# APPENDIX A

## Sampling Techniques

# APPENDIX A—SAMPLING TECHNIQUES

Proper sampling techniques must be followed so that samples represent actual field conditions and that samples are labeled, preserved, and transported properly to retain sample integrity. This appendix describes procedures to be followed by Acton • Mickelson • Environmental, Inc. (AME), during collection of subsurface soil and ground water samples and remediation system process samples. Sampling guidance documents from the American Society of Testing and Materials (ASTM), U.S. Environmental Protection Agency (EPA), and California Environmental Protection Agency (Cal-EPA) will be followed for all sampling procedures. Actual sampling procedures to be employed will be based on field conditions and may differ from those described here.

## 1. EXPLORATION BORING/SOIL SAMPLING PROCEDURES

Soil borings and soil sampling will be performed under the direction of an appropriately registered AME professional. The soil borings unless otherwise specified will be advanced using a truck-mounted, hollow-stem auger drill rig.

Soil samples will be collected at vertical intervals of not more than 5 feet. Soil sampling will be done in general accordance with ASTM D1586-84 (reapproved 1992), modified to allow the use of a 2-inch-diameter split-barrel sampler. Using this procedure, three 2-inch-diameter, 6-inch-length, brass tubes are placed in a California-type split-barrel sampler. The sampler is driven into the soil by a 140-pound weight falling 30 inches. After driving the sampler an initial set of 6 inches (seating drive), the number of blows required to drive the sampler an additional 12 inches is known as standard penetration resistance, or the "N" value. The "N" value is used as an empirical measure of the relative density of cohesionless soil and the consistency of cohesive soil.

Upon recovery of the split-barrel sampler, the brass tubes containing the soil will be removed. One of the three brass tubes will be sealed at the ends with Teflon® tape and plastic end caps. The percent recovery of the sample will be recorded. The sample will be labeled with an identification number, time, date, location, and requested laboratory analysis. The sample will then be placed in a plastic bag and stored at approximately 4° Celsius (C) in an ice chest for transport to the laboratory. Sample custody procedures outlined in Section 7 of this exhibit will be followed. This will be performed for each sample collection.

Soil in one of the brass tubes will be extracted upon recovery, placed in a plastic bag, sealed, and placed out of direct sunlight for later screening for organic vapors using a photoionization detector (PID) or a flame ionization detector (FID). The remaining portion of the soil sample will be examined and a complete log of soil conditions will be recorded on a soil boring log (Enclosure A) using the Unified Soil Classification System (Enclosure B). The soil will be examined for composition, color, and moisture content.

The split-barrel sampler will be cleaned to prevent cross-contamination for each sampling interval using procedures described in Section 4.

Soil borings will normally be advanced with 8- or 10-inch-diameter, hollow-stem augers. The soil generated from the soil borings will be stored in 55-gallon drums and labeled with the corresponding boring number, date, and address of the facility. Alternatively, the soil generated from the soil borings may be wrapped in plastic and stored on site until characterized for disposal.

# 2. MEASUREMENTS OF WATER LEVEL AND APPARENT THICKNESS OF PHASE SEPARATED HYDROCARBONS, ALSO KNOWN AS LIQUID PHASE HYDROCARBONS

For sites where phase separated hydrocarbons (PSH) may be present, the static water level and apparent PSH thickness in each well will be measured with an electronic interface probe prior to purging or sampling. The wire of the interface probe is marked at 0.01 foot intervals. One tone is emitted from the interface probe if PSH is encountered; another tone for water. The wire of the interface probe will be lowered slowly until PSH or water is encountered. At this point, the mark on the interface wire opposite the permanent reference point on the top of the well casing will be read to the nearest 0.01 foot and recorded. If the first encountered substance is PSH, the probe will be lowered until the tone corresponding to water is emitted. This depth will also be recorded. The difference between the two depths corresponds to the apparent PSH thickness. The interface probe will be rinsed in a cleaning solution and deionized water between measurements in different wells.

A disposable bailer will be used to collect a sample of PSH, if present in a well, for subjective analysis. The sample will be collected by gently lowering the bailer approximately one-half the bailer length past the air/PSH interface. The appearance (color, opacity, "freshness") will be described and noted on field notes.

For sites where PSH is not present, either a conductance probe level meter or an electronic interface probe will be used to measure static water level. The conductance probe level meter emits a steady tone upon encountering any conductive fluid (i.e., water). Like the interface probe, the wire of the conductance probe level meter has markings at 0.01 foot intervals, and the procedure for obtaining static water levels with the conductance probe level meter is basically the same as for an interface probe when PSH is not encountered.

A permanent reference point will be marked on the well casings. The permanent reference point on the well casings will be surveyed to a common reference point. All well casing riser elevations will be known to within 0.01 foot.

# 3. GROUND WATER SAMPLING

Ground water sampling will be done in general accordance with ASTM D4448 (reapproved 1992).

## 3.1 Well Evacuation

Where monitoring well purging is required prior to collection of a ground water sample, stagnant water will be removed from the well casing and the surrounding gravel pack by bailing, pumping, or with a vacuum truck. At least three casing volumes of water will be removed from each well from which a sample is to be collected (unless low-flow purging is performed for measurement of

dissolved oxygen as described in Section 3.2). The volume of water in the casing will be determined from the known elevation of the water surface, the well bottom elevation (as measured when the well is installed), and the well diameter.

If the well is bailed or pumped during purging, samples will be collected and field analyzed for pH, temperature, and specific conductance. The well will be considered stabilized when repeated readings of the following parameters are within the ranges indicated as follows:

- Specific conductance ±10 percent of the reading range
- pH ±0.1 pH unit
- Temperature ±0.5° C

After stabilization, and after at least three casing volumes are evacuated, a sample will be collected for analysis. The field container used for well stabilization measurements, and the pH, temperature, and conductivity probes will be rinsed between wells with deionized water.

All purge water will be containerized and properly handled and documented for disposal. If the containers are stored on site, a label specifying the date of purging, source, and the known or suspected nature of the contents will be affixed to each container.

## 3.2 Low-Flow Well Evacuation (Measuring Dissolved Oxygen)

Where accurate measurement of dissolved oxygen (DO) concentration is necessary, a low-flow purging method is used. Ground water is removed from the well at a rate of 0.5 gallon per minute or less. The ground water purge flow is directed into a flow-through sampling chamber containing a field analyzer for DO. The well is considered stabilized and the DO concentration recorded when repeated measurements of DO are within a range of 0.1 milligram per liter. The well can then be sampled as described in Section 3.4 even if less than three casing volumes of ground water are removed.

## 3.3 Geoprobe® Sampling

Undisturbed ground water samples may be obtained with a Geoprobe® sampling apparatus. When the termination depth of a boring is reached (i.e., when soil is observed to be wet, but not saturated), a Geoprobe® sampling apparatus will be driven approximately 2 feet into the saturated zone. The tool will then be withdrawn approximately 18 inches to expose the inlet screen and allow ground water to flow into the interior of the sampling device. The Geoprobe® will be withdrawn from the subsurface after allowing ample time for the sampling device to fill with ground water.

After the Geoprobe® is retrieved, a stop cock will be attached to the device for sample retrieval. The sample will then be placed in laboratory-supplied containers.

## 3.4 Sample Collection, Preservation, and Handling

A new polyethylene disposable bailer will be used to collect ground water samples for analysis. The bailer is attached to a new disposable rope and lowered slowly into the water to avoid agitation of the collected sample. Containers for volatile organics analyses will be filled completely so that no airspace remains in the vial after sealing.

All sample containers will be prewashed and prepared at the analyzing laboratory in accordance with quality assurance/quality control protocols of the laboratory. Only sample containers appropriate for the intended analyses will be used.

After sample collection, the samples will be placed into coolers with ice packs. Internal temperature of the cooler will be maintained at approximately 4º C. Samples will be kept in coolers during transport to the analyzing laboratory.

# 4. REMEDIATION SYSTEM SAMPLING AND MONITORING

## 4.1 Water Sampling

Water samples will be collected in the container(s) appropriate for the analysis. Containers will be filled from a sampling port. After collection, samples will be placed into coolers maintained at approximately 4 degrees C and kept in coolers until delivery to the analyzing laboratory.

## 4.2 Air and Soil Vapor Sampling

Process air and soil vapor samples for laboratory analysis will be collected in either Tedlar sampling bags or evacuated Summa canisters. The sampling container will be filled from a process sampling port. A vacuum pump connected to the sampling port will be used to fill Tedlar bags, and to fill Summa canisters when the sample is from a process point under vacuum. After collection, samples will be placed into coolers at ambient temperature to block exposure to direct sunlight and will be kept in coolers until delivery to the analyzing laboratory.

## 4.3 Air and Soil Vapor Monitoring

Field monitoring of process air (or soil vapor) will normally be performed with an FID. Using a sampling port with discharge tubing running into an open-top sample bottle (e.g., 500-milliliter polyethylene), the sampling port valve is opened to allow sample flow into the sample bottle. A vacuum pump is used to produce sample flow from process points under low or negative pressure. With sample flowing through the open-top bottle, the FID probe is inserted into the sample bottle and the reading recorded upon reaching steady state. As an alternative to the FID, a Draeger® tube can be inserted in the sample bottle and a measurement obtained following the specific instructions for the type of tube used.

Field monitoring of vadose zone soil vapor may be performed with an FID or a lower explosive limit (LEL) meter. The probe of the FID or LEL meter is lowered to the screen interval of the well and the highest reading is recorded. Alternatively, a vacuum pump can be connected to the wellhead and a measurement obtained from a sample bottle as described above.

# 5. DECONTAMINATION PROCEDURES

All equipment that comes in contact with potentially contaminated soil, drilling fluid, air, or water will be decontaminated before each use. Decontamination will consist of steam-cleaning, a high-pressure, hot-water rinse, or trisodium phosphate (TSP) or Alconox®/Liquinox® wash and freshwater rinse, as appropriate.

Drilling and sampling equipment will be decontaminated as follows:

1. Drill rig augers, drill rods, and drill bits will be steam-cleaned prior to use and between borings. Visible soil, grease, and other impurities will be removed.

2. Soil sampling equipment will be steam-cleaned prior to use and between each boring. Prior to individual sample collection, any sampling device will also be cleaned in a TSP or Alconox®/Liquinox® solution and rinsed twice in clean water. Any visible soil residue will be removed.

3. It is anticipated that disposable equipment will be used to collect water samples. If disposable equipment is not used, water sampling equipment will be decontaminated using methods described in Item 2 above for soil sampling equipment.

4. Water sampling containers will be cleaned and prepared by the respective analytical laboratories.

5. Stainless steel or brass soil sampling tubes will be steam-cleaned or washed in TSP or Alconox®/Liquinox® solution and rinsed with clean water.

6. Field monitoring equipment (pH, conductivity, or temperature probes) will be rinsed with clean water prior to use and between samples.

# 6. FIELD MEASUREMENTS

Field data will be collected during various sampling and monitoring activities; this section describes routine procedures to be followed by personnel performing field measurements. The methods presented below are intended to ensure that field measurements are consistent and reproducible when performed by various individuals.

## 6.1 Buried Utility Locations

Prior to commencement of work on site, AME will contact appropriate utility companies to have underground utility lines located. All work associated with the borings will be preceded by hand augering to a minimum depth of 5 feet below the ground surface to avoid contact with underground utilities.

## 6.2 Lithologic Logging

A log of soil conditions encountered during drilling and sample collection (Enclosure A) will be maintained using the Unified Soil Classification System (Enclosure B) by an AME geologist. All boring logs will be reviewed by a California registered geologist.

The collected soil samples will be examined and the following information recorded: boring location, sample interval and depth, blow counts, color, soil type, moisture content (qualitative), and depth at which ground water (if present) is first encountered. Also recorded on the soil boring logs will be the field screening results obtained using a portable PID or FID.

## 6.3 Conductivity, Temperature, and pH

Specific conductance, water temperature, and pH measurements will be made when a water sample is collected. Regardless of the sample collection method, a representative water sample will be placed in a transfer bottle used solely for field parameter determinations. A conventional pH meter with a combination electrode or equivalent will be used for field-specific conductance measurements. Temperature measurements will be performed using standard thermometers or equivalent temperature meters. Combination instruments capable of measuring two or all three of the parameters may also be used.

All instruments will be calibrated in accordance with manufacturer methods. The values for conductivity standards and pH buffers used in calibration will be recorded daily in a field notebook. All probes will be thoroughly cleaned and rinsed with fresh water prior to any measurements, in accordance with Section 5.

# 7. DISPOSAL PROCEDURES

Soil and fluids that are produced and/or used during the installation and sampling of borings, and that are known or suspected to contain potentially hazardous materials, will be contained during the above operations. These substances will be retained on site until chemical testing has been completed to determine the proper means of disposal. Handling and disposal of substances known or suspected to contain potentially hazardous materials will comply with the applicable regulations of the Cal-EPA, the California Department of Water Resources, and any other applicable regulations. Soil and fluids produced and/or used during the above-described operations that appear to contain potentially hazardous materials will be disposed of appropriately.

Residual substances generated during cleaning procedures that are known or suspected to pose a threat to human health or the environment will be placed in appropriate containers until chemical testing has been completed to determine the proper means for their disposal.

# 8. SAMPLE CUSTODY

This section describes standard operating procedures for sample custody and custody documentation. Sample custody procedures will be followed through sample collection, transfer, analysis, and ultimate disposal. The purpose of these procedures is to assure that (1) the integrity of samples is maintained during their collection, transportation, and storage prior to analysis and (2) post-analysis sample material is properly disposed of. Sample custody is divided into field procedures and laboratory procedures, as described below.

## 8.1 Field Custody Procedures

Sample quantities, types, and locations will be determined before the actual fieldwork commences. As few people as possible will handle samples. The field sampler is personally responsible for the care and custody of the collected samples until they are properly transferred.

### 8.1.1 Field Documentation

Each sample will be labeled and sealed properly immediately after collection. Sample identification documents will be carefully prepared so that identification and chain-of-custody records can be maintained and sample disposition can be controlled. Forms will be filled out with waterproof ink. The following sample identification documents will be utilized.

- Sample labels
- Field notebook
- Chain-of-custody forms

### 8.1.2 Sample Labels

Sample labels provide identification of samples. Preprinted sample labels will be provided. Where necessary, the label will be protected from water and solvents with clean label-protection tape. Each label will contain the following information:

- Name of collector
- Date and time of collection
- Place of collection
- AME project number
- Sample number
- Preservative (if any)

### 8.1.3 Field Notebook

Information pertinent to a field survey, measurements, and/or sampling will be recorded in a bound notebook or on the daily field log. Entries in the notebook should include the following:

- Name and title of author, date and time of entry, and physical/environmental conditions during field activity.
- Location of sampling or measurement activity
- Name(s) and title(s) of field crew
- Type of sampled or measured media (e.g., soil, ground water, and air)
- Sample collection or measurement method(s)
- Number and volume of sample(s) taken
- Description of sampling point(s)
- Description of measuring reference points
- Date and time of collection or measurement
- Sample identification number(s)
- Sample preservative (if any)
- Sample distribution (e.g., laboratory)
- Field observations/comments
- Field measurements data (e.g., pH)

### 8.1.4 Chain-of-Custody Record

A chain-of-custody record will be filled out for and will accompany every sample and every shipment of samples to the analytical laboratories in order to establish the documentation necessary to trace sample possession from the time of collection. The record will contain the following information:

- Sample or station number or sample ID
- Signature of collector, sampler, or recorder
- Date and time of collection
- Place of collection
- Sample type
- Signatures of persons involved in the chain of possession
- Inclusive dates of possession

The laboratory portion of the form should be completed by laboratory personnel and will contain the following information:

- Name of person receiving the sample
- Laboratory sample number
- Date and time of sample receipt
- Analyses requested
- Sample condition and temperature

### 8.1.5 Sample Transfer and Shipment

Samples will always be accompanied by a chain-of-custody record. When transferring samples, the individuals relinquishing and receiving the samples will sign, date, and note the time on the chain-of-custody record. Samples will be packaged properly for shipment and dispatched to the appropriate laboratory for analysis. The chain-of-custody record will accompany each shipment. The method of shipment, courier name(s), and other pertinent information will be entered in the chain-of-custody record.

## 8.2 Laboratory Custody Procedures

A designated sample custodian will accept custody of the shipped samples and verify that the information on the sample label matches that on the chain-of-custody record. Information regarding method of delivery and sample conditions will also be checked on the chain-of-custody record. The custodian will then enter the appropriate data into the laboratory sample tracking system. The laboratory custodian may use the sample number on the sample label or may assign a unique laboratory number to each sample. The custodian will then transfer the sample(s) to the proper analyst(s) or store the sample(s) in the appropriate secure area.

Laboratory personnel are responsible for the care and custody of samples from the time they are received until the sample is exhausted. Once at the laboratory, the samples are handled in accordance with *U.S. Environmental Protection Agency SW-846, Test Methods for Evaluating Solid Waste Physical/Chemical Methods, Third Edition*, for the intended analyses. All data sheets, chromatographs, and laboratory records will be filed as part of the permanent documentation.

## 8.3 Corrections to Documentation

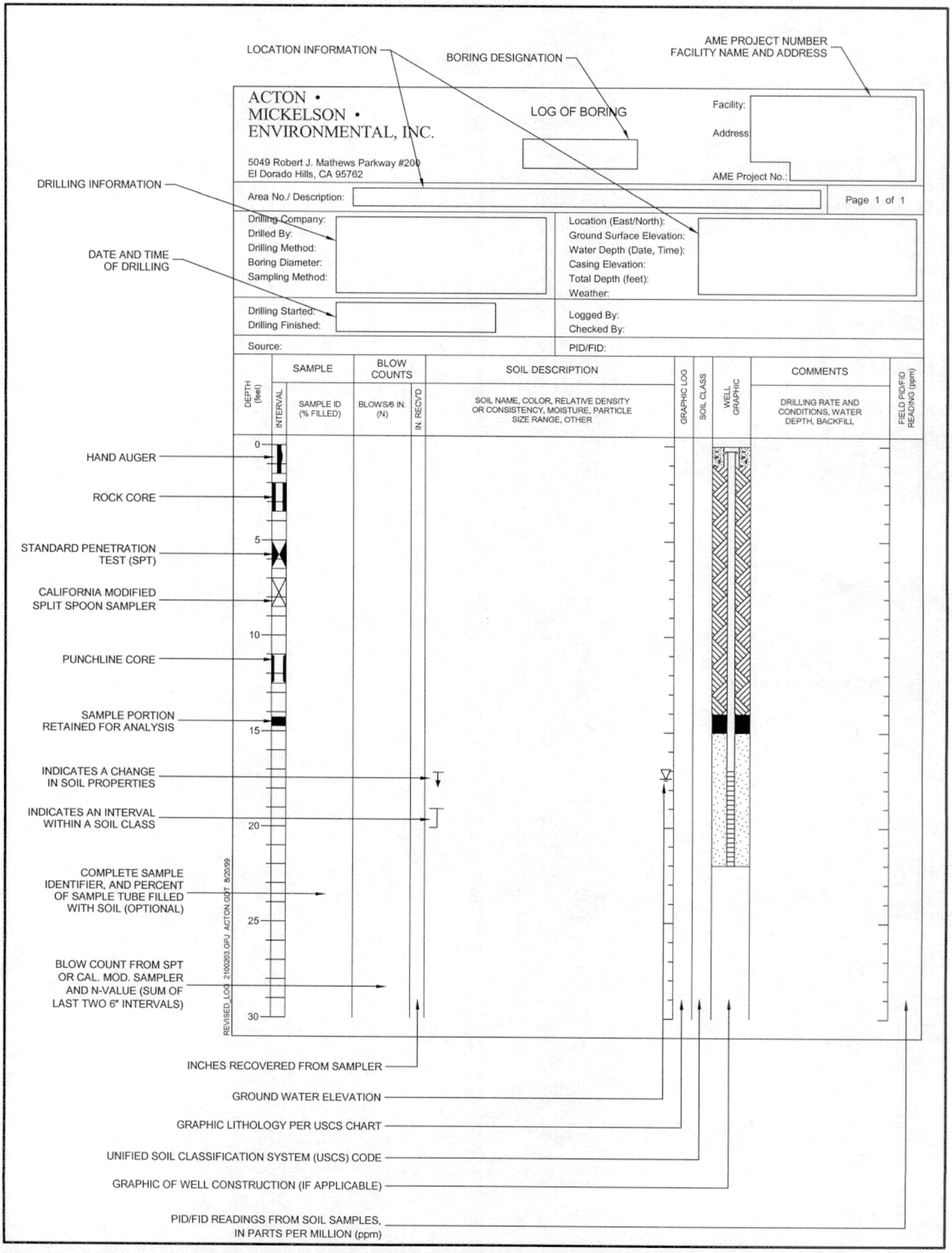
Original data recorded in field notebooks, chain-of-custody records, and other forms should be written in ink. These documents should not be altered, destroyed, or discarded, even if they are illegible or contain inaccuracies that require a replacement document.

If an error is made or found on a document, the individual making the corrections will do so by crossing a single line through the error, entering the correct information, and initialing and dating the change. The erroneous information will be obliterated. Any subsequent error(s) discovered on a document will be corrected. All corrections will be initialed and dated.

