October 20, 2010

Mr. John Checchio
Brinkerhoff Environmental Services
1913 Atlantic Avenue
Suite R5
Manasquan, New Jersey

Subject: **Report of Phase II Environmental Site Assessment**
**Volvo Construction Equipment, North America Inc.**
**2159 Hendersonville Road**
**Asheville, North Carolina**
**BB&J Project No. R1005189**

Dear Mr. Checcio:

Bradburne, Briller & Johnson, LLC (BB&J) is pleased to provide Brinkerhoff Environmental Services (Brinkerhoff), with this *Report of Phase II Environmental Site Assessment* for the Volvo Construction Equipment, North America Inc. facility located at 2159 Hendersonville Road in Asheville, North Carolina (Subject Property). This project was performed in accordance with the Scope of Work outlined in BB&J's Proposal No. P1005189, dated May 13, 2010.

We appreciate the opportunity to provide Brinkerhoff with our environmental consulting services. If you have any questions or require additional information, please call.

Sincerely,

**BRADBURNE, BRILLER & JOHNSON, LLC**

Michael Couvreur
Staff Scientist

Kevin McCartney, P.G.
Senior Geologist

Douglas Charlton, NC P.G. #2225
Principal

# REPORT OF
# PHASE II ENVIRONMENTAL SITE ASSESSMENT

**Volvo Construction Equipment, North America Inc. Facility**
**2159 Hendersonville Road**
**Asheville, North Carolina**

Submitted to:

**Brinkerhoff Environmental Services**
Manasquan, New Jersey

Prepared by:

**BRADBURNE, BRILLER & JOHNSON, LLC**
Chicago, Illinois

October 20, 2010

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## 1.0 BACKGROUND

Brinkerhoff Environmental Services (Brinkerhoff) engaged Bradburne, Briller & Johnson, LLC (BB&J) to provide oversight for a Phase II Environmental Site Assessment (Phase II ESA) at the Volvo Construction Equipment, North America Inc. (VCE) Facility located at 2159 Hendersonville Road, in Asheville, Buncombe County, North Carolina (Subject Property). The subsurface investigation was proposed by Brinkerhoff based on the findings of the *Phase I Environmental Site Assessment* (Phase I ESA), prepared by Brinkerhoff for (VCE) and dated April 27, 2010 (Phase I ESA). According to the Phase I ESA, the Subject Property consisted of a large vehicle fabrication facility.

The Phase I ESA recognized a covered three-sided sand blasting shed located in the northeast corner of the Subject Property (see Figure 1), as a recognized environmental condition (REC)[1]. The dimensions of the shed were approximately 25 by 25 feet (see Figure 2). According to the Phase I ESA, sand blasting spoils had been previously used to fill in low areas around the exterior paint blasting shed. However, while inspecting the Subject Property[2], Brinkerhoff did not observe evidence of historic fill. The Phase I ESA stated that the use of sand blasting spoils could pose a real or potential threat to onsite soil or groundwater.

Consequently, Brinkerhoff requested that BB&J conduct the Phase II ESA to determine the potential for environmental impacts at the Subject Property associated with the above-referenced REC.

## 2.0 SUBSURFACE ASSESSMENT

The following sections summarize the subsurface assessment activities performed at the Subject Property.

### 2.1 Pre-Mobilization Activities

Before starting fieldwork, Brinkerhoff prepared a Health and Safety Plan (HSP) for use by BB&J's on-site representative to address known and suspected site-specific constituents of concern (COCs), potential site and work-related hazards, and additional health and safety issues. In addition, Brinkerhoff contacted North Carolina One-Call Services, the approved North Carolina utility-locating company to clear the underground utilities on June 7, 2010 (over 72 hours prior to field work).

### 2.2 Subsurface Assessment Activities

On June 15, 2010, BB&J inspected the vicinity of the sand blasting shed to select soil sample locations for the Phase II ESA. This inspection revealed paved surfaces to the north, east and west of the sand blasting shed, while unpaved exposed soil was observed south of the sand blasting shed. Additionally, BB&J observed sand blasting spoils which had accumulated on top of the exposed soil to the south (see

[1] The Phase I ESA also identified a former leaking underground storage tank (LUST) and form oil water separator (OWS) as REC's at the Subject Property. BB&J also investigated the LUST and OWS, concurrently with the sand-blasting shed's activities; however, the results are presented under a separate cover.
[2] On March 16, 2010, Brinkerhoff conducted a site reconnaissance, as part of the Phase I ESA preparation.

photographic documentation of the shed and spoils included as Appendix A). Therefore, soil probe locations (GP-1 through GP-4) were sited around the perimeter of the sand-blasting shed, as follows and as shown on Figure 3:

- GP-1: Three feet south of the shed's southern wall and located in the spoils area;
- GP-2: Three feet east of the shed's eastern un-walled side and located on a concrete-paved area;
- GP-3: Three feet north of the shed's northern wall and located in a concrete-paved area; and,
- GP-4: Three feet west of the shed's western wall and located in a concrete-paved area.

As shown on Figure 2, BB&J also sited one delineation probe (DL-1) in the sand blasting spoil area approximately 10 feet southeast of GP-1. The purpose of DL-1 was to visually assess the depth of the spoils in this area; therefore, no samples were obtained from probe DL-1. Mr. Sergio Rojas of Brinkerhoff approved the five proposed probe locations in the field,

BB&J oversaw the advancement of five soil probes (GP-1 through GP-4, and DL-1) by Probe Technologies Inc., of Concord, North Carolina (PTI). PTI utilized direct-push technology drilling equipment (i.e., Geoprobe®) for soil probe advancement.

BB&J collected soil samples at continuous two-foot intervals from the ground surface to the probe termination depth of 20 feet below ground surface (bgs). Groundwater was not encountered during the advancement of the soil probes; therefore, no groundwater samples were obtained. The soil was visually classified by field personnel and one "worst case" soil sample[3] was collected from each soil probe (see Appendix B: Soil Probe Logs). Accordingly, soil samples were collected at the following depths:

- GP-1: Four to six feet bgs;
- GP-2: Six to eight feet bgs;
- GP-3: Two to four feet bgs; and,
- GP-4: Eight to ten feet bgs.

In addition to the subsurface samples referenced above, BB&J also collected one composite sample (CS-1) of the sand blasting spoils. The composite sample was collected in order to provide a characterization of the accumulated sand blasting spoil material. Specifically, BB&J collected 2-ounce aliquot samples from four locations throughout the sand blasting spoils area (see Figure 3 for aliquot sample locations). The four aliquots were obtained from depths approximately 2-inches bgs. The four aliquots were then homogenized into one 8-ounce sample. Homogenization of the spoils was achieved by first mixing the four aliquots of spoils into a stainless steel bowl and then quartering the sample with a stainless steel spatula. Once quartered, BB&J mixed each quarter individually and then rolled the quarters to the center of the bowl to mix the entire sample again. This process was repeated twice, at which point a consistent physical appearance over the entire sample was observed. The entire sample was then transferred as one sample into a laboratory-supplied container.

[3] A "worst case" soil sample was selected based on: (1) visually appeared to exhibit the most prominent staining; and/or, (2) exhibited the strongest potential chemical odor or, (3) in the absence of an apparent chemical odor, the strongest anomalous odor, as noted.

BB&J collected samples in the field according to its Field Procedures (see Appendix C – BB&J's Field Procedures).

All soil samples collected were submitted to Pace Analytical Services, of Asheville, North Carolina (Pace) for the analysis of Resource Conservation and Recovery Act (RCRA) metals by United States Environmental Protection Agency (USEPA) Method 6010B and 7471. BB&J requested additional analysis for the speciation of total chromium into its valent states (i.e., hexavalent and trivalent chromium) by USEPA Method 7196.

A Quality Assurance/Quality Control (QA/QC) sample of the equipment rinsate sample from the plastic Geoprobe® sleeve was analyzed for RCRA metals using the above-referenced methods.

## 3.0 FINDINGS AND ANALYTICAL RESULTS

The following sections present the subsurface assessment findings and a summary of the laboratory analytical results.

### 3.1 Subsurface Geology

Based on visual classification of the subsurface soil encountered during the assessment, the primary subsurface soil type consisted of reddish brown, dry, medium dense silty sand (see Appendix B, which includes soil probe logs). Sand blasting spoils were observed in soil probes GP-1 and DL-1 from zero to approximately four inches bgs. BB&J observed an approximately 100-square foot area covered by sandblasting spoils located directly south of the sandblasting shed. The sandblasting spoils appeared to be limited to the surficial soils located directly south of sandblasting shed and did not appear to extend underneath the shed as the concrete floor of the sandblasting shed appeared to be in good condition with no cracks or conduits to the subsurface observed (see Figure 3).

Groundwater was not encountered during BB&J's subsurface investigation. However, as presented in the Brinkerhoff Phase I ESA, and based on review of the U.S. Geological Survey topographic map, the local topography and seasonal hydrology of the area, the interpreted direction of surface flow is to the south and west towards Lake Julian. Lake Julian adjoins the Subject Property to the south and west.

### 3.2 Field Observation Results

As summarized in the field probe logs (Appendix B), samples recovered from the soil probes lacked noticeable odors or staining,

### 3.3 Laboratory Analytical Results

BB&J understands that (1) the investigation of the sand blasting shed was requested as a voluntary cleanup activity and (2) the Subject Property will be redeveloped, potentially for residential use. Therefore, laboratory analytical data were compared to the established criteria in the North Carolina Department of Environment and Natural Resources (NCDENR) Inactive Hazardous Sites Branch Soil

Remediation Goals[4] (SRGs) to evaluate the potential risk posed by detected COCs; specifically, the Protection of Groundwater SRGs and the Health-Based Preliminary Site Remediation Goals (SRGs). A summary of the soil laboratory analytical results is presented in Table 1. A copy of the complete laboratory report is provided as Appendix D.

**RCRA Metals – Subsurface Soil**

Of the four subsurface soil samples (GP-1 through GP-4) analyzed, the following RCRA metals were reported to be present in one or more of the samples above laboratory reporting limits (RLs):

- Barium;
- Cadmium;
- Trivalent Chromium (Cr III);
- Lead;
- Mercury; and
- Silver.

However, none of the aforementioned metals were reported at concentrations exceeding the applicable NCDENR PSRGs.

**RCRA Metals – Composite Sample: Sand Blasting Spoils**

The following RCRA metals were reported to be present in the composite sample (CS-1) above laboratory RLs:

- Arsenic;
- Barium;
- Cadmium;
- Cr III;
- Lead;
- Mercury; and
- Silver.

Of these metals, only barium was reported at a concentration above the NCDENR Protection of Groundwater SRGs. Specifically, barium was reported at a concentration of 1,140 milligrams per kilogram (mg/kg), whereas the Protection of Groundwater SRG for barium is reported at 580 mg/kg. The barium concentration in CS-1 did not exceed the Health-Based SRG. No other RCRA metals exceeded either the Protection of Groundwater or the Health-Based SRGs, in CS-1. Additional details are presented in Table 1.

[4] http://portal.ncdenr.org/c/document_library/get_file?uuid=5539ecfb-739f-4345-9459-b514508135f1&groupId=38361

### 3.3.1 Quality Assurance and Quality Control

No RCRA metals were reported present at concentrations above applicable laboratory RLs in any of the QA/QC samples collected.

## 4.0 CONCLUSIONS AND RECOMMENDATIONS

During the June 15, 2010 Phase II ESA, BB&J collected five samples from soil probes GP-1 to GP-4 and one composite sample (CS-1) from the overlying sandblasting spoils, all of which were analyzed for RCRA metals. No RCRA metals exceeded either the Protection of Groundwater or the Health-Based SRGs in the subsurface soil samples (GP-1 through GP-4). Barium, however, was reported at a concentration that exceeded the Protection of Groundwater SRGs in the composite sample (CS-1).

Analysis of the sand blasting spoils reported barium above the NCDENR Protection of Groundwater SRGs. However, no exceedances were reported in the underlying subsurface soil suggesting that RCRA metals, particularly barium, are not being leached to the subsurface soil. Therefore, it is BB&J's opinion that no further investigation is required for soils at this time.

However, it is BB&J's opinion that the removal and disposal of the sand blasting spoils is warranted. Specifically, BB&J observed an approximately 100-square foot area covered by sandblasting spoils located directly south of the sandblasting shed. The sandblasting soils were present from zero to four inches bgs. Therefore, less than 30 cubic feet of spoils would be generated for disposal. BB&J recommends the sandblasting spoils be collected and placed into Department of Transportation (DOT)-approved, 55-gallon drums for transport and disposal. The drums should then be labeled as non-hazardous waste and disposed of by a certified disposal company.

**TABLE**

**Table 1 - Summary of Soil Analytical Results in mg/kg**
**Phase II ESA - 8.15.2010**

| **REC Description** | **Blasting Shed** | | | | | **NCDENR Soil Remediation Goals (SRGs)[2]** | |
|---|---|---|---|---|---|---|---|
| **Sample I.D.**<br>**Sample Interval[1]** | **GP-1**<br>(4-6) | **GP-2**<br>(6-8) | **GP-3**<br>(2-4) | **GP-4**<br>(8-10) | **CS-1**<br>NA | **Protection of Groundwater SRG** | **Preliminary Health-Based SRG** |
| **RCRA Metals** | | | | | | | |
| Arsenic | <0.47 | <0.44 | <0.32 | <0.47 | 1.3 | 5.8 | 4.4 |
| Barium | 108 | 62.9 | 47.0 | 33.8 | **1,140** | 580 | 3,100 |
| Cadmium | 2.4 | 1.6 | 0.50 | 1.5 | 2.0 | 3 | 14 |
| Chromium (hexavalent) | <5.3 | <5.8 | <5.6 | <6.0 | <4.9 | 3.8 | 0.29 |
| Chromium (trivalent) | 27.8 | 29.2 | 15.4 | 37.7 | 29.1 | 360,000 | 23,000 |
| Lead | 9.1 | 15.4 | 14.6 | 10.7 | 21.5 | 270 | 400 |
| Mercury | <0.0035 | <0.0037 | <0.0047 | <0.0056 | <0.0026 | 1 | 1.1 |
| Silver | <0.47 | <0.44 | <0.32 | <0.47 | 0.33 | 3 | 78 |

**Notes:**
Results in **bold** exceed Protection-of-Groundwater Goals SRGs.
For chemicals not reported above the laboratory reporting limits (RL), the RL is provided (e.g., <0.47).
[1] - Sample interval depth in feet bgs.
[2] - NCDENR SRGs pursuant to the *NCDENR Inactive Hazardous Sites Branch SRGs - January 2010* (http://portal.ncdenr.org/c/document_library/get_file?uuid=5539ecfb-739f-4345-9459-b514508135f1&groupId=38361).

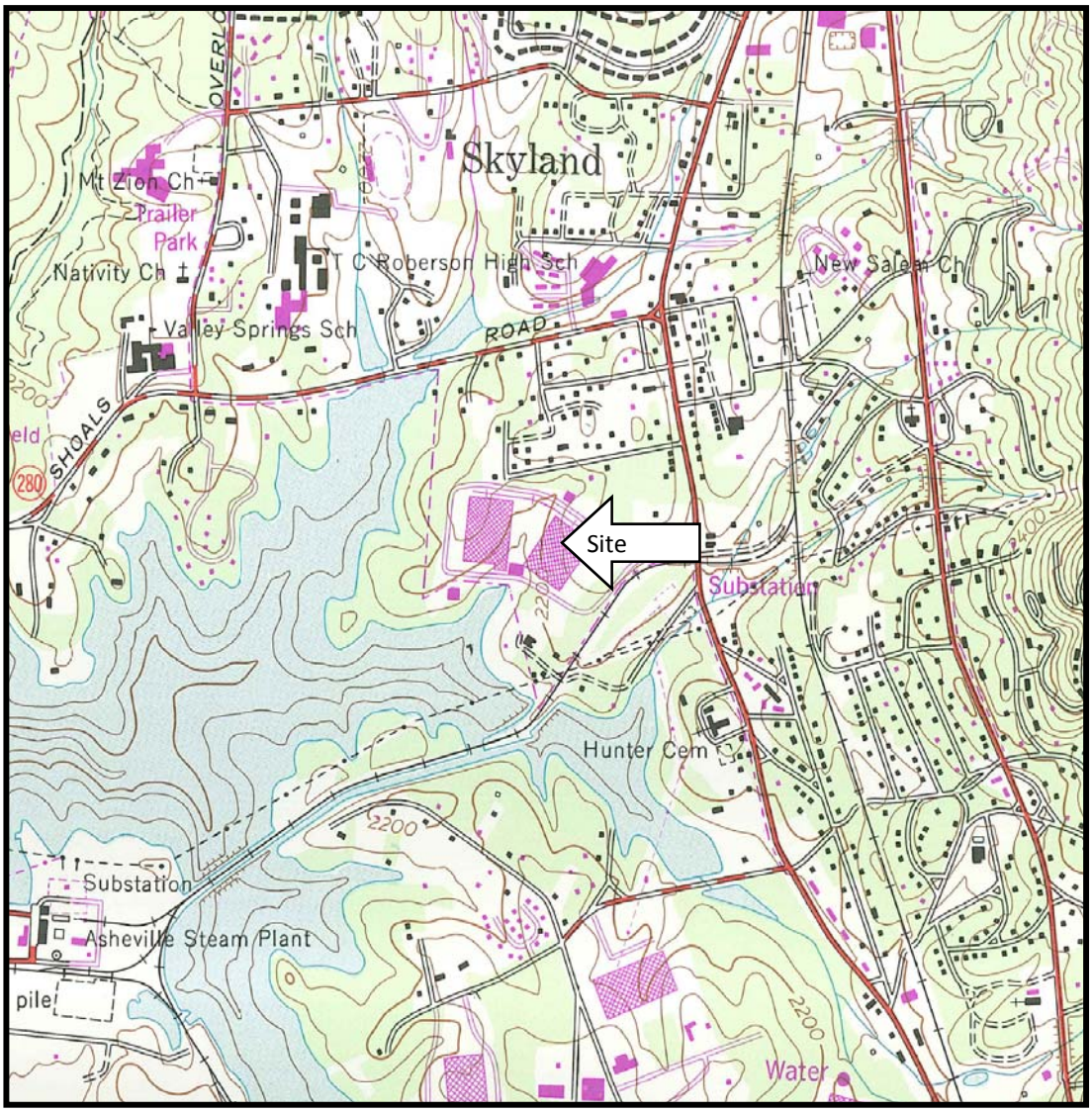
**Abbreviations**
bgs - below ground surface
CS - Composite sample
GP - Geoprobe
mg/kg - milligrams per kilogram
NA - Not applicable
NCDENR - North Carolina Department of Environment and Natural Resources
ND - Compound not detected above the laboratory reporting limit.
RCRA - Resource Conservation Recovery Act
REC - Recognized Environmental Condition
SRGs - Soil Remediation Goals

Prepared by: MJC/10-11-10
Checked by: DWC/10-13-10

**FIGURES**

Source: United States Geological Survey Royal Pines, North Carolina Quadrangles
7.5-Minute Series (Topographic), Dated 1986.

N




0 1/4 1/2 1 MILE

0 1000 3000 5000 FT

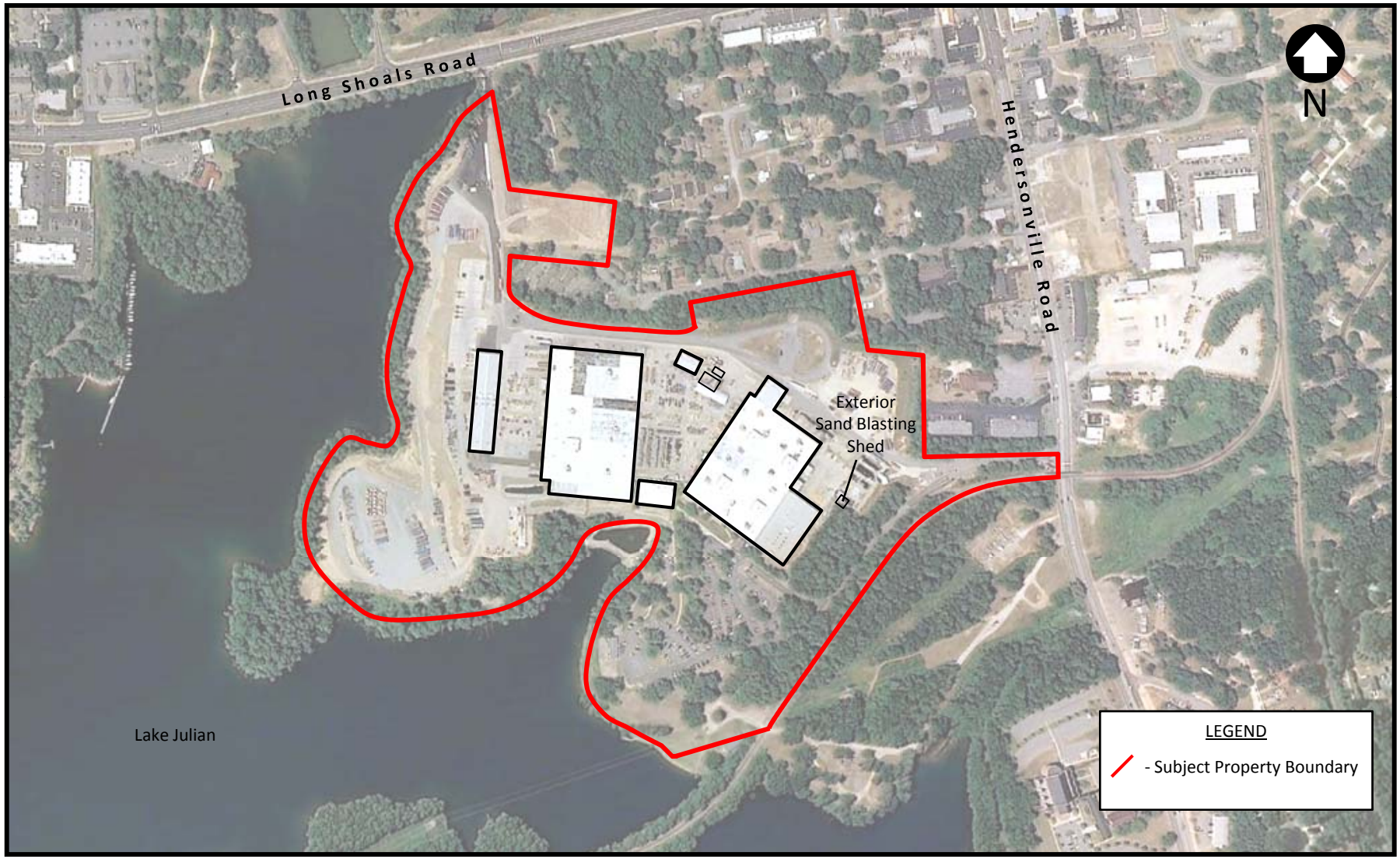
APPROXIMATE SCALE

Quadrangle Location

Prepared by/Date: PTB / 10-06-2010
Checked by/Date: MJC / 10-07-2010

| | | |
|---|---|---|
| Volvo Construction Equipment North America, Inc. 2159 Hendersonville Road Asheville, North Carolina | Bradburne, Briller & Johnson, LLC www.bbjgroup.com | Site Location Map<br>Project No. R1005189 Figure 1 |

Source: Site Reconnaissance by Mr. Michael Couvreur of BB&J, LLC on June 15 and 16, 2010.
*Figure 3 – Site Features Map* provided by Brinkerhoff Environmental Services, Inc., dated April 22, 2010.
Aerial photograph reviewed on GoogleEarth, dated June 18, 2008.



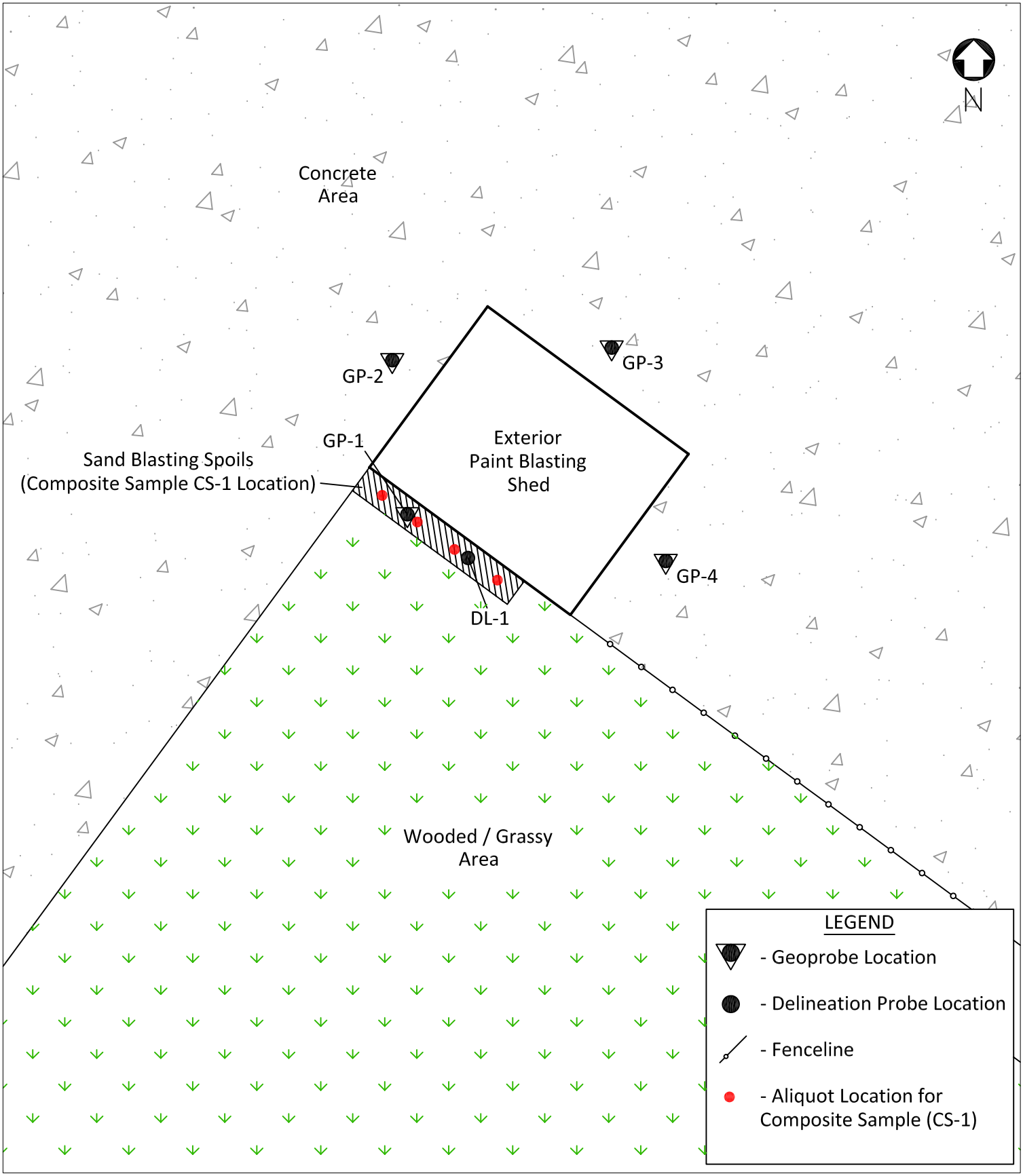

0 300 600 1,500

APPROXIMATE SCALE IN FEET

Prepared by/Date: PTB / 07-06-2010
Checked by/Date: KLM / 07-06-2010

| | | |
|---|---|---|
| Volvo Construction Equipment North America, Inc.<br>2159 Hendersonville Road<br>Asheville, North Carolina | Bradburne, Briller & Johnson, LLC<br>www.bbjgroup.com | Site and Vicinity Plan<br>Project No. R1005189 Figure 2 |

Sources: Site reconnaissance performed by Mr. Michael Couvreur of BB&J, LLC on June 15 and 16, 2010.
Aerial photograph reviewed on GoogleEarth, dated June 18, 2008.




0 8 16 40

APPROXIMATE SCALE IN FEET

Prepared by/Date: PTB / 07-06-2010
Checked by/Date: DWC / 10-05-2010

Volvo Construction Equipment North America, Inc.
2159 Hendersonville Road
Asheville, North Carolina

Bradburne, Briller & Johnson, LLC
www.bbjgroup.com

Site Plan with Soil Probe Locations

Project No. R1005189

Figure 3

**APPENDIX A**

**SITE PHOTOGRAPHS**

Photograph 1 – View east toward the sand blasting shed.

Photograph 2 – View east toward the sand blasting spoils located adjacent to the south of the sand blasting shed.

**APPENDIX B**

**FIELD PROBE LOGS**

# Field Boring Log



| | | | | | |
|---|---|---|---|---|---|
| Site File No. | R1005189 | County Buncombe | Boring No. | GP-1 | Completion Depth 20 feet bgs |
| Site File Name | Volvo Construction Equipment | | **Surface Elev. | NA | Date Started 6.15.2010 |
| Fed ID No. | NA | | Auger Depth | NA | Date Finished 6.15.2010 |
| Quadrangle | Skyland, North Carolina | | | | |
| Boring Location** | See Figure 3 | | **NGVD: National Geodetic Vertical Datum (feet) | | |
| Drilling Equipment | Geoprobe® | | | | |

**Personnel**

S - Mike Couvreur, BB&J
H - Sergio Rojas, Brinkerhoff
D - Arlen, PTI
H- NA

| Depth in Feet | DESCRIPTION OF MATERIALS | Graphic Log | Depth in Feet | SAMPLE ID | SAMPLE TYPE | SAMPLE RECOVERY (IN) | PENETROMETER | N VALUES (BLOW COUNTS) | OVA OR PID READINGS (PPM) | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| | Loose, black coarse-grained SAND (SW); dry | | | | | | | | | Blasting Material (0 - 4 inches bgs) |
| 1 | | | 1 | A | G | 12 | | | NA | |
| 2 | | | 2 | | | | | | | |
| 3 | | | 3 | B | G | 24 | | | NA | |
| 4 | | | 4 | | | | | | | |
| 5 | | | 5 | C | G | 24 | | | NA | Sample submitted for laboratory analysis (4 - 6 feet bgs). |
| 6 | | | 6 | | | | | | | |
| 7 | Medium stiff, brownish red SAND (SC) some clay and silt; dry | | 7 | D | G | 24 | | | NA | |
| 8 | | | 8 | | | | | | | |
| 9 | | | 9 | E | G | 24 | | | NA | |
| 10 | | | 10 | | | | | | | |
| 11 | | | 11 | F | G | 24 | | | NA | |
| 12 | | | 12 | | | | | | | |
| 13 | | | 13 | G | G | 24 | | | NA | |
| | Stif, dark brown CLAY (CL); dry | | | | | | | | | |
| 14 | | | 14 | | | | | | | |
| 15 | | | 15 | H | G | 24 | | | NA | |
| 16 | | | 16 | | | | | | | |
| 17 | Loose brownish red SAND (SC) with clay and silt; dry | | 17 | I | G | 24 | | | NA | |
| 18 | | | 18 | | | | | | | |
| 19 | | | 19 | J | G | 24 | | | NA | |
| 20 | | | 20 | | | | | | | |

Probe terminated at 20 ft bgs.

NOTES:

| | | | | |
|---|---|---|---|---|
| NA: Not Applicable | G: Grab | Fed: Federal | P: Damp | S: Saturated |
| No: Number | C: Composite | ppm: parts per million | M: Moist | OV: Organic Vapors |
| NM: Not Measured | S: Sampler | D: Driller | W: Wet | Ground water encountered |
| Elev: Elevation | bgs: below ground surface | ID: Identification | H: Helper | during drilling. |

# Field Boring Log



| | | | | | |
|---|---|---|---|---|---|
| Site File No. | R1005189 | County Buncombe | Boring No. | GP-2 | Completion Depth 20 feet bgs |
| Site File Name | Volvo Construction Equipment | | **Surface Elev. | NA | Date Started 6.15.2010 |
| Fed ID No. | NA | | Auger Depth | NA | Date Finished 6.15.2010 |
| Quadrangle | Skyland, North Carolina | | | | |
| Boring Location** | See Figure 3 | | **NGVD: National Geodetic Vertical Datum (feet) | | |
| Drilling Equipment | Geoprobe® | | | | |

**Personnel**

S - Mike Couvreur, BB&J
H - Sergio Rojas, Brinkerhoff
D - Arlen, PTI
H- NA

| Depth in Feet | DESCRIPTION OF MATERIALS | Graphic Log | Depth in Feet | SAMPLE ID | SAMPLE TYPE | SAMPLE RECOVERY (IN) | PENETROMETER | N VALUES (BLOW COUNTS) | OVA OR PID READINGS (PPM) | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| | Concrete | | | | | | | | | Concrete (0 - 3 inches bgs) |
| 1 | Medium dense, reddish brown SAND (SC) trace clay and silt; dry | | 1 | A | G | 24 | | | NA | |
| 2 | | | 2 | | | | | | | |
| 3 | | | 3 | B | G | 24 | | | NA | |
| 4 | | | 4 | | | | | | | |
| 5 | | | 5 | C | G | 24 | | | NA | |
| 6 | | | 6 | | | | | | | |
| 7 | | | 7 | D | G | 24 | | | NA | Sample submitted for laboratory analysis (6 to 8 feet bgs). |
| 8 | | | 8 | | | | | | | |
| 9 | | | 9 | E | G | 24 | | | NA | |
| 10 | | | 10 | | | | | | | |
| 11 | | | 11 | F | G | 24 | | | NA | |
| 12 | | | 12 | | | | | | | |
| 13 | Medium dense, reddish brown SAND (SC) with clay and silt; dry | | 13 | G | G | 24 | | | NA | |
| 14 | | | 14 | | | | | | | |
| 15 | | | 15 | H | G | 24 | | | NA | |
| 16 | | | 16 | | | | | | | |
| 17 | | | 17 | I | G | 24 | | | NA | |
| 18 | | | 18 | | | | | | | |
| 19 | | | 19 | J | G | 24 | | | NA | |
| 20 | | | 20 | | | | | | | |

Probe terminated at 20 ft bgs.

NOTES:

| | | | | |
|---|---|---|---|---|
| NA: Not Applicable | G: Grab | Fed: Federal | P: Damp | S: Saturated |
| No: Number | C: Composite | ppm: parts per million | M: Moist | OV: Organic Vapors |
| NM: Not Measured | S: Sampler | D: Driller | W: Wet | Ground water encountered |
| Elev: Elevation | bgs: below ground surface | ID: Identification | H: Helper | during drilling. |

# Field Boring Log



| | | | | | |
|---|---|---|---|---|---|
| Site File No. | R1005189 | County Buncombe | Boring No. | GP-3 | Completion Depth 20 feet bgs |
| Site File Name | Volvo Construction Equipment | | **Surface Elev. | NA | Date Started 6.15.2010 |
| Fed ID No. | NA | | Auger Depth | NA | Date Finished 6.15.2010 |
| Quadrangle | Skyland, North Carolina | | | | |
| Boring Location** | See Figure 3 | | **NGVD: National Geodetic Vertical Datum (feet) | | |
| Drilling Equipment | Geoprobe® | | | | |

**Personnel**

S - Mike Couvreur, BB&J
H - Sergio Rojas, Brinkerhoff
D - Arlen, PTI
H- NA

| Depth in Feet | DESCRIPTION OF MATERIALS | Graphic Log | Depth in Feet | SAMPLE ID | SAMPLE TYPE | SAMPLE RECOVERY (IN) | PENETROMETER | N VALUES (BLOW COUNTS) | OVA OR PID READINGS (PPM) | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| | Concrete | | | | | | | | | Concrete (0 - 3 inches bgs) |
| 1 | Medium dense, reddish brown SAND (SC) trace clay and silt; dry | | 1 | A | G | 24 | | | NA | |
| 2 | | | 2 | | | | | | | |
| 3 | | | 3 | B | G | 24 | | | NA | Sample submitted for laboratory analysis (2 - 4 feet bgs). |
| 4 | | | 4 | | | | | | | |
| 5 | | | 5 | C | G | 24 | | | NA | |
| 6 | | | 6 | | | | | | | |
| 7 | | | 7 | D | G | 24 | | | NA | |
| 8 | | | 8 | | | | | | | |
| 9 | | | 9 | E | G | 24 | | | NA | |
| 10 | | | 10 | | | | | | | |
| 11 | Stiff, reddish brown CLAY (CL) sand; dry | | 11 | F | G | 24 | | | NA | |
| 12 | Medium dense, reddish brown SAND (SC) with clay and silt; dry | | 12 | | | | | | | |
| 13 | | | 13 | G | G | 24 | | | NA | |
| 14 | | | 14 | | | | | | | |
| 15 | | | 15 | H | G | 24 | | | NA | |
| 16 | | | 16 | | | | | | | |
| 17 | | | 17 | I | G | 24 | | | NA | |
| 18 | | | 18 | | | | | | | |
| 19 | | | 19 | J | G | 24 | | | NA | |
| 20 | | | 20 | | | | | | | |

Probe terminated at 20 ft bgs.

NOTES:

| | | | | |
|---|---|---|---|---|
| NA: Not Applicable | G: Grab | Fed: Federal | P: Damp | S: Saturated |
| No: Number | C: Composite | ppm: parts per million | M: Moist | OV: Organic Vapors |
| NM: Not Measured | S: Sampler | D: Driller | W: Wet | Ground water encountered |
| Elev: Elevation | bgs: below ground surface | ID: Identification | H: Helper | during drilling. |

# Field Boring Log



| | | | | | |
|---|---|---|---|---|---|
| Site File No. | R1005189 | County Buncombe | Boring No. | GP-4 | Completion Depth 20 feet bgs |
| Site File Name | Volvo Construction Equipment | | **Surface Elev. | NA | Date Started 6.16.2010 |
| Fed ID No. | NA | | Auger Depth | NA | Date Finished 6.16.2010 |
| Quadrangle | Skyland, North Carolina | | | | |
| Boring Location** | See Figure 3 | | **NGVD: National Geodetic Vertical Datum (feet) | | |
| Drilling Equipment | Geoprobe® | | | | |

**Personnel**

S - Mike Couvreur, BB&J
H - Sergio Rojas, Brinkerhoff
D - Arlen, PTI
H- NA

| Depth in Feet | DESCRIPTION OF MATERIALS | Graphic Log | Depth in Feet | SAMPLE ID | SAMPLE TYPE | SAMPLE RECOVERY (IN) | PENETROMETER | N VALUES (BLOW COUNTS) | OVA OR PID READINGS (PPM) | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| | Concrete | | | | | | | | | Concrete (0 - 3 inches bgs) |
| 1 | Medium dense, reddish brown SAND (SC) trace clay and silt; dry | | 1 | A | G | 24 | | | NA | |
| 2 | | | 2 | | | | | | | |
| 3 | | | 3 | B | G | 24 | | | NA | |
| 4 | | | 4 | | | | | | | |
| 5 | | | 5 | C | G | 24 | | | NA | |
| 6 | | | 6 | | | | | | | |
| 7 | | | 7 | D | G | 24 | | | NA | |
| 8 | | | 8 | | | | | | | |
| 9 | | | 9 | E | G | 24 | | | NA | Sample submitted for laboratory analysis (8 to 10 feet bgs). |
| 10 | | | 10 | | | | | | | |
| 11 | | | 11 | F | G | 24 | | | NA | |
| 12 | | | 12 | | | | | | | |
| 13 | Medium dense, reddish brown SAND (SC) with clay and silt; dry | | 13 | G | G | 24 | | | NA | |
| 14 | | | 14 | | | | | | | |
| 15 | | | 15 | H | G | 24 | | | NA | |
| 16 | | | 16 | | | | | | | |
| 17 | | | 17 | I | G | 24 | | | NA | |
| 18 | | | 18 | | | | | | | |
| 19 | | | 19 | J | G | 24 | | | NA | |
| 20 | | | 20 | | | | | | | |

Probe terminated at 20 ft bgs.

NOTES:

| | | | | |
|---|---|---|---|---|
| NA: Not Applicable | G: Grab | Fed: Federal | P: Damp | S: Saturated |
| No: Number | C: Composite | ppm: parts per million | M: Moist | OV: Organic Vapors |
| NM: Not Measured | S: Sampler | D: Driller | W: Wet | Ground water encountered |
| Elev: Elevation | bgs: below ground surface | ID: Identification | H: Helper | during drilling. |

**APPENDIX C**

**FIELD PROCEDURES MANUAL**

# APPENDIX C
# FIELD PROCEDURES

The media targeted by this subsurface assessment and the sampling methods and protocol are described in this appendix.

## C.1 Sampling Equipment

The following sampling equipment will be used during field activities at the Subject Property:

- Geoprobe® direct-push technology (DPT) sampling equipment;
- Clean, plastic "Ziplock" bags for use in describing soil samples and for field screening purposes;
- Laboratory-supplied containers for the collection of soil and groundwater samples targeted for laboratory analyses;
- Phosphate-free soap, potable water and distilled water for equipment cleaning;
- Laboratory-supplied deionized water (purge water) for the preparation of quality assurance/quality control (QA/QC) samples;
- Disposable latex and/or nitrile gloves;
- Sample shipping containers (e.g., coolers); and,
- Sealed trip blanks, prepared by the laboratory using deionized water and shipped with the sample coolers.

## C.2 Soil Boring/Soil Probe Advancement and Soil Sampling Procedures

This section describes the various types of soil boring and/or soil probe techniques that will be used, as well as specific soil sample collection procedures.

### C.2.1 DPT Advancement Procedures

A Geoprobe® direct-push type sampling machine will be used to collect soil samples from the soil borings. The machine will advance a soil probe by means of a hydraulic hammer that will drive the sampler vertically into the ground. Soil samples will be collected using a 1.5-inch diameter, 36-inch or 48-inch long sampling tube with dedicated, disposable acetate liners. Use of a releasable plunger inside the tube will allow the sampler to be advanced to the desired depth and a discrete sample to be collected.

### C.2.2 DPT Soil Sample Collection and Classification Procedures

Upon retrieval, the soil sample will be removed from the sampler and visually classified by field personnel. Each soil sample will be split into two portions and placed in re-sealable plastic bags. One bag will be placed into a cooler with ice, and the other will be kept in a warm environment (approximately 70 degrees

Fahrenheit or greater) for approximately 10 minutes in an effort to promote volatilization of potential organic vapors within the soil.

After approximately 10 minutes, headspace screening using a PID will be performed on the soil sample kept in the warm environment. The PID will be calibrated daily in accordance with the manufacturer's directions. After a minimum of 10 minutes within a warm environment, the probe on the PID will be inserted into the soil bag, and a sample of headspace air will be withdrawn. The maximum reading will be recorded in the field book and/or on the soil boring log. Readings will be recorded in parts per million, referencing the calibration gas used.

Based on field screening and visual observations, field personnel will select a "worst case" soil sample from each location generally based on the following criteria:

- The soil sample that exhibited the highest PID screening results; and/or,
- Appeared to exhibit the most prominent staining; and/or,
- Exhibited the strongest potential chemical odor (or, in the absence of an apparent chemical odor, the strongest anomalous odor, as noted).

The selected soil sample's corresponding soil bag contained in the cooler on ice will then be packed in the appropriate laboratory-supplied containers for shipment to the laboratory for chemical analysis.

The soil contained in the soil bag used for field screening also will be used for classification. The soil will be visually classified by the on-site field personnel in accordance with American Society for Testing and Materials (ASTM) D 2488-93 and described on the appropriate field sampling form(s).

### C.2.3 Soil Sample Collection and Classification Procedures

Upon retrieval, the soil sample will be removed from the sampler and visually classified by field personnel. The soil will be visually classified by the on-site field personnel in accordance with American Society for Testing and Materials (ASTM) D 2488-93 and described on the appropriate field sampling form(s).

## C.3 Probehole Abandonment

Following the advancement of the soil probes, the probeholes will be backfilled with bentonite chips to approximately 6 inches below ground surface (bgs) inside the Subject Property. The surface above the probehole will then be patched with asphalt, soil or concrete, as necessary, to restore the original surface.

## C.4 Quality Assurance/Quality Control

The following sections outline QA/QC protocol, sample containers, sample preservation, sample identification and chain-of-custody procedures implemented during sampling activities.

### C.4.1 QA/QC Samples

**Equipment Rinsates**

Equipment rinsates will be collected to evaluate potential cross-contamination of samples during equipment cleaning procedures. The frequency of equipment rinsates will either be one per every 20 samples of a particular media sampled (e.g., soil, groundwater, etc.) or one for each type of sampling equipment used. The equipment rinsates will be collected by pouring deionized water provided by the laboratory over the sampling equipment and into sample containers. The equipment rinsates will be shipped with the soil and/or groundwater samples collected that day and will be analyzed for the same suite of potential constituents of concern (COCs) as the environmental samples.

**Trip Blanks**

Trip blank samples consisting of de-ionized water, provided by the analytical laboratory, will accompany the cooler(s) containing the samples from the laboratory, to the field and back to the laboratory. The trip blanks will be used to assess potential cross-contamination from the cooler and handling practices, in addition to assessing potential cross-contamination between samples. Trip blanks will be analyzed for BTEX only. One trip blank will be analyzed per cooler.

### C.4.2 Sample Containers and Preservation

Sample containers prepared by a commercial vendor will be provided by the laboratory.

### C.4.3 Sample Identification

Prior to sample collection, the appropriate container (with preservative, if applicable) will be labeled with the following information:

- Sample identification;
- Initials of collector;
- Date and time of collection;
- Analytical parameters requested; and,
- Preservative used.

Samples will be packed in coolers (with containerized ice) complete with custody seals and transported via overnight courier to the laboratory. Chain-of-custody documentation outlined as follows will accompany each shipment of samples to the laboratory.

### C.4.4 Chain-of-Custody Procedures

Chain-of-custody will begin when the pre-cleaned sample containers arrive in the field in coolers with signed and dated custody seals. At the time of sample collection, the labeled samples will be placed into an iced cooler. A line-item chain-of-custody form will then be completed by the sampler. Chain-of-custody will allow the samples to be traced from the time of collection to their receipt in the laboratory. Upon completion of all line items, the sampler signed, dated, listed the time, and checked the completeness of all descriptive information contained on the form. One copy of the completed chain-

of-custody will be retained by the sampler. Each individual who subsequently assumed responsibility for the samples signed the chain-of-custody record. The following items will be included on the chain-of-custody form:

- Sample identification;
- Signature of sampler;
- Date and time of collection;
- Sample type (i.e., aqueous or soil);
- Sample location;
- Number, size, and type of containers;
- Analytical parameters requested;
- Preservative (where applicable);
- Signatures of personnel involved in the chain of possession; and,
- Dates and times of relinquishment and receipt.

## C.5 Cleaning and Disposal of Investigation-Derived Wastes (IDW)

Cleaning procedures will be employed to minimize the potential for cross-contamination, off-site migration of potential COCs, and personal exposure to COCs. Solid materials and fluids generated during site assessment activities will be containerized on-site. The following sections summarize cleaning procedures and disposal of IDW.

### C.5.1 Equipment Cleaning

Equipment involved in field sampling activities will be cleaned prior to probehole advancement, sampling, or leaving the Subject Property. During soil sampling, cleaning of the sampling equipment will be conducted between each sample interval and included the following:

- Removal of visible sediment using brush and non-phosphate soap and potable water mixture; and,
- Potable water rinse.

## C.6 Record Keeping

BB&J field personnel will document the field activities (with corresponding times) and pertinent information in a dedicated project filed logbook. Information that will be recorded include: the names and companies of on-site personnel (BB&J, client, subcontractors, etc), weather conditions, and the purpose of activities and details of the fieldwork (e.g., soil conditions, sampling depths, etc.).

**APPENDIX D**

**LABORATORY ANALYTICAL REPORT**

**Pace Analytical Services, Inc.**
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(828)254-7176

**Pace Analytical Services, Inc.**
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

July 12, 2010

Mr. Sergio Rojas
Brinkerhoff Environmental Services, Inc.
1913 Atlantic Avenue
Manasquan, NJ 08736

RE: Project: Volvo : Asheville
Pace Project No.: 9271695

Dear Mr. Rojas:
Enclosed are the analytical results for sample(s) received by the laboratory on June 17, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Huntersville laboratory unless otherwise footnoted. All Microbiological analyses were performed at the laboratory where the samples were received.

