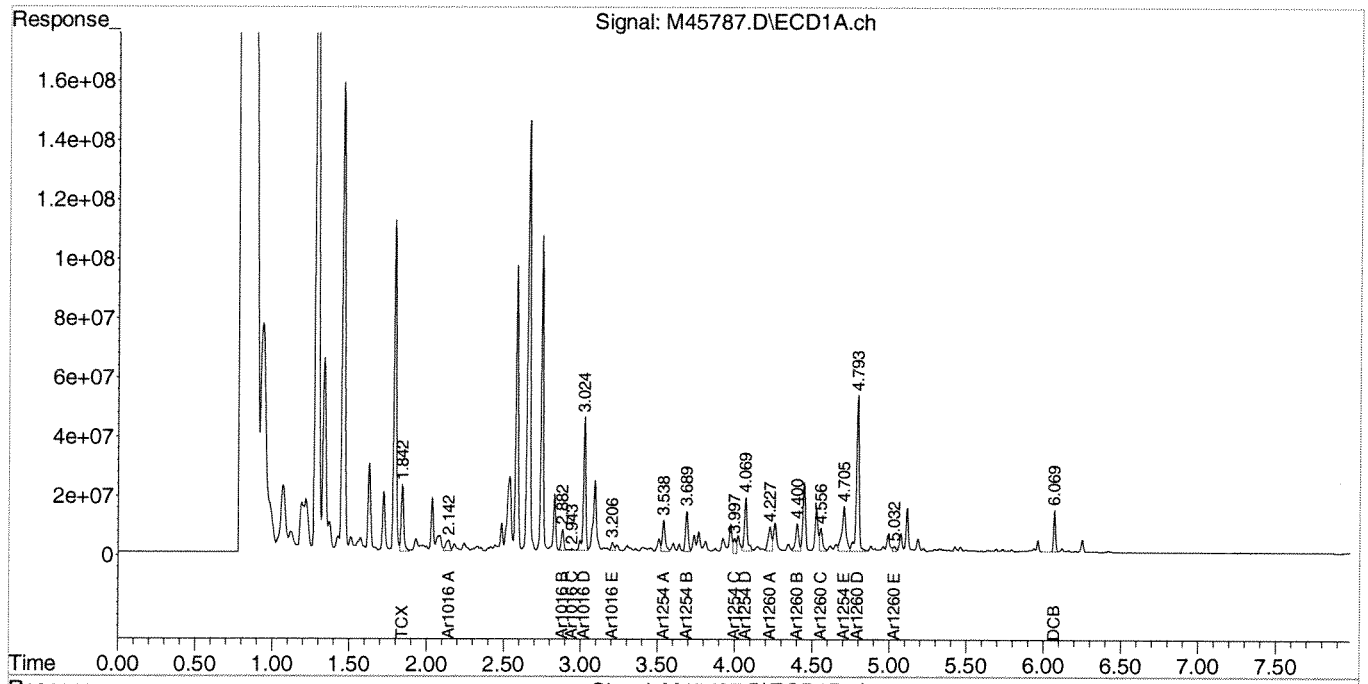
Comments: _____

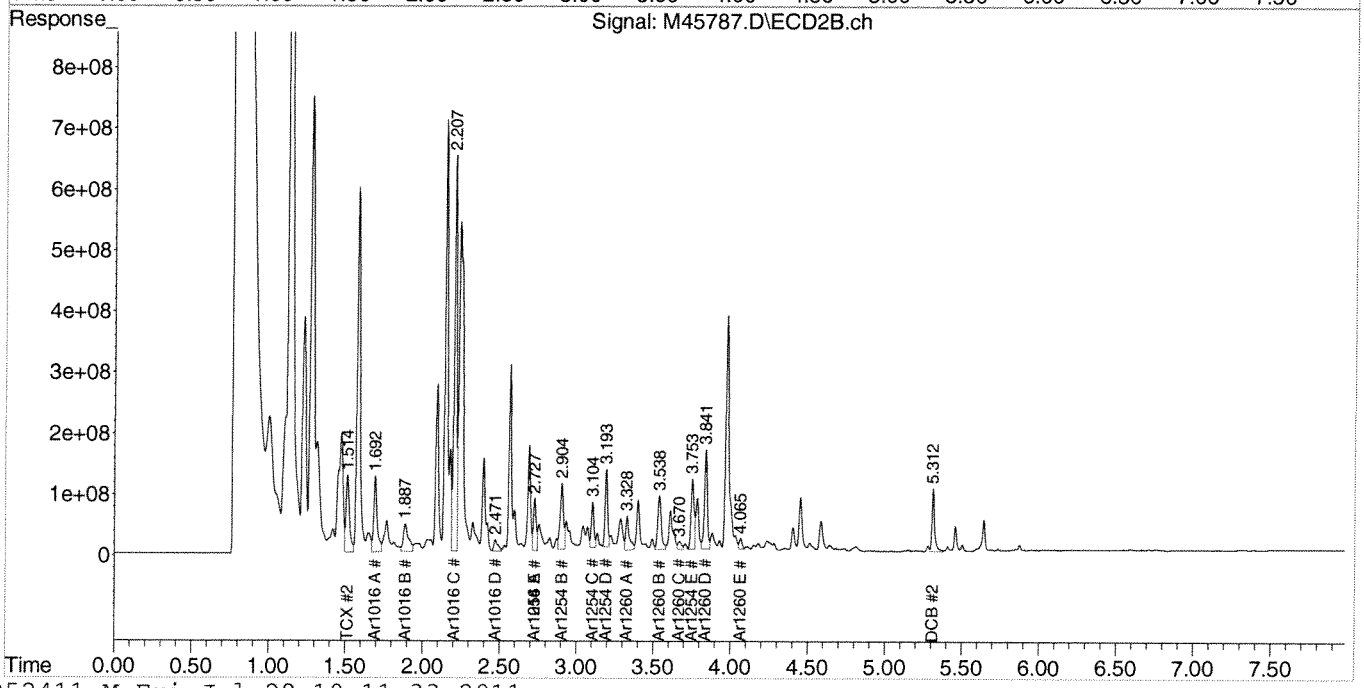
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\072811-M\
Data File : M45787.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Jul 2011 12:11 pm
Operator : JK
Sample : 70559-5,,A/C
Misc : SOIL
ALS Vial : 13 Sample Multiplier: 1

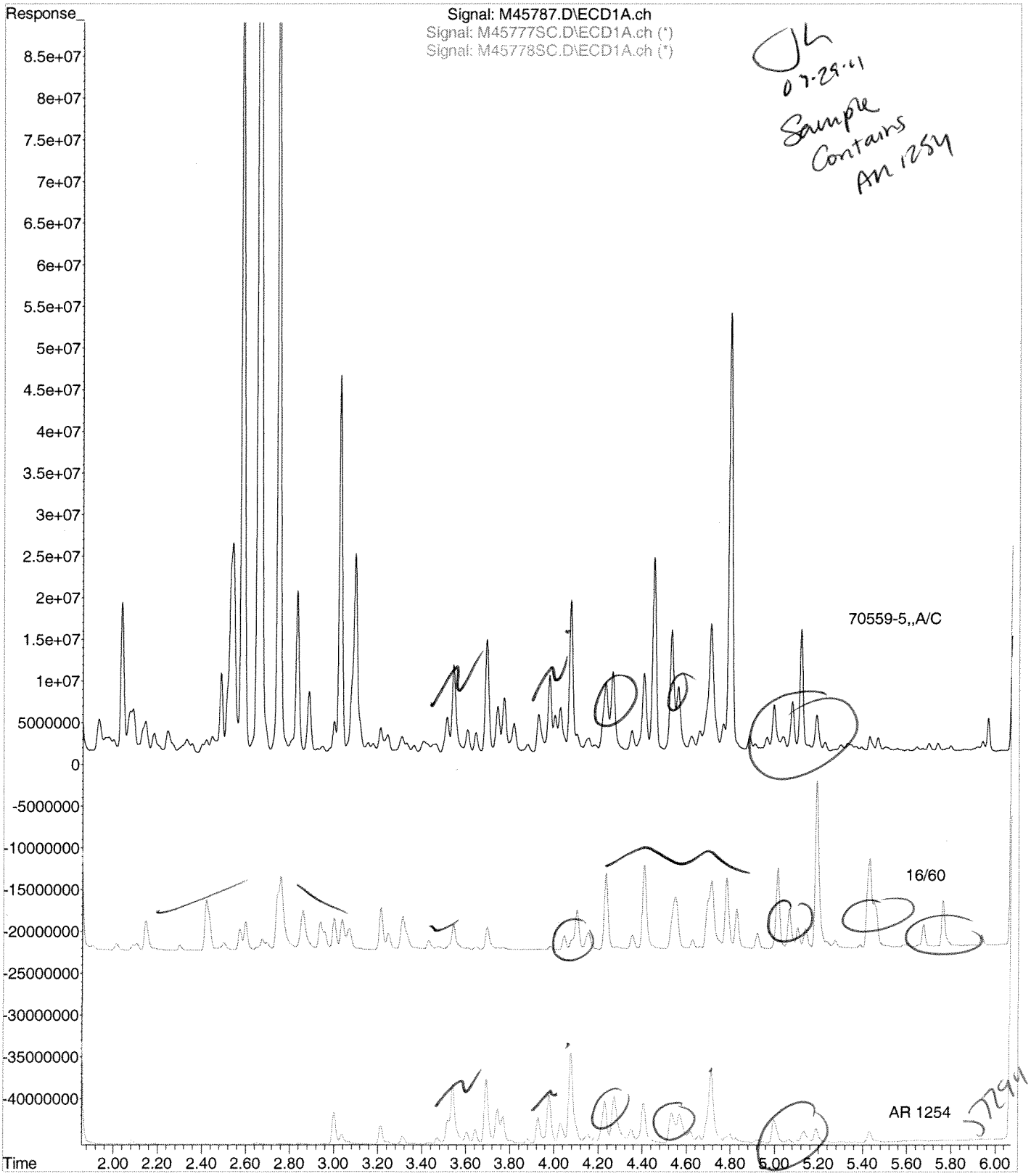
Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 29 10:11:17 2011
Quant Method : C:\msdchem\1\METHODS\PCB052411.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Jul 27 09:51:35 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





File :C:\msdchem\1\DATA\072811-M\M45787.D
Operator : JK
Acquired : 28 Jul 2011 12:11 pm using AcqMethod PCB.M
Instrument : Instrument M
Sample Name: 70559-5,,A/C
Misc Info : SOIL
Vial Number: 13



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603-436-5111 Fax 603-430-2151
800-929-9906

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

July 29, 2011

SAMPLE DATA

Lab Sample ID: 70559-6
Matrix: Solid
Percent Solid: 99
Dilution Factor: 1.0
Collection Date: 07/21/11
Lab Receipt Date: 07/22/11
Extraction Date: 07/22/11
Analysis Date: 07/28/11

CLIENT SAMPLE ID

Project Name: USM Gorham
Project Number: 224164
Field Sample ID: UH-VBC-082

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	33	U
PCB-1221	33	U
PCB-1232	33	U
PCB-1242	33	U
PCB-1248	33	U
PCB-1254	33	**957**
PCB-1260	33	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	82	%
Decachlorobiphenyl	50	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

COMMENTS: Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 70559
Sample: 70559-6,,A/C
Data File: M45788.D
Dilution Factor: 1.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/kg)	SAMPLE RESULT (ug/kg)	RPD	#
PCB 1254	957	818	15.6	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

Comments: _____

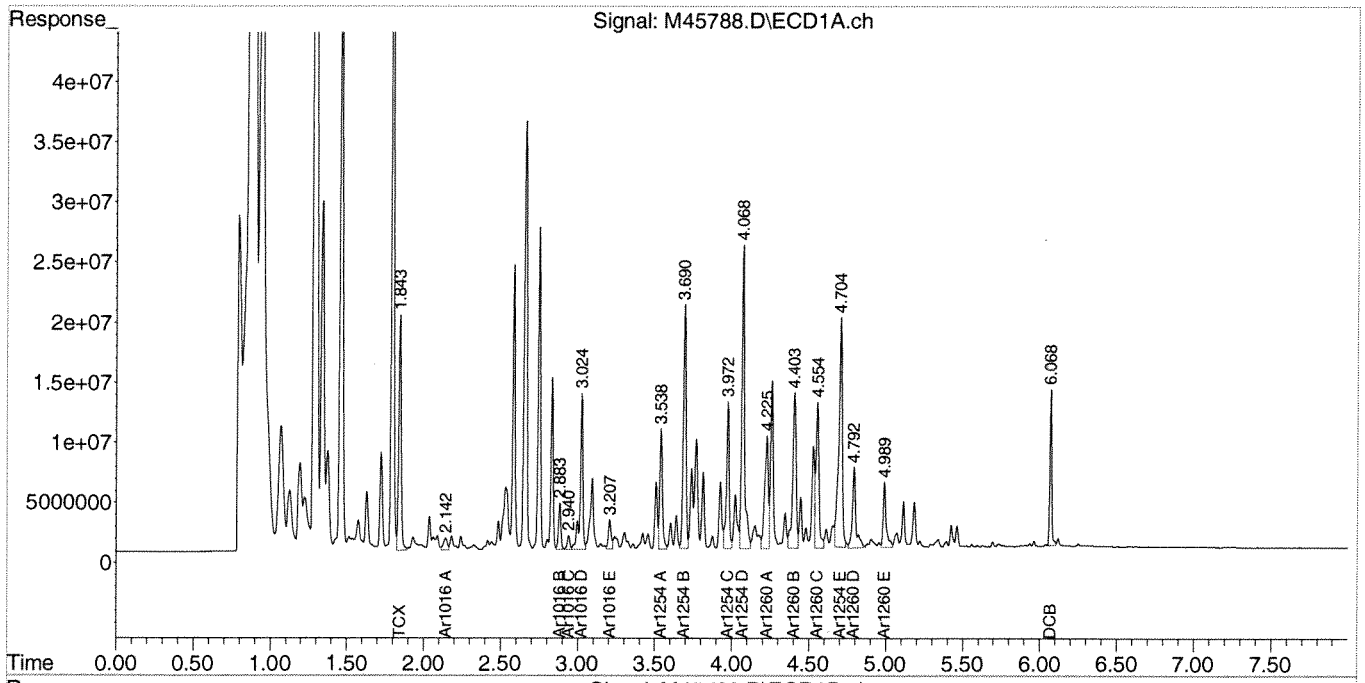
PCB FORM 10

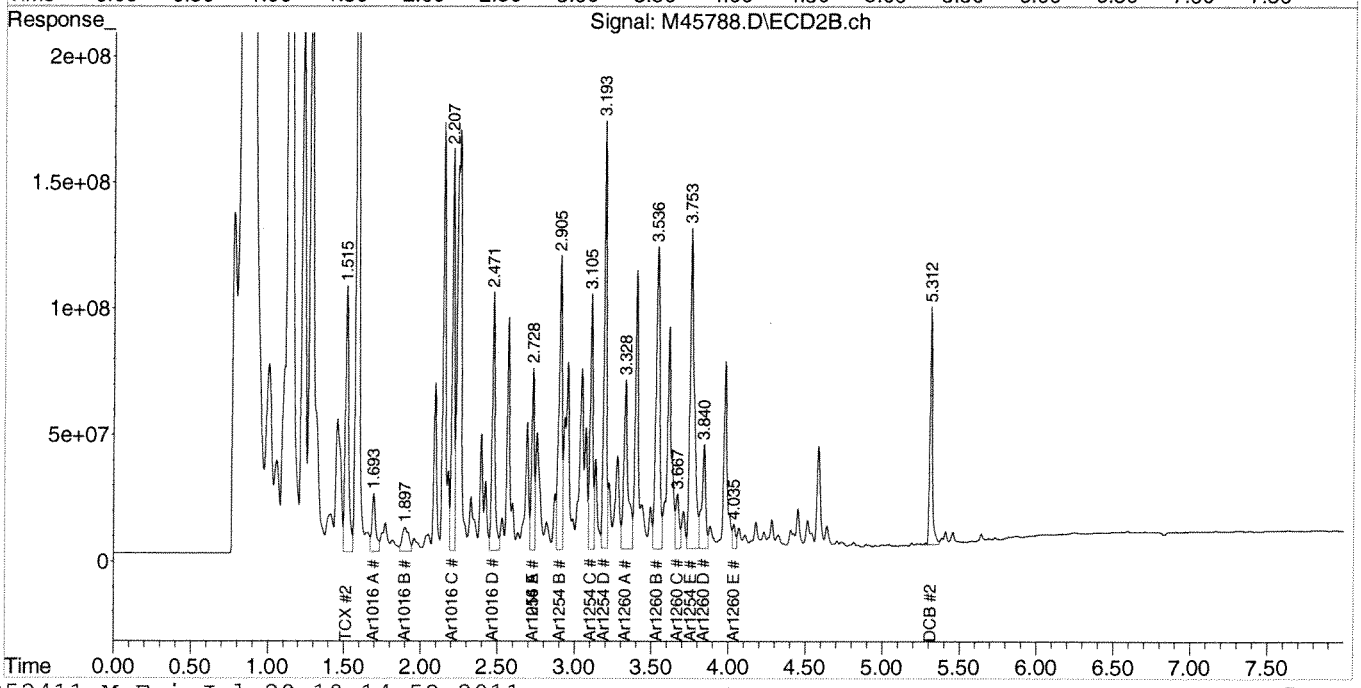
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\072811-M\
Data File : M45788.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 28 Jul 2011 12:21 pm
Operator : JK
Sample : 70559-6,,A/C
Misc : SOIL
ALS Vial : 14 Sample Multiplier: 1

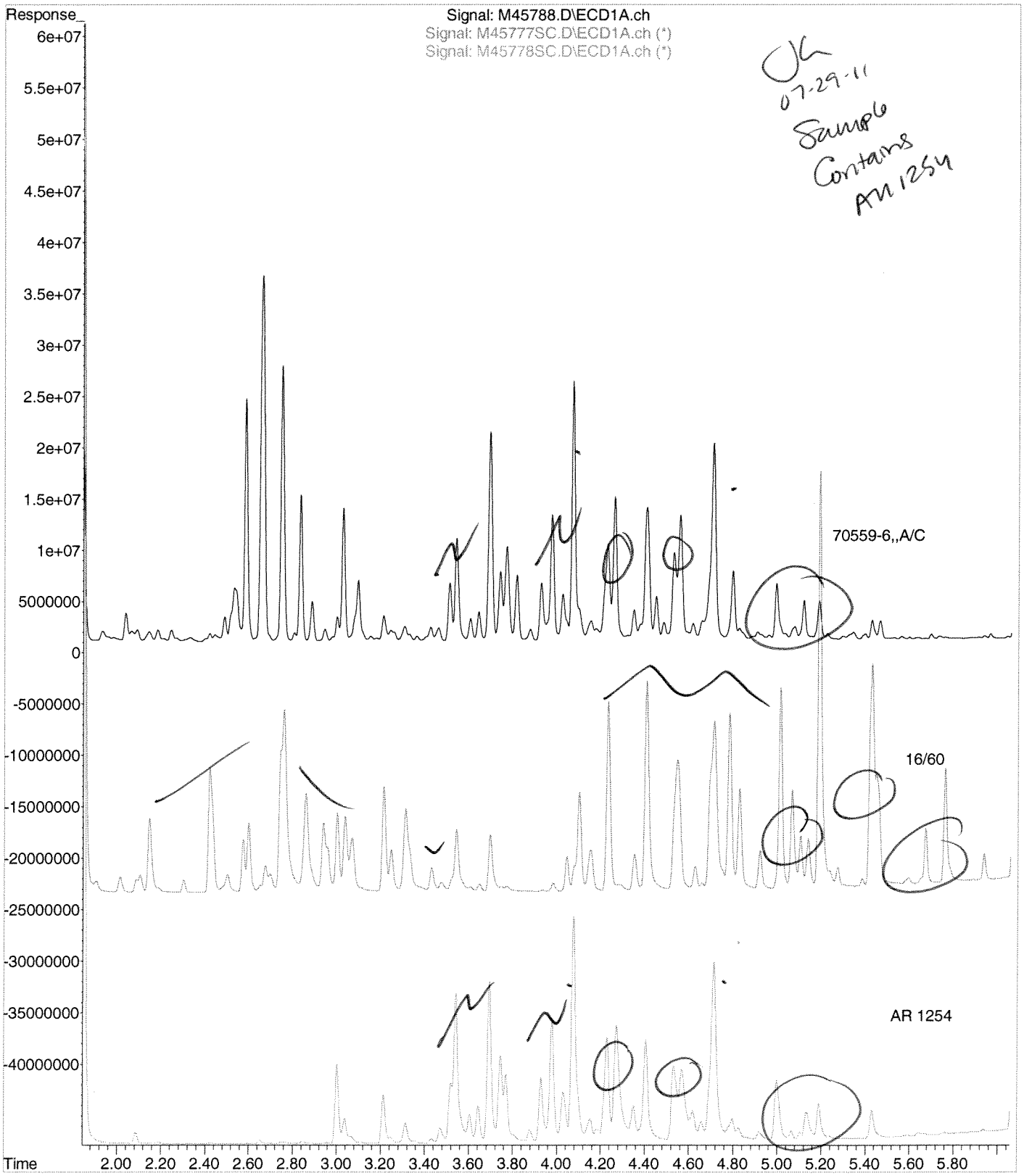
Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jul 29 10:14:21 2011
Quant Method : C:\msdchem\1\METHODS\PCB052411.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Jul 27 09:51:36 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





File :C:\msdchem\1\DATA\072811-M\M45788.D
Operator : JK
Acquired : 28 Jul 2011 12:21 pm using AcqMethod PCB.M
Instrument : Instrument M
Sample Name: 70559-6,,A/C
Misc Info : SOIL
Vial Number: 14



PCB
QC FORMS

AnalyticsLLC:AEL Documents LLC:Pkg Dividers:PCBQC.doc

PCB SOIL
SYSTEM MONITORING COMPOUNDS
SUMMARY

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 70559

	Column #1				Column #2			
SAMPLE ID	SMC 1 (%)	#	SMC 2 (%)	#	SMC 1 (%)	#	SMC 2 (%)	#
B072211PSOX2,,A/C	81		52		78		49	
L072211PSOX2,,A/C	83		51		78		47	
LD072211PSOX2,,A/C	85		52		79		49	
70559-5,,A/C	97		57		89		55	
70559-6,,A/C	82		50		72		46	

		Lower Limit	Upper Limit
SMC #1 =	TCX	40	130
SMC #2 =	DCB	40	130

Column to be used to flag recovery values outside of QC limits
* Values outside QC limits
D System Monitoring Compound diluted out

PCB SOIL
SYSTEM MONITORING COMPOUNDS
SUMMARY

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 70559

	Column #1				Column #2			
SAMPLE ID	SMC 1 (%)	#	SMC 2 (%)	#	SMC 1 (%)	#	SMC 2 (%)	#
B072211PSOX2,RR,,A/C	84		54		81		54	
70559-1,1:10,,A/C	100		60		84		62	
70559-2,1:20,,A/C	D		D		D		D	
70559-3,1:10,,A/C	92		62		71		65	
70559-4,1:10,,A/C	96		61		75		67	

	Lower Limit	Upper Limit
SMC #1 = TCX	40	130
SMC #2 = DCB	40	130

Column to be used to flag recovery values outside of QC limits
* Values outside QC limits
D System Monitoring Compound diluted out

PCB SOIL
LABORATORY CONTROL SAMPLE/DUPLICATE
PERCENT RECOVERY

Instrument ID: M

GC Column #1: STX-CLPesticides I

Column ID: 0.25 mm

GC Column #2: STX-CLPesticides II

Column ID: 0.25 mm

SDG: 70559

Non-spiked sample: B072211PSOX2,,A/C

Spike: L072211PSOX2,,A/C

Spike duplicate: LD072211PSOX2,,A/C

COMPOUND	LCS SPIKE ADDED (ug/kg)	LCSD SPIKE ADDED (ug/kg)	LOWER LIMIT	UPPER LIMIT	RPD LIMIT	NON-SPIKE RESULT (ug/kg)	SPIKE RESULT (ug/kg)	SPIKE % REC	#	SPIKE DUP RESULT (ug/kg)	SPIKE DUP % REC	#	RPD	#
PCB 1016	200	200	65	140	30	0	199	100		195	97		2.3	
PCB 1260	200	200	60	130	30	0	225	113		184	92		20.1	
PCB 1016 #2	200	200	65	140	30	0	212	106		217	109		2.6	
PCB 1260 #2	200	200	60	130	30	0	191	96		159	79		18.7	

Column to be used to flag recovery and RPD values outside of QC limits

* Values outside QC limits

LCS/LCSD spike added values have been weight adjusted.