## 8.4 Sample Storage and Disposal

Samples and extracts should be retained by the analytical laboratory for 30 days after receipt. Unless notified by the program manager, excess or unused samples should be disposed of by the laboratory in an appropriate manner consistent with applicable government regulations.

# ENCLOSURE A
# BORING LOG KEY



# ENCLOSURE B
# UNIFIED SOIL CLASSIFICATION SYSTEM CHART

| MAJOR DIVISION | | | SYMBOL | | GROUP NAME[A] AND TYPICAL DESCRIPTION |
|---|---|---|---|---|---|
| | | | GRAPH | LETTER | |
| COARSE GRAINED SOILS<br>MORE THAN 50% OF MATERIAL RETAINED ON NO. 200 SIEVE | GRAVEL AND GRAVELLY SOILS<br>MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE | CLEAN GRAVELS<br>(LESS THAN 5% FINES) | | GW[B] | **WELL-GRADED GRAVEL[C]**: GRAVEL - SAND MIXTURES, LITTLE OR NO FINES |
| | | | | GP[B] | **POORLY-GRADED GRAVEL[C]**: GRAVEL - SAND MIXTURES, LITTLE OR NO FINES |
| | | GRAVELS WITH FINES<br>(MORE THAN 15% FINES) | | GM[B] | **SILTY GRAVEL[C]**: GRAVEL - SAND - SILT MIXTURES |
| | | | | GC[B] | **CLAYEY GRAVEL[C]**: GRAVEL - SAND - CLAY MIXTURES |
| | SAND AND SANDY SOILS<br>MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE | CLEAN SANDS<br>(LESS THAN 5% FINES) | | SW | **WELL-GRADED SAND[D]**: GRAVELLY SANDS, LITTLE OR NO FINES |
| | | | | SP | **POORLY-GRADED SAND[D]**: GRAVELLY SANDS, LITTLE OR NO FINES |
| | | SANDS WITH FINES<br>(MORE THAN 15% FINES) | | SM | **SILTY SAND[D]**: SAND - SILT MIXTURES |
| | | | | SC | **CLAYEY SAND[D]**: SAND - CLAY MIXTURES |
| FINE GRAINED SOILS<br>MORE THAN 50% OF MATERIAL PASSES THE NO. 200 SIEVE | SILTS AND CLAYS | LIQUID LIMIT LESS THAN 50 | | ML | **SILT[E]**: INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY |
| | | | | CL | **LEAN CLAY[E]**: INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS |
| | | | | OL | **ORGANIC CLAY/ORGANIC SILT[E]**: ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY |
| | SILTS AND CLAYS | LIQUID LIMIT 50 OR GREATER | | MH | **ELASTIC SILT[E]**: INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILTY SOILS |
| | | | | CH | **FAT CLAY[E]**: INORGANIC CLAYS OF HIGH PLASTICITY |
| | | | | OH | **ORGANIC CLAY/ORGANIC SILT[E]**: ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS |
| HIGHLY ORGANIC SOILS | | | | PT | **PEAT**: HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS |

NOTES: A) IF FIELD SAMPLE CONTAINS COBBLES OR BOULDERS, ADD "WITH COBBLES" AND/OR "WITH BOULDERS" TO GROUP NAME
B) DUAL SYMBOLS ARE USED TO INDICATE BORDERLINE SOIL CLASSIFICATIONS WITH 5-15% FINES. ADD "WITH SILT" OR "WITH CLAY" TO GROUP NAME
C) IF SOIL CONTAINS 15% OR MORE SAND, ADD "WITH SAND" TO GROUP NAME
D) IF SOIL CONTAINS 15% OR MORE GRAVEL, ADD "WITH GRAVEL" TO GROUP NAME
E) IF SOIL CONTAINS 30% OR MORE PLUS NO. 200, ADD "SANDY" OR "GRAVELLY" TO GROUP NAME. IF 15-25%, ADD "WITH SAND" OR "WITH GRAVEL", WHICHEVER IS PREDOMINANT.

# APPENDIX B

## Sampling/Development Information Forms

## GROUND WATER LEVEL DATA

ACTON MICKELSON ENVIRONMENTAL, INC.
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762

Project Name: Former Georgia Pacific Sawmill
Facility/Address: 90 West Redwood Avenue, Fort Bragg, Ca
Project Number: 16017.01

Date: 8/19/05 Field Crew: TEC JS, JM Measuring Device and Number: Solinst Model 122

| Well No. | Time | Depth to Product (feet bmp) | Depth to Ground Water (feet bmp) | Product Thickness (feet) | Reference Elevation (feet msl) | Ground Water Elevation (feet msl) | Physical Observations/Comments |
|---|---|---|---|---|---|---|---|
| MW-5.1 | 1421 | 10.27 | 10.30 | 0.03 | 58.32 | 48.04 | Smells like Diesel |
| MW-5.2 | 1435 | ~~*~~ | 1.99 | | 59.61 | 57.62 | |
| MW-5.3 | 1441 | | 7.42 | | 56.71 | 49.29 | |
| MW-5.4 | 1439 | | 6.78 | | 58.99 | 52.21 | |
| MW-5.5 | 1444 | | 5.49 | | 57.56 | 52.07 | |
| MW-5.6 | 1455 | | 11.28 | | 50.07 | 38.79 | |
| MW-5.7 | 14:50 | | 5.18 | | 44.83 | 39.65 | |
| MW-5.8 | 14:56 | | 6.72 | | 45.62 | 38.90 | |
| MW-5.9 | 1501 | | 6.73 | | 31.32 | ~~24.98~~ 24.59 | |
| MW-7.1 | 1537 | | 6.37 | | 54.03 | ~~24.59~~ 47.66 | |
| MW-10.1 | 1553 | | 19.18 | | 78.82 | 59.64 | |
| MW-10.2 | 1559 | | 9.86 | | 70.69 | 60.83 | |
| MW-10.3 | 15:48 | | 27.19 | | 71.62 | 44.43 | Lock is bad |
| MW-10.4 | 15:44 | | 26.37 | | 73.42 | 47.05 | Lock is bad |
| Pond 8 North Outfall | 16:09 | | Dry | | 40.05 | — | |
| Pond 8 South Outfall | 16:10 | | 0.10 | | 40.11 | 40.01 | |

Signature: [illegible]

Comments:

## GROUND WATER LEVEL DATA

ACTON MICKELSON ENVIRONMENTAL, INC.
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762

Project Name: Former Georgia Pacific Sawmill
Facility/Address: 90 West Redwood Avenue, Fort Bragg, Ca
Project Number: 16017.01

Date: 8/15/05 Field Crew: TC, JS, JM Measuring Device and Number: Solinst Model 122

| Well No. | Time | Depth to Product (feet bmp) | Depth to Ground Water (feet bmp) | Product Thickness (feet) | Reference Elevation (feet msl) | Ground Water Elevation (feet msl) | Physical Observations/Comments (Solinst Model 122) |
|---|---|---|---|---|---|---|---|
| MW-2.1 | 1308 | | 5.16 | | 60.79 | 55.63 | |
| MW-2.2 | 1321 | | 4.09 | | 60.70 | 56.61 | |
| MW-2.3 | 1318 | | 5.32 | | 62.67 | 57.35 | |
| MW-3.1 | 13:50 | | 8.32 | | 76.07 | 67.75 | |
| MW-3.2 | 13:54 | | 8.39 | | 76.18 | 67.79 | |
| MW-3.3 | 1409 | | 6.48 | | 74.22 | 67.74 | Block windows in well box Great. |
| MW-3.4 | 14:12 | | 2.42 | | 60.84 | 58.42 | |
| MW-3.5 | 14:14 | | 2.72 | | 59.40 | 56.68 | |
| MW-3.6 | 14.17 | | 0.91 | | 57.61 | 56.70 | water in box |
| MW-3.7 | 13:39 | | 7.38 | | 63.24 | 55.86 | |
| MW-3.8 | 13:36 | | 5.38 | | 63.44 | 58.06 | |
| MW-3.9 | 13:34 | | 4.83 | | 63.32 | 58.49 | |
| MW-4.1 | 1527 | | 5.17 | | 22.91 | 17.74 | |
| MW-4.2 | 15:25 | | 6.67 | | 28.12 | 21.50 | Well has been hit surface completion does |
| 8/16/05 MW-4.3 | 14:20 | | 3.38 | | 25.19 | | Well buried under several tons of concrete |
| MW-4.4 | 15:06 | | 3.87 | | 26.54 | 22.67 | |

Signature:

Comments:

4.2 not look right collected photos
A gap between concrete & dirt.

## GROUND WATER LEVEL DATA

ACTON MICKELSON ENVIRONMENTAL, INC.
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762

Project Name: Former Georgia Pacific Sawmill
Facility/Address: 90 West Redwood Avenue, Fort Bragg, Ca
Project Number: 16017.01

Date: 8/15/05 Field Crew: TEC, JDM, JS Measuring Device and Number: Solinst Model 122

| Well No. | Time | to Product (feet bmp) | Depth to Ground Water (feet bmp) | Product Thickness (feet) | Reference Elevation (feet msl) | Ground Water Elevation (feet msl) | Physical Observations/Comments |
|---|---|---|---|---|---|---|---|
| MW-2.1 | 1308 | | 5.16 | | 60.79 | 55.63 | |
| MW-2.2 | 1321 | | 4.09 | | 60.70 | 56.61 | |
| MW-2.3 | 1318 | | 5.32 | | 62.67 | 57.35 | |
| MW-3.1 | 1350 | | 8.32 | | 76.07 | 67.75 | |
| MW-3.2 | 1359 | | 8.39 | | 76.18 | 67.79 | |
| MW-3.3 | 1405 | | 6.48 | | 74.22 | 67.74 | Black widows in well box |
| MW-3.4 | 1412 | | 2.42 | | 60.84 | 58.42 | |
| MW-3.5 | 1414 | | 2.72 | | 59.40 | 56.68 | |
| MW-3.6 | 1417 | | 0.91 | | 57.61 | 56.70 | |
| MW-3.7 | 1339 | | 7.38 | | 63.24 | 55.86 | water in well box |
| MW-3.8 | 1336 | | 5.38 | | 63.44 | 58.06 | |
| MW-3.9 | 1334 | | 4.83 | | 63.32 | 58.49 | |
| MW-4.1 | 1527 | | 5.17 | | 22.91 | 17.74 | |
| MW-4.2 | 1525 | | 6.62 | | 28.12 | 21.50 | Well has been hit, concrete separated from native soil. |
| MW-4.3 | 1425 | | 3.38 | | 25.19 | 21.81 | well covered with concrete debris Uncovered 8/16/05 Gauged |
| MW-4.4 | 1506 | | 3.87 | | 26.54 | 22.67 | |

Signature:

Comments: Should replace all well locks. Over 80 Percent are in bad shape.

## GROUND WATER LEVEL DATA

ACTON MICKELSON ENVIRONMENTAL, INC.
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762

Project Name: Former Georgia Pacific Sawmill
Facility/Address: 90 West Redwood Avenue, Fort Bragg, Ca
Project Number: 16017.01

Date: 8/15/05 Field Crew: TEC, JDM, JS Measuring Device and Number: Solinst Model 122

| Well No. | Time | to Product (feet bmp) | Depth to Ground Water (feet bmp) | Product Thickness (feet) | Reference Elevation (feet msl) | Ground Water Elevation (feet msl) | Physical Observations/Comments |
|---|---|---|---|---|---|---|---|
| MW-5.1 | 1421 | 10.27 | 10.3 | 0.03 | 58.32 | 48.04 | |
| MW-5.2 | 1435 | | 1.99 | | 59.61 | 57.62 | |
| MW-5.3 | 1441 | | 7.42 | | 56.71 | 49.29 | |
| MW-5.4 | 1439 | | 6.78 | | 58.99 | 52.21 | |
| MW-5.5 | 1444 | | 5.49 | | 57.56 | 52.07 | |
| MW-5.6 | 1455 | | 11.28 | | 50.07 | 38.79 | |
| MW-5.7 | 1450 | | 5.18 | | 44.83 | 39.65 | |
| MW-5.8 | 1456 | | 6.72 | | 45.62 | 38.90 | |
| MW-5.9 | 1500 | | 6.73 | | 31.32 | 24.59 | |
| MW-7.1 | 1537 | | 6.37 | | 54.03 | 47.66 | |
| MW-10.1 | 1553 | | 19.18 | | 78.82 | 59.64 | Lock needs to be replaced |
| MW-10.2 | 1559 | | 9.86 | | 70.69 | 60.83 | Lock needs to be replaced |
| MW-10.3 | 1548 | | 27.19 | | 71.62 | 44.43 | Lock needs to be replaced |
| MW-10.4 | 1544 | | 26.37 | | 73.42 | 47.05 | Lock needs to be replaced |
| Pond 8 North Outfall | 1609 | | | | 40.05 | 40.05 | Outfall Dry |
| Pond 8 South Outfall | 1610 | | 0.1 | | 40.11 | 40.01 | |

Signature:

Comments:

## SAMPLING/DEVELOPMENT INFORMATION

ACTON • MICKELSON • ENVIRONMENTAL, INC.
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762

Project Name: Former Georgia-Pacific Sawmill
Facility/ Address: 90 West Redwood Avenue, Fort Bragg, CA
Project Number: 16017.01

**Well/ Sample Location: MW-2.1** — **Date: 8/15/2005**

Sample ID: MW-2.1-08 15 05 — Field Crew: TEC, JRS, JDM

QA/QC Sample IDs: — Purging Subcontractor: NA

MS/MSD for this Sample? ☑ — Weather: Sunny / windy

Location Description: Monitoring Well — FID/PID at Well Headspace (ppm): NA

Well Condition: OK

### PURGING PARAMETERS

Casing Diameter (D, inches) 4

Approx. Screen Depth (feet bmp): 5.00 to 19.75

Depth to Water (H, feet bmp): 5.28 8/15/05

Casing Volume (gallons): NA

Calculated Purge Volume (gallons): NA

Note if LPH (feet thickness):

CASING VOLUME: ([TD-H]*[3.14*(D/24)2]*[7.48 gallons/ft3
0.65*[TD-H] for 4-inch well; 0.16*[TD-H] for 2-inch wel

### PURGING/SAMPLING METHODS

| | Purging | Sampling | Notes |
|---|---|---|---|
| Low Flow | ☑ | ☑ | |
| Peristaltic Pump | ☑ | ☑ | |
| Submersible Pump | ☐ | ☐ | |
| Bailer | ☐ | ☐ | |
| Tap/ Other | ☐ | ☐ | |
| Dedicated Equipment? | ☐ | ☐ | |

Intake Depth (feet bmp): ≈ 16'

### PURGING AND WATER QUALITY DATA

| Time | Purge Rate (gpm) (lpm) or Increment (gal) (l) | Cumulative Water Removed (gal) (l) | Depth to Water (feet bmp) | pH (units) | Specific Conductance (mS/cm) | Turbidity (NTU) | Dissolved Oxygen (mg/L) | Temperature (degrees C) | Other (circle): Fe+2 (mg/L) Eh (mV) ( ) ORP | Notes (e.g. pump setting, adjustments) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1320 | 0 | 0 | | | | | | | | Start purge. |
| 1324 | 0.25 | 1 | 5.45 | 5.40 | 0.258 | 37.8 | 0 | 17.8 | 51 | |
| 1328 | 0.25 | 2 5.40 | ~~5.40~~ | 5.36 | 0.257 | 27.9 | 0 | 17.9 | 53 | |
| 1332 | 0.25 | 3 | 5.45 | 5.38 | 0.259 | 27.9 | 0 | 18.0 | 55 | |
| | | | | | | | | | | FE 1.5 |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | End purge. |

Time Samples Collected: 1332 — Note Any Sampling Problem: None

Sample Appearance: clear — Equipment Decontamination: None

Laboratory: Curtis&Tompkins — Purge Water Disposition: On site tank

Water Meter Model/No: Horiba u22XD Solinst 101 reel

### LABORATORY SAMPLE INFORMATION

| Analysis | Analysis Method | Container Type | Volume (ml) | Number of Containers | Sample Filtered? | Preservative | Notes |
|---|---|---|---|---|---|---|---|
| TPHg | 8015B | VOA | 40 | 9 | ☐ | HCl | |
| VOCs Low Level | 8260B | VOA | 40 | 9 | ☐ | HCl | Include ethanol, isopropanol |
| SVOCs | 8270C | Amber Glass | 1000 | 6 | ☐ | None | Report to MDL. |
| Metals, dissolved | 6020B/ 7470A | Poly | 500 | 3 | ☑ | HNO3 | |
| TPHd, TPHo w/ SGCU | 8015B | Amber Glass | 1000 | 3 | ☐ | None | Report to MDL. |
| PCB Congeners | 8082 | Amber Glass | 1000 | 3 | ☐ | None | Report to MDL. |
| PAHs | 8310 | Amber Glass | 1000 | 3 | ☐ | None | Report to MDL. |

Comments:

Signature: John R. Shoal — Date: 8-15-05

## SAMPLING/DEVELOPMENT INFORMATION

ACTON • MICKELSON • ENVIRONMENTAL, INC.
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762

Project Name: Former Georgia-Pacific Sawmill
Facility/ Address: 90 West Redwood Avenue, Fort Bragg, CA
Project Number: 16017.01

**Well/ Sample Location: MW-2.2**
Sample ID: MW-2.2-08 15 05
QA/QC Sample IDs:
MS/MSD for this Sample? ☐
Location Description: Monitoring Well
Well Condition: OK

**Date: 8/15/2005**
Field Crew: TEC, JRS, JDM
Purging Subcontractor: NA
Weather: cloudy
FID/PID at Well Headspace (ppm): NA

### PURGING PARAMETERS

Casing Diameter (D, inches) 4
Approx. Screen Depth (feet bmp): 5.00 to 19.75
Depth to Water (H, feet bmp): 4.14
Casing Volume (gallons): NA
Calculated Purge Volume (gallons): NA
Note if LPH (feet thickness):

CASING VOLUME: ([TD-H]*[3.14*(D/24)2]*[7.48 gallons/ft3
0.65*[TD-H] for 4-inch well; 0.16*[TD-H] for 2-inch wel

### PURGING/SAMPLING METHODS

| | Purging | Sampling | Notes |
|---|---|---|---|
| Low Flow | ☑ | ☑ | |
| Peristaltic Pump | ☑ | ☑ | |
| Submersible Pump | ☐ | ☐ | |
| Bailer | ☐ | ☐ | |
| Tap/ Other | ☐ | ☐ | |
| Dedicated Equipment? | ☐ | ☐ | |

Intake Depth (feet bmp): ≈ 16.5'

### PURGING AND WATER QUALITY DATA

| Time | Purge Rate (gpm) (lpm) or Increment (gal) (l) | Cumulative Water Removed (gal) (l) | Depth to Water (feet bmp) | pH (units) | Specific Conductance (mS/cm) | Turbidity (NTU) | Dissolved Oxygen (mg/L) | Temperature (degrees C) | Other (circle): Fe+2 (mg/L) Eh (mV) ( ) | Notes (e.g. pump setting, adjustments) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1500 | 0 | 0 | | | | | | | ORP | Start purge. |
| 1504 | 0.25 | 1 | 4.15 | 6.50 | 0.260 | 12.2 | 2.15 | 17.0 | 72 | |
| 1508 | 0.25 | 2 | 4.16 | 6.49 | 0.259 | 6.1 | 1.30 | 17.0 | 77 | |
| 1512 | 0.25 | 3 | 4.17 | 6.47 | 0.257 | 2.6 | 1.24 | 17.0 | 83 | |
| 1516 | 0.25 | 4 | 4.17 | 6.46 | 0.256 | 2.8 | 1.25 | 17.0 | 85 | Fe 0.0 |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | End purge. |

Time Samples Collected: 1518
Sample Appearance: clear
Laboratory: Curtis&Tompkins
Note Any Sampling Problem: None
Equipment Decontamination: None
Purge Water Disposition: On site tank
Water Meter Model/No: Horiba U22XD Solinst 101 reel

### LABORATORY SAMPLE INFORMATION

| Analysis | Analysis Method | Container Type | Volume (ml) | Number of Containers | Sample Filtered? | Preservative | Notes |
|---|---|---|---|---|---|---|---|
| TPHg | 8015B | VOA | 40 | 3 | ☐ | HCl | |
| VOCs Low Level | 8260B | VOA | 40 | 3 | ☐ | HCl | Include ethanol, isopropanol |
| SVOCs | 8270C | Amber Glass | 1000 | 2 | ☐ | None | Report to MDL. |
| Metals, dissolved | 6020B/ 7470A | Poly | 500 | 1 | ☑ | HNO3 | |
| TPHd, TPHo w/ SGCU | 8015B | Amber Glass | 1000 | 1 | ☐ | None | Report to MDL. |
| PCB Congeners | 8082 | Amber Glass | 1000 | 1 | ☐ | None | Report to MDL. |
| PAHs | 8310 | Amber Glass | 1000 | 1 | ☐ | None | Report to MDL. |