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

Sincerely,

Lorri Patton

Lorri Patton

lorri.patton@pacelabs.com
Project Manager

Enclosures



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# CERTIFICATIONS

Project: Volvo : Asheville
Pace Project No.: 9271695

**Ormond Beach Certification IDs**
8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Arizona Certification #: AZ0735
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH 0216
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: LA090012
Louisiana Environmental Certificate #: 05007
Maine Certification #: FL1264
Massachusetts Certification #: M-FL1264
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Montana Certification #: Cert 0074
Nevada Certification: FL NELAC Reciprocity
New Hampshire Certification #: 2958
New Jersey Certification #: FL765
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
Pennsylvania Certification #: 68-547
Puerto Rico Certification #: FL01264
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
Virginia Certification #: 00432
Wyoming Certification: FL NELAC Reciprocity

**Charlotte Certification IDs**
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/LELAP Certification #: 04034
New Jersey Certification #: NC012
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
Pennsylvania Certification #: 68-00784
South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Virginia Certification #: 00213
Connecticut Certification #: PH-0104
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DHH Drinking Water # LA 100031

**Asheville Certification IDs**
2225 Riverside Dr., Asheville, NC 28804
Connecticut Certification #: PH-0106
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
New Jersey Certification #: NC011
North Carolina Bioassay Certification #: 9
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
Pennsylvania Certification #: 68-03578
South Carolina Bioassay Certification #: 9903002
South Carolina Certification #: 9903001
Virginia Certification #: 00072



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# SAMPLE ANALYTE COUNT

Project: Volvo : Asheville
Pace Project No.: 9271695

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|---|---|---|---|---|---|
| **9271695001** | **GP1 (4-6)** | EPA 6010 | JMW | 7 | PASI-A |
| | | EPA 7471 | SHB | 1 | PASI-A |
| | | ASTM D2974-87 | TNM | 1 | PASI-C |
| | | Trivalent Chromium Calculation | EWS | 1 | PASI-A |
| | | EPA 7196 | EWS | 1 | PASI-A |
| **9271695002** | **GP2 (6-8)** | EPA 6010 | JMW | 7 | PASI-A |
| | | EPA 7471 | SHB | 1 | PASI-A |
| | | ASTM D2974-87 | TNM | 1 | PASI-C |
| | | Trivalent Chromium Calculation | EWS | 1 | PASI-A |
| | | EPA 7196 | EWS | 1 | PASI-A |
| **9271695003** | **GP3 (2-4)** | EPA 6010 | JMW | 7 | PASI-A |
| | | EPA 7471 | SHB | 1 | PASI-A |
| | | ASTM D2974-87 | TNM | 1 | PASI-C |
| | | Trivalent Chromium Calculation | EWS | 1 | PASI-A |
| | | EPA 7196 | EWS | 1 | PASI-A |
| **9271695004** | **GP4 (8-10)** | EPA 6010 | JMW | 7 | PASI-A |
| | | EPA 7471 | SHB | 1 | PASI-A |
| | | ASTM D2974-87 | TNM | 1 | PASI-C |
| | | Trivalent Chromium Calculation | EWS | 1 | PASI-A |
| | | EPA 7196 | EWS | 1 | PASI-A |
| **9271695005** | **CS1** | EPA 6010 | JMW | 7 | PASI-A |
| | | EPA 7471 | SHB | 1 | PASI-A |
| | | ASTM D2974-87 | TNM | 1 | PASI-C |
| | | Trivalent Chromium Calculation | EWS | 1 | PASI-A |
| | | EPA 7196 | EWS | 1 | PASI-A |
| **9271695006** | **GP5 (12-14)** | EPA 8015 Modified | RES | 2 | PASI-C |
| | | EPA 8015 Modified | AW | 2 | PASI-C |
| | | EPA 8270 | BPJ | 74 | PASI-C |
| | | EPA 8260 | DLK | 71 | PASI-C |
| | | ASTM D2974-87 | TNM | 1 | PASI-C |
| **9271695007** | **GP6 (6-8)** | EPA 8015 Modified | RES | 2 | PASI-C |
| | | EPA 8015 Modified | AW | 2 | PASI-C |
| | | EPA 8270 | BPJ | 74 | PASI-C |
| | | EPA 8260 | DLK | 71 | PASI-C |
| | | ASTM D2974-87 | TNM | 1 | PASI-C |
| **9271695008** | **GP7 (6-8)** | EPA 8081 | AE1, JLY | 22 | PASI-O |
| | | EPA 8082 | CAH | 8 | PASI-C |



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# SAMPLE ANALYTE COUNT

Project: Volvo : Asheville
Pace Project No.: 9271695

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|---|---|---|---|---|---|
| | | MADEP EPH | RES | 7 | PASI-C |
| | | MADEP VPH | AW | 5 | PASI-C |
| | | EPA 6010 | JMW | 2 | PASI-A |
| | | EPA 8270 | BPJ | 74 | PASI-C |
| | | EPA 8260 | DLK | 71 | PASI-C |
| | | ASTM D2974-87 | TNM | 1 | PASI-C |
| | | Trivalent Chromium Calculation | EWS | 1 | PASI-A |
| | | EPA 7196 | EWS | 1 | PASI-A |
| **9271695009** | **PSS1 (16-18)** | EPA 8081 | AE1, JLY | 22 | PASI-O |
| | | EPA 8082 | CAH | 8 | PASI-C |
| | | MADEP EPH | RES | 7 | PASI-C |
| | | MADEP VPH | AW | 5 | PASI-C |
| | | EPA 6010 | JMW | 2 | PASI-A |
| | | EPA 8270 | BPJ | 74 | PASI-C |
| | | EPA 8260 | DLK | 71 | PASI-C |
| | | ASTM D2974-87 | TNM | 1 | PASI-C |
| | | Trivalent Chromium Calculation | EWS | 1 | PASI-A |
| | | EPA 7196 | EWS | 1 | PASI-A |
| **9271695010** | **PSS2 (14-15)** | EPA 8081 | AE1, JLY | 22 | PASI-O |
| | | EPA 8082 | CAH | 8 | PASI-C |
| | | MADEP EPH | RES | 7 | PASI-C |
| | | MADEP VPH | AW | 5 | PASI-C |
| | | EPA 6010 | JMW | 2 | PASI-A |
| | | EPA 8270 | BPJ | 74 | PASI-C |
| | | EPA 8260 | DLK | 71 | PASI-C |
| | | ASTM D2974-87 | TNM | 1 | PASI-C |
| | | Trivalent Chromium Calculation | EWS | 1 | PASI-A |
| | | EPA 7196 | EWS | 1 | PASI-A |
| **9271695011** | **PSS3 (10-12)** | EPA 8081 | AE1, JLY | 22 | PASI-O |
| | | EPA 8082 | CAH | 8 | PASI-C |
| | | MADEP EPH | RES | 7 | PASI-C |
| | | MADEP VPH | AW | 5 | PASI-C |
| | | EPA 6010 | JMW | 2 | PASI-A |
| | | EPA 8270 | BPJ | 74 | PASI-C |
| | | EPA 8260 | DLK | 71 | PASI-C |
| | | ASTM D2974-87 | TNM | 1 | PASI-C |
| | | Trivalent Chromium Calculation | EWS | 1 | PASI-A |



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# SAMPLE ANALYTE COUNT

Project: Volvo : Asheville
Pace Project No.: 9271695

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|---|---|---|---|---|---|
| | | EPA 7196 | EWS | 1 | PASI-A |
| **9271695012** | **MW1** | MADEP EPH | RES | 7 | PASI-C |
| | | MADEP VPH | AW | 5 | PASI-C |
| | | EPA 6010 | JMW | 2 | PASI-A |
| | | EPA 625 | PPM | 58 | PASI-C |
| | | SM 6200B | TLS | 64 | PASI-C |
| **9271695013** | **EQR-GP** | EPA 8015 Modified | RES | 2 | PASI-C |
| | | EPA 8081 | JLY | 21 | PASI-O |
| | | EPA 8082 | CAH | 8 | PASI-C |
| | | MADEP EPH | RES | 5 | PASI-C |
| | | EPA 5030/8015 Mod. | AW | 2 | PASI-C |
| | | MADEP VPH | AW | 5 | PASI-C |
| | | EPA 6010 | JMW | 7 | PASI-A |
| | | EPA 7470 | SHB | 1 | PASI-A |
| | | EPA 625 | PPM | 58 | PASI-C |
| | | SM 6200B | TLS | 64 | PASI-C |
| **9271695014** | **EQR-PUMP** | EPA 8015 Modified | RES | 2 | PASI-C |
| | | EPA 8081 | JLY | 21 | PASI-O |
| | | EPA 8082 | CAH | 8 | PASI-C |
| | | MADEP EPH | RES | 5 | PASI-C |
| | | EPA 5030/8015 Mod. | AW | 2 | PASI-C |
| | | MADEP VPH | AW | 5 | PASI-C |
| | | EPA 6010 | JMW | 7 | PASI-A |
| | | EPA 7470 | SHB | 1 | PASI-A |
| | | EPA 625 | PPM | 58 | PASI-C |
| | | SM 6200B | TLS | 64 | PASI-C |
| **9271695015** | **Trip Blank** | SM 6200B | TLS | 64 | PASI-C |



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# ANALYTICAL RESULTS

Project: Volvo : Asheville
Pace Project No.: 9271695

**Sample: GP1 (4-6)** **Lab ID: 9271695001** Collected: 06/15/10 14:05 Received: 06/17/10 08:00 Matrix: Solid

***Results reported on a "dry-weight" basis***

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **6010 MET ICP** | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | |
| Arsenic | ND | mg/kg | 0.47 | 1 | 06/18/10 15:25 | 06/21/10 17:21 | 7440-38-2 | |
| Barium | **108** | mg/kg | 0.47 | 1 | 06/18/10 15:25 | 06/21/10 17:21 | 7440-39-3 | |
| Cadmium | **2.4** | mg/kg | 0.093 | 1 | 06/18/10 15:25 | 06/21/10 17:21 | 7440-43-9 | |
| Chromium | **27.8** | mg/kg | 0.47 | 1 | 06/18/10 15:25 | 06/21/10 17:21 | 7440-47-3 | |
| Lead | **9.1** | mg/kg | 0.47 | 1 | 06/18/10 15:25 | 06/21/10 17:21 | 7439-92-1 | |
| Selenium | ND | mg/kg | 0.93 | 1 | 06/18/10 15:25 | 06/21/10 17:21 | 7782-49-2 | |
| Silver | ND | mg/kg | 0.47 | 1 | 06/18/10 15:25 | 06/21/10 17:21 | 7440-22-4 | |
| **7471 Mercury** | Analytical Method: EPA 7471 Preparation Method: EPA 7471 | | | | | | | |
| Mercury | ND | mg/kg | 0.0035 | 1 | 06/22/10 10:00 | 06/22/10 12:41 | 7439-97-6 | |
| **Percent Moisture** | Analytical Method: ASTM D2974-87 | | | | | | | |
| Percent Moisture | **16.4** | % | 0.10 | 1 | | 06/18/10 13:18 | | |
| **Trivalent Chromium Calculation** | Analytical Method: Trivalent Chromium Calculation | | | | | | | |
| Chromium, Trivalent | **27.8** | mg/kg | 5.0 | 1 | | 07/09/10 09:19 | 16065-83-1 | |
| **7196 Chromium, Hexavalent** | Analytical Method: EPA 7196 Preparation Method: EPA 7196 | | | | | | | |
| Chromium, Hexavalent | ND | mg/kg | 5.3 | 1 | 07/08/10 14:00 | 07/08/10 15:01 | 18540-29-9 | |



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# ANALYTICAL RESULTS

Project: Volvo : Asheville
Pace Project No.: 9271695

**Sample: GP2 (6-8)** **Lab ID: 9271695002** Collected: 06/15/10 14:10 Received: 06/17/10 08:00 Matrix: Solid

***Results reported on a "dry-weight" basis***

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **6010 MET ICP** | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | |
| Arsenic | ND | mg/kg | 0.44 | 1 | 06/18/10 15:25 | 06/21/10 17:24 | 7440-38-2 | |
| Barium | **62.9** | mg/kg | 0.44 | 1 | 06/18/10 15:25 | 06/21/10 17:24 | 7440-39-3 | |
| Cadmium | **1.6** | mg/kg | 0.087 | 1 | 06/18/10 15:25 | 06/21/10 17:24 | 7440-43-9 | |
| Chromium | **29.2** | mg/kg | 0.44 | 1 | 06/18/10 15:25 | 06/21/10 17:24 | 7440-47-3 | |
| Lead | **15.4** | mg/kg | 0.44 | 1 | 06/18/10 15:25 | 06/21/10 17:24 | 7439-92-1 | |
| Selenium | ND | mg/kg | 0.87 | 1 | 06/18/10 15:25 | 06/21/10 17:24 | 7782-49-2 | |
| Silver | ND | mg/kg | 0.44 | 1 | 06/18/10 15:25 | 06/21/10 17:24 | 7440-22-4 | |
| **7471 Mercury** | Analytical Method: EPA 7471 Preparation Method: EPA 7471 | | | | | | | |
| Mercury | ND | mg/kg | 0.0037 | 1 | 06/23/10 14:00 | 06/24/10 13:09 | 7439-97-6 | |
| **Percent Moisture** | Analytical Method: ASTM D2974-87 | | | | | | | |
| Percent Moisture | **24.5** | % | 0.10 | 1 | | 06/18/10 13:18 | | |
| **Trivalent Chromium Calculation** | Analytical Method: Trivalent Chromium Calculation | | | | | | | |
| Chromium, Trivalent | **29.2** | mg/kg | 5.0 | 1 | | 07/09/10 09:19 | 16065-83-1 | |
| **7196 Chromium, Hexavalent** | Analytical Method: EPA 7196 Preparation Method: EPA 7196 | | | | | | | |
| Chromium, Hexavalent | ND | mg/kg | 5.8 | 1 | 07/08/10 14:00 | 07/08/10 15:01 | 18540-29-9 | |



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# ANALYTICAL RESULTS

Project: Volvo : Asheville
Pace Project No.: 9271695

**Sample: GP3 (2-4)** **Lab ID: 9271695003** Collected: 06/15/10 14:15 Received: 06/17/10 08:00 Matrix: Solid

***Results reported on a "dry-weight" basis***

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **6010 MET ICP** | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | |
| Arsenic | ND | mg/kg | 0.32 | 1 | 06/18/10 15:25 | 06/21/10 17:27 | 7440-38-2 | |
| Barium | **47.0** | mg/kg | 0.32 | 1 | 06/18/10 15:25 | 06/21/10 17:27 | 7440-39-3 | |
| Cadmium | **0.50** | mg/kg | 0.064 | 1 | 06/18/10 15:25 | 06/21/10 17:27 | 7440-43-9 | |
| Chromium | **15.4** | mg/kg | 0.32 | 1 | 06/18/10 15:25 | 06/21/10 17:27 | 7440-47-3 | |
| Lead | **14.6** | mg/kg | 0.32 | 1 | 06/18/10 15:25 | 06/21/10 17:27 | 7439-92-1 | |
| Selenium | ND | mg/kg | 0.64 | 1 | 06/18/10 15:25 | 06/21/10 17:27 | 7782-49-2 | |
| Silver | ND | mg/kg | 0.32 | 1 | 06/18/10 15:25 | 06/21/10 17:27 | 7440-22-4 | |
| **7471 Mercury** | Analytical Method: EPA 7471 Preparation Method: EPA 7471 | | | | | | | |
| Mercury | **0.019** | mg/kg | 0.0047 | 1 | 06/23/10 14:00 | 06/24/10 13:13 | 7439-97-6 | |
| **Percent Moisture** | Analytical Method: ASTM D2974-87 | | | | | | | |
| Percent Moisture | **18.2** | % | 0.10 | 1 | | 06/18/10 13:18 | | |
| **Trivalent Chromium Calculation** | Analytical Method: Trivalent Chromium Calculation | | | | | | | |
| Chromium, Trivalent | **15.4** | mg/kg | 5.0 | 1 | | 07/09/10 09:19 | 16065-83-1 | |
| **7196 Chromium, Hexavalent** | Analytical Method: EPA 7196 Preparation Method: EPA 7196 | | | | | | | |
| Chromium, Hexavalent | ND | mg/kg | 5.6 | 1 | 07/08/10 14:00 | 07/08/10 15:01 | 18540-29-9 | |



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# ANALYTICAL RESULTS

Project: Volvo : Asheville
Pace Project No.: 9271695

**Sample: GP4 (8-10)** **Lab ID: 9271695004** Collected: 06/16/10 13:30 Received: 06/17/10 08:00 Matrix: Solid

***Results reported on a "dry-weight" basis***

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **6010 MET ICP** | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | |
| Arsenic | ND | mg/kg | 0.47 | 1 | 06/18/10 15:25 | 06/21/10 17:31 | 7440-38-2 | |
| Barium | **33.8** | mg/kg | 0.47 | 1 | 06/18/10 15:25 | 06/21/10 17:31 | 7440-39-3 | |
| Cadmium | **1.5** | mg/kg | 0.094 | 1 | 06/18/10 15:25 | 06/21/10 17:31 | 7440-43-9 | |
| Chromium | **37.7** | mg/kg | 0.47 | 1 | 06/18/10 15:25 | 06/21/10 17:31 | 7440-47-3 | |
| Lead | **10.7** | mg/kg | 0.47 | 1 | 06/18/10 15:25 | 06/21/10 17:31 | 7439-92-1 | |
| Selenium | ND | mg/kg | 0.94 | 1 | 06/18/10 15:25 | 06/21/10 17:31 | 7782-49-2 | |
| Silver | ND | mg/kg | 0.47 | 1 | 06/18/10 15:25 | 06/21/10 17:31 | 7440-22-4 | |
| **7471 Mercury** | Analytical Method: EPA 7471 Preparation Method: EPA 7471 | | | | | | | |
| Mercury | ND | mg/kg | 0.0056 | 1 | 06/23/10 14:00 | 06/24/10 13:18 | 7439-97-6 | |
| **Percent Moisture** | Analytical Method: ASTM D2974-87 | | | | | | | |
| Percent Moisture | **20.8** | % | 0.10 | 1 | | 06/18/10 13:19 | | |
| **Trivalent Chromium Calculation** | Analytical Method: Trivalent Chromium Calculation | | | | | | | |
| Chromium, Trivalent | **37.7** | mg/kg | 5.0 | 1 | | 07/09/10 09:19 | 16065-83-1 | |
| **7196 Chromium, Hexavalent** | Analytical Method: EPA 7196 Preparation Method: EPA 7196 | | | | | | | |
| Chromium, Hexavalent | ND | mg/kg | 6.0 | 1 | 07/08/10 14:00 | 07/08/10 15:01 | 18540-29-9 | |



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# ANALYTICAL RESULTS

Project: Volvo : Asheville
Pace Project No.: 9271695

**Sample: CS1** **Lab ID: 9271695005** Collected: 06/15/10 14:00 Received: 06/17/10 08:00 Matrix: Solid

***Results reported on a "dry-weight" basis***

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **6010 MET ICP** | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | |
| Arsenic | **1.3** | mg/kg | 0.27 | 1 | 06/18/10 15:25 | 06/21/10 17:34 | 7440-38-2 | |
| Barium | **1140** | mg/kg | 2.7 | 10 | 06/18/10 15:25 | 06/22/10 14:59 | 7440-39-3 | |
| Cadmium | **2.0** | mg/kg | 0.054 | 1 | 06/18/10 15:25 | 06/21/10 17:34 | 7440-43-9 | |
| Chromium | **29.1** | mg/kg | 0.27 | 1 | 06/18/10 15:25 | 06/21/10 17:34 | 7440-47-3 | |
| Lead | **21.5** | mg/kg | 0.27 | 1 | 06/18/10 15:25 | 06/21/10 17:34 | 7439-92-1 | |
| Selenium | ND | mg/kg | 0.54 | 1 | 06/18/10 15:25 | 06/21/10 17:34 | 7782-49-2 | |
| Silver | **0.33** | mg/kg | 0.27 | 1 | 06/18/10 15:25 | 06/21/10 17:34 | 7440-22-4 | |
| **7471 Mercury** | Analytical Method: EPA 7471 Preparation Method: EPA 7471 | | | | | | | |
| Mercury | **0.0083** | mg/kg | 0.0026 | 1 | 06/23/10 14:00 | 06/24/10 13:21 | 7439-97-6 | |
| **Percent Moisture** | Analytical Method: ASTM D2974-87 | | | | | | | |
| Percent Moisture | **0.69** | % | 0.10 | 1 | | 06/18/10 13:19 | | |
| **Trivalent Chromium Calculation** | Analytical Method: Trivalent Chromium Calculation | | | | | | | |
| Chromium, Trivalent | **29.1** | mg/kg | 5.0 | 1 | | 07/09/10 09:19 | 16065-83-1 | |
| **7196 Chromium, Hexavalent** | Analytical Method: EPA 7196 Preparation Method: EPA 7196 | | | | | | | |
| Chromium, Hexavalent | ND | mg/kg | 4.9 | 1 | 07/08/10 14:00 | 07/08/10 15:01 | 18540-29-9 | |



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# ANALYTICAL RESULTS

Project: Volvo : Asheville
Pace Project No.: 9271695

**Sample: GP5 (12-14)** **Lab ID: 9271695006** Collected: 06/16/10 14:20 Received: 06/17/10 08:00 Matrix: Solid

***Results reported on a "dry-weight" basis***

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **8015 GCS THC-Diesel** | Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546 | | | | | | | |
| Diesel Components | ND | mg/kg | 6.5 | 1 | 06/21/10 08:30 | 06/22/10 17:38 | 68334-30-5 | |
| n-Pentacosane (S) | 73 | % | 41-119 | 1 | 06/21/10 08:30 | 06/22/10 17:38 | 629-99-2 | |
| **Gasoline Range Organics** | Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B | | | | | | | |
| Gasoline Range Organics | ND | mg/kg | 5.4 | 1 | 06/21/10 15:31 | 06/22/10 01:44 | 8006-61-9 | |
| 4-Bromofluorobenzene (S) | 146 | % | 70-167 | 1 | 06/21/10 15:31 | 06/22/10 01:44 | 460-00-4 | |
| **8270 MSSV FULL LIST MICROWAVE** | Analytical Method: EPA 8270 Preparation Method: EPA 3546 | | | | | | | |
| Acenaphthene | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 17:07 | 83-32-9 | |
| Acenaphthylene | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 17:07 | 208-96-8 | |
| Aniline | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 17:07 | 62-53-3 | |
| Anthracene | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 17:07 | 120-12-7 | |
| Benzo(a)anthracene | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 17:07 | 56-55-3 | |
| Benzo(a)pyrene | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 17:07 | 50-32-8 | |
| Benzo(b)fluoranthene | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 17:07 | 205-99-2 | |
| Benzo(g,h,i)perylene | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 17:07 | 191-24-2 | |
| Benzo(k)fluoranthene | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 17:07 | 207-08-9 | |
| Benzoic Acid | ND | ug/kg | 2130 | 1 | 06/21/10 10:30 | 06/28/10 17:07 | 65-85-0 | |
| Benzyl alcohol | ND | ug/kg | 853 | 1 | 06/21/10 10:30 | 06/28/10 17:07 | 100-51-6 | |
| 4-Bromophenylphenyl ether | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 17:07 | 101-55-3 | |
| Butylbenzylphthalate | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 17:07 | 85-68-7 | |
| 4-Chloro-3-methylphenol | ND | ug/kg | 853 | 1 | 06/21/10 10:30 | 06/28/10 17:07 | 59-50-7 | |
| 4-Chloroaniline | ND | ug/kg | 2130 | 1 | 06/21/10 10:30 | 06/28/10 17:07 | 106-47-8 | |
| bis(2-Chloroethoxy)methane | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 17:07 | 111-91-1 | |
| bis(2-Chloroethyl) ether | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 17:07 | 111-44-4 | |
| bis(2-Chloroisopropyl) ether | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 17:07 | 108-60-1 | |
| 2-Chloronaphthalene | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 17:07 | 91-58-7 | |
| 2-Chlorophenol | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 17:07 | 95-57-8 | |
| 4-Chlorophenylphenyl ether | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 17:07 | 7005-72-3 | |
| Chrysene | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 17:07 | 218-01-9 | |
| Dibenz(a,h)anthracene | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 17:07 | 53-70-3 | |
| Dibenzofuran | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 17:07 | 132-64-9 | |
| 1,2-Dichlorobenzene | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 17:07 | 95-50-1 | |
| 1,3-Dichlorobenzene | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 17:07 | 541-73-1 | |
| 1,4-Dichlorobenzene | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 17:07 | 106-46-7 | |
| 3,3'-Dichlorobenzidine | ND | ug/kg | 2130 | 1 | 06/21/10 10:30 | 06/28/10 17:07 | 91-94-1 | |
| 2,4-Dichlorophenol | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 17:07 | 120-83-2 | |
| Diethylphthalate | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 17:07 | 84-66-2 | |
| 2,4-Dimethylphenol | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 17:07 | 105-67-9 | |
| Dimethylphthalate | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 17:07 | 131-11-3 | |
| Di-n-butylphthalate | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 17:07 | 84-74-2 | |
| 4,6-Dinitro-2-methylphenol | ND | ug/kg | 853 | 1 | 06/21/10 10:30 | 06/28/10 17:07 | 534-52-1 | |
| 2,4-Dinitrophenol | ND | ug/kg | 2130 | 1 | 06/21/10 10:30 | 06/28/10 17:07 | 51-28-5 | |
| 2,4-Dinitrotoluene | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 17:07 | 121-14-2 | |
| 2,6-Dinitrotoluene | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 17:07 | 606-20-2 | |



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# ANALYTICAL RESULTS

Project: Volvo : Asheville
Pace Project No.: 9271695

**Sample: GP5 (12-14)** **Lab ID: 9271695006** Collected: 06/16/10 14:20 Received: 06/17/10 08:00 Matrix: Solid

***Results reported on a "dry-weight" basis***

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **8270 MSSV FULL LIST MICROWAVE** | Analytical Method: EPA 8270 Preparation Method: EPA 3546 | | | | | | | |
| Di-n-octylphthalate | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 17:07 | 117-84-0 | |
| bis(2-Ethylhexyl)phthalate | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 17:07 | 117-81-7 | |
| Fluoranthene | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 17:07 | 206-44-0 | |
| Fluorene | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 17:07 | 86-73-7 | |
| Hexachloro-1,3-butadiene | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 17:07 | 87-68-3 | |
| Hexachlorobenzene | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 17:07 | 118-74-1 | |
| Hexachlorocyclopentadiene | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 17:07 | 77-47-4 | |
| Hexachloroethane | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 17:07 | 67-72-1 | |
| Indeno(1,2,3-cd)pyrene | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 17:07 | 193-39-5 | |
| Isophorone | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 17:07 | 78-59-1 | |
| 1-Methylnaphthalene | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 17:07 | 90-12-0 | |
| 2-Methylnaphthalene | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 17:07 | 91-57-6 | |
| 2-Methylphenol(o-Cresol) | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 17:07 | 95-48-7 | |
| 3&4-Methylphenol(m&p Cresol) | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 17:07 | | |
| Naphthalene | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 17:07 | 91-20-3 | |
| 2-Nitroaniline | ND | ug/kg | 2130 | 1 | 06/21/10 10:30 | 06/28/10 17:07 | 88-74-4 | |
| 3-Nitroaniline | ND | ug/kg | 2130 | 1 | 06/21/10 10:30 | 06/28/10 17:07 | 99-09-2 | |
| 4-Nitroaniline | ND | ug/kg | 853 | 1 | 06/21/10 10:30 | 06/28/10 17:07 | 100-01-6 | |
| Nitrobenzene | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 17:07 | 98-95-3 | |
| 2-Nitrophenol | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 17:07 | 88-75-5 | |
| 4-Nitrophenol | ND | ug/kg | 2130 | 1 | 06/21/10 10:30 | 06/28/10 17:07 | 100-02-7 | |
| N-Nitrosodimethylamine | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 17:07 | 62-75-9 | |
| N-Nitroso-di-n-propylamine | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 17:07 | 621-64-7 | |
| N-Nitrosodiphenylamine | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 17:07 | 86-30-6 | |
| Pentachlorophenol | ND | ug/kg | 2130 | 1 | 06/21/10 10:30 | 06/28/10 17:07 | 87-86-5 | |
| Phenanthrene | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 17:07 | 85-01-8 | |
| Phenol | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 17:07 | 108-95-2 | |
| Pyrene | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 17:07 | 129-00-0 | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 17:07 | 120-82-1 | |
| 2,4,5-Trichlorophenol | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 17:07 | 95-95-4 | |
| 2,4,6-Trichlorophenol | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 17:07 | 88-06-2 | |
| Nitrobenzene-d5 (S) | 54 | % | 23-110 | 1 | 06/21/10 10:30 | 06/28/10 17:07 | 4165-60-0 | |
| 2-Fluorobiphenyl (S) | 55 | % | 30-110 | 1 | 06/21/10 10:30 | 06/28/10 17:07 | 321-60-8 | |
| Terphenyl-d14 (S) | 72 | % | 28-110 | 1 | 06/21/10 10:30 | 06/28/10 17:07 | 1718-51-0 | |
| Phenol-d6 (S) | 57 | % | 22-110 | 1 | 06/21/10 10:30 | 06/28/10 17:07 | 13127-88-3 | |
| 2-Fluorophenol (S) | 54 | % | 13-110 | 1 | 06/21/10 10:30 | 06/28/10 17:07 | 367-12-4 | |
| 2,4,6-Tribromophenol (S) | 78 | % | 27-110 | 1 | 06/21/10 10:30 | 06/28/10 17:07 | 118-79-6 | |
| **8260/5035A Volatile Organics** | Analytical Method: EPA 8260 | | | | | | | |
| Acetone | ND | ug/kg | 101 | 1 | | 06/23/10 18:46 | 67-64-1 | |
| Benzene | ND | ug/kg | 5.0 | 1 | | 06/23/10 18:46 | 71-43-2 | |
| Bromobenzene | ND | ug/kg | 5.0 | 1 | | 06/23/10 18:46 | 108-86-1 | |
| Bromochloromethane | ND | ug/kg | 5.0 | 1 | | 06/23/10 18:46 | 74-97-5 | |
| Bromodichloromethane | ND | ug/kg | 5.0 | 1 | | 06/23/10 18:46 | 75-27-4 | |
| Bromoform | ND | ug/kg | 5.0 | 1 | | 06/23/10 18:46 | 75-25-2 | |



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# ANALYTICAL RESULTS

Project: Volvo : Asheville
Pace Project No.: 9271695

**Sample: GP5 (12-14)** **Lab ID: 9271695006** Collected: 06/16/10 14:20 Received: 06/17/10 08:00 Matrix: Solid

***Results reported on a "dry-weight" basis***

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **8260/5035A Volatile Organics** | Analytical Method: EPA 8260 | | | | | | | |
| Bromomethane | ND | ug/kg | 10.1 | 1 | | 06/23/10 18:46 | 74-83-9 | |
| 2-Butanone (MEK) | ND | ug/kg | 101 | 1 | | 06/23/10 18:46 | 78-93-3 | |
| n-Butylbenzene | ND | ug/kg | 5.0 | 1 | | 06/23/10 18:46 | 104-51-8 | |
| sec-Butylbenzene | ND | ug/kg | 5.0 | 1 | | 06/23/10 18:46 | 135-98-8 | |
| tert-Butylbenzene | ND | ug/kg | 5.0 | 1 | | 06/23/10 18:46 | 98-06-6 | |
| Carbon tetrachloride | ND | ug/kg | 5.0 | 1 | | 06/23/10 18:46 | 56-23-5 | |
| Chlorobenzene | ND | ug/kg | 5.0 | 1 | | 06/23/10 18:46 | 108-90-7 | |
| Chloroethane | ND | ug/kg | 10.1 | 1 | | 06/23/10 18:46 | 75-00-3 | |
| Chloroform | ND | ug/kg | 5.0 | 1 | | 06/23/10 18:46 | 67-66-3 | |
| Chloromethane | ND | ug/kg | 10.1 | 1 | | 06/23/10 18:46 | 74-87-3 | |
| 2-Chlorotoluene | ND | ug/kg | 5.0 | 1 | | 06/23/10 18:46 | 95-49-8 | |
| 4-Chlorotoluene | ND | ug/kg | 5.0 | 1 | | 06/23/10 18:46 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 5.0 | 1 | | 06/23/10 18:46 | 96-12-8 | |
| Dibromochloromethane | ND | ug/kg | 5.0 | 1 | | 06/23/10 18:46 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | ND | ug/kg | 5.0 | 1 | | 06/23/10 18:46 | 106-93-4 | |
| Dibromomethane | ND | ug/kg | 5.0 | 1 | | 06/23/10 18:46 | 74-95-3 | |
| 1,2-Dichlorobenzene | ND | ug/kg | 5.0 | 1 | | 06/23/10 18:46 | 95-50-1 | |
| 1,3-Dichlorobenzene | ND | ug/kg | 5.0 | 1 | | 06/23/10 18:46 | 541-73-1 | |
| 1,4-Dichlorobenzene | ND | ug/kg | 5.0 | 1 | | 06/23/10 18:46 | 106-46-7 | |
| Dichlorodifluoromethane | ND | ug/kg | 10.1 | 1 | | 06/23/10 18:46 | 75-71-8 | |
| 1,1-Dichloroethane | ND | ug/kg | 5.0 | 1 | | 06/23/10 18:46 | 75-34-3 | |
| 1,2-Dichloroethane | ND | ug/kg | 5.0 | 1 | | 06/23/10 18:46 | 107-06-2 | |
| 1,1-Dichloroethene | ND | ug/kg | 5.0 | 1 | | 06/23/10 18:46 | 75-35-4 | |
| cis-1,2-Dichloroethene | ND | ug/kg | 5.0 | 1 | | 06/23/10 18:46 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/kg | 5.0 | 1 | | 06/23/10 18:46 | 156-60-5 | |
| 1,2-Dichloropropane | ND | ug/kg | 5.0 | 1 | | 06/23/10 18:46 | 78-87-5 | |
| 1,3-Dichloropropane | ND | ug/kg | 5.0 | 1 | | 06/23/10 18:46 | 142-28-9 | |
| 2,2-Dichloropropane | ND | ug/kg | 5.0 | 1 | | 06/23/10 18:46 | 594-20-7 | |
| 1,1-Dichloropropene | ND | ug/kg | 5.0 | 1 | | 06/23/10 18:46 | 563-58-6 | |
| cis-1,3-Dichloropropene | ND | ug/kg | 5.0 | 1 | | 06/23/10 18:46 | 10061-01-5 | |
| trans-1,3-Dichloropropene | ND | ug/kg | 5.0 | 1 | | 06/23/10 18:46 | 10061-02-6 | |
| Diisopropyl ether | ND | ug/kg | 5.0 | 1 | | 06/23/10 18:46 | 108-20-3 | |
| Ethylbenzene | ND | ug/kg | 5.0 | 1 | | 06/23/10 18:46 | 100-41-4 | |
| Hexachloro-1,3-butadiene | ND | ug/kg | 5.0 | 1 | | 06/23/10 18:46 | 87-68-3 | |
| 2-Hexanone | ND | ug/kg | 50.4 | 1 | | 06/23/10 18:46 | 591-78-6 | |
| Isopropylbenzene (Cumene) | ND | ug/kg | 5.0 | 1 | | 06/23/10 18:46 | 98-82-8 | |
| p-Isopropyltoluene | ND | ug/kg | 5.0 | 1 | | 06/23/10 18:46 | 99-87-6 | |
| Methylene Chloride | **33.1** | ug/kg | 20.2 | 1 | | 06/23/10 18:46 | 75-09-2 | C9 |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/kg | 50.4 | 1 | | 06/23/10 18:46 | 108-10-1 | |
| Methyl-tert-butyl ether | ND | ug/kg | 5.0 | 1 | | 06/23/10 18:46 | 1634-04-4 | |
| Naphthalene | ND | ug/kg | 5.0 | 1 | | 06/23/10 18:46 | 91-20-3 | |
| n-Propylbenzene | ND | ug/kg | 5.0 | 1 | | 06/23/10 18:46 | 103-65-1 | |
| Styrene | ND | ug/kg | 5.0 | 1 | | 06/23/10 18:46 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | ND | ug/kg | 5.0 | 1 | | 06/23/10 18:46 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 5.0 | 1 | | 06/23/10 18:46 | 79-34-5 | |
| Tetrachloroethene | ND | ug/kg | 5.0 | 1 | | 06/23/10 18:46 | 127-18-4 | |



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# ANALYTICAL RESULTS

Project: Volvo : Asheville
Pace Project No.: 9271695

**Sample: GP5 (12-14)** **Lab ID: 9271695006** Collected: 06/16/10 14:20 Received: 06/17/10 08:00 Matrix: Solid

***Results reported on a "dry-weight" basis***

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **8260/5035A Volatile Organics** | Analytical Method: EPA 8260 | | | | | | | |
| Toluene | ND | ug/kg | 5.0 | 1 | | 06/23/10 18:46 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 5.0 | 1 | | 06/23/10 18:46 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 5.0 | 1 | | 06/23/10 18:46 | 120-82-1 | |
| 1,1,1-Trichloroethane | ND | ug/kg | 5.0 | 1 | | 06/23/10 18:46 | 71-55-6 | |
| 1,1,2-Trichloroethane | ND | ug/kg | 5.0 | 1 | | 06/23/10 18:46 | 79-00-5 | |
| Trichloroethene | ND | ug/kg | 5.0 | 1 | | 06/23/10 18:46 | 79-01-6 | |
| Trichlorofluoromethane | ND | ug/kg | 5.0 | 1 | | 06/23/10 18:46 | 75-69-4 | |
| 1,2,3-Trichloropropane | ND | ug/kg | 5.0 | 1 | | 06/23/10 18:46 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | ND | ug/kg | 5.0 | 1 | | 06/23/10 18:46 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | ND | ug/kg | 5.0 | 1 | | 06/23/10 18:46 | 108-67-8 | |
| Vinyl acetate | ND | ug/kg | 50.4 | 1 | | 06/23/10 18:46 | 108-05-4 | |
| Vinyl chloride | ND | ug/kg | 10.1 | 1 | | 06/23/10 18:46 | 75-01-4 | |
| Xylene (Total) | ND | ug/kg | 10.1 | 1 | | 06/23/10 18:46 | 1330-20-7 | |
| m&p-Xylene | ND | ug/kg | 10.1 | 1 | | 06/23/10 18:46 | 179601-23-1 | |
| o-Xylene | ND | ug/kg | 5.0 | 1 | | 06/23/10 18:46 | 95-47-6 | |
| Dibromofluoromethane (S) | 106 | % | 70-130 | 1 | | 06/23/10 18:46 | 1868-53-7 | |
| Toluene-d8 (S) | 99 | % | 70-130 | 1 | | 06/23/10 18:46 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 96 | % | 70-130 | 1 | | 06/23/10 18:46 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 110 | % | 70-132 | 1 | | 06/23/10 18:46 | 17060-07-0 | |
| **Percent Moisture** | Analytical Method: ASTM D2974-87 | | | | | | | |
| Percent Moisture | **22.6** | % | 0.10 | 1 | | 06/18/10 13:19 | | |



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# ANALYTICAL RESULTS

Project: Volvo : Asheville
Pace Project No.: 9271695

**Sample: GP6 (6-8)** **Lab ID: 9271695007** Collected: 06/16/10 14:30 Received: 06/17/10 08:00 Matrix: Solid

***Results reported on a "dry-weight" basis***

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **8015 GCS THC-Diesel** | Analytical Method: EPA 8015 Modified Preparation Method: EPA 3546 | | | | | | | |
| Diesel Components | ND | mg/kg | 5.7 | 1 | 06/21/10 08:30 | 06/22/10 18:07 | 68334-30-5 | |
| n-Pentacosane (S) | 92 | % | 41-119 | 1 | 06/21/10 08:30 | 06/22/10 18:07 | 629-99-2 | |
| **Gasoline Range Organics** | Analytical Method: EPA 8015 Modified Preparation Method: EPA 5035A/5030B | | | | | | | |
| Gasoline Range Organics | ND | mg/kg | 4.9 | 1 | 06/21/10 15:31 | 06/22/10 02:09 | 8006-61-9 | |
| 4-Bromofluorobenzene (S) | 116 | % | 70-167 | 1 | 06/21/10 15:31 | 06/22/10 02:09 | 460-00-4 | |
| **8270 MSSV FULL LIST MICROWAVE** | Analytical Method: EPA 8270 Preparation Method: EPA 3546 | | | | | | | |
| Acenaphthene | ND | ug/kg | 378 | 1 | 06/21/10 10:30 | 06/29/10 12:48 | 83-32-9 | |
| Acenaphthylene | ND | ug/kg | 378 | 1 | 06/21/10 10:30 | 06/29/10 12:48 | 208-96-8 | |
| Aniline | ND | ug/kg | 378 | 1 | 06/21/10 10:30 | 06/29/10 12:48 | 62-53-3 | |
| Anthracene | ND | ug/kg | 378 | 1 | 06/21/10 10:30 | 06/29/10 12:48 | 120-12-7 | |
| Benzo(a)anthracene | ND | ug/kg | 378 | 1 | 06/21/10 10:30 | 06/29/10 12:48 | 56-55-3 | |
| Benzo(a)pyrene | ND | ug/kg | 378 | 1 | 06/21/10 10:30 | 06/29/10 12:48 | 50-32-8 | |
| Benzo(b)fluoranthene | ND | ug/kg | 378 | 1 | 06/21/10 10:30 | 06/29/10 12:48 | 205-99-2 | |
| Benzo(g,h,i)perylene | ND | ug/kg | 378 | 1 | 06/21/10 10:30 | 06/29/10 12:48 | 191-24-2 | |
| Benzo(k)fluoranthene | ND | ug/kg | 378 | 1 | 06/21/10 10:30 | 06/29/10 12:48 | 207-08-9 | |
| Benzoic Acid | ND | ug/kg | 1890 | 1 | 06/21/10 10:30 | 06/29/10 12:48 | 65-85-0 | |
| Benzyl alcohol | ND | ug/kg | 755 | 1 | 06/21/10 10:30 | 06/29/10 12:48 | 100-51-6 | |
| 4-Bromophenylphenyl ether | ND | ug/kg | 378 | 1 | 06/21/10 10:30 | 06/29/10 12:48 | 101-55-3 | |
| Butylbenzylphthalate | ND | ug/kg | 378 | 1 | 06/21/10 10:30 | 06/29/10 12:48 | 85-68-7 | |
| 4-Chloro-3-methylphenol | ND | ug/kg | 755 | 1 | 06/21/10 10:30 | 06/29/10 12:48 | 59-50-7 | |
| 4-Chloroaniline | ND | ug/kg | 1890 | 1 | 06/21/10 10:30 | 06/29/10 12:48 | 106-47-8 | |
| bis(2-Chloroethoxy)methane | ND | ug/kg | 378 | 1 | 06/21/10 10:30 | 06/29/10 12:48 | 111-91-1 | |
| bis(2-Chloroethyl) ether | ND | ug/kg | 378 | 1 | 06/21/10 10:30 | 06/29/10 12:48 | 111-44-4 | |
| bis(2-Chloroisopropyl) ether | ND | ug/kg | 378 | 1 | 06/21/10 10:30 | 06/29/10 12:48 | 108-60-1 | |
| 2-Chloronaphthalene | ND | ug/kg | 378 | 1 | 06/21/10 10:30 | 06/29/10 12:48 | 91-58-7 | |
| 2-Chlorophenol | ND | ug/kg | 378 | 1 | 06/21/10 10:30 | 06/29/10 12:48 | 95-57-8 | |
| 4-Chlorophenylphenyl ether | ND | ug/kg | 378 | 1 | 06/21/10 10:30 | 06/29/10 12:48 | 7005-72-3 | |
| Chrysene | ND | ug/kg | 378 | 1 | 06/21/10 10:30 | 06/29/10 12:48 | 218-01-9 | |
| Dibenz(a,h)anthracene | ND | ug/kg | 378 | 1 | 06/21/10 10:30 | 06/29/10 12:48 | 53-70-3 | |
| Dibenzofuran | ND | ug/kg | 378 | 1 | 06/21/10 10:30 | 06/29/10 12:48 | 132-64-9 | |
| 1,2-Dichlorobenzene | ND | ug/kg | 378 | 1 | 06/21/10 10:30 | 06/29/10 12:48 | 95-50-1 | |
| 1,3-Dichlorobenzene | ND | ug/kg | 378 | 1 | 06/21/10 10:30 | 06/29/10 12:48 | 541-73-1 | |
| 1,4-Dichlorobenzene | ND | ug/kg | 378 | 1 | 06/21/10 10:30 | 06/29/10 12:48 | 106-46-7 | |
| 3,3'-Dichlorobenzidine | ND | ug/kg | 1890 | 1 | 06/21/10 10:30 | 06/29/10 12:48 | 91-94-1 | |
| 2,4-Dichlorophenol | ND | ug/kg | 378 | 1 | 06/21/10 10:30 | 06/29/10 12:48 | 120-83-2 | |
| Diethylphthalate | ND | ug/kg | 378 | 1 | 06/21/10 10:30 | 06/29/10 12:48 | 84-66-2 | |
| 2,4-Dimethylphenol | ND | ug/kg | 378 | 1 | 06/21/10 10:30 | 06/29/10 12:48 | 105-67-9 | |
| Dimethylphthalate | ND | ug/kg | 378 | 1 | 06/21/10 10:30 | 06/29/10 12:48 | 131-11-3 | |
| Di-n-butylphthalate | ND | ug/kg | 378 | 1 | 06/21/10 10:30 | 06/29/10 12:48 | 84-74-2 | |
| 4,6-Dinitro-2-methylphenol | ND | ug/kg | 755 | 1 | 06/21/10 10:30 | 06/29/10 12:48 | 534-52-1 | |
| 2,4-Dinitrophenol | ND | ug/kg | 1890 | 1 | 06/21/10 10:30 | 06/29/10 12:48 | 51-28-5 | |
| 2,4-Dinitrotoluene | ND | ug/kg | 378 | 1 | 06/21/10 10:30 | 06/29/10 12:48 | 121-14-2 | |
| 2,6-Dinitrotoluene | ND | ug/kg | 378 | 1 | 06/21/10 10:30 | 06/29/10 12:48 | 606-20-2 | |



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# ANALYTICAL RESULTS

Project: Volvo : Asheville
Pace Project No.: 9271695

**Sample: GP6 (6-8)** **Lab ID: 9271695007** Collected: 06/16/10 14:30 Received: 06/17/10 08:00 Matrix: Solid

***Results reported on a "dry-weight" basis***

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **8270 MSSV FULL LIST MICROWAVE** | Analytical Method: EPA 8270 Preparation Method: EPA 3546 | | | | | | | |
| Di-n-octylphthalate | ND | ug/kg | 378 | 1 | 06/21/10 10:30 | 06/29/10 12:48 | 117-84-0 | |
| bis(2-Ethylhexyl)phthalate | ND | ug/kg | 378 | 1 | 06/21/10 10:30 | 06/29/10 12:48 | 117-81-7 | |
| Fluoranthene | ND | ug/kg | 378 | 1 | 06/21/10 10:30 | 06/29/10 12:48 | 206-44-0 | |
| Fluorene | ND | ug/kg | 378 | 1 | 06/21/10 10:30 | 06/29/10 12:48 | 86-73-7 | |
| Hexachloro-1,3-butadiene | ND | ug/kg | 378 | 1 | 06/21/10 10:30 | 06/29/10 12:48 | 87-68-3 | |
| Hexachlorobenzene | ND | ug/kg | 378 | 1 | 06/21/10 10:30 | 06/29/10 12:48 | 118-74-1 | |
| Hexachlorocyclopentadiene | ND | ug/kg | 378 | 1 | 06/21/10 10:30 | 06/29/10 12:48 | 77-47-4 | |
| Hexachloroethane | ND | ug/kg | 378 | 1 | 06/21/10 10:30 | 06/29/10 12:48 | 67-72-1 | |
| Indeno(1,2,3-cd)pyrene | ND | ug/kg | 378 | 1 | 06/21/10 10:30 | 06/29/10 12:48 | 193-39-5 | |
| Isophorone | ND | ug/kg | 378 | 1 | 06/21/10 10:30 | 06/29/10 12:48 | 78-59-1 | |
| 1-Methylnaphthalene | ND | ug/kg | 378 | 1 | 06/21/10 10:30 | 06/29/10 12:48 | 90-12-0 | |
| 2-Methylnaphthalene | ND | ug/kg | 378 | 1 | 06/21/10 10:30 | 06/29/10 12:48 | 91-57-6 | |
| 2-Methylphenol(o-Cresol) | ND | ug/kg | 378 | 1 | 06/21/10 10:30 | 06/29/10 12:48 | 95-48-7 | |
| 3&4-Methylphenol(m&p Cresol) | ND | ug/kg | 378 | 1 | 06/21/10 10:30 | 06/29/10 12:48 | | |
| Naphthalene | ND | ug/kg | 378 | 1 | 06/21/10 10:30 | 06/29/10 12:48 | 91-20-3 | |
| 2-Nitroaniline | ND | ug/kg | 1890 | 1 | 06/21/10 10:30 | 06/29/10 12:48 | 88-74-4 | |
| 3-Nitroaniline | ND | ug/kg | 1890 | 1 | 06/21/10 10:30 | 06/29/10 12:48 | 99-09-2 | |
| 4-Nitroaniline | ND | ug/kg | 755 | 1 | 06/21/10 10:30 | 06/29/10 12:48 | 100-01-6 | |
| Nitrobenzene | ND | ug/kg | 378 | 1 | 06/21/10 10:30 | 06/29/10 12:48 | 98-95-3 | |
| 2-Nitrophenol | ND | ug/kg | 378 | 1 | 06/21/10 10:30 | 06/29/10 12:48 | 88-75-5 | |
| 4-Nitrophenol | ND | ug/kg | 1890 | 1 | 06/21/10 10:30 | 06/29/10 12:48 | 100-02-7 | |
| N-Nitrosodimethylamine | ND | ug/kg | 378 | 1 | 06/21/10 10:30 | 06/29/10 12:48 | 62-75-9 | |
| N-Nitroso-di-n-propylamine | ND | ug/kg | 378 | 1 | 06/21/10 10:30 | 06/29/10 12:48 | 621-64-7 | |
| N-Nitrosodiphenylamine | ND | ug/kg | 378 | 1 | 06/21/10 10:30 | 06/29/10 12:48 | 86-30-6 | |
| Pentachlorophenol | ND | ug/kg | 1890 | 1 | 06/21/10 10:30 | 06/29/10 12:48 | 87-86-5 | |
| Phenanthrene | ND | ug/kg | 378 | 1 | 06/21/10 10:30 | 06/29/10 12:48 | 85-01-8 | |
| Phenol | ND | ug/kg | 378 | 1 | 06/21/10 10:30 | 06/29/10 12:48 | 108-95-2 | |
| Pyrene | ND | ug/kg | 378 | 1 | 06/21/10 10:30 | 06/29/10 12:48 | 129-00-0 | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 378 | 1 | 06/21/10 10:30 | 06/29/10 12:48 | 120-82-1 | |
| 2,4,5-Trichlorophenol | ND | ug/kg | 378 | 1 | 06/21/10 10:30 | 06/29/10 12:48 | 95-95-4 | |
| 2,4,6-Trichlorophenol | ND | ug/kg | 378 | 1 | 06/21/10 10:30 | 06/29/10 12:48 | 88-06-2 | |
| Nitrobenzene-d5 (S) | 61 | % | 23-110 | 1 | 06/21/10 10:30 | 06/29/10 12:48 | 4165-60-0 | |
| 2-Fluorobiphenyl (S) | 61 | % | 30-110 | 1 | 06/21/10 10:30 | 06/29/10 12:48 | 321-60-8 | |
| Terphenyl-d14 (S) | 71 | % | 28-110 | 1 | 06/21/10 10:30 | 06/29/10 12:48 | 1718-51-0 | |
| Phenol-d6 (S) | 61 | % | 22-110 | 1 | 06/21/10 10:30 | 06/29/10 12:48 | 13127-88-3 | |
| 2-Fluorophenol (S) | 59 | % | 13-110 | 1 | 06/21/10 10:30 | 06/29/10 12:48 | 367-12-4 | |
| 2,4,6-Tribromophenol (S) | 84 | % | 27-110 | 1 | 06/21/10 10:30 | 06/29/10 12:48 | 118-79-6 | |
| **8260/5035A Volatile Organics** | Analytical Method: EPA 8260 | | | | | | | |
| Acetone | **156** | ug/kg | 92.6 | 1 | | 06/23/10 19:04 | 67-64-1 | C9 |
| Benzene | ND | ug/kg | 4.6 | 1 | | 06/23/10 19:04 | 71-43-2 | |
| Bromobenzene | ND | ug/kg | 4.6 | 1 | | 06/23/10 19:04 | 108-86-1 | |
| Bromochloromethane | ND | ug/kg | 4.6 | 1 | | 06/23/10 19:04 | 74-97-5 | |
| Bromodichloromethane | ND | ug/kg | 4.6 | 1 | | 06/23/10 19:04 | 75-27-4 | |
| Bromoform | ND | ug/kg | 4.6 | 1 | | 06/23/10 19:04 | 75-25-2 | |



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# ANALYTICAL RESULTS

Project: Volvo : Asheville
Pace Project No.: 9271695

**Sample: GP6 (6-8)** **Lab ID: 9271695007** Collected: 06/16/10 14:30 Received: 06/17/10 08:00 Matrix: Solid

***Results reported on a "dry-weight" basis***

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **8260/5035A Volatile Organics** | Analytical Method: EPA 8260 | | | | | | | |
| Bromomethane | ND | ug/kg | 9.3 | 1 | | 06/23/10 19:04 | 74-83-9 | |
| 2-Butanone (MEK) | ND | ug/kg | 92.6 | 1 | | 06/23/10 19:04 | 78-93-3 | |
| n-Butylbenzene | ND | ug/kg | 4.6 | 1 | | 06/23/10 19:04 | 104-51-8 | |
| sec-Butylbenzene | ND | ug/kg | 4.6 | 1 | | 06/23/10 19:04 | 135-98-8 | |
| tert-Butylbenzene | ND | ug/kg | 4.6 | 1 | | 06/23/10 19:04 | 98-06-6 | |
| Carbon tetrachloride | ND | ug/kg | 4.6 | 1 | | 06/23/10 19:04 | 56-23-5 | |
| Chlorobenzene | ND | ug/kg | 4.6 | 1 | | 06/23/10 19:04 | 108-90-7 | |
| Chloroethane | ND | ug/kg | 9.3 | 1 | | 06/23/10 19:04 | 75-00-3 | |
| Chloroform | ND | ug/kg | 4.6 | 1 | | 06/23/10 19:04 | 67-66-3 | |
| Chloromethane | ND | ug/kg | 9.3 | 1 | | 06/23/10 19:04 | 74-87-3 | |
| 2-Chlorotoluene | ND | ug/kg | 4.6 | 1 | | 06/23/10 19:04 | 95-49-8 | |
| 4-Chlorotoluene | ND | ug/kg | 4.6 | 1 | | 06/23/10 19:04 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 4.6 | 1 | | 06/23/10 19:04 | 96-12-8 | |
| Dibromochloromethane | ND | ug/kg | 4.6 | 1 | | 06/23/10 19:04 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | ND | ug/kg | 4.6 | 1 | | 06/23/10 19:04 | 106-93-4 | |
| Dibromomethane | ND | ug/kg | 4.6 | 1 | | 06/23/10 19:04 | 74-95-3 | |
| 1,2-Dichlorobenzene | ND | ug/kg | 4.6 | 1 | | 06/23/10 19:04 | 95-50-1 | |
| 1,3-Dichlorobenzene | ND | ug/kg | 4.6 | 1 | | 06/23/10 19:04 | 541-73-1 | |
| 1,4-Dichlorobenzene | ND | ug/kg | 4.6 | 1 | | 06/23/10 19:04 | 106-46-7 | |
| Dichlorodifluoromethane | ND | ug/kg | 9.3 | 1 | | 06/23/10 19:04 | 75-71-8 | |
| 1,1-Dichloroethane | ND | ug/kg | 4.6 | 1 | | 06/23/10 19:04 | 75-34-3 | |
| 1,2-Dichloroethane | ND | ug/kg | 4.6 | 1 | | 06/23/10 19:04 | 107-06-2 | |
| 1,1-Dichloroethene | ND | ug/kg | 4.6 | 1 | | 06/23/10 19:04 | 75-35-4 | |
| cis-1,2-Dichloroethene | ND | ug/kg | 4.6 | 1 | | 06/23/10 19:04 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/kg | 4.6 | 1 | | 06/23/10 19:04 | 156-60-5 | |
| 1,2-Dichloropropane | ND | ug/kg | 4.6 | 1 | | 06/23/10 19:04 | 78-87-5 | |
| 1,3-Dichloropropane | ND | ug/kg | 4.6 | 1 | | 06/23/10 19:04 | 142-28-9 | |
| 2,2-Dichloropropane | ND | ug/kg | 4.6 | 1 | | 06/23/10 19:04 | 594-20-7 | |
| 1,1-Dichloropropene | ND | ug/kg | 4.6 | 1 | | 06/23/10 19:04 | 563-58-6 | |
| cis-1,3-Dichloropropene | ND | ug/kg | 4.6 | 1 | | 06/23/10 19:04 | 10061-01-5 | |
| trans-1,3-Dichloropropene | ND | ug/kg | 4.6 | 1 | | 06/23/10 19:04 | 10061-02-6 | |
| Diisopropyl ether | ND | ug/kg | 4.6 | 1 | | 06/23/10 19:04 | 108-20-3 | |
| Ethylbenzene | ND | ug/kg | 4.6 | 1 | | 06/23/10 19:04 | 100-41-4 | |
| Hexachloro-1,3-butadiene | ND | ug/kg | 4.6 | 1 | | 06/23/10 19:04 | 87-68-3 | |
| 2-Hexanone | ND | ug/kg | 46.3 | 1 | | 06/23/10 19:04 | 591-78-6 | |
| Isopropylbenzene (Cumene) | ND | ug/kg | 4.6 | 1 | | 06/23/10 19:04 | 98-82-8 | |
| p-Isopropyltoluene | **26.6** | ug/kg | 4.6 | 1 | | 06/23/10 19:04 | 99-87-6 | |
| Methylene Chloride | **42.4** | ug/kg | 18.5 | 1 | | 06/23/10 19:04 | 75-09-2 | C9 |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/kg | 46.3 | 1 | | 06/23/10 19:04 | 108-10-1 | |
| Methyl-tert-butyl ether | ND | ug/kg | 4.6 | 1 | | 06/23/10 19:04 | 1634-04-4 | |
| Naphthalene | ND | ug/kg | 4.6 | 1 | | 06/23/10 19:04 | 91-20-3 | |
| n-Propylbenzene | ND | ug/kg | 4.6 | 1 | | 06/23/10 19:04 | 103-65-1 | |
| Styrene | ND | ug/kg | 4.6 | 1 | | 06/23/10 19:04 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | ND | ug/kg | 4.6 | 1 | | 06/23/10 19:04 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 4.6 | 1 | | 06/23/10 19:04 | 79-34-5 | |
| Tetrachloroethene | ND | ug/kg | 4.6 | 1 | | 06/23/10 19:04 | 127-18-4 | |



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# ANALYTICAL RESULTS

Project: Volvo : Asheville
Pace Project No.: 9271695

**Sample: GP6 (6-8)** **Lab ID: 9271695007** Collected: 06/16/10 14:30 Received: 06/17/10 08:00 Matrix: Solid

***Results reported on a "dry-weight" basis***

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **8260/5035A Volatile Organics** | Analytical Method: EPA 8260 | | | | | | | |
| Toluene | ND | ug/kg | 4.6 | 1 | | 06/23/10 19:04 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 4.6 | 1 | | 06/23/10 19:04 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 4.6 | 1 | | 06/23/10 19:04 | 120-82-1 | |
| 1,1,1-Trichloroethane | ND | ug/kg | 4.6 | 1 | | 06/23/10 19:04 | 71-55-6 | |
| 1,1,2-Trichloroethane | ND | ug/kg | 4.6 | 1 | | 06/23/10 19:04 | 79-00-5 | |
| Trichloroethene | ND | ug/kg | 4.6 | 1 | | 06/23/10 19:04 | 79-01-6 | |
| Trichlorofluoromethane | ND | ug/kg | 4.6 | 1 | | 06/23/10 19:04 | 75-69-4 | |
| 1,2,3-Trichloropropane | ND | ug/kg | 4.6 | 1 | | 06/23/10 19:04 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | ND | ug/kg | 4.6 | 1 | | 06/23/10 19:04 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | ND | ug/kg | 4.6 | 1 | | 06/23/10 19:04 | 108-67-8 | |
| Vinyl acetate | ND | ug/kg | 46.3 | 1 | | 06/23/10 19:04 | 108-05-4 | |
| Vinyl chloride | ND | ug/kg | 9.3 | 1 | | 06/23/10 19:04 | 75-01-4 | |
| Xylene (Total) | ND | ug/kg | 9.3 | 1 | | 06/23/10 19:04 | 1330-20-7 | |
| m&p-Xylene | ND | ug/kg | 9.3 | 1 | | 06/23/10 19:04 | 179601-23-1 | |
| o-Xylene | ND | ug/kg | 4.6 | 1 | | 06/23/10 19:04 | 95-47-6 | |
| Dibromofluoromethane (S) | 108 | % | 70-130 | 1 | | 06/23/10 19:04 | 1868-53-7 | |
| Toluene-d8 (S) | 96 | % | 70-130 | 1 | | 06/23/10 19:04 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 89 | % | 70-130 | 1 | | 06/23/10 19:04 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 110 | % | 70-132 | 1 | | 06/23/10 19:04 | 17060-07-0 | |
| **Percent Moisture** | Analytical Method: ASTM D2974-87 | | | | | | | |
| Percent Moisture | **12.6** | % | 0.10 | 1 | | 06/18/10 13:20 | | |