Non-spike result of "0" used in place of "U" to allow calculation of spike recovery.

Comments: _____

_____

CHAIN OF CUSTODIES

Chain Of Custody Form

analytics environmental laboratory LLC
195 Commerce Way, Suite E
Portsmouth, NH 03801
(800) 929-9906
(603) 436-5111
(603) 430-2151 Fax

Project#: 224164 Proj. Name: USM Gorham
Company: Woodard + Curran
Report to: Amy Wallace, Scott Luczko
Address: 41 Hutchins Dr
Portland, ME 04102
Phone: 207-774-2112
Quote #:
PO# (if required):

For Analytics Use Only
Samples were:
1) Shipped or hand-delivered
2) Temperature (°C): 2.0
3) Received in good condition: Y or N
4) pH checked by: NA
5) Labels checked by: JBB 7/22/11

Circle and/or Write Required Analysis

Station Identification	Sample Date	Sample Time	Preservation: Unpres	4° C	HNO_3	H_2SO_4	HCl	Methanol	Other	Field Filtered? Y or N	VOC: 8260 524.2 624	SVOC: 8270 625 PAH only SIM	Pesticides: 8081 608	PCB: 8082 608 Soxhlet? Y or N	TPH: 8015DRO 8015GRO 8100M	EPH: Full (includes targets) Ranges only	VPH: Full (includes targets) Ranges only	Metals: RCRA8 PP13 TAL23 Other*	Matrix	No. of Containers	pH checked	Analytics Sample #
UH-VBB-077	7/21/11	0910		X										X					X-Brick	1		70559-1
UH-VBB-078	↓	0920		↓										↓					X-Brick	1		-2
UH-VBB-079		0935																	X-Brick	1		-3
UH-VBB-080		0945																	X-Brick	1		-4
UH-VBB-081		1055																	X-Brick	1		-5
UH-VBC-082	↓	1105		↓										↓					C	1		-6

Matrix Key:
C = Concrete
WP = Wipe
WW = Wastewater
SW = Surface Water
E = Extract
GW = Groundwater
DW = Drinking Water
S = Soil / Sludge
O = Oil
X = Other

Email Results to:
sluczko@woodardcurran.com
awallace@woodardcurran.com

Turnaround Time (TAT)
- [ ] 24 Hours*
- [ ] 48 Hours*
- [ ] 72 Hours*
- [x] 5 Days*
- [ ] 10 Days

*Fee may apply; lab approval required

Comments, Additional Analyses, or Special Instructions: * List requested metals here

PCBs via USEPA 8082 w/soxhlet extraction

Project Requirements:
*Fee may apply

Report Type:
- [ ] MCP*
- [ ] CTRCP*
- [ ] DOD*
- [x] Level II*
- [ ] Level III*
- [ ] Level IV*
- [ ] Standard

State:
- [ ] NH
- [ ] MA
- [x] ME
- [ ] CT
- [ ] RI

Other:

State Standard: (eg. S-1 or GW-1)

EDD Required: Y* N

Type: PDF

Sampler Name (Print): Scott Luczko

Relinquished By Sampler:	Date: 7/21/11	Time: 15:30	Received By:	UPS Shipping
Relinquished By: UPS	Date: 7/22/11	Time: 1:30	Received By:	
Relinquished By:	Date:	Time:	Received By:	JBB 7/22/11

Page ____ of ____

ANALYTICS SAMPLE RECEIPT CHECKLIST

analytics environmental laboratory LLC

AEL LAB#: 70559 COOLER NUMBER: 12

CLIENT: Woodard + Curran NUMBER OF COOLERS: 1

PROJECT: USM Gorham DATE RECEIVED: 7.22.11

A: PRELIMINARY EXAMINATION: DATE COOLER OPENED: 7.22.11

1. Cooler received by(initials): MJG Date Received: 7.22.11

2. Circle one: Hand delivered (If so, skip 3) Shipped

3. Did cooler come with a shipping slip? Y N

3a. Enter carrier name and airbill number here: IZ 093244039050782 8

4. Were custody seals on the outside of cooler? Y N
How many & where: _____ Seal Date: _____ Seal Name: _____

5. Did the custody seals arrive unbroken and intact upon arrival? Y NA

6. COC#: _____

7. Were Custody papers filled out properly (ink,signed, etc)? Y N

8. Were custody papers sealed in a plastic bag? Y N

9. Did you sign the COC in the appropriate place? Y N

10. Was the project identifiable from the COC papers? Y N

11. Was enough ice used to chill the cooler? Y N Temp. of cooler: 2.0

B. Log-In: Date samples were logged in: 7.22.11 By: MJG

12. Type of packing in cooler(bubble wrap, popcorn) Y N

13. Were all bottles sealed in separate plastic bags? Y N

14. Did all bottles arrive unbroken and were labels in good condition? Y N

15. Were all bottle labels complete(ID,Date,time,etc.) Y N

16. Did all bottle labels agree with custody papers? Y N

17. Were the correct containers used for the tests indicated: Y N

18. Were samples received at the correct pH? Y NA

19. Was sufficient amount of sample sent for the tests indicated? Y N

20. Were all samples submitted within holding time? Y N

21. Were bubbles absent in VOA samples? Y NA

If NO, List Sample ID's and Lab #s: _____

22. Laboratory labeling verified by (initials): JB Date: 7/22/11

SCOTT LUCZKO
207-774-2112 0
WOODARD & CURRAN (PORTLAND)
41 HUTCHINS DRIVE
PORTLAND ME 04102

19 LBS

1 OF 1

SHIP TO:
SARAH CARON
ANALYTICS LABORATORY
SUITE E
195 COMMERCE WAY
PORTSMOUTH NH 03801-3251

NH 038 0-01

UPS GROUND
TRACKING #: 1Z 093 244 03 9050 7828

BILLING: P/P

Project#\Phase or G.O.: 6A55B5
Personal - Enter Y or N: N

CS 13.5.32 WXPIE70 15.0A 04/2011

SCC APPLIED
DO NOT DUPLICATE

https://www.campusship.ups.com/cship/create?action=displayOrigin&Pair=defaultPair&__utmt=1&__utmt=1&__utmt=1 10/5/2... Page 1 of 1

analytics environmental laboratory LLC

195 Commerce Way Suite E
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906
www.analyticslab.com

August 10, 2011

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

RE: Analytical Results Case Narrative
Analytics # 70651
USM Gorham Proj# 224164

Dear Ms. Wallace;

Enclosed please find the analytical results for samples submitted for the above-mentioned project. The attached Cover Page lists the sample IDs, Lab tracking numbers and collection dates for the samples included in this deliverable.

Samples were analyzed for Polychlorinated Biphenyls (PCBs) by EPA Method 8082.

Unless otherwise noted in the Non-conformance Summary listed below, all of the quality control (QC) criteria including initial calibration, calibration verification, surrogate recovery, holding time and method accuracy/precision for these analyses were within acceptable limits.

This Level II data package has been assembled in the following order:

Case Narrative/Non-Conformance Summary
Sample Log Sheet - Cover Page
PCB Form 1 Data Sheet for Samples and Blanks
Chromatograms
PCB Form 10 Confirmation Results
PCB Form 3 MS/MSD (LCS) Recoveries
Chain of Custody (COC) Forms

QC NON-CONFORMANCE SUMMARY

Sample Receipt:
No QC exceptions.

PCBs by EPA Method 8082:
No results were reported below the quantitation limit.

If you have any questions on these results, please do not hesitate to contact me.

Sincerely,
ANALYTICS Environmental Laboratory, LLC

Stephen L. Knollmeyer
Laboratory Director

analytics environmental laboratory LLC

195 Commerce Way Suite E
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906
www.analyticslab.com

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

Report Number: 70651

Revision: Rev. 0

Re: USM Gorham (Project No: 224164)

Enclosed are the results of the analyses on your sample(s). Samples were received on 03 August 2011 and analyzed for the tests listed. Samples were received in acceptable condition, with the exceptions noted below or on the chain of custody. These results pertain to samples as received by the laboratory and for the analytical tests requested on the chain of custody. The results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. Please see individual reports for specific methodologies and references.

Lab Number	Sample Date	Station Location	Analysis	Comments
70651-1	08/02/11	UH-VWB-083	EPA 8082 (PCBs only)	
70651-2	08/02/11	UH-VWC-084	EPA 8082 (PCBs only)	
70651-3	08/02/11	UH-VWW-085	EPA 8082 (PCBs only)	
70651-4	08/02/11	UH-VWW-086	EPA 8082 (PCBs only)	
70651-5	08/02/11	UH-VWD-087	EPA 8082 (PCBs only)	

Sample Receipt Exceptions: None

Analytics Environmental Laboratory is certified by the states of New Hampshire, Maine, Massachusetts, Connecticut, Rhode Island, Virginia, Maryland, and North Carolina, and is accredited by the Deparment of Defense (DOD) ELAP program. A list of actual certified parameters is available upon request.

If you have any questions on these results, please do not hesitate to contact us.

Authorized signature _____
Stephen L. Knollmeyer Lab. Director

Date 08/10/11

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analytics environmental laboratory LLC

Surrogate Compound Limits

Matrix:	Aqueous	Solid	
Units:	% Recovery	% Recovery	Method
Volatile Organic Compounds - Drinking Water			
1,4-Difluorobenzene	70-130		EPA 524.2
Bromofluorobenzene	70-130		
1,2-Dichlorobenzene-d4	70-130		
Volatile Organic Compounds			
1,2-Dichloroethane-d4	70-120	70-120	EPA 624/8260B
Toluene-d8	85-120	85-120	
Bromofluorobenzene	75-120	75-120	
Semi-Volatile Organic Compounds			
2-Fluorophenol	20-110	35-105	EPA 625/8270C
d5-Phenol	15-110	40-100	
d5-nitrobenzene	40-110	35-100	
2-Fluorobiphenyl	50-110	45-105	
2,4,6-Tribromophenol	40-110	40-125	
d14-p-terphenyl	50-130	30-125	
PAH's by SIM			
d5-nitrobenzene	21-110	35-110	EPA 8270C
2-Fluorobiphenyl	36-121	45-105	
d14-p-terphenyl	33-141	30-125	
Pesticides and PCBs			
2,4,5,6-Tetrachloro-m-xylene (TCX)	46-122	40-130	EPA 608/8082
Decachlorobiphenyl (DCB)	40-135	40-130	
Herbicides			
Dichloroacetic acid (DCAA)	30-150	30-150	
Gasoline Range Organics/TPH Gasoline			
Trifluorotoluene TFT (FID)	60-140	60-140	MEDEP 4217/EPA 8015
Bromofluorobenzene (BFB) (FID)	60-140	60-140	
Trifluorotoluene TFT (PID)	60-140	60-140	
Bromofluorobenzene (BFB) (PID)	60-140	60-140	
Diesel Range Organics/TPH Diesel			
m-terphenyl	60-140	60-140	MEDEP 4125/EPA 8015/CT ETPH
Volatile Petroleum Hydrocarbons			
2,5-Dibromotoluene (PID)	70-130	70-130	MADEP VPH May 2004 Rev1.1
2,5-Dibromotoluene (FID)	70-130	70-130	
Extracatable Petroleum Hydrocarbons			
1-chloro-octadecane (aliphatic)	40-140	40-140	MADEP EPH May 2004 Rev1.1
o-Terphenyl (aromatic)	40-140	40-140	
2-Fluorobiphenyl (Fractionation)	40-140	40-140	
2-Bromonaphthalene (fractionation)	40-140	40-140	

PCB
DATA SUMMARIES

analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

August 10, 2011

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: USM Gorham

Project Number: 224164

Field Sample ID: Lab QC

Lab Sample ID: B080311PSOXW
Matrix: Wipe
Percent Solid: N/A
Dilution Factor: 1.0
Collection Date:
Lab Receipt Date:
Extraction Date: 08/03/11
Analysis Date: 08/05/11

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	U
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	93	%
Decachlorobiphenyl	93	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

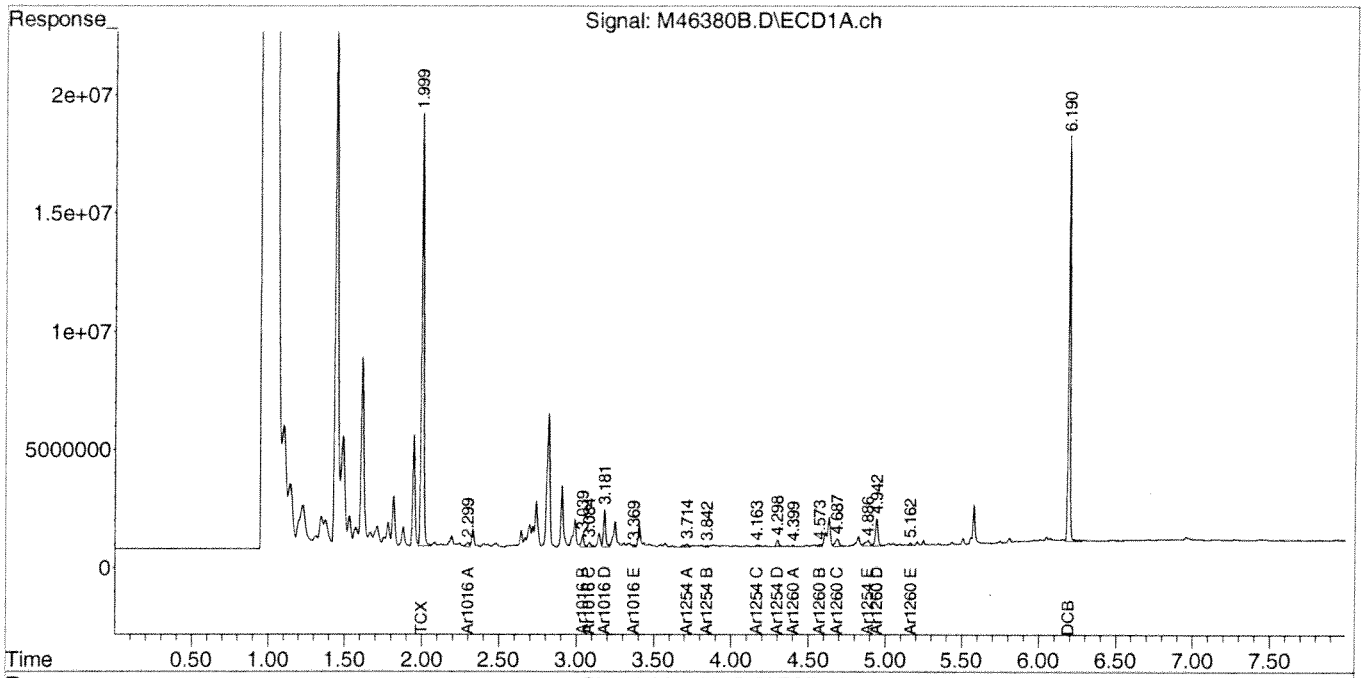
PCB Report

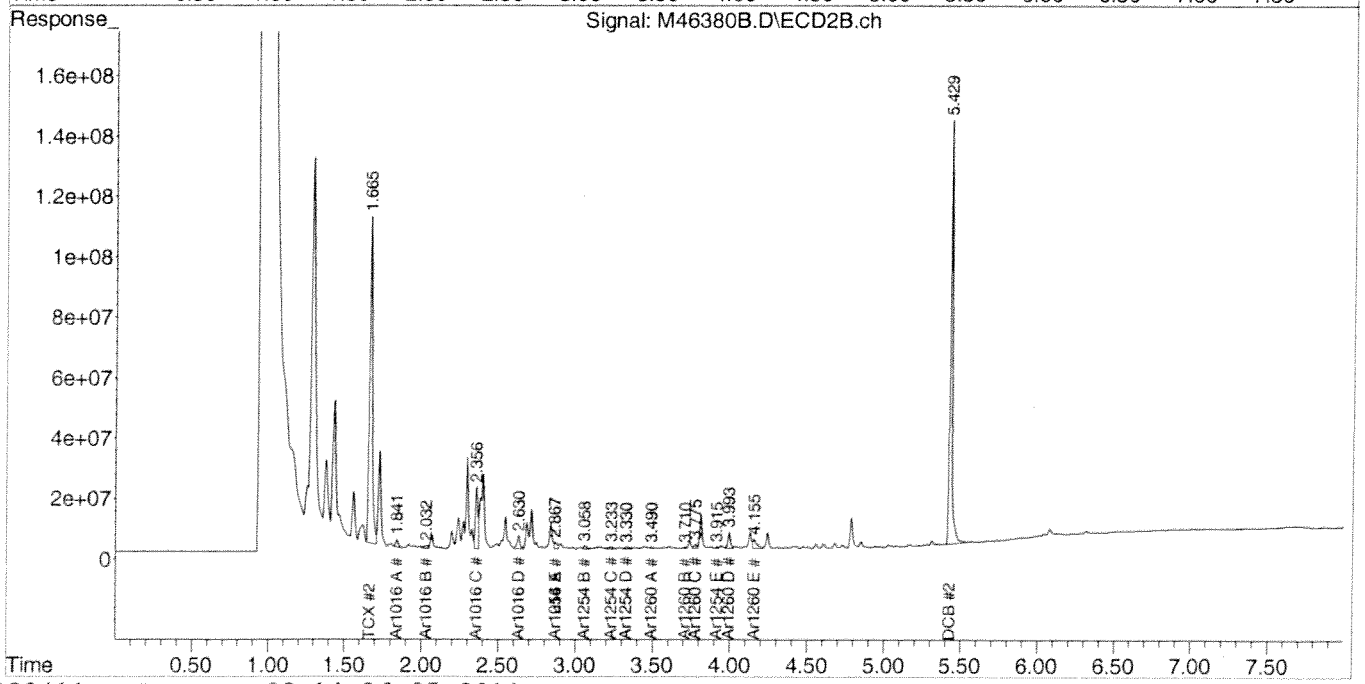
Authorized signature

Data Path : C:\msdchem\1\DATA\080411-M\
Data File : M46380B.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 5 Aug 2011 4:33 am
Operator : JK
Sample : B080311PSOXW,,A/C
Misc : SOIL
ALS Vial : 67 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 09 14:25:31 2011
Quant Method : C:\msdchem\1\METHODS\PCB080411.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Fri Aug 05 08:08:09 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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800-929-9906

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

August 10, 2011

SAMPLE DATA

Lab Sample ID: 70651-1
Matrix: Wipe
Percent Solid: N/A
Dilution Factor: 1.0
Collection Date: 08/02/11
Lab Receipt Date: 08/03/11
Extraction Date: 08/03/11
Analysis Date: 08/05/11

CLIENT SAMPLE ID

Project Name: USM Gorham
Project Number: 224164
Field Sample ID: UH-VWB-083

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	**0.6**
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	93	%
Decachlorobiphenyl	90	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 70651
Sample: 70651-1,,A/C
Data File: M46383.D
Dilution Factor: 1.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/wipe)	SAMPLE RESULT (ug/wipe)	RPD	#
PCB 1254	0.64	0.56	12.1	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