Comments: Chemets D.O. = 2.0

Signature: John R Shaal

Date: 8-15-05

## SAMPLING/DEVELOPMENT INFORMATION

ACTON • MICKELSON • ENVIRONMENTAL, INC.
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762

Project Name: Former Georgia-Pacific Sawmill
Facility/ Address: 90 West Redwood Avenue, Fort Bragg, CA
Project Number: 16017.01

**Well/ Sample Location: MW-2.3**
Sample ID: MW-2.3-08 15 05
QA/QC Sample IDs:
MS/MSD for this Sample? ☐
Location Description: Monitoring Well
Well Condition: OK

**Date:** 8/15/2005
Field Crew: TEC, JRS, JDM
Purging Subcontractor: NA
Weather: cloudy
FID/PID at Well Headspace (ppm): NA

### PURGING PARAMETERS

Casing Diameter (D, inches) 4
Approx. Screen Depth (feet bmp): 5.00 to 19.75
Depth to Water (H, feet bmp): 5.35
Casing Volume (gallons): NA
Calculated Purge Volume (gallons): NA
Note if LPH (feet thickness):

CASING VOLUME: ([TD-H]*[3.14*(D/24)2]*[7.48 gallons/ft3
0.65*[TD-H] for 4-inch well; 0.16*[TD-H] for 2-inch wel

### PURGING/SAMPLING METHODS

| | Purging | Sampling | Notes |
|---|---|---|---|
| Low Flow | ☑ | ☑ | |
| Peristaltic Pump | ☑ | ☑ | |
| Submersible Pump | ☐ | ☐ | |
| Bailer | ☐ | ☐ | |
| Tap/ Other | ☐ | ☐ | |
| Dedicated Equipment? | ☐ | ☐ | |

Intake Depth (feet bmp): ≈ 17.00'

### PURGING AND WATER QUALITY DATA

| Time | Purge Rate (gpm) (lpm) or Increment (gal) (l) | Cumulative Water Removed (gal) (l) | Depth to Water (feet bmp) | pH (units) | Specific Conductance (mS/cm) | Turbidity (NTU) | Dissolved Oxygen (mg/L) | Temperature (degrees C) | Other (circle): Fe+2 (mg/L) Eh (mV) ( ) | Notes (e.g. pump setting, adjustments) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1605 | 0 | 0 | | | | | | | ORP | Start purge. |
| 1609 | 0.25 | 1 | 5.39 | 5.98 | 0.238 | 28.7 | .30 | 14.8 | 111 | |
| 1613 | 0.25 | 2 | 5.39 | 5.96 | 0.235 | 20.3 | 0.05 | 14.8 | 113 | |
| 1617 | 0.25 | 3 | 5.39 | 5.98 | 0.237 | 15.3 | 0.03 | 14.8 | 114 | |
| 1621 | 0.25 | 4 | 5.39 | 5.99 | 0.236 | 16.0 | 0.00 | 14.7 | 116 | Fe = 0.0 |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | End purge. |

Time Samples Collected: 1625
Sample Appearance: clear
Laboratory: Curtis&Tompkins
Note Any Sampling Problem: None
Equipment Decontamination: None
Purge Water Disposition: On site tank
Water Meter Model/No: Horiba U22XD Solinst 101 reel

### LABORATORY SAMPLE INFORMATION

| Analysis | Analysis Method | Container Type | Volume (ml) | Number of Containers | Sample Filtered? | Preservative | Notes |
|---|---|---|---|---|---|---|---|
| TPHg | 8015B | VOA | 40 | 3 | ☐ | HCl | |
| VOCs Low Level | 8260B | VOA | 40 | 3 | ☐ | HCl | Include ethanol, isopropanol |
| SVOCs | 8270C | Amber Glass | 1000 | 2 | ☐ | None | Report to MDL. |
| Metals, dissolved | 6020B/ 7470A | Poly | 500 | 1 | ☑ | HNO3 | |
| TPHd, TPHo w/ SGCU | 8015B | Amber Glass | 1000 | 1 | ☐ | None | Report to MDL. |
| PCB Congeners | 8082 | Amber Glass | 1000 | 1 | ☐ | None | Report to MDL. |
| PAHs | 8310 | Amber Glass | 1000 | 1 | ☐ | None | Report to MDL. |

Comments:

Signature: John R Shaal
Date: 8-15-05

## SAMPLING/DEVELOPMENT INFORMATION

ACTON • MICKELSON • ENVIRONMENTAL, INC.
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762

Project Name: Former Georgia-Pacific Sawmill
Facility/ Address: 90 West Redwood Avenue, Fort Bragg, CA
Project Number: 16017.01

**Well/ Sample Location: SP-3.1**

Sample ID: SP-3.1-08 19 05

QA/QC Sample IDs:

MS/MSD for this Sample? ☐

Location Description: Spring

Well Condition: NA/ Spring

**Date:** 8/19/2005

Field Crew: TEC/JRS-JDM

Purging Subcontractor: NA

Weather: overcast

FID/PID at Well Headspace (ppm): NA

### PURGING PARAMETERS

Casing Diameter (D, inches) NA

Approx. Screen Depth (feet bmp): NA to

Depth to Water (H, feet bmp): NA

Casing Volume (gallons): NA

Calculated Purge Volume (gallons): NA

Note if LPH (feet thickness):

CASING VOLUME: ([TD-H]*[3.14*(D/24)2]*[7.48 gallons/ft3
0.65*[TD-H] for 4-inch well; 0.16*[TD-H] for 2-inch wel

### PURGING/SAMPLING METHODS

| | Purging | Sampling | Notes |
|---|---|---|---|
| Low Flow | ☑ | ☑ | |
| Peristaltic Pump | ☑ | ☑ | |
| Submersible Pump | ☐ | ☐ | |
| Bailer | ☐ | ☐ | |
| Tap/ Other | ☐ | ☐ | |
| Dedicated Equipment? | ☐ | ☐ | |

Intake Depth (feet bmp): NA

### PURGING AND WATER QUALITY DATA

| Time | Purge Rate (gpm) (lpm) or Increment (gal) (l) | Cumulative Water Removed (gal) (l) | Depth to Water (feet bmp) | pH (units) | Specific Conductance (mS/cm) | Turbidity (NTU) | Dissolved Oxygen (mg/L) | Temperature (degrees C) | Other (circle): Fe+2 (mg/L) Eh (mV) ( ) | Notes (e.g. pump setting, adjustments) |
|---|---|---|---|---|---|---|---|---|---|---|
| 0830 | 0 | 0 | | | | | | | ORP | Start purge. |
| 0834 | 0.25 | 1 | | 6.43 | 0.238 | 0.0 | 4.33 | 17.8 | 78 | |
| 0838 | 0.25 | 2 | | 6.47 | 0.239 | 0.0 | 3.86 | 19.9 | 83 | |
| 0842 | 0.25 | 3 | | 6.48 | 0.237 | 0.0 | 3.79 | 17.9 | 87 | |
| | | | | | | | | | | Fe = 0.0 |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | End purge. |

Time Samples Collected: 0845

Sample Appearance: clear

Laboratory: Curtis&Tompkins

Note Any Sampling Problem: none

Equipment Decontamination: None

Purge Water Disposition: On site tank

Water Meter Model/No: Horiba U22XD

### LABORATORY SAMPLE INFORMATION

| Analysis | Analysis Method | Container Type | Volume (ml) | Number of Containers | Sample Filtered? | Preservative | Notes |
|---|---|---|---|---|---|---|---|
| TPHg | 8015B | VOA | 40 | 3 | ☐ | HCl | |
| VOCs Low Level | 8260B | VOA | 40 | 3 | ☐ | HCl | Include ethanol, isopropanol |
| SVOCs | 8270C | Amber Glass | 1000 | 2 | ☐ | None | Report to MDL. |
| Metals, dissolved | 6020B/ 7470A | Poly | 500 | 1 | ☑ | HNO3 | |
| TPHd, TPHo w/ SGCU | 8015B | Amber Glass | 1000 | 1 | ☐ | None | Report to MDL. |
| PCB Congeners | 8082 | Amber Glass | 1000 | 1 | ☐ | None | Report to MDL. |
| PAHs | 8310 | Amber Glass | 1000 | 1 | ☐ | None | Report to MDL. |

flow = 4 seconds/3 cups (repeated 5 times)

Comments:

Signature: John R Shaal

Date: 8-19-05

## SAMPLING/DEVELOPMENT INFORMATION

ACTON • MICKELSON • ENVIRONMENTAL, INC.
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762

Project Name: Former Georgia-Pacific Sawmill
Facility/ Address: 90 West Redwood Avenue, Fort Bragg, CA
Project Number: 16017.01

**Well/ Sample Location: MW-3.1** — **Date: 8/16/2005**

Sample ID: MW-3.1-08~~1~~16~~0~~05 — Field Crew: TEC, JRS, JDM

QA/QC Sample IDs: MW-DUP1-08~~1~~16~~0~~5 — Purging Subcontractor: NA

MS/MSD for this Sample? ☐ — Weather: overcast/misty

Location Description: Monitoring Well — FID/PID at Well Headspace (ppm): NA

Well Condition: OK

### PURGING PARAMETERS

Casing Diameter (D, inches) 4

Approx. Screen Depth (feet bmp): 4.50 to 24.25

Depth to Water (H, feet bmp): 8.35 8/16/05

Casing Volume (gallons): NA

Calculated Purge Volume (gallons): NA

Note if LPH (feet thickness):

CASING VOLUME: ([TD-H]*[3.14*(D/24)2]*[7.48 gallons/ft3
0.65*[TD-H] for 4-inch well; 0.16*[TD-H] for 2-inch wel

### PURGING/SAMPLING METHODS

| | Purging | Sampling | Notes |
|---|---|---|---|
| Low Flow | ☑ | ☑ | |
| Peristaltic Pump | ☑ | ☑ | |
| Submersible Pump | ☐ | ☐ | |
| Bailer | ☐ | ☐ | |
| Tap/ Other | ☐ | ☐ | |
| Dedicated Equipment? | ☐ | ☐ | |

Intake Depth (feet bmp): ≥ 21.25

### PURGING AND WATER QUALITY DATA

| Time | Purge Rate (gpm) (lpm) or Increment (gal) (l) | Cumulative Water Removed (gal) (l) | Depth to Water (feet bmp) | pH (units) | Specific Conduct-ance (mS/cm) | Turbidity (NTU) | Dissolved Oxygen (mg/L) | Temper-ature (degrees C) | Other (circle): Fe+2 (mg/L) Eh (mV) ( ) | Notes (e.g. pump setting, adjustments) |
|---|---|---|---|---|---|---|---|---|---|---|
| 0830 | 0 | 0 | | | | | | | | Start purge. |
| 0834 | 0.25 | 1 | 8.35 | 6.37 | 0.268 | 16.2 | 5.71 | 17.0 | | |
| 0838 | 0.25 | 2 | 8.35 | 6.41 | 0.266 | 17.9 | 5.21 | 17.1 | | |
| 0842 | 0.25 | 3 | 8.35 | 6.40 | 0.263 | 16.7 | 5.1 | 17.1 | | Fe 0.0 |
| | | | | | | | | | ORP | |
| | | | | | | | | | 83 | |
| | | | | | | | | | 86 | |
| | | | | | | | | | 86 | |
| | | | | | | | | | | End purge. |

Time Samples Collected: 0845 — Note Any Sampling Problem: None

Sample Appearance: clear — Equipment Decontamination: None

Laboratory: Curtis&Tompkins — Purge Water Disposition: On site tank

Water Meter Model/No: Horiba U22XD Solinst 101 Reel

### LABORATORY SAMPLE INFORMATION

| Analysis | Analysis Method | Container Type | Volume (ml) | Number of Containers | Sample Filtered? | Preservative | Notes |
|---|---|---|---|---|---|---|---|
| TPHg | 8015B | VOA | 40 | 6 | ☐ | HCl | |
| VOCs Low Level | 8260B | VOA | 40 | 6 | ☐ | HCl | Include ethanol, isopropanol |
| SVOCs | 8270C | Amber Glass | 1000 | 4 | ☐ | None | Report to MDL. |
| Metals, dissolved | 6020B/ 7470A | Poly | 500 | 2 | ☑ | HNO3 | |
| TPHd, TPHo w/ SGCU | 8015B | Amber Glass | 1000 | 2 | ☐ | None | Report to MDL. |
| PCB Congeners | 8082 | Amber Glass | 1000 | 2 | ☐ | None | Report to MDL. |
| PAHs | 8310 | Amber Glass | 1000 | 2 | ☐ | None | Report to MDL. |

Comments:

Signature: John R Shaal — Date: 8-16-05

## SAMPLING/DEVELOPMENT INFORMATION

ACTON • MICKELSON • ENVIRONMENTAL, INC.
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762

Project Name: Former Georgia-Pacific Sawmill
Facility/ Address: 90 West Redwood Avenue, Fort Bragg, CA
Project Number: 16017.01

**Well/ Sample Location: MW-3.2**
Sample ID: MW-3.2-08 16 05
QA/QC Sample IDs:
MS/MSD for this Sample? ☐
Location Description: Monitoring Well
Well Condition: OK

**Date:** 8/16/2005
Field Crew: TEC/JRS/JDM
Purging Subcontractor: NA
Weather: overcast
FID/PID at Well Headspace (ppm): NA

### PURGING PARAMETERS

Casing Diameter (D, inches) 4
Approx. Screen Depth (feet bmp): 8.00 to 23.25
Depth to Water (H, feet bmp): 8.42 8/16/05
Casing Volume (gallons): NA
Calculated Purge Volume (gallons): NA
Note if LPH (feet thickness):

CASING VOLUME: ([TD-H]*[3.14*(D/24)2]*[7.48 gallons/ft3
0.65*[TD-H] for 4-inch well; 0.16*[TD-H] for 2-inch wel

### PURGING/SAMPLING METHODS

| | Purging | Sampling | Notes |
|---|---|---|---|
| Low Flow | ☑ | ☑ | |
| Peristaltic Pump | ☑ | ☑ | |
| Submersible Pump | ☐ | ☐ | |
| Bailer | ☐ | ☐ | |
| Tap/ Other | ☐ | ☐ | |
| Dedicated Equipment? | ☐ | ☐ | |

Intake Depth (feet bmp): ~ 20

### PURGING AND WATER QUALITY DATA

| Time | Purge Rate (gpm) (lpm) or Increment (gal) (l) | Cumulative Water Removed (gal) (l) | Depth to Water (feet bmp) | pH (units) | Specific Conductance (mS/cm) | Turbidity (NTU) | Dissolved Oxygen (mg/L) | Temperature (degrees C) | Other (circle): Fe+2 (mg/L) Eh (mV) ( ) | Notes (e.g. pump setting, adjustments) |
|---|---|---|---|---|---|---|---|---|---|---|
| 0933 | 0 | 0 | | | | | | | ORP | Start purge. |
| 0937 | 0.25 | 1 | 8.42 | 6.59 | 0.311 | 77.4 | 7.37 | 17.2 | 77 | |
| 0941 | 0.25 | 2 | 8.42 | 6.48 | 0.276 | 37.9 | 6.33 | 17.4 | 67 | |
| 0945 | 0.25 | 3 | 8.42 | 6.42 | 0.251 | 24.0 | 5.76 | 17.5 | 52 | Fe=0.0 |
| 0949 | 0.25 | 4 | 8.42 | 6.40 | 0.248 | 23.0 | 5.59 | 17.5 | 49 | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | End purge. |

Time Samples Collected: 0950
Sample Appearance: sl. cloudy
Laboratory: Curtis&Tompkins

Note Any Sampling Problem: None
Equipment Decontamination: None
Purge Water Disposition: On site tank

Water Meter Model/No: Horiba U22XD Solinst 101 Reel

### LABORATORY SAMPLE INFORMATION

| Analysis | Analysis Method | Container Type | Volume (ml) | Number of Containers | Sample Filtered? | Preservative | Notes |
|---|---|---|---|---|---|---|---|
| TPHg | 8015B | VOA | 40 | 3 | ☐ | HCl | |
| VOCs Low Level | 8260B | VOA | 40 | 3 | ☐ | HCl | Include ethanol, isopropanol |
| SVOCs | 8270C | Amber Glass | 1000 | 2 | ☐ | None | Report to MDL. |
| Metals, dissolved | 6020B/ 7470A | Poly | 500 | 1 | ☑ | HNO3 | |
| TPHd, TPHo w/ SGCU | 8015B | Amber Glass | 1000 | 1 | ☐ | None | Report to MDL. |
| PCB Congeners | 8082 | Amber Glass | 1000 | 1 | ☐ | None | Report to MDL. |
| PAHs | 8310 | Amber Glass | 1000 | 1 | ☐ | None | Report to MDL. |

Comments:

Signature: John R Shaal
Date: 8-16-05

## SAMPLING/DEVELOPMENT INFORMATION

ACTON • MICKELSON • ENVIRONMENTAL, INC.
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762

Project Name: Former Georgia-Pacific Sawmill
Facility/ Address: 90 West Redwood Avenue, Fort Bragg, CA
Project Number: 16017.01

**Well/ Sample Location:** MW-3.3 **Date:** 8/16/2005

Sample ID: MW-3.3-081605 Field Crew: TEC/JRS/JDM

QA/QC Sample IDs: Purging Subcontractor: NA

MS/MSD for this Sample? ☐ Weather: cloudy

Location Description: Monitoring Well FID/PID at Well Headspace (ppm): NA

Well Condition: OK Blk widows!

### PURGING PARAMETERS

Casing Diameter (D, inches) 4

Approx. Screen Depth (feet bmp): 5.00 to 24.75

Depth to Water (H, feet bmp): 6.55 8/16/05

Casing Volume (gallons): NA

Calculated Purge Volume (gallons): NA

Note if LPH (feet thickness):

CASING VOLUME: ([TD-H]*[3.14*(D/24)2]*[7.48 gallons/ft3
0.65*[TD-H] for 4-inch well; 0.16*[TD-H] for 2-inch wel

### PURGING/SAMPLING METHODS

| | Purging | Sampling | Notes |
|---|---|---|---|
| Low Flow | ☑ | ☑ | |
| Peristaltic Pump | ☑ | ☑ | |
| Submersible Pump | ☐ | ☐ | |
| Bailer | ☐ | ☐ | |
| Tap/ Other | ☐ | ☐ | |
| Dedicated Equipment? | ☐ | ☐ | |

Intake Depth (feet bmp): 2-21

### PURGING AND WATER QUALITY DATA

| Time | Purge Rate (gpm) (lpm) or Increment (gal) (l) | Cumulative Water Removed (gal) (l) | Depth to Water (feet bmp) | pH (units) | Specific Conduct-ance (mS/cm) | Turbidity (NTU) | Dissolved Oxygen (mg/L) | Temper-ature (degrees C) | Other (circle): Fe+2 (mg/L) Eh (mV) ( ) | Notes (e.g. pump setting, adjustments) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1022 | 0 | 0 | | | | | | | ORB | Start purge. |
| 1026 | 0.25 | 1 | 6.55 | 7.14 | 0.391 | 14.5 | 6.17 | 16.3 | 93 | |
| 1030 | 0.25 | 2 | 6.55 | 7.18 | 0.393 | 8.9 | 5.99 | 16.4 | 90 | |
| 1034 | 0.25 | 3 | 6.55 | 7.21 | 0.394 | 8.7 | 6.01 | 16.4 | 83 | Fe = 0.0 |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | End purge. |

Time Samples Collected: 1035 Note Any Sampling Problem: None

Sample Appearance: clear Equipment Decontamination: None

Laboratory: Curtis&Tompkins Purge Water Disposition: On site tank

Water Meter Model/No: Horiba U22XD Solinst 101 Reel

### LABORATORY SAMPLE INFORMATION

| Analysis | Analysis Method | Container Type | Volume (ml) | Number of Containers | Sample Filtered? | Preservative | Notes |
|---|---|---|---|---|---|---|---|
| TPHg | 8015B | VOA | 40 | 3 | ☐ | HCl | |
| VOCs Low Level | 8260B | VOA | 40 | 3 | ☐ | HCl | Include ethanol, isopropanol |
| SVOCs | 8270C | Amber Glass | 1000 | 2 | ☐ | None | Report to MDL. |
| Metals, dissolved | 6020B/ 7470A | Poly | 500 | 1 | ☑ | HNO3 | |
| TPHd, TPHo w/ SGCU | 8015B | Amber Glass | 1000 | 1 | ☐ | None | Report to MDL. |
| PCB Congeners | 8082 | Amber Glass | 1000 | 1 | ☐ | None | Report to MDL. |
| PAHs | 8310 | Amber Glass | 1000 | 1 | ☐ | None | Report to MDL. |

Comments: chemets DO = 1.0

Signature: John R Shaal Date: 8-16-05

## SAMPLING/DEVELOPMENT INFORMATION

ACTON • MICKELSON • ENVIRONMENTAL, INC.
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762

Project Name: Former Georgia-Pacific Sawmill
Facility/ Address: 90 West Redwood Avenue, Fort Bragg, CA
Project Number: 16017.01