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# ANALYTICAL RESULTS

Project: Volvo : Asheville
Pace Project No.: 9271695

**Sample: GP7 (6-8)** **Lab ID: 9271695008** Collected: 06/16/10 14:35 Received: 06/17/10 08:00 Matrix: Solid

***Results reported on a "dry-weight" basis***

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **8081 GCS Pesticides** | Analytical Method: EPA 8081 | | | | | | | |
| Aldrin | ND | ug/kg | 1.7 | 1 | 06/23/10 12:24 | 06/29/10 18:38 | 309-00-2 | L1 |
| alpha-BHC | ND | ug/kg | 1.7 | 1 | 06/23/10 12:24 | 06/29/10 18:38 | 319-84-6 | |
| beta-BHC | ND | ug/kg | 1.7 | 1 | 06/23/10 12:24 | 06/29/10 18:38 | 319-85-7 | |
| delta-BHC | ND | ug/kg | 1.7 | 1 | 06/23/10 12:24 | 06/29/10 18:38 | 319-86-8 | |
| gamma-BHC (Lindane) | ND | ug/kg | 1.7 | 1 | 06/23/10 12:24 | 06/29/10 18:38 | 58-89-9 | |
| Chlordane (Technical) | ND | ug/kg | 16.9 | 1 | 06/23/10 12:24 | 06/29/10 18:38 | 57-74-9 | |
| 4,4'-DDD | ND | ug/kg | 1.7 | 1 | 06/23/10 12:24 | 06/29/10 18:38 | 72-54-8 | |
| 4,4'-DDE | ND | ug/kg | 1.7 | 1 | 06/23/10 12:24 | 06/29/10 18:38 | 72-55-9 | |
| 4,4'-DDT | ND | ug/kg | 1.7 | 1 | 06/23/10 12:24 | 06/29/10 18:38 | 50-29-3 | |
| Dieldrin | ND | ug/kg | 1.7 | 1 | 06/23/10 12:24 | 06/29/10 18:38 | 60-57-1 | |
| Endosulfan I | ND | ug/kg | 1.7 | 1 | 06/23/10 12:24 | 06/29/10 18:38 | 959-98-8 | |
| Endosulfan II | ND | ug/kg | 1.7 | 1 | 06/23/10 12:24 | 06/29/10 18:38 | 33213-65-9 | |
| Endosulfan sulfate | ND | ug/kg | 1.7 | 1 | 06/23/10 12:24 | 06/29/10 18:38 | 1031-07-8 | |
| Endrin | ND | ug/kg | 1.7 | 1 | 06/23/10 12:24 | 06/29/10 18:38 | 72-20-8 | |
| Endrin aldehyde | ND | ug/kg | 1.7 | 1 | 06/23/10 12:24 | 06/29/10 18:38 | 7421-93-4 | |
| Endrin ketone | ND | ug/kg | 1.7 | 1 | 06/23/10 12:24 | 06/29/10 18:38 | 53494-70-5 | |
| Heptachlor | ND | ug/kg | 1.7 | 1 | 06/23/10 12:24 | 06/29/10 18:38 | 76-44-8 | L1 |
| Heptachlor epoxide | ND | ug/kg | 1.7 | 1 | 06/23/10 12:24 | 06/29/10 18:38 | 1024-57-3 | |
| Methoxychlor | ND | ug/kg | 1.7 | 1 | 06/23/10 12:24 | 06/29/10 18:38 | 72-43-5 | |
| Toxaphene | ND | ug/kg | 16.9 | 1 | 06/23/10 12:24 | 06/30/10 19:00 | 8001-35-2 | |
| Tetrachloro-m-xylene (S) | 86 | % | 70-130 | 1 | 06/23/10 12:24 | 06/29/10 18:38 | 877-09-8 | |
| Decachlorobiphenyl (S) | 81 | % | 70-130 | 1 | 06/23/10 12:24 | 06/29/10 18:38 | 2051-24-3 | |
| **8082 GCS PCB** | Analytical Method: EPA 8082 Preparation Method: EPA 3546 | | | | | | | |
| PCB-1016 (Aroclor 1016) | ND | ug/kg | 42.5 | 1 | 06/28/10 12:30 | 06/29/10 07:20 | 12674-11-2 | |
| PCB-1221 (Aroclor 1221) | ND | ug/kg | 42.5 | 1 | 06/28/10 12:30 | 06/29/10 07:20 | 11104-28-2 | |
| PCB-1232 (Aroclor 1232) | ND | ug/kg | 42.5 | 1 | 06/28/10 12:30 | 06/29/10 07:20 | 11141-16-5 | |
| PCB-1242 (Aroclor 1242) | ND | ug/kg | 42.5 | 1 | 06/28/10 12:30 | 06/29/10 07:20 | 53469-21-9 | |
| PCB-1248 (Aroclor 1248) | ND | ug/kg | 42.5 | 1 | 06/28/10 12:30 | 06/29/10 07:20 | 12672-29-6 | |
| PCB-1254 (Aroclor 1254) | ND | ug/kg | 42.5 | 1 | 06/28/10 12:30 | 06/29/10 07:20 | 11097-69-1 | |
| PCB-1260 (Aroclor 1260) | ND | ug/kg | 42.5 | 1 | 06/28/10 12:30 | 06/29/10 07:20 | 11096-82-5 | |
| Decachlorobiphenyl (S) | 35 | % | 21-132 | 1 | 06/28/10 12:30 | 06/29/10 07:20 | 2051-24-3 | |
| **MADEP EPH NC Soil** | Analytical Method: MADEP EPH Preparation Method: MADEP EPH | | | | | | | |
| Aliphatic (C09-C18) | ND | mg/kg | 2580 | 200 | 06/21/10 13:00 | 06/23/10 10:31 | | |
| Aliphatic (C19-C36) | **8030** | mg/kg | 2580 | 200 | 06/21/10 13:00 | 06/23/10 10:31 | | |
| Aromatic (C11-C22) | **1840** | mg/kg | 322 | 25 | 06/21/10 13:00 | 06/23/10 04:13 | | |
| Nonatriacontane (S) | 0 | % | 40-140 | 200 | 06/21/10 13:00 | 06/23/10 10:31 | 7194-86-7 | S4 |
| o-Terphenyl (S) | 0 | % | 40-140 | 25 | 06/21/10 13:00 | 06/23/10 04:13 | 84-15-1 | S4 |
| 2-Fluorobiphenyl (S) | 0 | % | 40-140 | 25 | 06/21/10 13:00 | 06/23/10 04:13 | 321-60-8 | S4 |
| 2-Bromonaphthalene (S) | 0 | % | 40-140 | 25 | 06/21/10 13:00 | 06/23/10 04:13 | 580-13-2 | S4 |
| **VPH NC Soil** | Analytical Method: MADEP VPH Preparation Method: MADEP VPH | | | | | | | |
| Aliphatic (C05-C08) | ND | mg/kg | 9.8 | 1 | 06/25/10 09:47 | 06/25/10 15:25 | | |
| Aliphatic (C09-C12) | **89.6** | mg/kg | 9.8 | 1 | 06/25/10 09:47 | 06/25/10 15:25 | | 1g |



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# ANALYTICAL RESULTS

Project: Volvo : Asheville
Pace Project No.: 9271695

**Sample: GP7 (6-8)** **Lab ID: 9271695008** Collected: 06/16/10 14:35 Received: 06/17/10 08:00 Matrix: Solid

***Results reported on a "dry-weight" basis***

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **VPH NC Soil** | Analytical Method: MADEP VPH Preparation Method: MADEP VPH | | | | | | | |
| Aromatic (C09-C10) | **27.1** | mg/kg | 9.8 | 1 | 06/25/10 09:47 | 06/25/10 15:25 | | |
| 2,5-Dibromotoluene (PID)(S) | 146 | % | 70-130 | 1 | 06/25/10 09:47 | 06/25/10 15:25 | | S5 |
| 2,5-Dibromotoluene (FID)(S) | 82 | % | 70-130 | 1 | 06/25/10 09:47 | 06/25/10 15:25 | | |
| **6010 MET ICP** | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | |
| Chromium | **32.2** | mg/kg | 2.0 | 5 | 06/18/10 15:25 | 06/22/10 14:21 | 7440-47-3 | D3 |
| Lead | **8.2** | mg/kg | 2.0 | 5 | 06/18/10 15:25 | 06/22/10 14:21 | 7439-92-1 | D3 |
| **8270 MSSV FULL LIST MICROWAVE** | Analytical Method: EPA 8270 Preparation Method: EPA 3546 | | | | | | | |
| Acenaphthene | ND | ug/kg | 21300 | 50 | 06/21/10 10:30 | 06/29/10 16:14 | 83-32-9 | |
| Acenaphthylene | ND | ug/kg | 21300 | 50 | 06/21/10 10:30 | 06/29/10 16:14 | 208-96-8 | |
| Aniline | ND | ug/kg | 21300 | 50 | 06/21/10 10:30 | 06/29/10 16:14 | 62-53-3 | |
| Anthracene | ND | ug/kg | 21300 | 50 | 06/21/10 10:30 | 06/29/10 16:14 | 120-12-7 | |
| Benzo(a)anthracene | ND | ug/kg | 21300 | 50 | 06/21/10 10:30 | 06/29/10 16:14 | 56-55-3 | |
| Benzo(a)pyrene | ND | ug/kg | 21300 | 50 | 06/21/10 10:30 | 06/29/10 16:14 | 50-32-8 | |
| Benzo(b)fluoranthene | ND | ug/kg | 21300 | 50 | 06/21/10 10:30 | 06/29/10 16:14 | 205-99-2 | |
| Benzo(g,h,i)perylene | ND | ug/kg | 21300 | 50 | 06/21/10 10:30 | 06/29/10 16:14 | 191-24-2 | |
| Benzo(k)fluoranthene | ND | ug/kg | 21300 | 50 | 06/21/10 10:30 | 06/29/10 16:14 | 207-08-9 | |
| Benzoic Acid | ND | ug/kg | 106000 | 50 | 06/21/10 10:30 | 06/29/10 16:14 | 65-85-0 | |
| Benzyl alcohol | ND | ug/kg | 42500 | 50 | 06/21/10 10:30 | 06/29/10 16:14 | 100-51-6 | |
| 4-Bromophenylphenyl ether | ND | ug/kg | 21300 | 50 | 06/21/10 10:30 | 06/29/10 16:14 | 101-55-3 | |
| Butylbenzylphthalate | ND | ug/kg | 21300 | 50 | 06/21/10 10:30 | 06/29/10 16:14 | 85-68-7 | |
| 4-Chloro-3-methylphenol | ND | ug/kg | 42500 | 50 | 06/21/10 10:30 | 06/29/10 16:14 | 59-50-7 | |
| 4-Chloroaniline | ND | ug/kg | 106000 | 50 | 06/21/10 10:30 | 06/29/10 16:14 | 106-47-8 | |
| bis(2-Chloroethoxy)methane | ND | ug/kg | 21300 | 50 | 06/21/10 10:30 | 06/29/10 16:14 | 111-91-1 | |
| bis(2-Chloroethyl) ether | ND | ug/kg | 21300 | 50 | 06/21/10 10:30 | 06/29/10 16:14 | 111-44-4 | |
| bis(2-Chloroisopropyl) ether | ND | ug/kg | 21300 | 50 | 06/21/10 10:30 | 06/29/10 16:14 | 108-60-1 | |
| 2-Chloronaphthalene | ND | ug/kg | 21300 | 50 | 06/21/10 10:30 | 06/29/10 16:14 | 91-58-7 | |
| 2-Chlorophenol | ND | ug/kg | 21300 | 50 | 06/21/10 10:30 | 06/29/10 16:14 | 95-57-8 | |
| 4-Chlorophenylphenyl ether | ND | ug/kg | 21300 | 50 | 06/21/10 10:30 | 06/29/10 16:14 | 7005-72-3 | |
| Chrysene | ND | ug/kg | 21300 | 50 | 06/21/10 10:30 | 06/29/10 16:14 | 218-01-9 | |
| Dibenz(a,h)anthracene | ND | ug/kg | 21300 | 50 | 06/21/10 10:30 | 06/29/10 16:14 | 53-70-3 | |
| Dibenzofuran | ND | ug/kg | 21300 | 50 | 06/21/10 10:30 | 06/29/10 16:14 | 132-64-9 | |
| 1,2-Dichlorobenzene | ND | ug/kg | 21300 | 50 | 06/21/10 10:30 | 06/29/10 16:14 | 95-50-1 | |
| 1,3-Dichlorobenzene | ND | ug/kg | 21300 | 50 | 06/21/10 10:30 | 06/29/10 16:14 | 541-73-1 | |
| 1,4-Dichlorobenzene | ND | ug/kg | 21300 | 50 | 06/21/10 10:30 | 06/29/10 16:14 | 106-46-7 | |
| 3,3'-Dichlorobenzidine | ND | ug/kg | 106000 | 50 | 06/21/10 10:30 | 06/29/10 16:14 | 91-94-1 | |
| 2,4-Dichlorophenol | ND | ug/kg | 21300 | 50 | 06/21/10 10:30 | 06/29/10 16:14 | 120-83-2 | |
| Diethylphthalate | ND | ug/kg | 21300 | 50 | 06/21/10 10:30 | 06/29/10 16:14 | 84-66-2 | |
| 2,4-Dimethylphenol | ND | ug/kg | 21300 | 50 | 06/21/10 10:30 | 06/29/10 16:14 | 105-67-9 | |
| Dimethylphthalate | ND | ug/kg | 21300 | 50 | 06/21/10 10:30 | 06/29/10 16:14 | 131-11-3 | |
| Di-n-butylphthalate | ND | ug/kg | 21300 | 50 | 06/21/10 10:30 | 06/29/10 16:14 | 84-74-2 | |
| 4,6-Dinitro-2-methylphenol | ND | ug/kg | 42500 | 50 | 06/21/10 10:30 | 06/29/10 16:14 | 534-52-1 | |
| 2,4-Dinitrophenol | ND | ug/kg | 106000 | 50 | 06/21/10 10:30 | 06/29/10 16:14 | 51-28-5 | |
| 2,4-Dinitrotoluene | ND | ug/kg | 21300 | 50 | 06/21/10 10:30 | 06/29/10 16:14 | 121-14-2 | |



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# ANALYTICAL RESULTS

Project: Volvo : Asheville
Pace Project No.: 9271695

**Sample: GP7 (6-8)** **Lab ID: 9271695008** Collected: 06/16/10 14:35 Received: 06/17/10 08:00 Matrix: Solid

***Results reported on a "dry-weight" basis***

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **8270 MSSV FULL LIST MICROWAVE** | Analytical Method: EPA 8270 Preparation Method: EPA 3546 | | | | | | | |
| 2,6-Dinitrotoluene | ND | ug/kg | 21300 | 50 | 06/21/10 10:30 | 06/29/10 16:14 | 606-20-2 | |
| Di-n-octylphthalate | ND | ug/kg | 21300 | 50 | 06/21/10 10:30 | 06/29/10 16:14 | 117-84-0 | |
| bis(2-Ethylhexyl)phthalate | ND | ug/kg | 21300 | 50 | 06/21/10 10:30 | 06/29/10 16:14 | 117-81-7 | |
| Fluoranthene | ND | ug/kg | 21300 | 50 | 06/21/10 10:30 | 06/29/10 16:14 | 206-44-0 | |
| Fluorene | ND | ug/kg | 21300 | 50 | 06/21/10 10:30 | 06/29/10 16:14 | 86-73-7 | |
| Hexachloro-1,3-butadiene | ND | ug/kg | 21300 | 50 | 06/21/10 10:30 | 06/29/10 16:14 | 87-68-3 | |
| Hexachlorobenzene | ND | ug/kg | 21300 | 50 | 06/21/10 10:30 | 06/29/10 16:14 | 118-74-1 | |
| Hexachlorocyclopentadiene | ND | ug/kg | 21300 | 50 | 06/21/10 10:30 | 06/29/10 16:14 | 77-47-4 | |
| Hexachloroethane | ND | ug/kg | 21300 | 50 | 06/21/10 10:30 | 06/29/10 16:14 | 67-72-1 | |
| Indeno(1,2,3-cd)pyrene | ND | ug/kg | 21300 | 50 | 06/21/10 10:30 | 06/29/10 16:14 | 193-39-5 | |
| Isophorone | ND | ug/kg | 21300 | 50 | 06/21/10 10:30 | 06/29/10 16:14 | 78-59-1 | |
| 1-Methylnaphthalene | ND | ug/kg | 21300 | 50 | 06/21/10 10:30 | 06/29/10 16:14 | 90-12-0 | |
| 2-Methylnaphthalene | ND | ug/kg | 21300 | 50 | 06/21/10 10:30 | 06/29/10 16:14 | 91-57-6 | |
| 2-Methylphenol(o-Cresol) | ND | ug/kg | 21300 | 50 | 06/21/10 10:30 | 06/29/10 16:14 | 95-48-7 | |
| 3&4-Methylphenol(m&p Cresol) | ND | ug/kg | 21300 | 50 | 06/21/10 10:30 | 06/29/10 16:14 | | |
| Naphthalene | ND | ug/kg | 21300 | 50 | 06/21/10 10:30 | 06/29/10 16:14 | 91-20-3 | |
| 2-Nitroaniline | ND | ug/kg | 106000 | 50 | 06/21/10 10:30 | 06/29/10 16:14 | 88-74-4 | |
| 3-Nitroaniline | ND | ug/kg | 106000 | 50 | 06/21/10 10:30 | 06/29/10 16:14 | 99-09-2 | |
| 4-Nitroaniline | ND | ug/kg | 42500 | 50 | 06/21/10 10:30 | 06/29/10 16:14 | 100-01-6 | |
| Nitrobenzene | ND | ug/kg | 21300 | 50 | 06/21/10 10:30 | 06/29/10 16:14 | 98-95-3 | |
| 2-Nitrophenol | ND | ug/kg | 21300 | 50 | 06/21/10 10:30 | 06/29/10 16:14 | 88-75-5 | |
| 4-Nitrophenol | ND | ug/kg | 106000 | 50 | 06/21/10 10:30 | 06/29/10 16:14 | 100-02-7 | |
| N-Nitrosodimethylamine | ND | ug/kg | 21300 | 50 | 06/21/10 10:30 | 06/29/10 16:14 | 62-75-9 | |
| N-Nitroso-di-n-propylamine | ND | ug/kg | 21300 | 50 | 06/21/10 10:30 | 06/29/10 16:14 | 621-64-7 | |
| N-Nitrosodiphenylamine | ND | ug/kg | 21300 | 50 | 06/21/10 10:30 | 06/29/10 16:14 | 86-30-6 | |
| Pentachlorophenol | ND | ug/kg | 106000 | 50 | 06/21/10 10:30 | 06/29/10 16:14 | 87-86-5 | |
| Phenanthrene | ND | ug/kg | 21300 | 50 | 06/21/10 10:30 | 06/29/10 16:14 | 85-01-8 | |
| Phenol | ND | ug/kg | 21300 | 50 | 06/21/10 10:30 | 06/29/10 16:14 | 108-95-2 | D3 |
| Pyrene | ND | ug/kg | 21300 | 50 | 06/21/10 10:30 | 06/29/10 16:14 | 129-00-0 | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 21300 | 50 | 06/21/10 10:30 | 06/29/10 16:14 | 120-82-1 | |
| 2,4,5-Trichlorophenol | ND | ug/kg | 21300 | 50 | 06/21/10 10:30 | 06/29/10 16:14 | 95-95-4 | |
| 2,4,6-Trichlorophenol | ND | ug/kg | 21300 | 50 | 06/21/10 10:30 | 06/29/10 16:14 | 88-06-2 | |
| Nitrobenzene-d5 (S) | 0 | % | 23-110 | 50 | 06/21/10 10:30 | 06/29/10 16:14 | 4165-60-0 | S4 |
| 2-Fluorobiphenyl (S) | 0 | % | 30-110 | 50 | 06/21/10 10:30 | 06/29/10 16:14 | 321-60-8 | |
| Terphenyl-d14 (S) | 0 | % | 28-110 | 50 | 06/21/10 10:30 | 06/29/10 16:14 | 1718-51-0 | |
| Phenol-d6 (S) | 0 | % | 22-110 | 50 | 06/21/10 10:30 | 06/29/10 16:14 | 13127-88-3 | |
| 2-Fluorophenol (S) | 0 | % | 13-110 | 50 | 06/21/10 10:30 | 06/29/10 16:14 | 367-12-4 | |
| 2,4,6-Tribromophenol (S) | 0 | % | 27-110 | 50 | 06/21/10 10:30 | 06/29/10 16:14 | 118-79-6 | |
| **8260/5035A Volatile Organics** | Analytical Method: EPA 8260 | | | | | | | |
| Acetone | ND | ug/kg | 107 | 1 | | 06/23/10 20:17 | 67-64-1 | |
| Benzene | ND | ug/kg | 5.4 | 1 | | 06/23/10 20:17 | 71-43-2 | |
| Bromobenzene | ND | ug/kg | 5.4 | 1 | | 06/23/10 20:17 | 108-86-1 | |
| Bromochloromethane | ND | ug/kg | 5.4 | 1 | | 06/23/10 20:17 | 74-97-5 | |
| Bromodichloromethane | ND | ug/kg | 5.4 | 1 | | 06/23/10 20:17 | 75-27-4 | |



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# ANALYTICAL RESULTS

Project: Volvo : Asheville
Pace Project No.: 9271695

**Sample: GP7 (6-8)** **Lab ID: 9271695008** Collected: 06/16/10 14:35 Received: 06/17/10 08:00 Matrix: Solid

***Results reported on a "dry-weight" basis***

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **8260/5035A Volatile Organics** | Analytical Method: EPA 8260 | | | | | | | |
| Bromoform | ND | ug/kg | 5.4 | 1 | | 06/23/10 20:17 | 75-25-2 | |
| Bromomethane | ND | ug/kg | 10.7 | 1 | | 06/23/10 20:17 | 74-83-9 | |
| 2-Butanone (MEK) | ND | ug/kg | 107 | 1 | | 06/23/10 20:17 | 78-93-3 | |
| n-Butylbenzene | **45.4** | ug/kg | 5.4 | 1 | | 06/23/10 20:17 | 104-51-8 | IO |
| sec-Butylbenzene | **57.0** | ug/kg | 5.4 | 1 | | 06/23/10 20:17 | 135-98-8 | IO |
| tert-Butylbenzene | **7.2** | ug/kg | 5.4 | 1 | | 06/23/10 20:17 | 98-06-6 | IO |
| Carbon tetrachloride | ND | ug/kg | 5.4 | 1 | | 06/23/10 20:17 | 56-23-5 | |
| Chlorobenzene | ND | ug/kg | 5.4 | 1 | | 06/23/10 20:17 | 108-90-7 | |
| Chloroethane | ND | ug/kg | 10.7 | 1 | | 06/23/10 20:17 | 75-00-3 | |
| Chloroform | ND | ug/kg | 5.4 | 1 | | 06/23/10 20:17 | 67-66-3 | |
| Chloromethane | ND | ug/kg | 10.7 | 1 | | 06/23/10 20:17 | 74-87-3 | |
| 2-Chlorotoluene | **6290** | ug/kg | 248 | 50 | | 06/24/10 14:16 | 95-49-8 | |
| 4-Chlorotoluene | **136** | ug/kg | 5.4 | 1 | | 06/23/10 20:17 | 106-43-4 | IO |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 5.4 | 1 | | 06/23/10 20:17 | 96-12-8 | |
| Dibromochloromethane | ND | ug/kg | 5.4 | 1 | | 06/23/10 20:17 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | ND | ug/kg | 5.4 | 1 | | 06/23/10 20:17 | 106-93-4 | |
| Dibromomethane | ND | ug/kg | 5.4 | 1 | | 06/23/10 20:17 | 74-95-3 | |
| 1,2-Dichlorobenzene | ND | ug/kg | 5.4 | 1 | | 06/23/10 20:17 | 95-50-1 | |
| 1,3-Dichlorobenzene | ND | ug/kg | 5.4 | 1 | | 06/23/10 20:17 | 541-73-1 | |
| 1,4-Dichlorobenzene | ND | ug/kg | 5.4 | 1 | | 06/23/10 20:17 | 106-46-7 | |
| Dichlorodifluoromethane | ND | ug/kg | 10.7 | 1 | | 06/23/10 20:17 | 75-71-8 | |
| 1,1-Dichloroethane | ND | ug/kg | 5.4 | 1 | | 06/23/10 20:17 | 75-34-3 | |
| 1,2-Dichloroethane | ND | ug/kg | 5.4 | 1 | | 06/23/10 20:17 | 107-06-2 | |
| 1,1-Dichloroethene | ND | ug/kg | 5.4 | 1 | | 06/23/10 20:17 | 75-35-4 | |
| cis-1,2-Dichloroethene | ND | ug/kg | 5.4 | 1 | | 06/23/10 20:17 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/kg | 5.4 | 1 | | 06/23/10 20:17 | 156-60-5 | |
| 1,2-Dichloropropane | ND | ug/kg | 5.4 | 1 | | 06/23/10 20:17 | 78-87-5 | |
| 1,3-Dichloropropane | ND | ug/kg | 5.4 | 1 | | 06/23/10 20:17 | 142-28-9 | |
| 2,2-Dichloropropane | ND | ug/kg | 5.4 | 1 | | 06/23/10 20:17 | 594-20-7 | |
| 1,1-Dichloropropene | ND | ug/kg | 5.4 | 1 | | 06/23/10 20:17 | 563-58-6 | |
| cis-1,3-Dichloropropene | ND | ug/kg | 5.4 | 1 | | 06/23/10 20:17 | 10061-01-5 | |
| trans-1,3-Dichloropropene | ND | ug/kg | 5.4 | 1 | | 06/23/10 20:17 | 10061-02-6 | |
| Diisopropyl ether | ND | ug/kg | 5.4 | 1 | | 06/23/10 20:17 | 108-20-3 | |
| Ethylbenzene | ND | ug/kg | 5.4 | 1 | | 06/23/10 20:17 | 100-41-4 | |
| Hexachloro-1,3-butadiene | ND | ug/kg | 5.4 | 1 | | 06/23/10 20:17 | 87-68-3 | |
| 2-Hexanone | ND | ug/kg | 53.7 | 1 | | 06/23/10 20:17 | 591-78-6 | |
| Isopropylbenzene (Cumene) | **8.4** | ug/kg | 5.4 | 1 | | 06/23/10 20:17 | 98-82-8 | |
| p-Isopropyltoluene | **741** | ug/kg | 248 | 50 | | 06/24/10 14:16 | 99-87-6 | |
| Methylene Chloride | **54.4** | ug/kg | 21.5 | 1 | | 06/23/10 20:17 | 75-09-2 | C9 |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/kg | 53.7 | 1 | | 06/23/10 20:17 | 108-10-1 | |
| Methyl-tert-butyl ether | ND | ug/kg | 5.4 | 1 | | 06/23/10 20:17 | 1634-04-4 | |
| Naphthalene | **171** | ug/kg | 5.4 | 1 | | 06/23/10 20:17 | 91-20-3 | IO |
| n-Propylbenzene | **28.9** | ug/kg | 5.4 | 1 | | 06/23/10 20:17 | 103-65-1 | IO |
| Styrene | ND | ug/kg | 5.4 | 1 | | 06/23/10 20:17 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | ND | ug/kg | 5.4 | 1 | | 06/23/10 20:17 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 5.4 | 1 | | 06/23/10 20:17 | 79-34-5 | |



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# ANALYTICAL RESULTS

Project: Volvo : Asheville
Pace Project No.: 9271695

**Sample: GP7 (6-8)** **Lab ID: 9271695008** Collected: 06/16/10 14:35 Received: 06/17/10 08:00 Matrix: Solid

***Results reported on a "dry-weight" basis***

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **8260/5035A Volatile Organics** | Analytical Method: EPA 8260 | | | | | | | |
| Tetrachloroethene | **14.8** | ug/kg | 5.4 | 1 | | 06/23/10 20:17 | 127-18-4 | |
| Toluene | ND | ug/kg | 5.4 | 1 | | 06/23/10 20:17 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 5.4 | 1 | | 06/23/10 20:17 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 5.4 | 1 | | 06/23/10 20:17 | 120-82-1 | |
| 1,1,1-Trichloroethane | ND | ug/kg | 5.4 | 1 | | 06/23/10 20:17 | 71-55-6 | |
| 1,1,2-Trichloroethane | ND | ug/kg | 5.4 | 1 | | 06/23/10 20:17 | 79-00-5 | |
| Trichloroethene | ND | ug/kg | 5.4 | 1 | | 06/23/10 20:17 | 79-01-6 | |
| Trichlorofluoromethane | ND | ug/kg | 5.4 | 1 | | 06/23/10 20:17 | 75-69-4 | |
| 1,2,3-Trichloropropane | ND | ug/kg | 5.4 | 1 | | 06/23/10 20:17 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | **1170** | ug/kg | 248 | 50 | | 06/24/10 14:16 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | **12.2** | ug/kg | 5.4 | 1 | | 06/23/10 20:17 | 108-67-8 | IO |
| Vinyl acetate | ND | ug/kg | 53.7 | 1 | | 06/23/10 20:17 | 108-05-4 | |
| Vinyl chloride | ND | ug/kg | 10.7 | 1 | | 06/23/10 20:17 | 75-01-4 | |
| Xylene (Total) | **63.1** | ug/kg | 10.7 | 1 | | 06/23/10 20:17 | 1330-20-7 | |
| m&p-Xylene | **12.1** | ug/kg | 10.7 | 1 | | 06/23/10 20:17 | 179601-23-1 | |
| o-Xylene | **51.0** | ug/kg | 5.4 | 1 | | 06/23/10 20:17 | 95-47-6 | |
| Dibromofluoromethane (S) | 114 | % | 70-130 | 1 | | 06/23/10 20:17 | 1868-53-7 | |
| Toluene-d8 (S) | 87 | % | 70-130 | 1 | | 06/23/10 20:17 | 2037-26-5 | S2 |
| 4-Bromofluorobenzene (S) | 77 | % | 70-130 | 1 | | 06/23/10 20:17 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 120 | % | 70-132 | 1 | | 06/23/10 20:17 | 17060-07-0 | |
| **Percent Moisture** | Analytical Method: ASTM D2974-87 | | | | | | | |
| Percent Moisture | **22.4** | % | 0.10 | 1 | | 06/18/10 13:20 | | |
| **Trivalent Chromium Calculation** | Analytical Method: Trivalent Chromium Calculation | | | | | | | |
| Chromium, Trivalent | **32.2** | mg/kg | 5.0 | 1 | | 07/09/10 09:19 | 16065-83-1 | |
| **7196 Chromium, Hexavalent** | Analytical Method: EPA 7196 Preparation Method: EPA 7196 | | | | | | | |
| Chromium, Hexavalent | ND | mg/kg | 6.1 | 1 | 07/08/10 14:00 | 07/08/10 15:01 | 18540-29-9 | |



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# ANALYTICAL RESULTS

Project: Volvo : Asheville
Pace Project No.: 9271695

**Sample: PSS1 (16-18)** **Lab ID: 9271695009** Collected: 06/15/10 17:30 Received: 06/17/10 08:00 Matrix: Solid

***Results reported on a "dry-weight" basis***

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **8081 GCS Pesticides** | Analytical Method: EPA 8081 | | | | | | | |
| Aldrin | ND | ug/kg | 1.7 | 1 | 06/23/10 12:24 | 06/29/10 19:29 | 309-00-2 | L1 |
| alpha-BHC | ND | ug/kg | 1.7 | 1 | 06/23/10 12:24 | 06/29/10 19:29 | 319-84-6 | |
| beta-BHC | ND | ug/kg | 1.7 | 1 | 06/23/10 12:24 | 06/29/10 19:29 | 319-85-7 | |
| delta-BHC | ND | ug/kg | 1.7 | 1 | 06/23/10 12:24 | 06/29/10 19:29 | 319-86-8 | |
| gamma-BHC (Lindane) | ND | ug/kg | 1.7 | 1 | 06/23/10 12:24 | 06/29/10 19:29 | 58-89-9 | |
| Chlordane (Technical) | ND | ug/kg | 16.7 | 1 | 06/23/10 12:24 | 06/29/10 19:29 | 57-74-9 | |
| 4,4'-DDD | ND | ug/kg | 1.7 | 1 | 06/23/10 12:24 | 06/29/10 19:29 | 72-54-8 | |
| 4,4'-DDE | ND | ug/kg | 1.7 | 1 | 06/23/10 12:24 | 06/29/10 19:29 | 72-55-9 | |
| 4,4'-DDT | ND | ug/kg | 1.7 | 1 | 06/23/10 12:24 | 06/29/10 19:29 | 50-29-3 | |
| Dieldrin | ND | ug/kg | 1.7 | 1 | 06/23/10 12:24 | 06/29/10 19:29 | 60-57-1 | |
| Endosulfan I | ND | ug/kg | 1.7 | 1 | 06/23/10 12:24 | 06/29/10 19:29 | 959-98-8 | |
| Endosulfan II | ND | ug/kg | 1.7 | 1 | 06/23/10 12:24 | 06/29/10 19:29 | 33213-65-9 | |
| Endosulfan sulfate | ND | ug/kg | 1.7 | 1 | 06/23/10 12:24 | 06/29/10 19:29 | 1031-07-8 | |
| Endrin | ND | ug/kg | 1.7 | 1 | 06/23/10 12:24 | 06/29/10 19:29 | 72-20-8 | |
| Endrin aldehyde | ND | ug/kg | 1.7 | 1 | 06/23/10 12:24 | 06/29/10 19:29 | 7421-93-4 | |
| Endrin ketone | ND | ug/kg | 1.7 | 1 | 06/23/10 12:24 | 06/29/10 19:29 | 53494-70-5 | |
| Heptachlor | ND | ug/kg | 1.7 | 1 | 06/23/10 12:24 | 06/29/10 19:29 | 76-44-8 | L1 |
| Heptachlor epoxide | ND | ug/kg | 1.7 | 1 | 06/23/10 12:24 | 06/29/10 19:29 | 1024-57-3 | |
| Methoxychlor | ND | ug/kg | 1.7 | 1 | 06/23/10 12:24 | 06/29/10 19:29 | 72-43-5 | |
| Toxaphene | ND | ug/kg | 16.7 | 1 | 06/23/10 12:24 | 06/30/10 19:17 | 8001-35-2 | |
| Tetrachloro-m-xylene (S) | 94 | % | 70-130 | 1 | 06/23/10 12:24 | 06/29/10 19:29 | 877-09-8 | |
| Decachlorobiphenyl (S) | 89 | % | 70-130 | 1 | 06/23/10 12:24 | 06/29/10 19:29 | 2051-24-3 | |
| **8082 GCS PCB** | Analytical Method: EPA 8082 Preparation Method: EPA 3546 | | | | | | | |
| PCB-1016 (Aroclor 1016) | ND | ug/kg | 42.6 | 1 | 06/28/10 12:30 | 06/29/10 07:42 | 12674-11-2 | |
| PCB-1221 (Aroclor 1221) | ND | ug/kg | 42.6 | 1 | 06/28/10 12:30 | 06/29/10 07:42 | 11104-28-2 | |
| PCB-1232 (Aroclor 1232) | ND | ug/kg | 42.6 | 1 | 06/28/10 12:30 | 06/29/10 07:42 | 11141-16-5 | |
| PCB-1242 (Aroclor 1242) | ND | ug/kg | 42.6 | 1 | 06/28/10 12:30 | 06/29/10 07:42 | 53469-21-9 | |
| PCB-1248 (Aroclor 1248) | ND | ug/kg | 42.6 | 1 | 06/28/10 12:30 | 06/29/10 07:42 | 12672-29-6 | |
| PCB-1254 (Aroclor 1254) | ND | ug/kg | 42.6 | 1 | 06/28/10 12:30 | 06/29/10 07:42 | 11097-69-1 | |
| PCB-1260 (Aroclor 1260) | ND | ug/kg | 42.6 | 1 | 06/28/10 12:30 | 06/29/10 07:42 | 11096-82-5 | |
| Decachlorobiphenyl (S) | 53 | % | 21-132 | 1 | 06/28/10 12:30 | 06/29/10 07:42 | 2051-24-3 | |
| **MADEP EPH NC Soil** | Analytical Method: MADEP EPH Preparation Method: MADEP EPH | | | | | | | |
| Aliphatic (C09-C18) | ND | mg/kg | 129 | 10 | 06/21/10 13:00 | 06/23/10 04:49 | | |
| Aliphatic (C19-C36) | **319** | mg/kg | 129 | 10 | 06/21/10 13:00 | 06/23/10 04:49 | | |
| Aromatic (C11-C22) | **57.7** | mg/kg | 12.9 | 1 | 06/21/10 13:00 | 06/23/10 10:31 | | |
| Nonatriacontane (S) | 0 | % | 40-140 | 10 | 06/21/10 13:00 | 06/23/10 04:49 | 7194-86-7 | S4 |
| o-Terphenyl (S) | 65 | % | 40-140 | 1 | 06/21/10 13:00 | 06/23/10 10:31 | 84-15-1 | |
| 2-Fluorobiphenyl (S) | 64 | % | 40-140 | 1 | 06/21/10 13:00 | 06/23/10 10:31 | 321-60-8 | |
| 2-Bromonaphthalene (S) | 92 | % | 40-140 | 1 | 06/21/10 13:00 | 06/23/10 10:31 | 580-13-2 | |
| **VPH NC Soil** | Analytical Method: MADEP VPH Preparation Method: MADEP VPH | | | | | | | |
| Aliphatic (C05-C08) | ND | mg/kg | 9.9 | 1 | 06/25/10 09:47 | 06/25/10 15:50 | | |
| Aliphatic (C09-C12) | ND | mg/kg | 9.9 | 1 | 06/25/10 09:47 | 06/25/10 15:50 | | |



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# ANALYTICAL RESULTS

Project: Volvo : Asheville
Pace Project No.: 9271695

**Sample: PSS1 (16-18)** **Lab ID: 9271695009** Collected: 06/15/10 17:30 Received: 06/17/10 08:00 Matrix: Solid

***Results reported on a "dry-weight" basis***

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **VPH NC Soil** | Analytical Method: MADEP VPH Preparation Method: MADEP VPH | | | | | | | |
| Aromatic (C09-C10) | ND | mg/kg | 9.9 | 1 | 06/25/10 09:47 | 06/25/10 15:50 | | |
| 2,5-Dibromotoluene (PID)(S) | 128 | % | 70-130 | 1 | 06/25/10 09:47 | 06/25/10 15:50 | | |
| 2,5-Dibromotoluene (FID)(S) | 177 | % | 70-130 | 1 | 06/25/10 09:47 | 06/25/10 15:50 | | S5 |
| **6010 MET ICP** | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | |
| Chromium | **29.8** | mg/kg | 1.1 | 2 | 06/18/10 15:25 | 06/22/10 14:25 | 7440-47-3 | D3 |
| Lead | **8.1** | mg/kg | 1.1 | 2 | 06/18/10 15:25 | 06/22/10 14:25 | 7439-92-1 | D3 |
| **8270 MSSV FULL LIST MICROWAVE** | Analytical Method: EPA 8270 Preparation Method: EPA 3546 | | | | | | | |
| Acenaphthene | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 18:16 | 83-32-9 | |
| Acenaphthylene | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 18:16 | 208-96-8 | |
| Aniline | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 18:16 | 62-53-3 | |
| Anthracene | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 18:16 | 120-12-7 | |
| Benzo(a)anthracene | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 18:16 | 56-55-3 | |
| Benzo(a)pyrene | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 18:16 | 50-32-8 | |
| Benzo(b)fluoranthene | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 18:16 | 205-99-2 | |
| Benzo(g,h,i)perylene | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 18:16 | 191-24-2 | |
| Benzo(k)fluoranthene | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 18:16 | 207-08-9 | |
| Benzoic Acid | ND | ug/kg | 2130 | 1 | 06/21/10 10:30 | 06/28/10 18:16 | 65-85-0 | |
| Benzyl alcohol | ND | ug/kg | 852 | 1 | 06/21/10 10:30 | 06/28/10 18:16 | 100-51-6 | |
| 4-Bromophenylphenyl ether | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 18:16 | 101-55-3 | |
| Butylbenzylphthalate | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 18:16 | 85-68-7 | |
| 4-Chloro-3-methylphenol | ND | ug/kg | 852 | 1 | 06/21/10 10:30 | 06/28/10 18:16 | 59-50-7 | |
| 4-Chloroaniline | ND | ug/kg | 2130 | 1 | 06/21/10 10:30 | 06/28/10 18:16 | 106-47-8 | |
| bis(2-Chloroethoxy)methane | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 18:16 | 111-91-1 | |
| bis(2-Chloroethyl) ether | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 18:16 | 111-44-4 | |
| bis(2-Chloroisopropyl) ether | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 18:16 | 108-60-1 | |
| 2-Chloronaphthalene | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 18:16 | 91-58-7 | |
| 2-Chlorophenol | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 18:16 | 95-57-8 | |
| 4-Chlorophenylphenyl ether | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 18:16 | 7005-72-3 | |
| Chrysene | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 18:16 | 218-01-9 | |
| Dibenz(a,h)anthracene | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 18:16 | 53-70-3 | |
| Dibenzofuran | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 18:16 | 132-64-9 | |
| 1,2-Dichlorobenzene | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 18:16 | 95-50-1 | |
| 1,3-Dichlorobenzene | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 18:16 | 541-73-1 | |
| 1,4-Dichlorobenzene | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 18:16 | 106-46-7 | |
| 3,3'-Dichlorobenzidine | ND | ug/kg | 2130 | 1 | 06/21/10 10:30 | 06/28/10 18:16 | 91-94-1 | |
| 2,4-Dichlorophenol | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 18:16 | 120-83-2 | |
| Diethylphthalate | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 18:16 | 84-66-2 | |
| 2,4-Dimethylphenol | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 18:16 | 105-67-9 | |
| Dimethylphthalate | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 18:16 | 131-11-3 | |
| Di-n-butylphthalate | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 18:16 | 84-74-2 | |
| 4,6-Dinitro-2-methylphenol | ND | ug/kg | 852 | 1 | 06/21/10 10:30 | 06/28/10 18:16 | 534-52-1 | |
| 2,4-Dinitrophenol | ND | ug/kg | 2130 | 1 | 06/21/10 10:30 | 06/28/10 18:16 | 51-28-5 | |
| 2,4-Dinitrotoluene | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 18:16 | 121-14-2 | |



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# ANALYTICAL RESULTS

Project: Volvo : Asheville
Pace Project No.: 9271695

**Sample: PSS1 (16-18)** **Lab ID: 9271695009** Collected: 06/15/10 17:30 Received: 06/17/10 08:00 Matrix: Solid

***Results reported on a "dry-weight" basis***

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **8270 MSSV FULL LIST MICROWAVE** | Analytical Method: EPA 8270 Preparation Method: EPA 3546 | | | | | | | |
| 2,6-Dinitrotoluene | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 18:16 | 606-20-2 | |
| Di-n-octylphthalate | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 18:16 | 117-84-0 | |
| bis(2-Ethylhexyl)phthalate | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 18:16 | 117-81-7 | |
| Fluoranthene | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 18:16 | 206-44-0 | |
| Fluorene | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 18:16 | 86-73-7 | |
| Hexachloro-1,3-butadiene | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 18:16 | 87-68-3 | |
| Hexachlorobenzene | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 18:16 | 118-74-1 | |
| Hexachlorocyclopentadiene | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 18:16 | 77-47-4 | |
| Hexachloroethane | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 18:16 | 67-72-1 | |
| Indeno(1,2,3-cd)pyrene | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 18:16 | 193-39-5 | |
| Isophorone | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 18:16 | 78-59-1 | |
| 1-Methylnaphthalene | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 18:16 | 90-12-0 | |
| 2-Methylnaphthalene | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 18:16 | 91-57-6 | |
| 2-Methylphenol(o-Cresol) | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 18:16 | 95-48-7 | |
| 3&4-Methylphenol(m&p Cresol) | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 18:16 | | |
| Naphthalene | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 18:16 | 91-20-3 | |
| 2-Nitroaniline | ND | ug/kg | 2130 | 1 | 06/21/10 10:30 | 06/28/10 18:16 | 88-74-4 | |
| 3-Nitroaniline | ND | ug/kg | 2130 | 1 | 06/21/10 10:30 | 06/28/10 18:16 | 99-09-2 | |
| 4-Nitroaniline | ND | ug/kg | 852 | 1 | 06/21/10 10:30 | 06/28/10 18:16 | 100-01-6 | |
| Nitrobenzene | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 18:16 | 98-95-3 | |
| 2-Nitrophenol | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 18:16 | 88-75-5 | |
| 4-Nitrophenol | ND | ug/kg | 2130 | 1 | 06/21/10 10:30 | 06/28/10 18:16 | 100-02-7 | |
| N-Nitrosodimethylamine | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 18:16 | 62-75-9 | |
| N-Nitroso-di-n-propylamine | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 18:16 | 621-64-7 | |
| N-Nitrosodiphenylamine | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 18:16 | 86-30-6 | |
| Pentachlorophenol | ND | ug/kg | 2130 | 1 | 06/21/10 10:30 | 06/28/10 18:16 | 87-86-5 | |
| Phenanthrene | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 18:16 | 85-01-8 | |
| Phenol | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 18:16 | 108-95-2 | |
| Pyrene | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 18:16 | 129-00-0 | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 18:16 | 120-82-1 | |
| 2,4,5-Trichlorophenol | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 18:16 | 95-95-4 | |
| 2,4,6-Trichlorophenol | ND | ug/kg | 426 | 1 | 06/21/10 10:30 | 06/28/10 18:16 | 88-06-2 | |
| Nitrobenzene-d5 (S) | 44 | % | 23-110 | 1 | 06/21/10 10:30 | 06/28/10 18:16 | 4165-60-0 | |
| 2-Fluorobiphenyl (S) | 41 | % | 30-110 | 1 | 06/21/10 10:30 | 06/28/10 18:16 | 321-60-8 | |
| Terphenyl-d14 (S) | 50 | % | 28-110 | 1 | 06/21/10 10:30 | 06/28/10 18:16 | 1718-51-0 | |
| Phenol-d6 (S) | 48 | % | 22-110 | 1 | 06/21/10 10:30 | 06/28/10 18:16 | 13127-88-3 | |
| 2-Fluorophenol (S) | 42 | % | 13-110 | 1 | 06/21/10 10:30 | 06/28/10 18:16 | 367-12-4 | |
| 2,4,6-Tribromophenol (S) | 51 | % | 27-110 | 1 | 06/21/10 10:30 | 06/28/10 18:16 | 118-79-6 | |
| **8260/5035A Volatile Organics** | Analytical Method: EPA 8260 | | | | | | | |
| Acetone | ND | ug/kg | 933 | 10 | | 06/24/10 14:34 | 67-64-1 | |
| Benzene | ND | ug/kg | 46.6 | 10 | | 06/24/10 14:34 | 71-43-2 | |
| Bromobenzene | ND | ug/kg | 46.6 | 10 | | 06/24/10 14:34 | 108-86-1 | |
| Bromochloromethane | ND | ug/kg | 46.6 | 10 | | 06/24/10 14:34 | 74-97-5 | |
| Bromodichloromethane | ND | ug/kg | 46.6 | 10 | | 06/24/10 14:34 | 75-27-4 | |



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# ANALYTICAL RESULTS

Project: Volvo : Asheville
Pace Project No.: 9271695

**Sample: PSS1 (16-18)** **Lab ID: 9271695009** Collected: 06/15/10 17:30 Received: 06/17/10 08:00 Matrix: Solid

***Results reported on a "dry-weight" basis***

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **8260/5035A Volatile Organics** | Analytical Method: EPA 8260 | | | | | | | |
| Bromoform | ND | ug/kg | 46.6 | 10 | | 06/24/10 14:34 | 75-25-2 | |
| Bromomethane | ND | ug/kg | 93.3 | 10 | | 06/24/10 14:34 | 74-83-9 | |
| 2-Butanone (MEK) | ND | ug/kg | 933 | 10 | | 06/24/10 14:34 | 78-93-3 | |
| n-Butylbenzene | ND | ug/kg | 46.6 | 10 | | 06/24/10 14:34 | 104-51-8 | |
| sec-Butylbenzene | ND | ug/kg | 46.6 | 10 | | 06/24/10 14:34 | 135-98-8 | |
| tert-Butylbenzene | ND | ug/kg | 46.6 | 10 | | 06/24/10 14:34 | 98-06-6 | |
| Carbon tetrachloride | ND | ug/kg | 46.6 | 10 | | 06/24/10 14:34 | 56-23-5 | |
| Chlorobenzene | ND | ug/kg | 46.6 | 10 | | 06/24/10 14:34 | 108-90-7 | |
| Chloroethane | ND | ug/kg | 93.3 | 10 | | 06/24/10 14:34 | 75-00-3 | |
| Chloroform | ND | ug/kg | 46.6 | 10 | | 06/24/10 14:34 | 67-66-3 | |
| Chloromethane | ND | ug/kg | 93.3 | 10 | | 06/24/10 14:34 | 74-87-3 | |
| 2-Chlorotoluene | ND | ug/kg | 46.6 | 10 | | 06/24/10 14:34 | 95-49-8 | |
| 4-Chlorotoluene | ND | ug/kg | 46.6 | 10 | | 06/24/10 14:34 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 46.6 | 10 | | 06/24/10 14:34 | 96-12-8 | |
| Dibromochloromethane | ND | ug/kg | 46.6 | 10 | | 06/24/10 14:34 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | ND | ug/kg | 46.6 | 10 | | 06/24/10 14:34 | 106-93-4 | |
| Dibromomethane | ND | ug/kg | 46.6 | 10 | | 06/24/10 14:34 | 74-95-3 | |
| 1,2-Dichlorobenzene | ND | ug/kg | 46.6 | 10 | | 06/24/10 14:34 | 95-50-1 | |
| 1,3-Dichlorobenzene | ND | ug/kg | 46.6 | 10 | | 06/24/10 14:34 | 541-73-1 | |
| 1,4-Dichlorobenzene | ND | ug/kg | 46.6 | 10 | | 06/24/10 14:34 | 106-46-7 | |
| Dichlorodifluoromethane | ND | ug/kg | 93.3 | 10 | | 06/24/10 14:34 | 75-71-8 | D3 |
| 1,1-Dichloroethane | ND | ug/kg | 46.6 | 10 | | 06/24/10 14:34 | 75-34-3 | |
| 1,2-Dichloroethane | ND | ug/kg | 46.6 | 10 | | 06/24/10 14:34 | 107-06-2 | |
| 1,1-Dichloroethene | ND | ug/kg | 46.6 | 10 | | 06/24/10 14:34 | 75-35-4 | |
| cis-1,2-Dichloroethene | ND | ug/kg | 46.6 | 10 | | 06/24/10 14:34 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/kg | 46.6 | 10 | | 06/24/10 14:34 | 156-60-5 | |
| 1,2-Dichloropropane | ND | ug/kg | 46.6 | 10 | | 06/24/10 14:34 | 78-87-5 | |
| 1,3-Dichloropropane | ND | ug/kg | 46.6 | 10 | | 06/24/10 14:34 | 142-28-9 | |
| 2,2-Dichloropropane | ND | ug/kg | 46.6 | 10 | | 06/24/10 14:34 | 594-20-7 | |
| 1,1-Dichloropropene | ND | ug/kg | 46.6 | 10 | | 06/24/10 14:34 | 563-58-6 | |
| cis-1,3-Dichloropropene | ND | ug/kg | 46.6 | 10 | | 06/24/10 14:34 | 10061-01-5 | |
| trans-1,3-Dichloropropene | ND | ug/kg | 46.6 | 10 | | 06/24/10 14:34 | 10061-02-6 | |
| Diisopropyl ether | ND | ug/kg | 46.6 | 10 | | 06/24/10 14:34 | 108-20-3 | |
| Ethylbenzene | ND | ug/kg | 46.6 | 10 | | 06/24/10 14:34 | 100-41-4 | |
| Hexachloro-1,3-butadiene | ND | ug/kg | 46.6 | 10 | | 06/24/10 14:34 | 87-68-3 | |
| 2-Hexanone | ND | ug/kg | 466 | 10 | | 06/24/10 14:34 | 591-78-6 | |
| Isopropylbenzene (Cumene) | ND | ug/kg | 46.6 | 10 | | 06/24/10 14:34 | 98-82-8 | |
| p-Isopropyltoluene | ND | ug/kg | 46.6 | 10 | | 06/24/10 14:34 | 99-87-6 | |
| Methylene Chloride | ND | ug/kg | 187 | 10 | | 06/24/10 14:34 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/kg | 466 | 10 | | 06/24/10 14:34 | 108-10-1 | |
| Methyl-tert-butyl ether | ND | ug/kg | 46.6 | 10 | | 06/24/10 14:34 | 1634-04-4 | |
| Naphthalene | ND | ug/kg | 46.6 | 10 | | 06/24/10 14:34 | 91-20-3 | |
| n-Propylbenzene | ND | ug/kg | 46.6 | 10 | | 06/24/10 14:34 | 103-65-1 | |
| Styrene | ND | ug/kg | 46.6 | 10 | | 06/24/10 14:34 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | ND | ug/kg | 46.6 | 10 | | 06/24/10 14:34 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 46.6 | 10 | | 06/24/10 14:34 | 79-34-5 | |



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# ANALYTICAL RESULTS

Project: Volvo : Asheville
Pace Project No.: 9271695

**Sample: PSS1 (16-18)** **Lab ID: 9271695009** Collected: 06/15/10 17:30 Received: 06/17/10 08:00 Matrix: Solid

***Results reported on a "dry-weight" basis***

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **8260/5035A Volatile Organics** | Analytical Method: EPA 8260 | | | | | | | |
| Tetrachloroethene | ND | ug/kg | 46.6 | 10 | | 06/24/10 14:34 | 127-18-4 | |
| Toluene | ND | ug/kg | 46.6 | 10 | | 06/24/10 14:34 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 46.6 | 10 | | 06/24/10 14:34 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 46.6 | 10 | | 06/24/10 14:34 | 120-82-1 | |
| 1,1,1-Trichloroethane | ND | ug/kg | 46.6 | 10 | | 06/24/10 14:34 | 71-55-6 | |
| 1,1,2-Trichloroethane | ND | ug/kg | 46.6 | 10 | | 06/24/10 14:34 | 79-00-5 | |
| Trichloroethene | ND | ug/kg | 46.6 | 10 | | 06/24/10 14:34 | 79-01-6 | |
| Trichlorofluoromethane | ND | ug/kg | 46.6 | 10 | | 06/24/10 14:34 | 75-69-4 | |
| 1,2,3-Trichloropropane | ND | ug/kg | 46.6 | 10 | | 06/24/10 14:34 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | ND | ug/kg | 46.6 | 10 | | 06/24/10 14:34 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | ND | ug/kg | 46.6 | 10 | | 06/24/10 14:34 | 108-67-8 | |
| Vinyl acetate | ND | ug/kg | 466 | 10 | | 06/24/10 14:34 | 108-05-4 | |
| Vinyl chloride | ND | ug/kg | 93.3 | 10 | | 06/24/10 14:34 | 75-01-4 | |
| Xylene (Total) | ND | ug/kg | 93.3 | 10 | | 06/24/10 14:34 | 1330-20-7 | |
| m&p-Xylene | ND | ug/kg | 93.3 | 10 | | 06/24/10 14:34 | 179601-23-1 | |
| o-Xylene | ND | ug/kg | 46.6 | 10 | | 06/24/10 14:34 | 95-47-6 | |
| Dibromofluoromethane (S) | 105 | % | 70-130 | 10 | | 06/24/10 14:34 | 1868-53-7 | |
| Toluene-d8 (S) | 97 | % | 70-130 | 10 | | 06/24/10 14:34 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 97 | % | 70-130 | 10 | | 06/24/10 14:34 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 97 | % | 70-132 | 10 | | 06/24/10 14:34 | 17060-07-0 | |
| **Percent Moisture** | Analytical Method: ASTM D2974-87 | | | | | | | |
| Percent Moisture | **22.5** | % | 0.10 | 1 | | 06/18/10 13:23 | | |
| **Trivalent Chromium Calculation** | Analytical Method: Trivalent Chromium Calculation | | | | | | | |
| Chromium, Trivalent | **29.8** | mg/kg | 5.0 | 1 | | 07/09/10 09:19 | 16065-83-1 | |
| **7196 Chromium, Hexavalent** | Analytical Method: EPA 7196 Preparation Method: EPA 7196 | | | | | | | |
| Chromium, Hexavalent | ND | mg/kg | 5.8 | 1 | 07/08/10 14:00 | 07/08/10 15:05 | 18540-29-9 | |