Comments: _____

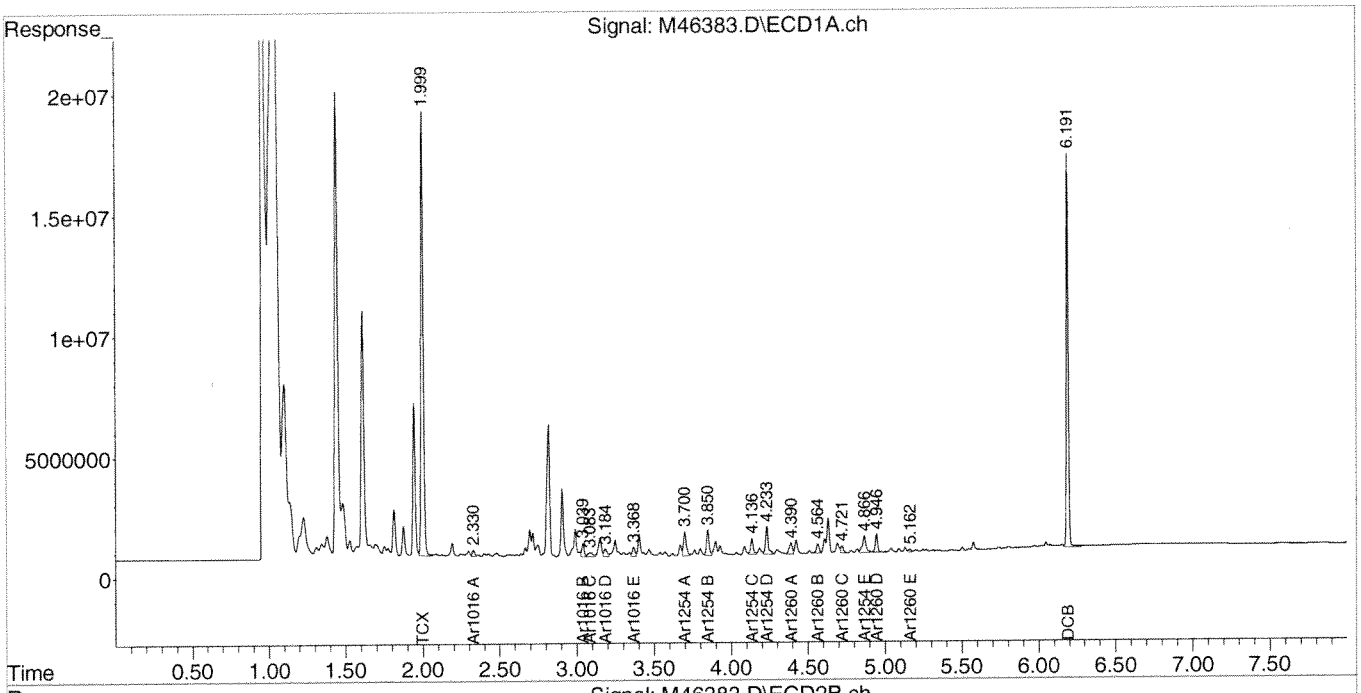
PCB FORM 10

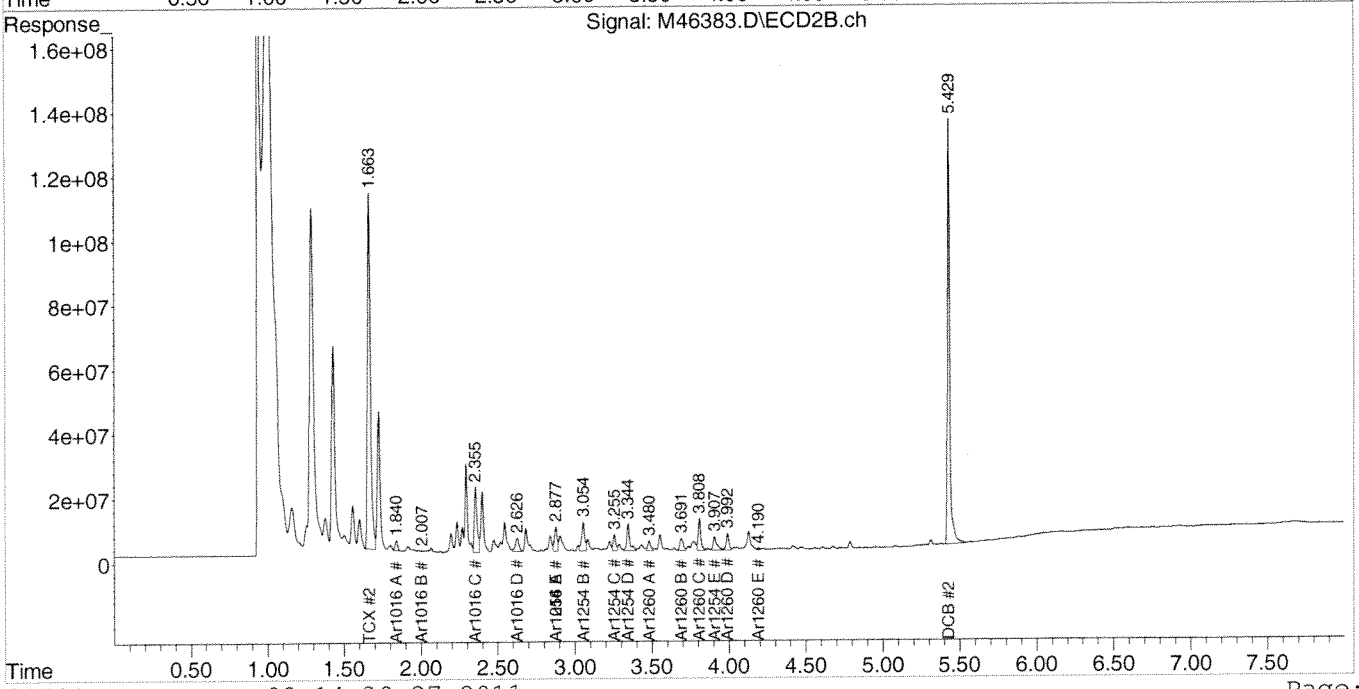
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\080411-M\
Data File : M46383.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 5 Aug 2011 5:03 am
Operator : JK
Sample : 70651-1,,A/C
Misc : SOIL
ALS Vial : 70 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 09 14:30:17 2011
Quant Method : C:\msdchem\1\METHODS\PCB080411.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Fri Aug 05 08:08:10 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

August 10, 2011

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: USM Gorham

Project Number: 224164

Field Sample ID: UH-VWC-084

Lab Sample ID: 70651-2
Matrix: Wipe
Percent Solid: N/A
Dilution Factor: 1.0
Collection Date: 08/02/11
Lab Receipt Date: 08/03/11
Extraction Date: 08/03/11
Analysis Date: 08/05/11

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	U
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	97	%
Decachlorobiphenyl	94	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

PCB Report

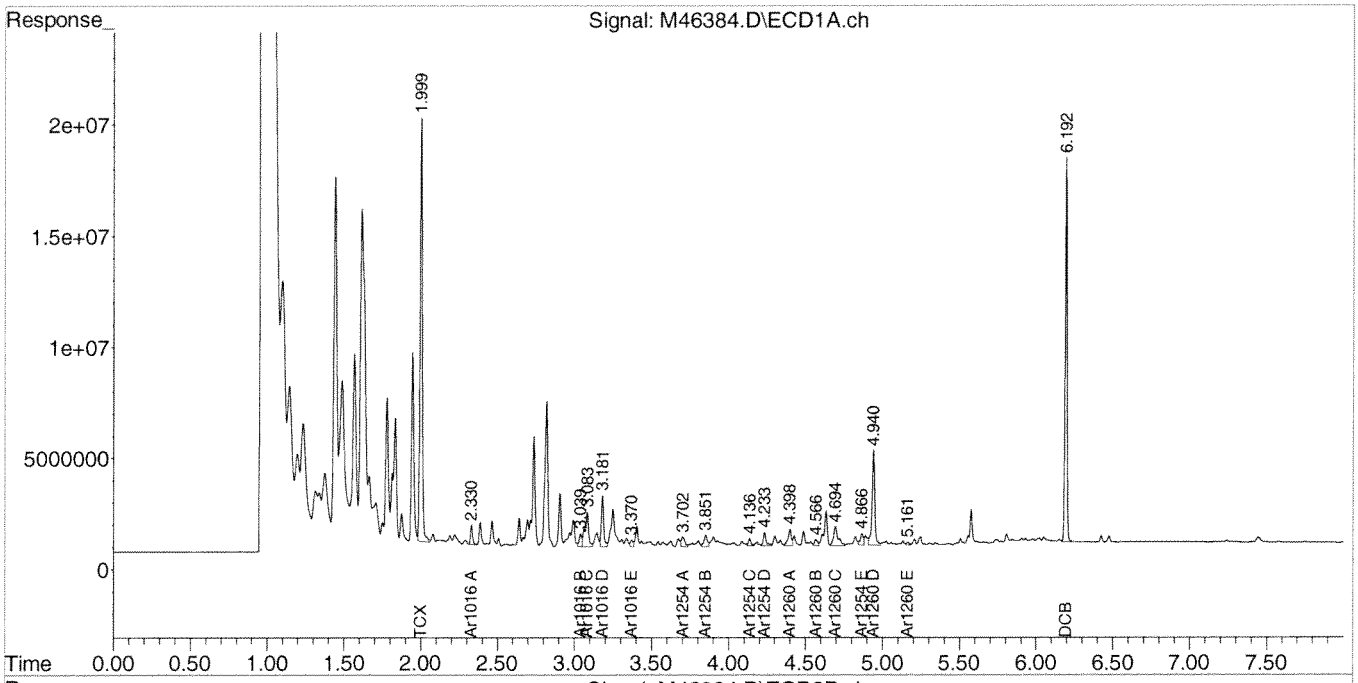
Authorized signature

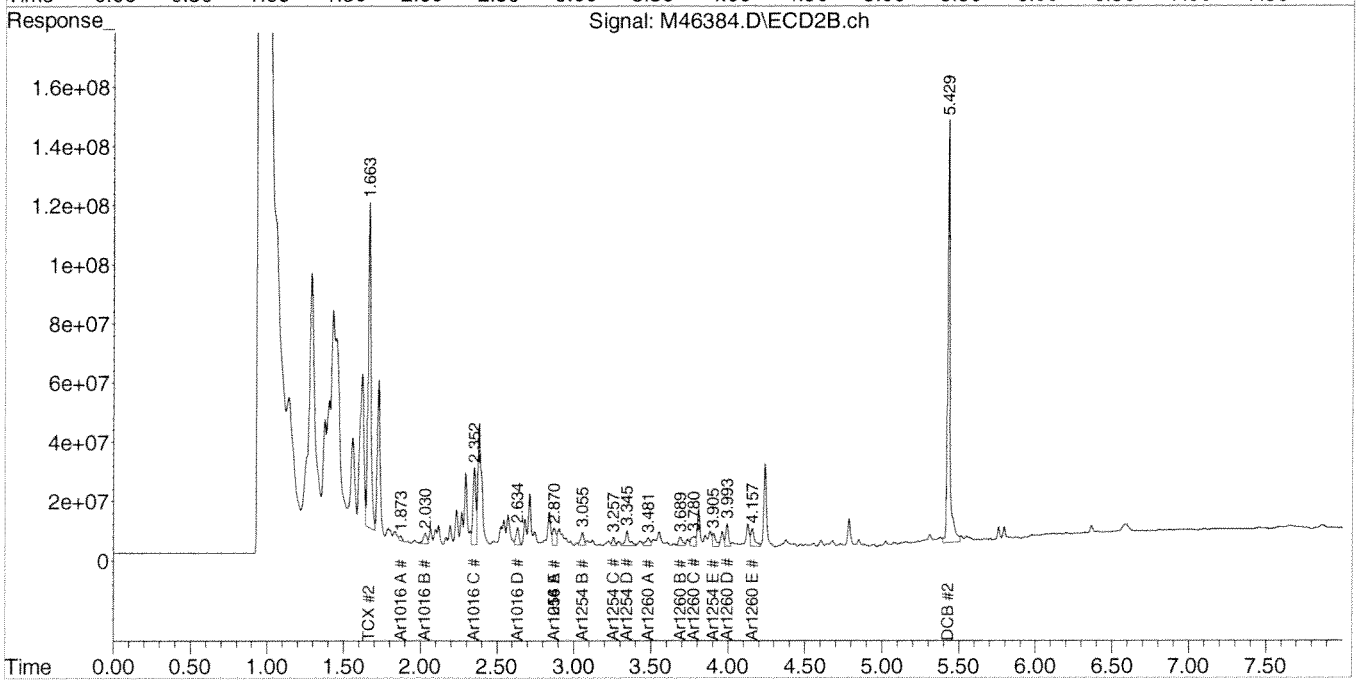
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\080411-M\
Data File : M46384.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 5 Aug 2011 5:13 am
Operator : JK
Sample : 70651-2,,A/C
Misc : SOIL
ALS Vial : 71 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 09 14:53:58 2011
Quant Method : C:\msdchem\1\METHODS\PCB080411.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Fri Aug 05 08:08:10 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

August 10, 2011

SAMPLE DATA

Lab Sample ID: 70651-3
Matrix: Wipe
Percent Solid: N/A
Dilution Factor: 1.0
Collection Date: 08/02/11
Lab Receipt Date: 08/03/11
Extraction Date: 08/03/11
Analysis Date: 08/05/11

CLIENT SAMPLE ID

Project Name: USM Gorham
Project Number: 224164
Field Sample ID: UH-VWW-085

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	U
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	94	%
Decachlorobiphenyl	96	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

PCB Report

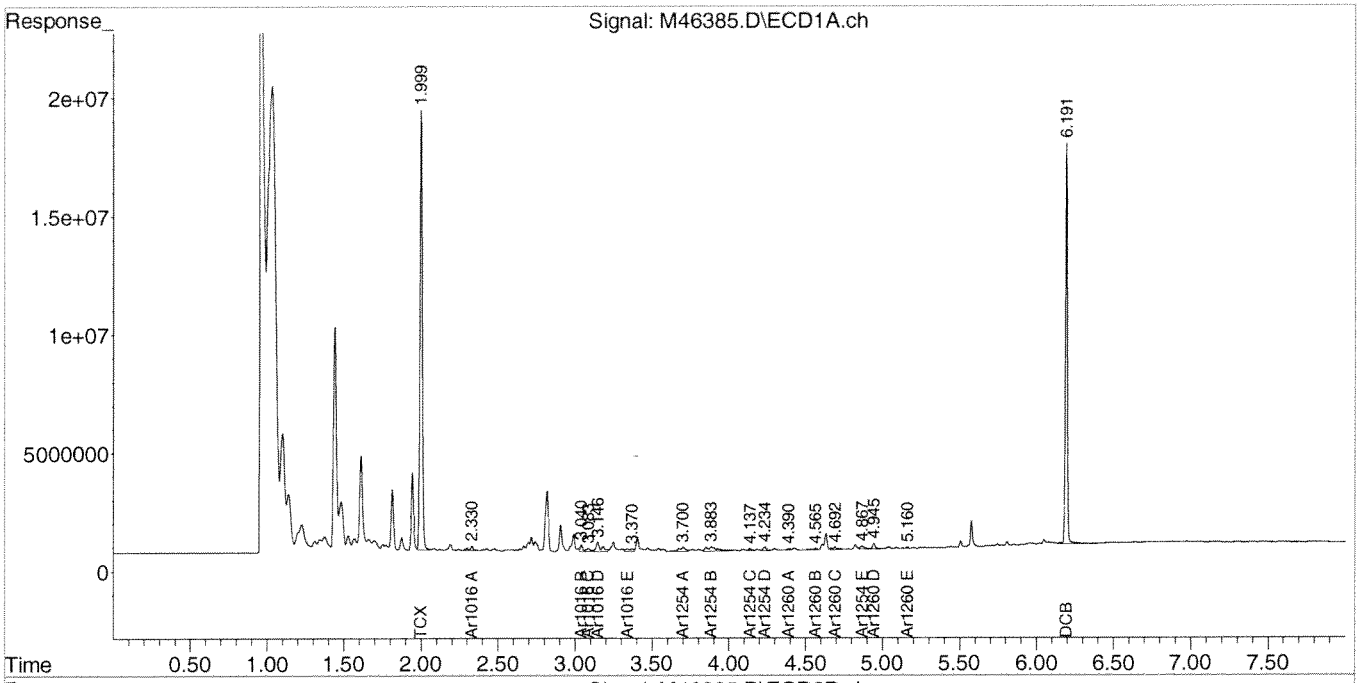
Authorized signature

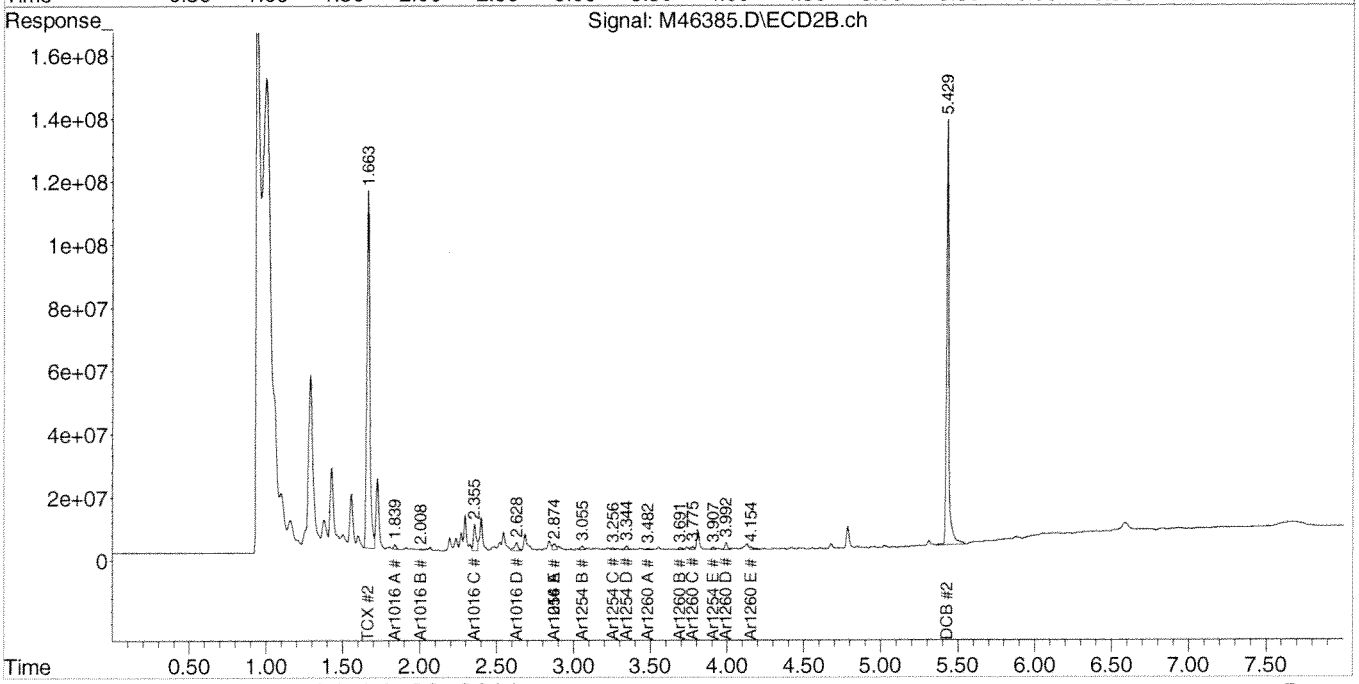
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\080411-M\
Data File : M46385.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 5 Aug 2011 5:23 am
Operator : JK
Sample : 70651-3,,A/C
Misc : SOIL
ALS Vial : 72 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 09 14:25:41 2011
Quant Method : C:\msdchem\1\METHODS\PCB080411.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Fri Aug 05 08:08:10 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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800-929-9906

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

August 10, 2011

SAMPLE DATA

Lab Sample ID: 70651-4
Matrix: Wipe
Percent Solid: N/A
Dilution Factor: 1.0
Collection Date: 08/02/11
Lab Receipt Date: 08/03/11
Extraction Date: 08/03/11
Analysis Date: 08/05/11

CLIENT SAMPLE ID

Project Name: USM Gorham
Project Number: 224164
Field Sample ID: UH-VWW-086

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	U
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	96	%
Decachlorobiphenyl	91	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

PCB Report

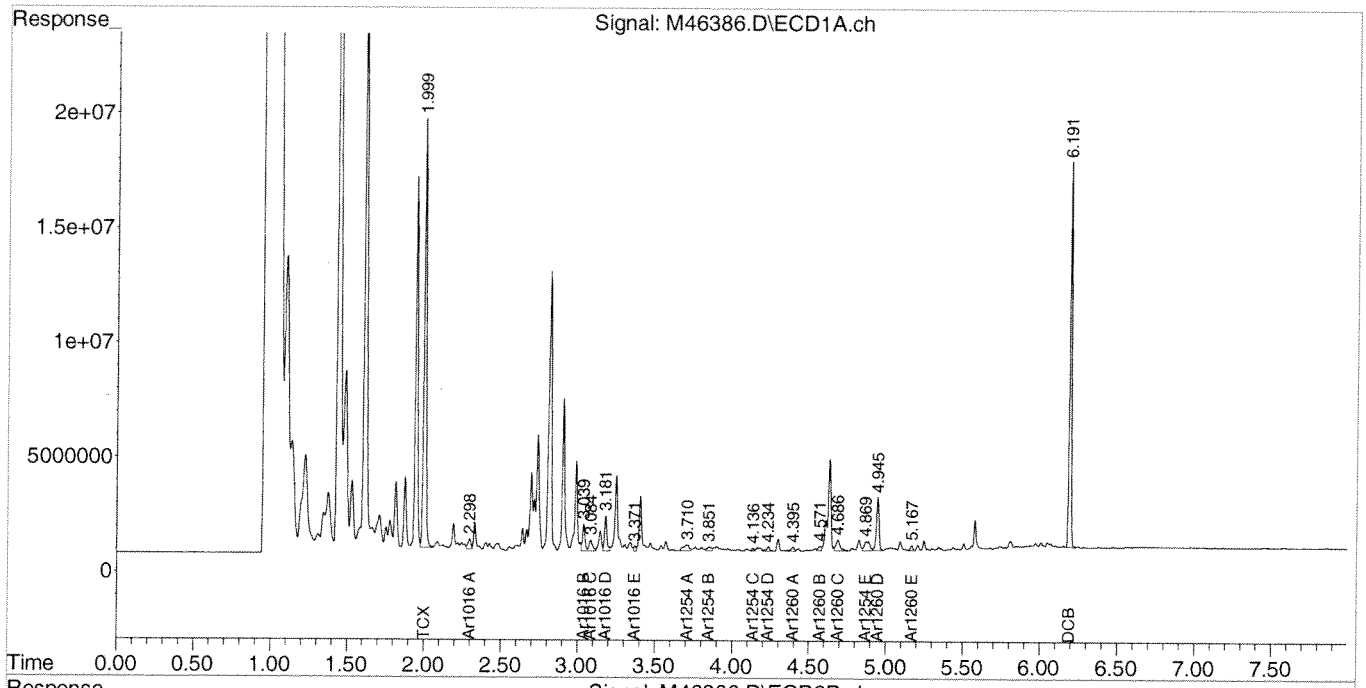
Authorized signature

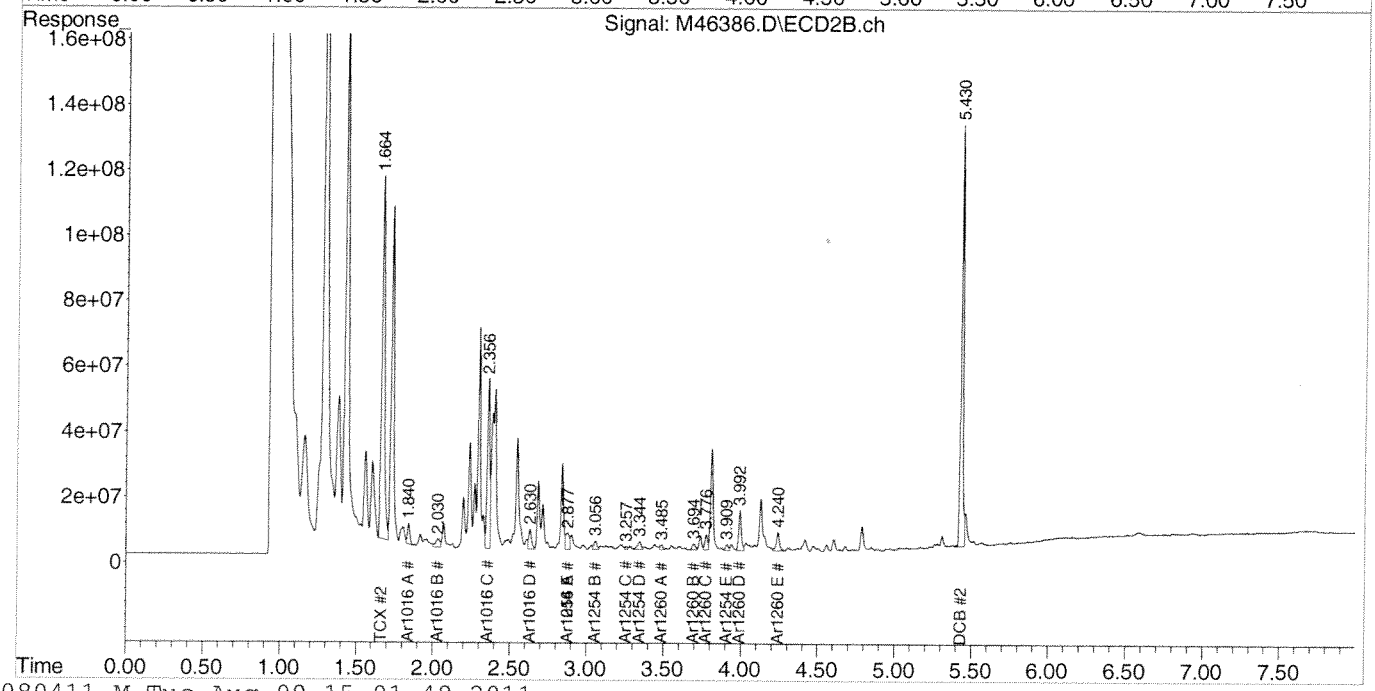
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\080411-M\
Data File : M46386.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 5 Aug 2011 5:33 am
Operator : JK
Sample : 70651-4,,A/C
Misc : SOIL
ALS Vial : 73 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 09 14:25:43 2011
Quant Method : C:\msdchem\1\METHODS\PCB080411.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Fri Aug 05 08:08:10 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





analytics environmental laboratory LLC

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800-929-9906

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

August 10, 2011

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: USM Gorham

Project Number: 224164

Field Sample ID: UH-VWD-087

Lab Sample ID: 70651-5
Matrix: Wipe
Percent Solid: N/A
Dilution Factor: 1.0
Collection Date: 08/02/11
Lab Receipt Date: 08/03/11
Extraction Date: 08/03/11
Analysis Date: 08/05/11