**Well/ Sample Location: MW-3.4**

**Date: 8/16/2005**

Sample ID: MW-3.4-08 16 05

Field Crew: TEC/JRS/JDM

QA/QC Sample IDs:

Purging Subcontractor: NA

MS/MSD for this Sample? ☐

Weather: cloudy

Location Description: Monitoring Well

FID/PID at Well Headspace (ppm): NA

Well Condition: OK

### PURGING PARAMETERS

Casing Diameter (D, inches) 4

Approx. Screen Depth (feet bmp): 4.10 to 9.75

Depth to Water (H, feet bmp): 2.9 8/16/05

Casing Volume (gallons): NA

Calculated Purge Volume (gallons): NA

Note if LPH (feet thickness):

CASING VOLUME: ([TD-H]*[3.14*(D/24)2]*[7.48 gallons/ft3
0.65*[TD-H] for 4-inch well; 0.16*[TD-H] for 2-inch wel

### PURGING/SAMPLING METHODS

| | Purging | Sampling | Notes |
|---|---|---|---|
| Low Flow | ☑ | ☑ | |
| Peristaltic Pump | ☑ | ☑ | |
| Submersible Pump | ☐ | ☐ | |
| Bailer | ☐ | ☐ | |
| Tap/ Other | ☐ | ☐ | |
| Dedicated Equipment? | ☐ | ☐ | |

Intake Depth (feet bmp): 2 7

### PURGING AND WATER QUALITY DATA

| Time | Purge Rate (gpm) (lpm) or Increment (gal) (l) | Cumulative Water Removed (gal) (l) | Depth to Water (feet bmp) | pH (units) | Specific Conduct-ance (mS/cm) | Turbidity (NTU) | Dissolved Oxygen (mg/L) | Temper-ature (degrees C) | Other (circle): Fe+2 (mg/L) Eh (mV) ( ) | Notes (e.g. pump setting, adjustments) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1105 | 0 | 0 | | | | | | | ORP | Start purge. |
| 1109 | 0.25 | 1 | 3.41 | 12.35 | 0.999 | 8.2 | 7.38 | 20.7 | -208 | |
| 1113 | 0.25 | 2 | 3.75 | 12.28 | 0.883 | 5.2 | 6.19 | 21.0 | -205 | |
| 1117 | 0.25 | 3 | 4.30 | 12.08 | 0.670 | 6.2 | 5.71 | 21.2 | -163 | |
| 1121 | 0.25 | 4 | 4.41 | 11.9 | 0.650 | 6.5 | 5.80 | 21.4 | -137 | Fe = 0.0 |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | End purge. |

Time Samples Collected: 1123

Note Any Sampling Problem: None

Sample Appearance: clear

Equipment Decontamination: None

Laboratory: Curtis&Tompkins

Purge Water Disposition: On site tank

Water Meter Model/No: Horiba U22XD Solinst 101 Reel

### LABORATORY SAMPLE INFORMATION

| Analysis | Analysis Method | Container Type | Volume (ml) | Number of Containers | Sample Filtered? | Preservative | Notes |
|---|---|---|---|---|---|---|---|
| TPHg | 8015B | VOA | 40 | 3 | ☐ | HCl | |
| VOCs Low Level | 8260B | VOA | 40 | 3 | ☐ | HCl | Include ethanol, isopropanol |
| SVOCs | 8270C | Amber Glass | 1000 | 2 | ☐ | None | Report to MDL. |
| Metals, dissolved | 6020B/ 7470A | Poly | 500 | 1 | ☑ | HNO3 | |
| TPHd, TPHo w/ SGCU | 8015B | Amber Glass | 1000 | 1 | ☐ | None | Report to MDL. |
| PCB Congeners | 8082 | Amber Glass | 1000 | 1 | ☐ | None | Report to MDL. |
| PAHs | 8310 | Amber Glass | 1000 | 1 | ☐ | None | Report to MDL. |

Comments:

Signature: John P Schaal

Date: 8-16-05

## SAMPLING/DEVELOPMENT INFORMATION

ACTON • MICKELSON • ENVIRONMENTAL, INC.
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762

Project Name: Former Georgia-Pacific Sawmill
Facility/ Address: 90 West Redwood Avenue, Fort Bragg, CA
Project Number: 16017.01

**Well/ Sample Location: MW-3.5** **Date: 8/16/2005**

Sample ID: MW-3.5-081605 Field Crew: TEC/JRS/JDM

QA/QC Sample IDs: Purging Subcontractor: NA

MS/MSD for this Sample? ☐ Weather: cloudy

Location Description: Monitoring Well FID/PID at Well Headspace (ppm): NA

Well Condition: OK

### PURGING PARAMETERS

Casing Diameter (D, inches) 4

Approx. Screen Depth (feet bmp): 2.50 to 12.50

Depth to Water (H, feet bmp): 3.15 8/16/05

Casing Volume (gallons): NA

Calculated Purge Volume (gallons): NA

Note if LPH (feet thickness):

CASING VOLUME: ([TD-H]*[3.14*(D/24)2]*[7.48 gallons/ft3
0.65*[TD-H] for 4-inch well; 0.16*[TD-H] for 2-inch wel

### PURGING/SAMPLING METHODS

| | Purging | Sampling | Notes |
|---|---|---|---|
| Low Flow | ☑ | ☑ | |
| Peristaltic Pump | ☑ | ☑ | |
| Submersible Pump | ☐ | ☐ | |
| Bailer | ☐ | ☐ | |
| Tap/ Other | ☐ | ☐ | |
| Dedicated Equipment? | ☐ | ☐ | |

Intake Depth (feet bmp): 2 10

### PURGING AND WATER QUALITY DATA

| Time | Purge Rate (gpm) (lpm) or Increment (gal) (l) | Cumulative Water Removed (gal) (l) | Depth to Water (feet bmp) | pH (units) | Specific Conduct-ance (mS/cm) | Turbidity (NTU) | Dissolved Oxygen (mg/L) | Temper-ature (degrees C) | Other (circle): Fe+2 (mg/L) Eh (mV) ( ) | Notes (e.g. pump setting, adjustments) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1201 | 0 | 0 | | | | | | | ORP | Start purge. |
| 1205 | 0.25 | 1 | 3.15 | 6.87 | 0.315 | 0.0 | 5.96 | 21.0 | 89 | |
| 1209 | 0.25 | 2 | 3.25 | 6.68 | 0.318 | 0.1 | 5.42 | 21.0 | 90 | |
| 1213 | 0.25 | 3 | 3.29 | 6.59 | 0.316 | 0.0 | 5.30 | 21.0 | 91 | |
| | | | | | | | | | | Fe = 0.0 |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | End purge. |

Time Samples Collected: 1215 Note Any Sampling Problem: None

Sample Appearance: clear Equipment Decontamination: None

Laboratory: Curtis&Tompkins Purge Water Disposition: On site tank

Water Meter Model/No: Horiba U22XD Solinst 101 Reel

### LABORATORY SAMPLE INFORMATION

| Analysis | Analysis Method | Container Type | Volume (ml) | Number of Containers | Sample Filtered? | Preservative | Notes |
|---|---|---|---|---|---|---|---|
| TPHg | 8015B | VOA | 40 | 3 | ☐ | HCl | |
| VOCs Low Level | 8260B | VOA | 40 | 3 | ☐ | HCl | Include ethanol, isopropanol |
| SVOCs | 8270C | Amber Glass | 1000 | 2 | ☐ | None | Report to MDL. |
| Metals, dissolved | 6020B/ 7470A | Poly | 500 | 1 | ☑ | HNO3 | |
| TPHd, TPHo w/ SGCU | 8015B | Amber Glass | 1000 | 1 | ☐ | None | Report to MDL. |
| PCB Congeners | 8082 | Amber Glass | 1000 | 1 | ☐ | None | Report to MDL. |
| PAHs | 8310 | Amber Glass | 1000 | 1 | ☐ | None | Report to MDL. |

Comments:

Signature: John R Shaal Date: 8-16-05

## SAMPLING/DEVELOPMENT INFORMATION

ACTON • MICKELSON • ENVIRONMENTAL, INC.
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762

Project Name: Former Georgia-Pacific Sawmill
Facility/ Address: 90 West Redwood Avenue, Fort Bragg, CA
Project Number: 16017.01

**Well/ Sample Location: MW-3.6** **Date: 8/16/2005**

Sample ID: MW-3.6-0816 05 Field Crew: TEC/JRS/JDM

QA/QC Sample IDs: Purging Subcontractor: NA

MS/MSD for this Sample? ☐ Weather: cloudy

Location Description: Monitoring Well FID/PID at Well Headspace (ppm): NA

Well Condition: OK

### PURGING PARAMETERS

Casing Diameter (D, inches) 4

Approx. Screen Depth (feet bmp): 2.50 to 12.50

Depth to Water (H, feet bmp): 1.89 8/16/05

Casing Volume (gallons): NA

Calculated Purge Volume (gallons): NA

Note if LPH (feet thickness):

CASING VOLUME: ([TD-H]*[3.14*(D/24)2]*[7.48 gallons/ft3
0.65*[TD-H] for 4-inch well; 0.16*[TD-H] for 2-inch wel

### PURGING/SAMPLING METHODS

| | Purging | Sampling | Notes |
|---|---|---|---|
| Low Flow | ☑ | ☑ | |
| Peristaltic Pump | ☑ | ☑ | |
| Submersible Pump | ☐ | ☐ | |
| Bailer | ☐ | ☐ | |
| Tap/ Other | ☐ | ☐ | |
| Dedicated Equipment? | ☐ | ☐ | |

Intake Depth (feet bmp): ≈ 10

### PURGING AND WATER QUALITY DATA

| Time | Purge Rate (gpm) (lpm) or Increment (gal) (l) | Cumulative Water Removed (gal) (l) | Depth to Water (feet bmp) | pH (units) | Specific Conduct-ance (mS/cm) | Turbidity (NTU) | Dissolved Oxygen (mg/L) | Temper-ature (degrees C) | Other (circle): Fe+2 (mg/L) Eh (mV) ( ) | Notes (e.g. pump setting, adjustments) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1246 | 0 | 0 | | | | | | | ORP | Start purge. |
| 1250 | 0.25 | 1 | 1.89 | 6.38 | 0.321 | 16.9 | 6.58 | 20.4 | -17 | |
| 1254 | 0.25 | 2 | 1.95 | 6.40 | 0.318 | 16.8 | 5.23 | 20.9 | -20 | |
| 1258 | 0.25 | 3 | 1.99 | 6.38 | 0.317 | 8.0 | 4.84 | 21.1 | -22 | |
| 1302 | 0.25 | 4 | 2.00 | 6.35 | 0.317 | 7.6 | 4.75 | 21.4 | -21 | Fe = 2.4 |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | End purge. |

Time Samples Collected: 1304 Note Any Sampling Problem: None

Sample Appearance: clear Equipment Decontamination: None

Laboratory: Curtis&Tompkins Purge Water Disposition: On site tank

Water Meter Model/No: Horiba U22XD Solinst 100 Reel

### LABORATORY SAMPLE INFORMATION

| Analysis | Analysis Method | Container Type | Volume (ml) | Number of Containers | Sample Filtered? | Preservative | Notes |
|---|---|---|---|---|---|---|---|
| TPHg | 8015B | VOA | 40 | 3 | ☐ | HCl | |
| VOCs Low Level | 8260B | VOA | 40 | 3 | ☐ | HCl | Include ethanol, isopropanol |
| SVOCs | 8270C | Amber Glass | 1000 | 2 | ☐ | None | Report to MDL. |
| Metals, dissolved | 6020B/ 7470A | Poly | 500 | 1 | ☑ | HNO3 | |
| TPHd, TPHo w/ SGCU | 8015B | Amber Glass | 1000 | 1 | ☐ | None | Report to MDL. |
| PCB Congeners | 8082 | Amber Glass | 1000 | 1 | ☐ | None | Report to MDL. |
| PAHs | 8310 | Amber Glass | 1000 | 1 | ☐ | None | Report to MDL. |

Comments:

Signature: John R Shaal Date: 8-16-05

## SAMPLING/DEVELOPMENT INFORMATION

ACTON • MICKELSON • ENVIRONMENTAL, INC.
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762

Project Name: Former Georgia-Pacific Sawmill
Facility/ Address: 90 West Redwood Avenue, Fort Bragg, CA
Project Number: 16017.01

**Well/ Sample Location: MW-3.7** — **Date: 8/17/2005**

Sample ID: MW-3.7-0817 05 — Field Crew: TEC/JRS/JDM

QA/QC Sample IDs: — Purging Subcontractor: NA

MS/MSD for this Sample? ☐ — Weather: foggy

Location Description: Monitoring Well — FID/PID at Well Headspace (ppm): NA

Well Condition: OK No Lock

### PURGING PARAMETERS

Casing Diameter (D, inches) 4

Approx. Screen Depth (feet bmp): 5.00 to 24.75

Depth to Water (H, feet bmp): 7.42 8/17/05

Casing Volume (gallons): NA

Calculated Purge Volume (gallons): NA

Note if LPH (feet thickness):

CASING VOLUME: ([TD-H]*[3.14*(D/24)2]*[7.48 gallons/ft3
0.65*[TD-H] for 4-inch well; 0.16*[TD-H] for 2-inch wel

### PURGING/SAMPLING METHODS

| | Purging | Sampling | Notes |
|---|---|---|---|
| Low Flow | ☑ | ☑ | |
| Peristaltic Pump | ☑ | ☑ | |
| Submersible Pump | ☐ | ☐ | |
| Bailer | ☐ | ☐ | |
| Tap/ Other | ☐ | ☐ | |
| Dedicated Equipment? | ☐ | ☐ | |

Intake Depth (feet bmp): ≈ 22

### PURGING AND WATER QUALITY DATA

| Time | Purge Rate (gpm) (lpm) or Increment (gal) (l) | Cumulative Water Removed (gal) (l) | Depth to Water (feet bmp) | pH (units) | Specific Conductance (mS/cm) | Turbidity (NTU) | Dissolved Oxygen (mg/L) | Temperature (degrees C) | Other (circle): Fe+2 (mg/L) Eh (mV) ( ) | Notes (e.g. pump setting, adjustments) |
|---|---|---|---|---|---|---|---|---|---|---|
| 0807 | 0 | 0 | | | | | | | ORP | Start purge. |
| 0811 | 0.25 | 1 | 7.49 | 6.69 | 0.509 | 19.0 | ~~20.10~~ 1.93 | 16.3 | -14 | |
| 0815 | 0.25 | 2 | 7.51 | 7.02 | 0.513 | 8.6 | 0.50 | 16.7 | -39 | |
| 0819 | 0.25 | 3 | 7.51 | 7.07 | 0.511 | 8.2 | 0.34 | 16.8 | -46 | |
| | | | | | | | | | | Fe= 0.5 |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | End purge. |

Time Samples Collected: 0820 — Note Any Sampling Problem: none

Sample Appearance: clear — Equipment Decontamination: None

Laboratory: Curtis&Tompkins — Purge Water Disposition: On site tank

Water Meter Model/No: Horiba U22XD Solinst 101 Reel

### LABORATORY SAMPLE INFORMATION

| Analysis | Analysis Method | Container Type | Volume (ml) | Number of Containers | Sample Filtered? | Preservative | Notes |
|---|---|---|---|---|---|---|---|
| TPHg | 8015B | VOA | 40 | 3 | ☐ | HCl | |
| VOCs Low Level | 8260B | VOA | 40 | 3 | ☐ | HCl | Include ethanol, isopropanol |
| SVOCs | 8270C | Amber Glass | 1000 | 2 | ☐ | None | Report to MDL. |
| Metals, dissolved | 6020B/ 7470A | Poly | 500 | 1 | ☑ | HNO3 | |
| TPHd, TPHo w/ SGCU | 8015B | Amber Glass | 1000 | 1 | ☐ | None | Report to MDL. |
| PCB Congeners | 8082 | Amber Glass | 1000 | 1 | ☐ | None | Report to MDL. |
| PAHs | 8310 | Amber Glass | 1000 | 1 | ☐ | None | Report to MDL. |

Comments:

Signature: John R. Shaal — Date: 8-17-05

## SAMPLING/DEVELOPMENT INFORMATION

ACTON • MICKELSON • ENVIRONMENTAL, INC.
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762

Project Name: Former Georgia-Pacific Sawmill
Facility/ Address: 90 West Redwood Avenue, Fort Bragg, CA
Project Number: 16017.01

**Well/ Sample Location: MW-3.8** **Date: 8/17/2005**

Sample ID: MW-3.8-08 17 05 Field Crew: TEC/JRS/JDM

QA/QC Sample IDs: Purging Subcontractor: NA

MS/MSD for this Sample? ☐ Weather: Ptly cloudy

Location Description: Monitoring Well FID/PID at Well Headspace (ppm): NA

Well Condition: ok

### PURGING PARAMETERS

Casing Diameter (D, inches) 4

Approx. Screen Depth (feet bmp): 5.00 to 24.75

Depth to Water (H, feet bmp): 5.46 8/17/05

Casing Volume (gallons): NA

Calculated Purge Volume (gallons): NA

Note if LPH (feet thickness):

CASING VOLUME: ([TD-H]*[3.14*(D/24)2]*[7.48 gallons/ft3
0.65*[TD-H] for 4-inch well; 0.16*[TD-H] for 2-inch wel

### PURGING/SAMPLING METHODS

| | Purging | Sampling | Notes |
|---|---|---|---|
| Low Flow | ☑ | ☑ | |
| Peristaltic Pump | ☑ | ☑ | |
| Submersible Pump | ☐ | ☐ | |
| Bailer | ☐ | ☐ | |
| Tap/ Other | ☐ | ☐ | |
| Dedicated Equipment? | ☐ | ☐ | |

Intake Depth (feet bmp): ≅ 22

### PURGING AND WATER QUALITY DATA

| Time | Purge Rate (gpm) (lpm) or Increment (gal) (l) | Cumulative Water Removed (gal) (l) | Depth to Water (feet bmp) | pH (units) | Specific Conductance (mS/cm) | Turbidity (NTU) | Dissolved Oxygen (mg/L) | Temperature (degrees C) | Other (circle): Fe+2 (mg/L) Eh (mV) ( ) | Notes (e.g. pump setting, adjustments) |
|---|---|---|---|---|---|---|---|---|---|---|
| ~~0950~~ | 0 | 0 | | | | | | | ORP | Start purge. |
| 0850 ~~0954~~ | 0.25 | 1 | 5.47 | 6.76 | 0.415 | 44.6 | 0.80 | 17.5 | 50 | |
| 0854 ~~0958~~ | 0.25 | 2 | 5.47 | 6.64 | 0.402 | 25.0 | 0.42 | 17.7 | 56 | |
| 0858 ~~1002~~ | 0.25 | 3 | 5.72 | 6.56 | 0.400 | 25.7 | 0.40 | 17.8 | 62 | |
| 0902 | | | | | | | | | | Fe = 0.0 |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | End purge. |

Time Samples Collected: 0905 Note Any Sampling Problem: none

Sample Appearance: clear Equipment Decontamination: None

Laboratory: Curtis&Tompkins Purge Water Disposition: On site tank

Water Meter Model/No: Horiba U22XD Solinst 101 Reel

### LABORATORY SAMPLE INFORMATION

| Analysis | Analysis Method | Container Type | Volume (ml) | Number of Containers | Sample Filtered? | Preservative | Notes |
|---|---|---|---|---|---|---|---|
| TPHg | 8015B | VOA | 40 | 3 | ☐ | HCl | |
| VOCs Low Level | 8260B | VOA | 40 | 3 | ☐ | HCl | Include ethanol, isopropanol |
| SVOCs | 8270C | Amber Glass | 1000 | 2 | ☐ | None | Report to MDL. |
| Metals, dissolved | 6020B/ 7470A | Poly | 500 | 1 | ☑ | HNO3 | |
| TPHd, TPHo w/ SGCU | 8015B | Amber Glass | 1000 | 1 | ☐ | None | Report to MDL. |
| PCB Congeners | 8082 | Amber Glass | 1000 | 1 | ☐ | None | Report to MDL. |
| PAHs | 8310 | Amber Glass | 1000 | 1 | ☐ | None | Report to MDL. |

Comments:

Signature: John P Shoal Date: 8-17-05

## SAMPLING/DEVELOPMENT INFORMATION

ACTON • MICKELSON • ENVIRONMENTAL, INC.
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762

Project Name: Former Georgia-Pacific Sawmill
Facility/ Address: 90 West Redwood Avenue, Fort Bragg, CA
Project Number: 16017.01

**Well/ Sample Location: MW-3.9** **Date: 8/17/2005**

Sample ID: MW-3.9-08/17/05 Field Crew: TEC, JRS, JDM

QA/QC Sample IDs: Purging Subcontractor: NA

MS/MSD for this Sample? ☐ Weather: CLOUDY

Location Description: Monitoring Well FID/PID at Well Headspace (ppm): NA

Well Condition: OK, NO LOCK

### PURGING PARAMETERS

Casing Diameter (D, inches) 4"

Approx. Screen Depth (feet bmp): 5.00 to 19.75

Depth to Water (H, feet bmp): 4.85 8/17/05

Casing Volume (gallons): NA

Calculated Purge Volume (gallons): NA

Note if LPH (feet thickness):