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# ANALYTICAL RESULTS

Project: Volvo : Asheville
Pace Project No.: 9271695

**Sample: PSS2 (14-15)** **Lab ID: 9271695010** Collected: 06/15/10 16:20 Received: 06/17/10 08:00 Matrix: Solid

***Results reported on a "dry-weight" basis***

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **8081 GCS Pesticides** | Analytical Method: EPA 8081 | | | | | | | |
| Aldrin | ND | ug/kg | 1.7 | 1 | 06/23/10 12:24 | 06/29/10 19:46 | 309-00-2 | L1 |
| alpha-BHC | ND | ug/kg | 1.7 | 1 | 06/23/10 12:24 | 06/29/10 19:46 | 319-84-6 | |
| beta-BHC | ND | ug/kg | 1.7 | 1 | 06/23/10 12:24 | 06/29/10 19:46 | 319-85-7 | |
| delta-BHC | ND | ug/kg | 1.7 | 1 | 06/23/10 12:24 | 06/29/10 19:46 | 319-86-8 | |
| gamma-BHC (Lindane) | ND | ug/kg | 1.7 | 1 | 06/23/10 12:24 | 06/29/10 19:46 | 58-89-9 | |
| Chlordane (Technical) | ND | ug/kg | 16.7 | 1 | 06/23/10 12:24 | 06/29/10 19:46 | 57-74-9 | |
| 4,4'-DDD | ND | ug/kg | 1.7 | 1 | 06/23/10 12:24 | 06/29/10 19:46 | 72-54-8 | |
| 4,4'-DDE | ND | ug/kg | 1.7 | 1 | 06/23/10 12:24 | 06/29/10 19:46 | 72-55-9 | |
| 4,4'-DDT | ND | ug/kg | 1.7 | 1 | 06/23/10 12:24 | 06/29/10 19:46 | 50-29-3 | |
| Dieldrin | ND | ug/kg | 1.7 | 1 | 06/23/10 12:24 | 06/29/10 19:46 | 60-57-1 | |
| Endosulfan I | ND | ug/kg | 1.7 | 1 | 06/23/10 12:24 | 06/29/10 19:46 | 959-98-8 | |
| Endosulfan II | ND | ug/kg | 1.7 | 1 | 06/23/10 12:24 | 06/29/10 19:46 | 33213-65-9 | |
| Endosulfan sulfate | ND | ug/kg | 1.7 | 1 | 06/23/10 12:24 | 06/29/10 19:46 | 1031-07-8 | |
| Endrin | ND | ug/kg | 1.7 | 1 | 06/23/10 12:24 | 06/29/10 19:46 | 72-20-8 | |
| Endrin aldehyde | ND | ug/kg | 1.7 | 1 | 06/23/10 12:24 | 06/29/10 19:46 | 7421-93-4 | |
| Endrin ketone | ND | ug/kg | 1.7 | 1 | 06/23/10 12:24 | 06/29/10 19:46 | 53494-70-5 | |
| Heptachlor | ND | ug/kg | 1.7 | 1 | 06/23/10 12:24 | 06/29/10 19:46 | 76-44-8 | L1 |
| Heptachlor epoxide | ND | ug/kg | 1.7 | 1 | 06/23/10 12:24 | 06/29/10 19:46 | 1024-57-3 | |
| Methoxychlor | ND | ug/kg | 1.7 | 1 | 06/23/10 12:24 | 06/29/10 19:46 | 72-43-5 | |
| Toxaphene | ND | ug/kg | 16.7 | 1 | 06/23/10 12:24 | 06/30/10 19:34 | 8001-35-2 | |
| Tetrachloro-m-xylene (S) | 102 | % | 70-130 | 1 | 06/23/10 12:24 | 06/29/10 19:46 | 877-09-8 | |
| Decachlorobiphenyl (S) | 94 | % | 70-130 | 1 | 06/23/10 12:24 | 06/29/10 19:46 | 2051-24-3 | |
| **8082 GCS PCB** | Analytical Method: EPA 8082 Preparation Method: EPA 3546 | | | | | | | |
| PCB-1016 (Aroclor 1016) | ND | ug/kg | 41.5 | 1 | 06/28/10 12:30 | 06/29/10 08:04 | 12674-11-2 | |
| PCB-1221 (Aroclor 1221) | ND | ug/kg | 41.5 | 1 | 06/28/10 12:30 | 06/29/10 08:04 | 11104-28-2 | |
| PCB-1232 (Aroclor 1232) | ND | ug/kg | 41.5 | 1 | 06/28/10 12:30 | 06/29/10 08:04 | 11141-16-5 | |
| PCB-1242 (Aroclor 1242) | ND | ug/kg | 41.5 | 1 | 06/28/10 12:30 | 06/29/10 08:04 | 53469-21-9 | |
| PCB-1248 (Aroclor 1248) | ND | ug/kg | 41.5 | 1 | 06/28/10 12:30 | 06/29/10 08:04 | 12672-29-6 | |
| PCB-1254 (Aroclor 1254) | ND | ug/kg | 41.5 | 1 | 06/28/10 12:30 | 06/29/10 08:04 | 11097-69-1 | |
| PCB-1260 (Aroclor 1260) | ND | ug/kg | 41.5 | 1 | 06/28/10 12:30 | 06/29/10 08:04 | 11096-82-5 | |
| Decachlorobiphenyl (S) | 45 | % | 21-132 | 1 | 06/28/10 12:30 | 06/29/10 08:04 | 2051-24-3 | |
| **MADEP EPH NC Soil** | Analytical Method: MADEP EPH Preparation Method: MADEP EPH | | | | | | | |
| Aliphatic (C09-C18) | ND | mg/kg | 629 | 50 | 06/21/10 13:00 | 06/23/10 05:25 | | |
| Aliphatic (C19-C36) | **1200** | mg/kg | 629 | 50 | 06/21/10 13:00 | 06/23/10 05:25 | | |
| Aromatic (C11-C22) | **365** | mg/kg | 50.3 | 4 | 06/21/10 13:00 | 06/23/10 11:07 | | |
| Nonatriacontane (S) | 0 | % | 40-140 | 50 | 06/21/10 13:00 | 06/23/10 05:25 | 7194-86-7 | S4 |
| o-Terphenyl (S) | 196 | % | 40-140 | 4 | 06/21/10 13:00 | 06/23/10 11:07 | 84-15-1 | S5 |
| 2-Fluorobiphenyl (S) | 122 | % | 40-140 | 4 | 06/21/10 13:00 | 06/23/10 11:07 | 321-60-8 | |
| 2-Bromonaphthalene (S) | 232 | % | 40-140 | 4 | 06/21/10 13:00 | 06/23/10 11:07 | 580-13-2 | S5 |
| **VPH NC Soil** | Analytical Method: MADEP VPH Preparation Method: MADEP VPH | | | | | | | |
| Aliphatic (C05-C08) | ND | mg/kg | 10 | 1 | 06/25/10 09:47 | 06/25/10 16:15 | | |
| Aliphatic (C09-C12) | ND | mg/kg | 10 | 1 | 06/25/10 09:47 | 06/25/10 16:15 | | |



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# ANALYTICAL RESULTS

Project: Volvo : Asheville
Pace Project No.: 9271695

**Sample: PSS2 (14-15)** **Lab ID: 9271695010** Collected: 06/15/10 16:20 Received: 06/17/10 08:00 Matrix: Solid

***Results reported on a "dry-weight" basis***

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **VPH NC Soil** | Analytical Method: MADEP VPH Preparation Method: MADEP VPH | | | | | | | |
| Aromatic (C09-C10) | ND | mg/kg | 10 | 1 | 06/25/10 09:47 | 06/25/10 16:15 | | |
| 2,5-Dibromotoluene (PID)(S) | 129 | % | 70-130 | 1 | 06/25/10 09:47 | 06/25/10 16:15 | | |
| 2,5-Dibromotoluene (FID)(S) | 157 | % | 70-130 | 1 | 06/25/10 09:47 | 06/25/10 16:15 | | S3 |
| **6010 MET ICP** | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | |
| Chromium | **26.0** | mg/kg | 0.47 | 1 | 06/18/10 15:25 | 06/21/10 17:53 | 7440-47-3 | |
| Lead | **9.7** | mg/kg | 0.47 | 1 | 06/18/10 15:25 | 06/21/10 17:53 | 7439-92-1 | |
| **8270 MSSV FULL LIST MICROWAVE** | Analytical Method: EPA 8270 Preparation Method: EPA 3546 | | | | | | | |
| Acenaphthene | ND | ug/kg | 415 | 1 | 06/21/10 10:30 | 06/28/10 18:51 | 83-32-9 | |
| Acenaphthylene | ND | ug/kg | 415 | 1 | 06/21/10 10:30 | 06/28/10 18:51 | 208-96-8 | |
| Aniline | ND | ug/kg | 415 | 1 | 06/21/10 10:30 | 06/28/10 18:51 | 62-53-3 | |
| Anthracene | ND | ug/kg | 415 | 1 | 06/21/10 10:30 | 06/28/10 18:51 | 120-12-7 | |
| Benzo(a)anthracene | ND | ug/kg | 415 | 1 | 06/21/10 10:30 | 06/28/10 18:51 | 56-55-3 | |
| Benzo(a)pyrene | ND | ug/kg | 415 | 1 | 06/21/10 10:30 | 06/28/10 18:51 | 50-32-8 | |
| Benzo(b)fluoranthene | ND | ug/kg | 415 | 1 | 06/21/10 10:30 | 06/28/10 18:51 | 205-99-2 | |
| Benzo(g,h,i)perylene | ND | ug/kg | 415 | 1 | 06/21/10 10:30 | 06/28/10 18:51 | 191-24-2 | |
| Benzo(k)fluoranthene | ND | ug/kg | 415 | 1 | 06/21/10 10:30 | 06/28/10 18:51 | 207-08-9 | |
| Benzoic Acid | ND | ug/kg | 2080 | 1 | 06/21/10 10:30 | 06/28/10 18:51 | 65-85-0 | |
| Benzyl alcohol | ND | ug/kg | 830 | 1 | 06/21/10 10:30 | 06/28/10 18:51 | 100-51-6 | |
| 4-Bromophenylphenyl ether | ND | ug/kg | 415 | 1 | 06/21/10 10:30 | 06/28/10 18:51 | 101-55-3 | |
| Butylbenzylphthalate | ND | ug/kg | 415 | 1 | 06/21/10 10:30 | 06/28/10 18:51 | 85-68-7 | |
| 4-Chloro-3-methylphenol | ND | ug/kg | 830 | 1 | 06/21/10 10:30 | 06/28/10 18:51 | 59-50-7 | |
| 4-Chloroaniline | ND | ug/kg | 2080 | 1 | 06/21/10 10:30 | 06/28/10 18:51 | 106-47-8 | |
| bis(2-Chloroethoxy)methane | ND | ug/kg | 415 | 1 | 06/21/10 10:30 | 06/28/10 18:51 | 111-91-1 | |
| bis(2-Chloroethyl) ether | ND | ug/kg | 415 | 1 | 06/21/10 10:30 | 06/28/10 18:51 | 111-44-4 | |
| bis(2-Chloroisopropyl) ether | ND | ug/kg | 415 | 1 | 06/21/10 10:30 | 06/28/10 18:51 | 108-60-1 | |
| 2-Chloronaphthalene | ND | ug/kg | 415 | 1 | 06/21/10 10:30 | 06/28/10 18:51 | 91-58-7 | |
| 2-Chlorophenol | ND | ug/kg | 415 | 1 | 06/21/10 10:30 | 06/28/10 18:51 | 95-57-8 | |
| 4-Chlorophenylphenyl ether | ND | ug/kg | 415 | 1 | 06/21/10 10:30 | 06/28/10 18:51 | 7005-72-3 | |
| Chrysene | ND | ug/kg | 415 | 1 | 06/21/10 10:30 | 06/28/10 18:51 | 218-01-9 | |
| Dibenz(a,h)anthracene | ND | ug/kg | 415 | 1 | 06/21/10 10:30 | 06/28/10 18:51 | 53-70-3 | |
| Dibenzofuran | ND | ug/kg | 415 | 1 | 06/21/10 10:30 | 06/28/10 18:51 | 132-64-9 | |
| 1,2-Dichlorobenzene | ND | ug/kg | 415 | 1 | 06/21/10 10:30 | 06/28/10 18:51 | 95-50-1 | |
| 1,3-Dichlorobenzene | ND | ug/kg | 415 | 1 | 06/21/10 10:30 | 06/28/10 18:51 | 541-73-1 | |
| 1,4-Dichlorobenzene | ND | ug/kg | 415 | 1 | 06/21/10 10:30 | 06/28/10 18:51 | 106-46-7 | |
| 3,3'-Dichlorobenzidine | ND | ug/kg | 2080 | 1 | 06/21/10 10:30 | 06/28/10 18:51 | 91-94-1 | |
| 2,4-Dichlorophenol | ND | ug/kg | 415 | 1 | 06/21/10 10:30 | 06/28/10 18:51 | 120-83-2 | |
| Diethylphthalate | ND | ug/kg | 415 | 1 | 06/21/10 10:30 | 06/28/10 18:51 | 84-66-2 | |
| 2,4-Dimethylphenol | ND | ug/kg | 415 | 1 | 06/21/10 10:30 | 06/28/10 18:51 | 105-67-9 | |
| Dimethylphthalate | ND | ug/kg | 415 | 1 | 06/21/10 10:30 | 06/28/10 18:51 | 131-11-3 | |
| Di-n-butylphthalate | ND | ug/kg | 415 | 1 | 06/21/10 10:30 | 06/28/10 18:51 | 84-74-2 | |
| 4,6-Dinitro-2-methylphenol | ND | ug/kg | 830 | 1 | 06/21/10 10:30 | 06/28/10 18:51 | 534-52-1 | |
| 2,4-Dinitrophenol | ND | ug/kg | 2080 | 1 | 06/21/10 10:30 | 06/28/10 18:51 | 51-28-5 | |
| 2,4-Dinitrotoluene | ND | ug/kg | 415 | 1 | 06/21/10 10:30 | 06/28/10 18:51 | 121-14-2 | |



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# ANALYTICAL RESULTS

Project: Volvo : Asheville
Pace Project No.: 9271695

**Sample: PSS2 (14-15)** **Lab ID: 9271695010** Collected: 06/15/10 16:20 Received: 06/17/10 08:00 Matrix: Solid

***Results reported on a "dry-weight" basis***

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **8270 MSSV FULL LIST MICROWAVE** | Analytical Method: EPA 8270 Preparation Method: EPA 3546 | | | | | | | |
| 2,6-Dinitrotoluene | ND | ug/kg | 415 | 1 | 06/21/10 10:30 | 06/28/10 18:51 | 606-20-2 | |
| Di-n-octylphthalate | ND | ug/kg | 415 | 1 | 06/21/10 10:30 | 06/28/10 18:51 | 117-84-0 | |
| bis(2-Ethylhexyl)phthalate | ND | ug/kg | 415 | 1 | 06/21/10 10:30 | 06/28/10 18:51 | 117-81-7 | |
| Fluoranthene | ND | ug/kg | 415 | 1 | 06/21/10 10:30 | 06/28/10 18:51 | 206-44-0 | |
| Fluorene | ND | ug/kg | 415 | 1 | 06/21/10 10:30 | 06/28/10 18:51 | 86-73-7 | |
| Hexachloro-1,3-butadiene | ND | ug/kg | 415 | 1 | 06/21/10 10:30 | 06/28/10 18:51 | 87-68-3 | |
| Hexachlorobenzene | ND | ug/kg | 415 | 1 | 06/21/10 10:30 | 06/28/10 18:51 | 118-74-1 | |
| Hexachlorocyclopentadiene | ND | ug/kg | 415 | 1 | 06/21/10 10:30 | 06/28/10 18:51 | 77-47-4 | |
| Hexachloroethane | ND | ug/kg | 415 | 1 | 06/21/10 10:30 | 06/28/10 18:51 | 67-72-1 | |
| Indeno(1,2,3-cd)pyrene | ND | ug/kg | 415 | 1 | 06/21/10 10:30 | 06/28/10 18:51 | 193-39-5 | |
| Isophorone | ND | ug/kg | 415 | 1 | 06/21/10 10:30 | 06/28/10 18:51 | 78-59-1 | |
| 1-Methylnaphthalene | ND | ug/kg | 415 | 1 | 06/21/10 10:30 | 06/28/10 18:51 | 90-12-0 | |
| 2-Methylnaphthalene | ND | ug/kg | 415 | 1 | 06/21/10 10:30 | 06/28/10 18:51 | 91-57-6 | |
| 2-Methylphenol(o-Cresol) | ND | ug/kg | 415 | 1 | 06/21/10 10:30 | 06/28/10 18:51 | 95-48-7 | |
| 3&4-Methylphenol(m&p Cresol) | ND | ug/kg | 415 | 1 | 06/21/10 10:30 | 06/28/10 18:51 | | |
| Naphthalene | ND | ug/kg | 415 | 1 | 06/21/10 10:30 | 06/28/10 18:51 | 91-20-3 | |
| 2-Nitroaniline | ND | ug/kg | 2080 | 1 | 06/21/10 10:30 | 06/28/10 18:51 | 88-74-4 | |
| 3-Nitroaniline | ND | ug/kg | 2080 | 1 | 06/21/10 10:30 | 06/28/10 18:51 | 99-09-2 | |
| 4-Nitroaniline | ND | ug/kg | 830 | 1 | 06/21/10 10:30 | 06/28/10 18:51 | 100-01-6 | |
| Nitrobenzene | ND | ug/kg | 415 | 1 | 06/21/10 10:30 | 06/28/10 18:51 | 98-95-3 | |
| 2-Nitrophenol | ND | ug/kg | 415 | 1 | 06/21/10 10:30 | 06/28/10 18:51 | 88-75-5 | |
| 4-Nitrophenol | ND | ug/kg | 2080 | 1 | 06/21/10 10:30 | 06/28/10 18:51 | 100-02-7 | |
| N-Nitrosodimethylamine | ND | ug/kg | 415 | 1 | 06/21/10 10:30 | 06/28/10 18:51 | 62-75-9 | |
| N-Nitroso-di-n-propylamine | ND | ug/kg | 415 | 1 | 06/21/10 10:30 | 06/28/10 18:51 | 621-64-7 | |
| N-Nitrosodiphenylamine | ND | ug/kg | 415 | 1 | 06/21/10 10:30 | 06/28/10 18:51 | 86-30-6 | |
| Pentachlorophenol | ND | ug/kg | 2080 | 1 | 06/21/10 10:30 | 06/28/10 18:51 | 87-86-5 | |
| Phenanthrene | ND | ug/kg | 415 | 1 | 06/21/10 10:30 | 06/28/10 18:51 | 85-01-8 | |
| Phenol | ND | ug/kg | 415 | 1 | 06/21/10 10:30 | 06/28/10 18:51 | 108-95-2 | |
| Pyrene | ND | ug/kg | 415 | 1 | 06/21/10 10:30 | 06/28/10 18:51 | 129-00-0 | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 415 | 1 | 06/21/10 10:30 | 06/28/10 18:51 | 120-82-1 | |
| 2,4,5-Trichlorophenol | ND | ug/kg | 415 | 1 | 06/21/10 10:30 | 06/28/10 18:51 | 95-95-4 | |
| 2,4,6-Trichlorophenol | ND | ug/kg | 415 | 1 | 06/21/10 10:30 | 06/28/10 18:51 | 88-06-2 | |
| Nitrobenzene-d5 (S) | 41 | % | 23-110 | 1 | 06/21/10 10:30 | 06/28/10 18:51 | 4165-60-0 | |
| 2-Fluorobiphenyl (S) | 50 | % | 30-110 | 1 | 06/21/10 10:30 | 06/28/10 18:51 | 321-60-8 | |
| Terphenyl-d14 (S) | 58 | % | 28-110 | 1 | 06/21/10 10:30 | 06/28/10 18:51 | 1718-51-0 | |
| Phenol-d6 (S) | 43 | % | 22-110 | 1 | 06/21/10 10:30 | 06/28/10 18:51 | 13127-88-3 | |
| 2-Fluorophenol (S) | 31 | % | 13-110 | 1 | 06/21/10 10:30 | 06/28/10 18:51 | 367-12-4 | |
| 2,4,6-Tribromophenol (S) | 65 | % | 27-110 | 1 | 06/21/10 10:30 | 06/28/10 18:51 | 118-79-6 | |
| **8260/5035A Volatile Organics** | Analytical Method: EPA 8260 | | | | | | | |
| Acetone | ND | ug/kg | 1910 | 20 | | 06/24/10 13:57 | 67-64-1 | |
| Benzene | ND | ug/kg | 95.6 | 20 | | 06/24/10 13:57 | 71-43-2 | |
| Bromobenzene | ND | ug/kg | 95.6 | 20 | | 06/24/10 13:57 | 108-86-1 | |
| Bromochloromethane | ND | ug/kg | 95.6 | 20 | | 06/24/10 13:57 | 74-97-5 | |
| Bromodichloromethane | ND | ug/kg | 95.6 | 20 | | 06/24/10 13:57 | 75-27-4 | |



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# ANALYTICAL RESULTS

Project: Volvo : Asheville
Pace Project No.: 9271695

**Sample: PSS2 (14-15)** **Lab ID: 9271695010** Collected: 06/15/10 16:20 Received: 06/17/10 08:00 Matrix: Solid

***Results reported on a "dry-weight" basis***

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **8260/5035A Volatile Organics** | Analytical Method: EPA 8260 | | | | | | | |
| Bromoform | ND | ug/kg | 95.6 | 20 | | 06/24/10 13:57 | 75-25-2 | |
| Bromomethane | ND | ug/kg | 191 | 20 | | 06/24/10 13:57 | 74-83-9 | |
| 2-Butanone (MEK) | ND | ug/kg | 1910 | 20 | | 06/24/10 13:57 | 78-93-3 | |
| n-Butylbenzene | ND | ug/kg | 95.6 | 20 | | 06/24/10 13:57 | 104-51-8 | |
| sec-Butylbenzene | ND | ug/kg | 95.6 | 20 | | 06/24/10 13:57 | 135-98-8 | |
| tert-Butylbenzene | ND | ug/kg | 95.6 | 20 | | 06/24/10 13:57 | 98-06-6 | |
| Carbon tetrachloride | ND | ug/kg | 95.6 | 20 | | 06/24/10 13:57 | 56-23-5 | |
| Chlorobenzene | ND | ug/kg | 95.6 | 20 | | 06/24/10 13:57 | 108-90-7 | |
| Chloroethane | ND | ug/kg | 191 | 20 | | 06/24/10 13:57 | 75-00-3 | |
| Chloroform | ND | ug/kg | 95.6 | 20 | | 06/24/10 13:57 | 67-66-3 | |
| Chloromethane | ND | ug/kg | 191 | 20 | | 06/24/10 13:57 | 74-87-3 | |
| 2-Chlorotoluene | ND | ug/kg | 95.6 | 20 | | 06/24/10 13:57 | 95-49-8 | |
| 4-Chlorotoluene | ND | ug/kg | 95.6 | 20 | | 06/24/10 13:57 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 95.6 | 20 | | 06/24/10 13:57 | 96-12-8 | |
| Dibromochloromethane | ND | ug/kg | 95.6 | 20 | | 06/24/10 13:57 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | ND | ug/kg | 95.6 | 20 | | 06/24/10 13:57 | 106-93-4 | |
| Dibromomethane | ND | ug/kg | 95.6 | 20 | | 06/24/10 13:57 | 74-95-3 | |
| 1,2-Dichlorobenzene | ND | ug/kg | 95.6 | 20 | | 06/24/10 13:57 | 95-50-1 | |
| 1,3-Dichlorobenzene | ND | ug/kg | 95.6 | 20 | | 06/24/10 13:57 | 541-73-1 | |
| 1,4-Dichlorobenzene | ND | ug/kg | 95.6 | 20 | | 06/24/10 13:57 | 106-46-7 | |
| Dichlorodifluoromethane | ND | ug/kg | 191 | 20 | | 06/24/10 13:57 | 75-71-8 | D3 |
| 1,1-Dichloroethane | ND | ug/kg | 95.6 | 20 | | 06/24/10 13:57 | 75-34-3 | |
| 1,2-Dichloroethane | ND | ug/kg | 95.6 | 20 | | 06/24/10 13:57 | 107-06-2 | |
| 1,1-Dichloroethene | ND | ug/kg | 95.6 | 20 | | 06/24/10 13:57 | 75-35-4 | |
| cis-1,2-Dichloroethene | ND | ug/kg | 95.6 | 20 | | 06/24/10 13:57 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/kg | 95.6 | 20 | | 06/24/10 13:57 | 156-60-5 | |
| 1,2-Dichloropropane | ND | ug/kg | 95.6 | 20 | | 06/24/10 13:57 | 78-87-5 | |
| 1,3-Dichloropropane | ND | ug/kg | 95.6 | 20 | | 06/24/10 13:57 | 142-28-9 | |
| 2,2-Dichloropropane | ND | ug/kg | 95.6 | 20 | | 06/24/10 13:57 | 594-20-7 | |
| 1,1-Dichloropropene | ND | ug/kg | 95.6 | 20 | | 06/24/10 13:57 | 563-58-6 | |
| cis-1,3-Dichloropropene | ND | ug/kg | 95.6 | 20 | | 06/24/10 13:57 | 10061-01-5 | |
| trans-1,3-Dichloropropene | ND | ug/kg | 95.6 | 20 | | 06/24/10 13:57 | 10061-02-6 | |
| Diisopropyl ether | ND | ug/kg | 95.6 | 20 | | 06/24/10 13:57 | 108-20-3 | |
| Ethylbenzene | ND | ug/kg | 95.6 | 20 | | 06/24/10 13:57 | 100-41-4 | |
| Hexachloro-1,3-butadiene | ND | ug/kg | 95.6 | 20 | | 06/24/10 13:57 | 87-68-3 | |
| 2-Hexanone | ND | ug/kg | 956 | 20 | | 06/24/10 13:57 | 591-78-6 | |
| Isopropylbenzene (Cumene) | ND | ug/kg | 95.6 | 20 | | 06/24/10 13:57 | 98-82-8 | |
| p-Isopropyltoluene | ND | ug/kg | 95.6 | 20 | | 06/24/10 13:57 | 99-87-6 | |
| Methylene Chloride | ND | ug/kg | 382 | 20 | | 06/24/10 13:57 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/kg | 956 | 20 | | 06/24/10 13:57 | 108-10-1 | |
| Methyl-tert-butyl ether | ND | ug/kg | 95.6 | 20 | | 06/24/10 13:57 | 1634-04-4 | |
| Naphthalene | ND | ug/kg | 95.6 | 20 | | 06/24/10 13:57 | 91-20-3 | |
| n-Propylbenzene | ND | ug/kg | 95.6 | 20 | | 06/24/10 13:57 | 103-65-1 | |
| Styrene | ND | ug/kg | 95.6 | 20 | | 06/24/10 13:57 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | ND | ug/kg | 95.6 | 20 | | 06/24/10 13:57 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 95.6 | 20 | | 06/24/10 13:57 | 79-34-5 | |



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# ANALYTICAL RESULTS

Project: Volvo : Asheville
Pace Project No.: 9271695

**Sample: PSS2 (14-15)** **Lab ID: 9271695010** Collected: 06/15/10 16:20 Received: 06/17/10 08:00 Matrix: Solid

***Results reported on a "dry-weight" basis***

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **8260/5035A Volatile Organics** | Analytical Method: EPA 8260 | | | | | | | |
| Tetrachloroethene | ND | ug/kg | 95.6 | 20 | | 06/24/10 13:57 | 127-18-4 | |
| Toluene | ND | ug/kg | 95.6 | 20 | | 06/24/10 13:57 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 95.6 | 20 | | 06/24/10 13:57 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 95.6 | 20 | | 06/24/10 13:57 | 120-82-1 | |
| 1,1,1-Trichloroethane | ND | ug/kg | 95.6 | 20 | | 06/24/10 13:57 | 71-55-6 | |
| 1,1,2-Trichloroethane | ND | ug/kg | 95.6 | 20 | | 06/24/10 13:57 | 79-00-5 | |
| Trichloroethene | ND | ug/kg | 95.6 | 20 | | 06/24/10 13:57 | 79-01-6 | |
| Trichlorofluoromethane | ND | ug/kg | 95.6 | 20 | | 06/24/10 13:57 | 75-69-4 | |
| 1,2,3-Trichloropropane | ND | ug/kg | 95.6 | 20 | | 06/24/10 13:57 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | ND | ug/kg | 95.6 | 20 | | 06/24/10 13:57 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | ND | ug/kg | 95.6 | 20 | | 06/24/10 13:57 | 108-67-8 | |
| Vinyl acetate | ND | ug/kg | 956 | 20 | | 06/24/10 13:57 | 108-05-4 | |
| Vinyl chloride | ND | ug/kg | 191 | 20 | | 06/24/10 13:57 | 75-01-4 | |
| Xylene (Total) | ND | ug/kg | 191 | 20 | | 06/24/10 13:57 | 1330-20-7 | |
| m&p-Xylene | ND | ug/kg | 191 | 20 | | 06/24/10 13:57 | 179601-23-1 | |
| o-Xylene | ND | ug/kg | 95.6 | 20 | | 06/24/10 13:57 | 95-47-6 | |
| Dibromofluoromethane (S) | 104 | % | 70-130 | 20 | | 06/24/10 13:57 | 1868-53-7 | |
| Toluene-d8 (S) | 99 | % | 70-130 | 20 | | 06/24/10 13:57 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 99 | % | 70-130 | 20 | | 06/24/10 13:57 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 101 | % | 70-132 | 20 | | 06/24/10 13:57 | 17060-07-0 | |
| **Percent Moisture** | Analytical Method: ASTM D2974-87 | | | | | | | |
| Percent Moisture | **20.5** | % | 0.10 | 1 | | 06/18/10 13:22 | | |
| **Trivalent Chromium Calculation** | Analytical Method: Trivalent Chromium Calculation | | | | | | | |
| Chromium, Trivalent | **26.0** | mg/kg | 5.0 | 1 | | 07/09/10 09:19 | 16065-83-1 | |
| **7196 Chromium, Hexavalent** | Analytical Method: EPA 7196 Preparation Method: EPA 7196 | | | | | | | |
| Chromium, Hexavalent | ND | mg/kg | 5.2 | 1 | 07/08/10 14:00 | 07/08/10 15:05 | 18540-29-9 | |



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# ANALYTICAL RESULTS

Project: Volvo : Asheville
Pace Project No.: 9271695

**Sample: PSS3 (10-12)** **Lab ID: 9271695011** Collected: 06/16/10 14:50 Received: 06/17/10 08:00 Matrix: Solid

***Results reported on a "dry-weight" basis***

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **8081 GCS Pesticides** | Analytical Method: EPA 8081 | | | | | | | |
| Aldrin | ND | ug/kg | 1.7 | 1 | 06/23/10 12:24 | 06/29/10 20:03 | 309-00-2 | L1 |
| alpha-BHC | ND | ug/kg | 1.7 | 1 | 06/23/10 12:24 | 06/29/10 20:03 | 319-84-6 | |
| beta-BHC | ND | ug/kg | 1.7 | 1 | 06/23/10 12:24 | 06/29/10 20:03 | 319-85-7 | |
| delta-BHC | ND | ug/kg | 1.7 | 1 | 06/23/10 12:24 | 06/29/10 20:03 | 319-86-8 | |
| gamma-BHC (Lindane) | ND | ug/kg | 1.7 | 1 | 06/23/10 12:24 | 06/29/10 20:03 | 58-89-9 | |
| Chlordane (Technical) | ND | ug/kg | 16.8 | 1 | 06/23/10 12:24 | 06/29/10 20:03 | 57-74-9 | |
| 4,4'-DDD | ND | ug/kg | 1.7 | 1 | 06/23/10 12:24 | 06/29/10 20:03 | 72-54-8 | |
| 4,4'-DDE | ND | ug/kg | 1.7 | 1 | 06/23/10 12:24 | 06/29/10 20:03 | 72-55-9 | |
| 4,4'-DDT | ND | ug/kg | 1.7 | 1 | 06/23/10 12:24 | 06/29/10 20:03 | 50-29-3 | |
| Dieldrin | ND | ug/kg | 1.7 | 1 | 06/23/10 12:24 | 06/29/10 20:03 | 60-57-1 | |
| Endosulfan I | ND | ug/kg | 1.7 | 1 | 06/23/10 12:24 | 06/29/10 20:03 | 959-98-8 | |
| Endosulfan II | ND | ug/kg | 1.7 | 1 | 06/23/10 12:24 | 06/29/10 20:03 | 33213-65-9 | |
| Endosulfan sulfate | ND | ug/kg | 1.7 | 1 | 06/23/10 12:24 | 06/29/10 20:03 | 1031-07-8 | |
| Endrin | ND | ug/kg | 1.7 | 1 | 06/23/10 12:24 | 06/29/10 20:03 | 72-20-8 | |
| Endrin aldehyde | ND | ug/kg | 1.7 | 1 | 06/23/10 12:24 | 06/29/10 20:03 | 7421-93-4 | |
| Endrin ketone | ND | ug/kg | 1.7 | 1 | 06/23/10 12:24 | 06/29/10 20:03 | 53494-70-5 | |
| Heptachlor | ND | ug/kg | 1.7 | 1 | 06/23/10 12:24 | 06/29/10 20:03 | 76-44-8 | L1 |
| Heptachlor epoxide | ND | ug/kg | 1.7 | 1 | 06/23/10 12:24 | 06/29/10 20:03 | 1024-57-3 | |
| Methoxychlor | ND | ug/kg | 1.7 | 1 | 06/23/10 12:24 | 06/29/10 20:03 | 72-43-5 | |
| Toxaphene | ND | ug/kg | 16.8 | 1 | 06/23/10 12:24 | 06/30/10 19:51 | 8001-35-2 | |
| Tetrachloro-m-xylene (S) | 90 | % | 70-130 | 1 | 06/23/10 12:24 | 06/29/10 20:03 | 877-09-8 | |
| Decachlorobiphenyl (S) | 89 | % | 70-130 | 1 | 06/23/10 12:24 | 06/29/10 20:03 | 2051-24-3 | |
| **8082 GCS PCB** | Analytical Method: EPA 8082 Preparation Method: EPA 3546 | | | | | | | |
| PCB-1016 (Aroclor 1016) | ND | ug/kg | 40.0 | 1 | 06/28/10 12:30 | 06/29/10 08:26 | 12674-11-2 | |
| PCB-1221 (Aroclor 1221) | ND | ug/kg | 40.0 | 1 | 06/28/10 12:30 | 06/29/10 08:26 | 11104-28-2 | |
| PCB-1232 (Aroclor 1232) | ND | ug/kg | 40.0 | 1 | 06/28/10 12:30 | 06/29/10 08:26 | 11141-16-5 | |
| PCB-1242 (Aroclor 1242) | ND | ug/kg | 40.0 | 1 | 06/28/10 12:30 | 06/29/10 08:26 | 53469-21-9 | |
| PCB-1248 (Aroclor 1248) | ND | ug/kg | 40.0 | 1 | 06/28/10 12:30 | 06/29/10 08:26 | 12672-29-6 | |
| PCB-1254 (Aroclor 1254) | ND | ug/kg | 40.0 | 1 | 06/28/10 12:30 | 06/29/10 08:26 | 11097-69-1 | |
| PCB-1260 (Aroclor 1260) | ND | ug/kg | 40.0 | 1 | 06/28/10 12:30 | 06/29/10 08:26 | 11096-82-5 | |
| Decachlorobiphenyl (S) | 43 | % | 21-132 | 1 | 06/28/10 12:30 | 06/29/10 08:26 | 2051-24-3 | |
| **MADEP EPH NC Soil** | Analytical Method: MADEP EPH Preparation Method: MADEP EPH | | | | | | | |
| Aliphatic (C09-C18) | ND | mg/kg | 121 | 10 | 06/21/10 13:00 | 06/23/10 06:01 | | |
| Aliphatic (C19-C36) | **284** | mg/kg | 121 | 10 | 06/21/10 13:00 | 06/23/10 06:01 | | |
| Aromatic (C11-C22) | **87.4** | mg/kg | 12.1 | 1 | 06/21/10 13:00 | 06/23/10 11:43 | | |
| Nonatriacontane (S) | 0 | % | 40-140 | 10 | 06/21/10 13:00 | 06/23/10 06:01 | 7194-86-7 | S4 |
| o-Terphenyl (S) | 107 | % | 40-140 | 1 | 06/21/10 13:00 | 06/23/10 11:43 | 84-15-1 | |
| 2-Fluorobiphenyl (S) | 105 | % | 40-140 | 1 | 06/21/10 13:00 | 06/23/10 11:43 | 321-60-8 | |
| 2-Bromonaphthalene (S) | 142 | % | 40-140 | 1 | 06/21/10 13:00 | 06/23/10 11:43 | 580-13-2 | S5 |
| **VPH NC Soil** | Analytical Method: MADEP VPH Preparation Method: MADEP VPH | | | | | | | |
| Aliphatic (C05-C08) | ND | mg/kg | 10.8 | 1 | 06/25/10 09:47 | 06/25/10 16:41 | | |
| Aliphatic (C09-C12) | ND | mg/kg | 10.8 | 1 | 06/25/10 09:47 | 06/25/10 16:41 | | |



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# ANALYTICAL RESULTS

Project: Volvo : Asheville
Pace Project No.: 9271695

**Sample: PSS3 (10-12)** **Lab ID: 9271695011** Collected: 06/16/10 14:50 Received: 06/17/10 08:00 Matrix: Solid

***Results reported on a "dry-weight" basis***

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **VPH NC Soil** | Analytical Method: MADEP VPH Preparation Method: MADEP VPH | | | | | | | |
| Aromatic (C09-C10) | ND | mg/kg | 10.8 | 1 | 06/25/10 09:47 | 06/25/10 16:41 | | |
| 2,5-Dibromotoluene (PID)(S) | 121 | % | 70-130 | 1 | 06/25/10 09:47 | 06/25/10 16:41 | | |
| 2,5-Dibromotoluene (FID)(S) | 153 | % | 70-130 | 1 | 06/25/10 09:47 | 06/25/10 16:41 | | S5 |
| **6010 MET ICP** | Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | |
| Chromium | **25.2** | mg/kg | 0.48 | 1 | 06/18/10 15:25 | 06/21/10 17:56 | 7440-47-3 | |
| Lead | **8.5** | mg/kg | 0.48 | 1 | 06/18/10 15:25 | 06/21/10 17:56 | 7439-92-1 | |
| **8270 MSSV FULL LIST MICROWAVE** | Analytical Method: EPA 8270 Preparation Method: EPA 3546 | | | | | | | |
| Acenaphthene | ND | ug/kg | 400 | 1 | 06/21/10 10:30 | 06/28/10 19:25 | 83-32-9 | |
| Acenaphthylene | ND | ug/kg | 400 | 1 | 06/21/10 10:30 | 06/28/10 19:25 | 208-96-8 | |
| Aniline | ND | ug/kg | 400 | 1 | 06/21/10 10:30 | 06/28/10 19:25 | 62-53-3 | |
| Anthracene | ND | ug/kg | 400 | 1 | 06/21/10 10:30 | 06/28/10 19:25 | 120-12-7 | |
| Benzo(a)anthracene | ND | ug/kg | 400 | 1 | 06/21/10 10:30 | 06/28/10 19:25 | 56-55-3 | |
| Benzo(a)pyrene | ND | ug/kg | 400 | 1 | 06/21/10 10:30 | 06/28/10 19:25 | 50-32-8 | |
| Benzo(b)fluoranthene | ND | ug/kg | 400 | 1 | 06/21/10 10:30 | 06/28/10 19:25 | 205-99-2 | |
| Benzo(g,h,i)perylene | ND | ug/kg | 400 | 1 | 06/21/10 10:30 | 06/28/10 19:25 | 191-24-2 | |
| Benzo(k)fluoranthene | ND | ug/kg | 400 | 1 | 06/21/10 10:30 | 06/28/10 19:25 | 207-08-9 | |
| Benzoic Acid | ND | ug/kg | 2000 | 1 | 06/21/10 10:30 | 06/28/10 19:25 | 65-85-0 | |
| Benzyl alcohol | ND | ug/kg | 800 | 1 | 06/21/10 10:30 | 06/28/10 19:25 | 100-51-6 | |
| 4-Bromophenylphenyl ether | ND | ug/kg | 400 | 1 | 06/21/10 10:30 | 06/28/10 19:25 | 101-55-3 | |
| Butylbenzylphthalate | ND | ug/kg | 400 | 1 | 06/21/10 10:30 | 06/28/10 19:25 | 85-68-7 | |
| 4-Chloro-3-methylphenol | ND | ug/kg | 800 | 1 | 06/21/10 10:30 | 06/28/10 19:25 | 59-50-7 | |
| 4-Chloroaniline | ND | ug/kg | 2000 | 1 | 06/21/10 10:30 | 06/28/10 19:25 | 106-47-8 | |
| bis(2-Chloroethoxy)methane | ND | ug/kg | 400 | 1 | 06/21/10 10:30 | 06/28/10 19:25 | 111-91-1 | |
| bis(2-Chloroethyl) ether | ND | ug/kg | 400 | 1 | 06/21/10 10:30 | 06/28/10 19:25 | 111-44-4 | |
| bis(2-Chloroisopropyl) ether | ND | ug/kg | 400 | 1 | 06/21/10 10:30 | 06/28/10 19:25 | 108-60-1 | |
| 2-Chloronaphthalene | ND | ug/kg | 400 | 1 | 06/21/10 10:30 | 06/28/10 19:25 | 91-58-7 | |
| 2-Chlorophenol | ND | ug/kg | 400 | 1 | 06/21/10 10:30 | 06/28/10 19:25 | 95-57-8 | |
| 4-Chlorophenylphenyl ether | ND | ug/kg | 400 | 1 | 06/21/10 10:30 | 06/28/10 19:25 | 7005-72-3 | |
| Chrysene | ND | ug/kg | 400 | 1 | 06/21/10 10:30 | 06/28/10 19:25 | 218-01-9 | |
| Dibenz(a,h)anthracene | ND | ug/kg | 400 | 1 | 06/21/10 10:30 | 06/28/10 19:25 | 53-70-3 | |
| Dibenzofuran | ND | ug/kg | 400 | 1 | 06/21/10 10:30 | 06/28/10 19:25 | 132-64-9 | |
| 1,2-Dichlorobenzene | ND | ug/kg | 400 | 1 | 06/21/10 10:30 | 06/28/10 19:25 | 95-50-1 | |
| 1,3-Dichlorobenzene | ND | ug/kg | 400 | 1 | 06/21/10 10:30 | 06/28/10 19:25 | 541-73-1 | |
| 1,4-Dichlorobenzene | ND | ug/kg | 400 | 1 | 06/21/10 10:30 | 06/28/10 19:25 | 106-46-7 | |
| 3,3'-Dichlorobenzidine | ND | ug/kg | 2000 | 1 | 06/21/10 10:30 | 06/28/10 19:25 | 91-94-1 | |
| 2,4-Dichlorophenol | ND | ug/kg | 400 | 1 | 06/21/10 10:30 | 06/28/10 19:25 | 120-83-2 | |
| Diethylphthalate | ND | ug/kg | 400 | 1 | 06/21/10 10:30 | 06/28/10 19:25 | 84-66-2 | |
| 2,4-Dimethylphenol | ND | ug/kg | 400 | 1 | 06/21/10 10:30 | 06/28/10 19:25 | 105-67-9 | |
| Dimethylphthalate | ND | ug/kg | 400 | 1 | 06/21/10 10:30 | 06/28/10 19:25 | 131-11-3 | |
| Di-n-butylphthalate | ND | ug/kg | 400 | 1 | 06/21/10 10:30 | 06/28/10 19:25 | 84-74-2 | |
| 4,6-Dinitro-2-methylphenol | ND | ug/kg | 800 | 1 | 06/21/10 10:30 | 06/28/10 19:25 | 534-52-1 | |
| 2,4-Dinitrophenol | ND | ug/kg | 2000 | 1 | 06/21/10 10:30 | 06/28/10 19:25 | 51-28-5 | |
| 2,4-Dinitrotoluene | ND | ug/kg | 400 | 1 | 06/21/10 10:30 | 06/28/10 19:25 | 121-14-2 | |



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# ANALYTICAL RESULTS

Project: Volvo : Asheville
Pace Project No.: 9271695

**Sample: PSS3 (10-12)** **Lab ID: 9271695011** Collected: 06/16/10 14:50 Received: 06/17/10 08:00 Matrix: Solid

***Results reported on a "dry-weight" basis***

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **8270 MSSV FULL LIST MICROWAVE** | Analytical Method: EPA 8270 Preparation Method: EPA 3546 | | | | | | | |
| 2,6-Dinitrotoluene | ND | ug/kg | 400 | 1 | 06/21/10 10:30 | 06/28/10 19:25 | 606-20-2 | |
| Di-n-octylphthalate | ND | ug/kg | 400 | 1 | 06/21/10 10:30 | 06/28/10 19:25 | 117-84-0 | |
| bis(2-Ethylhexyl)phthalate | ND | ug/kg | 400 | 1 | 06/21/10 10:30 | 06/28/10 19:25 | 117-81-7 | |
| Fluoranthene | ND | ug/kg | 400 | 1 | 06/21/10 10:30 | 06/28/10 19:25 | 206-44-0 | |
| Fluorene | ND | ug/kg | 400 | 1 | 06/21/10 10:30 | 06/28/10 19:25 | 86-73-7 | |
| Hexachloro-1,3-butadiene | ND | ug/kg | 400 | 1 | 06/21/10 10:30 | 06/28/10 19:25 | 87-68-3 | |
| Hexachlorobenzene | ND | ug/kg | 400 | 1 | 06/21/10 10:30 | 06/28/10 19:25 | 118-74-1 | |
| Hexachlorocyclopentadiene | ND | ug/kg | 400 | 1 | 06/21/10 10:30 | 06/28/10 19:25 | 77-47-4 | |
| Hexachloroethane | ND | ug/kg | 400 | 1 | 06/21/10 10:30 | 06/28/10 19:25 | 67-72-1 | |
| Indeno(1,2,3-cd)pyrene | ND | ug/kg | 400 | 1 | 06/21/10 10:30 | 06/28/10 19:25 | 193-39-5 | |
| Isophorone | ND | ug/kg | 400 | 1 | 06/21/10 10:30 | 06/28/10 19:25 | 78-59-1 | |
| 1-Methylnaphthalene | ND | ug/kg | 400 | 1 | 06/21/10 10:30 | 06/28/10 19:25 | 90-12-0 | |
| 2-Methylnaphthalene | ND | ug/kg | 400 | 1 | 06/21/10 10:30 | 06/28/10 19:25 | 91-57-6 | |
| 2-Methylphenol(o-Cresol) | ND | ug/kg | 400 | 1 | 06/21/10 10:30 | 06/28/10 19:25 | 95-48-7 | |
| 3&4-Methylphenol(m&p Cresol) | ND | ug/kg | 400 | 1 | 06/21/10 10:30 | 06/28/10 19:25 | | |
| Naphthalene | ND | ug/kg | 400 | 1 | 06/21/10 10:30 | 06/28/10 19:25 | 91-20-3 | |
| 2-Nitroaniline | ND | ug/kg | 2000 | 1 | 06/21/10 10:30 | 06/28/10 19:25 | 88-74-4 | |
| 3-Nitroaniline | ND | ug/kg | 2000 | 1 | 06/21/10 10:30 | 06/28/10 19:25 | 99-09-2 | |
| 4-Nitroaniline | ND | ug/kg | 800 | 1 | 06/21/10 10:30 | 06/28/10 19:25 | 100-01-6 | |
| Nitrobenzene | ND | ug/kg | 400 | 1 | 06/21/10 10:30 | 06/28/10 19:25 | 98-95-3 | |
| 2-Nitrophenol | ND | ug/kg | 400 | 1 | 06/21/10 10:30 | 06/28/10 19:25 | 88-75-5 | |
| 4-Nitrophenol | ND | ug/kg | 2000 | 1 | 06/21/10 10:30 | 06/28/10 19:25 | 100-02-7 | |
| N-Nitrosodimethylamine | ND | ug/kg | 400 | 1 | 06/21/10 10:30 | 06/28/10 19:25 | 62-75-9 | |
| N-Nitroso-di-n-propylamine | ND | ug/kg | 400 | 1 | 06/21/10 10:30 | 06/28/10 19:25 | 621-64-7 | |
| N-Nitrosodiphenylamine | ND | ug/kg | 400 | 1 | 06/21/10 10:30 | 06/28/10 19:25 | 86-30-6 | |
| Pentachlorophenol | ND | ug/kg | 2000 | 1 | 06/21/10 10:30 | 06/28/10 19:25 | 87-86-5 | |
| Phenanthrene | ND | ug/kg | 400 | 1 | 06/21/10 10:30 | 06/28/10 19:25 | 85-01-8 | |
| Phenol | ND | ug/kg | 400 | 1 | 06/21/10 10:30 | 06/28/10 19:25 | 108-95-2 | |
| Pyrene | ND | ug/kg | 400 | 1 | 06/21/10 10:30 | 06/28/10 19:25 | 129-00-0 | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 400 | 1 | 06/21/10 10:30 | 06/28/10 19:25 | 120-82-1 | |
| 2,4,5-Trichlorophenol | ND | ug/kg | 400 | 1 | 06/21/10 10:30 | 06/28/10 19:25 | 95-95-4 | |
| 2,4,6-Trichlorophenol | ND | ug/kg | 400 | 1 | 06/21/10 10:30 | 06/28/10 19:25 | 88-06-2 | |
| Nitrobenzene-d5 (S) | 50 | % | 23-110 | 1 | 06/21/10 10:30 | 06/28/10 19:25 | 4165-60-0 | |
| 2-Fluorobiphenyl (S) | 57 | % | 30-110 | 1 | 06/21/10 10:30 | 06/28/10 19:25 | 321-60-8 | |
| Terphenyl-d14 (S) | 69 | % | 28-110 | 1 | 06/21/10 10:30 | 06/28/10 19:25 | 1718-51-0 | |
| Phenol-d6 (S) | 51 | % | 22-110 | 1 | 06/21/10 10:30 | 06/28/10 19:25 | 13127-88-3 | |
| 2-Fluorophenol (S) | 49 | % | 13-110 | 1 | 06/21/10 10:30 | 06/28/10 19:25 | 367-12-4 | |
| 2,4,6-Tribromophenol (S) | 75 | % | 27-110 | 1 | 06/21/10 10:30 | 06/28/10 19:25 | 118-79-6 | |
| **8260/5035A Volatile Organics** | Analytical Method: EPA 8260 | | | | | | | |
| Acetone | ND | ug/kg | 94.8 | 1 | | 06/23/10 19:22 | 67-64-1 | |
| Benzene | ND | ug/kg | 4.7 | 1 | | 06/23/10 19:22 | 71-43-2 | |
| Bromobenzene | ND | ug/kg | 4.7 | 1 | | 06/23/10 19:22 | 108-86-1 | |
| Bromochloromethane | ND | ug/kg | 4.7 | 1 | | 06/23/10 19:22 | 74-97-5 | |
| Bromodichloromethane | ND | ug/kg | 4.7 | 1 | | 06/23/10 19:22 | 75-27-4 | |



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# ANALYTICAL RESULTS

Project: Volvo : Asheville
Pace Project No.: 9271695

**Sample: PSS3 (10-12)** **Lab ID: 9271695011** Collected: 06/16/10 14:50 Received: 06/17/10 08:00 Matrix: Solid

***Results reported on a "dry-weight" basis***

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **8260/5035A Volatile Organics** | Analytical Method: EPA 8260 | | | | | | | |
| Bromoform | ND | ug/kg | 4.7 | 1 | | 06/23/10 19:22 | 75-25-2 | |
| Bromomethane | ND | ug/kg | 9.5 | 1 | | 06/23/10 19:22 | 74-83-9 | |
| 2-Butanone (MEK) | ND | ug/kg | 94.8 | 1 | | 06/23/10 19:22 | 78-93-3 | |
| n-Butylbenzene | ND | ug/kg | 4.7 | 1 | | 06/23/10 19:22 | 104-51-8 | |
| sec-Butylbenzene | ND | ug/kg | 4.7 | 1 | | 06/23/10 19:22 | 135-98-8 | |
| tert-Butylbenzene | ND | ug/kg | 4.7 | 1 | | 06/23/10 19:22 | 98-06-6 | |
| Carbon tetrachloride | ND | ug/kg | 4.7 | 1 | | 06/23/10 19:22 | 56-23-5 | |
| Chlorobenzene | ND | ug/kg | 4.7 | 1 | | 06/23/10 19:22 | 108-90-7 | |
| Chloroethane | ND | ug/kg | 9.5 | 1 | | 06/23/10 19:22 | 75-00-3 | |
| Chloroform | ND | ug/kg | 4.7 | 1 | | 06/23/10 19:22 | 67-66-3 | |
| Chloromethane | ND | ug/kg | 9.5 | 1 | | 06/23/10 19:22 | 74-87-3 | |
| 2-Chlorotoluene | ND | ug/kg | 4.7 | 1 | | 06/23/10 19:22 | 95-49-8 | |
| 4-Chlorotoluene | ND | ug/kg | 4.7 | 1 | | 06/23/10 19:22 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | ND | ug/kg | 4.7 | 1 | | 06/23/10 19:22 | 96-12-8 | |
| Dibromochloromethane | ND | ug/kg | 4.7 | 1 | | 06/23/10 19:22 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | ND | ug/kg | 4.7 | 1 | | 06/23/10 19:22 | 106-93-4 | |
| Dibromomethane | ND | ug/kg | 4.7 | 1 | | 06/23/10 19:22 | 74-95-3 | |
| 1,2-Dichlorobenzene | ND | ug/kg | 4.7 | 1 | | 06/23/10 19:22 | 95-50-1 | |
| 1,3-Dichlorobenzene | ND | ug/kg | 4.7 | 1 | | 06/23/10 19:22 | 541-73-1 | |
| 1,4-Dichlorobenzene | ND | ug/kg | 4.7 | 1 | | 06/23/10 19:22 | 106-46-7 | |
| Dichlorodifluoromethane | ND | ug/kg | 9.5 | 1 | | 06/23/10 19:22 | 75-71-8 | |
| 1,1-Dichloroethane | ND | ug/kg | 4.7 | 1 | | 06/23/10 19:22 | 75-34-3 | |
| 1,2-Dichloroethane | ND | ug/kg | 4.7 | 1 | | 06/23/10 19:22 | 107-06-2 | |
| 1,1-Dichloroethene | ND | ug/kg | 4.7 | 1 | | 06/23/10 19:22 | 75-35-4 | |
| cis-1,2-Dichloroethene | ND | ug/kg | 4.7 | 1 | | 06/23/10 19:22 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/kg | 4.7 | 1 | | 06/23/10 19:22 | 156-60-5 | |
| 1,2-Dichloropropane | ND | ug/kg | 4.7 | 1 | | 06/23/10 19:22 | 78-87-5 | |
| 1,3-Dichloropropane | ND | ug/kg | 4.7 | 1 | | 06/23/10 19:22 | 142-28-9 | |
| 2,2-Dichloropropane | ND | ug/kg | 4.7 | 1 | | 06/23/10 19:22 | 594-20-7 | |
| 1,1-Dichloropropene | ND | ug/kg | 4.7 | 1 | | 06/23/10 19:22 | 563-58-6 | |
| cis-1,3-Dichloropropene | ND | ug/kg | 4.7 | 1 | | 06/23/10 19:22 | 10061-01-5 | |
| trans-1,3-Dichloropropene | ND | ug/kg | 4.7 | 1 | | 06/23/10 19:22 | 10061-02-6 | |
| Diisopropyl ether | ND | ug/kg | 4.7 | 1 | | 06/23/10 19:22 | 108-20-3 | |
| Ethylbenzene | ND | ug/kg | 4.7 | 1 | | 06/23/10 19:22 | 100-41-4 | |
| Hexachloro-1,3-butadiene | ND | ug/kg | 4.7 | 1 | | 06/23/10 19:22 | 87-68-3 | |
| 2-Hexanone | ND | ug/kg | 47.4 | 1 | | 06/23/10 19:22 | 591-78-6 | |
| Isopropylbenzene (Cumene) | ND | ug/kg | 4.7 | 1 | | 06/23/10 19:22 | 98-82-8 | |
| p-Isopropyltoluene | ND | ug/kg | 4.7 | 1 | | 06/23/10 19:22 | 99-87-6 | |
| Methylene Chloride | **25.8** | ug/kg | 19.0 | 1 | | 06/23/10 19:22 | 75-09-2 | C9 |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/kg | 47.4 | 1 | | 06/23/10 19:22 | 108-10-1 | |
| Methyl-tert-butyl ether | ND | ug/kg | 4.7 | 1 | | 06/23/10 19:22 | 1634-04-4 | |
| Naphthalene | ND | ug/kg | 4.7 | 1 | | 06/23/10 19:22 | 91-20-3 | |
| n-Propylbenzene | ND | ug/kg | 4.7 | 1 | | 06/23/10 19:22 | 103-65-1 | |
| Styrene | ND | ug/kg | 4.7 | 1 | | 06/23/10 19:22 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | ND | ug/kg | 4.7 | 1 | | 06/23/10 19:22 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/kg | 4.7 | 1 | | 06/23/10 19:22 | 79-34-5 | |