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	**1.1**
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	86	%
Decachlorobiphenyl	79	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 70651
Sample: 70651-5,,A/C
Data File: M46387.D
Dilution Factor: 1.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/wipe)	SAMPLE RESULT (ug/wipe)	RPD	#
PCB 1254	1.10	0.84	27.3	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

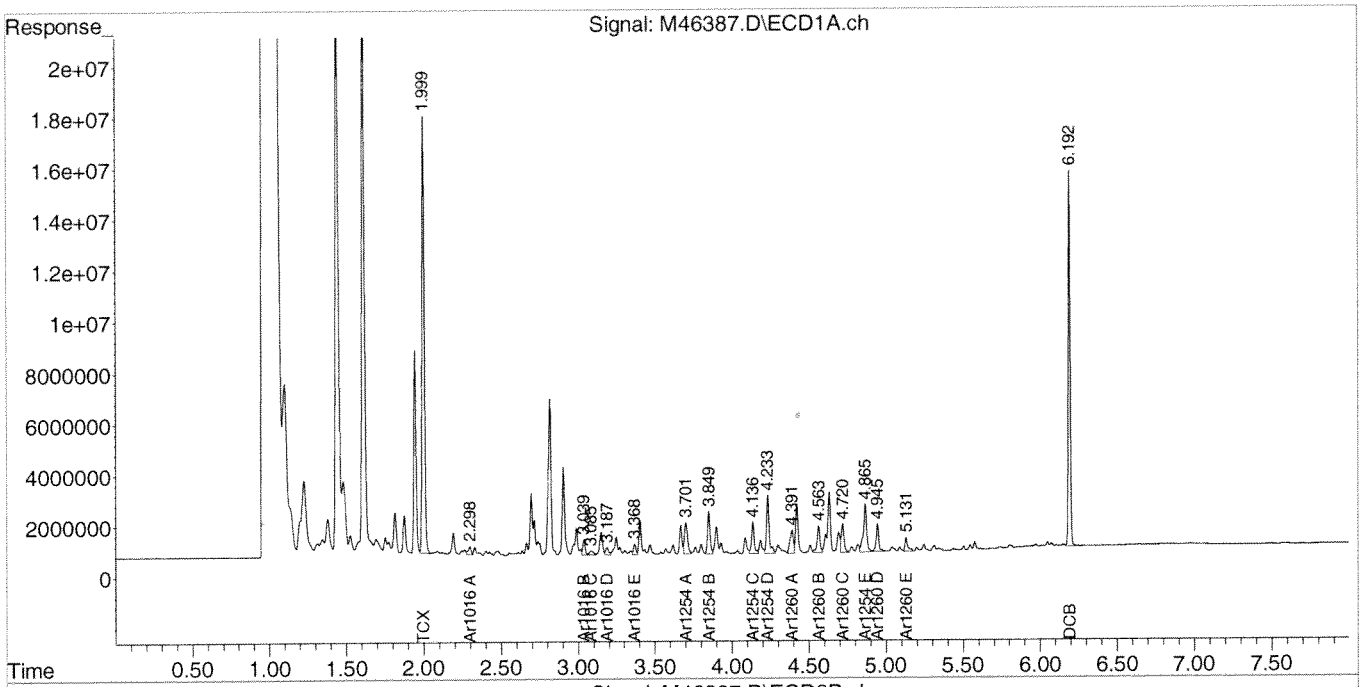
Comments: _____

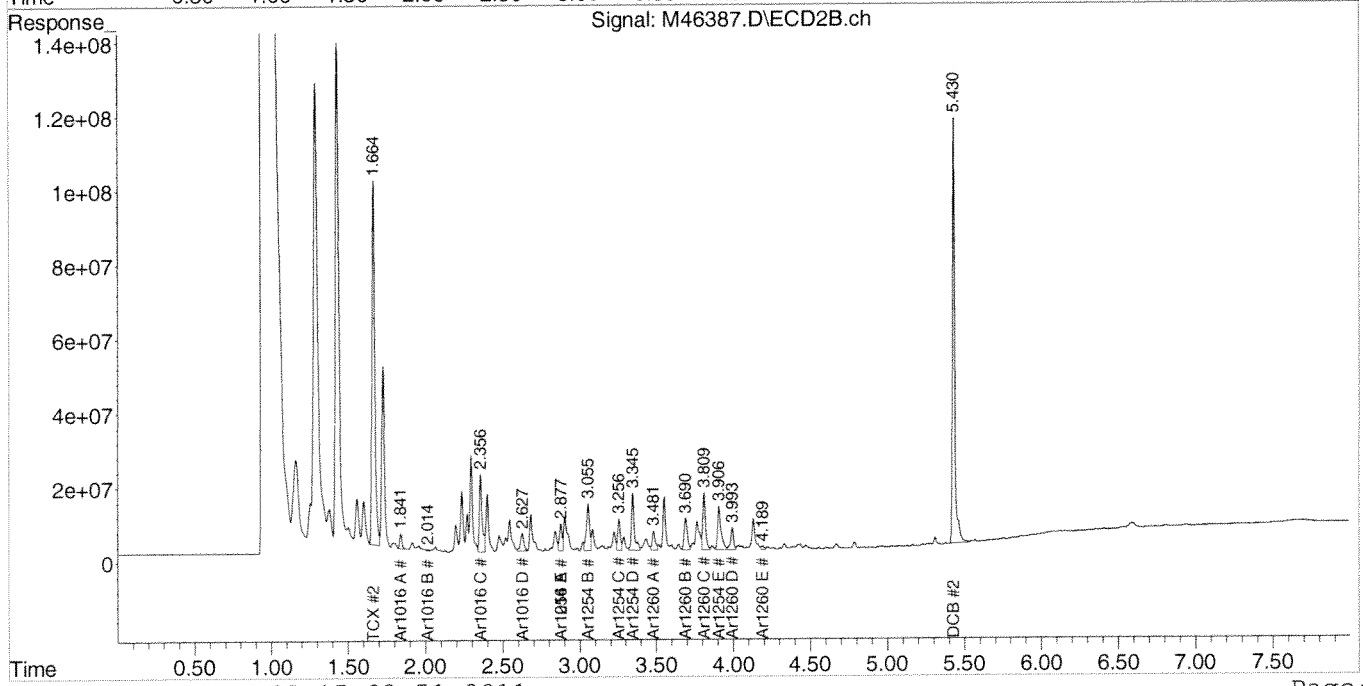
PCB FORM 10

Data Path : C:\msdchem\1\DATA\080411-M\
Data File : M46387.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 5 Aug 2011 5:44 am
Operator : JK
Sample : 70651-5,,A/C
Misc : SOIL
ALS Vial : 74 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 09 15:03:27 2011
Quant Method : C:\msdchem\1\METHODS\PCB080411.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Fri Aug 05 08:08:10 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





PCB
QC FORMS

PCB WIPE
SYSTEM MONITORING COMPOUNDS
SUMMARY

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 70651

	Column #1				Column #2			
SAMPLE ID	SMC 1 (%)	#	SMC 2 (%)	#	SMC 1 (%)	#	SMC 2 (%)	#
B080311PSOXW,,A/C	93		93		84		95	
L080311PSOXW,,A/C	93		91		83		93	
LD080311PSOXW,,A/C	91		92		82		93	
70651-1,,A/C	93		90		87		88	
70651-2,,A/C	97		94		86		102	
70651-3,,A/C	94		96		89		94	
70651-4,,A/C	96		91		85		83	
70651-5,,A/C	86		79		75		78	

		Lower Limit	Upper Limit
SMC #1 =	TCX	40	130
SMC #2 =	DCB	40	130

\# Column to be used to flag recovery values outside of QC limits
* Values outside QC limits
D System Monitoring Compound diluted out

PCB WIPE
LABORATORY CONTROL SAMPLE/DUPLICATE
PERCENT RECOVERY

Instrument ID: M

GC Column #1: STX-CLPesticides I

Column ID: 0.25 mm

GC Column #2: STX-CLPesticides II

Column ID: 0.25 mm

SDG: 70651

Non-spiked sample: B080311PSOXW,,A/C

Spike: L080311PSOXW,,A/C

Spike duplicate: LD080311PSOXW,,A/C

COMPOUND	LCS SPIKE ADDED (ug/wipe)	LCSD SPIKE ADDED (ug/wipe)	LOWER LIMIT	UPPER LIMIT	RPD LIMIT	NON-SPIKE RESULT (ug/wipe)	SPIKE RESULT (ug/wipe)	SPIKE % REC	#	SPIKE DUP RESULT (ug/wipe)	SPIKE DUP % REC	#	RPD	#
PCB 1016	200	200	65	140	30	0	216	108		223	111		3.0	
PCB 1260	200	200	60	130	30	0	196	98		195	97		0.7	
PCB 1016 #2	200	200	65	140	30	0	254	127		252	126		0.8	
PCB 1260 #2	200	200	60	130	30	0	193	97		193	97		0.1	

Column to be used to flag recovery and RPD values outside of QC limits

* Values outside QC limits

LCS/LCSD spike added values have been weight adjusted.

Non-spike result of "0" used in place of "U" to allow calculation of spike recovery.

Comments: _____

_____

CHAIN OF CUSTODIES

Chain Of Custody Form

analytics environmental laboratory LLC

195 Commerce Way, Suite E
Portsmouth, NH 03801
(800) 929-9906

(603) 436-5111
(603) 430-2151 Fax

For Analytics Use Only

Samples were:
1) Shipped or hand-delivered
2) Temperature (°C): 3°
3) Received in good condition: (Y) or N
4) pH checked by: N/A
5) Labels checked by: SHC 8/3/11

Project#: 224164 Proj. Name: USM Gorham
Company: Woodard + Curran
Report to: Amy Wallace, Scott Luzko
Address: 41 Hutchins Dr
Portland, ME 04102
Phone: 207-774-2112
Quote #:
PO# (if required):

Circle and/or Write Required Analysis

Matrix Key:
C = Concrete, WP = Wipe, WW = Wastewater, SW = Surface Water, E = Extract, GW = Groundwater, DW = Drinking Water, S = Soil / Sludge, O = Oil, X = Other

Station Identification	Sample Date	Sample Time	Preservation: Unpres	4° C	HNO_3	H_2SO_4	HCl	Methanol	Other Hexane	Field Filtered? Y or N	VOC: 8260 524.2 624	SVOC: 8270 625 PAH only SIM	Pesticides: 8081 608	PCB: 8082 608 Soxhlet (Y) or N	TPH: 8015DRO 8015GRO 8100M	EPH: Full (includes targets) Ranges only	VPH: Full (includes targets) Ranges only	Metals: RCRA8 PP13 TAL23 Other*	Matrix	No. of Containers	pH checked	Analytics Sample #
UH - VWB - 083	8/2	1050		X					X					X					WP	1		70651-1
UH - VWC - 084	↓	1053		↓					↓					↓					WP	1		-2
UH - VWW - 085		1057																	WP	1		-3
UH - VWW - 086		1100																	WP	1		-4
UH - VWD - 087		1104																	WP	1		-5

Email Results to:
slezko@woodardcurran.com
awallace@woodardcurran.com

Turnaround Time (TAT)
- [ ] 24 Hours*
- [ ] 48 Hours*
- [ ] 72 Hours*
- [x] 5 Days*
- [ ] 10 Days

*Fee may apply; lab approval required

Comments, Additional Analyses, or Special Instructions: * List requested metals here

PCBs via USEPA Method 8082 w/soxhlet ext.

R.L. ≤ 1.0 mg/wipe

Project Requirements:
*Fee may apply

Report Type:
- [ ] MCP*
- [ ] CTRCP*
- [ ] DOD*
- [x] Level II*
- [ ] Level III*
- [ ] Level IV*
- [ ] Standard

State:
- [ ] NH
- [ ] MA
- [x] ME
- [ ] CT
- [ ] RI
- Other:

State Standard: (eg. S-1 or GW-1)

EDD Required: Y* N

Type: PDF

Sampler Name (Print): Scott Luzko

Relinquished By Sampler: [signature]	Date: 8/3/11	Time: 9:30	Received By: Cold Storage for Pickup	
Relinquished By: Cold Storage for Pick up	Date: 8/3/11	Time: 954	Received By: [signature]	
Relinquished By:	Date:	Time:	Received By:	

Page ____ of ____

ANALYTICS SAMPLE RECEIPT CHECKLIST

analytics environmental laboratory LLC

AEL LAB#: 70651

CLIENT: Woodard

PROJECT: USM Gorham

COOLER NUMBER: 184

NUMBER OF COOLERS: 1

DATE RECEIVED: 8/3/11

A: PRELIMINARY EXAMINATION:

DATE COOLER OPENED: 8/3/11

1. Cooler received by(initials): DW

Date Received: 8/3/11

2. Circle one: Hand delivered (If so, skip 3) Shipped

3. Did cooler come with a shipping slip? Y N/A

3a. Enter carrier name and airbill number here: _____

4. Were custody seals on the outside of cooler? Y N

How many & where: _____ Seal Date: _____ Seal Name: _____

5. Did the custody seals arrive unbroken and intact upon arrival? Y N/A

6. COC#: _____

7. Were Custody papers filled out properly (ink,signed, etc)? Y N

8. Were custody papers sealed in a plastic bag? Y N

9. Did you sign the COC in the appropriate place? Y N

10. Was the project identifiable from the COC papers? Y N

11. Was enough ice used to chill the cooler? Y N Temp. of cooler: 3°

B. Log-In: Date samples were logged in: 8/3/11 By: JBD

12. Type of packing in cooler(bubble wrap, popcorn) Y N

13. Were all bottles sealed in separate plastic bags? Y N

14. Did all bottles arrive unbroken and were labels in good condition? Y N

15. Were all bottle labels complete(ID,Date,time,etc.) Y N

16. Did all bottle labels agree with custody papers? Y N

17. Were the correct containers used for the tests indicated: Y N

18. Were samples received at the correct pH? Y N/A

19. Was sufficient amount of sample sent for the tests indicated? Y N

20. Were all samples submitted within holding time? Y N

21. Were bubbles absent in VOA samples? Y N/A

If NO, List Sample ID's and Lab #s: _____

22. Laboratory labeling verified by (initials): SHC Date: 8/3/11

analytics environmental laboratory LLC

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800-929-9906
www.analyticslab.com

August 17, 2011

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

RE: Analytical Results Case Narrative
Analytics # 70720
USM Gorham Proj# 224164

Dear Ms. Wallace;

Enclosed please find the analytical results for samples submitted for the above-mentioned project. The attached Cover Page lists the sample IDs, Lab tracking numbers and collection dates for the samples included in this deliverable.

Samples were analyzed for Polychlorinated Biphenyls (PCBs) by EPA Method 8082.

Unless otherwise noted in the Non-conformance Summary listed below, all of the quality control (QC) criteria including initial calibration, calibration verification, surrogate recovery, holding time and method accuracy/precision for these analyses were within acceptable limits.

This Level II data package has been assembled in the following order:

Case Narrative/Non-Conformance Summary
Sample Log Sheet - Cover Page
PCB Form 1 Data Sheet for Samples and Blanks
Chromatograms
PCB Form 10 Confirmation Results
PCB Form 3 MS/MSD (LCS) Recoveries
Chain of Custody (COC) Forms

QC NON-CONFORMANCE SUMMARY

Sample Receipt:
No QC exceptions.

PCBs by EPA Method 8082:
No results were reported below the quantitation limit.

If you have any questions on these results, please do not hesitate to contact me.

Sincerely,
ANALYTICS Environmental Laboratory, LLC

Stephen L. Knollmeyer
Laboratory Director

analytics environmental laboratory LLC

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Portsmouth, New Hampshire 03801
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800-929-9906
www.analyticslab.com

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

Report Number: 70720

Revision: Rev. 0

Re: USM Gorham (Project No: 224164)

Enclosed are the results of the analyses on your sample(s). Samples were received on 12 August 2011 and analyzed for the tests listed. Samples were received in acceptable condition, with the exceptions noted below or on the chain of custody. These results pertain to samples as received by the laboratory and for the analytical tests requested on the chain of custody. The results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. Please see individual reports for specific methodologies and references.

Lab Number	Sample Date	Station Location	Analysis	Comments
70720-1	08/12/11	UH-VWB-088	EPA 8082 (PCBs only)	
70720-2	08/12/11	UH-VWB-089	EPA 8082 (PCBs only)	
70720-3	08/12/11	UH-VWBD-090	EPA 8082 (PCBs only)	
70720-4	08/12/11	UH-VWBQ-091	EPA 8082 (PCBs only)	

Sample Receipt Exceptions: None

Analytics Environmental Laboratory is certified by the states of New Hampshire, Maine, Massachusetts, Connecticut, Rhode Island, Virginia, Maryland, and North Carolina, and is accredited by the Deparment of Defense (DOD) ELAP program. A list of actual certified parameters is available upon request.

If you have any questions on these results, please do not hesitate to contact us.

Authorized signature _____
Stephen L. Knollmeyer Lab. Director

Date 8/18/2011

This report shall not be reproduced, except in full, without the written consent of Analytics Environmental Laboratory, LLC.

Surrogate Compound Limits

Matrix:	Aqueous	Solid	
Units:	% Recovery	% Recovery	Method
Volatile Organic Compounds - Drinking Water			
1,4-Difluorobenzene	70-130		EPA 524.2
Bromofluorobenzene	70-130		
1,2-Dichlorobenzene-d4	70-130		
Volatile Organic Compounds			
1,2-Dichloroethane-d4	70-120	70-120	EPA 624/8260B
Toluene-d8	85-120	85-120	
Bromofluorobenzene	75-120	75-120	
Semi-Volatile Organic Compounds			
2-Fluorophenol	20-110	35-105	EPA 625/8270C
d5-Phenol	15-110	40-100	
d5-nitrobenzene	40-110	35-100	
2-Fluorobiphenyl	50-110	45-105	
2,4,6-Tribromophenol	40-110	40-125	
d14-p-terphenyl	50-130	30-125	
PAH's by SIM			
d5-nitrobenzene	21-110	35-110	EPA 8270C
2-Fluorobiphenyl	36-121	45-105	
d14-p-terphenyl	33-141	30-125	
Pesticides and PCBs			
2,4,5,6-Tetrachloro-m-xylene (TCX)	46-122	40-130	EPA 608/8082
Decachlorobiphenyl (DCB)	40-135	40-130	
Herbicides			
Dichloroacetic acid (DCAA)	30-150	30-150	
Gasoline Range Organics/TPH Gasoline			
Trifluorotoluene TFT (FID)	60-140	60-140	MEDEP 4217/EPA 8015
Bromofluorobenzene (BFB) (FID)	60-140	60-140	
Trifluorotoluene TFT (PID)	60-140	60-140	
Bromofluorobenzene (BFB) (PID)	60-140	60-140	
Diesel Range Organics/TPH Diesel			
m-terphenyl	60-140	60-140	MEDEP 4125/EPA 8015/CT ETPH
Volatile Petroleum Hydrocarbons			
2,5-Dibromotoluene (PID)	70-130	70-130	MADEP VPH May 2004 Rev1.1
2,5-Dibromotoluene (FID)	70-130	70-130	
Extracatable Petroleum Hydrocarbons			
1-chloro-octadecane (aliphatic)	40-140	40-140	MADEP EPH May 2004 Rev1.1
o-Terphenyl (aromatic)	40-140	40-140	
2-Fluorobiphenyl (Fractionation)	40-140	40-140	
2-Bromonaphthalene (fractionation)	40-140	40-140	

PCB
DATA SUMMARIES

analytics environmental laboratory LLC

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800-929-9906

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

August 17, 2011

SAMPLE DATA

Lab Sample ID: B081411PSOX2
Matrix: Wipe
Percent Solid: N/A
Dilution Factor: 1.0
Collection Date:
Lab Receipt Date:
Extraction Date: 08/15/11
Analysis Date: 08/15/11

CLIENT SAMPLE ID

Project Name: USM Gorham
Project Number: 224164
Field Sample ID: Lab QC

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	U
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	87	%
Decachlorobiphenyl	75	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