CASING VOLUME: ([TD-H]*[3.14*(D/24)2]*[7.48 gallons/ft3
0.65*[TD-H] for 4-inch well; 0.16*[TD-H] for 2-inch wel

### PURGING/SAMPLING METHODS

| | Purging | Sampling | Notes |
|---|---|---|---|
| Low Flow | ☑ | ☑ | |
| Peristaltic Pump | ☑ | ☑ | |
| Submersible Pump | ☐ | ☐ | |
| Bailer | ☐ | ☐ | |
| Tap/ Other | ☐ | ☐ | |
| Dedicated Equipment? | ☐ | ☐ | |

Intake Depth (feet bmp): 16.00±

### PURGING AND WATER QUALITY DATA

| Time | Purge Rate (gpm) (lpm) or Increment (gal) (l) | Cumulative Water Removed (gal) (l) | Depth to Water (feet bmp) | pH (units) | Specific Conduct-ance (mS/cm) | Turbidity (NTU) | Dissolved Oxygen (mg/L) | Temper-ature (degrees C) | Other (circle): Fe+2 (mg/L) Eh (mV) ( ) | Notes (e.g. pump setting, adjustments) |
|---|---|---|---|---|---|---|---|---|---|---|
| 0940 | 0 | 0 | | | | | | | ORP | Start purge. |
| 0944 | 0.25 | 1 | 4.95 | 6.38 | 0.332 | 22.5 | 1.56 | 17.8 | 81 | |
| 0948 | 0.25 | 2 | 4.95 | 6.37 | 0.332 | 22.9 | 0.68 | 18.1 | 80 | |
| 0952 | 0.25 | 3 | 4.95 | 6.36 | 0.341 | 33.3 | 0.59 | 18.2 | 80 | |
| 0956 | 0.25 | 4 | 4.98 | 6.35 | 0.344 | 33.3 | 0.42 | 18.2 | 81 | Fe = 0.00 |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | End purge. |

Time Samples Collected: 0957 Note Any Sampling Problem: NONE

Sample Appearance: CLEAR Equipment Decontamination: None

Laboratory: Curtis&Tompkins Purge Water Disposition: On site tank

Water Meter Model/No: HORIBA U22XD SOLINIST RHEL

### LABORATORY SAMPLE INFORMATION

| Analysis | Analysis Method | Container Type | Volume (ml) | Number of Containers | Sample Filtered? | Preservative | Notes |
|---|---|---|---|---|---|---|---|
| TPHg | 8015B | VOA | 40 | 3 | ☐ | HCl | |
| VOCs Low Level | 8260B | VOA | 40 | 3 | ☐ | HCl | Include ethanol, isopropanol |
| SVOCs | 8270C | Amber Glass | 1000 | 2 | ☐ | None | Report to MDL. |
| Metals, dissolved | 6020B/ 7470A | Poly | 500 | 1 | ☑ | HNO3 | |
| TPHd, TPHo w/ SGCU | 8015B | Amber Glass | 1000 | 1 | ☐ | None | Report to MDL. |
| PCB Congeners | 8082 | Amber Glass | 1000 | 1 | ☐ | None | Report to MDL. |
| PAHs | 8310 | Amber Glass | 1000 | 1 | ☐ | None | Report to MDL. |

Comments:

Signature: John Maxty Date: 8/17/05

## SAMPLING/DEVELOPMENT INFORMATION

ACTON • MICKELSON • ENVIRONMENTAL, INC.
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762

Project Name: Former Georgia-Pacific Sawmill
Facility/ Address: 90 West Redwood Avenue, Fort Bragg, CA
Project Number: 16017.01

**Well/ Sample Location:** MW-4.1
Sample ID: MW-4.1-08 18 05
QA/QC Sample IDs:
MS/MSD for this Sample? ☐
Location Description: Monitoring Well
Well Condition: OK

**Date:** 8/ 18 /2005
Field Crew: TEC/JRS/JDM
Purging Subcontractor: NA
Weather: Misty
FID/PID at Well Headspace (ppm): NA

### PURGING PARAMETERS

Casing Diameter (D, inches) 4
Approx. Screen Depth (feet bmp): 4.65 to 29.90
Depth to Water (H, feet bmp): 5.11 8/15/05
Casing Volume (gallons): NA
Calculated Purge Volume (gallons): NA
Note if LPH (feet thickness):

CASING VOLUME: ([TD-H]*[3.14*(D/24)2]*[7.48 gallons/ft3
0.65*[TD-H] for 4-inch well; 0.16*[TD-H] for 2-inch wel

### PURGING/SAMPLING METHODS

| | Purging | Sampling | Notes |
|---|---|---|---|
| Low Flow | ☑ | ☑ | |
| Peristaltic Pump | ☑ | ☑ | |
| Submersible Pump | ☐ | ☐ | |
| Bailer | ☐ | ☐ | |
| Tap/ Other | ☐ | ☐ | |
| Dedicated Equipment? | ☐ | ☐ | |

Intake Depth (feet bmp): ≈ 27

### PURGING AND WATER QUALITY DATA

| Time | Purge Rate (gpm) (lpm) or Increment (gal) (l) | Cumulative Water Removed (gal) (l) | Depth to Water (feet bmp) | pH (units) | Specific Conduct-ance (mS/cm) | Turbidity (NTU) | Dissolved Oxygen (mg/L) | Temper-ature (degrees C) | Other (circle): Fe+2 (mg/L) Eh (mV) ( ) | Notes (e.g. pump setting, adjustments) |
|---|---|---|---|---|---|---|---|---|---|---|
| 0918 | 0 | 0 | | | | | | | ORP | Start purge. |
| 0922 | 0.25 | 1 | 5.12 | 6.62 | 0.766 | 13.8 | 1.90 | 17.40 | -111 | |
| 0926 | 0.25 | 2 | 5.13 | 6.62 | 0.717 | 13.9 | 1.38 | 17.4 | -112 | |
| 0930 | 0.25 | 3 | 5.16 | 6.62 | 0.695 | 14.5 | 0.88 | 17.5 | -116 | |
| 0934 | 0.25 | 4 | 5.16 | 6.62 | 0.669 | 16.0 | 0.84 | 17.5 | -118 | fe = 6.5 |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | End purge. |

Time Samples Collected: 0940
Sample Appearance: clear
Laboratory: Curtis&Tompkins

Note Any Sampling Problem: none
Equipment Decontamination: None
Purge Water Disposition: On site tank

Water Meter Model/No: Horiba U22XD Solinst 101 Reel

### LABORATORY SAMPLE INFORMATION

| Analysis | Analysis Method | Container Type | Volume (ml) | Number of Containers | Sample Filtered? | Preservative | Notes |
|---|---|---|---|---|---|---|---|
| TPHg | 8015B | VOA | 40 | 3 | ☐ | HCl | |
| VOCs Low Level | 8260B | VOA | 40 | 3 | ☐ | HCl | Include ethanol, isopropanol |
| SVOCs | 8270C | Amber Glass | 1000 | 2 | ☐ | None | Report to MDL. |
| Metals, dissolved | 6020B/ 7470A | Poly | 500 | 1 | ☑ | HNO3 | |
| TPHd, TPHo w/ SGCU | 8015B | Amber Glass | 1000 | 1 | ☐ | None | Report to MDL. |
| PCB Congeners | 8082 | Amber Glass | 1000 | 1 | ☐ | None | Report to MDL. |
| PAHs | 8310 | Amber Glass | 1000 | 1 | ☐ | None | Report to MDL. |

Comments:

Signature: John R Shaal
Date: 8-18-05

## SAMPLING/DEVELOPMENT INFORMATION

ACTON • MICKELSON • ENVIRONMENTAL, INC.
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762

Project Name: Former Georgia-Pacific Sawmill
Facility/ Address: 90 West Redwood Avenue, Fort Bragg, CA
Project Number: 16017.01

**Well/ Sample Location: MW-4.2** — **Date: 8/ 18/2005**

Sample ID: MW-4.2-08 18 05 — Field Crew: TEC/JRS/JDM

QA/QC Sample IDs: — Purging Subcontractor: NA

MS/MSD for this Sample? ☐ — Weather: cloudy/misty

Location Description: Monitoring Well — FID/PID at Well Headspace (ppm): NA

Well Condition: OK

### PURGING PARAMETERS

Casing Diameter (D, inches) 4"

Approx. Screen Depth (feet bmp): 6.80 to 31.55

Depth to Water (H, feet bmp): 6.61 8/18/05

Casing Volume (gallons): NA

Calculated Purge Volume (gallons): NA

Note if LPH (feet thickness):

CASING VOLUME: ([TD-H]*[3.14*(D/24)2]*[7.48 gallons/ft3
0.65*[TD-H] for 4-inch well; 0.16*[TD-H] for 2-inch wel

### PURGING/SAMPLING METHODS

| | Purging | Sampling | Notes |
|---|---|---|---|
| Low Flow | ☑ | ☑ | |
| Peristaltic Pump | ☑ | ☑ | |
| Submersible Pump | ☐ | ☐ | |
| Bailer | ☐ | ☐ | |
| Tap/ Other | ☐ | ☐ | |
| Dedicated Equipment? | ☐ | ☐ | |

Intake Depth (feet bmp): ~29

### PURGING AND WATER QUALITY DATA

| Time | Purge Rate (gpm) (lpm) or Increment (gal) (l) | Cumulative Water Removed (gal) (l) | Depth to Water (feet bmp) | pH (units) | Specific Conduct-ance (mS/cm) | Turbidity (NTU) | Dissolved Oxygen (mg/L) | Temper-ature (degrees C) | Other (circle): Fe+2 (mg/L) Eh (mV) ( ) | Notes (e.g. pump setting, adjustments) |
|---|---|---|---|---|---|---|---|---|---|---|
| 0835 | 0 | 0 | | | | | | | ORP | Start purge. |
| 0839 | 0.25 | 1 | 6.85 | 7.12 | 0.422 | 10.4 | 0.88 | 15.8 | -149 | |
| 0843 | 0.25 | 2 | 6.95 | 7.12 | 0.444 | 5.6 | 0.39 | 15.9 | -151 | |
| 0847 | 0.25 | 3 | 7.20 | 7.10 | 0.440 | 5.3 | 0.35 | 15.9 | -151 | |
| | | | | | | | | | | Fe = 5.4 |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | End purge. |

Time Samples Collected: 0850 — Note Any Sampling Problem: none

Sample Appearance: clear — Equipment Decontamination: None

Laboratory: Curtis&Tompkins — Purge Water Disposition: On site tank

Water Meter Model/No: Horiba U22XD Solinst 101 Reel

### LABORATORY SAMPLE INFORMATION

| Analysis | Analysis Method | Container Type | Volume (ml) | Number of Containers | Sample Filtered? | Preservative | Notes |
|---|---|---|---|---|---|---|---|
| ~~TPHg~~ | ~~8015B~~ | ~~VOA~~ | ~~40~~ | ~~3~~ | ☐ | HCl | |
| VOCs Low Level | 8260B | VOA | 40 | 3 | ☐ | HCl | Include ethanol, isopropanol |
| SVOCs | 8270C | Amber Glass | 1000 | 2 | ☐ | None | Report to MDL. |
| Metals, dissolved | 6020B/ 7470A | Poly | 500 | 1 | ☑ | HNO3 | |
| TPHd, TPHo w/ SGCU | 8015B | Amber Glass | 1000 | 1 | ☐ | None | Report to MDL. |
| PCB Congeners | 8082 | Amber Glass | 1000 | 1 | ☐ | None | Report to MDL. |
| PAHs | 8310 | Amber Glass | 1000 | 1 | ☐ | None | Report to MDL. |

Comments: Chemets DO = 1.0 mg/L

Signature: John R Shaal — Date: 8-18-05

## SAMPLING/DEVELOPMENT INFORMATION

ACTON • MICKELSON • ENVIRONMENTAL, INC.
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762

Project Name: Former Georgia-Pacific Sawmill
Facility/ Address: 90 West Redwood Avenue, Fort Bragg, CA
Project Number: 16017.01

**Well/ Sample Location: MW-4.3** — **Date: 8/17/2005**

Sample ID: MW-4.3-0817 05 — Field Crew: TEC/JRS/JDM

QA/QC Sample IDs: — Purging Subcontractor: NA

MS/MSD for this Sample? ☐ — Weather: Partly Sunny

Location Description: Monitoring Well — FID/PID at Well Headspace (ppm): NA

Well Condition: Ok

### PURGING PARAMETERS

Casing Diameter (D, inches) 4

Approx. Screen Depth (feet bmp): 3.00 to 29.75

Depth to Water (H, feet bmp): 3.30 8/17/05

Casing Volume (gallons): NA

Calculated Purge Volume (gallons): NA

Note if LPH (feet thickness):

CASING VOLUME: ([TD-H]*[3.14*(D/24)2]*[7.48 gallons/ft3
0.65*[TD-H] for 4-inch well; 0.16*[TD-H] for 2-inch wel

### PURGING/SAMPLING METHODS

| | Purging | Sampling | Notes |
|---|---|---|---|
| Low Flow | ☑ | ☑ | |
| Peristaltic Pump | ☑ | ☑ | |
| Submersible Pump | ☐ | ☐ | |
| Bailer | ☐ | ☐ | |
| Tap/ Other | ☐ | ☐ | |
| Dedicated Equipment? | ☐ | ☐ | |

Intake Depth (feet bmp): ≈ 27

### PURGING AND WATER QUALITY DATA

| Time | Purge Rate (gpm) (lpm) or Increment (gal) (l) | Cumulative Water Removed (gal) (l) | Depth to Water (feet bmp) | pH (units) | Specific Conductance (mS/cm) | Turbidity (NTU) | Dissolved Oxygen (mg/L) | Temperature (degrees C) | Other (circle): Fe+2 (mg/L) Eh (mV) ( ) | Notes (e.g. pump setting, adjustments) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1415 | 0 | 0 | | | | | | | ORP | Start purge. |
| 1419 | 0.25 | 1 | 3.58 | 6.28 | 0.350 | 47.2 | 0.20 | 16.2 | -89 | |
| 1423 | 0.25 | 2 | 3.61 | 6.32 | 0.325 | 64.3 | 0.11 | 16.1 | -90 | |
| 1427 | 0.25 | 3 | 3.65 | 6.32 | 0.299 | 71.0 | 0.04 | 16.0 | -89 | |
| 1431 | 0.25 | 4 | 3.65 | 6.29 | 0.271 | 71.2 | 0.03 | 16.0 | -84 | Fe=5.0 |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | End purge. |

Time Samples Collected: 1435 — Note Any Sampling Problem: None

Sample Appearance: clear — Equipment Decontamination: None

Laboratory: Curtis&Tompkins — Purge Water Disposition: On site tank

Water Meter Model/No: Horiba U22xD Solinst 101 Reel

### LABORATORY SAMPLE INFORMATION

| Analysis | Analysis Method | Container Type | Volume (ml) | Number of Containers | Sample Filtered? | Preservative | Notes |
|---|---|---|---|---|---|---|---|
| TPHg | 8015B | VOA | 40 | 3 | ☐ | HCl | |
| VOCs Low Level | 8260B | VOA | 40 | 3 | ☐ | HCl | Include ethanol, isopropanol |
| SVOCs | 8270C | Amber Glass | 1000 | 2 | ☐ | None | Report to MDL. |
| Metals, dissolved | 6020B/ 7470A | Poly | 500 | 1 | ☑ | HNO3 | |
| TPHd, TPHo w/ SGCU | 8015B | Amber Glass | 1000 | 1 | ☐ | None | Report to MDL. |
| PCB Congeners | 8082 | Amber Glass | 1000 | 1 | ☐ | None | Report to MDL. |
| PAHs | 8310 | Amber Glass | 1000 | 1 | ☐ | None | Report to MDL. |

Comments:

Signature: John R Shaul — Date: 8-17-05

## SAMPLING/DEVELOPMENT INFORMATION

ACTON • MICKELSON • ENVIRONMENTAL, INC.
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762

Project Name: Former Georgia-Pacific Sawmill
Facility/ Address: 90 West Redwood Avenue, Fort Bragg, CA
Project Number: 16017.01

**Well/ Sample Location: MW-4.4**
Sample ID: MW-4.4-0817 05
QA/QC Sample IDs:
MS/MSD for this Sample? ☐
Location Description: Monitoring Well
Well Condition: OK

**Date: 8/17/2005**
Field Crew: TEC/JRS/JOM
Purging Subcontractor: NA
Weather: cloudy
FID/PID at Well Headspace (ppm): NA

### PURGING PARAMETERS

Casing Diameter (D, inches) 4
Approx. Screen Depth (feet bmp): 5.00 to 29.75
Depth to Water (H, feet bmp): 3.83 8/17/05
Casing Volume (gallons): NA
Calculated Purge Volume (gallons): NA
Note if LPH (feet thickness):

CASING VOLUME: ([TD-H]*[3.14*(D/24)2]*[7.48 gallons/ft3
0.65*[TD-H] for 4-inch well; 0.16*[TD-H] for 2-inch wel

### PURGING/SAMPLING METHODS

| | Purging | Sampling | Notes |
|---|---|---|---|
| Low Flow | ☑ | ☑ | |
| Peristaltic Pump | ☑ | ☑ | |
| Submersible Pump | ☐ | ☐ | |
| Bailer | ☐ | ☐ | |
| Tap/ Other | ☐ | ☐ | |
| Dedicated Equipment? | ☐ | ☐ | |

Intake Depth (feet bmp): ≈ 27

### PURGING AND WATER QUALITY DATA

| Time | Purge Rate (gpm) (lpm) or Increment (gal) (l) | Cumulative Water Removed (gal) (l) | Depth to Water (feet bmp) | pH (units) | Specific Conductance (mS/cm) | Turbidity (NTU) | Dissolved Oxygen (mg/L) | Temperature (degrees C) | Other (circle): Fe+2 (mg/L) Eh (mV) ( ) | Notes (e.g. pump setting, adjustments) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1508 | 0 | 0 | | | | | | | ORP | Start purge. |
| 1512 | 0.25 | 1 | 3.84 | 6.67 | 0.571 | 3.4 | 0.58 | 16.3 | -99 | |
| 1516 | 0.25 | 2 | 3.84 | 6.70 | 0.590 | 1.3 | 0.13 | 16.2 | -105 | |
| 1520 | 0.25 | 3 | 3.84 | 6.70 | 0.593 | 1.3 | 0.09 | 16.2 | -112 | |
| | | | | | | | | | | Fe = 3.8 |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | End purge. |

Time Samples Collected: 1525
Sample Appearance: clear
Laboratory: Curtis&Tompkins

Note Any Sampling Problem: none
Equipment Decontamination: None
Purge Water Disposition: On site tank

Water Meter Model/No: Horiba U22XD Solinst 101 Reel

### LABORATORY SAMPLE INFORMATION

| Analysis | Analysis Method | Container Type | Volume (ml) | Number of Containers | Sample Filtered? | Preservative | Notes |
|---|---|---|---|---|---|---|---|
| TPHg | 8015B | VOA | 40 | 3 | ☐ | HCl | |
| VOCs Low Level | 8260B | VOA | 40 | 3 | ☐ | HCl | Include ethanol, isopropanol |
| SVOCs | 8270C | Amber Glass | 1000 | 2 | ☐ | None | Report to MDL. |
| Metals, dissolved | 6020B/ 7470A | Poly | 500 | 1 | ☑ | HNO3 | |
| TPHd, TPHo w/ SGCU | 8015B | Amber Glass | 1000 | 1 | ☐ | None | Report to MDL. |
| PCB Congeners | 8082 | Amber Glass | 1000 | 1 | ☐ | None | Report to MDL. |
| PAHs | 8310 | Amber Glass | 1000 | 1 | ☐ | None | Report to MDL. |

Comments: Chemets D.O. = 1.0 mg/L

Signature: John R Shoal
Date: 8-17-05

## SAMPLING/DEVELOPMENT INFORMATION

ACTON • MICKELSON • ENVIRONMENTAL, INC.
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762

Project Name: Former Georgia-Pacific Sawmill
Facility/ Address: 90 West Redwood Avenue, Fort Bragg, CA
Project Number: 16017.01

**Well/ Sample Location: MW-5.1** **Date: 8/15/2005**

Sample ID: MW-5.1-08___05
Field Crew: _____
QA/QC Sample IDs:
Purging Subcontractor: NA
MS/MSD for this Sample? ☐
Weather: _____
Location Description: Monitoring Well
FID/PID at Well Headspace (ppm): _____
Well Condition: _____

### PURGING PARAMETERS

Casing Diameter (D, inches)
Approx. Screen Depth (feet bmp): 5.00 to 24.75
Depth to Water (H, feet bmp):
Casing Volume (gallons): NA
Calculated Purge Volume (gallons): NA
Note if LPH (feet thickness):

CASING VOLUME: ([TD-H]*[3.14*(D/24)2]*[7.48 gallons/ft3
0.65*[TD-H] for 4-inch well; 0.16*[TD-H] for 2-inch wel