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# ANALYTICAL RESULTS

Project: Volvo : Asheville
Pace Project No.: 9271695

**Sample: PSS3 (10-12)** **Lab ID: 9271695011** Collected: 06/16/10 14:50 Received: 06/17/10 08:00 Matrix: Solid

***Results reported on a "dry-weight" basis***

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **8260/5035A Volatile Organics** | Analytical Method: EPA 8260 | | | | | | | |
| Tetrachloroethene | ND | ug/kg | 4.7 | 1 | | 06/23/10 19:22 | 127-18-4 | |
| Toluene | ND | ug/kg | 4.7 | 1 | | 06/23/10 19:22 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | ND | ug/kg | 4.7 | 1 | | 06/23/10 19:22 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | ND | ug/kg | 4.7 | 1 | | 06/23/10 19:22 | 120-82-1 | |
| 1,1,1-Trichloroethane | ND | ug/kg | 4.7 | 1 | | 06/23/10 19:22 | 71-55-6 | |
| 1,1,2-Trichloroethane | ND | ug/kg | 4.7 | 1 | | 06/23/10 19:22 | 79-00-5 | |
| Trichloroethene | ND | ug/kg | 4.7 | 1 | | 06/23/10 19:22 | 79-01-6 | |
| Trichlorofluoromethane | ND | ug/kg | 4.7 | 1 | | 06/23/10 19:22 | 75-69-4 | |
| 1,2,3-Trichloropropane | ND | ug/kg | 4.7 | 1 | | 06/23/10 19:22 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | ND | ug/kg | 4.7 | 1 | | 06/23/10 19:22 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | ND | ug/kg | 4.7 | 1 | | 06/23/10 19:22 | 108-67-8 | |
| Vinyl acetate | ND | ug/kg | 47.4 | 1 | | 06/23/10 19:22 | 108-05-4 | |
| Vinyl chloride | ND | ug/kg | 9.5 | 1 | | 06/23/10 19:22 | 75-01-4 | |
| Xylene (Total) | ND | ug/kg | 9.5 | 1 | | 06/23/10 19:22 | 1330-20-7 | |
| m&p-Xylene | ND | ug/kg | 9.5 | 1 | | 06/23/10 19:22 | 179601-23-1 | |
| o-Xylene | ND | ug/kg | 4.7 | 1 | | 06/23/10 19:22 | 95-47-6 | |
| Dibromofluoromethane (S) | 104 | % | 70-130 | 1 | | 06/23/10 19:22 | 1868-53-7 | |
| Toluene-d8 (S) | 99 | % | 70-130 | 1 | | 06/23/10 19:22 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 93 | % | 70-130 | 1 | | 06/23/10 19:22 | 460-00-4 | |
| 1,2-Dichloroethane-d4 (S) | 105 | % | 70-132 | 1 | | 06/23/10 19:22 | 17060-07-0 | |
| **Percent Moisture** | Analytical Method: ASTM D2974-87 | | | | | | | |
| Percent Moisture | **17.5** | % | 0.10 | 1 | | 06/18/10 13:22 | | |
| **Trivalent Chromium Calculation** | Analytical Method: Trivalent Chromium Calculation | | | | | | | |
| Chromium, Trivalent | **25.5** | mg/kg | 5.0 | 1 | | 07/09/10 09:19 | 16065-83-1 | |
| **7196 Chromium, Hexavalent** | Analytical Method: EPA 7196 Preparation Method: EPA 7196 | | | | | | | |
| Chromium, Hexavalent | ND | mg/kg | 5.3 | 1 | 07/08/10 14:00 | 07/08/10 15:05 | 18540-29-9 | |



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# ANALYTICAL RESULTS

Project: Volvo : Asheville
Pace Project No.: 9271695

**Sample: MW1** **Lab ID: 9271695012** Collected: 06/16/10 14:40 Received: 06/17/10 08:00 Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **MADEP EPH NC Water** | Analytical Method: MADEP EPH Preparation Method: MADEP EPH | | | | | | | |
| Aliphatic (C09-C18) | ND | ug/L | 105 | 1 | 06/21/10 14:00 | 06/23/10 19:01 | | |
| Aliphatic (C19-C36) | **223** | ug/L | 105 | 1 | 06/21/10 14:00 | 06/23/10 19:01 | | |
| Aromatic (C11-C22) | ND | ug/L | 105 | 1 | 06/21/10 14:00 | 06/23/10 19:01 | | |
| Nonatriacontane (S) | 82 | % | 40-140 | 1 | 06/21/10 14:00 | 06/23/10 19:01 | 7194-86-7 | |
| o-Terphenyl (S) | 86 | % | 40-140 | 1 | 06/21/10 14:00 | 06/23/10 19:01 | 84-15-1 | |
| 2-Fluorobiphenyl (S) | 111 | % | 40-140 | 1 | 06/21/10 14:00 | 06/23/10 19:01 | 321-60-8 | |
| 2-Bromonaphthalene (S) | 127 | % | 40-140 | 1 | 06/21/10 14:00 | 06/23/10 19:01 | 580-13-2 | |
| **VPH NC Water** | Analytical Method: MADEP VPH | | | | | | | |
| Aliphatic (C05-C08) | ND | ug/L | 100 | 1 | | 06/24/10 03:35 | | |
| Aliphatic (C09-C12) | ND | ug/L | 100 | 1 | | 06/24/10 03:35 | | |
| Aromatic (C09-C10) | ND | ug/L | 100 | 1 | | 06/24/10 03:35 | | |
| 2,5-Dibromotoluene (PID)(S) | 132 | % | 70-130 | 1 | | 06/24/10 03:35 | | S3 |
| 2,5-Dibromotoluene (FID)(S) | 133 | % | 70-130 | 1 | | 06/24/10 03:35 | | S3 |
| **6010 MET ICP, 3030C** | Analytical Method: EPA 6010 Preparation Method: SM 3030C | | | | | | | |
| Chromium | ND | ug/L | 5.0 | 1 | 06/18/10 10:00 | 06/24/10 21:49 | 7440-47-3 | |
| Lead | **5.1** | ug/L | 5.0 | 1 | 06/18/10 10:00 | 06/24/10 21:49 | 7439-92-1 | |
| **625 MSSV** | Analytical Method: EPA 625 Preparation Method: EPA 625 | | | | | | | |
| Acenaphthene | ND | ug/L | 5.0 | 1 | 06/21/10 08:10 | 06/22/10 22:50 | 83-32-9 | |
| Acenaphthylene | ND | ug/L | 5.0 | 1 | 06/21/10 08:10 | 06/22/10 22:50 | 208-96-8 | |
| Anthracene | ND | ug/L | 5.0 | 1 | 06/21/10 08:10 | 06/22/10 22:50 | 120-12-7 | |
| Benzo(a)anthracene | ND | ug/L | 5.0 | 1 | 06/21/10 08:10 | 06/22/10 22:50 | 56-55-3 | |
| Benzo(a)pyrene | ND | ug/L | 5.0 | 1 | 06/21/10 08:10 | 06/22/10 22:50 | 50-32-8 | |
| Benzo(b)fluoranthene | ND | ug/L | 5.0 | 1 | 06/21/10 08:10 | 06/22/10 22:50 | 205-99-2 | |
| Benzo(g,h,i)perylene | ND | ug/L | 5.0 | 1 | 06/21/10 08:10 | 06/22/10 22:50 | 191-24-2 | |
| Benzo(k)fluoranthene | ND | ug/L | 5.0 | 1 | 06/21/10 08:10 | 06/22/10 22:50 | 207-08-9 | |
| 4-Bromophenylphenyl ether | ND | ug/L | 5.0 | 1 | 06/21/10 08:10 | 06/22/10 22:50 | 101-55-3 | |
| Butylbenzylphthalate | ND | ug/L | 5.0 | 1 | 06/21/10 08:10 | 06/22/10 22:50 | 85-68-7 | |
| 4-Chloro-3-methylphenol | ND | ug/L | 5.0 | 1 | 06/21/10 08:10 | 06/22/10 22:50 | 59-50-7 | |
| bis(2-Chloroethoxy)methane | ND | ug/L | 10.0 | 1 | 06/21/10 08:10 | 06/22/10 22:50 | 111-91-1 | |
| bis(2-Chloroethyl) ether | ND | ug/L | 5.0 | 1 | 06/21/10 08:10 | 06/22/10 22:50 | 111-44-4 | |
| bis(2-Chloroisopropyl) ether | ND | ug/L | 5.0 | 1 | 06/21/10 08:10 | 06/22/10 22:50 | 108-60-1 | |
| 2-Chloronaphthalene | ND | ug/L | 5.0 | 1 | 06/21/10 08:10 | 06/22/10 22:50 | 91-58-7 | |
| 2-Chlorophenol | ND | ug/L | 5.0 | 1 | 06/21/10 08:10 | 06/22/10 22:50 | 95-57-8 | |
| 4-Chlorophenylphenyl ether | ND | ug/L | 5.0 | 1 | 06/21/10 08:10 | 06/22/10 22:50 | 7005-72-3 | |
| Chrysene | ND | ug/L | 5.0 | 1 | 06/21/10 08:10 | 06/22/10 22:50 | 218-01-9 | |
| Dibenz(a,h)anthracene | ND | ug/L | 5.0 | 1 | 06/21/10 08:10 | 06/22/10 22:50 | 53-70-3 | |
| 3,3'-Dichlorobenzidine | ND | ug/L | 25.0 | 1 | 06/21/10 08:10 | 06/22/10 22:50 | 91-94-1 | |
| 2,4-Dichlorophenol | ND | ug/L | 5.0 | 1 | 06/21/10 08:10 | 06/22/10 22:50 | 120-83-2 | |
| Diethylphthalate | ND | ug/L | 5.0 | 1 | 06/21/10 08:10 | 06/22/10 22:50 | 84-66-2 | |
| 2,4-Dimethylphenol | ND | ug/L | 10.0 | 1 | 06/21/10 08:10 | 06/22/10 22:50 | 105-67-9 | |
| Dimethylphthalate | ND | ug/L | 5.0 | 1 | 06/21/10 08:10 | 06/22/10 22:50 | 131-11-3 | |
| Di-n-butylphthalate | ND | ug/L | 5.0 | 1 | 06/21/10 08:10 | 06/22/10 22:50 | 84-74-2 | |
| 4,6-Dinitro-2-methylphenol | ND | ug/L | 20.0 | 1 | 06/21/10 08:10 | 06/22/10 22:50 | 534-52-1 | |



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# ANALYTICAL RESULTS

Project: Volvo : Asheville
Pace Project No.: 9271695

**Sample: MW1** **Lab ID: 9271695012** Collected: 06/16/10 14:40 Received: 06/17/10 08:00 Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **625 MSSV** | Analytical Method: EPA 625 Preparation Method: EPA 625 | | | | | | | |
| 2,4-Dinitrophenol | ND | ug/L | 50.0 | 1 | 06/21/10 08:10 | 06/22/10 22:50 | 51-28-5 | |
| 2,4-Dinitrotoluene | ND | ug/L | 5.0 | 1 | 06/21/10 08:10 | 06/22/10 22:50 | 121-14-2 | |
| 2,6-Dinitrotoluene | ND | ug/L | 5.0 | 1 | 06/21/10 08:10 | 06/22/10 22:50 | 606-20-2 | |
| Di-n-octylphthalate | ND | ug/L | 5.0 | 1 | 06/21/10 08:10 | 06/22/10 22:50 | 117-84-0 | |
| bis(2-Ethylhexyl)phthalate | ND | ug/L | 5.0 | 1 | 06/21/10 08:10 | 06/22/10 22:50 | 117-81-7 | |
| Fluoranthene | ND | ug/L | 5.0 | 1 | 06/21/10 08:10 | 06/22/10 22:50 | 206-44-0 | |
| Fluorene | ND | ug/L | 5.0 | 1 | 06/21/10 08:10 | 06/22/10 22:50 | 86-73-7 | |
| Hexachloro-1,3-butadiene | ND | ug/L | 5.0 | 1 | 06/21/10 08:10 | 06/22/10 22:50 | 87-68-3 | |
| Hexachlorobenzene | ND | ug/L | 5.0 | 1 | 06/21/10 08:10 | 06/22/10 22:50 | 118-74-1 | |
| Hexachlorocyclopentadiene | ND | ug/L | 10.0 | 1 | 06/21/10 08:10 | 06/22/10 22:50 | 77-47-4 | |
| Hexachloroethane | ND | ug/L | 5.0 | 1 | 06/21/10 08:10 | 06/22/10 22:50 | 67-72-1 | |
| Indeno(1,2,3-cd)pyrene | ND | ug/L | 5.0 | 1 | 06/21/10 08:10 | 06/22/10 22:50 | 193-39-5 | |
| Isophorone | ND | ug/L | 10.0 | 1 | 06/21/10 08:10 | 06/22/10 22:50 | 78-59-1 | |
| Naphthalene | ND | ug/L | 5.0 | 1 | 06/21/10 08:10 | 06/22/10 22:50 | 91-20-3 | |
| Nitrobenzene | ND | ug/L | 5.0 | 1 | 06/21/10 08:10 | 06/22/10 22:50 | 98-95-3 | |
| 2-Nitrophenol | ND | ug/L | 5.0 | 1 | 06/21/10 08:10 | 06/22/10 22:50 | 88-75-5 | |
| 4-Nitrophenol | ND | ug/L | 50.0 | 1 | 06/21/10 08:10 | 06/22/10 22:50 | 100-02-7 | |
| N-Nitrosodimethylamine | ND | ug/L | 5.0 | 1 | 06/21/10 08:10 | 06/22/10 22:50 | 62-75-9 | |
| N-Nitroso-di-n-propylamine | ND | ug/L | 5.0 | 1 | 06/21/10 08:10 | 06/22/10 22:50 | 621-64-7 | |
| N-Nitrosodiphenylamine | ND | ug/L | 10.0 | 1 | 06/21/10 08:10 | 06/22/10 22:50 | 86-30-6 | |
| Pentachlorophenol | ND | ug/L | 25.0 | 1 | 06/21/10 08:10 | 06/22/10 22:50 | 87-86-5 | |
| Phenanthrene | ND | ug/L | 5.0 | 1 | 06/21/10 08:10 | 06/22/10 22:50 | 85-01-8 | |
| Phenol | ND | ug/L | 5.0 | 1 | 06/21/10 08:10 | 06/22/10 22:50 | 108-95-2 | |
| Pyrene | ND | ug/L | 5.0 | 1 | 06/21/10 08:10 | 06/22/10 22:50 | 129-00-0 | |
| 1,2,4-Trichlorobenzene | ND | ug/L | 5.0 | 1 | 06/21/10 08:10 | 06/22/10 22:50 | 120-82-1 | |
| 2,4,6-Trichlorophenol | ND | ug/L | 10.0 | 1 | 06/21/10 08:10 | 06/22/10 22:50 | 88-06-2 | |
| Nitrobenzene-d5 (S) | 24 | % | 10-120 | 1 | 06/21/10 08:10 | 06/22/10 22:50 | 4165-60-0 | |
| 2-Fluorobiphenyl (S) | 33 | % | 15-120 | 1 | 06/21/10 08:10 | 06/22/10 22:50 | 321-60-8 | |
| Terphenyl-d14 (S) | 55 | % | 11-131 | 1 | 06/21/10 08:10 | 06/22/10 22:50 | 1718-51-0 | |
| Phenol-d6 (S) | 12 | % | 10-120 | 1 | 06/21/10 08:10 | 06/22/10 22:50 | 13127-88-3 | |
| 2-Fluorophenol (S) | 16 | % | 10-120 | 1 | 06/21/10 08:10 | 06/22/10 22:50 | 367-12-4 | |
| 2,4,6-Tribromophenol (S) | 50 | % | 10-137 | 1 | 06/21/10 08:10 | 06/22/10 22:50 | 118-79-6 | |
| **6200B MSV** | Analytical Method: SM 6200B | | | | | | | |
| Benzene | ND | ug/L | 0.50 | 1 | | 06/28/10 15:11 | 71-43-2 | |
| Bromobenzene | ND | ug/L | 0.50 | 1 | | 06/28/10 15:11 | 108-86-1 | |
| Bromochloromethane | ND | ug/L | 0.50 | 1 | | 06/28/10 15:11 | 74-97-5 | |
| Bromodichloromethane | ND | ug/L | 0.50 | 1 | | 06/28/10 15:11 | 75-27-4 | |
| Bromoform | ND | ug/L | 0.50 | 1 | | 06/28/10 15:11 | 75-25-2 | |
| Bromomethane | ND | ug/L | 5.0 | 1 | | 06/28/10 15:11 | 74-83-9 | |
| n-Butylbenzene | ND | ug/L | 0.50 | 1 | | 06/28/10 15:11 | 104-51-8 | |
| sec-Butylbenzene | ND | ug/L | 0.50 | 1 | | 06/28/10 15:11 | 135-98-8 | |
| tert-Butylbenzene | ND | ug/L | 0.50 | 1 | | 06/28/10 15:11 | 98-06-6 | |
| Carbon tetrachloride | ND | ug/L | 0.50 | 1 | | 06/28/10 15:11 | 56-23-5 | |
| Chlorobenzene | ND | ug/L | 0.50 | 1 | | 06/28/10 15:11 | 108-90-7 | |
| Chloroethane | ND | ug/L | 1.0 | 1 | | 06/28/10 15:11 | 75-00-3 | |
| Chloroform | ND | ug/L | 0.50 | 1 | | 06/28/10 15:11 | 67-66-3 | |



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# ANALYTICAL RESULTS

Project: Volvo : Asheville
Pace Project No.: 9271695

**Sample: MW1** **Lab ID: 9271695012** Collected: 06/16/10 14:40 Received: 06/17/10 08:00 Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **6200B MSV** | Analytical Method: SM 6200B | | | | | | | |
| Chloromethane | ND | ug/L | 1.0 | 1 | | 06/28/10 15:11 | 74-87-3 | |
| 2-Chlorotoluene | **1.0** | ug/L | 0.50 | 1 | | 06/28/10 15:11 | 95-49-8 | |
| 4-Chlorotoluene | ND | ug/L | 0.50 | 1 | | 06/28/10 15:11 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | ND | ug/L | 1.0 | 1 | | 06/28/10 15:11 | 96-12-8 | |
| Dibromochloromethane | ND | ug/L | 0.50 | 1 | | 06/28/10 15:11 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 0.50 | 1 | | 06/28/10 15:11 | 106-93-4 | |
| Dibromomethane | ND | ug/L | 0.50 | 1 | | 06/28/10 15:11 | 74-95-3 | |
| 1,2-Dichlorobenzene | ND | ug/L | 0.50 | 1 | | 06/28/10 15:11 | 95-50-1 | |
| 1,3-Dichlorobenzene | ND | ug/L | 0.50 | 1 | | 06/28/10 15:11 | 541-73-1 | |
| 1,4-Dichlorobenzene | ND | ug/L | 0.50 | 1 | | 06/28/10 15:11 | 106-46-7 | |
| Dichlorodifluoromethane | ND | ug/L | 0.50 | 1 | | 06/28/10 15:11 | 75-71-8 | |
| 1,1-Dichloroethane | ND | ug/L | 0.50 | 1 | | 06/28/10 15:11 | 75-34-3 | |
| 1,2-Dichloroethane | ND | ug/L | 0.50 | 1 | | 06/28/10 15:11 | 107-06-2 | |
| 1,1-Dichloroethene | ND | ug/L | 0.50 | 1 | | 06/28/10 15:11 | 75-35-4 | |
| cis-1,2-Dichloroethene | ND | ug/L | 0.50 | 1 | | 06/28/10 15:11 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/L | 0.50 | 1 | | 06/28/10 15:11 | 156-60-5 | |
| 1,2-Dichloropropane | ND | ug/L | 0.50 | 1 | | 06/28/10 15:11 | 78-87-5 | |
| 1,3-Dichloropropane | ND | ug/L | 0.50 | 1 | | 06/28/10 15:11 | 142-28-9 | |
| 2,2-Dichloropropane | ND | ug/L | 0.50 | 1 | | 06/28/10 15:11 | 594-20-7 | |
| 1,1-Dichloropropene | ND | ug/L | 0.50 | 1 | | 06/28/10 15:11 | 563-58-6 | |
| cis-1,3-Dichloropropene | ND | ug/L | 0.50 | 1 | | 06/28/10 15:11 | 10061-01-5 | |
| trans-1,3-Dichloropropene | ND | ug/L | 0.50 | 1 | | 06/28/10 15:11 | 10061-02-6 | |
| Diisopropyl ether | ND | ug/L | 0.50 | 1 | | 06/28/10 15:11 | 108-20-3 | |
| Ethylbenzene | ND | ug/L | 0.50 | 1 | | 06/28/10 15:11 | 100-41-4 | |
| Hexachloro-1,3-butadiene | ND | ug/L | 2.0 | 1 | | 06/28/10 15:11 | 87-68-3 | |
| Isopropylbenzene (Cumene) | ND | ug/L | 0.50 | 1 | | 06/28/10 15:11 | 98-82-8 | |
| Methylene Chloride | ND | ug/L | 2.0 | 1 | | 06/28/10 15:11 | 75-09-2 | |
| Methyl-tert-butyl ether | ND | ug/L | 0.50 | 1 | | 06/28/10 15:11 | 1634-04-4 | |
| Naphthalene | ND | ug/L | 2.0 | 1 | | 06/28/10 15:11 | 91-20-3 | |
| n-Propylbenzene | ND | ug/L | 0.50 | 1 | | 06/28/10 15:11 | 103-65-1 | |
| Styrene | ND | ug/L | 0.50 | 1 | | 06/28/10 15:11 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | ND | ug/L | 0.50 | 1 | | 06/28/10 15:11 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 0.50 | 1 | | 06/28/10 15:11 | 79-34-5 | |
| Tetrachloroethene | ND | ug/L | 0.50 | 1 | | 06/28/10 15:11 | 127-18-4 | |
| Toluene | **0.83** | ug/L | 0.50 | 1 | | 06/28/10 15:11 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | ND | ug/L | 2.0 | 1 | | 06/28/10 15:11 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | ND | ug/L | 2.0 | 1 | | 06/28/10 15:11 | 120-82-1 | |
| 1,1,1-Trichloroethane | ND | ug/L | 0.50 | 1 | | 06/28/10 15:11 | 71-55-6 | |
| 1,1,2-Trichloroethane | ND | ug/L | 0.50 | 1 | | 06/28/10 15:11 | 79-00-5 | |
| Trichloroethene | ND | ug/L | 0.50 | 1 | | 06/28/10 15:11 | 79-01-6 | |
| Trichlorofluoromethane | ND | ug/L | 1.0 | 1 | | 06/28/10 15:11 | 75-69-4 | |
| 1,2,3-Trichloropropane | ND | ug/L | 0.50 | 1 | | 06/28/10 15:11 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | ND | ug/L | 0.50 | 1 | | 06/28/10 15:11 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | ND | ug/L | 0.50 | 1 | | 06/28/10 15:11 | 108-67-8 | |
| Vinyl chloride | ND | ug/L | 1.0 | 1 | | 06/28/10 15:11 | 75-01-4 | |
| m&p-Xylene | ND | ug/L | 1.0 | 1 | | 06/28/10 15:11 | 179601-23-1 | |
| o-Xylene | **0.60** | ug/L | 0.50 | 1 | | 06/28/10 15:11 | 95-47-6 | |



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# ANALYTICAL RESULTS

Project: Volvo : Asheville
Pace Project No.: 9271695

**Sample: MW1** **Lab ID: 9271695012** Collected: 06/16/10 14:40 Received: 06/17/10 08:00 Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **6200B MSV** | Analytical Method: SM 6200B | | | | | | | |
| 1,2-Dichloroethane-d4 (S) | 89 | % | 70-130 | 1 | | 06/28/10 15:11 | 17060-07-0 | |
| Dibromofluoromethane (S) | 92 | % | 70-130 | 1 | | 06/28/10 15:11 | 1868-53-7 | |
| 4-Bromofluorobenzene (S) | 110 | % | 70-130 | 1 | | 06/28/10 15:11 | 460-00-4 | |
| Toluene-d8 (S) | 95 | % | 70-130 | 1 | | 06/28/10 15:11 | 2037-26-5 | |



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# ANALYTICAL RESULTS

Project: Volvo : Asheville
Pace Project No.: 9271695

**Sample: EQR-GP** **Lab ID: 9271695013** Collected: 06/16/10 15:50 Received: 06/17/10 08:00 Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **8015 GCS THC-Diesel for SP** | Analytical Method: EPA 8015 Modified Preparation Method: EPA 3535 | | | | | | | |
| Diesel Components | ND | mg/L | 0.71 | 1 | 06/21/10 13:00 | 06/22/10 04:09 | 68334-30-5 | |
| n-Pentacosane (S) | 67 | % | 48-110 | 1 | 06/21/10 13:00 | 06/22/10 04:09 | 629-99-2 | |
| **8081 GCS Pesticides** | Analytical Method: EPA 8081 | | | | | | | |
| Aldrin | ND | ug/L | 0.013 | 1 | 06/21/10 16:10 | 06/25/10 22:34 | 309-00-2 | |
| alpha-BHC | ND | ug/L | 0.013 | 1 | 06/21/10 16:10 | 06/25/10 22:34 | 319-84-6 | |
| beta-BHC | ND | ug/L | 0.013 | 1 | 06/21/10 16:10 | 06/25/10 22:34 | 319-85-7 | |
| delta-BHC | ND | ug/L | 0.013 | 1 | 06/21/10 16:10 | 06/25/10 22:34 | 319-86-8 | |
| gamma-BHC (Lindane) | ND | ug/L | 0.013 | 1 | 06/21/10 16:10 | 06/25/10 22:34 | 58-89-9 | |
| Chlordane (Technical) | ND | ug/L | 0.66 | 1 | 06/21/10 16:10 | 06/25/10 22:34 | 57-74-9 | |
| 4,4'-DDD | ND | ug/L | 0.013 | 1 | 06/21/10 16:10 | 06/25/10 22:34 | 72-54-8 | L3 |
| 4,4'-DDE | ND | ug/L | 0.013 | 1 | 06/21/10 16:10 | 06/25/10 22:34 | 72-55-9 | |
| 4,4'-DDT | ND | ug/L | 0.013 | 1 | 06/21/10 16:10 | 06/25/10 22:34 | 50-29-3 | |
| Dieldrin | ND | ug/L | 0.013 | 1 | 06/21/10 16:10 | 06/25/10 22:34 | 60-57-1 | |
| Endosulfan I | ND | ug/L | 0.013 | 1 | 06/21/10 16:10 | 06/25/10 22:34 | 959-98-8 | |
| Endosulfan II | ND | ug/L | 0.013 | 1 | 06/21/10 16:10 | 06/25/10 22:34 | 33213-65-9 | |
| Endosulfan sulfate | ND | ug/L | 0.013 | 1 | 06/21/10 16:10 | 06/25/10 22:34 | 1031-07-8 | |
| Endrin | ND | ug/L | 0.013 | 1 | 06/21/10 16:10 | 06/25/10 22:34 | 72-20-8 | |
| Endrin aldehyde | ND | ug/L | 0.013 | 1 | 06/21/10 16:10 | 06/25/10 22:34 | 7421-93-4 | |
| Heptachlor | ND | ug/L | 0.013 | 1 | 06/21/10 16:10 | 06/25/10 22:34 | 76-44-8 | |
| Heptachlor epoxide | ND | ug/L | 0.013 | 1 | 06/21/10 16:10 | 06/25/10 22:34 | 1024-57-3 | |
| Methoxychlor | ND | ug/L | 0.013 | 1 | 06/21/10 16:10 | 06/25/10 22:34 | 72-43-5 | |
| Toxaphene | ND | ug/L | 0.66 | 1 | 06/21/10 16:10 | 06/25/10 22:34 | 8001-35-2 | |
| Tetrachloro-m-xylene (S) | 99 | % | 66.5-120.3 | 1 | 06/21/10 16:10 | 06/25/10 22:34 | 877-09-8 | |
| Decachlorobiphenyl (S) | 46 | % | 41.7-109.1 | 1 | 06/21/10 16:10 | 06/25/10 22:34 | 2051-24-3 | |
| **8082 GCS PCB** | Analytical Method: EPA 8082 Preparation Method: EPA 3535 | | | | | | | |
| PCB-1016 (Aroclor 1016) | ND | ug/L | 0.67 | 1 | 06/23/10 09:00 | 06/25/10 04:38 | 12674-11-2 | |
| PCB-1221 (Aroclor 1221) | ND | ug/L | 0.67 | 1 | 06/23/10 09:00 | 06/25/10 04:38 | 11104-28-2 | |
| PCB-1232 (Aroclor 1232) | ND | ug/L | 0.67 | 1 | 06/23/10 09:00 | 06/25/10 04:38 | 11141-16-5 | |
| PCB-1242 (Aroclor 1242) | ND | ug/L | 0.67 | 1 | 06/23/10 09:00 | 06/25/10 04:38 | 53469-21-9 | |
| PCB-1248 (Aroclor 1248) | ND | ug/L | 0.67 | 1 | 06/23/10 09:00 | 06/25/10 04:38 | 12672-29-6 | |
| PCB-1254 (Aroclor 1254) | ND | ug/L | 0.67 | 1 | 06/23/10 09:00 | 06/25/10 04:38 | 11097-69-1 | |
| PCB-1260 (Aroclor 1260) | ND | ug/L | 0.67 | 1 | 06/23/10 09:00 | 06/25/10 04:38 | 11096-82-5 | |
| Decachlorobiphenyl (S) | 65 | % | 10-132 | 1 | 06/23/10 09:00 | 06/25/10 04:38 | 2051-24-3 | |
| **MADEP EPH NC Water** | Analytical Method: MADEP EPH Preparation Method: MADEP EPH | | | | | | | |
| Aliphatic (C09-C18) | ND | ug/L | 154 | 1 | 06/21/10 14:00 | 06/22/10 15:35 | | |
| Aliphatic (C19-C36) | ND | ug/L | 154 | 1 | 06/21/10 14:00 | 06/22/10 15:35 | | |
| Aromatic (C11-C22) | ND | ug/L | 154 | 1 | 06/21/10 14:00 | 06/22/10 15:35 | | |
| Nonatriacontane (S) | 98 | % | 40-140 | 1 | 06/21/10 14:00 | 06/22/10 15:35 | 7194-86-7 | |
| o-Terphenyl (S) | 80 | % | 40-140 | 1 | 06/21/10 14:00 | 06/22/10 15:35 | 84-15-1 | |
| **Gasoline Range Organics** | Analytical Method: EPA 5030/8015 Mod. | | | | | | | |
| Gasoline Range Organics | ND | mg/L | 0.080 | 1 | | 06/18/10 22:02 | 8006-61-9 | |
| 4-Bromofluorobenzene (S) | 104 | % | 70-145 | 1 | | 06/18/10 22:02 | 460-00-4 | |



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# ANALYTICAL RESULTS

Project: Volvo : Asheville
Pace Project No.: 9271695

**Sample: EQR-GP** **Lab ID: 9271695013** Collected: 06/16/10 15:50 Received: 06/17/10 08:00 Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **VPH NC Water** | Analytical Method: MADEP VPH | | | | | | | |
| Aliphatic (C05-C08) | ND | ug/L | 100 | 1 | | 06/24/10 04:00 | | |
| Aliphatic (C09-C12) | ND | ug/L | 100 | 1 | | 06/24/10 04:00 | | |
| Aromatic (C09-C10) | ND | ug/L | 100 | 1 | | 06/24/10 04:00 | | |
| 2,5-Dibromotoluene (PID)(S) | 124 | % | 70-130 | 1 | | 06/24/10 04:00 | | |
| 2,5-Dibromotoluene (FID)(S) | 127 | % | 70-130 | 1 | | 06/24/10 04:00 | | |
| **6010 MET ICP, 3030C** | Analytical Method: EPA 6010 Preparation Method: SM 3030C | | | | | | | |
| Arsenic | ND | ug/L | 5.0 | 1 | 06/18/10 10:00 | 06/24/10 22:06 | 7440-38-2 | |
| Barium | ND | ug/L | 5.0 | 1 | 06/18/10 10:00 | 06/24/10 22:06 | 7440-39-3 | |
| Cadmium | ND | ug/L | 1.0 | 1 | 06/18/10 10:00 | 06/24/10 22:06 | 7440-43-9 | |
| Chromium | ND | ug/L | 5.0 | 1 | 06/18/10 10:00 | 06/24/10 22:06 | 7440-47-3 | |
| Lead | ND | ug/L | 5.0 | 1 | 06/18/10 10:00 | 06/24/10 22:06 | 7439-92-1 | |
| Selenium | ND | ug/L | 10.0 | 1 | 06/18/10 10:00 | 06/24/10 22:06 | 7782-49-2 | |
| Silver | ND | ug/L | 5.0 | 1 | 06/18/10 10:00 | 06/24/10 22:06 | 7440-22-4 | |
| **7470 Mercury** | Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | |
| Mercury | ND | ug/L | 0.20 | 1 | 07/06/10 15:15 | 07/07/10 11:14 | 7439-97-6 | |
| **625 MSSV** | Analytical Method: EPA 625 Preparation Method: EPA 625 | | | | | | | |
| Acenaphthene | ND | ug/L | 6.9 | 1 | 06/21/10 08:10 | 06/22/10 23:18 | 83-32-9 | |
| Acenaphthylene | ND | ug/L | 6.9 | 1 | 06/21/10 08:10 | 06/22/10 23:18 | 208-96-8 | |
| Anthracene | ND | ug/L | 6.9 | 1 | 06/21/10 08:10 | 06/22/10 23:18 | 120-12-7 | |
| Benzo(a)anthracene | ND | ug/L | 6.9 | 1 | 06/21/10 08:10 | 06/22/10 23:18 | 56-55-3 | |
| Benzo(a)pyrene | ND | ug/L | 6.9 | 1 | 06/21/10 08:10 | 06/22/10 23:18 | 50-32-8 | |
| Benzo(b)fluoranthene | ND | ug/L | 6.9 | 1 | 06/21/10 08:10 | 06/22/10 23:18 | 205-99-2 | |
| Benzo(g,h,i)perylene | ND | ug/L | 6.9 | 1 | 06/21/10 08:10 | 06/22/10 23:18 | 191-24-2 | |
| Benzo(k)fluoranthene | ND | ug/L | 6.9 | 1 | 06/21/10 08:10 | 06/22/10 23:18 | 207-08-9 | |
| 4-Bromophenylphenyl ether | ND | ug/L | 6.9 | 1 | 06/21/10 08:10 | 06/22/10 23:18 | 101-55-3 | |
| Butylbenzylphthalate | ND | ug/L | 6.9 | 1 | 06/21/10 08:10 | 06/22/10 23:18 | 85-68-7 | |
| 4-Chloro-3-methylphenol | ND | ug/L | 6.9 | 1 | 06/21/10 08:10 | 06/22/10 23:18 | 59-50-7 | |
| bis(2-Chloroethoxy)methane | ND | ug/L | 13.9 | 1 | 06/21/10 08:10 | 06/22/10 23:18 | 111-91-1 | |
| bis(2-Chloroethyl) ether | ND | ug/L | 6.9 | 1 | 06/21/10 08:10 | 06/22/10 23:18 | 111-44-4 | |
| bis(2-Chloroisopropyl) ether | ND | ug/L | 6.9 | 1 | 06/21/10 08:10 | 06/22/10 23:18 | 108-60-1 | |
| 2-Chloronaphthalene | ND | ug/L | 6.9 | 1 | 06/21/10 08:10 | 06/22/10 23:18 | 91-58-7 | |
| 2-Chlorophenol | ND | ug/L | 6.9 | 1 | 06/21/10 08:10 | 06/22/10 23:18 | 95-57-8 | |
| 4-Chlorophenylphenyl ether | ND | ug/L | 6.9 | 1 | 06/21/10 08:10 | 06/22/10 23:18 | 7005-72-3 | |
| Chrysene | ND | ug/L | 6.9 | 1 | 06/21/10 08:10 | 06/22/10 23:18 | 218-01-9 | |
| Dibenz(a,h)anthracene | ND | ug/L | 6.9 | 1 | 06/21/10 08:10 | 06/22/10 23:18 | 53-70-3 | |
| 3,3'-Dichlorobenzidine | ND | ug/L | 34.7 | 1 | 06/21/10 08:10 | 06/22/10 23:18 | 91-94-1 | |
| 2,4-Dichlorophenol | ND | ug/L | 6.9 | 1 | 06/21/10 08:10 | 06/22/10 23:18 | 120-83-2 | |
| Diethylphthalate | ND | ug/L | 6.9 | 1 | 06/21/10 08:10 | 06/22/10 23:18 | 84-66-2 | |
| 2,4-Dimethylphenol | ND | ug/L | 13.9 | 1 | 06/21/10 08:10 | 06/22/10 23:18 | 105-67-9 | |
| Dimethylphthalate | ND | ug/L | 6.9 | 1 | 06/21/10 08:10 | 06/22/10 23:18 | 131-11-3 | |
| Di-n-butylphthalate | ND | ug/L | 6.9 | 1 | 06/21/10 08:10 | 06/22/10 23:18 | 84-74-2 | |
| 4,6-Dinitro-2-methylphenol | ND | ug/L | 27.8 | 1 | 06/21/10 08:10 | 06/22/10 23:18 | 534-52-1 | |
| 2,4-Dinitrophenol | ND | ug/L | 69.4 | 1 | 06/21/10 08:10 | 06/22/10 23:18 | 51-28-5 | |



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# ANALYTICAL RESULTS

Project: Volvo : Asheville
Pace Project No.: 9271695

**Sample: EQR-GP** **Lab ID: 9271695013** Collected: 06/16/10 15:50 Received: 06/17/10 08:00 Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **625 MSSV** | Analytical Method: EPA 625 Preparation Method: EPA 625 | | | | | | | |
| 2,4-Dinitrotoluene | ND | ug/L | 6.9 | 1 | 06/21/10 08:10 | 06/22/10 23:18 | 121-14-2 | |
| 2,6-Dinitrotoluene | ND | ug/L | 6.9 | 1 | 06/21/10 08:10 | 06/22/10 23:18 | 606-20-2 | |
| Di-n-octylphthalate | ND | ug/L | 6.9 | 1 | 06/21/10 08:10 | 06/22/10 23:18 | 117-84-0 | |
| bis(2-Ethylhexyl)phthalate | ND | ug/L | 6.9 | 1 | 06/21/10 08:10 | 06/22/10 23:18 | 117-81-7 | |
| Fluoranthene | ND | ug/L | 6.9 | 1 | 06/21/10 08:10 | 06/22/10 23:18 | 206-44-0 | |
| Fluorene | ND | ug/L | 6.9 | 1 | 06/21/10 08:10 | 06/22/10 23:18 | 86-73-7 | |
| Hexachloro-1,3-butadiene | ND | ug/L | 6.9 | 1 | 06/21/10 08:10 | 06/22/10 23:18 | 87-68-3 | |
| Hexachlorobenzene | ND | ug/L | 6.9 | 1 | 06/21/10 08:10 | 06/22/10 23:18 | 118-74-1 | |
| Hexachlorocyclopentadiene | ND | ug/L | 13.9 | 1 | 06/21/10 08:10 | 06/22/10 23:18 | 77-47-4 | |
| Hexachloroethane | ND | ug/L | 6.9 | 1 | 06/21/10 08:10 | 06/22/10 23:18 | 67-72-1 | |
| Indeno(1,2,3-cd)pyrene | ND | ug/L | 6.9 | 1 | 06/21/10 08:10 | 06/22/10 23:18 | 193-39-5 | |
| Isophorone | ND | ug/L | 13.9 | 1 | 06/21/10 08:10 | 06/22/10 23:18 | 78-59-1 | |
| Naphthalene | ND | ug/L | 6.9 | 1 | 06/21/10 08:10 | 06/22/10 23:18 | 91-20-3 | |
| Nitrobenzene | ND | ug/L | 6.9 | 1 | 06/21/10 08:10 | 06/22/10 23:18 | 98-95-3 | |
| 2-Nitrophenol | ND | ug/L | 6.9 | 1 | 06/21/10 08:10 | 06/22/10 23:18 | 88-75-5 | |
| 4-Nitrophenol | ND | ug/L | 69.4 | 1 | 06/21/10 08:10 | 06/22/10 23:18 | 100-02-7 | |
| N-Nitrosodimethylamine | ND | ug/L | 6.9 | 1 | 06/21/10 08:10 | 06/22/10 23:18 | 62-75-9 | |
| N-Nitroso-di-n-propylamine | ND | ug/L | 6.9 | 1 | 06/21/10 08:10 | 06/22/10 23:18 | 621-64-7 | |
| N-Nitrosodiphenylamine | ND | ug/L | 13.9 | 1 | 06/21/10 08:10 | 06/22/10 23:18 | 86-30-6 | |
| Pentachlorophenol | ND | ug/L | 34.7 | 1 | 06/21/10 08:10 | 06/22/10 23:18 | 87-86-5 | |
| Phenanthrene | ND | ug/L | 6.9 | 1 | 06/21/10 08:10 | 06/22/10 23:18 | 85-01-8 | |
| Phenol | ND | ug/L | 6.9 | 1 | 06/21/10 08:10 | 06/22/10 23:18 | 108-95-2 | |
| Pyrene | ND | ug/L | 6.9 | 1 | 06/21/10 08:10 | 06/22/10 23:18 | 129-00-0 | |
| 1,2,4-Trichlorobenzene | ND | ug/L | 6.9 | 1 | 06/21/10 08:10 | 06/22/10 23:18 | 120-82-1 | |
| 2,4,6-Trichlorophenol | ND | ug/L | 13.9 | 1 | 06/21/10 08:10 | 06/22/10 23:18 | 88-06-2 | |
| Nitrobenzene-d5 (S) | 36 | % | 10-120 | 1 | 06/21/10 08:10 | 06/22/10 23:18 | 4165-60-0 | |
| 2-Fluorobiphenyl (S) | 41 | % | 15-120 | 1 | 06/21/10 08:10 | 06/22/10 23:18 | 321-60-8 | |
| Terphenyl-d14 (S) | 66 | % | 11-131 | 1 | 06/21/10 08:10 | 06/22/10 23:18 | 1718-51-0 | |
| Phenol-d6 (S) | 20 | % | 10-120 | 1 | 06/21/10 08:10 | 06/22/10 23:18 | 13127-88-3 | |
| 2-Fluorophenol (S) | 28 | % | 10-120 | 1 | 06/21/10 08:10 | 06/22/10 23:18 | 367-12-4 | |
| 2,4,6-Tribromophenol (S) | 57 | % | 10-137 | 1 | 06/21/10 08:10 | 06/22/10 23:18 | 118-79-6 | |
| **6200B MSV** | Analytical Method: SM 6200B | | | | | | | |
| Benzene | ND | ug/L | 0.50 | 1 | | 06/26/10 01:28 | 71-43-2 | |
| Bromobenzene | ND | ug/L | 0.50 | 1 | | 06/26/10 01:28 | 108-86-1 | |
| Bromochloromethane | ND | ug/L | 0.50 | 1 | | 06/26/10 01:28 | 74-97-5 | |
| Bromodichloromethane | ND | ug/L | 0.50 | 1 | | 06/26/10 01:28 | 75-27-4 | |
| Bromoform | ND | ug/L | 0.50 | 1 | | 06/26/10 01:28 | 75-25-2 | |
| Bromomethane | ND | ug/L | 5.0 | 1 | | 06/26/10 01:28 | 74-83-9 | |
| n-Butylbenzene | ND | ug/L | 0.50 | 1 | | 06/26/10 01:28 | 104-51-8 | |
| sec-Butylbenzene | ND | ug/L | 0.50 | 1 | | 06/26/10 01:28 | 135-98-8 | |
| tert-Butylbenzene | ND | ug/L | 0.50 | 1 | | 06/26/10 01:28 | 98-06-6 | |
| Carbon tetrachloride | ND | ug/L | 0.50 | 1 | | 06/26/10 01:28 | 56-23-5 | |
| Chlorobenzene | ND | ug/L | 0.50 | 1 | | 06/26/10 01:28 | 108-90-7 | |
| Chloroethane | ND | ug/L | 1.0 | 1 | | 06/26/10 01:28 | 75-00-3 | |
| Chloroform | ND | ug/L | 0.50 | 1 | | 06/26/10 01:28 | 67-66-3 | |
| Chloromethane | ND | ug/L | 1.0 | 1 | | 06/26/10 01:28 | 74-87-3 | |



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# ANALYTICAL RESULTS

Project: Volvo : Asheville
Pace Project No.: 9271695

**Sample: EQR-GP** **Lab ID: 9271695013** Collected: 06/16/10 15:50 Received: 06/17/10 08:00 Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **6200B MSV** | Analytical Method: SM 6200B | | | | | | | |
| 2-Chlorotoluene | ND | ug/L | 0.50 | 1 | | 06/26/10 01:28 | 95-49-8 | |
| 4-Chlorotoluene | ND | ug/L | 0.50 | 1 | | 06/26/10 01:28 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | ND | ug/L | 1.0 | 1 | | 06/26/10 01:28 | 96-12-8 | |
| Dibromochloromethane | ND | ug/L | 0.50 | 1 | | 06/26/10 01:28 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 0.50 | 1 | | 06/26/10 01:28 | 106-93-4 | |
| Dibromomethane | ND | ug/L | 0.50 | 1 | | 06/26/10 01:28 | 74-95-3 | |
| 1,2-Dichlorobenzene | ND | ug/L | 0.50 | 1 | | 06/26/10 01:28 | 95-50-1 | |
| 1,3-Dichlorobenzene | ND | ug/L | 0.50 | 1 | | 06/26/10 01:28 | 541-73-1 | |
| 1,4-Dichlorobenzene | ND | ug/L | 0.50 | 1 | | 06/26/10 01:28 | 106-46-7 | |
| Dichlorodifluoromethane | ND | ug/L | 0.50 | 1 | | 06/26/10 01:28 | 75-71-8 | |
| 1,1-Dichloroethane | ND | ug/L | 0.50 | 1 | | 06/26/10 01:28 | 75-34-3 | |
| 1,2-Dichloroethane | ND | ug/L | 0.50 | 1 | | 06/26/10 01:28 | 107-06-2 | |
| 1,1-Dichloroethene | ND | ug/L | 0.50 | 1 | | 06/26/10 01:28 | 75-35-4 | |
| cis-1,2-Dichloroethene | ND | ug/L | 0.50 | 1 | | 06/26/10 01:28 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/L | 0.50 | 1 | | 06/26/10 01:28 | 156-60-5 | |
| 1,2-Dichloropropane | ND | ug/L | 0.50 | 1 | | 06/26/10 01:28 | 78-87-5 | |
| 1,3-Dichloropropane | ND | ug/L | 0.50 | 1 | | 06/26/10 01:28 | 142-28-9 | |
| 2,2-Dichloropropane | ND | ug/L | 0.50 | 1 | | 06/26/10 01:28 | 594-20-7 | |
| 1,1-Dichloropropene | ND | ug/L | 0.50 | 1 | | 06/26/10 01:28 | 563-58-6 | |
| cis-1,3-Dichloropropene | ND | ug/L | 0.50 | 1 | | 06/26/10 01:28 | 10061-01-5 | |
| trans-1,3-Dichloropropene | ND | ug/L | 0.50 | 1 | | 06/26/10 01:28 | 10061-02-6 | |
| Diisopropyl ether | ND | ug/L | 0.50 | 1 | | 06/26/10 01:28 | 108-20-3 | |
| Ethylbenzene | ND | ug/L | 0.50 | 1 | | 06/26/10 01:28 | 100-41-4 | |
| Hexachloro-1,3-butadiene | ND | ug/L | 2.0 | 1 | | 06/26/10 01:28 | 87-68-3 | |
| Isopropylbenzene (Cumene) | ND | ug/L | 0.50 | 1 | | 06/26/10 01:28 | 98-82-8 | |
| Methylene Chloride | ND | ug/L | 2.0 | 1 | | 06/26/10 01:28 | 75-09-2 | |
| Methyl-tert-butyl ether | ND | ug/L | 0.50 | 1 | | 06/26/10 01:28 | 1634-04-4 | |
| Naphthalene | ND | ug/L | 2.0 | 1 | | 06/26/10 01:28 | 91-20-3 | |
| n-Propylbenzene | ND | ug/L | 0.50 | 1 | | 06/26/10 01:28 | 103-65-1 | |
| Styrene | ND | ug/L | 0.50 | 1 | | 06/26/10 01:28 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | ND | ug/L | 0.50 | 1 | | 06/26/10 01:28 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 0.50 | 1 | | 06/26/10 01:28 | 79-34-5 | |
| Tetrachloroethene | ND | ug/L | 0.50 | 1 | | 06/26/10 01:28 | 127-18-4 | |
| Toluene | ND | ug/L | 0.50 | 1 | | 06/26/10 01:28 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | ND | ug/L | 2.0 | 1 | | 06/26/10 01:28 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | ND | ug/L | 2.0 | 1 | | 06/26/10 01:28 | 120-82-1 | |
| 1,1,1-Trichloroethane | ND | ug/L | 0.50 | 1 | | 06/26/10 01:28 | 71-55-6 | |
| 1,1,2-Trichloroethane | ND | ug/L | 0.50 | 1 | | 06/26/10 01:28 | 79-00-5 | |
| Trichloroethene | ND | ug/L | 0.50 | 1 | | 06/26/10 01:28 | 79-01-6 | |
| Trichlorofluoromethane | ND | ug/L | 1.0 | 1 | | 06/26/10 01:28 | 75-69-4 | |
| 1,2,3-Trichloropropane | ND | ug/L | 0.50 | 1 | | 06/26/10 01:28 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | ND | ug/L | 0.50 | 1 | | 06/26/10 01:28 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | ND | ug/L | 0.50 | 1 | | 06/26/10 01:28 | 108-67-8 | |
| Vinyl chloride | ND | ug/L | 1.0 | 1 | | 06/26/10 01:28 | 75-01-4 | |
| m&p-Xylene | ND | ug/L | 1.0 | 1 | | 06/26/10 01:28 | 179601-23-1 | |
| o-Xylene | ND | ug/L | 0.50 | 1 | | 06/26/10 01:28 | 95-47-6 | |
| 1,2-Dichloroethane-d4 (S) | 103 | % | 70-130 | 1 | | 06/26/10 01:28 | 17060-07-0 | |



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# ANALYTICAL RESULTS

Project: Volvo : Asheville
Pace Project No.: 9271695

**Sample: EQR-GP** **Lab ID: 9271695013** Collected: 06/16/10 15:50 Received: 06/17/10 08:00 Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **6200B MSV** | Analytical Method: SM 6200B | | | | | | | |
| Dibromofluoromethane (S) | 102 | % | 70-130 | 1 | | 06/26/10 01:28 | 1868-53-7 | |
| 4-Bromofluorobenzene (S) | 95 | % | 70-130 | 1 | | 06/26/10 01:28 | 460-00-4 | |
| Toluene-d8 (S) | 100 | % | 70-130 | 1 | | 06/26/10 01:28 | 2037-26-5 | |



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# ANALYTICAL RESULTS

Project: Volvo : Asheville
Pace Project No.: 9271695

**Sample: EQR-PUMP** **Lab ID: 9271695014** Collected: 06/16/10 16:20 Received: 06/17/10 08:00 Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **8015 GCS THC-Diesel for SP** | Analytical Method: EPA 8015 Modified Preparation Method: EPA 3535 | | | | | | | |
| Diesel Components | ND | mg/L | 0.71 | 1 | 06/21/10 13:00 | 06/22/10 04:38 | 68334-30-5 | |
| n-Pentacosane (S) | 48 | % | 48-110 | 1 | 06/21/10 13:00 | 06/22/10 04:38 | 629-99-2 | |
| **8081 GCS Pesticides** | Analytical Method: EPA 8081 | | | | | | | |
| Aldrin | ND | ug/L | 0.014 | 1 | 06/21/10 16:10 | 06/25/10 22:51 | 309-00-2 | |
| alpha-BHC | ND | ug/L | 0.014 | 1 | 06/21/10 16:10 | 06/25/10 22:51 | 319-84-6 | |
| beta-BHC | ND | ug/L | 0.014 | 1 | 06/21/10 16:10 | 06/25/10 22:51 | 319-85-7 | |
| delta-BHC | ND | ug/L | 0.014 | 1 | 06/21/10 16:10 | 06/25/10 22:51 | 319-86-8 | |
| gamma-BHC (Lindane) | ND | ug/L | 0.014 | 1 | 06/21/10 16:10 | 06/25/10 22:51 | 58-89-9 | |
| Chlordane (Technical) | ND | ug/L | 0.71 | 1 | 06/21/10 16:10 | 06/25/10 22:51 | 57-74-9 | |
| 4,4'-DDD | ND | ug/L | 0.014 | 1 | 06/21/10 16:10 | 06/25/10 22:51 | 72-54-8 | L3 |
| 4,4'-DDE | ND | ug/L | 0.014 | 1 | 06/21/10 16:10 | 06/25/10 22:51 | 72-55-9 | |
| 4,4'-DDT | ND | ug/L | 0.014 | 1 | 06/21/10 16:10 | 06/25/10 22:51 | 50-29-3 | |
| Dieldrin | ND | ug/L | 0.014 | 1 | 06/21/10 16:10 | 06/25/10 22:51 | 60-57-1 | |
| Endosulfan I | ND | ug/L | 0.014 | 1 | 06/21/10 16:10 | 06/25/10 22:51 | 959-98-8 | |
| Endosulfan II | ND | ug/L | 0.014 | 1 | 06/21/10 16:10 | 06/25/10 22:51 | 33213-65-9 | |
| Endosulfan sulfate | ND | ug/L | 0.014 | 1 | 06/21/10 16:10 | 06/25/10 22:51 | 1031-07-8 | |
| Endrin | ND | ug/L | 0.014 | 1 | 06/21/10 16:10 | 06/25/10 22:51 | 72-20-8 | |
| Endrin aldehyde | ND | ug/L | 0.014 | 1 | 06/21/10 16:10 | 06/25/10 22:51 | 7421-93-4 | |
| Heptachlor | ND | ug/L | 0.014 | 1 | 06/21/10 16:10 | 06/25/10 22:51 | 76-44-8 | |
| Heptachlor epoxide | ND | ug/L | 0.014 | 1 | 06/21/10 16:10 | 06/25/10 22:51 | 1024-57-3 | |
| Methoxychlor | ND | ug/L | 0.014 | 1 | 06/21/10 16:10 | 06/25/10 22:51 | 72-43-5 | |
| Toxaphene | ND | ug/L | 0.71 | 1 | 06/21/10 16:10 | 06/25/10 22:51 | 8001-35-2 | |
| Tetrachloro-m-xylene (S) | 100 | % | 66.5-120.3 | 1 | 06/21/10 16:10 | 06/25/10 22:51 | 877-09-8 | |
| Decachlorobiphenyl (S) | 54 | % | 41.7-109.1 | 1 | 06/21/10 16:10 | 06/25/10 22:51 | 2051-24-3 | |
| **8082 GCS PCB** | Analytical Method: EPA 8082 Preparation Method: EPA 3535 | | | | | | | |
| PCB-1016 (Aroclor 1016) | ND | ug/L | 0.71 | 1 | 06/23/10 09:00 | 06/25/10 05:00 | 12674-11-2 | |
| PCB-1221 (Aroclor 1221) | ND | ug/L | 0.71 | 1 | 06/23/10 09:00 | 06/25/10 05:00 | 11104-28-2 | |
| PCB-1232 (Aroclor 1232) | ND | ug/L | 0.71 | 1 | 06/23/10 09:00 | 06/25/10 05:00 | 11141-16-5 | |
| PCB-1242 (Aroclor 1242) | ND | ug/L | 0.71 | 1 | 06/23/10 09:00 | 06/25/10 05:00 | 53469-21-9 | |
| PCB-1248 (Aroclor 1248) | ND | ug/L | 0.71 | 1 | 06/23/10 09:00 | 06/25/10 05:00 | 12672-29-6 | |
| PCB-1254 (Aroclor 1254) | ND | ug/L | 0.71 | 1 | 06/23/10 09:00 | 06/25/10 05:00 | 11097-69-1 | |
| PCB-1260 (Aroclor 1260) | ND | ug/L | 0.71 | 1 | 06/23/10 09:00 | 06/25/10 05:00 | 11096-82-5 | |
| Decachlorobiphenyl (S) | 62 | % | 10-132 | 1 | 06/23/10 09:00 | 06/25/10 05:00 | 2051-24-3 | |
| **MADEP EPH NC Water** | Analytical Method: MADEP EPH Preparation Method: MADEP EPH | | | | | | | |
| Aliphatic (C09-C18) | ND | ug/L | 137 | 1 | 06/21/10 14:00 | 06/22/10 15:35 | | |
| Aliphatic (C19-C36) | ND | ug/L | 137 | 1 | 06/21/10 14:00 | 06/22/10 15:35 | | |
| Aromatic (C11-C22) | ND | ug/L | 137 | 1 | 06/21/10 14:00 | 06/22/10 15:35 | | |
| Nonatriacontane (S) | 75 | % | 40-140 | 1 | 06/21/10 14:00 | 06/22/10 15:35 | 7194-86-7 | |
| o-Terphenyl (S) | 79 | % | 40-140 | 1 | 06/21/10 14:00 | 06/22/10 15:35 | 84-15-1 | |
| **Gasoline Range Organics** | Analytical Method: EPA 5030/8015 Mod. | | | | | | | |
| Gasoline Range Organics | ND | mg/L | 0.080 | 1 | | 06/18/10 22:26 | 8006-61-9 | |
| 4-Bromofluorobenzene (S) | 87 | % | 70-145 | 1 | | 06/18/10 22:26 | 460-00-4 | |