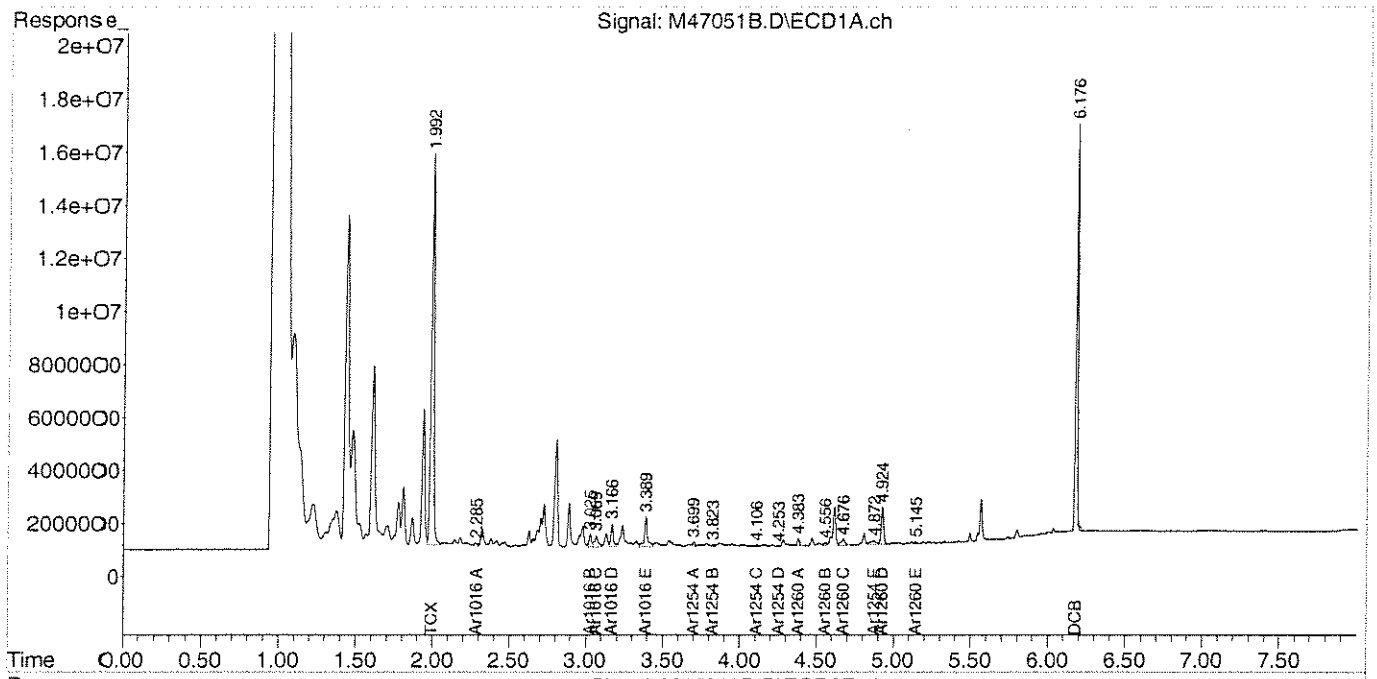
PCB Report

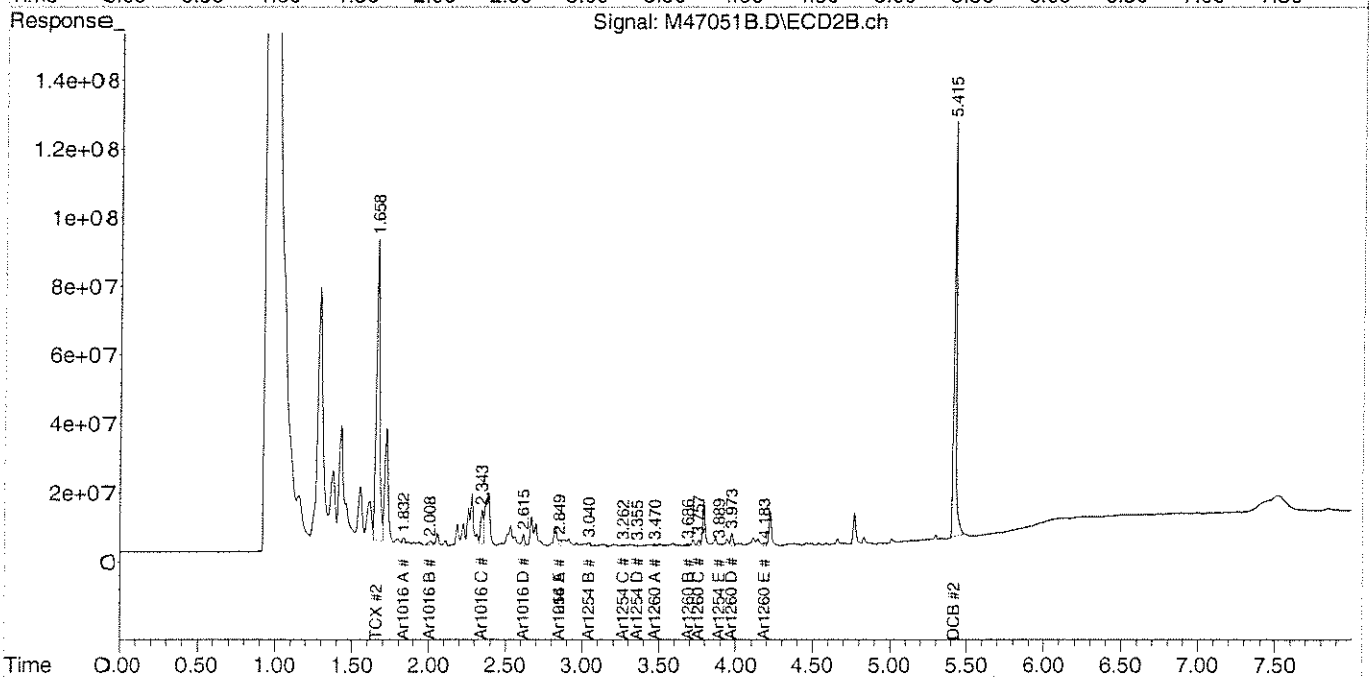
Authorized signature

Data Path : C:\msdchem\1\DATA\081511-M\
Data File : M47051B.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2011 8:53 pm
Operator : JK
Sample : B081411PSOX2,,A/C
Misc : SOIL
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 16 15:30:58 2011
Quant Method : C:\msdchem\1\METHODS\PCB080411.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Sat Aug 13 02:54:26 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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Ms. Amy Wallace
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41 Hutchins Drive
Portland ME 04102

August 17, 2011

SAMPLE DATA

Lab Sample ID: 70720-1
Matrix: Wipe
Percent Solid: N/A
Dilution Factor: 1.0
Collection Date: 08/12/11
Lab Receipt Date: 08/12/11
Extraction Date: 08/14/11
Analysis Date: 08/15/11

CLIENT SAMPLE ID

Project Name: USM Gorham
Project Number: 224164
Field Sample ID: UH-VWB-088

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	U
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	90	%
Decachlorobiphenyl	76	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

PCB Report

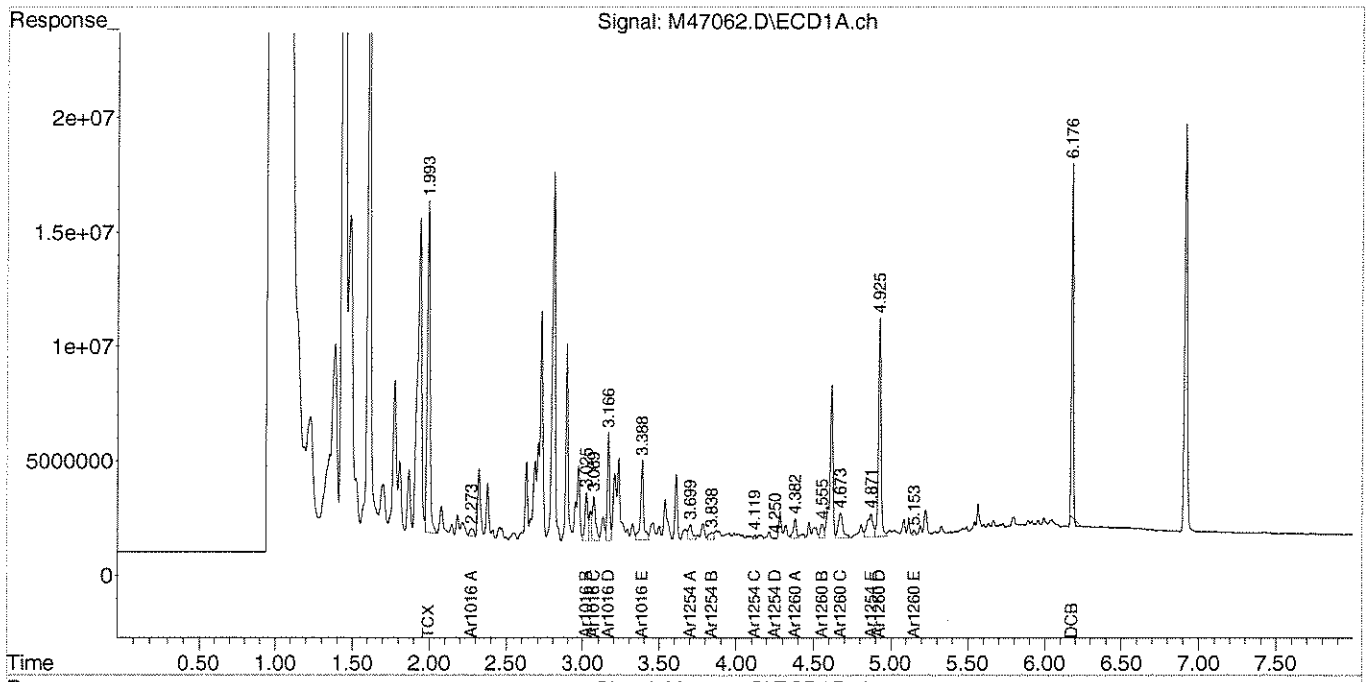
Authorized signature

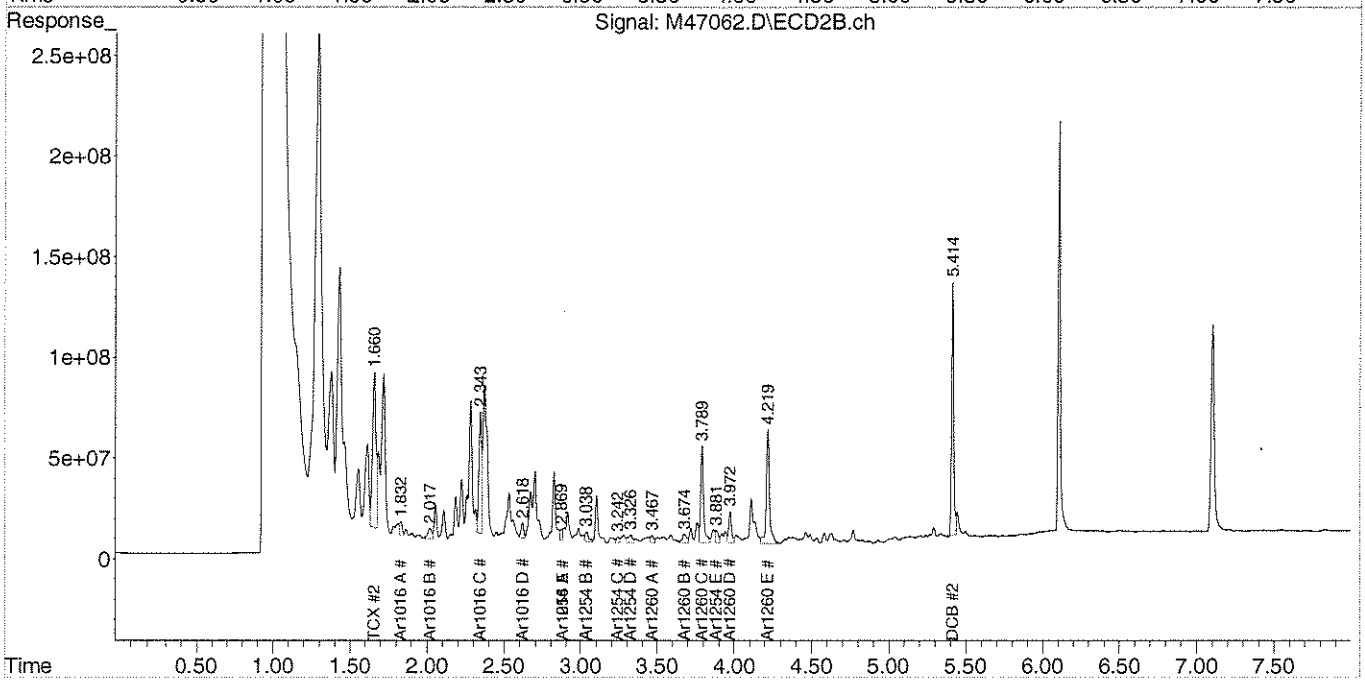
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\081511-M\
Data File : M47062.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2011 10:44 pm
Operator : JK
Sample : 70720-1,,A/C
Misc : SOIL
ALS Vial : 40 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 16 15:31:20 2011
Quant Method : C:\msdchem\1\METHODS\PCB080411.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Thu Aug 11 23:01:01 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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Portland ME 04102

August 17, 2011

SAMPLE DATA

Lab Sample ID: 70720-2
Matrix: Wipe
Percent Solid: N/A
Dilution Factor: 1.0
Collection Date: 08/12/11
Lab Receipt Date: 08/12/11
Extraction Date: 08/14/11
Analysis Date: 08/15/11

CLIENT SAMPLE ID

Project Name: USM Gorham
Project Number: 224164
Field Sample ID: UH-VWB-089

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	U
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	99	%
Decachlorobiphenyl	79	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

PCB Report

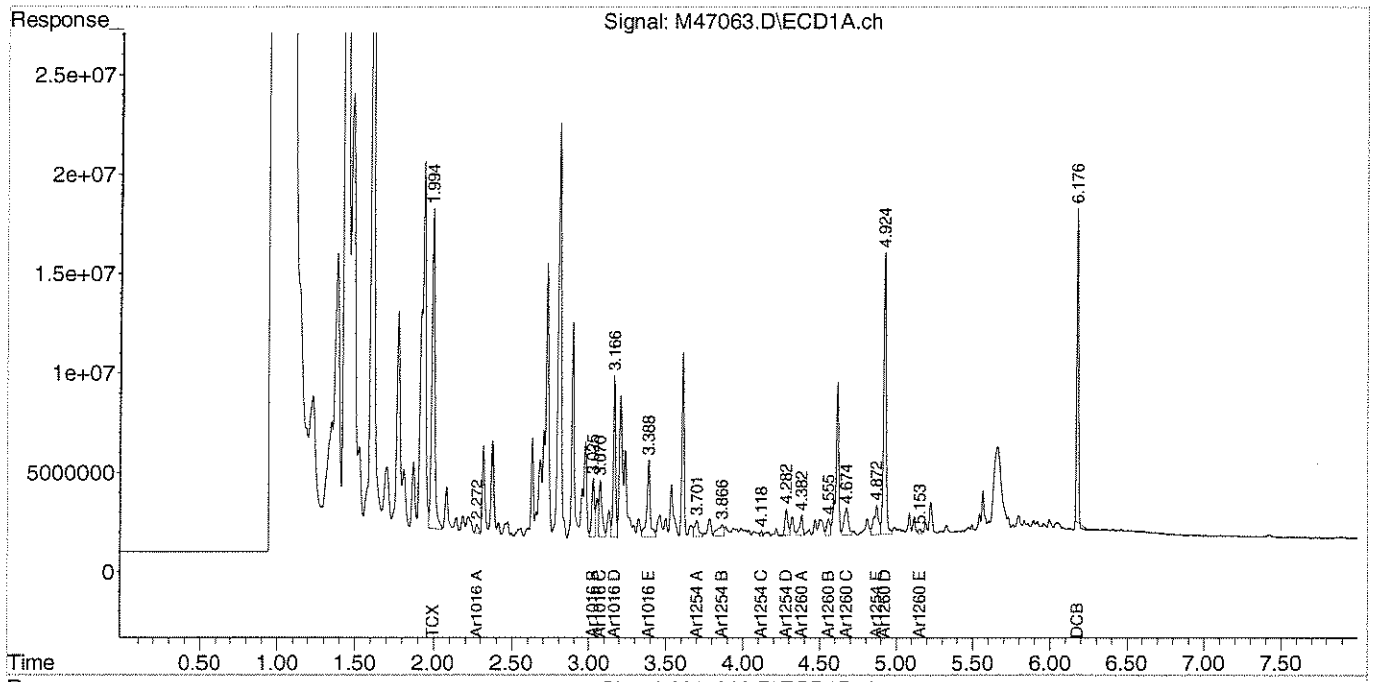
Authorized signature

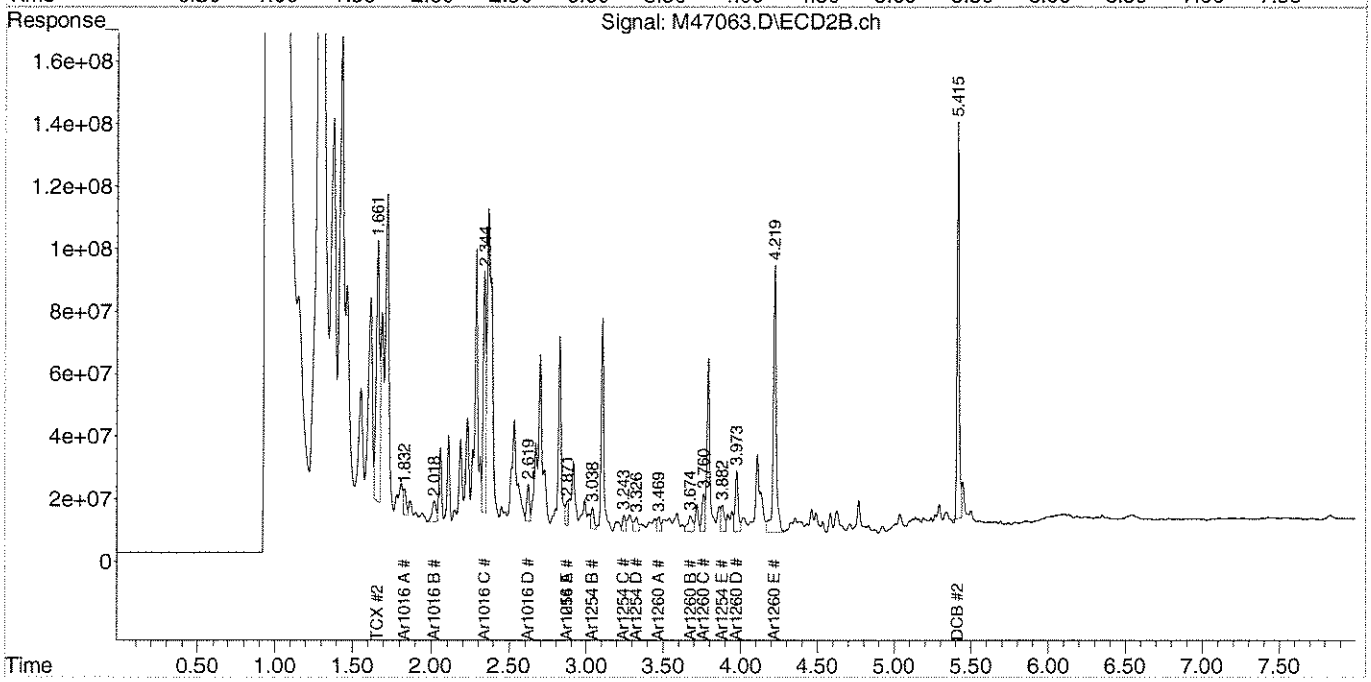
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\081511-M\
Data File : M47063.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2011 10:54 pm
Operator : JK
Sample : 70720-2,,A/C
Misc : SOIL
ALS Vial : 41 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 16 15:31:22 2011
Quant Method : C:\msdchem\1\METHODS\PCB080411.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Thu Aug 11 23:01:01 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





analytics environmental laboratory LLC

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Ms. Amy Wallace
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41 Hutchins Drive
Portland ME 04102

August 17, 2011

SAMPLE DATA

Lab Sample ID: 70720-3
Matrix: Wipe
Percent Solid: N/A
Dilution Factor: 1.0
Collection Date: 08/12/11
Lab Receipt Date: 08/12/11
Extraction Date: 08/14/11
Analysis Date: 08/15/11

CLIENT SAMPLE ID

Project Name: USM Gorham
Project Number: 224164
Field Sample ID: UH-VWBD-090

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	U
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	91	%
Decachlorobiphenyl	78	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

PCB Report

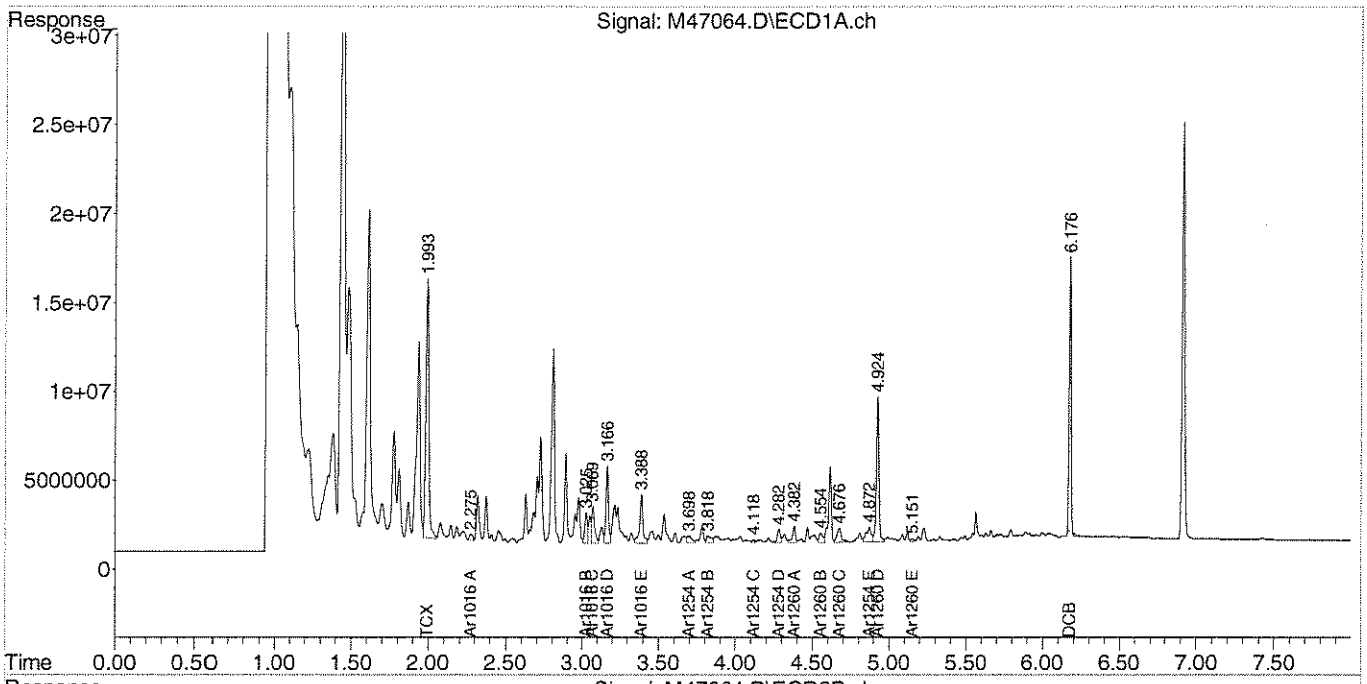
Authorized signature

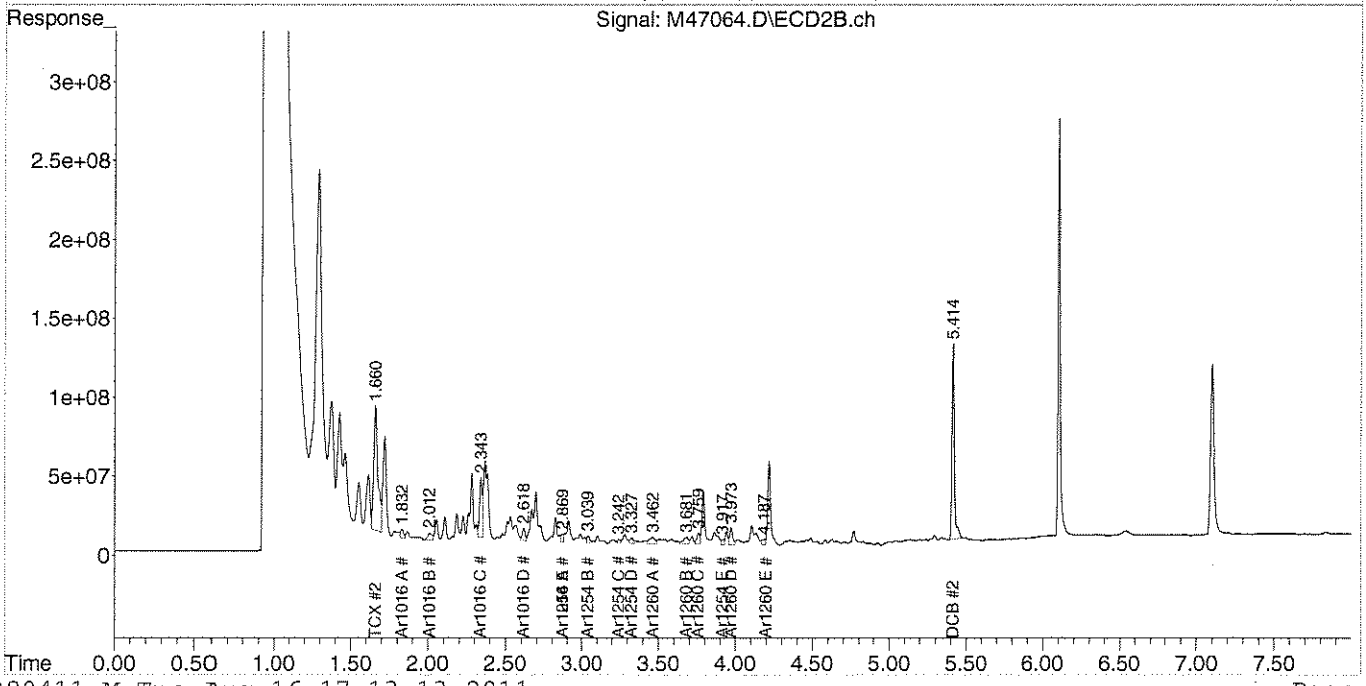
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\081511-M\
Data File : M47064.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2011 11:04 pm
Operator : JK
Sample : 70720-3,,A/C
Misc : SOIL
ALS Vial : 42 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 16 15:31:24 2011
Quant Method : C:\msdchem\1\METHODS\PCB080411.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Thu Aug 11 23:01:01 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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Ms. Amy Wallace
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Portland ME 04102