### PURGING/SAMPLING METHODS

| | Purging | Sampling | Notes |
|---|---|---|---|
| Low Flow | ☑ | ☑ | |
| Peristaltic Pump | ☑ | ☑ | |
| Submersible Pump | ☐ | ☐ | |
| Bailer | ☐ | ☐ | |
| Tap/ Other | ☐ | ☐ | |
| Dedicated Equipment? | ☐ | ☐ | |

Intake Depth (feet bmp): _____

### PURGING AND WATER QUALITY DATA

| Time | Purge Rate (gpm) (lpm) or Increment (gal) (l) | Cumulative Water Removed (gal) (l) | Depth to Water (feet bmp) | pH (units) | Specific Conduct-ance (mS/cm) | Turbidity (NTU) | Dissolved Oxygen (mg/L) | Temper-ature (degrees C) | Other (circle): Fe+2 (mg/L) Eh (mV) ( ) | Notes (e.g. pump setting, adjustments) |
|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | | | | | | | | Start purge. |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | End purge. |

PH
0.03ft
No Sample

Time Samples Collected: _____
Note Any Sampling Problem: _____
Sample Appearance: _____
Equipment Decontamination: None
Laboratory: Curtis&Tompkins
Purge Water Disposition: On site tank

Water Meter Model/No: _____

### LABORATORY SAMPLE INFORMATION

| Analysis | Analysis Method | Container Type | Volume (ml) | Number of Containers | Sample Filtered? | Preservative | Notes |
|---|---|---|---|---|---|---|---|
| TPHg | 8015B | VOA | 40 | 3 | ☐ | HCl | |
| VOCs Low Level | 8260B | VOA | 40 | 3 | ☐ | HCl | Include ethanol, isopropanol |
| SVOCs | 8270C | Amber Glass | 1000 | 2 | ☐ | None | Report to MDL. |
| Metals, dissolved | 6020B/ 7470A | Poly | 500 | 1 | ☑ | HNO3 | |
| TPHd, TPHo w/ SGCU | 8015B | Amber Glass | 1000 | 1 | ☐ | None | Report to MDL. |
| PCB Congeners | 8082 | Amber Glass | 1000 | 1 | ☐ | None | Report to MDL. |
| PAHs | 8310 | Amber Glass | 1000 | 1 | ☐ | None | Report to MDL. |

Comments:

Signature: [signature] Date:

## SAMPLING/DEVELOPMENT INFORMATION

ACTON • MICKELSON • ENVIRONMENTAL, INC.
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762

Project Name: Former Georgia-Pacific Sawmill
Facility/ Address: 90 West Redwood Avenue, Fort Bragg, CA
Project Number: 16017.01

**Well/ Sample Location: MW-5.2** — **Date: 8/16/2005**

Sample ID: MW-5.2-08 16 05 — Field Crew: TEC/JRS/JDM

QA/QC Sample IDs: — Purging Subcontractor: NA

MS/MSD for this Sample? ☑ — Weather: cloudy

Location Description: Monitoring Well — FID/PID at Well Headspace (ppm): NA

Well Condition: OK

### PURGING PARAMETERS

Casing Diameter (D, inches) 4

Approx. Screen Depth (feet bmp): 5.00 to 24.75

Depth to Water (H, feet bmp): 1.93 8-16-05

Casing Volume (gallons): NA

Calculated Purge Volume (gallons): NA

Note if LPH (feet thickness):

CASING VOLUME: ([TD-H]*[3.14*(D/24)2]*[7.48 gallons/ft3
0.65*[TD-H] for 4-inch well; 0.16*[TD-H] for 2-inch wel

### PURGING/SAMPLING METHODS

| | Purging | Sampling | Notes |
|---|---|---|---|
| Low Flow | ☑ | ☑ | |
| Peristaltic Pump | ☑ | ☑ | |
| Submersible Pump | ☐ | ☐ | |
| Bailer | ☐ | ☐ | |
| Tap/ Other | ☐ | ☐ | |
| Dedicated Equipment? | ☐ | ☐ | |

Intake Depth (feet bmp): ~ 21

### PURGING AND WATER QUALITY DATA

| Time | Purge Rate (gpm) (lpm) or Increment (gal) (l) | Cumulative Water Removed (gal) (l) | Depth to Water (feet bmp) | pH (units) | Specific Conductance (mS/cm) | Turbidity (NTU) | Dissolved Oxygen (mg/L) | Temperature (degrees C) | Other (circle): Fe+2 (mg/L) Eh (mV) ( ) | Notes (e.g. pump setting, adjustments) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1342 | 0 | 0 | | | | | | ~~ORP~~ ppm | ORP | Start purge. |
| 1346 | 0.25 | 1 | 2.05 | 7.50 | 0.312 | 2.5 | 6.11 | 17.3 | -148 | |
| 1350 | 0.25 | 2 | 2.06 | 7.60 | 0.313 | 1.9 | 5.36 | 17.3 | -155 | |
| 1354 | 0.25 | 3 | 2.08 | 7.61 | 0.313 | 1.9 | 5.19 | 17.3 | -160 | Fe = 0.0 |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | End purge. |

Time Samples Collected: 1355 — Note Any Sampling Problem: none

Sample Appearance: clear — Equipment Decontamination: None

Laboratory: Curtis&Tompkins — Purge Water Disposition: On site tank

Water Meter Model/No: Horiba U22XD Solinst 101 Reel

### LABORATORY SAMPLE INFORMATION

| Analysis | Analysis Method | Container Type | Volume (ml) | Number of Containers | Sample Filtered? | Preservative | Notes |
|---|---|---|---|---|---|---|---|
| TPHg | 8015B | VOA | 40 | 9 | ☐ | HCl | |
| VOCs Low Level | 8260B | VOA | 40 | 9 | ☐ | HCl | Include ethanol, isopropanol |
| SVOCs | 8270C | Amber Glass | 1000 | 6 | ☐ | None | Report to MDL. |
| Metals, dissolved | 6020B/ 7470A | Poly | 500 | 3 | ☑ | HNO3 | |
| TPHd, TPHo w/ SGCU | 8015B | Amber Glass | 1000 | 3 | ☐ | None | Report to MDL. |
| PCB Congeners | 8082 | Amber Glass | 1000 | 3 | ☐ | None | Report to MDL. |
| PAHs | 8310 | Amber Glass | 1000 | 3 | ☐ | None | Report to MDL. |

Comments:

Signature: John R Shaw — Date: 8-16-05

## SAMPLING/DEVELOPMENT INFORMATION

ACTON • MICKELSON • ENVIRONMENTAL, INC.
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762

Project Name: Former Georgia-Pacific Sawmill
Facility/ Address: 90 West Redwood Avenue, Fort Bragg, CA
Project Number: 16017.01

**Well/ Sample Location: MW-5.3** — **Date: 8/16/2005**

Sample ID: MW-5.3-0816 05 — Field Crew: TEC/JRS/JDM

QA/QC Sample IDs: — Purging Subcontractor: NA

MS/MSD for this Sample? ☐ — Weather: cloudy

Location Description: Monitoring Well — FID/PID at Well Headspace (ppm): NA

Well Condition: OK

### PURGING PARAMETERS

Casing Diameter (D, inches) 4

Approx. Screen Depth (feet bmp): 5.00 to 29.75

Depth to Water (H, feet bmp): 7.55 8/16/05

Casing Volume (gallons): NA

Calculated Purge Volume (gallons): NA

Note if LPH (feet thickness):

CASING VOLUME: ([TD-H]*[3.14*(D/24)2]*[7.48 gallons/ft3
0.65*[TD-H] for 4-inch well; 0.16*[TD-H] for 2-inch wel

### PURGING/SAMPLING METHODS

| | Purging | Sampling | Notes |
|---|---|---|---|
| Low Flow | ☑ | ☑ | |
| Peristaltic Pump | ☑ | ☑ | |
| Submersible Pump | ☐ | ☐ | |
| Bailer | ☐ | ☐ | |
| Tap/ Other | ☐ | ☐ | |
| Dedicated Equipment? | ☐ | ☐ | |

Intake Depth (feet bmp): 2 27

### PURGING AND WATER QUALITY DATA

| Time | Purge Rate (gpm) (lpm) or Increment (gal) (l) | Cumulative Water Removed (gal) (l) | Depth to Water (feet bmp) | pH (units) | Specific Conductance (mS/cm) | Turbidity (NTU) | Dissolved Oxygen (mg/L) | Temperature (degrees C) | Other (circle): Fe+2 (mg/L) Eh (mV) ( ) | Notes (e.g. pump setting, adjustments) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1500 | 0 | 0 | | | | | | | ORP | Start purge. |
| 1504 | 0.25 | 1 | 7.69 | 6.34 | 0.373 | 0.0 | 5.8 | 19.1 | -130 | |
| 1508 | 0.25 | 2 | 7.76 | 6.34 | 0.378 | 0.0 | 5.2 | 19.2 | -136 | |
| 1512 | 0.25 | 3 | 7.85 | 6.34 | 0.379 | 0.0 | 5.1 | 19.2 | -140 | Fe = 8.5 |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | End purge. |

Time Samples Collected: 1515 — Note Any Sampling Problem: None

Sample Appearance: clear — Equipment Decontamination: None

Laboratory: Curtis&Tompkins — Purge Water Disposition: On site tank

Water Meter Model/No: Horiba U22XD Solinst 101 Reel

### LABORATORY SAMPLE INFORMATION

| Analysis | Analysis Method | Container Type | Volume (ml) | Number of Containers | Sample Filtered? | Preservative | Notes |
|---|---|---|---|---|---|---|---|
| TPHg | 8015B | VOA | 40 | 3 | ☐ | HCl | |
| VOCs Low Level | 8260B | VOA | 40 | 3 | ☐ | HCl | Include ethanol, isopropanol |
| SVOCs | 8270C | Amber Glass | 1000 | 2 | ☐ | None | Report to MDL. |
| Metals, dissolved | 6020B/ 7470A | Poly | 500 | 1 | ☑ | HNO3 | |
| TPHd, TPHo w/ SGCU | 8015B | Amber Glass | 1000 | 1 | ☐ | None | Report to MDL. |
| PCB Congeners | 8082 | Amber Glass | 1000 | 1 | ☐ | None | Report to MDL. |
| PAHs | 8310 | Amber Glass | 1000 | 1 | ☐ | None | Report to MDL. |

Comments: Chem'ts DO = 1.5

Signature: John R Shaal — Date: 8-16-05

## SAMPLING/DEVELOPMENT INFORMATION

ACTON • MICKELSON • ENVIRONMENTAL, INC.
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762

Project Name: Former Georgia-Pacific Sawmill
Facility/ Address: 90 West Redwood Avenue, Fort Bragg, CA
Project Number: 16017.01

**Well/ Sample Location: MW-5.4**
Sample ID: MW-5.4-08 16 05
QA/QC Sample IDs: MW-DUP2-08 16 05
MS/MSD for this Sample? ☐
Location Description: Monitoring Well
Well Condition: OK

**Date:** 8/16/2005
Field Crew: TEC / JRS / JDM
Purging Subcontractor: NA
Weather: cloudy
FID/PID at Well Headspace (ppm): NA

### PURGING PARAMETERS

Casing Diameter (D, inches) 4
Approx. Screen Depth (feet bmp): 5.00 to 29.75
Depth to Water (H, feet bmp): 3.71 8-16-05
Casing Volume (gallons): NA
Calculated Purge Volume (gallons): NA
Note if LPH (feet thickness):

CASING VOLUME: ([TD-H]*[3.14*(D/24)2]*[7.48 gallons/ft3
0.65*[TD-H] for 4-inch well; 0.16*[TD-H] for 2-inch wel

### PURGING/SAMPLING METHODS

| | Purging | Sampling | Notes |
|---|---|---|---|
| Low Flow | ☑ | ☑ | |
| Peristaltic Pump | ☑ | ☑ | |
| Submersible Pump | ☐ | ☐ | |
| Bailer | ☐ | ☐ | |
| Tap/ Other | ☐ | ☐ | |
| Dedicated Equipment? | ☐ | ☐ | |

Intake Depth (feet bmp): ≈ 27

### PURGING AND WATER QUALITY DATA

| Time | Purge Rate (gpm) (lpm) or Increment (gal) (l) | Cumulative Water Removed (gal) (l) | Depth to Water (feet bmp) | pH (units) | Specific Conduct-ance (mS/cm) | Turbidity (NTU) | Dissolved Oxygen (mg/L) | Temper-ature (degrees C) | Other (circle): Fe+2 (mg/L) Eh (mV) ( ) | Notes (e.g. pump setting, adjustments) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1540 | 0 | 0 | | | | | | | ORP | Start purge. |
| 1544 | 0.25 | 1 | 4.05 | 5.99 | 0.298 | 58.2 | 7.07 | 20.4 | -54 | |
| 1548 | 0.25 | 2 | 4.10 | 5.99 | 0.300 | 19.9 | 5.33 | 20.6 | -67 | |
| 1552 | 0.25 | 3 | 4.12 | 5.98 | 0.300 | 19.3 | 5.04 | 20.7 | -80 | |
| | | | | | | | | | | Fe = 3.0 |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | End purge. |

Time Samples Collected: 1555
Sample Appearance: clear
Laboratory: Curtis&Tompkins

Note Any Sampling Problem: none
Equipment Decontamination: None
Purge Water Disposition: On site tank

Water Meter Model/No: Horiba U22XD
Solinst 101 Reel

### LABORATORY SAMPLE INFORMATION

| Analysis | Analysis Method | Container Type | Volume (ml) | Number of Containers | Sample Filtered? | Preservative | Notes |
|---|---|---|---|---|---|---|---|
| TPHg | 8015B | VOA | 40 | 6 | ☐ | HCl | |
| VOCs Low Level | 8260B | VOA | 40 | 6 | ☐ | HCl | Include ethanol, isopropanol |
| SVOCs | 8270C | Amber Glass | 1000 | 4 | ☐ | None | Report to MDL. |
| Metals, dissolved | 6020B/ 7470A | Poly | 500 | 2 | ☑ | HNO3 | |
| TPHd, TPHo w/ SGCU | 8015B | Amber Glass | 1000 | 2 | ☐ | None | Report to MDL. |
| PCB Congeners | 8082 | Amber Glass | 1000 | 2 | ☐ | None | Report to MDL. |
| PAHs | 8310 | Amber Glass | 1000 | 2 | ☐ | None | Report to MDL. |

Comments:

Signature: John R Shaal
Date: 8-16-05

## SAMPLING/DEVELOPMENT INFORMATION

ACTON • MICKELSON • ENVIRONMENTAL, INC.
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762

Project Name: Former Georgia-Pacific Sawmill
Facility/ Address: 90 West Redwood Avenue, Fort Bragg, CA
Project Number: 16017.01

**Well/ Sample Location: MW-5.5** — **Date: 8/17 /2005**

Sample ID: MW-5.5-0817 05 — Field Crew: TEC/JRS/JDM

QA/QC Sample IDs: — Purging Subcontractor: NA

MS/MSD for this Sample? ☐ — Weather: cloudy

Location Description: Monitoring Well — FID/PID at Well Headspace (ppm): NA

Well Condition: OK

### PURGING PARAMETERS

Casing Diameter (D, inches) 4

Approx. Screen Depth (feet bmp): 5.00 to 29.75

Depth to Water (H, feet bmp): 8.39 8/17/05

Casing Volume (gallons): NA

Calculated Purge Volume (gallons): NA

Note if LPH (feet thickness):

CASING VOLUME: ([TD-H]*[3.14*(D/24)2]*[7.48 gallons/ft3
0.65*[TD-H] for 4-inch well; 0.16*[TD-H] for 2-inch wel

### PURGING/SAMPLING METHODS

| | Purging | Sampling | Notes |
|---|---|---|---|
| Low Flow | ☑ | ☑ | |
| Peristaltic Pump | ☑ | ☑ | |
| Submersible Pump | ☐ | ☐ | |
| Bailer | ☐ | ☐ | |
| Tap/ Other | ☐ | ☐ | |
| Dedicated Equipment? | ☐ | ☐ | |

Intake Depth (feet bmp): ≈ 27

### PURGING AND WATER QUALITY DATA

| Time | Purge Rate (gpm) (lpm) or Increment (gal) (l) | Cumulative Water Removed (gal) (l) | Depth to Water (feet bmp) | pH (units) | Specific Conductance (mS/cm) | Turbidity (NTU) | Dissolved Oxygen (mg/L) | Temperature (degrees C) | Other (circle): Fe+2 (mg/L) Eh (mV) ( ) | Notes (e.g. pump setting, adjustments) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1035 | 0 | 0 | | | | | | | ORP | Start purge. |
| 1039 | 0.25 | 1 | 8.70 | 6.00 | 0.461 | 0.0 | .58 | 17.5 | -159 | |
| 1043 | 0.25 | 2 | 8.97 | 5.99 | 0.528 | 0.0 | .35 | 17.6 | -162 | |
| 1047 | 0.25 | 3 | 9.09 | 5.99 | 0.490 | 0.0 | .30 | 17.7 | -163 | |
| | | | | | | | | | | Fe = ~~6.0~~ 9/28 |
| | | | | | | | | | | 6.0 |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | End purge. |

Time Samples Collected: 1050 — Note Any Sampling Problem: none

Sample Appearance: clear — Equipment Decontamination: None

Laboratory: Curtis&Tompkins — Purge Water Disposition: On site tank

Water Meter Model/No: Horiba U22XD Solinst 101 Reel

### LABORATORY SAMPLE INFORMATION

| Analysis | Analysis Method | Container Type | Volume (ml) | Number of Containers | Sample Filtered? | Preservative | Notes |
|---|---|---|---|---|---|---|---|
| TPHg | 8015B | VOA | 40 | 3 | ☐ | HCl | |
| VOCs Low Level | 8260B | VOA | 40 | 3 | ☐ | HCl | Include ethanol, isopropanol |
| SVOCs | 8270C | Amber Glass | 1000 | 2 | ☐ | None | Report to MDL. |
| Metals, dissolved | 6020B/ 7470A | Poly | 500 | 1 | ☑ | HNO3 | |
| TPHd, TPHo w/ SGCU | 8015B | Amber Glass | 1000 | 1 | ☐ | None | Report to MDL. |
| PCB Congeners | 8082 | Amber Glass | 1000 | 1 | ☐ | None | Report to MDL. |
| PAHs | 8310 | Amber Glass | 1000 | 1 | ☐ | None | Report to MDL. |

Comments: Chemets DO = mg/L

Signature: John R Shaal — Date: 8-17-05

## SAMPLING/DEVELOPMENT INFORMATION

ACTON • MICKELSON • ENVIRONMENTAL, INC.
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762

Project Name: Former Georgia-Pacific Sawmill
Facility/ Address: 90 West Redwood Avenue, Fort Bragg, CA
Project Number: 16017.01

**Well/ Sample Location: MW-5.6**
Sample ID: MW-5.6-0817 05
QA/QC Sample IDs:
MS/MSD for this Sample? ☐
Location Description: Monitoring Well
Well Condition: OK

**Date:** 8/17/2005
Field Crew: TEC/JRS/JDM
Purging Subcontractor: NA
Weather: cloudy
FID/PID at Well Headspace (ppm): NA

### PURGING PARAMETERS

Casing Diameter (D, inches) 4
Approx. Screen Depth (feet bmp): 5.00 to 24.75
Depth to Water (H, feet bmp): 11.2 8-17-05
Casing Volume (gallons): NA
Calculated Purge Volume (gallons): NA
Note if LPH (feet thickness):

CASING VOLUME: ([TD-H]*[3.14*(D/24)2]*[7.48 gallons/ft3
0.65*[TD-H] for 4-inch well; 0.16*[TD-H] for 2-inch wel

### PURGING/SAMPLING METHODS

| | Purging | Sampling | Notes |
|---|---|---|---|
| Low Flow | ☑ | ☑ | |
| Peristaltic Pump | ☑ | ☑ | |
| Submersible Pump | ☐ | ☐ | |
| Bailer | ☐ | ☐ | |
| Tap/ Other | ☐ | ☐ | |
| Dedicated Equipment? | ☐ | ☐ | |

Intake Depth (feet bmp): ≈ 22

### PURGING AND WATER QUALITY DATA

| Time | Purge Rate (gpm) (lpm) or Increment (gal) (l) | Cumulative Water Removed (gal) (l) | Depth to Water (feet bmp) | pH (units) | Specific Conductance (mS/cm) | Turbidity (NTU) | Dissolved Oxygen (mg/L) | Temperature (degrees C) | Other (circle): Fe+2 (mg/L) Eh (mV) ( ) | Notes (e.g. pump setting, adjustments) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1135 | 0 | 0 | | | | | | | ORP | Start purge. |
| 1139 | 0.25 | 1 | 11.35 | 6.34 | 0.504 | 5.8 | 2.40 | 16.7 | -62 | |
| 1143 | 0.25 | 2 | 11.49 | 6.34 | 0.551 | 0.3 | 0.66 | 16.8 | -74 | |
| 1147 | 0.25 | 3 | 11.54 | 6.32 | 0.540 | 0.0 | 0.60 | 16.9 | -84 | |
| | | | | | | | | | | Fe=6.5 |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | End purge. |

Time Samples Collected: 1147
Sample Appearance: clear
Laboratory: Curtis&Tompkins