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# ANALYTICAL RESULTS

Project: Volvo : Asheville
Pace Project No.: 9271695

**Sample: EQR-PUMP** **Lab ID: 9271695014** Collected: 06/16/10 16:20 Received: 06/17/10 08:00 Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **VPH NC Water** | Analytical Method: MADEP VPH | | | | | | | |
| Aliphatic (C05-C08) | ND | ug/L | 100 | 1 | | 06/24/10 04:24 | | |
| Aliphatic (C09-C12) | ND | ug/L | 100 | 1 | | 06/24/10 04:24 | | |
| Aromatic (C09-C10) | ND | ug/L | 100 | 1 | | 06/24/10 04:24 | | |
| 2,5-Dibromotoluene (PID)(S) | 111 | % | 70-130 | 1 | | 06/24/10 04:24 | | |
| 2,5-Dibromotoluene (FID)(S) | 114 | % | 70-130 | 1 | | 06/24/10 04:24 | | |
| **6010 MET ICP, 3030C** | Analytical Method: EPA 6010 Preparation Method: SM 3030C | | | | | | | |
| Arsenic | ND | ug/L | 5.0 | 1 | 06/18/10 10:00 | 06/24/10 22:12 | 7440-38-2 | |
| Barium | ND | ug/L | 5.0 | 1 | 06/18/10 10:00 | 06/24/10 22:12 | 7440-39-3 | |
| Cadmium | ND | ug/L | 1.0 | 1 | 06/18/10 10:00 | 06/24/10 22:12 | 7440-43-9 | |
| Chromium | ND | ug/L | 5.0 | 1 | 06/18/10 10:00 | 06/24/10 22:12 | 7440-47-3 | |
| Lead | ND | ug/L | 5.0 | 1 | 06/18/10 10:00 | 06/24/10 22:12 | 7439-92-1 | |
| Selenium | ND | ug/L | 10.0 | 1 | 06/18/10 10:00 | 06/24/10 22:12 | 7782-49-2 | |
| Silver | ND | ug/L | 5.0 | 1 | 06/18/10 10:00 | 06/24/10 22:12 | 7440-22-4 | |
| **7470 Mercury** | Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | |
| Mercury | ND | ug/L | 0.20 | 1 | 07/06/10 15:15 | 07/07/10 11:16 | 7439-97-6 | |
| **625 MSSV** | Analytical Method: EPA 625 Preparation Method: EPA 625 | | | | | | | |
| Acenaphthene | ND | ug/L | 6.7 | 1 | 06/21/10 08:10 | 06/22/10 23:45 | 83-32-9 | |
| Acenaphthylene | ND | ug/L | 6.7 | 1 | 06/21/10 08:10 | 06/22/10 23:45 | 208-96-8 | |
| Anthracene | ND | ug/L | 6.7 | 1 | 06/21/10 08:10 | 06/22/10 23:45 | 120-12-7 | |
| Benzo(a)anthracene | ND | ug/L | 6.7 | 1 | 06/21/10 08:10 | 06/22/10 23:45 | 56-55-3 | |
| Benzo(a)pyrene | ND | ug/L | 6.7 | 1 | 06/21/10 08:10 | 06/22/10 23:45 | 50-32-8 | |
| Benzo(b)fluoranthene | ND | ug/L | 6.7 | 1 | 06/21/10 08:10 | 06/22/10 23:45 | 205-99-2 | |
| Benzo(g,h,i)perylene | ND | ug/L | 6.7 | 1 | 06/21/10 08:10 | 06/22/10 23:45 | 191-24-2 | |
| Benzo(k)fluoranthene | ND | ug/L | 6.7 | 1 | 06/21/10 08:10 | 06/22/10 23:45 | 207-08-9 | |
| 4-Bromophenylphenyl ether | ND | ug/L | 6.7 | 1 | 06/21/10 08:10 | 06/22/10 23:45 | 101-55-3 | |
| Butylbenzylphthalate | ND | ug/L | 6.7 | 1 | 06/21/10 08:10 | 06/22/10 23:45 | 85-68-7 | |
| 4-Chloro-3-methylphenol | ND | ug/L | 6.7 | 1 | 06/21/10 08:10 | 06/22/10 23:45 | 59-50-7 | |
| bis(2-Chloroethoxy)methane | ND | ug/L | 13.3 | 1 | 06/21/10 08:10 | 06/22/10 23:45 | 111-91-1 | |
| bis(2-Chloroethyl) ether | ND | ug/L | 6.7 | 1 | 06/21/10 08:10 | 06/22/10 23:45 | 111-44-4 | |
| bis(2-Chloroisopropyl) ether | ND | ug/L | 6.7 | 1 | 06/21/10 08:10 | 06/22/10 23:45 | 108-60-1 | |
| 2-Chloronaphthalene | ND | ug/L | 6.7 | 1 | 06/21/10 08:10 | 06/22/10 23:45 | 91-58-7 | |
| 2-Chlorophenol | ND | ug/L | 6.7 | 1 | 06/21/10 08:10 | 06/22/10 23:45 | 95-57-8 | |
| 4-Chlorophenylphenyl ether | ND | ug/L | 6.7 | 1 | 06/21/10 08:10 | 06/22/10 23:45 | 7005-72-3 | |
| Chrysene | ND | ug/L | 6.7 | 1 | 06/21/10 08:10 | 06/22/10 23:45 | 218-01-9 | |
| Dibenz(a,h)anthracene | ND | ug/L | 6.7 | 1 | 06/21/10 08:10 | 06/22/10 23:45 | 53-70-3 | |
| 3,3'-Dichlorobenzidine | ND | ug/L | 33.3 | 1 | 06/21/10 08:10 | 06/22/10 23:45 | 91-94-1 | |
| 2,4-Dichlorophenol | ND | ug/L | 6.7 | 1 | 06/21/10 08:10 | 06/22/10 23:45 | 120-83-2 | |
| Diethylphthalate | ND | ug/L | 6.7 | 1 | 06/21/10 08:10 | 06/22/10 23:45 | 84-66-2 | |
| 2,4-Dimethylphenol | ND | ug/L | 13.3 | 1 | 06/21/10 08:10 | 06/22/10 23:45 | 105-67-9 | |
| Dimethylphthalate | ND | ug/L | 6.7 | 1 | 06/21/10 08:10 | 06/22/10 23:45 | 131-11-3 | |
| Di-n-butylphthalate | ND | ug/L | 6.7 | 1 | 06/21/10 08:10 | 06/22/10 23:45 | 84-74-2 | |
| 4,6-Dinitro-2-methylphenol | ND | ug/L | 26.7 | 1 | 06/21/10 08:10 | 06/22/10 23:45 | 534-52-1 | |
| 2,4-Dinitrophenol | ND | ug/L | 66.7 | 1 | 06/21/10 08:10 | 06/22/10 23:45 | 51-28-5 | |



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# ANALYTICAL RESULTS

Project: Volvo : Asheville
Pace Project No.: 9271695

**Sample: EQR-PUMP** **Lab ID: 9271695014** Collected: 06/16/10 16:20 Received: 06/17/10 08:00 Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **625 MSSV** | Analytical Method: EPA 625 Preparation Method: EPA 625 | | | | | | | |
| 2,4-Dinitrotoluene | ND | ug/L | 6.7 | 1 | 06/21/10 08:10 | 06/22/10 23:45 | 121-14-2 | |
| 2,6-Dinitrotoluene | ND | ug/L | 6.7 | 1 | 06/21/10 08:10 | 06/22/10 23:45 | 606-20-2 | |
| Di-n-octylphthalate | ND | ug/L | 6.7 | 1 | 06/21/10 08:10 | 06/22/10 23:45 | 117-84-0 | |
| bis(2-Ethylhexyl)phthalate | ND | ug/L | 6.7 | 1 | 06/21/10 08:10 | 06/22/10 23:45 | 117-81-7 | |
| Fluoranthene | ND | ug/L | 6.7 | 1 | 06/21/10 08:10 | 06/22/10 23:45 | 206-44-0 | |
| Fluorene | ND | ug/L | 6.7 | 1 | 06/21/10 08:10 | 06/22/10 23:45 | 86-73-7 | |
| Hexachloro-1,3-butadiene | ND | ug/L | 6.7 | 1 | 06/21/10 08:10 | 06/22/10 23:45 | 87-68-3 | |
| Hexachlorobenzene | ND | ug/L | 6.7 | 1 | 06/21/10 08:10 | 06/22/10 23:45 | 118-74-1 | |
| Hexachlorocyclopentadiene | ND | ug/L | 13.3 | 1 | 06/21/10 08:10 | 06/22/10 23:45 | 77-47-4 | |
| Hexachloroethane | ND | ug/L | 6.7 | 1 | 06/21/10 08:10 | 06/22/10 23:45 | 67-72-1 | |
| Indeno(1,2,3-cd)pyrene | ND | ug/L | 6.7 | 1 | 06/21/10 08:10 | 06/22/10 23:45 | 193-39-5 | |
| Isophorone | ND | ug/L | 13.3 | 1 | 06/21/10 08:10 | 06/22/10 23:45 | 78-59-1 | |
| Naphthalene | ND | ug/L | 6.7 | 1 | 06/21/10 08:10 | 06/22/10 23:45 | 91-20-3 | |
| Nitrobenzene | ND | ug/L | 6.7 | 1 | 06/21/10 08:10 | 06/22/10 23:45 | 98-95-3 | |
| 2-Nitrophenol | ND | ug/L | 6.7 | 1 | 06/21/10 08:10 | 06/22/10 23:45 | 88-75-5 | |
| 4-Nitrophenol | ND | ug/L | 66.7 | 1 | 06/21/10 08:10 | 06/22/10 23:45 | 100-02-7 | |
| N-Nitrosodimethylamine | ND | ug/L | 6.7 | 1 | 06/21/10 08:10 | 06/22/10 23:45 | 62-75-9 | |
| N-Nitroso-di-n-propylamine | ND | ug/L | 6.7 | 1 | 06/21/10 08:10 | 06/22/10 23:45 | 621-64-7 | |
| N-Nitrosodiphenylamine | ND | ug/L | 13.3 | 1 | 06/21/10 08:10 | 06/22/10 23:45 | 86-30-6 | |
| Pentachlorophenol | ND | ug/L | 33.3 | 1 | 06/21/10 08:10 | 06/22/10 23:45 | 87-86-5 | |
| Phenanthrene | ND | ug/L | 6.7 | 1 | 06/21/10 08:10 | 06/22/10 23:45 | 85-01-8 | |
| Phenol | ND | ug/L | 6.7 | 1 | 06/21/10 08:10 | 06/22/10 23:45 | 108-95-2 | |
| Pyrene | ND | ug/L | 6.7 | 1 | 06/21/10 08:10 | 06/22/10 23:45 | 129-00-0 | |
| 1,2,4-Trichlorobenzene | ND | ug/L | 6.7 | 1 | 06/21/10 08:10 | 06/22/10 23:45 | 120-82-1 | |
| 2,4,6-Trichlorophenol | ND | ug/L | 13.3 | 1 | 06/21/10 08:10 | 06/22/10 23:45 | 88-06-2 | |
| Nitrobenzene-d5 (S) | 52 | % | 10-120 | 1 | 06/21/10 08:10 | 06/22/10 23:45 | 4165-60-0 | |
| 2-Fluorobiphenyl (S) | 55 | % | 15-120 | 1 | 06/21/10 08:10 | 06/22/10 23:45 | 321-60-8 | |
| Terphenyl-d14 (S) | 82 | % | 11-131 | 1 | 06/21/10 08:10 | 06/22/10 23:45 | 1718-51-0 | |
| Phenol-d6 (S) | 25 | % | 10-120 | 1 | 06/21/10 08:10 | 06/22/10 23:45 | 13127-88-3 | |
| 2-Fluorophenol (S) | 37 | % | 10-120 | 1 | 06/21/10 08:10 | 06/22/10 23:45 | 367-12-4 | |
| 2,4,6-Tribromophenol (S) | 71 | % | 10-137 | 1 | 06/21/10 08:10 | 06/22/10 23:45 | 118-79-6 | |
| **6200B MSV** | Analytical Method: SM 6200B | | | | | | | |
| Benzene | ND | ug/L | 0.50 | 1 | | 06/26/10 01:51 | 71-43-2 | |
| Bromobenzene | ND | ug/L | 0.50 | 1 | | 06/26/10 01:51 | 108-86-1 | |
| Bromochloromethane | ND | ug/L | 0.50 | 1 | | 06/26/10 01:51 | 74-97-5 | |
| Bromodichloromethane | ND | ug/L | 0.50 | 1 | | 06/26/10 01:51 | 75-27-4 | |
| Bromoform | ND | ug/L | 0.50 | 1 | | 06/26/10 01:51 | 75-25-2 | |
| Bromomethane | ND | ug/L | 5.0 | 1 | | 06/26/10 01:51 | 74-83-9 | |
| n-Butylbenzene | ND | ug/L | 0.50 | 1 | | 06/26/10 01:51 | 104-51-8 | |
| sec-Butylbenzene | ND | ug/L | 0.50 | 1 | | 06/26/10 01:51 | 135-98-8 | |
| tert-Butylbenzene | ND | ug/L | 0.50 | 1 | | 06/26/10 01:51 | 98-06-6 | |
| Carbon tetrachloride | ND | ug/L | 0.50 | 1 | | 06/26/10 01:51 | 56-23-5 | |
| Chlorobenzene | ND | ug/L | 0.50 | 1 | | 06/26/10 01:51 | 108-90-7 | |
| Chloroethane | ND | ug/L | 1.0 | 1 | | 06/26/10 01:51 | 75-00-3 | |
| Chloroform | ND | ug/L | 0.50 | 1 | | 06/26/10 01:51 | 67-66-3 | |
| Chloromethane | ND | ug/L | 1.0 | 1 | | 06/26/10 01:51 | 74-87-3 | |



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# ANALYTICAL RESULTS

Project: Volvo : Asheville
Pace Project No.: 9271695

**Sample: EQR-PUMP** **Lab ID: 9271695014** Collected: 06/16/10 16:20 Received: 06/17/10 08:00 Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **6200B MSV** | Analytical Method: SM 6200B | | | | | | | |
| 2-Chlorotoluene | ND | ug/L | 0.50 | 1 | | 06/26/10 01:51 | 95-49-8 | |
| 4-Chlorotoluene | ND | ug/L | 0.50 | 1 | | 06/26/10 01:51 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | ND | ug/L | 1.0 | 1 | | 06/26/10 01:51 | 96-12-8 | |
| Dibromochloromethane | ND | ug/L | 0.50 | 1 | | 06/26/10 01:51 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 0.50 | 1 | | 06/26/10 01:51 | 106-93-4 | |
| Dibromomethane | ND | ug/L | 0.50 | 1 | | 06/26/10 01:51 | 74-95-3 | |
| 1,2-Dichlorobenzene | ND | ug/L | 0.50 | 1 | | 06/26/10 01:51 | 95-50-1 | |
| 1,3-Dichlorobenzene | ND | ug/L | 0.50 | 1 | | 06/26/10 01:51 | 541-73-1 | |
| 1,4-Dichlorobenzene | ND | ug/L | 0.50 | 1 | | 06/26/10 01:51 | 106-46-7 | |
| Dichlorodifluoromethane | ND | ug/L | 0.50 | 1 | | 06/26/10 01:51 | 75-71-8 | |
| 1,1-Dichloroethane | ND | ug/L | 0.50 | 1 | | 06/26/10 01:51 | 75-34-3 | |
| 1,2-Dichloroethane | ND | ug/L | 0.50 | 1 | | 06/26/10 01:51 | 107-06-2 | |
| 1,1-Dichloroethene | ND | ug/L | 0.50 | 1 | | 06/26/10 01:51 | 75-35-4 | |
| cis-1,2-Dichloroethene | ND | ug/L | 0.50 | 1 | | 06/26/10 01:51 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/L | 0.50 | 1 | | 06/26/10 01:51 | 156-60-5 | |
| 1,2-Dichloropropane | ND | ug/L | 0.50 | 1 | | 06/26/10 01:51 | 78-87-5 | |
| 1,3-Dichloropropane | ND | ug/L | 0.50 | 1 | | 06/26/10 01:51 | 142-28-9 | |
| 2,2-Dichloropropane | ND | ug/L | 0.50 | 1 | | 06/26/10 01:51 | 594-20-7 | |
| 1,1-Dichloropropene | ND | ug/L | 0.50 | 1 | | 06/26/10 01:51 | 563-58-6 | |
| cis-1,3-Dichloropropene | ND | ug/L | 0.50 | 1 | | 06/26/10 01:51 | 10061-01-5 | |
| trans-1,3-Dichloropropene | ND | ug/L | 0.50 | 1 | | 06/26/10 01:51 | 10061-02-6 | |
| Diisopropyl ether | ND | ug/L | 0.50 | 1 | | 06/26/10 01:51 | 108-20-3 | |
| Ethylbenzene | ND | ug/L | 0.50 | 1 | | 06/26/10 01:51 | 100-41-4 | |
| Hexachloro-1,3-butadiene | ND | ug/L | 2.0 | 1 | | 06/26/10 01:51 | 87-68-3 | |
| Isopropylbenzene (Cumene) | ND | ug/L | 0.50 | 1 | | 06/26/10 01:51 | 98-82-8 | |
| Methylene Chloride | ND | ug/L | 2.0 | 1 | | 06/26/10 01:51 | 75-09-2 | |
| Methyl-tert-butyl ether | ND | ug/L | 0.50 | 1 | | 06/26/10 01:51 | 1634-04-4 | |
| Naphthalene | ND | ug/L | 2.0 | 1 | | 06/26/10 01:51 | 91-20-3 | |
| n-Propylbenzene | ND | ug/L | 0.50 | 1 | | 06/26/10 01:51 | 103-65-1 | |
| Styrene | ND | ug/L | 0.50 | 1 | | 06/26/10 01:51 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | ND | ug/L | 0.50 | 1 | | 06/26/10 01:51 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 0.50 | 1 | | 06/26/10 01:51 | 79-34-5 | |
| Tetrachloroethene | ND | ug/L | 0.50 | 1 | | 06/26/10 01:51 | 127-18-4 | |
| Toluene | ND | ug/L | 0.50 | 1 | | 06/26/10 01:51 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | ND | ug/L | 2.0 | 1 | | 06/26/10 01:51 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | ND | ug/L | 2.0 | 1 | | 06/26/10 01:51 | 120-82-1 | |
| 1,1,1-Trichloroethane | ND | ug/L | 0.50 | 1 | | 06/26/10 01:51 | 71-55-6 | |
| 1,1,2-Trichloroethane | ND | ug/L | 0.50 | 1 | | 06/26/10 01:51 | 79-00-5 | |
| Trichloroethene | ND | ug/L | 0.50 | 1 | | 06/26/10 01:51 | 79-01-6 | |
| Trichlorofluoromethane | ND | ug/L | 1.0 | 1 | | 06/26/10 01:51 | 75-69-4 | |
| 1,2,3-Trichloropropane | ND | ug/L | 0.50 | 1 | | 06/26/10 01:51 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | ND | ug/L | 0.50 | 1 | | 06/26/10 01:51 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | ND | ug/L | 0.50 | 1 | | 06/26/10 01:51 | 108-67-8 | |
| Vinyl chloride | ND | ug/L | 1.0 | 1 | | 06/26/10 01:51 | 75-01-4 | |
| m&p-Xylene | ND | ug/L | 1.0 | 1 | | 06/26/10 01:51 | 179601-23-1 | |
| o-Xylene | ND | ug/L | 0.50 | 1 | | 06/26/10 01:51 | 95-47-6 | |
| 1,2-Dichloroethane-d4 (S) | 105 | % | 70-130 | 1 | | 06/26/10 01:51 | 17060-07-0 | |



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# ANALYTICAL RESULTS

Project: Volvo : Asheville
Pace Project No.: 9271695

**Sample: EQR-PUMP** **Lab ID: 9271695014** Collected: 06/16/10 16:20 Received: 06/17/10 08:00 Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **6200B MSV** | Analytical Method: SM 6200B | | | | | | | |
| Dibromofluoromethane (S) | 104 | % | 70-130 | 1 | | 06/26/10 01:51 | 1868-53-7 | |
| 4-Bromofluorobenzene (S) | 94 | % | 70-130 | 1 | | 06/26/10 01:51 | 460-00-4 | |
| Toluene-d8 (S) | 99 | % | 70-130 | 1 | | 06/26/10 01:51 | 2037-26-5 | |



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# ANALYTICAL RESULTS

Project: Volvo : Asheville
Pace Project No.: 9271695

**Sample: Trip Blank** **Lab ID: 9271695015** Collected: 06/16/10 00:00 Received: 06/17/10 08:00 Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **6200B MSV** | Analytical Method: SM 6200B | | | | | | | |
| Benzene | ND | ug/L | 0.50 | 1 | | 06/25/10 23:54 | 71-43-2 | |
| Bromobenzene | ND | ug/L | 0.50 | 1 | | 06/25/10 23:54 | 108-86-1 | |
| Bromochloromethane | ND | ug/L | 0.50 | 1 | | 06/25/10 23:54 | 74-97-5 | |
| Bromodichloromethane | ND | ug/L | 0.50 | 1 | | 06/25/10 23:54 | 75-27-4 | |
| Bromoform | ND | ug/L | 0.50 | 1 | | 06/25/10 23:54 | 75-25-2 | |
| Bromomethane | ND | ug/L | 5.0 | 1 | | 06/25/10 23:54 | 74-83-9 | |
| n-Butylbenzene | ND | ug/L | 0.50 | 1 | | 06/25/10 23:54 | 104-51-8 | |
| sec-Butylbenzene | ND | ug/L | 0.50 | 1 | | 06/25/10 23:54 | 135-98-8 | |
| tert-Butylbenzene | ND | ug/L | 0.50 | 1 | | 06/25/10 23:54 | 98-06-6 | |
| Carbon tetrachloride | ND | ug/L | 0.50 | 1 | | 06/25/10 23:54 | 56-23-5 | |
| Chlorobenzene | ND | ug/L | 0.50 | 1 | | 06/25/10 23:54 | 108-90-7 | |
| Chloroethane | ND | ug/L | 1.0 | 1 | | 06/25/10 23:54 | 75-00-3 | |
| Chloroform | ND | ug/L | 0.50 | 1 | | 06/25/10 23:54 | 67-66-3 | |
| Chloromethane | ND | ug/L | 1.0 | 1 | | 06/25/10 23:54 | 74-87-3 | |
| 2-Chlorotoluene | ND | ug/L | 0.50 | 1 | | 06/25/10 23:54 | 95-49-8 | |
| 4-Chlorotoluene | ND | ug/L | 0.50 | 1 | | 06/25/10 23:54 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | ND | ug/L | 1.0 | 1 | | 06/25/10 23:54 | 96-12-8 | |
| Dibromochloromethane | ND | ug/L | 0.50 | 1 | | 06/25/10 23:54 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 0.50 | 1 | | 06/25/10 23:54 | 106-93-4 | |
| Dibromomethane | ND | ug/L | 0.50 | 1 | | 06/25/10 23:54 | 74-95-3 | |
| 1,2-Dichlorobenzene | ND | ug/L | 0.50 | 1 | | 06/25/10 23:54 | 95-50-1 | |
| 1,3-Dichlorobenzene | ND | ug/L | 0.50 | 1 | | 06/25/10 23:54 | 541-73-1 | |
| 1,4-Dichlorobenzene | ND | ug/L | 0.50 | 1 | | 06/25/10 23:54 | 106-46-7 | |
| Dichlorodifluoromethane | ND | ug/L | 0.50 | 1 | | 06/25/10 23:54 | 75-71-8 | |
| 1,1-Dichloroethane | ND | ug/L | 0.50 | 1 | | 06/25/10 23:54 | 75-34-3 | |
| 1,2-Dichloroethane | ND | ug/L | 0.50 | 1 | | 06/25/10 23:54 | 107-06-2 | |
| 1,1-Dichloroethene | ND | ug/L | 0.50 | 1 | | 06/25/10 23:54 | 75-35-4 | |
| cis-1,2-Dichloroethene | ND | ug/L | 0.50 | 1 | | 06/25/10 23:54 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/L | 0.50 | 1 | | 06/25/10 23:54 | 156-60-5 | |
| 1,2-Dichloropropane | ND | ug/L | 0.50 | 1 | | 06/25/10 23:54 | 78-87-5 | |
| 1,3-Dichloropropane | ND | ug/L | 0.50 | 1 | | 06/25/10 23:54 | 142-28-9 | |
| 2,2-Dichloropropane | ND | ug/L | 0.50 | 1 | | 06/25/10 23:54 | 594-20-7 | |
| 1,1-Dichloropropene | ND | ug/L | 0.50 | 1 | | 06/25/10 23:54 | 563-58-6 | |
| cis-1,3-Dichloropropene | ND | ug/L | 0.50 | 1 | | 06/25/10 23:54 | 10061-01-5 | |
| trans-1,3-Dichloropropene | ND | ug/L | 0.50 | 1 | | 06/25/10 23:54 | 10061-02-6 | |
| Diisopropyl ether | ND | ug/L | 0.50 | 1 | | 06/25/10 23:54 | 108-20-3 | |
| Ethylbenzene | ND | ug/L | 0.50 | 1 | | 06/25/10 23:54 | 100-41-4 | |
| Hexachloro-1,3-butadiene | ND | ug/L | 2.0 | 1 | | 06/25/10 23:54 | 87-68-3 | |
| Isopropylbenzene (Cumene) | ND | ug/L | 0.50 | 1 | | 06/25/10 23:54 | 98-82-8 | |
| Methylene Chloride | ND | ug/L | 2.0 | 1 | | 06/25/10 23:54 | 75-09-2 | |
| Methyl-tert-butyl ether | ND | ug/L | 0.50 | 1 | | 06/25/10 23:54 | 1634-04-4 | |
| Naphthalene | ND | ug/L | 2.0 | 1 | | 06/25/10 23:54 | 91-20-3 | |
| n-Propylbenzene | ND | ug/L | 0.50 | 1 | | 06/25/10 23:54 | 103-65-1 | |
| Styrene | ND | ug/L | 0.50 | 1 | | 06/25/10 23:54 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | ND | ug/L | 0.50 | 1 | | 06/25/10 23:54 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 0.50 | 1 | | 06/25/10 23:54 | 79-34-5 | |
| Tetrachloroethene | ND | ug/L | 0.50 | 1 | | 06/25/10 23:54 | 127-18-4 | |



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# ANALYTICAL RESULTS

Project: Volvo : Asheville
Pace Project No.: 9271695

**Sample: Trip Blank** **Lab ID: 9271695015** Collected: 06/16/10 00:00 Received: 06/17/10 08:00 Matrix: Water

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|
| **6200B MSV** | Analytical Method: SM 6200B | | | | | | | |
| Toluene | ND | ug/L | 0.50 | 1 | | 06/25/10 23:54 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | ND | ug/L | 2.0 | 1 | | 06/25/10 23:54 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | ND | ug/L | 2.0 | 1 | | 06/25/10 23:54 | 120-82-1 | |
| 1,1,1-Trichloroethane | ND | ug/L | 0.50 | 1 | | 06/25/10 23:54 | 71-55-6 | |
| 1,1,2-Trichloroethane | ND | ug/L | 0.50 | 1 | | 06/25/10 23:54 | 79-00-5 | |
| Trichloroethene | ND | ug/L | 0.50 | 1 | | 06/25/10 23:54 | 79-01-6 | |
| Trichlorofluoromethane | ND | ug/L | 1.0 | 1 | | 06/25/10 23:54 | 75-69-4 | |
| 1,2,3-Trichloropropane | ND | ug/L | 0.50 | 1 | | 06/25/10 23:54 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | ND | ug/L | 0.50 | 1 | | 06/25/10 23:54 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | ND | ug/L | 0.50 | 1 | | 06/25/10 23:54 | 108-67-8 | |
| Vinyl chloride | ND | ug/L | 1.0 | 1 | | 06/25/10 23:54 | 75-01-4 | |
| m&p-Xylene | ND | ug/L | 1.0 | 1 | | 06/25/10 23:54 | 179601-23-1 | |
| o-Xylene | ND | ug/L | 0.50 | 1 | | 06/25/10 23:54 | 95-47-6 | |
| 1,2-Dichloroethane-d4 (S) | 103 | % | 70-130 | 1 | | 06/25/10 23:54 | 17060-07-0 | |
| Dibromofluoromethane (S) | 102 | % | 70-130 | 1 | | 06/25/10 23:54 | 1868-53-7 | |
| 4-Bromofluorobenzene (S) | 98 | % | 70-130 | 1 | | 06/25/10 23:54 | 460-00-4 | |
| Toluene-d8 (S) | 99 | % | 70-130 | 1 | | 06/25/10 23:54 | 2037-26-5 | |



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# QUALITY CONTROL DATA

Project: Volvo : Asheville
Pace Project No.: 9271695

QC Batch: OEXT/10332
QC Batch Method: EPA 3546
Analysis Method: EPA 8015 Modified
Analysis Description: 8015 Solid GCSV
Associated Lab Samples: 9271695006, 9271695007

METHOD BLANK: 458969
Matrix: Solid
Associated Lab Samples: 9271695006, 9271695007

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Diesel Components | mg/kg | ND | 5.0 | 06/22/10 11:23 | |
| n-Pentacosane (S) | % | 70 | 41-119 | 06/22/10 11:23 | |

LABORATORY CONTROL SAMPLE: 458970

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Diesel Components | mg/kg | 167 | 131 | 79 | 49-113 | |
| n-Pentacosane (S) | % | | | 89 | 41-119 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 458971 458972

| Parameter | Units | 9271803007 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Components | mg/kg | ND | 238 | 238 | 151 | 175 | 63 | 74 | 10-146 | 15 | |
| n-Pentacosane (S) | % | | | | | | 73 | 72 | 41-119 | | |



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# QUALITY CONTROL DATA

Project: Volvo : Asheville
Pace Project No.: 9271695

QC Batch: OEXT/10342 | Analysis Method: EPA 8015 Modified
QC Batch Method: EPA 3535 | Analysis Description: 8015 GCS
Associated Lab Samples: 9271695013, 9271695014

METHOD BLANK: 459112 | Matrix: Water
Associated Lab Samples: 9271695013, 9271695014

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Diesel Components | mg/L | ND | 0.50 | 06/22/10 02:43 | |
| n-Pentacosane (S) | % | 68 | 48-110 | 06/22/10 02:43 | |

LABORATORY CONTROL SAMPLE & LCSD: 459113 459114

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Components | mg/L | 25 | 21.6 | 20.5 | 87 | 82 | 41-114 | 5 | 30 | |
| n-Pentacosane (S) | % | | | | 82 | 77 | 48-110 | | | |



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# QUALITY CONTROL DATA

Project: Volvo : Asheville
Pace Project No.: 9271695

QC Batch: GCSV/2579 Analysis Method: EPA 8081
QC Batch Method: EPA 8081 Analysis Description: 8081 GCS Pesticides
Associated Lab Samples: 9271695008, 9271695009, 9271695010, 9271695011

METHOD BLANK: 86057 Matrix: Solid
Associated Lab Samples: 9271695008, 9271695009, 9271695010, 9271695011

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| 4,4'-DDD | ug/kg | ND | 1.7 | 06/29/10 17:47 | |
| 4,4'-DDE | ug/kg | ND | 1.7 | 06/29/10 17:47 | |
| 4,4'-DDT | ug/kg | ND | 1.7 | 06/29/10 17:47 | |
| Aldrin | ug/kg | ND | 1.7 | 06/29/10 17:47 | |
| alpha-BHC | ug/kg | ND | 1.7 | 06/29/10 17:47 | |
| beta-BHC | ug/kg | ND | 1.7 | 06/29/10 17:47 | |
| Chlordane (Technical) | ug/kg | ND | 16.8 | 06/29/10 17:47 | |
| delta-BHC | ug/kg | ND | 1.7 | 06/29/10 17:47 | |
| Dieldrin | ug/kg | ND | 1.7 | 06/29/10 17:47 | |
| Endosulfan I | ug/kg | ND | 1.7 | 06/29/10 17:47 | |
| Endosulfan II | ug/kg | ND | 1.7 | 06/29/10 17:47 | |
| Endosulfan sulfate | ug/kg | ND | 1.7 | 06/29/10 17:47 | |
| Endrin | ug/kg | ND | 1.7 | 06/29/10 17:47 | |
| Endrin aldehyde | ug/kg | ND | 1.7 | 06/29/10 17:47 | |
| Endrin ketone | ug/kg | ND | 1.7 | 06/29/10 17:47 | |
| gamma-BHC (Lindane) | ug/kg | ND | 1.7 | 06/29/10 17:47 | |
| Heptachlor | ug/kg | ND | 1.7 | 06/29/10 17:47 | |
| Heptachlor epoxide | ug/kg | ND | 1.7 | 06/29/10 17:47 | |
| Methoxychlor | ug/kg | ND | 1.7 | 06/29/10 17:47 | |
| Toxaphene | ug/kg | ND | 16.8 | 06/30/10 18:43 | |
| Decachlorobiphenyl (S) | % | 106 | 70-130 | 06/29/10 17:47 | |
| Tetrachloro-m-xylene (S) | % | 102 | 70-130 | 06/29/10 17:47 | |

LABORATORY CONTROL SAMPLE: 86058

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| 4,4'-DDD | ug/kg | 16.7 | 17.2 | 103 | 63.6-112.1 | |
| 4,4'-DDE | ug/kg | 16.7 | 17.2 | 103 | 62.7-109.2 | |
| 4,4'-DDT | ug/kg | 16.7 | 18.4 | 110 | 70-130 | |
| Aldrin | ug/kg | 16.7 | 16.0 | 96 | 62.4-93.5 | L0 |
| alpha-BHC | ug/kg | 16.7 | 14.9 | 89 | 55.1-97.5 | |
| beta-BHC | ug/kg | 16.7 | 17.4 | 104 | 39.8-126.6 | |
| delta-BHC | ug/kg | 16.7 | 12.7 | 76 | 25.8-124.1 | |
| Dieldrin | ug/kg | 16.7 | 17.9 | 108 | 23.6-137.7 | |
| Endosulfan I | ug/kg | 16.7 | 17.3 | 104 | 40.5-129.3 | |
| Endosulfan II | ug/kg | 16.7 | 17.5 | 105 | 23.7-147 | |
| Endosulfan sulfate | ug/kg | 16.7 | 17.1 | 103 | 23.2-146.6 | |
| Endrin | ug/kg | 16.7 | 19.2 | 115 | 26.8-137.5 | |
| Endrin aldehyde | ug/kg | 16.7 | 15.1 | 90 | 24.4-152.7 | |
| Endrin ketone | ug/kg | 16.7 | 17.9 | 107 | 24.6-152.8 | |
| gamma-BHC (Lindane) | ug/kg | 16.7 | 16.1 | 97 | 62.1-98.2 | |



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# QUALITY CONTROL DATA

Project: Volvo : Asheville
Pace Project No.: 9271695

LABORATORY CONTROL SAMPLE: 86058

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Heptachlor | ug/kg | 16.7 | 17.2 | 103 | 58.5-102.6 | L0 |
| Heptachlor epoxide | ug/kg | 16.7 | 17.4 | 104 | 47.1-120.8 | |
| Methoxychlor | ug/kg | 16.7 | 19.1 | 115 | 23.5-166 | |
| Decachlorobiphenyl (S) | % | | | 106 | 70-130 | |
| Tetrachloro-m-xylene (S) | % | | | 99 | 70-130 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 86059 86060

| Parameter | Units | 9271695011 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 4,4'-DDD | ug/kg | ND | 16.5 | 16.5 | 12.3 | 11.1 | 75 | 68 | 63.6-112 | 10 | |
| 4,4'-DDE | ug/kg | ND | 16.5 | 16.5 | 13.5 | 12.6 | 82 | 77 | 62.7-109 | 7 | |
| 4,4'-DDT | ug/kg | ND | 16.5 | 16.5 | 15.0 | 13.4 | 91 | 81 | 70-130 | 11 | |
| Aldrin | ug/kg | ND | 16.5 | 16.5 | 13.4 | 12.2 | 81 | 74 | 62.4-93. | 10 | |
| alpha-BHC | ug/kg | ND | 16.5 | 16.5 | 11.0 | 10.1 | 67 | 61 | 55.1-97. | 9 | |
| beta-BHC | ug/kg | ND | 16.5 | 16.5 | 11.4 | 11.7 | 69 | 71 | 39.8-126 | 3 | |
| delta-BHC | ug/kg | ND | 16.5 | 16.5 | 9.1 | 8.7 | 55 | 53 | 25.8-124 | 5 | |
| Dieldrin | ug/kg | ND | 16.5 | 16.5 | 13.7 | 12.2 | 83 | 74 | 23.6-137 | 12 | |
| Endosulfan I | ug/kg | ND | 16.5 | 16.5 | 12.8 | 12.2 | 77 | 74 | 40.5-129 | 4 | |
| Endosulfan II | ug/kg | ND | 16.5 | 16.5 | 12.7 | 12.0 | 77 | 73 | 23.7-147 | 5 | |
| Endosulfan sulfate | ug/kg | ND | 16.5 | 16.5 | 14.1 | 11.9 | 85 | 72 | 23.2-146 | 17 | |
| Endrin | ug/kg | ND | 16.5 | 16.5 | 13.9 | 12.5 | 84 | 76 | 26.8-137 | 10 | |
| Endrin aldehyde | ug/kg | ND | 16.5 | 16.5 | 13.3 | 11.0 | 80 | 67 | 24.4-152 | 19 | |
| Endrin ketone | ug/kg | ND | 16.5 | 16.5 | 14.1 | 13.0 | 86 | 79 | 24.6-152 | 9 | |
| gamma-BHC (Lindane) | ug/kg | ND | 16.5 | 16.5 | 13.0 | 11.4 | 79 | 69 | 62.1-98. | 13 | |
| Heptachlor | ug/kg | ND | 16.5 | 16.5 | 16.3 | 15.2 | 99 | 92 | 58.5-102 | 7 | |
| Heptachlor epoxide | ug/kg | ND | 16.5 | 16.5 | 14.0 | 13.1 | 85 | 79 | 47.1-120 | 6 | |
| Methoxychlor | ug/kg | ND | 16.5 | 16.5 | 13.9 | 12.1 | 84 | 73 | 23.5-166 | 14 | |
| Decachlorobiphenyl (S) | % | | | | | | 87 | 80 | 70-130 | | |
| Tetrachloro-m-xylene (S) | % | | | | | | 91 | 79 | 70-130 | | |



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# QUALITY CONTROL DATA

Project: Volvo : Asheville
Pace Project No.: 9271695

QC Batch: GCSV/2567
Analysis Method: EPA 8081
QC Batch Method: EPA 8081
Analysis Description: 8081 GCS Pesticides
Associated Lab Samples: 9271695013, 9271695014

METHOD BLANK: 85366
Matrix: Water
Associated Lab Samples: 9271695013, 9271695014

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| 4,4'-DDD | ug/L | ND | 0.010 | 06/25/10 20:52 | |
| 4,4'-DDE | ug/L | ND | 0.010 | 06/25/10 20:52 | |
| 4,4'-DDT | ug/L | ND | 0.010 | 06/25/10 20:52 | |
| Aldrin | ug/L | ND | 0.010 | 06/25/10 20:52 | |
| alpha-BHC | ug/L | ND | 0.010 | 06/25/10 20:52 | |
| beta-BHC | ug/L | ND | 0.010 | 06/25/10 20:52 | |
| Chlordane (Technical) | ug/L | ND | 0.50 | 06/25/10 20:52 | |
| delta-BHC | ug/L | ND | 0.010 | 06/25/10 20:52 | |
| Dieldrin | ug/L | ND | 0.010 | 06/25/10 20:52 | |
| Endosulfan I | ug/L | ND | 0.010 | 06/25/10 20:52 | |
| Endosulfan II | ug/L | ND | 0.010 | 06/25/10 20:52 | |
| Endosulfan sulfate | ug/L | ND | 0.010 | 06/25/10 20:52 | |
| Endrin | ug/L | ND | 0.010 | 06/25/10 20:52 | |
| Endrin aldehyde | ug/L | ND | 0.010 | 06/25/10 20:52 | |
| gamma-BHC (Lindane) | ug/L | ND | 0.010 | 06/25/10 20:52 | |
| Heptachlor | ug/L | ND | 0.010 | 06/25/10 20:52 | |
| Heptachlor epoxide | ug/L | ND | 0.010 | 06/25/10 20:52 | |
| Methoxychlor | ug/L | ND | 0.010 | 06/25/10 20:52 | |
| Toxaphene | ug/L | ND | 0.50 | 06/25/10 20:52 | |
| Decachlorobiphenyl (S) | % | 85 | 41.7-109.1 | 06/25/10 20:52 | |
| Tetrachloro-m-xylene (S) | % | 91 | 66.5-120.3 | 06/25/10 20:52 | |

LABORATORY CONTROL SAMPLE: 85367

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| 4,4'-DDD | ug/L | .5 | 0.63 | 127 | 74-122 | L0 |
| 4,4'-DDE | ug/L | .5 | 0.57 | 115 | 74-117 | |
| 4,4'-DDT | ug/L | .5 | 0.52 | 103 | 81-117 | |
| Aldrin | ug/L | .5 | 0.51 | 102 | 56-112 | |
| alpha-BHC | ug/L | .5 | 0.52 | 104 | 66-110 | |
| beta-BHC | ug/L | .5 | 0.57 | 115 | 77-121 | |
| delta-BHC | ug/L | .5 | 0.46 | 91 | 46-108 | |
| Dieldrin | ug/L | .5 | 0.58 | 115 | 76-122 | |
| Endosulfan I | ug/L | .5 | 0.55 | 110 | 75-122 | |
| Endosulfan II | ug/L | .5 | 0.58 | 116 | 75-126 | |
| Endosulfan sulfate | ug/L | .5 | 0.53 | 107 | 74-118 | |
| Endrin | ug/L | .5 | 0.60 | 121 | 71-122 | |
| Endrin aldehyde | ug/L | .5 | 0.56 | 113 | 76-122 | |
| gamma-BHC (Lindane) | ug/L | .5 | 0.58 | 116 | 64-119 | |
| Heptachlor | ug/L | .5 | 0.48 | 96 | 64-116 | |
| Heptachlor epoxide | ug/L | .5 | 0.58 | 115 | 76-120 | |



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# QUALITY CONTROL DATA

Project: Volvo : Asheville
Pace Project No.: 9271695

LABORATORY CONTROL SAMPLE: 85367

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Methoxychlor | ug/L | .5 | 0.52 | 103 | 76-129 | |
| Decachlorobiphenyl (S) | % | | | 102 | 41.7-109.1 | |
| Tetrachloro-m-xylene (S) | % | | | 92 | 66.5-120.3 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 85368 85369

| Parameter | Units | 9271710003 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 4,4'-DDD | ug/L | ND | .5 | .5 | 0.44 | 0.46 | 88 | 91 | 74-122 | 3 | |
| 4,4'-DDE | ug/L | ND | .5 | .5 | 0.34 | 0.32 | 68 | 64 | 74-117 | 6 | M0 |
| 4,4'-DDT | ug/L | ND | .5 | .5 | 0.27 | 0.27 | 54 | 55 | 81-117 | 2 | M0 |
| Aldrin | ug/L | ND | .5 | .5 | 0.37 | 0.37 | 73 | 73 | 46-112 | .4 | |
| alpha-BHC | ug/L | ND | .5 | .5 | 0.51 | 0.57 | 102 | 114 | 66-110 | 12 | M0 |
| beta-BHC | ug/L | ND | .5 | .5 | 0.79 | 0.77 | 159 | 154 | 77-121 | 3 | M0 |
| delta-BHC | ug/L | ND | .5 | .5 | 0.48 | 0.52 | 97 | 104 | 46-108 | 7 | |
| Dieldrin | ug/L | ND | .5 | .5 | 0.50 | 0.54 | 100 | 108 | 76-122 | 8 | |
| Endosulfan I | ug/L | ND | .5 | .5 | 0.53 | 0.56 | 105 | 112 | 75-122 | 6 | |
| Endosulfan II | ug/L | ND | .5 | .5 | 0.56 | 0.62 | 112 | 124 | 75-126 | 11 | |
| Endosulfan sulfate | ug/L | ND | .5 | .5 | 0.65 | 0.70 | 130 | 141 | 74-118 | 8 | M0 |
| Endrin | ug/L | ND | .5 | .5 | 0.53 | 0.57 | 106 | 115 | 71-122 | 8 | |
| Endrin aldehyde | ug/L | ND | .5 | .5 | 0.51 | 0.60 | 102 | 119 | 76-122 | 16 | |
| gamma-BHC (Lindane) | ug/L | ND | .5 | .5 | 0.56 | 0.55 | 111 | 110 | 64-119 | 1 | |
| Heptachlor | ug/L | ND | .5 | .5 | 0.51 | 0.51 | 102 | 101 | 64-116 | .3 | |
| Heptachlor epoxide | ug/L | ND | .5 | .5 | 0.61 | 0.65 | 123 | 130 | 76-120 | 6 | M0 |
| Methoxychlor | ug/L | ND | .5 | .5 | 0.47 | 0.55 | 95 | 110 | 76-129 | 15 | |
| Decachlorobiphenyl (S) | % | | | | | | 34 | 35 | 41.7-109 | | S2 |
| Tetrachloro-m-xylene (S) | % | | | | | | 94 | 95 | 66.5-120 | | |



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# QUALITY CONTROL DATA

Project: Volvo : Asheville
Pace Project No.: 9271695

QC Batch: OEXT/10411 Analysis Method: EPA 8082
QC Batch Method: EPA 3546 Analysis Description: 8082 GCS PCB
Associated Lab Samples: 9271695008, 9271695009, 9271695010, 9271695011

METHOD BLANK: 462311 Matrix: Solid
Associated Lab Samples: 9271695008, 9271695009, 9271695010, 9271695011

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| PCB-1016 (Aroclor 1016) | ug/kg | ND | 33.0 | 06/29/10 06:36 | |
| PCB-1221 (Aroclor 1221) | ug/kg | ND | 33.0 | 06/29/10 06:36 | |
| PCB-1232 (Aroclor 1232) | ug/kg | ND | 33.0 | 06/29/10 06:36 | |
| PCB-1242 (Aroclor 1242) | ug/kg | ND | 33.0 | 06/29/10 06:36 | |
| PCB-1248 (Aroclor 1248) | ug/kg | ND | 33.0 | 06/29/10 06:36 | |
| PCB-1254 (Aroclor 1254) | ug/kg | ND | 33.0 | 06/29/10 06:36 | |
| PCB-1260 (Aroclor 1260) | ug/kg | ND | 33.0 | 06/29/10 06:36 | |
| Decachlorobiphenyl (S) | % | 72 | 21-132 | 06/29/10 06:36 | |

LABORATORY CONTROL SAMPLE: 462312

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| PCB-1016 (Aroclor 1016) | ug/kg | 167 | 121 | 72 | 49-110 | |
| PCB-1260 (Aroclor 1260) | ug/kg | 167 | 115 | 69 | 50-110 | |
| Decachlorobiphenyl (S) | % | | | 71 | 21-132 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 462313 462314

| Parameter | Units | 9272194006 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 (Aroclor 1016) | ug/kg | ND | 192 | 192 | 41.3 | 58.2 | 22 | 30 | 49-150 | 34 | M3,R2 |
| PCB-1260 (Aroclor 1260) | ug/kg | ND | 192 | 192 | 32.5J | 50.4 | 17 | 26 | 50-150 | | M3 |
| Decachlorobiphenyl (S) | % | | | | | | 22 | 29 | 21-132 | | |



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# QUALITY CONTROL DATA

Project: Volvo : Asheville
Pace Project No.: 9271695

QC Batch: OEXT/10365 | Analysis Method: EPA 8082
QC Batch Method: EPA 3535 | Analysis Description: 8082 GCS PCB
Associated Lab Samples: 9271695013, 9271695014

METHOD BLANK: 459977 | Matrix: Water
Associated Lab Samples: 9271695013, 9271695014

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| PCB-1016 (Aroclor 1016) | ug/L | ND | 0.50 | 06/25/10 03:32 | |
| PCB-1221 (Aroclor 1221) | ug/L | ND | 0.50 | 06/25/10 03:32 | |
| PCB-1232 (Aroclor 1232) | ug/L | ND | 0.50 | 06/25/10 03:32 | |
| PCB-1242 (Aroclor 1242) | ug/L | ND | 0.50 | 06/25/10 03:32 | |
| PCB-1248 (Aroclor 1248) | ug/L | ND | 0.50 | 06/25/10 03:32 | |
| PCB-1254 (Aroclor 1254) | ug/L | ND | 0.50 | 06/25/10 03:32 | |
| PCB-1260 (Aroclor 1260) | ug/L | ND | 0.50 | 06/25/10 03:32 | |
| Decachlorobiphenyl (S) | % | 63 | 10-132 | 06/25/10 03:32 | |

LABORATORY CONTROL SAMPLE & LCSD: 459978 460005

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 (Aroclor 1016) | ug/L | 5 | 2.6 | 3.4 | 52 | 68 | 38-113 | 27 | 30 | |
| PCB-1260 (Aroclor 1260) | ug/L | 5 | 2.3 | 3.0 | 46 | 61 | 35-120 | 27 | 30 | |
| Decachlorobiphenyl (S) | % | | | | 60 | 82 | 10-132 | | | |



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# QUALITY CONTROL DATA

Project: Volvo : Asheville
Pace Project No.: 9271695

QC Batch: OEXT/10343 Analysis Method: MADEP EPH
QC Batch Method: MADEP EPH Analysis Description: MADEP EPH NC Soil
Associated Lab Samples: 9271695008, 9271695009, 9271695010, 9271695011

METHOD BLANK: 459128 Matrix: Solid
Associated Lab Samples: 9271695008, 9271695009, 9271695010, 9271695011

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Aliphatic (C09-C18) | mg/kg | ND | 10.0 | 06/23/10 00:01 | |
| Aliphatic (C19-C36) | mg/kg | ND | 10.0 | 06/23/10 00:01 | |
| Aromatic (C11-C22) | mg/kg | ND | 10.0 | 06/23/10 00:01 | |
| 2-Bromonaphthalene (S) | % | 110 | 40-140 | 06/23/10 00:01 | |
| 2-Fluorobiphenyl (S) | % | 98 | 40-140 | 06/23/10 00:01 | |
| Nonatriacontane (S) | % | 77 | 40-140 | 06/23/10 00:01 | |
| o-Terphenyl (S) | % | 72 | 40-140 | 06/23/10 00:01 | |

LABORATORY CONTROL SAMPLE & LCSD: 459129 459130

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatic (C09-C18) | mg/kg | 10 | ND | ND | 75 | 83 | 40-140 | | 50 | |
| Aliphatic (C19-C36) | mg/kg | 13.3 | 10.6 | 11.5 | 79 | 86 | 40-140 | 9 | 50 | |
| Aromatic (C11-C22) | mg/kg | 28.3 | 21.1 | 24.8 | 74 | 87 | 40-140 | 16 | 50 | |
| 2-Bromonaphthalene (S) | % | | | | 101 | 104 | 40-140 | | | |
| 2-Fluorobiphenyl (S) | % | | | | 94 | 96 | 40-140 | | | |
| Nonatriacontane (S) | % | | | | 73 | 84 | 40-140 | | | |
| o-Terphenyl (S) | % | | | | 68 | 80 | 40-140 | | | |



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# QUALITY CONTROL DATA

Project: Volvo : Asheville
Pace Project No.: 9271695

QC Batch: OEXT/10344 Analysis Method: MADEP EPH
QC Batch Method: MADEP EPH Analysis Description: MADEP EPH NC Water
Associated Lab Samples: 9271695012, 9271695013, 9271695014

METHOD BLANK: 459234 Matrix: Water
Associated Lab Samples: 9271695012, 9271695013, 9271695014

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Aliphatic (C09-C18) | ug/L | ND | 100 | 06/23/10 14:11 | |
| Aliphatic (C19-C36) | ug/L | ND | 100 | 06/23/10 14:11 | |
| Aromatic (C11-C22) | ug/L | ND | 100 | 06/23/10 14:11 | |
| 2-Bromonaphthalene (S) | % | 111 | 40-140 | 06/23/10 14:11 | |
| 2-Fluorobiphenyl (S) | % | 102 | 40-140 | 06/23/10 14:11 | |
| Nonatriacontane (S) | % | 82 | 40-140 | 06/23/10 14:11 | |
| o-Terphenyl (S) | % | 83 | 40-140 | 06/23/10 14:11 | |

LABORATORY CONTROL SAMPLE & LCSD: 459235 459236

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatic (C09-C18) | ug/L | 300 | 172 | 191 | 57 | 64 | 40-140 | 10 | 50 | |
| Aliphatic (C19-C36) | ug/L | 400 | 285 | 391 | 71 | 98 | 40-140 | 31 | 50 | |
| Aromatic (C11-C22) | ug/L | 850 | 710 | 729 | 83 | 86 | 40-140 | 3 | 50 | |
| 2-Bromonaphthalene (S) | % | | | | 117 | 120 | 40-140 | | | |
| 2-Fluorobiphenyl (S) | % | | | | 101 | 103 | 40-140 | | | |
| Nonatriacontane (S) | % | | | | 80 | 86 | 40-140 | | | |
| o-Terphenyl (S) | % | | | | 79 | 86 | 40-140 | | | |



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# QUALITY CONTROL DATA

Project: Volvo : Asheville
Pace Project No.: 9271695

QC Batch: GCV/4120
QC Batch Method: EPA 5035A/5030B
Analysis Method: EPA 8015 Modified
Analysis Description: Gasoline Range Organics
Associated Lab Samples: 9271695006, 9271695007

METHOD BLANK: 459222
Matrix: Solid
Associated Lab Samples: 9271695006, 9271695007

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Gasoline Range Organics | mg/kg | ND | 6.0 | 06/21/10 18:18 | |
| 4-Bromofluorobenzene (S) | % | 112 | 70-167 | 06/21/10 18:18 | |

LABORATORY CONTROL SAMPLE: 459223

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Gasoline Range Organics | mg/kg | 25 | 23.5 | 94 | 70-165 | |
| 4-Bromofluorobenzene (S) | % | | | 84 | 70-167 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 459224 459225

| Parameter | Units | 9271536019 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics | mg/kg | 79.5 | 23.7 | 23.7 | 87.7 | 83.1 | 34 | 15 | 47-187 | 5 | M3 |
| 4-Bromofluorobenzene (S) | % | | | | | | 195 | 205 | 70-167 | | S2 |