August 17, 2011

SAMPLE DATA

Lab Sample ID: 70720-4
Matrix: Wipe
Percent Solid: N/A
Dilution Factor: 1.0
Collection Date: 08/12/11
Lab Receipt Date: 08/12/11
Extraction Date: 08/14/11
Analysis Date: 08/15/11

CLIENT SAMPLE ID

Project Name: USM Gorham
Project Number: 224164
Field Sample ID: UH-VWBQ-091

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	U
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	94	%
Decachlorobiphenyl	78	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

PCB Report

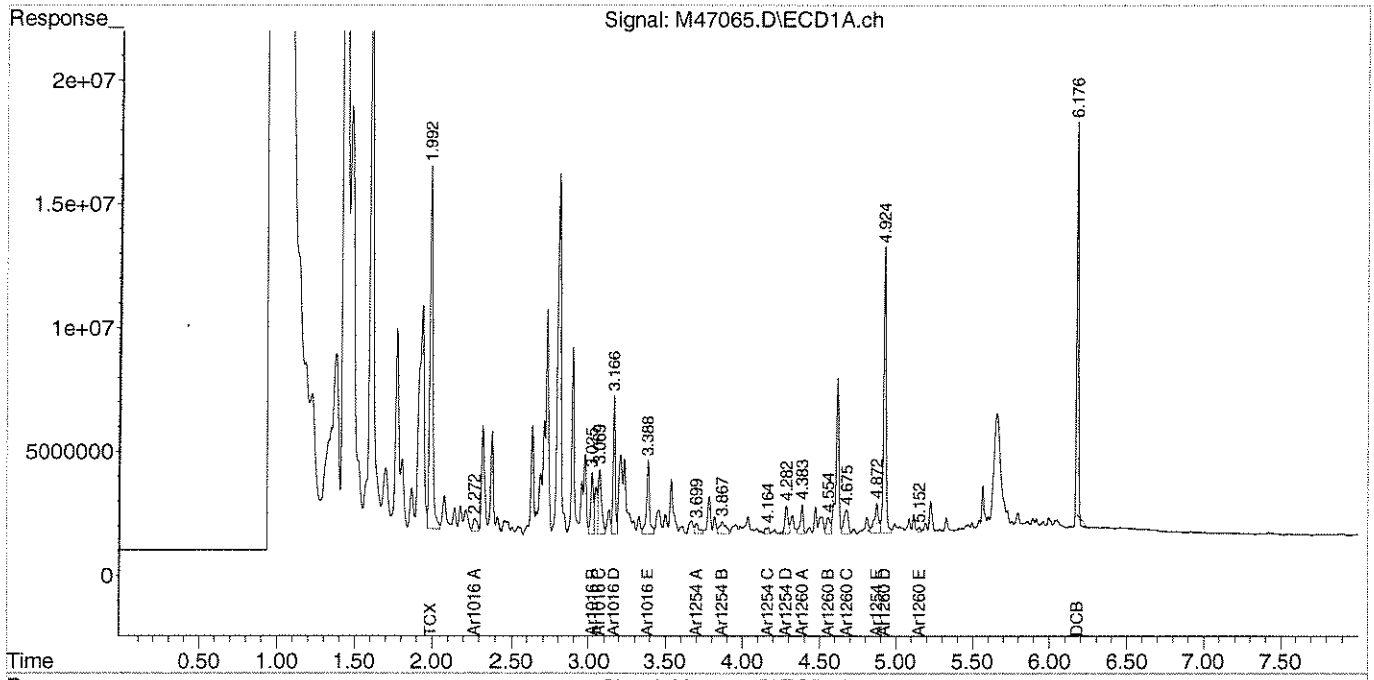
Authorized signature

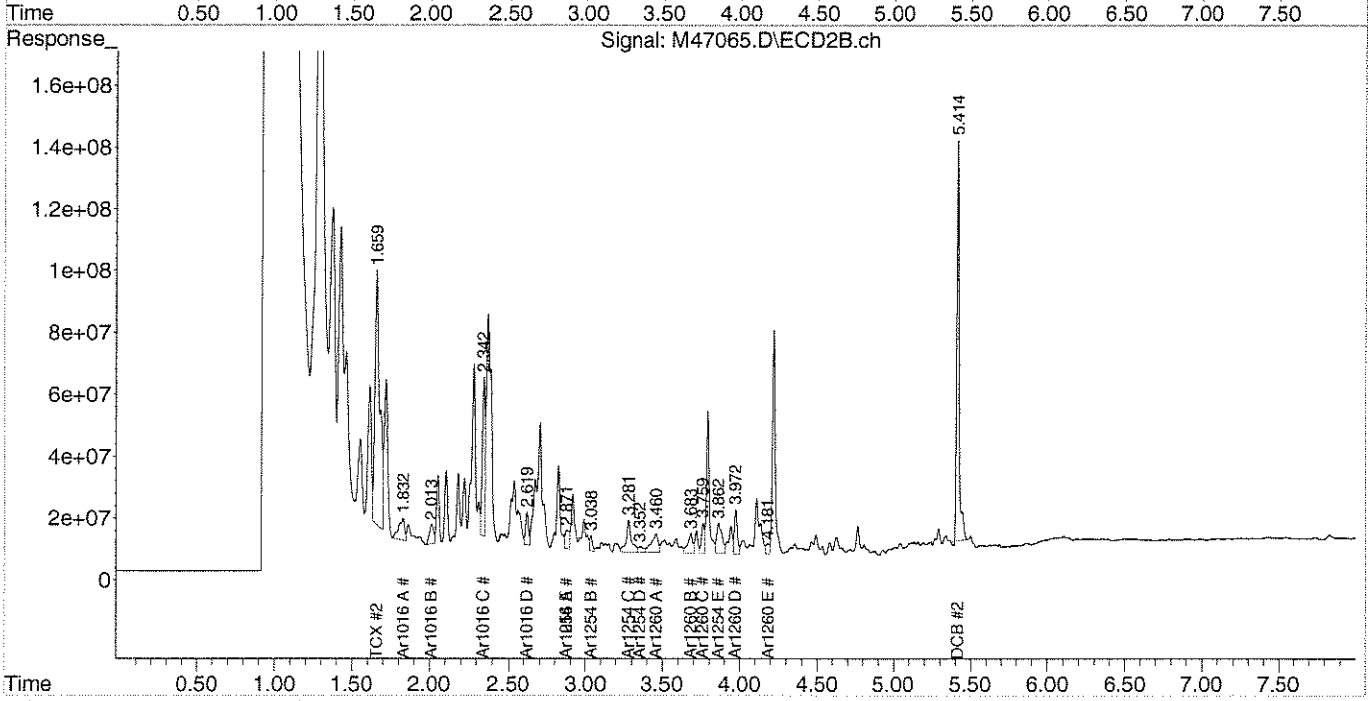
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\081511-M\
Data File : M47065.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Aug 2011 11:14 pm
Operator : JK
Sample : 70720-4,,A/C
Misc : SOIL
ALS Vial : 43 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 16 15:31:26 2011
Quant Method : C:\msdchem\1\METHODS\PCB080411.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Thu Aug 11 23:01:01 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





PCB
QC FORMS

AnalyticsLLC:AEL Documents LLC:Pkg Dividers:PCBQC.doc

PCB WIPE
SYSTEM MONITORING COMPOUNDS
SUMMARY

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 70720

	Column #1				Column #2			
SAMPLE ID	SMC 1 (%)	#	SMC 2 (%)	#	SMC 1 (%)	#	SMC 2 (%)	#
B081411PSOX2,,A/C	87		75		79		81	
L081411PSOX2W,,A/C	90		75		78		86	
LD081411PSOX2W,,A/C	95		78		76		89	
70720-1,,A/C	90		76		71		79	
70720-2,,A/C	99		79		69		81	
70720-3,,A/C	91		78		84		84	
70720-4,,A/C	94		78		101		89	

		Lower Limit	Upper Limit
SMC #1 =	TCX	40	130
SMC #2 =	DCB	40	130

Column to be used to flag recovery values outside of QC limits
* Values outside QC limits
D System Monitoring Compound diluted out

PCB WIPE
LABORATORY CONTROL SAMPLE/DUPLICATE
PERCENT RECOVERY

Instrument ID: M

GC Column #1: STX-CLPesticides I

Column ID: 0.25 mm

GC Column #2: STX-CLPesticides II

Column ID: 0.25 mm

SDG: 70720

Non-spiked sample: B081411PSOX2,,A/C

Spike: L081411PSOX2W,,A/C

Spike duplicate: LD081411PSOX2W,,A/C

COMPOUND	LCS SPIKE ADDED (ug/wipe)	LCSD SPIKE ADDED (ug/wipe)	LOWER LIMIT	UPPER LIMIT	RPD LIMIT	NON-SPIKE RESULT (ug/wipe)	SPIKE RESULT (ug/wipe)	SPIKE % REC	#	SPIKE DUP RESULT (ug/wipe)	SPIKE DUP % REC	#	RPD	#
PCB 1016	200	200	65	140	30	0	220	110		234	117		6.1	
PCB 1260	200	200	60	130	30	0	215	107		236	118		9.4	
PCB 1016 #2	200	200	65	140	30	0	223	111		233	117		4.5	
PCB 1260 #2	200	200	60	130	30	0	188	94		186	93		1.0	

Column to be used to flag recovery and RPD values outside of QC limits

* Values outside QC limits

LCS/LCSD spike added values have been weight adjusted.

Non-spike result of "0" used in place of "U" to allow calculation of spike recovery.

Comments: _____

_____

PCB FORM 3

analytics environmental laboratory LLC

CHAIN OF CUSTODIES

Chain Of Custody Form

analytics environmental laboratory LLC

195 Commerce Way Suite E
Portsmouth, NH 03801
Phone (603) 436-5111
Fax (603) 430-2151

For Analytics Use Only Rev. 5 06/18/08

Samples were:
1) Shipped or hand-delivered
2) Temp blank °C 3.0
3) Received in good condition (Y) or N
4) pH checked by: NA
5) Labels checked by: CR 8/12/11

Project#: 224164 Proj. Name: USM Gorham
Company: Woodard &Curran
Contact: Amy Wallace
Address: 41 Hutchins Drive
Portland, ME
Phone: (207)774-2112 PO# Quote #
Sampler (Signature): Amy Wallace

Matrix Key:
C = Concrete
WP = Wipe
WW = Wastewater
SW = Surface Water
GW = Groundwater
DW = Drinking Water
S = Soil/Sludge
O = Oil
E = Extract
X = Other

Container Key
P=plastic G=glass

Station Identification	Sample Date	Sample Time	Analysis	Unpres	4° C	HNO_3	H_2SO_4	HCL	Methanol	Other	Matrix	Container number/type		pH	Analytics Sample #
UH-VWB-088	8/12/11	8:00	PCB							X	WP	1	G		70720-1
UH-VWB-089	↓	8:03	↓							X	WP	1	G		-2
UH-VWBD-090		8:03								X	WP	1	G		-3
UH-VWBQ-091		8:05								X	WP	1	G		-4

SHC 8/12/11

Received By: Time: 11:05 Date: 8/12/11
Received By: SHC 8/12/11 Time: Date:
Received By: Time: Date:

Relinquished By Sampler: Amy Wallace
Relinquished By: Time:
Relinquished By: Time:

Email Results to:
awallace@woodardcurran.com
sluczka@

Comments / Instructions:
Soxhlet / 8082

Turnaround Time (TAT)
☐ 24hr* ☐ 48hr*
☐ 72hr* ☒ 5 Days*
☐ 10 Days
*Fee may apply; lab approval required

Project Requirements:
*Fee may apply

Report Type:
☐ MCP* ☒ Level II*
☐ CTRCP* ☐ Level III*
☐ DOD* ☐ Level IV*
☐ Standard

State:
☐ NH
☐ MA
☒ ME
☐ CT
☐ RI
Other:

State Standard:
(eg. S-1 or GW-1)
EDD Required: Y* (N)
Type: PDF

Page 1 of 1

Analytics\AEL Documents\AEL COC

ANALYTICS SAMPLE RECEIPT CHECKLIST

analytics environmental laboratory LLC

AEL LAB#: 70720

CLIENT: Woodard

PROJECT: USM Gorham

COOLER NUMBER: AEL 235

NUMBER OF COOLERS: 1

DATE RECEIVED: 8/12/11

A: PRELIMINARY EXAMINATION:

DATE COOLER OPENED: 8/12/11

1. Cooler received by(initials): SHC

Date Received: 8/12/11

2. Circle one: Hand delivered (If so, skip 3) Shipped

3. Did cooler come with a shipping slip? Y N

3a. Enter carrier name and airbill number here:

4. Were custody seals on the outside of cooler? Y N
How many & where: Seal Date: Seal Name:

5. Did the custody seals arrive unbroken and intact upon arrival? Y N/A

6. COC#:

7. Were Custody papers filled out properly (ink,signed, etc)? Y N

8. Were custody papers sealed in a plastic bag? Y N

9. Did you sign the COC in the appropriate place? Y N

10. Was the project identifiable from the COC papers? Y N

11. Was enough ice used to chill the cooler? Y N Temp. of cooler: 3.0

B. Log-In: Date samples were logged in: 8/12/11 By: SHC

12. Type of packing in cooler(bubble wrap, popcorn) Y N

13. Were all bottles sealed in separate plastic bags? Y N

14. Did all bottles arrive unbroken and were labels in good condition? Y N

15. Were all bottle labels complete(ID,Date,time,etc.) Y N

16. Did all bottle labels agree with custody papers? Y N

17. Were the correct containers used for the tests indicated: Y N

18. Were samples received at the correct pH? Y N/A

19. Was sufficient amount of sample sent for the tests indicated? Y N

20. Were all samples submitted within holding time? Y N

21. Were bubbles absent in VOA samples? Y N/A

If NO, List Sample ID's and Lab #s:

22. Laboratory labeling verified by (initials): CP Date: 8/12/11

analytics environmental laboratory LLC

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August 23, 2011

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

RE: Analytical Results Case Narrative
Analytics # 70765
USM Gorham Proj# 224164

Dear Ms. Wallace;

Enclosed please find the analytical results for samples submitted for the above-mentioned project. The attached Cover Page lists the sample IDs, Lab tracking numbers and collection dates for the samples included in this deliverable.

Samples were analyzed for Polychlorinated Biphenyls (PCBs) by EPA Method 8082.

Unless otherwise noted in the Non-conformance Summary listed below, all of the quality control (QC) criteria including initial calibration, calibration verification, surrogate recovery, holding time and method accuracy/precision for these analyses were within acceptable limits.

This Level II data package has been assembled in the following order:

Case Narrative/Non-Conformance Summary
Sample Log Sheet - Cover Page
PCB Form 1 Data Sheet for Samples and Blanks
Chromatograms
PCB Form 10 Confirmation Results
PCB Form 3 MS/MSD (LCS) Recoveries
Chain of Custody (COC) Forms

QC NON-CONFORMANCE SUMMARY

Sample Receipt:
No QC exceptions.

PCBs by EPA Method 8082:
No results were reported below the quantitation limit.

If you have any questions on these results, please do not hesitate to contact me.

Sincerely,
ANALYTICS Environmental Laboratory, LLC

Stephen L. Knollmeyer
Laboratory Director

analytics environmental laboratory LLC

195 Commerce Way Suite E
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906
www.analyticslab.com

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

Report Number: 70765

Revision: Rev. 0

Re: USM Gorham (Project No: 224164)

Enclosed are the results of the analyses on your sample(s). Samples were received on 19 August 2011 and analyzed for the tests listed. Samples were received in acceptable condition, with the exceptions noted below or on the chain of custody. These results pertain to samples as received by the laboratory and for the analytical tests requested on the chain of custody. The results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. Please see individual reports for specific methodologies and references.

Lab Number	Sample Date	Station Location	Analysis	Comments
70765-1	08/18/11	UH-VWD-094	EPA 8082 (PCBs only)	
70765-2	08/18/11	AH-VWE-092	EPA 8082 (PCBs only)	
70765-3	08/18/11	AH-VWE-093	EPA 8082 (PCBs only)	

Sample Receipt Exceptions: None

Analytics Environmental Laboratory is certified by the states of New Hampshire, Maine, Massachusetts, Connecticut, Rhode Island, Virginia, Maryland, and North Carolina, and is accredited by the Deparment of Defense (DOD) ELAP program. A list of actual certified parameters is available upon request.

If you have any questions on these results, please do not hesitate to contact us.

Authorized signature _____
Stephen L. Knollmeyer Lab. Director

Date 8/23/2011

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analytics

Surrogate Compound Limits

Matrix:	Aqueous	Solid	
Units:	% Recovery	% Recovery	Method
Volatile Organic Compounds - Drinking Water			
1,4-Difluorobenzene	70-130		EPA 524.2
Bromofluorobenzene	70-130		
1,2-Dichlorobenzene-d4	70-130		
Volatile Organic Compounds			
1,2-Dichloroethane-d4	70-120	70-120	EPA 624/8260B
Toluene-d8	85-120	85-120	
Bromofluorobenzene	75-120	75-120	
Semi-Volatile Organic Compounds			
2-Fluorophenol	20-110	35-105	EPA 625/8270C
d5-Phenol	15-110	40-100	
d5-nitrobenzene	40-110	35-100	
2-Fluorobiphenyl	50-110	45-105	
2,4,6-Tribromophenol	40-110	40-125	
d14-p-terphenyl	50-130	30-125	
PAH's by SIM			
d5-nitrobenzene	21-110	35-110	EPA 8270C
2-Fluorobiphenyl	36-121	45-105	
d14-p-terphenyl	33-141	30-125	
Pesticides and PCBs			
2,4,5,6-Tetrachloro-m-xylene (TCX)	46-122	40-130	EPA 608/8082
Decachlorobiphenyl (DCB)	40-135	40-130	
Herbicides			
Dichloroacetic acid (DCAA)	30-150	30-150	
Gasoline Range Organics/TPH Gasoline			
Trifluorotoluene TFT (FID)	60-140	60-140	MEDEP 4217/EPA 8015
Bromofluorobenzene (BFB) (FID)	60-140	60-140	
Trifluorotoluene TFT (PID)	60-140	60-140	
Bromofluorobenzene (BFB) (PID)	60-140	60-140	
Diesel Range Organics/TPH Diesel			
m-terphenyl	60-140	60-140	MEDEP 4125/EPA 8015/CT ETPH
Volatile Petroleum Hydrocarbons			
2,5-Dibromotoluene (PID)	70-130	70-130	MADEP VPH May 2004 Rev1.1
2,5-Dibromotoluene (FID)	70-130	70-130	
Extracatable Petroleum Hydrocarbons			
1-chloro-octadecane (aliphatic)	40-140	40-140	MADEP EPH May 2004 Rev1.1
o-Terphenyl (aromatic)	40-140	40-140	
2-Fluorobiphenyl (Fractionation)	40-140	40-140	
2-Bromonaphthalene (fractionation)	40-140	40-140	

PCB
DATA SUMMARIES

analytics environmental laboratory LLC

195 Commerce Way
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Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

August 23, 2011

SAMPLE DATA

Lab Sample ID: B081911PSOX2
Matrix: Wipe
Percent Solid: N/A
Dilution Factor: 1.0
Collection Date:
Lab Receipt Date:
Extraction Date: 08/19/11
Analysis Date: 08/22/11

CLIENT SAMPLE ID

Project Name: USM Gorham
Project Number: 224164
Field Sample ID: Lab QC

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	U
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	100	%
Decachlorobiphenyl	91	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