Note Any Sampling Problem: none
Equipment Decontamination: None
Purge Water Disposition: On site tank

Water Meter Model/No: Horiba U22XO Solinst 101 Reel

### LABORATORY SAMPLE INFORMATION

| Analysis | Analysis Method | Container Type | Volume (ml) | Number of Containers | Sample Filtered? | Preservative | Notes |
|---|---|---|---|---|---|---|---|
| TPHg | 8015B | VOA | 40 | 3 | ☐ | HCl | |
| VOCs Low Level | 8260B | VOA | 40 | 3 | ☐ | HCl | Include ethanol, isopropanol |
| SVOCs | 8270C | Amber Glass | 1000 | 2 | ☐ | None | Report to MDL. |
| Metals, dissolved | 6020B/ 7470A | Poly | 500 | 1 | ☑ | HNO3 | |
| TPHd, TPHo w/ SGCU | 8015B | Amber Glass | 1000 | 1 | ☐ | None | Report to MDL. |
| PCB Congeners | 8082 | Amber Glass | 1000 | 1 | ☐ | None | Report to MDL. |
| PAHs | 8310 | Amber Glass | 1000 | 1 | ☐ | None | Report to MDL. |

Comments:

Signature: John R Shaal
Date: 8-17-05

## SAMPLING/DEVELOPMENT INFORMATION

ACTON • MICKELSON • ENVIRONMENTAL, INC.
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762

Project Name: Former Georgia-Pacific Sawmill
Facility/ Address: 90 West Redwood Avenue, Fort Bragg, CA
Project Number: 16017.01

**Well/ Sample Location:** MW-5.7 **Date:** 8/17/2005

Sample ID: MW-5.7-08 17 05 Field Crew: TEC/JRS/JON

QA/QC Sample IDs: Purging Subcontractor: NA

MS/MSD for this Sample? ☐ Weather: prtly cloudy

Location Description: Monitoring Well FID/PID at Well Headspace (ppm): NA

Well Condition: OK

### PURGING PARAMETERS

Casing Diameter (D, inches) 4

Approx. Screen Depth (feet bmp): 5.00 to 34.75

Depth to Water (H, feet bmp): 5.02 8/17/05

Casing Volume (gallons): NA

Calculated Purge Volume (gallons): NA

Note if LPH (feet thickness):

CASING VOLUME: ([TD-H]*[3.14*(D/24)2]*[7.48 gallons/ft3
0.65*[TD-H] for 4-inch well; 0.16*[TD-H] for 2-inch wel

### PURGING/SAMPLING METHODS

| | Purging | Sampling | Notes |
|---|---|---|---|
| Low Flow | ☑ | ☑ | |
| Peristaltic Pump | ☑ | ☑ | |
| Submersible Pump | ☐ | ☐ | |
| Bailer | ☐ | ☐ | |
| Tap/ Other | ☐ | ☐ | |
| Dedicated Equipment? | ☐ | ☐ | |

Intake Depth (feet bmp): ≈ 32

### PURGING AND WATER QUALITY DATA

| Time | Purge Rate (gpm) (lpm) or Increment (gal) (l) | Cumulative Water Removed (gal) (l) | Depth to Water (feet bmp) | pH (units) | Specific Conduct-ance (mS/cm) | Turbidity (NTU) | Dissolved Oxygen (mg/L) | Temper-ature (degrees C) | Other (circle): Fe+2 (mg/L) Eh (mV) ( ) | Notes (e.g. pump setting, adjustments) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1232 | 0 | 0 | | | | | | | ORP | Start purge. |
| 1236 | 0.25 | 1 | 5.10 | 6.41 | 0.900 | 1.6 | .95 | 17.7 | -125 | |
| 1240 | 0.25 | 2 | 5.11 | 6.42 | 0.900 | 1.2 | .36 | 17.7 | -128 | |
| 1244 | 0.25 | 3 | 5.11 | 6.41 | 0.900 | 1.3 | .33 | 17.7 | -131 | |
| | | | | | | | | | | Fe = 6.0 |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | End purge. |

Time Samples Collected: 1245 Note Any Sampling Problem: none

Sample Appearance: clear Equipment Decontamination: None

Laboratory: Curtis&Tompkins Purge Water Disposition: On site tank

Water Meter Model/No: Horiba U22XD Solinst 101 Reel

### LABORATORY SAMPLE INFORMATION

| Analysis | Analysis Method | Container Type | Volume (ml) | Number of Containers | Sample Filtered? | Preservative | Notes |
|---|---|---|---|---|---|---|---|
| TPHg | 8015B | VOA | 40 | 3 | ☐ | HCl | |
| VOCs Low Level | 8260B | VOA | 40 | 3 | ☐ | HCl | Include ethanol, isopropanol |
| SVOCs | 8270C | Amber Glass | 1000 | 2 | ☐ | None | Report to MDL. |
| Metals, dissolved | 6020B/ 7470A | Poly | 500 | 1 | ☑ | HNO3 | |
| TPHd, TPHo w/ SGCU | 8015B | Amber Glass | 1000 | 1 | ☐ | None | Report to MDL. |
| PCB Congeners | 8082 | Amber Glass | 1000 | 1 | ☐ | None | Report to MDL. |
| PAHs | 8310 | Amber Glass | 1000 | 1 | ☐ | None | Report to MDL. |

Comments:

Signature: John R Shaal Date: 8-17-05

## SAMPLING/DEVELOPMENT INFORMATION

ACTON • MICKELSON • ENVIRONMENTAL, INC.
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762

Project Name: Former Georgia-Pacific Sawmill
Facility/ Address: 90 West Redwood Avenue, Fort Bragg, CA
Project Number: 16017.01

**Well/ Sample Location: MW-5.8** — **Date: 8/17/2005**

Sample ID: MW-5.8-08 17 05 — Field Crew: TEC/JRS/JDM

QA/QC Sample IDs: — Purging Subcontractor: NA

MS/MSD for this Sample? ☐ — Weather: Cloudy

Location Description: Monitoring Well — FID/PID at Well Headspace (ppm): NA

Well Condition: Ok

### PURGING PARAMETERS

Casing Diameter (D, inches) 4

Approx. Screen Depth (feet bmp): 2.00 to 19.75

Depth to Water (H, feet bmp): 6.78 8/17/05

Casing Volume (gallons): NA

Calculated Purge Volume (gallons): NA

Note if LPH (feet thickness):

CASING VOLUME: ([TD-H]*[3.14*(D/24)2]*[7.48 gallons/ft3
0.65*[TD-H] for 4-inch well; 0.16*[TD-H] for 2-inch wel

### PURGING/SAMPLING METHODS

| | Purging | Sampling | Notes |
|---|---|---|---|
| Low Flow | ☑ | ☑ | |
| Peristaltic Pump | ☑ | ☑ | |
| Submersible Pump | ☐ | ☐ | |
| Bailer | ☐ | ☐ | |
| Tap/ Other | ☐ | ☐ | |
| Dedicated Equipment? | ☐ | ☐ | |

Intake Depth (feet bmp): ≈ 17

### PURGING AND WATER QUALITY DATA

| Time | Purge Rate (gpm) (lpm) or Increment (gal) (l) | Cumulative Water Removed (gal) (l) | Depth to Water (feet bmp) | pH (units) | Specific Conductance (mS/cm) | Turbidity (NTU) | Dissolved Oxygen (mg/L) | Temperature (degrees C) | Other (circle): Fe+2 (mg/L) Eh (mV) ( ) | Notes (e.g. pump setting, adjustments) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1319 | 0 | 0 | | | | | | | ORP | Start purge. |
| 1323 | 0.25 | 1 | 7.08 | 7.04 | 0.469 | 4.2 | 0.61 | 16.7 | -84 | |
| 1327 | 0.25 | 2 | 7.35 | 7.03 | 0.471 | 2.5 | 0.42 | 16.8 | -90 | |
| 1331 | 0.25 | 3 | 7.41 | 7.02 | 0.471 | 2.4 | 0.40 | 16.8 | -94 | |
| | | | | | | | | | | Fe = 0.8 |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | End purge. |

Time Samples Collected: 1335 — Note Any Sampling Problem: none

Sample Appearance: clear — Equipment Decontamination: None

Laboratory: Curtis&Tompkins — Purge Water Disposition: On site tank

Water Meter Model/No: Horiba U22XD Solinst 101 Reel

### LABORATORY SAMPLE INFORMATION

| Analysis | Analysis Method | Container Type | Volume (ml) | Number of Containers | Sample Filtered? | Preservative | Notes |
|---|---|---|---|---|---|---|---|
| TPHg | 8015B | VOA | 40 | 3 | ☐ | HCl | |
| VOCs Low Level | 8260B | VOA | 40 | 3 | ☐ | HCl | Include ethanol, isopropanol |
| SVOCs | 8270C | Amber Glass | 1000 | 2 | ☐ | None | Report to MDL. |
| Metals, dissolved | 6020B/ 7470A | Poly | 500 | 1 | ☑ | HNO3 | |
| TPHd, TPHo w/ SGCU | 8015B | Amber Glass | 1000 | 1 | ☐ | None | Report to MDL. |
| PCB Congeners | 8082 | Amber Glass | 1000 | 1 | ☐ | None | Report to MDL. |
| PAHs | 8310 | Amber Glass | 1000 | 1 | ☐ | None | Report to MDL. |

Comments:

Signature: John R Shaal — Date: 8-17-05

## SAMPLING/DEVELOPMENT INFORMATION

ACTON • MICKELSON • ENVIRONMENTAL, INC.
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762

Project Name: Former Georgia-Pacific Sawmill
Facility/ Address: 90 West Redwood Avenue, Fort Bragg, CA
Project Number: 16017.01

**Well/ Sample Location: MW-5.9** — **Date: 8/18/2005**

Sample ID: MW-5.9-0818 05 — Field Crew: TEC/JRS/JDM

QA/QC Sample IDs: — Purging Subcontractor: NA

MS/MSD for this Sample? ☐ — Weather: Overcast

Location Description: Monitoring Well — FID/PID at Well Headspace (ppm): NA

Well Condition: OK

### PURGING PARAMETERS

Casing Diameter (D, inches) 4

Approx. Screen Depth (feet bmp): 5.00 to 24.75

Depth to Water (H, feet bmp): 3.80 8/18/05

Casing Volume (gallons): NA

Calculated Purge Volume (gallons): NA

Note if LPH (feet thickness):

CASING VOLUME: ([TD-H]*[3.14*(D/24)2]*[7.48 gallons/ft3
0.65*[TD-H] for 4-inch well; 0.16*[TD-H] for 2-inch wel

### PURGING/SAMPLING METHODS

| | Purging | Sampling | Notes |
|---|---|---|---|
| Low Flow | ☑ | ☑ | |
| Peristaltic Pump | ☑ | ☑ | |
| Submersible Pump | ☐ | ☐ | |
| Bailer | ☐ | ☐ | |
| Tap/ Other | ☐ | ☐ | |
| Dedicated Equipment? | ☐ | ☐ | |

Intake Depth (feet bmp): ≈ 22

### PURGING AND WATER QUALITY DATA

| Time | Purge Rate (gpm) (lpm) or Increment (gal) (l) | Cumulative Water Removed (gal) (l) | Depth to Water (feet bmp) | pH (units) | Specific Conductance (mS/cm) | Turbidity (NTU) | Dissolved Oxygen (mg/L) | Temperature (degrees C) | Other (circle): Fe+2 (mg/L) Eh (mV) ( ) | Notes (e.g. pump setting, adjustments) |
|---|---|---|---|---|---|---|---|---|---|---|
| 0753 | 0 | 0 | | | | | | | ORP | Start purge. |
| 0757 | 0.25 | 1 | 3.99 | 6.58 | 0.592 | 11.6 | 1.08 | 15.8 | -154 | |
| 0801 | 0.25 | 2 | 4.15 | 6.60 | 0.880 | 9.0 | 0.50 | 15.8 | -160 | |
| 0805 | 0.25 | 3 | 4.19 | 6.61 | 0.626 | 9.9 | 0.43 | 15.8 | -163 | |
| 0809 | 0.25 | 4 | 4.22 | 6.63 | 0.580 | 9.8 | 0.40 | 15.9 | -164 | fe = 4.0 |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | End purge. |

Time Samples Collected: 0810 — Note Any Sampling Problem: none

Sample Appearance: clear — Equipment Decontamination: None

Laboratory: Curtis&Tompkins — Purge Water Disposition: On site tank

Water Meter Model/No: Horiba U22XD Solinst 101 Reel

### LABORATORY SAMPLE INFORMATION

| Analysis | Analysis Method | Container Type | Volume (ml) | Number of Containers | Sample Filtered? | Preservative | Notes |
|---|---|---|---|---|---|---|---|
| TPHg | 8015B | VOA | 40 | 3 | ☐ | HCl | |
| VOCs Low Level | 8260B | VOA | 40 | 3 | ☐ | HCl | Include ethanol, isopropanol |
| SVOCs | 8270C | Amber Glass | 1000 | 2 | ☐ | None | Report to MDL. |
| Metals, dissolved | 6020B/ 7470A | Poly | 500 | 1 | ☑ | HNO3 | |
| TPHd, TPHo w/ SGCU | 8015B | Amber Glass | 1000 | 1 | ☐ | None | Report to MDL. |
| PCB Congeners | 8082 | Amber Glass | 1000 | 1 | ☐ | None | Report to MDL. |
| PAHs | 8310 | Amber Glass | 1000 | 1 | ☐ | None | Report to MDL. |

Comments:

Signature: John R Shaal — Date: 8-18-05

## SAMPLING/DEVELOPMENT INFORMATION

ACTON • MICKELSON • ENVIRONMENTAL, INC.
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762

Project Name: Former Georgia-Pacific Sawmill
Facility/ Address: 90 West Redwood Avenue, Fort Bragg, CA
Project Number: 16017.01

**Well/ Sample Location: MW-7.1** — **Date: 8/18/2005**

Sample ID: MW-7.1-08 18 05 — Field Crew: TEC/JRS/JDM

QA/QC Sample IDs: — Purging Subcontractor: NA

MS/MSD for this Sample? ☐ — Weather: cloudy

Location Description: Monitoring Well — FID/PID at Well Headspace (ppm): NA

Well Condition: Ok ~~cap~~ Lid to Box would not tighten down

### PURGING PARAMETERS

Casing Diameter (D, inches) 4

Approx. Screen Depth (feet bmp): 5.00 to 14.75

Depth to Water (H, feet bmp): 6.38 8/18/05

Casing Volume (gallons): NA

Calculated Purge Volume (gallons): NA

Note if LPH (feet thickness):

CASING VOLUME: ([TD-H]*[3.14*(D/24)2]*[7.48 gallons/ft3
0.65*[TD-H] for 4-inch well; 0.16*[TD-H] for 2-inch wel

### PURGING/SAMPLING METHODS

| | Purging | Sampling | Notes |
|---|---|---|---|
| Low Flow | ☑ | ☑ | |
| Peristaltic Pump | ☑ | ☑ | |
| Submersible Pump | ☐ | ☐ | |
| Bailer | ☐ | ☐ | |
| Tap/ Other | ☐ | ☐ | |
| Dedicated Equipment? | ☐ | ☐ | |

Intake Depth (feet bmp): ≈ 12

### PURGING AND WATER QUALITY DATA

| Time | Purge Rate (gpm) (lpm) or Increment (gal) (l) | Cumulative Water Removed (gal) (l) | Depth to Water (feet bmp) | pH (units) | Specific Conductance (mS/cm) | Turbidity (NTU) | Dissolved Oxygen (mg/L) | Temperature (degrees C) | Other (circle): Fe+2 (mg/L) Eh (mV) ( ) | Notes (e.g. pump setting, adjustments) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1006 | 0 | 0 | | | | | | | ORP | Start purge. |
| 1010 | 0.25 | 1 | 6.75 | 7.41 | 0.716 | 3.8 | 1.06 | 17.3 | -124 | |
| 1014 | 0.25 | 2 | 6.82 | 7.44 | 0.910 | 3.3 | 0.37 | 17.4 | -133 | |
| 1018 | 0.25 | 3 | 6.94 | 7.47 | 0.930 | 3.1 | 0.30 | 17.4 | -138 | |
| | | | | | | | | | | Fe = 1.0 |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | End purge. |

Time Samples Collected: 1020 — Note Any Sampling Problem: none

Sample Appearance: clear — Equipment Decontamination: None

Laboratory: Curtis&Tompkins — Purge Water Disposition: On site tank

Water Meter Model/No: Horiba U22XD Solinst 101 Reel

### LABORATORY SAMPLE INFORMATION

| Analysis | Analysis Method | Container Type | Volume (ml) | Number of Containers | Sample Filtered? | Preservative | Notes |
|---|---|---|---|---|---|---|---|
| TPHg | 8015B | VOA | 40 | 3 | ☐ | HCl | |
| VOCs Low Level | 8260B | VOA | 40 | 3 | ☐ | HCl | Include ethanol, isopropanol |
| SVOCs | 8270C | Amber Glass | 1000 | 2 | ☐ | None | Report to MDL. |
| Metals, dissolved | 6020B/ 7470A | Poly | 500 | 1 | ☑ | HNO3 | |
| TPHd, TPHo w/ SGCU | 8015B | Amber Glass | 1000 | 1 | ☐ | None | Report to MDL. |
| PCB Congeners | 8082 | Amber Glass | 1000 | 1 | ☐ | None | Report to MDL. |
| PAHs | 8310 | Amber Glass | 1000 | 1 | ☐ | None | Report to MDL. |

Comments:

Signature: John R Shaal — Date: 8-18-05

## SAMPLING/DEVELOPMENT INFORMATION

ACTON • MICKELSON • ENVIRONMENTAL, INC.
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762

Project Name: Former Georgia-Pacific Sawmill
Facility/ Address: 90 West Redwood Avenue, Fort Bragg, CA
Project Number: 16017.01

**Well/ Sample Location: MW-10.1** **Date: 8/18/2005**

Sample ID: MW-10.1-08 18 05 Field Crew: TEC/JRS/JDM

QA/QC Sample IDs: MW-DUP3-08 18 05 Purging Subcontractor: NA

MS/MSD for this Sample? ☐ Weather: cloudy

Location Description: Monitoring Well FID/PID at Well Headspace (ppm): NA

Well Condition: OK / needs new Lock

### PURGING PARAMETERS

Casing Diameter (D, inches) 4

Approx. Screen Depth (feet bmp): 17.65 to 32.40

Depth to Water (H, feet bmp): 19.22 8/18/05

Casing Volume (gallons): NA

Calculated Purge Volume (gallons): NA

Note if LPH (feet thickness):

CASING VOLUME: ([TD-H]*[3.14*(D/24)2]*[7.48 gallons/ft3
0.65*[TD-H] for 4-inch well; 0.16*[TD-H] for 2-inch wel

### PURGING/SAMPLING METHODS

| | Purging | Sampling | Notes |
|---|---|---|---|
| Low Flow | ☑ | ☑ | |
| Peristaltic Pump | ☑ | ☑ | |
| Submersible Pump | ☐ | ☐ | |
| Bailer | ☐ | ☐ | |
| Tap/ Other | ☐ | ☐ | |
| Dedicated Equipment? | ☐ | ☐ | |

Intake Depth (feet bmp): ≈ 29

### PURGING AND WATER QUALITY DATA

| Time | Purge Rate (gpm) (lpm) or Increment (gal) (l) | Cumulative Water Removed (gal) (l) | Depth to Water (feet bmp) | pH (units) | Specific Conduct-ance (mS/cm) | Turbidity (NTU) | Dissolved Oxygen (mg/L) | Temper-ature (degrees C) | Other (circle): Fe+2 (mg/L) Eh (mV) ( ) | Notes (e.g. pump setting, adjustments) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1235 | 0 | 0 | | | | | | | ORP | Start purge. |
| 1239 | 0.25 | 1 | 19.24 | 6.38 | 0.231 | 7.0 | 5.94 | 15.3 | 112 | |
| 1243 | 0.25 | 2 | 19.24 | 6.27 | 0.226 | 6.9 | 5.07 | 15.3 | 122 | |
| 1247 | 0.25 | 3 | 19.23 | 6.24 | 0.233 | 7.0 | 4.90 | 15.3 | 125 | |
| | | | | | | | | | | Fe = 0.0 |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | End purge. |

Time Samples Collected: 1250 Note Any Sampling Problem: none

Sample Appearance: clear Equipment Decontamination: None

Laboratory: Curtis&Tompkins Purge Water Disposition: On site tank

Water Meter Model/No: Horiba U22XD Solinst 101 Reel

### LABORATORY SAMPLE INFORMATION

| Analysis | Analysis Method | Container Type | Volume (ml) | Number of Containers | Sample Filtered? | Preservative | Notes |
|---|---|---|---|---|---|---|---|
| TPHg | 8015B | VOA | 40 | 6 | ☐ | HCl | |
| VOCs Low Level | 8260B | VOA | 40 | 6 | ☐ | HCl | Include ethanol, isopropanol |
| SVOCs | 8270C | Amber Glass | 1000 | 4 | ☐ | None | Report to MDL. |
| Metals, dissolved | 6020B/ 7470A | Poly | 500 | 2 | ☑ | HNO3 | |
| TPHd, TPHo w/ SGCU | 8015B | Amber Glass | 1000 | 2 | ☐ | None | Report to MDL. |
| PCB Congeners | 8082 | Amber Glass | 1000 | 2 | ☐ | None | Report to MDL. |
| PAHs | 8310 | Amber Glass | 1000 | 2 | ☐ | None | Report to MDL. |