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# QUALITY CONTROL DATA

Project: Volvo : Asheville
Pace Project No.: 9271695

QC Batch: GCV/4113 | Analysis Method: EPA 5030/8015 Mod.
QC Batch Method: EPA 5030/8015 Mod. | Analysis Description: Gasoline Range Organics
Associated Lab Samples: 9271695013, 9271695014

METHOD BLANK: 458130 | Matrix: Water
Associated Lab Samples: 9271695013, 9271695014

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Gasoline Range Organics | mg/L | ND | 0.080 | 06/18/10 18:02 | |
| 4-Bromofluorobenzene (S) | % | 127 | 70-145 | 06/18/10 18:02 | |

LABORATORY CONTROL SAMPLE: 458131

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Gasoline Range Organics | mg/L | .5 | 0.46 | 92 | 70-150 | |
| 4-Bromofluorobenzene (S) | % | | | 84 | 70-145 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 458316 458317

| Parameter | Units | 9271283009 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics | mg/L | 5.8 | .5 | .5 | 7.0 | 6.5 | 245 | 141 | 70-150 | 8 | P6 |
| 4-Bromofluorobenzene (S) | % | | | | | | 102 | 98 | 70-145 | | |



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# QUALITY CONTROL DATA

Project: Volvo : Asheville
Pace Project No.: 9271695

QC Batch: GCV/4130 Analysis Method: MADEP VPH
QC Batch Method: MADEP VPH Analysis Description: VPH NC Soil
Associated Lab Samples: 9271695008, 9271695009, 9271695010, 9271695011

METHOD BLANK: 460836 Matrix: Solid
Associated Lab Samples: 9271695008, 9271695009, 9271695010, 9271695011

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Aliphatic (C05-C08) | mg/kg | ND | 10.0 | 06/25/10 12:56 | |
| Aliphatic (C09-C12) | mg/kg | ND | 10.0 | 06/25/10 12:56 | |
| Aromatic (C09-C10) | mg/kg | ND | 10.0 | 06/25/10 12:56 | |
| 2,5-Dibromotoluene (FID)(S) | % | 112 | 70-130 | 06/25/10 12:56 | |
| 2,5-Dibromotoluene (PID)(S) | % | 112 | 70-130 | 06/25/10 12:56 | |

LABORATORY CONTROL SAMPLE & LCSD: 460837 460838

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatic (C05-C08) | mg/kg | 15 | 13.5 | 12.7 | 90 | 85 | 70-130 | 6 | 25 | |
| Aliphatic (C09-C12) | mg/kg | 15 | 15.2 | 14.7 | 102 | 98 | 30-130 | 3 | 25 | |
| Aromatic (C09-C10) | mg/kg | 5 | ND | ND | 98 | 94 | 70-130 | | 25 | |
| 2,5-Dibromotoluene (FID)(S) | % | | | | 108 | 99 | 70-130 | | | |
| 2,5-Dibromotoluene (PID)(S) | % | | | | 109 | 100 | 70-130 | | | |



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# QUALITY CONTROL DATA

Project: Volvo : Asheville
Pace Project No.: 9271695

QC Batch: GCV/4128 Analysis Method: MADEP VPH
QC Batch Method: MADEP VPH Analysis Description: VPH NC Water
Associated Lab Samples: 9271695012, 9271695013, 9271695014

METHOD BLANK: 460226 Matrix: Water
Associated Lab Samples: 9271695012, 9271695013, 9271695014

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Aliphatic (C05-C08) | ug/L | ND | 100 | 06/23/10 17:16 | |
| Aliphatic (C09-C12) | ug/L | ND | 100 | 06/23/10 17:16 | |
| Aromatic (C09-C10) | ug/L | ND | 100 | 06/23/10 17:16 | |
| 2,5-Dibromotoluene (FID)(S) | % | 118 | 70-130 | 06/23/10 17:16 | |
| 2,5-Dibromotoluene (PID)(S) | % | 116 | 70-130 | 06/23/10 17:16 | |

LABORATORY CONTROL SAMPLE & LCSD: 460227 460228

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| Aliphatic (C05-C08) | ug/L | 300 | 272 | 256 | 91 | 85 | 70-130 | 6 | 25 | |
| Aliphatic (C09-C12) | ug/L | 300 | 312 | 301 | 104 | 100 | 30-130 | 4 | 25 | |
| Aromatic (C09-C10) | ug/L | 100 | ND | ND | 99 | 95 | 70-130 | | 25 | |
| 2,5-Dibromotoluene (FID)(S) | % | | | | 109 | 106 | 70-130 | | | |
| 2,5-Dibromotoluene (PID)(S) | % | | | | 114 | 106 | 70-130 | | | |



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# QUALITY CONTROL DATA

Project: Volvo : Asheville
Pace Project No.: 9271695

QC Batch: MPRP/6536 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Associated Lab Samples: 9271695001, 9271695002, 9271695003, 9271695004, 9271695005, 9271695008, 9271695009, 9271695010, 9271695011

METHOD BLANK: 458222 Matrix: Solid
Associated Lab Samples: 9271695001, 9271695002, 9271695003, 9271695004, 9271695005, 9271695008, 9271695009, 9271695010, 9271695011

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Arsenic | mg/kg | ND | 0.50 | 06/21/10 16:14 | |
| Barium | mg/kg | ND | 0.50 | 06/21/10 16:14 | |
| Cadmium | mg/kg | ND | 0.10 | 06/21/10 16:14 | |
| Chromium | mg/kg | ND | 0.50 | 06/21/10 16:14 | |
| Lead | mg/kg | ND | 0.50 | 06/21/10 16:14 | |
| Selenium | mg/kg | ND | 1.0 | 06/21/10 16:14 | |
| Silver | mg/kg | ND | 0.50 | 06/21/10 16:14 | |

LABORATORY CONTROL SAMPLE: 458223

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Arsenic | mg/kg | 50 | 54.1 | 108 | 80-120 | |
| Barium | mg/kg | 50 | 51.7 | 103 | 80-120 | |
| Cadmium | mg/kg | 50 | 54.8 | 110 | 80-120 | |
| Chromium | mg/kg | 50 | 56.1 | 112 | 80-120 | |
| Lead | mg/kg | 50 | 54.4 | 109 | 80-120 | |
| Selenium | mg/kg | 50 | 52.7 | 105 | 80-120 | |
| Silver | mg/kg | 25 | 25.2 | 101 | 80-120 | |

MATRIX SPIKE SAMPLE: 458224

| Parameter | Units | 9271716001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Arsenic | mg/kg | 0.825 ug/g | 29.1 | 35.1 | 118 | 75-125 | |
| Barium | mg/kg | 741 ug/g | 29.1 | 753 | 41 | 75-125 | M0 |
| Cadmium | mg/kg | 0.0753 ug/g | 29.1 | 33.4 | 115 | 75-125 | |
| Chromium | mg/kg | 144 ug/g | 29.1 | 180 | 123 | 75-125 | |
| Lead | mg/kg | 4.52 ug/g | 29.1 | 37.4 | 113 | 75-125 | |
| Selenium | mg/kg | ND | 29.1 | 31.9 | 109 | 75-125 | |
| Silver | mg/kg | ND | 14.5 | 15.1 | 103 | 75-125 | |

SAMPLE DUPLICATE: 458225

| Parameter | Units | 9271718001 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Arsenic | mg/kg | ND | ND | | |
| Barium | mg/kg | ND | .04J | | |
| Cadmium | mg/kg | ND | ND | | |
| Chromium | mg/kg | ND | ND | | |



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# QUALITY CONTROL DATA

Project: Volvo : Asheville
Pace Project No.: 9271695

SAMPLE DUPLICATE: 458225

| Parameter | Units | 9271718001 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Lead | mg/kg | ND | ND | | |
| Selenium | mg/kg | ND | 0.83 | | |
| Silver | mg/kg | ND | ND | | |



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# QUALITY CONTROL DATA

Project: Volvo : Asheville
Pace Project No.: 9271695

QC Batch: MPRP/6529 Analysis Method: EPA 6010
QC Batch Method: SM 3030C Analysis Description: 6010 MET 3030C
Associated Lab Samples: 9271695012, 9271695013, 9271695014

METHOD BLANK: 457925 Matrix: Water
Associated Lab Samples: 9271695012, 9271695013, 9271695014

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Chromium | ug/L | ND | 5.0 | 06/24/10 21:43 | |
| Lead | ug/L | ND | 5.0 | 06/24/10 21:43 | |

LABORATORY CONTROL SAMPLE: 457926

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Chromium | ug/L | 500 | 471 | 94 | 80-120 | |
| Lead | ug/L | 500 | 485 | 97 | 80-120 | |

MATRIX SPIKE SAMPLE: 457927

| Parameter | Units | 9271695012 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Chromium | ug/L | ND | 500 | 494 | 98 | 75-125 | |
| Lead | ug/L | 5.1 | 500 | 506 | 100 | 75-125 | |

SAMPLE DUPLICATE: 457928

| Parameter | Units | 9271695013 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Chromium | ug/L | ND | .96J | | |
| Lead | ug/L | ND | ND | | |



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# QUALITY CONTROL DATA

Project: Volvo : Asheville
Pace Project No.: 9271695

QC Batch: MERP/2890 — Analysis Method: EPA 7470
QC Batch Method: EPA 7470 — Analysis Description: 7470 Mercury
Associated Lab Samples: 9271695013, 9271695014

METHOD BLANK: 465187 — Matrix: Water
Associated Lab Samples: 9271695013, 9271695014

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Mercury | ug/L | ND | 0.20 | 07/07/10 11:09 | |

LABORATORY CONTROL SAMPLE: 465188

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Mercury | ug/L | 2.5 | 2.6 | 104 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 465189 465190

| Parameter | Units | 9272516001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ug/L | ND | 2.5 | 2.5 | 2.7 | 2.7 | 108 | 108 | 75-125 | 1 | |

SAMPLE DUPLICATE: 465615

| Parameter | Units | 9272516002 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Mercury | ug/L | 50.6 | 51.4 | 2 | |



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# QUALITY CONTROL DATA

Project: Volvo : Asheville
Pace Project No.: 9271695

QC Batch: MERP/2870 — Analysis Method: EPA 7471
QC Batch Method: EPA 7471 — Analysis Description: 7471 Mercury
Associated Lab Samples: 9271695001

METHOD BLANK: 459429 — Matrix: Solid
Associated Lab Samples: 9271695001

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Mercury | mg/kg | ND | 0.0050 | 06/22/10 12:16 | |

LABORATORY CONTROL SAMPLE: 459430

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Mercury | mg/kg | .067 | 0.061 | 92 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 459431 459432

| Parameter | Units | 9271695001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | mg/kg | ND | .08 | .074 | 0.071 | 0.069 | 88 | 90 | 75-125 | 4 | |



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# QUALITY CONTROL DATA

Project: Volvo : Asheville
Pace Project No.: 9271695

QC Batch: MERP/2873 Analysis Method: EPA 7471
QC Batch Method: EPA 7471 Analysis Description: 7471 Mercury
Associated Lab Samples: 9271695002, 9271695003, 9271695004, 9271695005

METHOD BLANK: 459641 Matrix: Solid
Associated Lab Samples: 9271695002, 9271695003, 9271695004, 9271695005

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Mercury | mg/kg | ND | 0.0050 | 06/24/10 12:27 | |

LABORATORY CONTROL SAMPLE: 459642

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Mercury | mg/kg | .067 | 0.063 | 94 | 80-120 | |

MATRIX SPIKE SAMPLE: 459643

| Parameter | Units | 9271695002 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Mercury | mg/kg | ND | .074 | 0.082 | 108 | 75-125 | |

SAMPLE DUPLICATE: 459644

| Parameter | Units | 9271695003 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Mercury | mg/kg | 0.019 | 0.019 | 1 | |



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# QUALITY CONTROL DATA

Project: Volvo : Asheville
Pace Project No.: 9271695

QC Batch: OEXT/10329 Analysis Method: EPA 625
QC Batch Method: EPA 625 Analysis Description: 625 MSS
Associated Lab Samples: 9271695012, 9271695013, 9271695014

METHOD BLANK: 458959 Matrix: Water
Associated Lab Samples: 9271695012, 9271695013, 9271695014

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ug/L | ND | 5.0 | 06/22/10 21:01 | |
| 2,4,6-Trichlorophenol | ug/L | ND | 10.0 | 06/22/10 21:01 | |
| 2,4-Dichlorophenol | ug/L | ND | 5.0 | 06/22/10 21:01 | |
| 2,4-Dimethylphenol | ug/L | ND | 10.0 | 06/22/10 21:01 | |
| 2,4-Dinitrophenol | ug/L | ND | 50.0 | 06/22/10 21:01 | |
| 2,4-Dinitrotoluene | ug/L | ND | 5.0 | 06/22/10 21:01 | |
| 2,6-Dinitrotoluene | ug/L | ND | 5.0 | 06/22/10 21:01 | |
| 2-Chloronaphthalene | ug/L | ND | 5.0 | 06/22/10 21:01 | |
| 2-Chlorophenol | ug/L | ND | 5.0 | 06/22/10 21:01 | |
| 2-Nitrophenol | ug/L | ND | 5.0 | 06/22/10 21:01 | |
| 3,3'-Dichlorobenzidine | ug/L | ND | 25.0 | 06/22/10 21:01 | |
| 4,6-Dinitro-2-methylphenol | ug/L | ND | 20.0 | 06/22/10 21:01 | |
| 4-Bromophenylphenyl ether | ug/L | ND | 5.0 | 06/22/10 21:01 | |
| 4-Chloro-3-methylphenol | ug/L | ND | 5.0 | 06/22/10 21:01 | |
| 4-Chlorophenylphenyl ether | ug/L | ND | 5.0 | 06/22/10 21:01 | |
| 4-Nitrophenol | ug/L | ND | 50.0 | 06/22/10 21:01 | |
| Acenaphthene | ug/L | ND | 5.0 | 06/22/10 21:01 | |
| Acenaphthylene | ug/L | ND | 5.0 | 06/22/10 21:01 | |
| Anthracene | ug/L | ND | 5.0 | 06/22/10 21:01 | |
| Benzo(a)anthracene | ug/L | ND | 5.0 | 06/22/10 21:01 | |
| Benzo(a)pyrene | ug/L | ND | 5.0 | 06/22/10 21:01 | |
| Benzo(b)fluoranthene | ug/L | ND | 5.0 | 06/22/10 21:01 | |
| Benzo(g,h,i)perylene | ug/L | ND | 5.0 | 06/22/10 21:01 | |
| Benzo(k)fluoranthene | ug/L | ND | 5.0 | 06/22/10 21:01 | |
| bis(2-Chloroethoxy)methane | ug/L | ND | 10.0 | 06/22/10 21:01 | |
| bis(2-Chloroethyl) ether | ug/L | ND | 5.0 | 06/22/10 21:01 | |
| bis(2-Chloroisopropyl) ether | ug/L | ND | 5.0 | 06/22/10 21:01 | |
| bis(2-Ethylhexyl)phthalate | ug/L | ND | 5.0 | 06/22/10 21:01 | |
| Butylbenzylphthalate | ug/L | ND | 5.0 | 06/22/10 21:01 | |
| Chrysene | ug/L | ND | 5.0 | 06/22/10 21:01 | |
| Di-n-butylphthalate | ug/L | ND | 5.0 | 06/22/10 21:01 | |
| Di-n-octylphthalate | ug/L | ND | 5.0 | 06/22/10 21:01 | |
| Dibenz(a,h)anthracene | ug/L | ND | 5.0 | 06/22/10 21:01 | |
| Diethylphthalate | ug/L | ND | 5.0 | 06/22/10 21:01 | |
| Dimethylphthalate | ug/L | ND | 5.0 | 06/22/10 21:01 | |
| Fluoranthene | ug/L | ND | 5.0 | 06/22/10 21:01 | |
| Fluorene | ug/L | ND | 5.0 | 06/22/10 21:01 | |
| Hexachloro-1,3-butadiene | ug/L | ND | 5.0 | 06/22/10 21:01 | |
| Hexachlorobenzene | ug/L | ND | 5.0 | 06/22/10 21:01 | |
| Hexachlorocyclopentadiene | ug/L | ND | 10.0 | 06/22/10 21:01 | |
| Hexachloroethane | ug/L | ND | 5.0 | 06/22/10 21:01 | |
| Indeno(1,2,3-cd)pyrene | ug/L | ND | 5.0 | 06/22/10 21:01 | |
| Isophorone | ug/L | ND | 10.0 | 06/22/10 21:01 | |



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# QUALITY CONTROL DATA

Project: Volvo : Asheville
Pace Project No.: 9271695

METHOD BLANK: 458959 Matrix: Water

Associated Lab Samples: 9271695012, 9271695013, 9271695014

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| N-Nitroso-di-n-propylamine | ug/L | ND | 5.0 | 06/22/10 21:01 | |
| N-Nitrosodimethylamine | ug/L | ND | 5.0 | 06/22/10 21:01 | |
| N-Nitrosodiphenylamine | ug/L | ND | 10.0 | 06/22/10 21:01 | |
| Naphthalene | ug/L | ND | 5.0 | 06/22/10 21:01 | |
| Nitrobenzene | ug/L | ND | 5.0 | 06/22/10 21:01 | |
| Pentachlorophenol | ug/L | ND | 25.0 | 06/22/10 21:01 | |
| Phenanthrene | ug/L | ND | 5.0 | 06/22/10 21:01 | |
| Phenol | ug/L | ND | 5.0 | 06/22/10 21:01 | |
| Pyrene | ug/L | ND | 5.0 | 06/22/10 21:01 | |
| 2,4,6-Tribromophenol (S) | % | 68 | 10-137 | 06/22/10 21:01 | |
| 2-Fluorobiphenyl (S) | % | 69 | 15-120 | 06/22/10 21:01 | |
| 2-Fluorophenol (S) | % | 43 | 10-120 | 06/22/10 21:01 | |
| Nitrobenzene-d5 (S) | % | 65 | 10-120 | 06/22/10 21:01 | |
| Phenol-d6 (S) | % | 27 | 10-120 | 06/22/10 21:01 | |
| Terphenyl-d14 (S) | % | 80 | 11-131 | 06/22/10 21:01 | |

LABORATORY CONTROL SAMPLE: 458960

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ug/L | 50 | 17.3 | 35 | 44-142 | L2 |
| 2,4,6-Trichlorophenol | ug/L | 50 | 43.0 | 86 | 37-144 | |
| 2,4-Dichlorophenol | ug/L | 50 | 30.3 | 61 | 1-191 | |
| 2,4-Dimethylphenol | ug/L | 50 | 32.7 | 65 | 32-119 | |
| 2,4-Dinitrophenol | ug/L | 250 | 156 | 63 | 1-181 | |
| 2,4-Dinitrotoluene | ug/L | 50 | 41.7 | 83 | 39-139 | |
| 2,6-Dinitrotoluene | ug/L | 50 | 41.7 | 83 | 50-158 | |
| 2-Chloronaphthalene | ug/L | 50 | 40.2 | 80 | 60-118 | |
| 2-Chlorophenol | ug/L | 50 | 26.1 | 52 | 23-134 | |
| 2-Nitrophenol | ug/L | 50 | 25.5 | 51 | 29-182 | |
| 3,3'-Dichlorobenzidine | ug/L | 250 | 191 | 76 | 1-262 | |
| 4,6-Dinitro-2-methylphenol | ug/L | 100 | 77.9 | 78 | 1-181 | |
| 4-Bromophenylphenyl ether | ug/L | 50 | 40.0 | 80 | 53-127 | |
| 4-Chloro-3-methylphenol | ug/L | 100 | 68.0 | 68 | 22-147 | |
| 4-Chlorophenylphenyl ether | ug/L | 50 | 39.6 | 79 | 25-158 | |
| 4-Nitrophenol | ug/L | 250 | 109 | 44 | 1-132 | |
| Acenaphthene | ug/L | 50 | 38.4 | 77 | 47-145 | |
| Acenaphthylene | ug/L | 50 | 38.3 | 77 | 33-145 | |
| Anthracene | ug/L | 50 | 41.3 | 83 | 1-166 | |
| Benzo(a)anthracene | ug/L | 50 | 40.6 | 81 | 33-143 | |
| Benzo(a)pyrene | ug/L | 50 | 38.7 | 77 | 17-163 | |
| Benzo(b)fluoranthene | ug/L | 50 | 45.0 | 90 | 24-159 | |
| Benzo(g,h,i)perylene | ug/L | 50 | 43.1 | 86 | 1-219 | |
| Benzo(k)fluoranthene | ug/L | 50 | 39.2 | 78 | 11-162 | |
| bis(2-Chloroethoxy)methane | ug/L | 50 | 35.0 | 70 | 33-184 | |
| bis(2-Chloroethyl) ether | ug/L | 50 | 26.2 | 52 | 12-158 | |



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# QUALITY CONTROL DATA

Project: Volvo : Asheville
Pace Project No.: 9271695

LABORATORY CONTROL SAMPLE: 458960

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| bis(2-Chloroisopropyl) ether | ug/L | 50 | 24.4 | 49 | 36-166 | |
| bis(2-Ethylhexyl)phthalate | ug/L | 50 | 36.7 | 73 | 8-158 | |
| Butylbenzylphthalate | ug/L | 50 | 38.4 | 77 | 1-152 | |
| Chrysene | ug/L | 50 | 39.1 | 78 | 17-168 | |
| Di-n-butylphthalate | ug/L | 50 | 38.7 | 77 | 1-118 | |
| Di-n-octylphthalate | ug/L | 50 | 37.5 | 75 | 4-146 | |
| Dibenz(a,h)anthracene | ug/L | 50 | 43.4 | 87 | 1-227 | |
| Diethylphthalate | ug/L | 50 | 38.8 | 78 | 1-114 | |
| Dimethylphthalate | ug/L | 50 | 37.6 | 75 | 1-112 | |
| Fluoranthene | ug/L | 50 | 42.9 | 86 | 26-137 | |
| Fluorene | ug/L | 50 | 40.3 | 81 | 59-121 | |
| Hexachloro-1,3-butadiene | ug/L | 50 | 12.1 | 24 | 24-116 | |
| Hexachlorobenzene | ug/L | 50 | 41.7 | 83 | 1-152 | |
| Hexachlorocyclopentadiene | ug/L | 50 | 26.4 | 53 | 25-150 | |
| Hexachloroethane | ug/L | 50 | 11.0 | 22 | 40-113 | L2 |
| Indeno(1,2,3-cd)pyrene | ug/L | 50 | 43.1 | 86 | 1-171 | |
| Isophorone | ug/L | 50 | 29.4 | 59 | 21-196 | |
| N-Nitroso-di-n-propylamine | ug/L | 50 | 34.7 | 69 | 1-230 | |
| N-Nitrosodimethylamine | ug/L | 50 | 16.3 | 33 | 25-150 | |
| N-Nitrosodiphenylamine | ug/L | 50 | 41.0 | 82 | 25-150 | |
| Naphthalene | ug/L | 50 | 22.3 | 45 | 21-133 | |
| Nitrobenzene | ug/L | 50 | 23.5 | 47 | 35-180 | |
| Pentachlorophenol | ug/L | 250 | 190 | 76 | 14-176 | |
| Phenanthrene | ug/L | 50 | 41.2 | 82 | 54-120 | |
| Phenol | ug/L | 50 | 16.0 | 32 | 5-112 | |
| Pyrene | ug/L | 50 | 40.8 | 82 | 52-115 | |
| 2,4,6-Tribromophenol (S) | % | | | 86 | 10-137 | |
| 2-Fluorobiphenyl (S) | % | | | 70 | 15-120 | |
| 2-Fluorophenol (S) | % | | | 31 | 10-120 | |
| Nitrobenzene-d5 (S) | % | | | 46 | 10-120 | |
| Phenol-d6 (S) | % | | | 26 | 10-120 | |
| Terphenyl-d14 (S) | % | | | 81 | 11-131 | |



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# QUALITY CONTROL DATA

Project: Volvo : Asheville
Pace Project No.: 9271695

QC Batch: OEXT/10340 Analysis Method: EPA 8270
QC Batch Method: EPA 3546 Analysis Description: 8270 Solid MSSV Microwave
Associated Lab Samples: 9271695006, 9271695007, 9271695008, 9271695009, 9271695010, 9271695011

METHOD BLANK: 459080 Matrix: Solid
Associated Lab Samples: 9271695006, 9271695007, 9271695008, 9271695009, 9271695010, 9271695011

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ug/kg | ND | 330 | 06/23/10 18:09 | |
| 1,2-Dichlorobenzene | ug/kg | ND | 330 | 06/23/10 18:09 | |
| 1,3-Dichlorobenzene | ug/kg | ND | 330 | 06/23/10 18:09 | |
| 1,4-Dichlorobenzene | ug/kg | ND | 330 | 06/23/10 18:09 | |
| 1-Methylnaphthalene | ug/kg | ND | 330 | 06/23/10 18:09 | |
| 2,4,5-Trichlorophenol | ug/kg | ND | 330 | 06/23/10 18:09 | |
| 2,4,6-Trichlorophenol | ug/kg | ND | 330 | 06/23/10 18:09 | |
| 2,4-Dichlorophenol | ug/kg | ND | 330 | 06/23/10 18:09 | |
| 2,4-Dimethylphenol | ug/kg | ND | 330 | 06/23/10 18:09 | |
| 2,4-Dinitrophenol | ug/kg | ND | 1650 | 06/23/10 18:09 | |
| 2,4-Dinitrotoluene | ug/kg | ND | 330 | 06/23/10 18:09 | |
| 2,6-Dinitrotoluene | ug/kg | ND | 330 | 06/23/10 18:09 | |
| 2-Chloronaphthalene | ug/kg | ND | 330 | 06/23/10 18:09 | |
| 2-Chlorophenol | ug/kg | ND | 330 | 06/23/10 18:09 | |
| 2-Methylnaphthalene | ug/kg | ND | 330 | 06/23/10 18:09 | |
| 2-Methylphenol(o-Cresol) | ug/kg | ND | 330 | 06/23/10 18:09 | |
| 2-Nitroaniline | ug/kg | ND | 1650 | 06/23/10 18:09 | |
| 2-Nitrophenol | ug/kg | ND | 330 | 06/23/10 18:09 | |
| 3&4-Methylphenol(m&p Cresol) | ug/kg | ND | 330 | 06/23/10 18:09 | |
| 3,3'-Dichlorobenzidine | ug/kg | ND | 1650 | 06/23/10 18:09 | |
| 3-Nitroaniline | ug/kg | ND | 1650 | 06/23/10 18:09 | |
| 4,6-Dinitro-2-methylphenol | ug/kg | ND | 660 | 06/23/10 18:09 | |
| 4-Bromophenylphenyl ether | ug/kg | ND | 330 | 06/23/10 18:09 | |
| 4-Chloro-3-methylphenol | ug/kg | ND | 660 | 06/23/10 18:09 | |
| 4-Chloroaniline | ug/kg | ND | 1650 | 06/23/10 18:09 | |
| 4-Chlorophenylphenyl ether | ug/kg | ND | 330 | 06/23/10 18:09 | |
| 4-Nitroaniline | ug/kg | ND | 660 | 06/23/10 18:09 | |
| 4-Nitrophenol | ug/kg | ND | 1650 | 06/23/10 18:09 | |
| Acenaphthene | ug/kg | ND | 330 | 06/23/10 18:09 | |
| Acenaphthylene | ug/kg | ND | 330 | 06/23/10 18:09 | |
| Aniline | ug/kg | ND | 330 | 06/23/10 18:09 | |
| Anthracene | ug/kg | ND | 330 | 06/23/10 18:09 | |
| Benzo(a)anthracene | ug/kg | ND | 330 | 06/23/10 18:09 | |
| Benzo(a)pyrene | ug/kg | ND | 330 | 06/23/10 18:09 | |
| Benzo(b)fluoranthene | ug/kg | ND | 330 | 06/23/10 18:09 | |
| Benzo(g,h,i)perylene | ug/kg | ND | 330 | 06/23/10 18:09 | |
| Benzo(k)fluoranthene | ug/kg | ND | 330 | 06/23/10 18:09 | |
| Benzoic Acid | ug/kg | ND | 1650 | 06/23/10 18:09 | |
| Benzyl alcohol | ug/kg | ND | 660 | 06/23/10 18:09 | |
| bis(2-Chloroethoxy)methane | ug/kg | ND | 330 | 06/23/10 18:09 | |
| bis(2-Chloroethyl) ether | ug/kg | ND | 330 | 06/23/10 18:09 | |
| bis(2-Chloroisopropyl) ether | ug/kg | ND | 330 | 06/23/10 18:09 | |
| bis(2-Ethylhexyl)phthalate | ug/kg | ND | 330 | 06/23/10 18:09 | |



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# QUALITY CONTROL DATA

Project: Volvo : Asheville
Pace Project No.: 9271695

METHOD BLANK: 459080 Matrix: Solid

Associated Lab Samples: 9271695006, 9271695007, 9271695008, 9271695009, 9271695010, 9271695011

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Butylbenzylphthalate | ug/kg | ND | 330 | 06/23/10 18:09 | |
| Chrysene | ug/kg | ND | 330 | 06/23/10 18:09 | |
| Di-n-butylphthalate | ug/kg | ND | 330 | 06/23/10 18:09 | |
| Di-n-octylphthalate | ug/kg | ND | 330 | 06/23/10 18:09 | |
| Dibenz(a,h)anthracene | ug/kg | ND | 330 | 06/23/10 18:09 | |
| Dibenzofuran | ug/kg | ND | 330 | 06/23/10 18:09 | |
| Diethylphthalate | ug/kg | ND | 330 | 06/23/10 18:09 | |
| Dimethylphthalate | ug/kg | ND | 330 | 06/23/10 18:09 | |
| Fluoranthene | ug/kg | ND | 330 | 06/23/10 18:09 | |
| Fluorene | ug/kg | ND | 330 | 06/23/10 18:09 | |
| Hexachloro-1,3-butadiene | ug/kg | ND | 330 | 06/23/10 18:09 | |
| Hexachlorobenzene | ug/kg | ND | 330 | 06/23/10 18:09 | |
| Hexachlorocyclopentadiene | ug/kg | ND | 330 | 06/23/10 18:09 | |
| Hexachloroethane | ug/kg | ND | 330 | 06/23/10 18:09 | |
| Indeno(1,2,3-cd)pyrene | ug/kg | ND | 330 | 06/23/10 18:09 | |
| Isophorone | ug/kg | ND | 330 | 06/23/10 18:09 | |
| N-Nitroso-di-n-propylamine | ug/kg | ND | 330 | 06/23/10 18:09 | |
| N-Nitrosodimethylamine | ug/kg | ND | 330 | 06/23/10 18:09 | |
| N-Nitrosodiphenylamine | ug/kg | ND | 330 | 06/23/10 18:09 | |
| Naphthalene | ug/kg | ND | 330 | 06/23/10 18:09 | |
| Nitrobenzene | ug/kg | ND | 330 | 06/23/10 18:09 | |
| Pentachlorophenol | ug/kg | ND | 1650 | 06/23/10 18:09 | |
| Phenanthrene | ug/kg | ND | 330 | 06/23/10 18:09 | |
| Phenol | ug/kg | ND | 330 | 06/23/10 18:09 | |
| Pyrene | ug/kg | ND | 330 | 06/23/10 18:09 | |
| 2,4,6-Tribromophenol (S) | % | 62 | 27-110 | 06/23/10 18:09 | |
| 2-Fluorobiphenyl (S) | % | 60 | 30-110 | 06/23/10 18:09 | |
| 2-Fluorophenol (S) | % | 58 | 13-110 | 06/23/10 18:09 | |
| Nitrobenzene-d5 (S) | % | 57 | 23-110 | 06/23/10 18:09 | |
| Phenol-d6 (S) | % | 60 | 22-110 | 06/23/10 18:09 | |
| Terphenyl-d14 (S) | % | 76 | 28-110 | 06/23/10 18:09 | |

LABORATORY CONTROL SAMPLE: 459081

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ug/kg | 1670 | 1100 | 66 | 39-101 | |
| 1,2-Dichlorobenzene | ug/kg | 1670 | 1040 | 62 | 36-110 | |
| 1,3-Dichlorobenzene | ug/kg | 1670 | 1020 | 61 | 35-110 | |
| 1,4-Dichlorobenzene | ug/kg | 1670 | 997 | 60 | 35-110 | |
| 1-Methylnaphthalene | ug/kg | 1670 | 1150 | 69 | 45-105 | |
| 2,4,5-Trichlorophenol | ug/kg | 1670 | 1640 | 98 | 48-109 | |
| 2,4,6-Trichlorophenol | ug/kg | 1670 | 1590 | 95 | 45-111 | |
| 2,4-Dichlorophenol | ug/kg | 1670 | 1300 | 78 | 51-116 | |
| 2,4-Dimethylphenol | ug/kg | 1670 | 1340 | 81 | 42-103 | |
| 2,4-Dinitrophenol | ug/kg | 8330 | 7200 | 86 | 28-103 | |



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# QUALITY CONTROL DATA

Project: Volvo : Asheville
Pace Project No.: 9271695

LABORATORY CONTROL SAMPLE: 459081

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| 2,4-Dinitrotoluene | ug/kg | 1670 | 1530 | 92 | 46-114 | |
| 2,6-Dinitrotoluene | ug/kg | 1670 | 1520 | 91 | 48-112 | |
| 2-Chloronaphthalene | ug/kg | 1670 | 1370 | 82 | 44-105 | |
| 2-Chlorophenol | ug/kg | 1670 | 1090 | 65 | 36-110 | |
| 2-Methylnaphthalene | ug/kg | 1670 | 1170 | 70 | 39-112 | |
| 2-Methylphenol(o-Cresol) | ug/kg | 1670 | 1140 | 68 | 39-101 | |
| 2-Nitroaniline | ug/kg | 8330 | 7210 | 86 | 44-111 | |
| 2-Nitrophenol | ug/kg | 1670 | 1260 | 75 | 41-100 | |
| 3&4-Methylphenol(m&p Cresol) | ug/kg | 1670 | 1190 | 72 | 43-103 | |
| 3,3'-Dichlorobenzidine | ug/kg | 8330 | 7560 | 91 | 10-150 | |
| 3-Nitroaniline | ug/kg | 8330 | 6630 | 80 | 35-110 | |
| 4,6-Dinitro-2-methylphenol | ug/kg | 3330 | 3160 | 95 | 38-118 | |
| 4-Bromophenylphenyl ether | ug/kg | 1670 | 1490 | 89 | 47-115 | |
| 4-Chloro-3-methylphenol | ug/kg | 3330 | 2800 | 84 | 43-127 | |
| 4-Chloroaniline | ug/kg | 8330 | 5710 | 68 | 34-109 | |
| 4-Chlorophenylphenyl ether | ug/kg | 1670 | 1440 | 86 | 44-115 | |
| 4-Nitroaniline | ug/kg | 8330 | 7450 | 89 | 37-111 | |
| 4-Nitrophenol | ug/kg | 8330 | 9360 | 112 | 21-152 | |
| Acenaphthene | ug/kg | 1670 | 1390 | 83 | 38-117 | |
| Acenaphthylene | ug/kg | 1670 | 1390 | 83 | 46-107 | |
| Aniline | ug/kg | 1670 | 1120 | 67 | 29-110 | |
| Anthracene | ug/kg | 1670 | 1480 | 89 | 50-110 | |
| Benzo(a)anthracene | ug/kg | 1670 | 1640 | 98 | 47-116 | |
| Benzo(a)pyrene | ug/kg | 1670 | 1420 | 85 | 47-106 | |
| Benzo(b)fluoranthene | ug/kg | 1670 | 1500 | 90 | 47-109 | |
| Benzo(g,h,i)perylene | ug/kg | 1670 | 1560 | 93 | 39-115 | |
| Benzo(k)fluoranthene | ug/kg | 1670 | 1350 | 81 | 45-117 | |
| Benzoic Acid | ug/kg | 8330 | 4640 | 56 | 16-110 | |
| Benzyl alcohol | ug/kg | 3330 | 2360 | 71 | 38-105 | |
| bis(2-Chloroethoxy)methane | ug/kg | 1670 | 1170 | 70 | 39-110 | |
| bis(2-Chloroethyl) ether | ug/kg | 1670 | 1060 | 63 | 19-119 | |
| bis(2-Chloroisopropyl) ether | ug/kg | 1670 | 992 | 60 | 21-110 | |
| bis(2-Ethylhexyl)phthalate | ug/kg | 1670 | 1450 | 87 | 35-116 | |
| Butylbenzylphthalate | ug/kg | 1670 | 1440 | 86 | 38-110 | |
| Chrysene | ug/kg | 1670 | 1470 | 88 | 49-110 | |
| Di-n-butylphthalate | ug/kg | 1670 | 1420 | 85 | 43-109 | |
| Di-n-octylphthalate | ug/kg | 1670 | 1560 | 93 | 37-109 | |
| Dibenz(a,h)anthracene | ug/kg | 1670 | 1590 | 95 | 43-116 | |
| Dibenzofuran | ug/kg | 1670 | 1370 | 82 | 45-106 | |
| Diethylphthalate | ug/kg | 1670 | 1430 | 86 | 41-114 | |
| Dimethylphthalate | ug/kg | 1670 | 1400 | 84 | 43-110 | |
| Fluoranthene | ug/kg | 1670 | 1540 | 93 | 50-114 | |
| Fluorene | ug/kg | 1670 | 1430 | 86 | 46-114 | |
| Hexachloro-1,3-butadiene | ug/kg | 1670 | 1150 | 69 | 28-111 | |
| Hexachlorobenzene | ug/kg | 1670 | 1510 | 90 | 46-120 | |
| Hexachlorocyclopentadiene | ug/kg | 1670 | 1330 | 80 | 18-119 | |
| Hexachloroethane | ug/kg | 1670 | 1010 | 60 | 33-110 | |
| Indeno(1,2,3-cd)pyrene | ug/kg | 1670 | 1550 | 93 | 42-115 | |



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# QUALITY CONTROL DATA

Project: Volvo : Asheville
Pace Project No.: 9271695

LABORATORY CONTROL SAMPLE: 459081

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Isophorone | ug/kg | 1670 | 1270 | 76 | 44-109 | |
| N-Nitroso-di-n-propylamine | ug/kg | 1670 | 1260 | 75 | 43-104 | |
| N-Nitrosodimethylamine | ug/kg | 1670 | 1120 | 67 | 29-110 | |
| N-Nitrosodiphenylamine | ug/kg | 1670 | 1470 | 88 | 48-113 | |
| Naphthalene | ug/kg | 1670 | 1110 | 67 | 41-110 | |
| Nitrobenzene | ug/kg | 1670 | 1110 | 66 | 38-110 | |
| Pentachlorophenol | ug/kg | 8330 | 8230 | 99 | 32-128 | |
| Phenanthrene | ug/kg | 1670 | 1460 | 88 | 50-110 | |
| Phenol | ug/kg | 1670 | 1140 | 69 | 28-106 | |
| Pyrene | ug/kg | 1670 | 1510 | 91 | 45-114 | |
| 2,4,6-Tribromophenol (S) | % | | | 95 | 27-110 | |
| 2-Fluorobiphenyl (S) | % | | | 77 | 30-110 | |
| 2-Fluorophenol (S) | % | | | 66 | 13-110 | |
| Nitrobenzene-d5 (S) | % | | | 65 | 23-110 | |
| Phenol-d6 (S) | % | | | 64 | 22-110 | |
| Terphenyl-d14 (S) | % | | | 89 | 28-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 459082 459083

| Parameter | Units | 9271856002 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ug/kg | ND | 2240 | 2240 | 924 | 876 | 41 | 39 | 18-119 | 5 | |
| 1,2-Dichlorobenzene | ug/kg | ND | 2240 | 2240 | 851 | 793 | 38 | 36 | 50-110 | 7 | M0,M1 |
| 1,3-Dichlorobenzene | ug/kg | ND | 2240 | 2240 | 812 | 756 | 36 | 34 | 27-110 | 7 | |
| 1,4-Dichlorobenzene | ug/kg | ND | 2240 | 2240 | 846 | 761 | 38 | 34 | 28-110 | 11 | |
| 1-Methylnaphthalene | ug/kg | ND | 2240 | 2240 | 1020 | 962 | 46 | 43 | 24-116 | 6 | |
| 2,4,5-Trichlorophenol | ug/kg | ND | 2240 | 2240 | 1120 | 1020 | 50 | 46 | 28-110 | 9 | |
| 2,4,6-Trichlorophenol | ug/kg | ND | 2240 | 2240 | 1190 | 1080 | 53 | 48 | 17-117 | 10 | |
| 2,4-Dichlorophenol | ug/kg | ND | 2240 | 2240 | 1160 | 1090 | 52 | 49 | 21-128 | 6 | |
| 2,4-Dimethylphenol | ug/kg | ND | 2240 | 2240 | 1160 | 1070 | 52 | 48 | 10-120 | 8 | |
| 2,4-Dinitrophenol | ug/kg | ND | 11200 | 11200 | 4150 | 5410 | 37 | 48 | 10-107 | 26 | |
| 2,4-Dinitrotoluene | ug/kg | ND | 2240 | 2240 | 1230 | 1150 | 55 | 51 | 36-109 | 7 | |
| 2,6-Dinitrotoluene | ug/kg | ND | 2240 | 2240 | 1210 | 1120 | 54 | 50 | 32-110 | 7 | |
| 2-Chloronaphthalene | ug/kg | ND | 2240 | 2240 | 976 | 913 | 44 | 41 | 30-107 | 7 | |
| 2-Chlorophenol | ug/kg | ND | 2240 | 2240 | 940 | 887 | 42 | 40 | 14-106 | 6 | |
| 2-Methylnaphthalene | ug/kg | ND | 2240 | 2240 | 1020 | 973 | 45 | 44 | 10-135 | 4 | |
| 2-Methylphenol(o-Cresol) | ug/kg | ND | 2240 | 2240 | 977 | 909 | 44 | 41 | 10-124 | 7 | |
| 2-Nitroaniline | ug/kg | ND | 11200 | 11200 | 5450 | 5070 | 49 | 45 | 26-116 | 7 | |
| 2-Nitrophenol | ug/kg | ND | 2240 | 2240 | 1090 | 1140 | 49 | 51 | 28-103 | 5 | |
| 3&4-Methylphenol(m&p Cresol) | ug/kg | ND | 2240 | 2240 | 1050 | 966 | 47 | 43 | 10-109 | 9 | |
| 3,3'-Dichlorobenzidine | ug/kg | ND | 11200 | 11200 | 5730 | 5050 | 51 | 45 | 10-150 | 12 | |
| 3-Nitroaniline | ug/kg | ND | 11200 | 11200 | 5700 | 5250 | 51 | 47 | 22-110 | 8 | |
| 4,6-Dinitro-2-methylphenol | ug/kg | ND | 4460 | 4460 | 2290 | 2510 | 51 | 56 | 13-121 | 9 | |
| 4-Bromophenylphenyl ether | ug/kg | ND | 2240 | 2240 | 1070 | 952 | 48 | 43 | 31-109 | 12 | |
| 4-Chloro-3-methylphenol | ug/kg | ND | 4460 | 4460 | 2460 | 2210 | 55 | 50 | 13-128 | 11 | |
| 4-Chloroaniline | ug/kg | ND | 11200 | 11200 | 5710 | 5280 | 51 | 47 | 18-102 | 8 | |



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# QUALITY CONTROL DATA

Project: Volvo : Asheville
Pace Project No.: 9271695

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 459082 459083

| Parameter | Units | 9271856002 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-Chlorophenylphenyl ether | ug/kg | ND | 2240 | 2240 | 1010 | 923 | 45 | 41 | 29-112 | 9 | |
| 4-Nitroaniline | ug/kg | ND | 11200 | 11200 | 6000 | 5430 | 54 | 49 | 16-111 | 10 | |
| 4-Nitrophenol | ug/kg | ND | 11200 | 11200 | 5200 | 4890 | 47 | 44 | 14-135 | 6 | |
| Acenaphthene | ug/kg | ND | 2240 | 2240 | 1020 | 953 | 46 | 43 | 26-114 | 7 | |
| Acenaphthylene | ug/kg | ND | 2240 | 2240 | 1040 | 962 | 46 | 43 | 32-108 | 8 | |
| Aniline | ug/kg | ND | 2240 | 2240 | 901 | 852 | 40 | 38 | 10-107 | 6 | |
| Anthracene | ug/kg | ND | 2240 | 2240 | 1100 | 976 | 49 | 44 | 32-111 | 12 | |
| Benzo(a)anthracene | ug/kg | ND | 2240 | 2240 | 1030 | 933 | 46 | 42 | 25-117 | 10 | |
| Benzo(a)pyrene | ug/kg | ND | 2240 | 2240 | 1030 | 932 | 46 | 42 | 25-106 | 10 | |
| Benzo(b)fluoranthene | ug/kg | ND | 2240 | 2240 | 1000 | 906 | 45 | 41 | 24-110 | 10 | |
| Benzo(g,h,i)perylene | ug/kg | ND | 2240 | 2240 | 1100 | 978 | 49 | 44 | 19-112 | 12 | |
| Benzo(k)fluoranthene | ug/kg | ND | 2240 | 2240 | 1030 | 952 | 46 | 43 | 24-114 | 8 | |
| Benzoic Acid | ug/kg | ND | 11200 | 11200 | 2320 | 2190J | 21 | 20 | 10-110 | | |
| Benzyl alcohol | ug/kg | ND | 4460 | 4460 | 2030 | 1820 | 45 | 41 | 24-106 | 11 | |
| bis(2-Chloroethoxy)methane | ug/kg | ND | 2240 | 2240 | 951 | 905 | 43 | 41 | 13-119 | 5 | |
| bis(2-Chloroethyl) ether | ug/kg | ND | 2240 | 2240 | 908 | 865 | 41 | 39 | 10-134 | 5 | |
| bis(2-Chloroisopropyl) ether | ug/kg | ND | 2240 | 2240 | 722 | 686 | 32 | 31 | 10-113 | 5 | |
| bis(2-Ethylhexyl)phthalate | ug/kg | ND | 2240 | 2240 | 915 | 826 | 41 | 37 | 10-125 | 10 | |
| Butylbenzylphthalate | ug/kg | ND | 2240 | 2240 | 872 | 799 | 39 | 36 | 18-110 | 9 | |
| Chrysene | ug/kg | ND | 2240 | 2240 | 1020 | 928 | 46 | 42 | 30-110 | 9 | |
| Di-n-butylphthalate | ug/kg | ND | 2240 | 2240 | 934 | 841 | 42 | 38 | 19-112 | 10 | |
| Di-n-octylphthalate | ug/kg | ND | 2240 | 2240 | 903 | 813 | 40 | 36 | 17-105 | 11 | |
| Dibenz(a,h)anthracene | ug/kg | ND | 2240 | 2240 | 1100 | 978 | 49 | 44 | 23-111 | 12 | |
| Dibenzofuran | ug/kg | ND | 2240 | 2240 | 1030 | 937 | 46 | 42 | 35-103 | 9 | |
| Diethylphthalate | ug/kg | ND | 2240 | 2240 | 977 | 902 | 44 | 40 | 27-113 | 8 | |
| Dimethylphthalate | ug/kg | ND | 2240 | 2240 | 1030 | 945 | 46 | 42 | 26-111 | 9 | |
| Fluoranthene | ug/kg | ND | 2240 | 2240 | 1120 | 1000 | 50 | 45 | 33-109 | 12 | |
| Fluorene | ug/kg | ND | 2240 | 2240 | 1040 | 955 | 47 | 43 | 32-113 | 9 | |
| Hexachloro-1,3-butadiene | ug/kg | ND | 2240 | 2240 | 812 | 775 | 36 | 35 | 16-116 | 5 | |
| Hexachlorobenzene | ug/kg | ND | 2240 | 2240 | 1140 | 1000 | 51 | 45 | 27-120 | 13 | |
| Hexachlorocyclopentadiene | ug/kg | ND | 2240 | 2240 | 618 | 669 | 28 | 30 | 10-108 | 8 | |
| Hexachloroethane | ug/kg | ND | 2240 | 2240 | 800 | 733 | 36 | 33 | 10-117 | 9 | |
| Indeno(1,2,3-cd)pyrene | ug/kg | ND | 2240 | 2240 | 1090 | 962 | 49 | 43 | 10-122 | 12 | |
| Isophorone | ug/kg | ND | 2240 | 2240 | 1070 | 980 | 48 | 44 | 28-114 | 9 | |
| N-Nitroso-di-n-propylamine | ug/kg | ND | 2240 | 2240 | 1060 | 1000 | 48 | 45 | 27-113 | 6 | |
| N-Nitrosodimethylamine | ug/kg | ND | 2240 | 2240 | 783 | 744 | 35 | 33 | 10-109 | 5 | |
| N-Nitrosodiphenylamine | ug/kg | ND | 2240 | 2240 | 1100 | 981 | 49 | 44 | 10-128 | 12 | |
| Naphthalene | ug/kg | ND | 2240 | 2240 | 919 | 886 | 41 | 40 | 25-110 | 4 | |
| Nitrobenzene | ug/kg | ND | 2240 | 2240 | 853 | 837 | 38 | 38 | 18-114 | 2 | |
| Pentachlorophenol | ug/kg | ND | 11200 | 11200 | 6870 | 6020 | 62 | 54 | 10-122 | 13 | |
| Phenanthrene | ug/kg | ND | 2240 | 2240 | 1070 | 960 | 48 | 43 | 30-114 | 11 | |
| Phenol | ug/kg | ND | 2240 | 2240 | 933 | 874 | 42 | 39 | 11-102 | 6 | |
| Pyrene | ug/kg | ND | 2240 | 2240 | 1060 | 944 | 47 | 42 | 25-116 | 11 | |
| 2,4,6-Tribromophenol (S) | % | | | | | | 67 | 55 | 27-110 | | |
| 2-Fluorobiphenyl (S) | % | | | | | | 37 | 32 | 30-110 | | |
| 2-Fluorophenol (S) | % | | | | | | 38 | 33 | 13-110 | | |
| Nitrobenzene-d5 (S) | % | | | | | | 39 | 36 | 23-110 | | |



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# QUALITY CONTROL DATA

Project: Volvo : Asheville
Pace Project No.: 9271695

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 459082 459083

| Parameter | Units | 9271856002 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Phenol-d6 (S) | % | | | | | | 40 | 36 | 22-110 | | |
| Terphenyl-d14 (S) | % | | | | | | 43 | 31 | 28-110 | | |



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# QUALITY CONTROL DATA

Project: Volvo : Asheville
Pace Project No.: 9271695

QC Batch: MSV/11397 Analysis Method: SM 6200B
QC Batch Method: SM 6200B Analysis Description: 6200B MSV
Associated Lab Samples: 9271695012, 9271695013, 9271695014, 9271695015

METHOD BLANK: 461874 Matrix: Water
Associated Lab Samples: 9271695012, 9271695013, 9271695014, 9271695015

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | ND | 0.50 | 06/25/10 16:53 | |
| 1,1,1-Trichloroethane | ug/L | ND | 0.50 | 06/25/10 16:53 | |
| 1,1,2,2-Tetrachloroethane | ug/L | ND | 0.50 | 06/25/10 16:53 | |
| 1,1,2-Trichloroethane | ug/L | ND | 0.50 | 06/25/10 16:53 | |
| 1,1-Dichloroethane | ug/L | ND | 0.50 | 06/25/10 16:53 | |
| 1,1-Dichloroethene | ug/L | ND | 0.50 | 06/25/10 16:53 | |
| 1,1-Dichloropropene | ug/L | ND | 0.50 | 06/25/10 16:53 | |
| 1,2,3-Trichlorobenzene | ug/L | ND | 2.0 | 06/25/10 16:53 | |
| 1,2,3-Trichloropropane | ug/L | ND | 0.50 | 06/25/10 16:53 | |
| 1,2,4-Trichlorobenzene | ug/L | ND | 2.0 | 06/25/10 16:53 | |
| 1,2,4-Trimethylbenzene | ug/L | ND | 0.50 | 06/25/10 16:53 | |
| 1,2-Dibromo-3-chloropropane | ug/L | ND | 1.0 | 06/25/10 16:53 | |
| 1,2-Dibromoethane (EDB) | ug/L | ND | 0.50 | 06/25/10 16:53 | |
| 1,2-Dichlorobenzene | ug/L | ND | 0.50 | 06/25/10 16:53 | |
| 1,2-Dichloroethane | ug/L | ND | 0.50 | 06/25/10 16:53 | |
| 1,2-Dichloropropane | ug/L | ND | 0.50 | 06/25/10 16:53 | |
| 1,3,5-Trimethylbenzene | ug/L | ND | 0.50 | 06/25/10 16:53 | |
| 1,3-Dichlorobenzene | ug/L | ND | 0.50 | 06/25/10 16:53 | |
| 1,3-Dichloropropane | ug/L | ND | 0.50 | 06/25/10 16:53 | |
| 1,4-Dichlorobenzene | ug/L | ND | 0.50 | 06/25/10 16:53 | |
| 2,2-Dichloropropane | ug/L | ND | 0.50 | 06/25/10 16:53 | |
| 2-Chlorotoluene | ug/L | ND | 0.50 | 06/25/10 16:53 | |
| 4-Chlorotoluene | ug/L | ND | 0.50 | 06/25/10 16:53 | |
| Benzene | ug/L | ND | 0.50 | 06/25/10 16:53 | |
| Bromobenzene | ug/L | ND | 0.50 | 06/25/10 16:53 | |
| Bromochloromethane | ug/L | ND | 0.50 | 06/25/10 16:53 | |
| Bromodichloromethane | ug/L | ND | 0.50 | 06/25/10 16:53 | |
| Bromoform | ug/L | ND | 0.50 | 06/25/10 16:53 | |
| Bromomethane | ug/L | ND | 5.0 | 06/25/10 16:53 | |
| Carbon tetrachloride | ug/L | ND | 0.50 | 06/25/10 16:53 | |
| Chlorobenzene | ug/L | ND | 0.50 | 06/25/10 16:53 | |
| Chloroethane | ug/L | ND | 1.0 | 06/25/10 16:53 | |
| Chloroform | ug/L | ND | 0.50 | 06/25/10 16:53 | |
| Chloromethane | ug/L | ND | 1.0 | 06/25/10 16:53 | |
| cis-1,2-Dichloroethene | ug/L | ND | 0.50 | 06/25/10 16:53 | |
| cis-1,3-Dichloropropene | ug/L | ND | 0.50 | 06/25/10 16:53 | |
| Dibromochloromethane | ug/L | ND | 0.50 | 06/25/10 16:53 | |
| Dibromomethane | ug/L | ND | 0.50 | 06/25/10 16:53 | |
| Dichlorodifluoromethane | ug/L | ND | 0.50 | 06/25/10 16:53 | |
| Diisopropyl ether | ug/L | ND | 0.50 | 06/25/10 16:53 | |
| Ethylbenzene | ug/L | ND | 0.50 | 06/25/10 16:53 | |
| Hexachloro-1,3-butadiene | ug/L | ND | 2.0 | 06/25/10 16:53 | |
| Isopropylbenzene (Cumene) | ug/L | ND | 0.50 | 06/25/10 16:53 | |