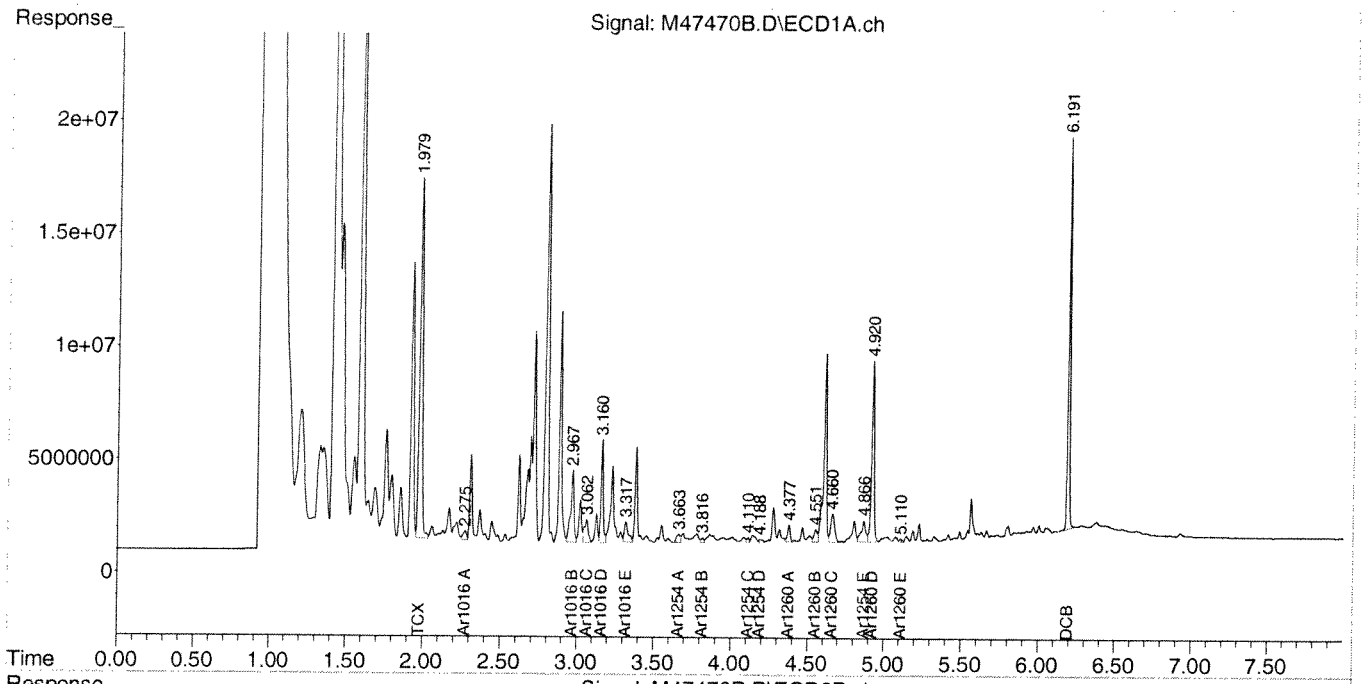
PCB Report

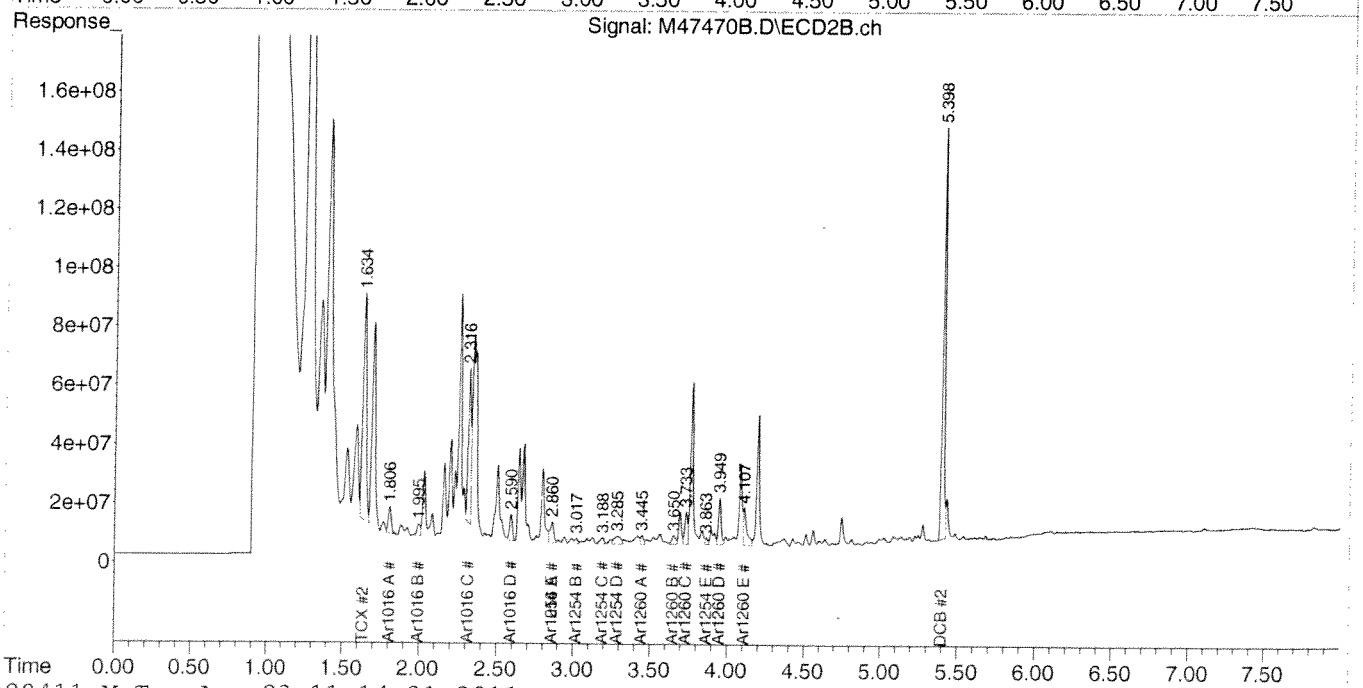
Authorized signature

Data Path : C:\msdchem\1\DATA\082211-M\
Data File : M47470B.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Aug 2011 1:14 pm
Operator : JK
Sample : B081911PSOX2,,A/C
Misc : SOIL
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 23 10:10:21 2011
Quant Method : C:\msdchem\1\METHODS\PCB080411.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Tue Aug 23 09:00:20 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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41 Hutchins Drive
Portland ME 04102

August 23, 2011

SAMPLE DATA

Lab Sample ID: 70765-1
Matrix: Wipe
Percent Solid: N/A
Dilution Factor: 1.0
Collection Date: 08/18/11
Lab Receipt Date: 08/19/11
Extraction Date: 08/19/11
Analysis Date: 08/22/11

CLIENT SAMPLE ID

Project Name: USM Gorham
Project Number: 224164
Field Sample ID: UH-VWD-094

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	U
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	90	%
Decachlorobiphenyl	78	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

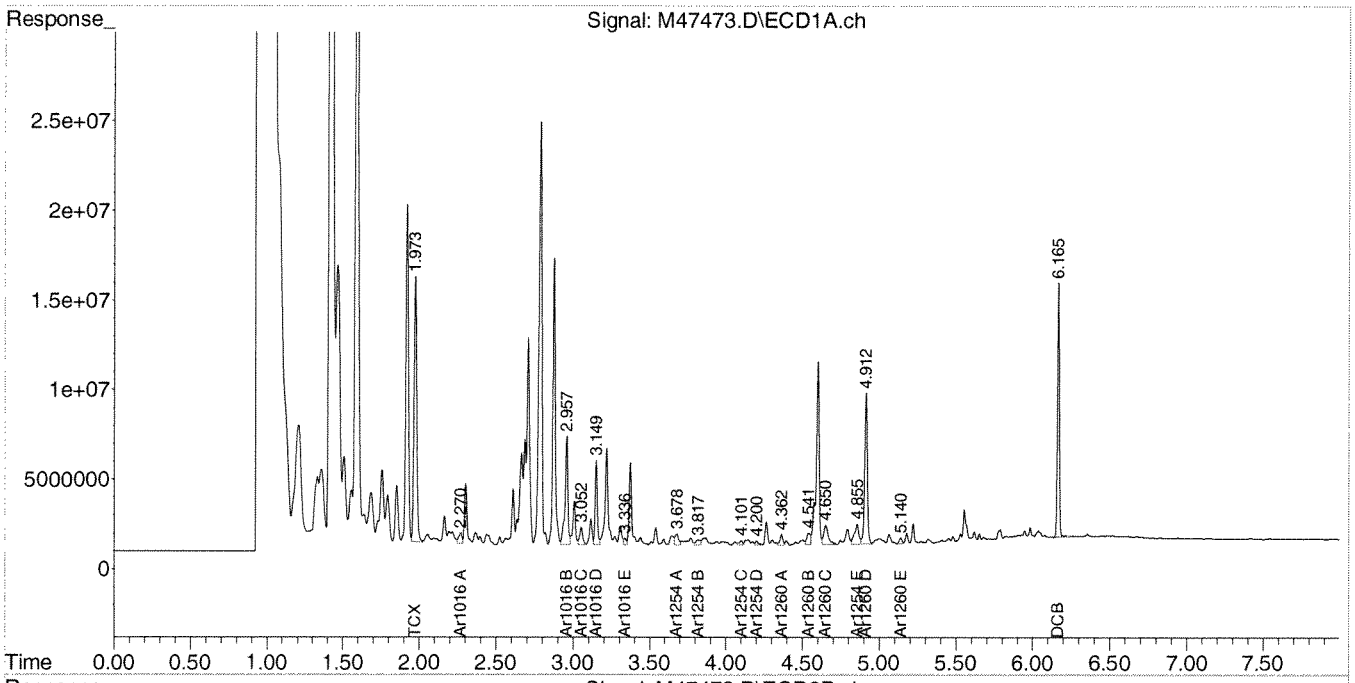
PCB Report

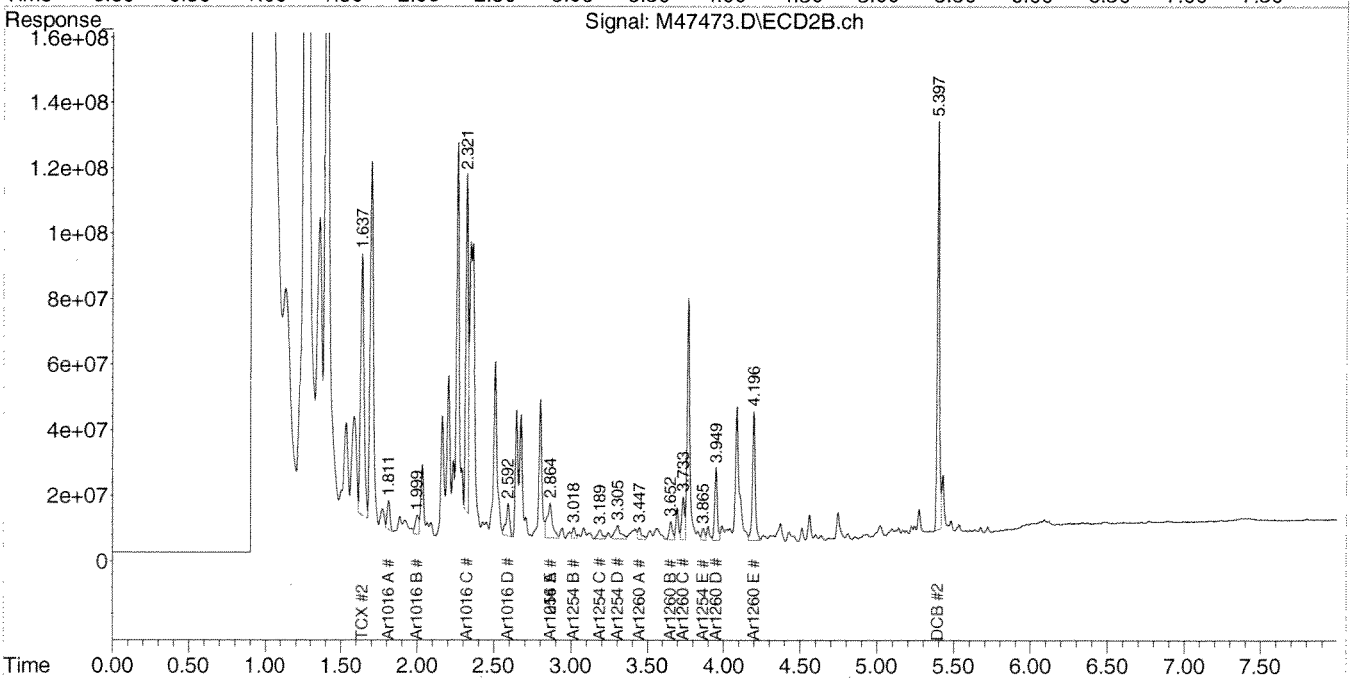
Authorized signature

```
Data Path : C:\msdchem\1\DATA\082211-M\
Data File : M47473.D
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    : 22 Aug 2011   1:44 pm
Operator  : JK
Sample    : 70765-1,,A/C
Misc      : SOIL
ALS Vial  : 9   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 23 10:10:27 2011
Quant Method : C:\msdchem\1\METHODS\PCB080411.M
Quant Title  : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Tue Aug 23 09:00:21 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.      : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info  : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um
```





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41 Hutchins Drive
Portland ME 04102

August 23, 2011

SAMPLE DATA

Lab Sample ID: 70765-2
Matrix: Wipe
Percent Solid: N/A
Dilution Factor: 1.0
Collection Date: 08/18/11
Lab Receipt Date: 08/19/11
Extraction Date: 08/19/11
Analysis Date: 08/22/11

CLIENT SAMPLE ID

Project Name: USM Gorham
Project Number: 224164
Field Sample ID: AH-VWE-092

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit μg/wipe	Results μg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	**0.8**
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	96	%
Decachlorobiphenyl	85	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 70765
Sample: 70765-2,,A/C
Data File: M47474.D
Dilution Factor: 1.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/wipe)	SAMPLE RESULT (ug/wipe)	RPD	#
PCB 1254	0.8	0.8	1.3	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

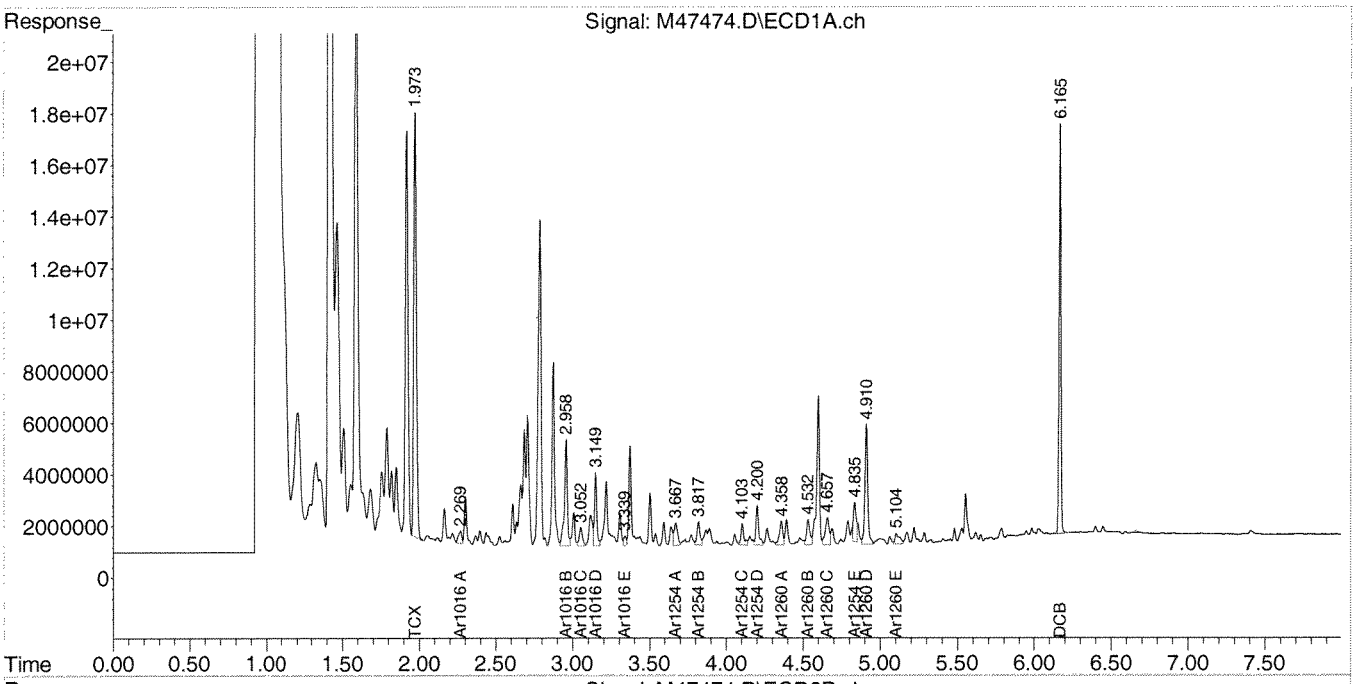
Comments: _____

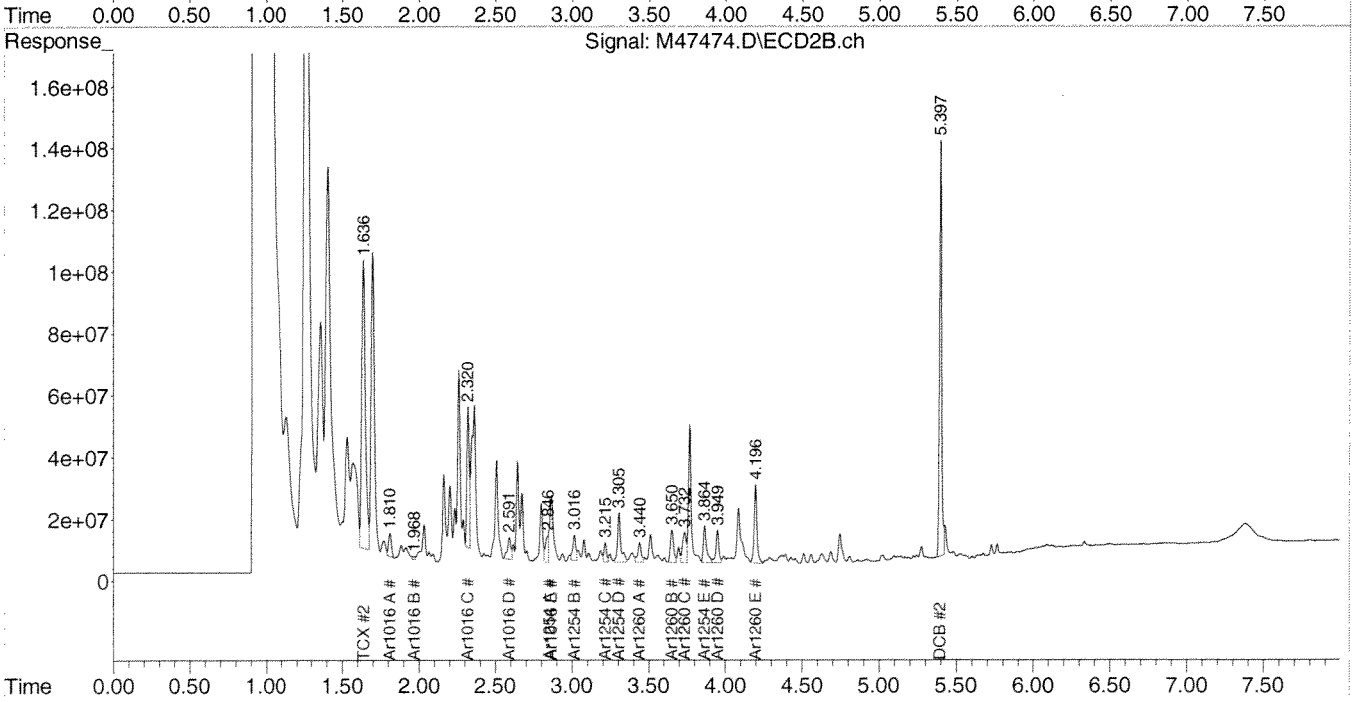
PCB FORM 10

```
Data Path : C:\msdchem\1\DATA\082211-M\
Data File : M47474.D
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    : 22 Aug 2011   1:54 pm
Operator  : JK
Sample    : 70765-2,,A/C
Misc      : SOIL
ALS Vial  : 10   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 23 12:07:05 2011
Quant Method : C:\msdchem\1\METHODS\PCB080411.M
Quant Title  : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Tue Aug 23 09:00:21 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.     : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info  : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um
```





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Ms. Amy Wallace
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41 Hutchins Drive
Portland ME 04102

August 23, 2011

SAMPLE DATA

Lab Sample ID: 70765-3
Matrix: Wipe
Percent Solid: N/A
Dilution Factor: 1.0
Collection Date: 08/18/11
Lab Receipt Date: 08/19/11
Extraction Date: 08/19/11
Analysis Date: 08/22/11

CLIENT SAMPLE ID

Project Name: USM Gorham
Project Number: 224164
Field Sample ID: AH-VWE-093

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	U
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	102	%
Decachlorobiphenyl	85	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS:

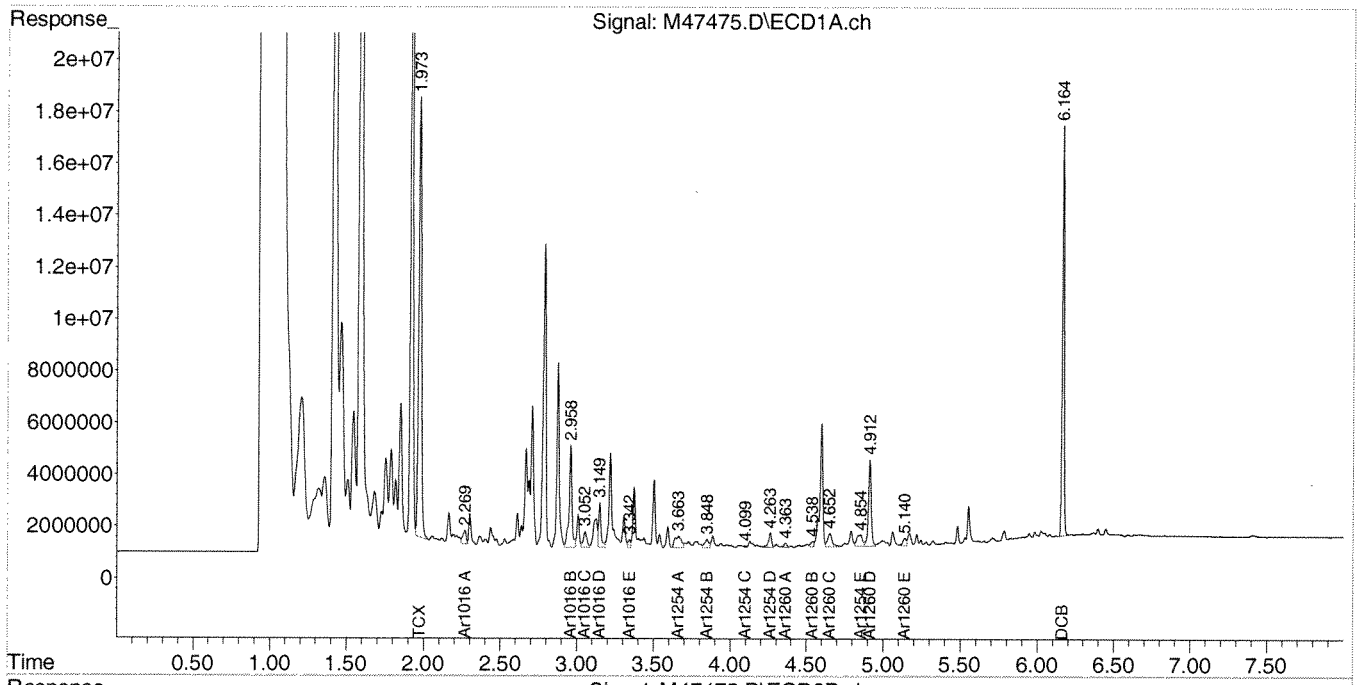
PCB Report

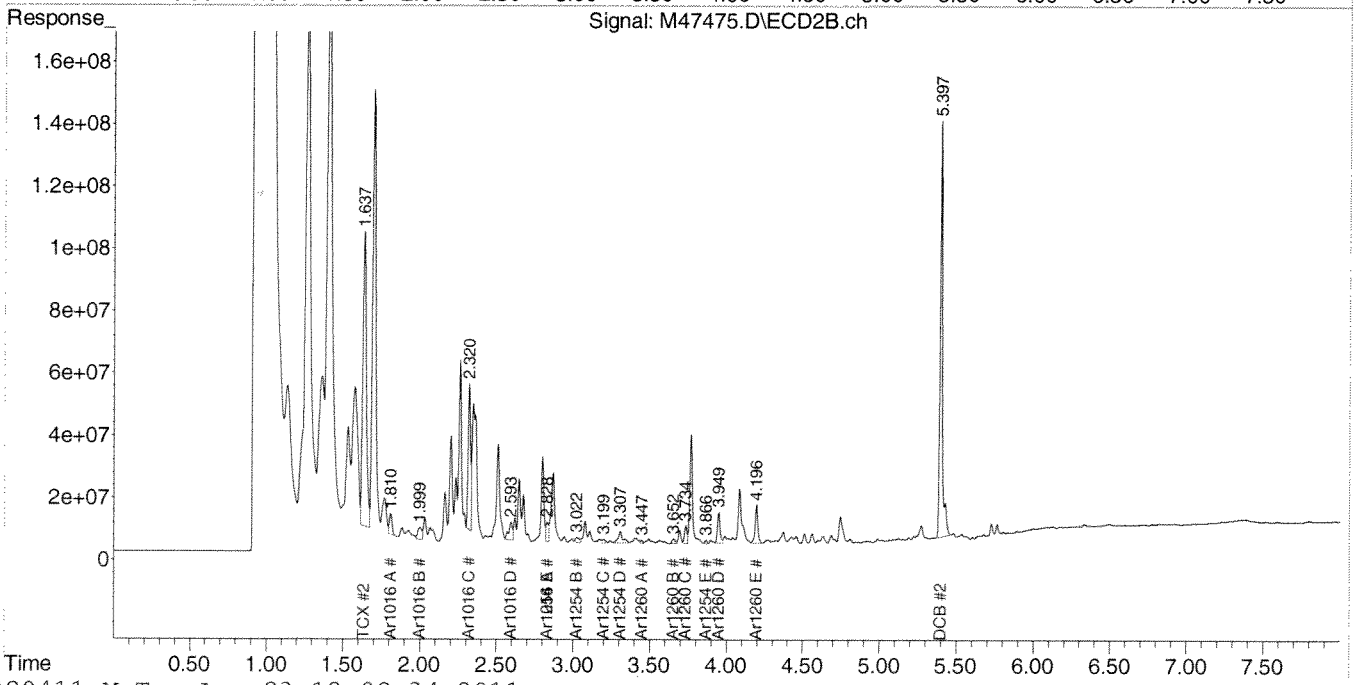
Authorized signature

Data Path : C:\msdchem\1\DATA\082211-M\
Data File : M47475.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Aug 2011 2:04 pm
Operator : JK
Sample : 70765-3,,A/C
Misc : SOIL
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 23 10:10:31 2011
Quant Method : C:\msdchem\1\METHODS\PCB080411.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Tue Aug 23 09:00:21 2011
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