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# QUALITY CONTROL DATA

Project: Volvo : Asheville
Pace Project No.: 9271695

METHOD BLANK: 461874 Matrix: Water

Associated Lab Samples: 9271695012, 9271695013, 9271695014, 9271695015

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| m&p-Xylene | ug/L | ND | 1.0 | 06/25/10 16:53 | |
| Methyl-tert-butyl ether | ug/L | ND | 0.50 | 06/25/10 16:53 | |
| Methylene Chloride | ug/L | ND | 2.0 | 06/25/10 16:53 | |
| n-Butylbenzene | ug/L | ND | 0.50 | 06/25/10 16:53 | |
| n-Propylbenzene | ug/L | ND | 0.50 | 06/25/10 16:53 | |
| Naphthalene | ug/L | ND | 2.0 | 06/25/10 16:53 | |
| o-Xylene | ug/L | ND | 0.50 | 06/25/10 16:53 | |
| sec-Butylbenzene | ug/L | ND | 0.50 | 06/25/10 16:53 | |
| Styrene | ug/L | ND | 0.50 | 06/25/10 16:53 | |
| tert-Butylbenzene | ug/L | ND | 0.50 | 06/25/10 16:53 | |
| Tetrachloroethene | ug/L | ND | 0.50 | 06/25/10 16:53 | |
| Toluene | ug/L | ND | 0.50 | 06/25/10 16:53 | |
| trans-1,2-Dichloroethene | ug/L | ND | 0.50 | 06/25/10 16:53 | |
| trans-1,3-Dichloropropene | ug/L | ND | 0.50 | 06/25/10 16:53 | |
| Trichloroethene | ug/L | ND | 0.50 | 06/25/10 16:53 | |
| Trichlorofluoromethane | ug/L | ND | 1.0 | 06/25/10 16:53 | |
| Vinyl chloride | ug/L | ND | 1.0 | 06/25/10 16:53 | |
| 1,2-Dichloroethane-d4 (S) | % | 102 | 70-130 | 06/25/10 16:53 | |
| 4-Bromofluorobenzene (S) | % | 96 | 70-130 | 06/25/10 16:53 | |
| Dibromofluoromethane (S) | % | 103 | 70-130 | 06/25/10 16:53 | |
| Toluene-d8 (S) | % | 100 | 70-130 | 06/25/10 16:53 | |

METHOD BLANK: 462487 Matrix: Water

Associated Lab Samples: 9271695012, 9271695013, 9271695014, 9271695015

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | ND | 0.50 | 06/28/10 13:37 | |
| 1,1,1-Trichloroethane | ug/L | ND | 0.50 | 06/28/10 13:37 | |
| 1,1,2,2-Tetrachloroethane | ug/L | ND | 0.50 | 06/28/10 13:37 | |
| 1,1,2-Trichloroethane | ug/L | ND | 0.50 | 06/28/10 13:37 | |
| 1,1-Dichloroethane | ug/L | ND | 0.50 | 06/28/10 13:37 | |
| 1,1-Dichloroethene | ug/L | ND | 0.50 | 06/28/10 13:37 | |
| 1,1-Dichloropropene | ug/L | ND | 0.50 | 06/28/10 13:37 | |
| 1,2,3-Trichlorobenzene | ug/L | ND | 2.0 | 06/28/10 13:37 | |
| 1,2,3-Trichloropropane | ug/L | ND | 0.50 | 06/28/10 13:37 | |
| 1,2,4-Trichlorobenzene | ug/L | ND | 2.0 | 06/28/10 13:37 | |
| 1,2,4-Trimethylbenzene | ug/L | ND | 0.50 | 06/28/10 13:37 | |
| 1,2-Dibromo-3-chloropropane | ug/L | ND | 1.0 | 06/28/10 13:37 | |
| 1,2-Dibromoethane (EDB) | ug/L | ND | 0.50 | 06/28/10 13:37 | |
| 1,2-Dichlorobenzene | ug/L | ND | 0.50 | 06/28/10 13:37 | |
| 1,2-Dichloroethane | ug/L | ND | 0.50 | 06/28/10 13:37 | |
| 1,2-Dichloropropane | ug/L | ND | 0.50 | 06/28/10 13:37 | |
| 1,3,5-Trimethylbenzene | ug/L | ND | 0.50 | 06/28/10 13:37 | |
| 1,3-Dichlorobenzene | ug/L | ND | 0.50 | 06/28/10 13:37 | |
| 1,3-Dichloropropane | ug/L | ND | 0.50 | 06/28/10 13:37 | |



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# QUALITY CONTROL DATA

Project: Volvo : Asheville
Pace Project No.: 9271695

METHOD BLANK: 462487 Matrix: Water

Associated Lab Samples: 9271695012, 9271695013, 9271695014, 9271695015

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| 1,4-Dichlorobenzene | ug/L | ND | 0.50 | 06/28/10 13:37 | |
| 2,2-Dichloropropane | ug/L | ND | 0.50 | 06/28/10 13:37 | |
| 2-Chlorotoluene | ug/L | ND | 0.50 | 06/28/10 13:37 | |
| 4-Chlorotoluene | ug/L | ND | 0.50 | 06/28/10 13:37 | |
| Benzene | ug/L | ND | 0.50 | 06/28/10 13:37 | |
| Bromobenzene | ug/L | ND | 0.50 | 06/28/10 13:37 | |
| Bromochloromethane | ug/L | ND | 0.50 | 06/28/10 13:37 | |
| Bromodichloromethane | ug/L | ND | 0.50 | 06/28/10 13:37 | |
| Bromoform | ug/L | ND | 0.50 | 06/28/10 13:37 | |
| Bromomethane | ug/L | ND | 5.0 | 06/28/10 13:37 | |
| Carbon tetrachloride | ug/L | ND | 0.50 | 06/28/10 13:37 | |
| Chlorobenzene | ug/L | ND | 0.50 | 06/28/10 13:37 | |
| Chloroethane | ug/L | ND | 1.0 | 06/28/10 13:37 | |
| Chloroform | ug/L | ND | 0.50 | 06/28/10 13:37 | |
| Chloromethane | ug/L | ND | 1.0 | 06/28/10 13:37 | |
| cis-1,2-Dichloroethene | ug/L | ND | 0.50 | 06/28/10 13:37 | |
| cis-1,3-Dichloropropene | ug/L | ND | 0.50 | 06/28/10 13:37 | |
| Dibromochloromethane | ug/L | ND | 0.50 | 06/28/10 13:37 | |
| Dibromomethane | ug/L | ND | 0.50 | 06/28/10 13:37 | |
| Dichlorodifluoromethane | ug/L | ND | 0.50 | 06/28/10 13:37 | |
| Diisopropyl ether | ug/L | ND | 0.50 | 06/28/10 13:37 | |
| Ethylbenzene | ug/L | ND | 0.50 | 06/28/10 13:37 | |
| Hexachloro-1,3-butadiene | ug/L | ND | 2.0 | 06/28/10 13:37 | |
| Isopropylbenzene (Cumene) | ug/L | ND | 0.50 | 06/28/10 13:37 | |
| m&p-Xylene | ug/L | ND | 1.0 | 06/28/10 13:37 | |
| Methyl-tert-butyl ether | ug/L | ND | 0.50 | 06/28/10 13:37 | |
| Methylene Chloride | ug/L | ND | 2.0 | 06/28/10 13:37 | |
| n-Butylbenzene | ug/L | ND | 0.50 | 06/28/10 13:37 | |
| n-Propylbenzene | ug/L | ND | 0.50 | 06/28/10 13:37 | |
| Naphthalene | ug/L | ND | 2.0 | 06/28/10 13:37 | |
| o-Xylene | ug/L | ND | 0.50 | 06/28/10 13:37 | |
| sec-Butylbenzene | ug/L | ND | 0.50 | 06/28/10 13:37 | |
| Styrene | ug/L | ND | 0.50 | 06/28/10 13:37 | |
| tert-Butylbenzene | ug/L | ND | 0.50 | 06/28/10 13:37 | |
| Tetrachloroethene | ug/L | ND | 0.50 | 06/28/10 13:37 | |
| Toluene | ug/L | ND | 0.50 | 06/28/10 13:37 | |
| trans-1,2-Dichloroethene | ug/L | ND | 0.50 | 06/28/10 13:37 | |
| trans-1,3-Dichloropropene | ug/L | ND | 0.50 | 06/28/10 13:37 | |
| Trichloroethene | ug/L | ND | 0.50 | 06/28/10 13:37 | |
| Trichlorofluoromethane | ug/L | ND | 1.0 | 06/28/10 13:37 | |
| Vinyl chloride | ug/L | ND | 1.0 | 06/28/10 13:37 | |
| 1,2-Dichloroethane-d4 (S) | % | 105 | 70-130 | 06/28/10 13:37 | |
| 4-Bromofluorobenzene (S) | % | 92 | 70-130 | 06/28/10 13:37 | |
| Dibromofluoromethane (S) | % | 104 | 70-130 | 06/28/10 13:37 | |
| Toluene-d8 (S) | % | 101 | 70-130 | 06/28/10 13:37 | |



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# QUALITY CONTROL DATA

Project: Volvo : Asheville
Pace Project No.: 9271695

LABORATORY CONTROL SAMPLE: 461875

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | 50 | 51.1 | 102 | 60-140 | |
| 1,1,1-Trichloroethane | ug/L | 50 | 45.2 | 90 | 60-140 | |
| 1,1,2,2-Tetrachloroethane | ug/L | 50 | 47.4 | 95 | 60-140 | |
| 1,1,2-Trichloroethane | ug/L | 50 | 47.8 | 96 | 60-140 | |
| 1,1-Dichloroethane | ug/L | 50 | 44.7 | 89 | 60-140 | |
| 1,1-Dichloroethene | ug/L | 50 | 47.3 | 95 | 60-140 | |
| 1,1-Dichloropropene | ug/L | 50 | 44.6 | 89 | 60-140 | |
| 1,2,3-Trichlorobenzene | ug/L | 50 | 47.5 | 95 | 60-140 | |
| 1,2,3-Trichloropropane | ug/L | 50 | 44.2 | 88 | 60-140 | |
| 1,2,4-Trichlorobenzene | ug/L | 50 | 48.0 | 96 | 60-140 | |
| 1,2,4-Trimethylbenzene | ug/L | 50 | 48.5 | 97 | 60-140 | |
| 1,2-Dibromo-3-chloropropane | ug/L | 50 | 51.7 | 103 | 60-140 | |
| 1,2-Dibromoethane (EDB) | ug/L | 50 | 47.7 | 95 | 60-140 | |
| 1,2-Dichlorobenzene | ug/L | 50 | 45.1 | 90 | 60-140 | |
| 1,2-Dichloroethane | ug/L | 50 | 47.0 | 94 | 60-140 | |
| 1,2-Dichloropropane | ug/L | 50 | 45.5 | 91 | 60-140 | |
| 1,3,5-Trimethylbenzene | ug/L | 50 | 47.8 | 96 | 60-140 | |
| 1,3-Dichlorobenzene | ug/L | 50 | 45.6 | 91 | 60-140 | |
| 1,3-Dichloropropane | ug/L | 50 | 46.5 | 93 | 60-140 | |
| 1,4-Dichlorobenzene | ug/L | 50 | 43.6 | 87 | 60-140 | |
| 2,2-Dichloropropane | ug/L | 50 | 44.2 | 88 | 60-140 | |
| 2-Chlorotoluene | ug/L | 50 | 44.8 | 90 | 60-140 | |
| 4-Chlorotoluene | ug/L | 50 | 46.5 | 93 | 60-140 | |
| Benzene | ug/L | 50 | 45.6 | 91 | 60-140 | |
| Bromobenzene | ug/L | 50 | 43.7 | 87 | 60-140 | |
| Bromochloromethane | ug/L | 50 | 46.2 | 92 | 60-140 | |
| Bromodichloromethane | ug/L | 50 | 47.4 | 95 | 60-140 | |
| Bromoform | ug/L | 50 | 50.9 | 102 | 60-140 | |
| Bromomethane | ug/L | 50 | 46.2 | 92 | 60-140 | |
| Carbon tetrachloride | ug/L | 50 | 49.1 | 98 | 60-140 | |
| Chlorobenzene | ug/L | 50 | 47.2 | 94 | 60-140 | |
| Chloroethane | ug/L | 50 | 49.8 | 100 | 60-140 | |
| Chloroform | ug/L | 50 | 43.7 | 87 | 60-140 | |
| Chloromethane | ug/L | 50 | 40.1 | 80 | 60-140 | |
| cis-1,2-Dichloroethene | ug/L | 50 | 47.1 | 94 | 60-140 | |
| cis-1,3-Dichloropropene | ug/L | 50 | 47.5 | 95 | 60-140 | |
| Dibromochloromethane | ug/L | 50 | 46.5 | 93 | 60-140 | |
| Dibromomethane | ug/L | 50 | 48.9 | 98 | 60-140 | |
| Dichlorodifluoromethane | ug/L | 50 | 38.3 | 77 | 60-140 | |
| Diisopropyl ether | ug/L | 50 | 45.0 | 90 | 60-140 | |
| Ethylbenzene | ug/L | 50 | 47.4 | 95 | 60-140 | |
| Hexachloro-1,3-butadiene | ug/L | 50 | 47.7 | 95 | 60-140 | |
| Isopropylbenzene (Cumene) | ug/L | 50 | 52.0 | 104 | 60-140 | |
| m&p-Xylene | ug/L | 100 | 100 | 100 | 60-140 | |
| Methyl-tert-butyl ether | ug/L | 50 | 45.0 | 90 | 60-140 | |
| Methylene Chloride | ug/L | 50 | 44.1 | 88 | 60-140 | |
| n-Butylbenzene | ug/L | 50 | 47.4 | 95 | 60-140 | |
| n-Propylbenzene | ug/L | 50 | 46.7 | 93 | 60-140 | |



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# QUALITY CONTROL DATA

Project: Volvo : Asheville
Pace Project No.: 9271695

LABORATORY CONTROL SAMPLE: 461875

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Naphthalene | ug/L | 50 | 50.2 | 100 | 60-140 | |
| o-Xylene | ug/L | 50 | 50.5 | 101 | 60-140 | |
| sec-Butylbenzene | ug/L | 50 | 48.9 | 98 | 60-140 | |
| Styrene | ug/L | 50 | 51.4 | 103 | 60-140 | |
| tert-Butylbenzene | ug/L | 50 | 50.1 | 100 | 60-140 | |
| Tetrachloroethene | ug/L | 50 | 48.5 | 97 | 60-140 | |
| Toluene | ug/L | 50 | 44.9 | 90 | 60-140 | |
| trans-1,2-Dichloroethene | ug/L | 50 | 44.6 | 89 | 60-140 | |
| trans-1,3-Dichloropropene | ug/L | 50 | 48.2 | 96 | 60-140 | |
| Trichloroethene | ug/L | 50 | 50.8 | 102 | 60-140 | |
| Trichlorofluoromethane | ug/L | 50 | 44.6 | 89 | 60-140 | |
| Vinyl chloride | ug/L | 50 | 40.2 | 80 | 60-140 | |
| 1,2-Dichloroethane-d4 (S) | % | | | 95 | 70-130 | |
| 4-Bromofluorobenzene (S) | % | | | 105 | 70-130 | |
| Dibromofluoromethane (S) | % | | | 97 | 70-130 | |
| Toluene-d8 (S) | % | | | 101 | 70-130 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 462488 462489

| Parameter | Units | 9271860003 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | ND | 20 | 20 | 21.4 | 22.9 | 107 | 114 | 60-140 | 7 | |
| 1,1,1-Trichloroethane | ug/L | ND | 20 | 20 | 18.7 | 20.2 | 94 | 101 | 60-140 | 8 | |
| 1,1,2,2-Tetrachloroethane | ug/L | ND | 20 | 20 | 18.3 | 20.2 | 92 | 101 | 60-140 | 10 | |
| 1,1,2-Trichloroethane | ug/L | ND | 20 | 20 | 19.0 | 20.7 | 95 | 103 | 60-140 | 9 | |
| 1,1-Dichloroethane | ug/L | ND | 20 | 20 | 17.5 | 19.4 | 87 | 97 | 60-140 | 10 | |
| 1,1-Dichloroethene | ug/L | ND | 20 | 20 | 19.4 | 21.1 | 97 | 106 | 60-140 | 8 | |
| 1,1-Dichloropropene | ug/L | ND | 20 | 20 | 17.8 | 19.8 | 89 | 99 | 60-140 | 11 | |
| 1,2,3-Trichlorobenzene | ug/L | ND | 20 | 20 | 18.5 | 20.6 | 93 | 103 | 60-140 | 11 | |
| 1,2,3-Trichloropropane | ug/L | ND | 20 | 20 | 17.5 | 19.4 | 87 | 97 | 60-140 | 10 | |
| 1,2,4-Trichlorobenzene | ug/L | ND | 20 | 20 | 18.9 | 20.9 | 94 | 104 | 60-140 | 10 | |
| 1,2,4-Trimethylbenzene | ug/L | ND | 20 | 20 | 20.8 | 22.4 | 104 | 112 | 60-140 | 8 | |
| 1,2-Dibromo-3-chloropropane | ug/L | ND | 20 | 20 | 16.8 | 19.9 | 84 | 99 | 60-140 | 17 | |
| 1,2-Dibromoethane (EDB) | ug/L | ND | 20 | 20 | 19.2 | 21.4 | 96 | 107 | 60-140 | 11 | |
| 1,2-Dichlorobenzene | ug/L | ND | 20 | 20 | 19.3 | 20.4 | 96 | 102 | 60-140 | 6 | |
| 1,2-Dichloroethane | ug/L | ND | 20 | 20 | 18.1 | 20.1 | 91 | 101 | 60-140 | 10 | |
| 1,2-Dichloropropane | ug/L | ND | 20 | 20 | 17.8 | 19.1 | 89 | 96 | 60-140 | 7 | |
| 1,3,5-Trimethylbenzene | ug/L | ND | 20 | 20 | 20.5 | 22.3 | 103 | 111 | 60-140 | 8 | |
| 1,3-Dichlorobenzene | ug/L | ND | 20 | 20 | 19.6 | 20.9 | 98 | 104 | 60-140 | 6 | |
| 1,3-Dichloropropane | ug/L | ND | 20 | 20 | 19.2 | 20.1 | 96 | 100 | 60-140 | 4 | |
| 1,4-Dichlorobenzene | ug/L | ND | 20 | 20 | 18.5 | 19.9 | 93 | 100 | 60-140 | 7 | |
| 2,2-Dichloropropane | ug/L | ND | 20 | 20 | 18.1 | 20.0 | 91 | 100 | 60-140 | 10 | |
| 2-Chlorotoluene | ug/L | ND | 20 | 20 | 19.4 | 20.9 | 97 | 105 | 60-140 | 7 | |
| 4-Chlorotoluene | ug/L | ND | 20 | 20 | 20.0 | 21.4 | 100 | 107 | 60-140 | 7 | |
| Benzene | ug/L | ND | 20 | 20 | 18.5 | 19.9 | 92 | 100 | 60-140 | 8 | |
| Bromobenzene | ug/L | ND | 20 | 20 | 18.8 | 19.9 | 94 | 100 | 60-140 | 6 | |
| Bromochloromethane | ug/L | ND | 20 | 20 | 19.3 | 21.0 | 96 | 105 | 60-140 | 9 | |



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# QUALITY CONTROL DATA

Project: Volvo : Asheville
Pace Project No.: 9271695

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 462488 462489

| Parameter | Units | 9271860003 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Bromodichloromethane | ug/L | ND | 20 | 20 | 18.3 | 20.1 | 91 | 101 | 60-140 | 10 | |
| Bromoform | ug/L | ND | 20 | 20 | 18.8 | 21.2 | 94 | 106 | 60-140 | 12 | |
| Bromomethane | ug/L | ND | 20 | 20 | 12.8 | 15.0 | 64 | 75 | 60-140 | 16 | |
| Carbon tetrachloride | ug/L | ND | 20 | 20 | 20.6 | 22.3 | 103 | 112 | 60-140 | 8 | |
| Chlorobenzene | ug/L | ND | 20 | 20 | 20.5 | 22.0 | 103 | 110 | 60-140 | 7 | |
| Chloroethane | ug/L | ND | 20 | 20 | 23.2 | 23.9 | 116 | 120 | 60-140 | 3 | |
| Chloroform | ug/L | ND | 20 | 20 | 17.4 | 19.1 | 87 | 96 | 60-140 | 9 | |
| Chloromethane | ug/L | ND | 20 | 20 | 15.3 | 16.0 | 74 | 78 | 60-140 | 4 | |
| cis-1,2-Dichloroethene | ug/L | ND | 20 | 20 | 18.0 | 20.0 | 90 | 100 | 60-140 | 11 | |
| cis-1,3-Dichloropropene | ug/L | ND | 20 | 20 | 17.5 | 19.2 | 87 | 96 | 60-140 | 10 | |
| Dibromochloromethane | ug/L | ND | 20 | 20 | 19.1 | 20.7 | 96 | 104 | 60-140 | 8 | |
| Dibromomethane | ug/L | ND | 20 | 20 | 20.0 | 21.8 | 100 | 109 | 60-140 | 9 | |
| Dichlorodifluoromethane | ug/L | ND | 20 | 20 | 15.2 | 16.8 | 76 | 84 | 60-140 | 10 | |
| Diisopropyl ether | ug/L | ND | 20 | 20 | 16.7 | 18.3 | 84 | 92 | 60-140 | 9 | |
| Ethylbenzene | ug/L | ND | 20 | 20 | 20.3 | 21.8 | 102 | 109 | 60-140 | 7 | |
| Hexachloro-1,3-butadiene | ug/L | ND | 20 | 20 | 19.5 | 22.1 | 98 | 111 | 60-140 | 13 | |
| Isopropylbenzene (Cumene) | ug/L | ND | 20 | 20 | 22.1 | 23.3 | 111 | 117 | 60-140 | 5 | |
| m&p-Xylene | ug/L | ND | 40 | 40 | 43.1 | 46.0 | 108 | 115 | 60-140 | 7 | |
| Methyl-tert-butyl ether | ug/L | ND | 20 | 20 | 16.8 | 18.8 | 84 | 94 | 60-140 | 11 | |
| Methylene Chloride | ug/L | ND | 20 | 20 | 12.2 | 13.7 | 61 | 69 | 60-140 | 12 | |
| n-Butylbenzene | ug/L | ND | 20 | 20 | 20.4 | 21.7 | 102 | 109 | 60-140 | 7 | |
| n-Propylbenzene | ug/L | ND | 20 | 20 | 20.6 | 22.5 | 103 | 112 | 60-140 | 9 | |
| Naphthalene | ug/L | ND | 20 | 20 | 18.4 | 20.7 | 92 | 103 | 60-140 | 12 | |
| o-Xylene | ug/L | ND | 20 | 20 | 21.3 | 23.1 | 107 | 115 | 60-140 | 8 | |
| sec-Butylbenzene | ug/L | ND | 20 | 20 | 21.0 | 22.9 | 105 | 115 | 60-140 | 9 | |
| Styrene | ug/L | ND | 20 | 20 | 21.4 | 22.7 | 107 | 114 | 60-140 | 6 | |
| tert-Butylbenzene | ug/L | ND | 20 | 20 | 21.5 | 23.4 | 107 | 117 | 60-140 | 8 | |
| Tetrachloroethene | ug/L | ND | 20 | 20 | 22.1 | 23.5 | 111 | 118 | 60-140 | 6 | |
| Toluene | ug/L | ND | 20 | 20 | 18.5 | 19.7 | 93 | 99 | 60-140 | 6 | |
| trans-1,2-Dichloroethene | ug/L | ND | 20 | 20 | 19.7 | 21.8 | 98 | 109 | 60-140 | 10 | |
| trans-1,3-Dichloropropene | ug/L | ND | 20 | 20 | 17.4 | 19.5 | 87 | 97 | 60-140 | 11 | |
| Trichloroethene | ug/L | ND | 20 | 20 | 21.8 | 23.4 | 109 | 117 | 60-140 | 7 | |
| Trichlorofluoromethane | ug/L | ND | 20 | 20 | 18.1 | 19.8 | 90 | 99 | 60-140 | 9 | |
| Vinyl chloride | ug/L | ND | 20 | 20 | 17.1 | 18.3 | 85 | 92 | 60-140 | 7 | |
| 1,2-Dichloroethane-d4 (S) | % | | | | | | 89 | 91 | 70-130 | | |
| 4-Bromofluorobenzene (S) | % | | | | | | 107 | 107 | 70-130 | | |
| Dibromofluoromethane (S) | % | | | | | | 93 | 95 | 70-130 | | |
| Toluene-d8 (S) | % | | | | | | 96 | 96 | 70-130 | | |



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# QUALITY CONTROL DATA

Project: Volvo : Asheville
Pace Project No.: 9271695

QC Batch: MSV/11361 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 9271695006, 9271695007, 9271695008, 9271695009, 9271695010, 9271695011

METHOD BLANK: 460138 Matrix: Solid
Associated Lab Samples: 9271695006, 9271695007, 9271695008, 9271695009, 9271695010, 9271695011

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/kg | ND | 5.0 | 06/23/10 11:45 | |
| 1,1,1-Trichloroethane | ug/kg | ND | 5.0 | 06/23/10 11:45 | |
| 1,1,2,2-Tetrachloroethane | ug/kg | ND | 5.0 | 06/23/10 11:45 | |
| 1,1,2-Trichloroethane | ug/kg | ND | 5.0 | 06/23/10 11:45 | |
| 1,1-Dichloroethane | ug/kg | ND | 5.0 | 06/23/10 11:45 | |
| 1,1-Dichloroethene | ug/kg | ND | 5.0 | 06/23/10 11:45 | |
| 1,1-Dichloropropene | ug/kg | ND | 5.0 | 06/23/10 11:45 | |
| 1,2,3-Trichlorobenzene | ug/kg | ND | 5.0 | 06/23/10 11:45 | |
| 1,2,3-Trichloropropane | ug/kg | ND | 5.0 | 06/23/10 11:45 | |
| 1,2,4-Trichlorobenzene | ug/kg | ND | 5.0 | 06/23/10 11:45 | |
| 1,2,4-Trimethylbenzene | ug/kg | ND | 5.0 | 06/23/10 11:45 | |
| 1,2-Dibromo-3-chloropropane | ug/kg | ND | 5.0 | 06/23/10 11:45 | |
| 1,2-Dibromoethane (EDB) | ug/kg | ND | 5.0 | 06/23/10 11:45 | |
| 1,2-Dichlorobenzene | ug/kg | ND | 5.0 | 06/23/10 11:45 | |
| 1,2-Dichloroethane | ug/kg | ND | 5.0 | 06/23/10 11:45 | |
| 1,2-Dichloropropane | ug/kg | ND | 5.0 | 06/23/10 11:45 | |
| 1,3,5-Trimethylbenzene | ug/kg | ND | 5.0 | 06/23/10 11:45 | |
| 1,3-Dichlorobenzene | ug/kg | ND | 5.0 | 06/23/10 11:45 | |
| 1,3-Dichloropropane | ug/kg | ND | 5.0 | 06/23/10 11:45 | |
| 1,4-Dichlorobenzene | ug/kg | ND | 5.0 | 06/23/10 11:45 | |
| 2,2-Dichloropropane | ug/kg | ND | 5.0 | 06/23/10 11:45 | |
| 2-Butanone (MEK) | ug/kg | ND | 100 | 06/23/10 11:45 | |
| 2-Chlorotoluene | ug/kg | ND | 5.0 | 06/23/10 11:45 | |
| 2-Hexanone | ug/kg | ND | 50.0 | 06/23/10 11:45 | |
| 4-Chlorotoluene | ug/kg | ND | 5.0 | 06/23/10 11:45 | |
| 4-Methyl-2-pentanone (MIBK) | ug/kg | ND | 50.0 | 06/23/10 11:45 | |
| Acetone | ug/kg | ND | 100 | 06/23/10 11:45 | |
| Benzene | ug/kg | ND | 5.0 | 06/23/10 11:45 | |
| Bromobenzene | ug/kg | ND | 5.0 | 06/23/10 11:45 | |
| Bromochloromethane | ug/kg | ND | 5.0 | 06/23/10 11:45 | |
| Bromodichloromethane | ug/kg | ND | 5.0 | 06/23/10 11:45 | |
| Bromoform | ug/kg | ND | 5.0 | 06/23/10 11:45 | |
| Bromomethane | ug/kg | ND | 10.0 | 06/23/10 11:45 | |
| Carbon tetrachloride | ug/kg | ND | 5.0 | 06/23/10 11:45 | |
| Chlorobenzene | ug/kg | ND | 5.0 | 06/23/10 11:45 | |
| Chloroethane | ug/kg | ND | 10.0 | 06/23/10 11:45 | |
| Chloroform | ug/kg | ND | 5.0 | 06/23/10 11:45 | |
| Chloromethane | ug/kg | ND | 10.0 | 06/23/10 11:45 | |
| cis-1,2-Dichloroethene | ug/kg | ND | 5.0 | 06/23/10 11:45 | |
| cis-1,3-Dichloropropene | ug/kg | ND | 5.0 | 06/23/10 11:45 | |
| Dibromochloromethane | ug/kg | ND | 5.0 | 06/23/10 11:45 | |
| Dibromomethane | ug/kg | ND | 5.0 | 06/23/10 11:45 | |
| Dichlorodifluoromethane | ug/kg | ND | 10.0 | 06/23/10 11:45 | |



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# QUALITY CONTROL DATA

Project: Volvo : Asheville
Pace Project No.: 9271695

METHOD BLANK: 460138 Matrix: Solid

Associated Lab Samples: 9271695006, 9271695007, 9271695008, 9271695009, 9271695010, 9271695011

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Diisopropyl ether | ug/kg | ND | 5.0 | 06/23/10 11:45 | |
| Ethylbenzene | ug/kg | ND | 5.0 | 06/23/10 11:45 | |
| Hexachloro-1,3-butadiene | ug/kg | ND | 5.0 | 06/23/10 11:45 | |
| Isopropylbenzene (Cumene) | ug/kg | ND | 5.0 | 06/23/10 11:45 | |
| m&p-Xylene | ug/kg | ND | 10.0 | 06/23/10 11:45 | |
| Methyl-tert-butyl ether | ug/kg | ND | 5.0 | 06/23/10 11:45 | |
| Methylene Chloride | ug/kg | ND | 20.0 | 06/23/10 11:45 | |
| n-Butylbenzene | ug/kg | ND | 5.0 | 06/23/10 11:45 | |
| n-Propylbenzene | ug/kg | ND | 5.0 | 06/23/10 11:45 | |
| Naphthalene | ug/kg | ND | 5.0 | 06/23/10 11:45 | |
| o-Xylene | ug/kg | ND | 5.0 | 06/23/10 11:45 | |
| p-Isopropyltoluene | ug/kg | ND | 5.0 | 06/23/10 11:45 | |
| sec-Butylbenzene | ug/kg | ND | 5.0 | 06/23/10 11:45 | |
| Styrene | ug/kg | ND | 5.0 | 06/23/10 11:45 | |
| tert-Butylbenzene | ug/kg | ND | 5.0 | 06/23/10 11:45 | |
| Tetrachloroethene | ug/kg | ND | 5.0 | 06/23/10 11:45 | |
| Toluene | ug/kg | ND | 5.0 | 06/23/10 11:45 | |
| trans-1,2-Dichloroethene | ug/kg | ND | 5.0 | 06/23/10 11:45 | |
| trans-1,3-Dichloropropene | ug/kg | ND | 5.0 | 06/23/10 11:45 | |
| Trichloroethene | ug/kg | ND | 5.0 | 06/23/10 11:45 | |
| Trichlorofluoromethane | ug/kg | ND | 5.0 | 06/23/10 11:45 | |
| Vinyl acetate | ug/kg | ND | 50.0 | 06/23/10 11:45 | |
| Vinyl chloride | ug/kg | ND | 10.0 | 06/23/10 11:45 | |
| Xylene (Total) | ug/kg | ND | 10.0 | 06/23/10 11:45 | |
| 1,2-Dichloroethane-d4 (S) | % | 104 | 70-132 | 06/23/10 11:45 | |
| 4-Bromofluorobenzene (S) | % | 95 | 70-130 | 06/23/10 11:45 | |
| Dibromofluoromethane (S) | % | 103 | 70-130 | 06/23/10 11:45 | |
| Toluene-d8 (S) | % | 101 | 70-130 | 06/23/10 11:45 | |

METHOD BLANK: 460627 Matrix: Solid

Associated Lab Samples: 9271695006, 9271695007, 9271695008, 9271695009, 9271695010, 9271695011

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/kg | ND | 5.0 | 06/24/10 12:44 | |
| 1,1,1-Trichloroethane | ug/kg | ND | 5.0 | 06/24/10 12:44 | |
| 1,1,2,2-Tetrachloroethane | ug/kg | ND | 5.0 | 06/24/10 12:44 | |
| 1,1,2-Trichloroethane | ug/kg | ND | 5.0 | 06/24/10 12:44 | |
| 1,1-Dichloroethane | ug/kg | ND | 5.0 | 06/24/10 12:44 | |
| 1,1-Dichloroethene | ug/kg | ND | 5.0 | 06/24/10 12:44 | |
| 1,1-Dichloropropene | ug/kg | ND | 5.0 | 06/24/10 12:44 | |
| 1,2,3-Trichlorobenzene | ug/kg | ND | 5.0 | 06/24/10 12:44 | |
| 1,2,3-Trichloropropane | ug/kg | ND | 5.0 | 06/24/10 12:44 | |
| 1,2,4-Trichlorobenzene | ug/kg | ND | 5.0 | 06/24/10 12:44 | |
| 1,2,4-Trimethylbenzene | ug/kg | ND | 5.0 | 06/24/10 12:44 | |
| 1,2-Dibromo-3-chloropropane | ug/kg | ND | 5.0 | 06/24/10 12:44 | |



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# QUALITY CONTROL DATA

Project: Volvo : Asheville
Pace Project No.: 9271695

METHOD BLANK: 460627 Matrix: Solid

Associated Lab Samples: 9271695006, 9271695007, 9271695008, 9271695009, 9271695010, 9271695011

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| 1,2-Dibromoethane (EDB) | ug/kg | ND | 5.0 | 06/24/10 12:44 | |
| 1,2-Dichlorobenzene | ug/kg | ND | 5.0 | 06/24/10 12:44 | |
| 1,2-Dichloroethane | ug/kg | ND | 5.0 | 06/24/10 12:44 | |
| 1,2-Dichloropropane | ug/kg | ND | 5.0 | 06/24/10 12:44 | |
| 1,3,5-Trimethylbenzene | ug/kg | ND | 5.0 | 06/24/10 12:44 | |
| 1,3-Dichlorobenzene | ug/kg | ND | 5.0 | 06/24/10 12:44 | |
| 1,3-Dichloropropane | ug/kg | ND | 5.0 | 06/24/10 12:44 | |
| 1,4-Dichlorobenzene | ug/kg | ND | 5.0 | 06/24/10 12:44 | |
| 2,2-Dichloropropane | ug/kg | ND | 5.0 | 06/24/10 12:44 | |
| 2-Butanone (MEK) | ug/kg | ND | 100 | 06/24/10 12:44 | |
| 2-Chlorotoluene | ug/kg | ND | 5.0 | 06/24/10 12:44 | |
| 2-Hexanone | ug/kg | ND | 50.0 | 06/24/10 12:44 | |
| 4-Chlorotoluene | ug/kg | ND | 5.0 | 06/24/10 12:44 | |
| 4-Methyl-2-pentanone (MIBK) | ug/kg | ND | 50.0 | 06/24/10 12:44 | |
| Acetone | ug/kg | ND | 100 | 06/24/10 12:44 | |
| Benzene | ug/kg | ND | 5.0 | 06/24/10 12:44 | |
| Bromobenzene | ug/kg | ND | 5.0 | 06/24/10 12:44 | |
| Bromochloromethane | ug/kg | ND | 5.0 | 06/24/10 12:44 | |
| Bromodichloromethane | ug/kg | ND | 5.0 | 06/24/10 12:44 | |
| Bromoform | ug/kg | ND | 5.0 | 06/24/10 12:44 | |
| Bromomethane | ug/kg | ND | 10.0 | 06/24/10 12:44 | |
| Carbon tetrachloride | ug/kg | ND | 5.0 | 06/24/10 12:44 | |
| Chlorobenzene | ug/kg | ND | 5.0 | 06/24/10 12:44 | |
| Chloroethane | ug/kg | ND | 10.0 | 06/24/10 12:44 | |
| Chloroform | ug/kg | ND | 5.0 | 06/24/10 12:44 | |
| Chloromethane | ug/kg | ND | 10.0 | 06/24/10 12:44 | |
| cis-1,2-Dichloroethene | ug/kg | ND | 5.0 | 06/24/10 12:44 | |
| cis-1,3-Dichloropropene | ug/kg | ND | 5.0 | 06/24/10 12:44 | |
| Dibromochloromethane | ug/kg | ND | 5.0 | 06/24/10 12:44 | |
| Dibromomethane | ug/kg | ND | 5.0 | 06/24/10 12:44 | |
| Dichlorodifluoromethane | ug/kg | ND | 10.0 | 06/24/10 12:44 | |
| Diisopropyl ether | ug/kg | ND | 5.0 | 06/24/10 12:44 | |
| Ethylbenzene | ug/kg | ND | 5.0 | 06/24/10 12:44 | |
| Hexachloro-1,3-butadiene | ug/kg | ND | 5.0 | 06/24/10 12:44 | |
| Isopropylbenzene (Cumene) | ug/kg | ND | 5.0 | 06/24/10 12:44 | |
| m&p-Xylene | ug/kg | ND | 10.0 | 06/24/10 12:44 | |
| Methyl-tert-butyl ether | ug/kg | ND | 5.0 | 06/24/10 12:44 | |
| Methylene Chloride | ug/kg | ND | 20.0 | 06/24/10 12:44 | |
| n-Butylbenzene | ug/kg | ND | 5.0 | 06/24/10 12:44 | |
| n-Propylbenzene | ug/kg | ND | 5.0 | 06/24/10 12:44 | |
| Naphthalene | ug/kg | ND | 5.0 | 06/24/10 12:44 | |
| o-Xylene | ug/kg | ND | 5.0 | 06/24/10 12:44 | |
| p-Isopropyltoluene | ug/kg | ND | 5.0 | 06/24/10 12:44 | |
| sec-Butylbenzene | ug/kg | ND | 5.0 | 06/24/10 12:44 | |
| Styrene | ug/kg | ND | 5.0 | 06/24/10 12:44 | |
| tert-Butylbenzene | ug/kg | ND | 5.0 | 06/24/10 12:44 | |
| Tetrachloroethene | ug/kg | ND | 5.0 | 06/24/10 12:44 | |



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# QUALITY CONTROL DATA

Project: Volvo : Asheville
Pace Project No.: 9271695

METHOD BLANK: 460627 Matrix: Solid

Associated Lab Samples: 9271695006, 9271695007, 9271695008, 9271695009, 9271695010, 9271695011

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Toluene | ug/kg | ND | 5.0 | 06/24/10 12:44 | |
| trans-1,2-Dichloroethene | ug/kg | ND | 5.0 | 06/24/10 12:44 | |
| trans-1,3-Dichloropropene | ug/kg | ND | 5.0 | 06/24/10 12:44 | |
| Trichloroethene | ug/kg | ND | 5.0 | 06/24/10 12:44 | |
| Trichlorofluoromethane | ug/kg | ND | 5.0 | 06/24/10 12:44 | |
| Vinyl acetate | ug/kg | ND | 50.0 | 06/24/10 12:44 | |
| Vinyl chloride | ug/kg | ND | 10.0 | 06/24/10 12:44 | |
| Xylene (Total) | ug/kg | ND | 10.0 | 06/24/10 12:44 | |
| 1,2-Dichloroethane-d4 (S) | % | 99 | 70-132 | 06/24/10 12:44 | |
| 4-Bromofluorobenzene (S) | % | 96 | 70-130 | 06/24/10 12:44 | |
| Dibromofluoromethane (S) | % | 103 | 70-130 | 06/24/10 12:44 | |
| Toluene-d8 (S) | % | 100 | 70-130 | 06/24/10 12:44 | |

LABORATORY CONTROL SAMPLE: 460139

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/kg | 50 | 51.3 | 103 | 70-131 | |
| 1,1,1-Trichloroethane | ug/kg | 50 | 48.0 | 96 | 70-141 | |
| 1,1,2,2-Tetrachloroethane | ug/kg | 50 | 52.6 | 105 | 70-130 | |
| 1,1,2-Trichloroethane | ug/kg | 50 | 49.6 | 99 | 70-132 | |
| 1,1-Dichloroethane | ug/kg | 50 | 48.4 | 97 | 70-143 | |
| 1,1-Dichloroethene | ug/kg | 50 | 50.2 | 100 | 70-137 | |
| 1,1-Dichloropropene | ug/kg | 50 | 46.7 | 93 | 70-135 | |
| 1,2,3-Trichlorobenzene | ug/kg | 50 | 52.0 | 104 | 69-153 | |
| 1,2,3-Trichloropropane | ug/kg | 50 | 47.0 | 94 | 70-130 | |
| 1,2,4-Trichlorobenzene | ug/kg | 50 | 52.8 | 106 | 55-171 | |
| 1,2,4-Trimethylbenzene | ug/kg | 50 | 50.0 | 100 | 70-149 | |
| 1,2-Dibromo-3-chloropropane | ug/kg | 50 | 51.8 | 104 | 68-141 | |
| 1,2-Dibromoethane (EDB) | ug/kg | 50 | 48.9 | 98 | 70-130 | |
| 1,2-Dichlorobenzene | ug/kg | 50 | 49.5 | 99 | 70-140 | |
| 1,2-Dichloroethane | ug/kg | 50 | 50.6 | 101 | 70-137 | |
| 1,2-Dichloropropane | ug/kg | 50 | 48.1 | 96 | 70-133 | |
| 1,3,5-Trimethylbenzene | ug/kg | 50 | 50.0 | 100 | 70-143 | |
| 1,3-Dichlorobenzene | ug/kg | 50 | 49.6 | 99 | 70-144 | |
| 1,3-Dichloropropane | ug/kg | 50 | 46.1 | 92 | 70-132 | |
| 1,4-Dichlorobenzene | ug/kg | 50 | 49.4 | 99 | 70-142 | |
| 2,2-Dichloropropane | ug/kg | 50 | 48.6 | 97 | 68-152 | |
| 2-Butanone (MEK) | ug/kg | 100 | 92.5J | 93 | 70-149 | |
| 2-Chlorotoluene | ug/kg | 50 | 47.8 | 96 | 70-141 | |
| 2-Hexanone | ug/kg | 100 | 102 | 102 | 70-149 | |
| 4-Chlorotoluene | ug/kg | 50 | 49.8 | 100 | 70-149 | |
| 4-Methyl-2-pentanone (MIBK) | ug/kg | 100 | 99.7 | 100 | 70-153 | |
| Acetone | ug/kg | 100 | 91.7J | 92 | 70-157 | |
| Benzene | ug/kg | 50 | 48.1 | 96 | 70-130 | |
| Bromobenzene | ug/kg | 50 | 48.9 | 98 | 70-141 | |



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# QUALITY CONTROL DATA

Project: Volvo : Asheville
Pace Project No.: 9271695

LABORATORY CONTROL SAMPLE: 460139

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Bromochloromethane | ug/kg | 50 | 48.5 | 97 | 70-149 | |
| Bromodichloromethane | ug/kg | 50 | 48.0 | 96 | 70-130 | |
| Bromoform | ug/kg | 50 | 49.8 | 100 | 70-131 | |
| Bromomethane | ug/kg | 50 | 54.0 | 108 | 64-136 | |
| Carbon tetrachloride | ug/kg | 50 | 49.7 | 99 | 70-154 | |
| Chlorobenzene | ug/kg | 50 | 49.0 | 98 | 70-135 | |
| Chloroethane | ug/kg | 50 | 46.6 | 93 | 68-151 | |
| Chloroform | ug/kg | 50 | 48.5 | 97 | 70-130 | |
| Chloromethane | ug/kg | 50 | 42.6 | 85 | 70-132 | |
| cis-1,2-Dichloroethene | ug/kg | 50 | 48.9 | 98 | 70-140 | |
| cis-1,3-Dichloropropene | ug/kg | 50 | 48.4 | 97 | 70-137 | |
| Dibromochloromethane | ug/kg | 50 | 46.6 | 93 | 70-130 | |
| Dibromomethane | ug/kg | 50 | 48.8 | 98 | 70-136 | |
| Dichlorodifluoromethane | ug/kg | 50 | 41.0 | 82 | 36-148 | |
| Diisopropyl ether | ug/kg | 50 | 46.7 | 93 | 70-139 | |
| Ethylbenzene | ug/kg | 50 | 49.4 | 99 | 70-137 | |
| Hexachloro-1,3-butadiene | ug/kg | 50 | 52.8 | 106 | 70-145 | |
| Isopropylbenzene (Cumene) | ug/kg | 50 | 51.1 | 102 | 70-141 | |
| m&p-Xylene | ug/kg | 100 | 101 | 101 | 70-140 | |
| Methyl-tert-butyl ether | ug/kg | 50 | 46.4 | 93 | 45-150 | |
| Methylene Chloride | ug/kg | 50 | 47.2 | 94 | 70-133 | |
| n-Butylbenzene | ug/kg | 50 | 50.8 | 102 | 65-155 | |
| n-Propylbenzene | ug/kg | 50 | 50.2 | 100 | 70-148 | |
| Naphthalene | ug/kg | 50 | 53.4 | 107 | 70-148 | |
| o-Xylene | ug/kg | 50 | 50.6 | 101 | 70-141 | |
| p-Isopropyltoluene | ug/kg | 50 | 50.6 | 101 | 70-148 | |
| sec-Butylbenzene | ug/kg | 50 | 49.6 | 99 | 70-145 | |
| Styrene | ug/kg | 50 | 51.8 | 104 | 70-138 | |
| tert-Butylbenzene | ug/kg | 50 | 50.3 | 101 | 70-143 | |
| Tetrachloroethene | ug/kg | 50 | 49.0 | 98 | 70-140 | |
| Toluene | ug/kg | 50 | 48.3 | 97 | 70-130 | |
| trans-1,2-Dichloroethene | ug/kg | 50 | 47.5 | 95 | 70-136 | |
| trans-1,3-Dichloropropene | ug/kg | 50 | 48.1 | 96 | 70-138 | |
| Trichloroethene | ug/kg | 50 | 50.9 | 102 | 70-132 | |
| Trichlorofluoromethane | ug/kg | 50 | 45.2 | 90 | 69-134 | |
| Vinyl acetate | ug/kg | 100 | 109 | 109 | 24-161 | |
| Vinyl chloride | ug/kg | 50 | 43.3 | 87 | 55-140 | |
| Xylene (Total) | ug/kg | 150 | 151 | 101 | 70-141 | |
| 1,2-Dichloroethane-d4 (S) | % | | | 102 | 70-132 | |
| 4-Bromofluorobenzene (S) | % | | | 102 | 70-130 | |
| Dibromofluoromethane (S) | % | | | 102 | 70-130 | |
| Toluene-d8 (S) | % | | | 100 | 70-130 | |

MATRIX SPIKE SAMPLE: 460610

| Parameter | Units | 9271855003 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | ug/kg | ND | 42.7 | 40.9 | 96 | 49-180 | |



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# QUALITY CONTROL DATA

Project: Volvo : Asheville
Pace Project No.: 9271695

MATRIX SPIKE SAMPLE: 460610

| Parameter | Units | 9271855003 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Benzene | ug/kg | ND | 42.7 | 38.7 | 91 | 50-166 | |
| Chlorobenzene | ug/kg | ND | 42.7 | 39.3 | 92 | 43-169 | |
| Toluene | ug/kg | ND | 42.7 | 40.4 | 94 | 52-163 | |
| Trichloroethene | ug/kg | ND | 42.7 | 42.1 | 98 | 49-167 | |
| 1,2-Dichloroethane-d4 (S) | % | | | | 99 | 70-132 | |
| 4-Bromofluorobenzene (S) | % | | | | 97 | 70-130 | |
| Dibromofluoromethane (S) | % | | | | 98 | 70-130 | |
| Toluene-d8 (S) | % | | | | 99 | 70-130 | |

SAMPLE DUPLICATE: 460609

| Parameter | Units | 9271770001 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/kg | ND | ND | | |
| 1,1,1-Trichloroethane | ug/kg | ND | ND | | |
| 1,1,2,2-Tetrachloroethane | ug/kg | ND | ND | | |
| 1,1,2-Trichloroethane | ug/kg | ND | ND | | |
| 1,1-Dichloroethane | ug/kg | ND | ND | | |
| 1,1-Dichloroethene | ug/kg | ND | ND | | |
| 1,1-Dichloropropene | ug/kg | ND | ND | | |
| 1,2,3-Trichlorobenzene | ug/kg | ND | ND | | |
| 1,2,3-Trichloropropane | ug/kg | ND | ND | | |
| 1,2,4-Trichlorobenzene | ug/kg | ND | ND | | |
| 1,2,4-Trimethylbenzene | ug/kg | ND | ND | | |
| 1,2-Dibromo-3-chloropropane | ug/kg | ND | ND | | |
| 1,2-Dibromoethane (EDB) | ug/kg | ND | ND | | |
| 1,2-Dichlorobenzene | ug/kg | ND | ND | | |
| 1,2-Dichloroethane | ug/kg | ND | ND | | |
| 1,2-Dichloropropane | ug/kg | ND | ND | | |
| 1,3,5-Trimethylbenzene | ug/kg | ND | ND | | |
| 1,3-Dichlorobenzene | ug/kg | ND | ND | | |
| 1,3-Dichloropropane | ug/kg | ND | ND | | |
| 1,4-Dichlorobenzene | ug/kg | ND | ND | | |
| 2,2-Dichloropropane | ug/kg | ND | ND | | |
| 2-Butanone (MEK) | ug/kg | ND | ND | | |
| 2-Chlorotoluene | ug/kg | ND | ND | | |
| 2-Hexanone | ug/kg | ND | ND | | |
| 4-Chlorotoluene | ug/kg | ND | ND | | |
| 4-Methyl-2-pentanone (MIBK) | ug/kg | ND | ND | | |
| Acetone | ug/kg | ND | ND | | |
| Benzene | ug/kg | ND | ND | | |
| Bromobenzene | ug/kg | ND | ND | | |
| Bromochloromethane | ug/kg | ND | ND | | |
| Bromodichloromethane | ug/kg | ND | ND | | |
| Bromoform | ug/kg | ND | ND | | |
| Bromomethane | ug/kg | ND | ND | | |
| Carbon tetrachloride | ug/kg | ND | ND | | |
| Chlorobenzene | ug/kg | ND | ND | | |



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# QUALITY CONTROL DATA

Project: Volvo : Asheville
Pace Project No.: 9271695

SAMPLE DUPLICATE: 460609

| Parameter | Units | 9271770001 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Chloroethane | ug/kg | ND | ND | | |
| Chloroform | ug/kg | ND | ND | | |
| Chloromethane | ug/kg | ND | ND | | |
| cis-1,2-Dichloroethene | ug/kg | ND | ND | | |
| cis-1,3-Dichloropropene | ug/kg | ND | ND | | |
| Dibromochloromethane | ug/kg | ND | ND | | |
| Dibromomethane | ug/kg | ND | ND | | |
| Dichlorodifluoromethane | ug/kg | ND | ND | | |
| Diisopropyl ether | ug/kg | ND | ND | | |
| Ethylbenzene | ug/kg | ND | ND | | |
| Hexachloro-1,3-butadiene | ug/kg | ND | ND | | |
| Isopropylbenzene (Cumene) | ug/kg | ND | ND | | |
| m&p-Xylene | ug/kg | ND | ND | | |
| Methyl-tert-butyl ether | ug/kg | ND | ND | | |
| Methylene Chloride | ug/kg | 52.4 | ND | | |
| n-Butylbenzene | ug/kg | ND | ND | | |
| n-Propylbenzene | ug/kg | ND | ND | | |
| Naphthalene | ug/kg | ND | ND | | |
| o-Xylene | ug/kg | ND | ND | | |
| p-Isopropyltoluene | ug/kg | ND | ND | | |
| sec-Butylbenzene | ug/kg | ND | ND | | |
| Styrene | ug/kg | ND | ND | | |
| tert-Butylbenzene | ug/kg | ND | ND | | |
| Tetrachloroethene | ug/kg | ND | ND | | |
| Toluene | ug/kg | ND | ND | | |
| trans-1,2-Dichloroethene | ug/kg | ND | ND | | |
| trans-1,3-Dichloropropene | ug/kg | ND | ND | | |
| Trichloroethene | ug/kg | ND | ND | | |
| Trichlorofluoromethane | ug/kg | ND | ND | | |
| Vinyl acetate | ug/kg | ND | ND | | |
| Vinyl chloride | ug/kg | ND | ND | | |
| Xylene (Total) | ug/kg | ND | ND | | |
| 1,2-Dichloroethane-d4 (S) | % | 100 | 100 | 1 | |
| 4-Bromofluorobenzene (S) | % | 94 | 96 | 2 | |
| Dibromofluoromethane (S) | % | 100 | 100 | 1 | |
| Toluene-d8 (S) | % | 101 | 100 | 0 | |



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# QUALITY CONTROL DATA

Project: Volvo : Asheville
Pace Project No.: 9271695

QC Batch: PMST/3244 | Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 | Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 9271695001, 9271695002, 9271695003, 9271695004, 9271695005, 9271695006, 9271695007, 9271695008, 9271695009, 9271695010, 9271695011

SAMPLE DUPLICATE: 457899

| Parameter | Units | 9271695009 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Percent Moisture | % | 22.5 | 19.8 | 13 | |

SAMPLE DUPLICATE: 457906

| Parameter | Units | 9271666001 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Percent Moisture | % | 20.8 | 18.7 | 11 | |



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# QUALITY CONTROL DATA

Project: Volvo : Asheville
Pace Project No.: 9271695

QC Batch: WETA/7688 — Analysis Method: EPA 7196
QC Batch Method: EPA 7196 — Analysis Description: 7196 Chromium, Hexavalent
Associated Lab Samples: 9271695001, 9271695002, 9271695003, 9271695004, 9271695005, 9271695008, 9271695009, 9271695010, 9271695011

METHOD BLANK: 466240 — Matrix: Solid
Associated Lab Samples: 9271695001, 9271695002, 9271695003, 9271695004, 9271695005, 9271695008, 9271695009, 9271695010, 9271695011

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Chromium, Hexavalent | mg/kg | ND | 0.50 | 07/08/10 15:01 | |

LABORATORY CONTROL SAMPLE: 466241

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Chromium, Hexavalent | mg/kg | 5 | 4.9 | 98 | 90-110 | |

MATRIX SPIKE SAMPLE: 466242

| Parameter | Units | 9271695001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Chromium, Hexavalent | mg/kg | ND | 52.5 | 17.5 | 33 | 75-125 | M1 |

SAMPLE DUPLICATE: 466243

| Parameter | Units | 9271695001 Result | Dup Result | RPD | Qualifiers |
|---|---|---|---|---|---|
| Chromium, Hexavalent | mg/kg | ND | ND | | |



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# QUALIFIERS

Project: Volvo : Asheville
Pace Project No.: 9271695

## DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

## LABORATORIES

| | |
|---|---|
| PASI-A | Pace Analytical Services - Asheville |
| PASI-C | Pace Analytical Services - Charlotte |
| PASI-O | Pace Analytical Services - Ormond Beach |

## ANALYTE QUALIFIERS

| | |
|---|---|
| 1g | Results acceptable because non target analyte peak heights do not exceed the maximum calibrated upper range of the system per Section 9.5.8 of the Madep VPH method. |
| C9 | Common Laboratory Contaminant. |
| D3 | Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference. |
| IO | The internal standard response was outside the laboratory acceptance limits confirmed by reanalysis. The results reported are from the most QC compliant analysis. |
| L0 | Analyte recovery in the laboratory control sample (LCS) was outside QC limits. |
| L1 | Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high. |
| L2 | Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low. |
| L3 | Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias. |
| M0 | Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits. |
| M1 | Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery. |
| M3 | Matrix spike recovery was outside laboratory control limits due to matrix interferences. |
| P6 | Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level. |
| R2 | RPD value was outside control limits due to matrix interference |
| S2 | Surrogate recovery outside laboratory control limits due to matrix interferences (confirmed by similar results from sample re-analysis). |
| S3 | Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias. |
| S4 | Surrogate recovery not evaluated against control limits due to sample dilution. |



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# QUALIFIERS

Project: Volvo : Asheville
Pace Project No.: 9271695

## ANALYTE QUALIFIERS

S5 Surrogate recovery outside control limits due to matrix interferences (not confirmed by re-analysis).



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