PCB
QC FORMS

AnalyticsLLC:AEL Documents LLC:Pkg Dividers:PCBQC.doc

PCB WIPE
SYSTEM MONITORING COMPOUNDS
SUMMARY

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 70765

	Column #1				Column #2			
SAMPLE ID	SMC 1 (%)	#	SMC 2 (%)	#	SMC 1 (%)	#	SMC 2 (%)	#
B081911PSOX2,,A/C	100		91		73		91	
L081911PSOX2,,A/C	102		85		85		86	
LD081911PSOX2,,A/C	97		86		86		88	
70765-1,,A/C	90		78		72		79	
70765-2,,A/C	96		85		90		85	
70765-3,,A/C	102		85		88		93	

		Lower Limit	Upper Limit
SMC #1 =	TCX	40	130
SMC #2 =	DCB	40	130

Column to be used to flag recovery values outside of QC limits
* Values outside QC limits
D System Monitoring Compound diluted out

PCB SOIL
LABORATORY CONTROL SAMPLE/DUPLICATE
PERCENT RECOVERY

Instrument ID: M

GC Column #1: STX-CLPesticides I

Column ID: 0.25 mm

GC Column #2: STX-CLPesticides II

Column ID: 0.25 mm

SDG: 70765

Non-spiked sample: B081911PSOX2,,A/C

Spike: L081911PSOX2,,A/C

Spike duplicate: LD081911PSOX2,,A/C

COMPOUND	LCS SPIKE ADDED (ug/kg)	LCSD SPIKE ADDED (ug/kg)	LOWER LIMIT	UPPER LIMIT	RPD LIMIT	NON-SPIKE RESULT (ug/kg)	SPIKE RESULT (ug/kg)	SPIKE % REC	#	SPIKE DUP RESULT (ug/kg)	SPIKE DUP % REC	#	RPD	#
PCB 1016	200	200	65	140	30	0	251	126		239	119		5.1	
PCB 1260	200	200	60	130	30	0	241	120		245	123		1.9	
PCB 1016 #2	200	200	65	140	30	0	249	125		234	117		6.1	
PCB 1260 #2	200	200	60	130	30	0	247	123		229	114		7.6	

Column to be used to flag recovery and RPD values outside of QC limits

* Values outside QC limits

LCS/LCSD spike added values have been weight adjusted.

Non-spike result of "0" used in place of "U" to allow calculation of spike recovery.

Comments: _____

_____

CHAIN OF CUSTODIES

Chain Of Custody Form

analytics environmental laboratory LLC
195 Commerce Way, Suite E
Portsmouth, NH 03801
(800) 929-9906
(603) 436-5111
(603) 430-2151 Fax

Project#: 224164 Proj. Name: USM Gorham
Company: Woodard + Curran
Report to: Amy Wallace, Scott Luczko
Address: 41 Hutchins Dr.
Portland, ME 04102
Phone: 207-774-2112
Quote #:
PO# (if required):

Circle and/or Write Required Analysis

Station Identification	Sample Date	Sample Time	Preservation: Unpres	4° C	HNO_3	H_2SO_4	HCl	Methanol	~~Other~~ n-hexane	Field Filtered? Y or N	VOC: 8260 524.2 624	SVOC: 8270 625 PAH only SIM	Pesticides: 8081 608	PCB: 8082 608 Soxhlet? Y or N	TPH: 8015DRO 8015GRO 8100M	EPH: Full (includes targets) Ranges only	VPH: Full (includes targets) Ranges only	Metals: RCRA8 PP13 TAL23 Other*	Matrix	No. of Containers	pH checked	Analytics Sample #
UH-VWD-094	8/18/11	0745		X					X					X					WP	1		70765-1
AH-VWE-092	8/18/11	0715		X					X					X					WP	1		-2
AH-VWE-093	8/18/11	0730		X					X					X					WP	1		-3

SHC 8/19/11

For Analytics Use Only
Samples were:
1) Shipped or hand-delivered
2) Temperature (°C): 5.0
3) Received in good condition: Y or N
4) pH checked by: N/A
5) Labels checked by: SW 8.19.11

Matrix Key:
C = Concrete
WP = Wipe
WW = Wastewater
SW = Surface Water
E = Extract
GW = Groundwater
DW = Drinking Water
S = Soil / Sludge
O = Oil
X = Other

Email Results to:
sluczko@woodardcurran.com
awallace

Turnaround Time (TAT)
- [ ] 24 Hours*
- [ ] 48 Hours*
- [ ] 72 Hours*
- [x] 5 Days*
- [ ] 10 Days

*Fee may apply; lab approval required

Comments, Additional Analyses, or Special Instructions:

* List requested metals here

Project Requirements:
*Fee may apply

Report Type:
- [ ] MCP*
- [ ] CTRCP*
- [ ] DOD*
- [x] Level II*
- [ ] Level III*
- [ ] Level IV*
- [ ] Standard

State:
- [ ] NH
- [ ] MA
- [x] ME
- [ ] CT
- [ ] RI

Other:

State Standard: (eg. S-1 or GW-1)

EDD Required: Y* N

Type: PDF

Sampler Name (Print): Scott Luczko

	Date	Time	Received By
Relinquished By Sampler:	8/19/11	10:25	
Relinquished By:			
Relinquished By:			

SHC 8/19/11

Page ____ of ____

analytics environmental laboratory LLC

ANALYTICS SAMPLE RECEIPT CHECKLIST

AEL LAB#: 70765 | COOLER NUMBER: 184

CLIENT: Woodard | NUMBER OF COOLERS: 1

PROJECT: USM Gorham | DATE RECEIVED: 8/19/11

A: PRELIMINARY EXAMINATION: | DATE COOLER OPENED: 8/19/11

1. Cooler received by(initials): SHC | Date Received: 8/19/11

2. Circle one: Hand delivered (If so, skip 3) | Shipped

3. Did cooler come with a shipping slip? Y (N)

3a. Enter carrier name and airbill number here: —

4. Were custody seals on the outside of cooler? Y (N)
How many & where: — Seal Date: — Seal Name: —

5. Did the custody seals arrive unbroken and intact upon arrival? Y N/A

6. COC: —

7. Were Custody papers filled out properly (ink,signed, etc)? (Y) N

8. Were custody papers sealed in a plastic bag? (Y) N

9. Did you sign the COC in the appropriate place? (Y) N

10. Was the project identifiable from the COC papers? (Y) N

11. Was enough ice used to chill the cooler? (Y) N | Temp. of cooler: 5.0

B. Log-In: Date samples were logged in: 8/19/11 By: SHC

12. Type of packing in cooler(bubble wrap/popcorn) (Y) N

13. Were all bottles sealed in separate plastic bags? (Y) N

14. Did all bottles arrive unbroken and were labels in good condition? (Y) N

15. Were all bottle labels complete(ID,Date,time,etc.) (Y) N

16. Did all bottle labels agree with custody papers? (Y) N

17. Were the correct containers used for the tests indicated: (Y) N

18. Were samples received at the correct pH? Y N/A

19. Was sufficient amount of sample sent for the tests indicated? (Y) N

20. Were all samples submitted within holding time? (Y) N

21. Were bubbles absent in VOA samples? Y N/A

If NO, List Sample ID's and Lab #s: —

22. Laboratory labeling verified by (initials): JW | Date: 8.19.11

APPENDIX C: WASTE SHIPMENT RECORDS

ME3541368-003 SC PPW 3/3/2011

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number MAR 000500587	2. Page 1 of 1	3. Emergency Response Phone (800) 483-3718	4. Manifest Tracking Number 003908897 FLE

5. Generator's Name and Mailing Address
Chemical Waste Solutions Maine
37 College Ave
Gorham, ME 04038
(207) 926-0520

Generator's Site Address (if different than mailing address)
SAME

Generator's Phone:

6. Transporter 1 Company Name
Clean Harbors Environmental Services Inc
U.S. EPA ID Number MAD039322250

7. Transporter 2 Company Name
CLEAN HARBORS ENV. SERVICES
U.S. EPA ID Number MAD039322250

8. Designated Facility Name and Site Address
Clean Harbors Buffalo LLC
1000 Balmer Road
Model City, NY 14107
(716) 754-8231
U.S. EPA ID Number NYD049836679

Facility's Phone:

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. [illegible]	001	CM	EST 4,800	K	
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
Rec'd 3/05/11
out of Service Date 7/5/11
3164 5920 CART 15693 SRA 960376-1

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: X Jakob Berner
Signature: X
Month 07 Day 05 Year 11

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Mark Bischoff
Signature:
Month 07 Day 05 Year 11
Transporter 2 Printed/Typed Name: Jeff Cobb
Signature:
Month 07 Day 05 Year 11

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H130 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Eileen Carton
Signature: Eileen Carton
Month 07 Day 07 Year 11

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. TRANSPORTER'S COPY

ME3807840-002 SC PPW 3/3/2011

Form Approved. OMB No. 2050-0039

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number ME0000504954	2. Page 1 of 1	3. Emergency Response Phone (800) 483-8718	4. Manifest Tracking Number 003908867 FLE

GENERATOR

5. Generator's Name and Mailing Address
Portland Diversified Services
880 Stroudwater Rd.
Westbrook, ME 04092
Generator's Phone: (207) 828-0020

Generator's Site Address (if different than mailing address)
University of Southern Maine
37 College Ave.
Gorham, ME 04038, MAG
U.S.M. Anderson Hall
37 College Ave
Gorham ME.

6. Transporter 1 Company Name
Clean Harbors Environmental Services Inc
U.S. EPA ID Number MAD039322950

7. Transporter 2 Company Name
Clean Harbors Environmental Services Inc
U.S. EPA ID Number MAD073212110

8. Designated Facility Name and Site Address
Clean Chemical Services LLC
1990 Balmer Road
Model City, NY 14107
Facility's Phone: (716) 754-8231
U.S. EPA ID Number NYD049836679

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, POLYCHLORINATED BIPHENYLS, SOLID, 9, PG III	001	CM	Est 4500	K	8007
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
LP7239723 EPG8171 PCD 5008K 6-22-11
SW4569
SR# 95972-1 CHRT25780 Est 10,000 lb. out of Sewer Dept

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Jakob Berner
Signature: X
Month 06 Day 22 Year 11

INT'L

16. International Shipments: ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Mark Brackett
Signature:
Month 06 Day 22 Year 11
Transporter 2 Printed/Typed Name: Wayne C.H.
Signature:
Month 06 Day 22 Year 11

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Velma Hooker
Signature:
Month 06 Day 24 Year 11

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

TRANSPORTER'S COPY

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) NE3541368-003 SC PPW 3/3/2011 Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	MER000600580	1	(800) 483-3718	003908932 FLE

5. Generator's Name and Mailing Address
University of Southern Maine
37 college ave
Gorham, ME 04038
Generator's Phone: (207) 828-0920

Generator's Site Address (if different than mailing address)
SAME

6. Transporter 1 Company Name: Clean Harbors Environmental Services Inc — U.S. EPA ID Number: MAD039322250

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Cwm Chemical Services LLC
1550 Balmer Road
Model City, NY 14107
Facility's Phone: (716) 754-8231
U.S. EPA ID Number: NYD049836678

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, POLYCHLORINATED BIPHENYLS, SOLID, 9, PG III	001	CM	Est 4000	K	D007
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1 M2299725-1 ERG#171 Bill of Lad 0 Output Sample #M 7/24/11
CART 15693 BG W110215837 SR# 96144-1 Rev. 05301K

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Mark Bernier — Signature: [signature] — Month 07 Day 26 Year 11

INT'L — 16. International Shipments: ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER — 17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Mark Brackett — Signature: Mark Brackett — Month 07 Day 26 Year 11
Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY — 18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Did not actual weight 5301K
Manifest Reference Number:
18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: EILEEN CARTER — Signature: Eileen Carter — Month 7 Day 27 Year 11

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. TRANSPORTER'S COPY

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) SC PPW 3/8/2011 Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
MER 000500487	1	(800) 483-3718	003908933 FLE

5. Generator's Name and Mailing Address
University of Southern Maine
37 college ave.
Gorham, ME 04038
Generator's Phone: (207) 828-0020

Generator's Site Address (if different than mailing address): SAME

6. Transporter 1 Company Name: Clean Harbors Environmental Services Inc — U.S. EPA ID Number: MAD039322250

7. Transporter 2 Company Name: Clean Harbors Environmental Services Inc — U.S. EPA ID Number: MAD039322250

8. Designated Facility Name and Site Address
Cwm Chemical Services LLC
1550 Balmer Road
Model City, NY 14107
Facility's Phone: (716) 754-8231
U.S. EPA ID Number: NYD049836679

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, POLYCHLORINATED BIPHENYLS, SOLID, 9, PG III	001	CMT	4,500	K	B007 mec2
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. HTS 8979-1 EDP#171 SR# 962552 W110219490 0945 AM
81646612 Recd 39191K
(CHRS-25780)
Date of Service Date 08-12-11

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Paul H. Hersey — Signature: [signature] — Month 08 Day 12 Year 11

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Ken Mik. — Signature: [signature] — Month 08 Day 12 Year 11
Transporter 2 Printed/Typed Name: Mark Brackett — Signature: [signature] — Month 08 Day 15 Year 11

18. Discrepancy
18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Overtaken Recd 39191K Manifest Reference Number:

18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Jody Pachuck — Signature: [signature] — Month 8 Day 16 Year 11

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. GENERATOR'S INITIAL COPY

WASTE MANAGEMENT

CWM CHEMICAL SERVICES, LLC
1550 Balmer Road
Model City, NY 14107
(716) 286-1550
(716) 286-0211 Fax

UNIVERSITY OF SOUTHERN MAINE
ATTN: ENVIRONMENTAL COMPLIANCE DEPT.
MER000500587
COLLEGE AVE
GORHAM ME 04038

CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from UNIVERSITY OF SOUTHERN MAINE on 06/24/11 as described on Shipping Document number 003908867FLE Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: NY299725
CWM Tracking ID: 8164566901
CWM Unit #: 1*0
Disposal Date: 06/24/11

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

MICHAEL D MAHAR
DISTRICT MANAGER
Certificate # 346575
06/27/11

For questions please call
our Customer Service Dept.
at (800) 843-3604

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WASTE MANAGEMENT

CWM CHEMICAL SERVICES, LLC
1550 Balmer Road
Model City, NY 14107
(716) 286-1550
(716) 286-0211 Fax

UNIVERSITY OF SOUTHERN MAINE
ATTN: ENVIRONMENTAL COMPLIANCE DEPT.
MER000500587
COLLEGE AVE
GORHAM ME 04038

CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from UNIVERSITY OF SOUTHERN MAINE on 07/07/11 as described on Shipping Document number 003908897FLE Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: NY299725
CWM Tracking ID: 8164592001
CWM Unit #: 1*0
Disposal Date: 07/07/11

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

MICHAEL D MAHAR
DISTRICT MANAGER
Certificate # 346839
07/08/11

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our Customer Service Dept.
at (800) 843-3604

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WASTE MANAGEMENT

CWM CHEMICAL SERVICES, LLC
1550 Balmer Road
Model City, NY 14107
(716) 286-1550
(716) 286-0211 Fax

UNIVERSITY OF SOUTHERN MAINE
ATTN: ENVIRONMENTAL COMPLIANCE DEPT.
MER000500587
COLLEGE AVE
GORHAM ME 04038

CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from UNIVERSITY OF SOUTHERN MAINE on 07/27/11 as described on Shipping Document number 003908932FLE Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: NY299725
CWM Tracking ID: 8164626001
CWM Unit #: 1*0
Disposal Date: 07/27/11

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

MICHAEL D MAHAR
DISTRICT MANAGER
Certificate # 347324
07/28/11

For questions please call
our Customer Service Dept.
at (800) 843-3604

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WASTE MANAGEMENT

CWM CHEMICAL SERVICES, LLC
1550 Balmer Road
Model City, NY 14107
(716) 286-1550
(716) 286-0211 Fax

UNIVERSITY OF SOUTHERN MAINE
ATTN: ENVIRONMENTAL COMPLIANCE DEPT.
MER000500587
COLLEGE AVE
GORHAM ME 04038

CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from UNIVERSITY OF SOUTHERN MAINE on 08/16/11 as described on Shipping Document number 003908933FLE Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: NY299725
CWM Tracking ID: 8164661201
CWM Unit #: 1*0
Disposal Date: 08/16/11

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true accurate and complete.

MICHAEL D MAHAR
DISTRICT MANAGER
Certificate # 347754
08/17/11

For questions please call
our Customer Service Dept.
at (800) 843-3604

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APPENDIX D: DATA VALIDATION SUMMARIES

USM GORHAM - PROJECT SUMMARY

Analytics Environmental Laboratory Job Numbers: 69043, 70116, 70198, 70235, 70288, & 70348

A modified Tier II validation was performed on the data. The criteria detailed below were used to qualify the data. Raw data were not used to verify the results reported by the laboratory.

Samples were received at 2.9, 3.4, 3.8, 4, 5.2, and 8.1 degrees Celsius. Although some samples were received at >6 degrees Celsius they were wipe or caulk samples and no qualifications will be applied.

PCBs:

All polychlorinated biphenyl compound (PCB) samples were extracted and analyzed within technical holding times. No qualifications will be applied.

All PCB surrogates met acceptance criteria (30-150%) or were diluted out with the following exception:

LAB ID	SAMPLE ID	TCX (%/%)	DCB (%/%)	QUALIFIER
70198-6	AH-VBC-046	156/OK	OK/OK	None, only one out

TCX = tetrachloro-m-xylene DCB = decachlorobiphenyl

The PCB method blanks were non-detect (ND) for all target analytes. No qualifications will be applied.

No PCB field blank samples were submitted with these analytical packages. No qualifications will be applied.

No PCB matrix spike/matrix spike duplicate (MS/MSD) was performed on a sample from these analytical packages. No qualifications will be applied.

The PCB laboratory control sample (LCS)/laboratory control sample duplicate (LCSD) met acceptance criteria with the following exception. The recovery for PCB-1260 on column two in one of the LCS was above acceptance limits. Since only one of the four recoveries in this LCS/LCSD failed criteria and the associated samples were ND for PCB-1260, no qualifications will be applied.

PCB field duplicate samples AH-VWC-054 (70288-4)/AH-VWCD-056 (70288-6) met acceptance criteria with the following exception. The relative percent difference (RPD) for PCB-1254 (56%) was above acceptance limits (≤50%). The PCB-1254 results were estimated (J, UJ) in all samples in analytical package 70288 due to poor field duplicate precision.

The RPD between the column results for all detected PCBs met acceptance criteria (≤ 25%) with the following exception:

LAB ID	SAMPLE ID	PCB	RPD	QUALIFIER
70198-6	AH-VBC-046	1254	28.8	J

Some samples were analyzed at dilutions due to the high concentration of PCBs present in the samples and/or due to sample matrix. Elevated quantitation limits are reported in these samples as a result of the dilutions performed.

Data Check, Inc.
P.O. Box 29
81 Meaderboro Road
New Durham, NH 03855

Gloria J. Switalski:
President

Date: 7/22/2011

Project # 224164

USM GORHAM - PROJECT SUMMARY

Analytics Environmental Laboratory Job Numbers: 70482, 70559, 70560, 70651, 70720, & 70765

A modified Tier II validation was performed on the data. The criteria detailed below were used to qualify the data. Raw data were not used to verify the results reported by the laboratory.

Samples were received at 2.0, 3.0, 5.0, and 26 degrees Celsius. Although some samples were received at >6 degrees Celsius they were wipe samples and no qualifications will be applied.

PCBs:

All polychlorinated biphenyl compound (PCB) samples were extracted and analyzed within technical holding times. No qualifications will be applied.

All PCB surrogates met acceptance criteria (30-150%) or were diluted out with the following exception:

LAB ID	SAMPLE ID	TCX (%/%)	DCB (%/%)	QUALIFIER
70560-4	AH-CBS-067	OK/OK	I/OK	None, only one out

TCX = tetrachloro-m-xylene DCB = decachlorobiphenyl
I = Chromatographic interference masked surrogate peak. Determination of surrogate recovery not possible.

The PCB method blanks were non-detect (ND) for all target analytes. No qualifications will be applied.

PCB field blank sample, UH-VWBQ-091 (70720-4), was ND for all target analytes. No qualifications will be applied.

The PCB matrix spike/matrix spike duplicate (MS/MSD) performed on sample AH-CBS-074 (70560-11) met acceptance criteria (65%-140% for PCB-1016 and 60%-130% for PCB-1260) with the following exceptions:

LAB ID	SAMPLE ID	PCB-1016 (%) MS/MS/MSD/MSD	PCB-1260 (%) MS/MS/MSD/MSD	QUALIFIER
70560-11	AH-CBS-074	OK/OK/OK/OK	1989/1906/1044/999	None, PCB-1254 interference

The PCB laboratory control sample (LCS)/laboratory control sample duplicate (LCSD) met acceptance criteria. No qualifications will be applied.

PCB field duplicate samples UH-VWB-089 (70720-2)/UH-VWBD-090 (70720-3) met acceptance criteria. No qualifications will be applied.

The relative percent difference (RPD) between the column results for all detected PCBs met acceptance criteria (≤ 25%) with the following exceptions:

LAB ID	SAMPLE ID	PCB	RPD	QUALIFIER
70560-7	AH-CBS-070	1254	35.5	J
70560-13	AH-CBS-076	1254	25.7	J
70651-5	UH-VWD-087	1254	27.3	J

Some samples were analyzed at dilutions due to the high concentration of PCBs present in the samples and/or due to sample matrix. Elevated quantitation limits are reported in these samples as a result of the dilutions performed.

Data Check, Inc.
P.O. Box 29
81 Meaderboro Road
New Durham, NH 03855

Gloria J. Switalski:
President

Date: 9/7/2011