Comments:

Signature: John R Shoal Date: 8-18-05

## SAMPLING/DEVELOPMENT INFORMATION

ACTON • MICKELSON • ENVIRONMENTAL, INC.
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762

Project Name: Former Georgia-Pacific Sawmill
Facility/ Address: 90 West Redwood Avenue, Fort Bragg, CA
Project Number: 16017.01

**Well/ Sample Location: MW-10.2** **Date: 8/18/2005**

Sample ID: MW-10.2-08 18 05 Field Crew: TEC/JRS/JDM

QA/QC Sample IDs: Purging Subcontractor: NA

MS/MSD for this Sample? ☐ Weather: cloudy

Location Description: Monitoring Well FID/PID at Well Headspace (ppm): NA

Well Condition: Ok needs new Lock

### PURGING PARAMETERS

Casing Diameter (D, inches) 4

Approx. Screen Depth (feet bmp): 6.80 to 15.55

Depth to Water (H, feet bmp): 9.90 8/18/05

Casing Volume (gallons): NA

Calculated Purge Volume (gallons): NA

Note if LPH (feet thickness):

CASING VOLUME: ([TD-H]*[3.14*(D/24)2]*[7.48 gallons/ft3
0.65*[TD-H] for 4-inch well; 0.16*[TD-H] for 2-inch wel

### PURGING/SAMPLING METHODS

| | Purging | Sampling | Notes |
|---|---|---|---|
| Low Flow | ☑ | ☑ | |
| Peristaltic Pump | ☑ | ☑ | |
| Submersible Pump | ☐ | ☐ | |
| Bailer | ☐ | ☐ | |
| Tap/ Other | ☐ | ☐ | |
| Dedicated Equipment? | ☐ | ☐ | |

Intake Depth (feet bmp): ≈13

### PURGING AND WATER QUALITY DATA

| Time | Purge Rate (gpm) (lpm) or Increment (gal) (l) | Cumulative Water Removed (gal) (l) | Depth to Water (feet bmp) | pH (units) | Specific Conduct-ance (mS/cm) | Turbidity (NTU) | Dissolved Oxygen (mg/L) | Temper-ature (degrees C) | Other (circle): Fe+2 (mg/L) Eh (mV) ( ) | Notes (e.g. pump setting, adjustments) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1440 | 0 | 0 | | | | | | | ORP | Start purge. |
| 1444 | 0.25 | 1 | 9.91 | 6.45 | 0.246 | 4.2 | 1.15 | 16.8 | 121 | |
| 1448 | 0.25 | 2 | 9.91 | 6.44 | 0.253 | 3.0 | 0.92 | 16.7 | 123 | |
| 1452 | 0.25 | 3 | 9.91 | 6.44 | 0.305 | 2.7 | 0.82 | 16.7 | 123 | |
| 1456 | 0.25 | 4 | 9.92 | 6.45 | 0.305 | 2.6 | 0.79 | 16.7 | 122 | Fe = 0.0 |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | End purge. |

Time Samples Collected: 1500 Note Any Sampling Problem: none

Sample Appearance: clear Equipment Decontamination: None

Laboratory: Curtis&Tompkins Purge Water Disposition: On site tank

Water Meter Model/No: Horiba U22OX Solinst 101 Reel

### LABORATORY SAMPLE INFORMATION

| Analysis | Analysis Method | Container Type | Volume (ml) | Number of Containers | Sample Filtered? | Preservative | Notes |
|---|---|---|---|---|---|---|---|
| TPHg | 8015B | VOA | 40 | 3 | ☐ | HCl | |
| VOCs Low Level | 8260B | VOA | 40 | 3 | ☐ | HCl | Include ethanol, isopropanol |
| SVOCs | 8270C | Amber Glass | 1000 | 2 | ☐ | None | Report to MDL. |
| Metals, dissolved | 6020B/ 7470A | Poly | 500 | 1 | ☑ | HNO3 | |
| TPHd, TPHo w/ SGCU | 8015B | Amber Glass | 1000 | 1 | ☐ | None | Report to MDL. |
| PCB Congeners | 8082 | Amber Glass | 1000 | 1 | ☐ | None | Report to MDL. |
| PAHs | 8310 | Amber Glass | 1000 | 1 | ☐ | None | Report to MDL. |

Comments: Chemets DO = 1.0 mg/L

Signature: John R Shaal Date: 8-18-05

Dry

## SAMPLING/DEVELOPMENT INFORMATION

ACTON • MICKELSON • ENVIRONMENTAL, INC.
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762

Project Name: Former Georgia-Pacific Sawmill
Facility/ Address: 90 West Redwood Avenue, Fort Bragg, CA
Project Number: 16017.01

**Well/ Sample Location: MW-10.3**
Sample ID: MW-10.3-08___05
QA/QC Sample IDs:
MS/MSD for this Sample? ☐
Location Description: Monitoring Well
Well Condition: _____

**Date:** 8/18/2005
Field Crew: TEC/JRS/JDM
Purging Subcontractor: NA
Weather: _____
FID/PID at Well Headspace (ppm): _____

### PURGING PARAMETERS

Casing Diameter (D, inches)
Approx. Screen Depth (feet bmp): 18.80 to 27.55
Depth to Water (H, feet bmp):
Casing Volume (gallons): NA
Calculated Purge Volume (gallons): NA
Note if LPH (feet thickness):

CASING VOLUME: ([TD-H]*[3.14*(D/24)2]*[7.48 gallons/ft3
0.65*[TD-H] for 4-inch well; 0.16*[TD-H] for 2-inch wel

### PURGING/SAMPLING METHODS

| | Purging | Sampling | Notes |
|---|---|---|---|
| Low Flow | ☑ | ☑ | |
| Peristaltic Pump | ☑ | ☑ | |
| Submersible Pump | ☐ | ☐ | |
| Bailer | ☐ | ☐ | |
| Tap/ Other | ☐ | ☐ | |
| Dedicated Equipment? | ☐ | ☐ | |

Intake Depth (feet bmp): _____

### PURGING AND WATER QUALITY DATA

| Time | Purge Rate (gpm) (lpm) or Increment (gal) (l) | Cumulative Water Removed (gal) (l) | Depth to Water (feet bmp) | pH (units) | Specific Conduct-ance (mS/cm) | Turbidity (NTU) | Dissolved Oxygen (mg/L) | Temper-ature (degrees C) | Other (circle): Fe+2 (mg/L) Eh (mV) ( ) | Notes (e.g. pump setting, adjustments) |
|---|---|---|---|---|---|---|---|---|---|---|
| | 0 | 0 | | | | | | | | Start purge. |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | End purge. |

DRY

Time Samples Collected: _____
Sample Appearance: _____
Laboratory: Curtis&Tompkins
Note Any Sampling Problem: _____
Equipment Decontamination: None
Purge Water Disposition: On site tank
Water Meter Model/No: _____

### LABORATORY SAMPLE INFORMATION

| Analysis | Analysis Method | Container Type | Volume (ml) | Number of Containers | Sample Filtered? | Preservative | Notes |
|---|---|---|---|---|---|---|---|
| TPHg | 8015B | VOA | 40 | 3 | ☐ | HCl | |
| VOCs Low Level | 8260B | VOA | 40 | 3 | ☐ | HCl | Include ethanol, isopropanol |
| SVOCs | 8270C | Amber Glass | 1000 | 2 | ☐ | None | Report to MDL. |
| Metals, dissolved | 6020B/ 7470A | Poly | 500 | 1 | ☑ | HNO3 | |
| TPHd, TPHo w/ SGCU | 8015B | Amber Glass | 1000 | 1 | ☐ | None | Report to MDL. |
| PCB Congeners | 8082 | Amber Glass | 1000 | 1 | ☐ | None | Report to MDL. |
| PAHs | 8310 | Amber Glass | 1000 | 1 | ☐ | None | Report to MDL. |

Comments:

Signature: John R Shaal
Date: 8-18-05

## SAMPLING/DEVELOPMENT INFORMATION

ACTON • MICKELSON • ENVIRONMENTAL, INC.
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762

Project Name: Former Georgia-Pacific Sawmill
Facility/ Address: 90 West Redwood Avenue, Fort Bragg, CA
Project Number: 16017.01

**Well/ Sample Location: MW-10.4** — **Date: 8/18/2005**

Sample ID: MW-10.4-0818 05 — Field Crew: TEC/JRS/JDM

QA/QC Sample IDs: — Purging Subcontractor: NA

MS/MSD for this Sample? ☐ — Weather: cloudy

Location Description: Monitoring Well — FID/PID at Well Headspace (ppm): NA

Well Condition: Ok

### PURGING PARAMETERS

Casing Diameter (D, inches) 4

Approx. Screen Depth (feet bmp): 20.25 to 32.00

Depth to Water (H, feet bmp): 26.4 8/18/05

Casing Volume (gallons): NA

Calculated Purge Volume (gallons): NA

Note if LPH (feet thickness):

CASING VOLUME: ([TD-H]*[3.14*(D/24)2]*[7.48 gallons/ft3
0.65*[TD-H] for 4-inch well; 0.16*[TD-H] for 2-inch wel

### PURGING/SAMPLING METHODS

| | Purging | Sampling | Notes |
|---|---|---|---|
| Low Flow | ☑ | ☑ | |
| Peristaltic Pump | ☑ | ☑ | |
| Submersible Pump | ☐ | ☐ | |
| Bailer | ☐ | ☐ | |
| Tap/ Other | ☐ | ☐ | |
| Dedicated Equipment? | ☐ | ☐ | |

Intake Depth (feet bmp): ≈ 29

### PURGING AND WATER QUALITY DATA

| Time | Purge Rate (gpm) (lpm) or Increment (gal) (l) | Cumulative Water Removed (gal) (l) | Depth to Water (feet bmp) | pH (units) | Specific Conduct-ance (mS/cm) | Turbidity (NTU) | Dissolved Oxygen (mg/L) | Temper-ature (degrees C) | Other (circle): Fe+2 (mg/L) Eh (mV) ( ) | Notes (e.g. pump setting, adjustments) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1052 | 0 | 0 | | | | | | | ORP | Start purge. |
| 1056 | 0.25 | 1 | 26.4 | 6.41 | 0.385 | 3.9 | 2.07 | 18.5 | -58 | |
| 1100 | 0.25 | 2 | 26.4 | 6.42 | 0.580 | 3.3 | 2.06 | 18.6 | -58 | |
| 1104 | 0.25 | 3 | 26.4 | 6.42 | 0.650 | 3.8 | 1.80 | 18.6 | -58 | |
| 1108 | 0.25 | 4 | 26.4 | 6.38 | 0.440 | 2.7 | 1.32 | 18.7 | -58 | Fe=3.0 |
| 1112 | 0.25 | 5 | 26.4 | 6.38 | 0.445 | 2.7 | 1.30 | 18.8 | -58 | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | End purge. |

Time Samples Collected: 1118 — Note Any Sampling Problem: none

Sample Appearance: clear — Equipment Decontamination: None

Laboratory: Curtis&Tompkins — Purge Water Disposition: On site tank

Water Meter Model/No: Horiba U22XD Solinst 101 Reel

### LABORATORY SAMPLE INFORMATION

| Analysis | Analysis Method | Container Type | Volume (ml) | Number of Containers | Sample Filtered? | Preservative | Notes |
|---|---|---|---|---|---|---|---|
| TPHg | 8015B | VOA | 40 | 3 | ☐ | HCl | |
| VOCs Low Level | 8260B | VOA | 40 | 3 | ☐ | HCl | Include ethanol, isopropanol |
| SVOCs | 8270C | Amber Glass | 1000 | 2 | ☐ | None | Report to MDL. |
| Metals, dissolved | 6020B/ 7470A | Poly | 500 | 1 | ☑ | HNO3 | |
| TPHd, TPHo w/ SGCU | 8015B | Amber Glass | 1000 | 1 | ☐ | None | Report to MDL. |
| PCB Congeners | 8082 | Amber Glass | 1000 | 1 | ☐ | None | Report to MDL. |
| PAHs | 8310 | Amber Glass | 1000 | 1 | ☐ | None | Report to MDL. |

Comments:

Signature: John R Shaal — Date: 8-18-05

**ACTON • MICKELSON • ENVIRONMENTAL, INC.**

**DAILY FIELD REPORT**

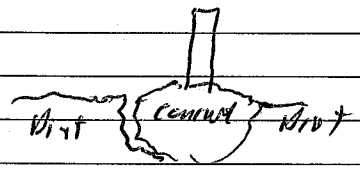
| | |
|---|---|
| Project Number: 16017.01/9.0 | Date: 8/15/05 |
| Project Name: Former Georgia-Pacific Sawmill | Project Location: 90 West Redwood Avenue Fort Bragg, California 95437 |
| Weather: Marine layer, 60's 10-15 mph | Field Crew: TEC, JDM, JS |

Today's Work Activities:

1355 Onsite @ 1200 hrs approx. 5½ hrs Mob/Demob
The Johns are on MW-2.1 Tony gauging all wells
Some well boxes so tight need hammer to loosen up bolts

1547 Well 4.3 is missing. Either buried under alot of dirt or several tons of concrete. Well 5.1 has LPH present

1645 3 wells sampled / MS/MSD. MW 2.1, 2.2 + 2.3
GPS'ed Soldier Point BM and Spring 3.1
Well 4.2 has been hit. A ¼ - ½ Inch Dia. separation between the native & concrete surface completion




Signature: Date: 8/15/05 Page 1 of ___

**ACTON • MICKELSON • ENVIRONMENTAL, INC.**

**DAILY FIELD REPORT**

| | |
|---|---|
| Project Number: 16017.05/9.0 | Date: 8/16/05 |
| Project Name: Former Georgia-Pacific Sawmill | Project Location: 90 West Redwood Avenue Fort Bragg, California 95437 |
| Weather: | Field Crew: |

Today's Work Activities:

Onsite 0700
HASP & Calibration done. Setting up on MW-3.1 (Dup-1)
Checked w/ Paul about 4.3 & 4.2 He will give it a look see
8/15/05 MW-2.1 @ 1332 MW 2.2 @ 1518 MW 2.3 @ 14.25

8/16/05 MW 3.1 @ 0845 MW 3.2 @ 0950 MW 2.1 081505-TB1 @ 0850
MW 3.3 @ 1035

1120 Paul & Doug found MW-4.3

1140 More cadets onsite. Need to resupply for afternoon
4 done + 1 Dup
1223 Taking 10 cadets to UPS. Johns on MW-3.5

1123 MW 3.4 @ 1123 MW 3.5 @ 12115
MW 4.3 water @ 3.38 ft. at the blackmarsh. Call M. Acton
& briefed him on events.

1440 MW 5.2 @ 1355 MW 3.6 @ 1304
1527 MW 5.3 @ 1515
MW 5.4 @ 1555 (Dup 2)

9 Wells 2 Dups & 1 MS/MSD Not bad for one day.

Signature: [signature] Date: 8/16/05 Page 1 of ___

**ACTON • MICKELSON • ENVIRONMENTAL, INC.**

**DAILY FIELD REPORT**

| | |
|---|---|
| Project Number: 16017.05/9.0 | Date: 8/17/05 |
| Project Name:<br>Former Georgia-Pacific Sawmill | Project Location:<br>90 West Redwood Avenue<br>Fort Bragg, California 95437 |
| Weather: Marine layer Fog 50s-60s | Field Crew: TC JDM, JS |

Today's Work Activities:

0945 to 0700 Hasp & calibrations done. Loaded up for the Heading to 3.7
0830 on MW 3.7 @ 0820
0905 MW 3.8 @ 0905 Called Andreas about the GPS. All is in order & well. Will get 3 readings on Soldier Point BM.
0935 Starting on MW 3.9 now
0957 MW 3.9 @ 0957
1040 on MW 5.5
1050 MW 5.5 @ 1050
1147 MW 5.6 @ 1147
1245 MW 5.7 @ 1245
1455. Shipped out 14 coolers. Had to replace one for it had a part @ UPS. Left message w/ Curtis & Tamplin PM. Lisa not to ship on any more bad coolers. Got the Soldier Point GPS all for a second time. Found 2 of the 3 wells WSW 9, 10 & 97 which one is which.

MW 5.8 @ 1335
MW 4.3 @ 1435
MW 4.4 @ 1525

Signature: [signature] Date: 8/17/05 Page 1 of ___

**ACTON • MICKELSON • ENVIRONMENTAL, INC.**

**DAILY FIELD REPORT**

| | |
|---|---|
| Project Number: 16017.05/9.0 | Date: 8/18/05 |
| Project Name: Former Georgia-Pacific Sawmill | Project Location: 90 West Redwood Avenue Fort Bragg, California 95437 |
| Weather: Fog, 50's-60's | Field Crew: |

Today's Work Activities:

onsite 0700 HASP & Calibration done
755 Setting up on MW 5.9
Not sure if number of coolers available is enough
4 of them are to Nelson small

MW 5.9 081805 TB3
0810 MW 5.9 @ 0810
0845 MW 4.2 Fog rolling in Misty as well
0850 MW 4.2 @ 0850 Wind ≈ 5 mph Visibility 500 yds maybe
0930. left Jeff H. a message about the coolers asked him to contact lab. It would sound better if he did it.

0930 MW-4.1 @ 0940
1055 on MW-10.4
MW 7.1 @ 1020

1110 Putting 7.1 + 10.4 together in one of the big coolers
Deb 3 will go out tomorrow

1118 MW 10.4 @ 1118
1210 heading to UPS & Lego to buy more coolers

Jimmys Burgers 707/964-2235
1445 MW 10.1 @ 1250
TB4 MW 10.2 081805 TB4 @ 1500
MW 10.2 @ 1500

Signature: [signature] Date: 8/18/05 Page 1 of ___

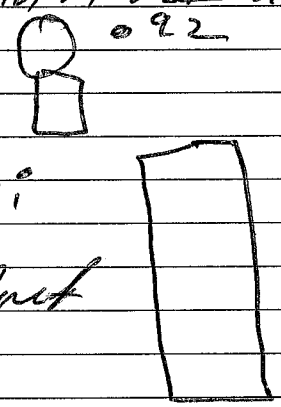
**ACTON • MICKELSON • ENVIRONMENTAL, INC.**

**DAILY FIELD REPORT**

| | |
|---|---|
| Project Number: 16017.05/9.0 | Date: 8/19/05 |
| Project Name:<br>Former Georgia-Pacific Sawmill | Project Location:<br>90 West Redwood Avenue<br>Fort Bragg, California 95437 |
| Weather: | Field Crew: |

Today's Work Activities:

0858 Onsite @ 0700 HASP & calibrate
Sampled the ~~spring~~ Spring SP3.1 081905 @ 0845
1033 Courier on time. ~~Stop~~ Shipped 5 coolers
out w/ Mendocino Stage
John Shaal on road Jim T needed to go out to item
for PDX sampling Monday. John M. & I are GPS'ing
the Powerhouse.
GPS'd WSWT.1 & 9.1 & 9.2
Will also GPS in well 4.3
It is located in road on
north side ≈ 75 ft from
4.4




1114 well WSW9.1 @ 6.77 water depth
1117 well WSW9.1 @ 14.45
1119 well WSW9.2 @ 14.15

Signature: [signature] Date: 8/19/05 Page 1 of ___

# MONITORING EQUIPMENT
# CALIBRATION DATA

ACTON • MICKELSON • ENVIRONMENTAL, INC.
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762
AME Project No: 16017.01

SITE: Former Georgia-Pacific Sawmill
ADDRESS: 90 West Redwood Avenue
Ft. Bragg, California 95437

Area No./Description:

Date: 8/15/05

Page 1 of 1

**Instrument (Type, Model, Serial No.):** Horiba U22XD

| | Calibration | Calibration Check | | | | |
|---|---|---|---|---|---|---|
| Time 1235 | | | | | | |
| Standard Used | | pH | Conductivity | Turbidity | Temperature | DO |
| Expected Reading (units) | | 4.0 | 4.49 | 0.0 | 25 | 0.0 |
| Actual Reading (units) | | 3.99 | 4.49 | 0.0 | 20.4 | 0.2 |
| Adjusted Reading (units) | | | | | | |
| Initials | | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |

Comments:

**Instrument (Type, Model, Serial No.):**

| | Calibration | Calibration Check | | | | |
|---|---|---|---|---|---|---|
| Time 1250 | | | | | | |
| Standard Used | | pH | | | | |
| Expected Reading (units) | | 7.0 | | | | |
| Actual Reading (units) | | 7.24 | | | | |
| Adjusted Reading (units) | | 7.00 | | | | |
| Initials | | [illegible] | | | | |

Comments:

**Instrument (Type, Model, Serial No.):**

| | Calibration | Calibration Check | | | | |
|---|---|---|---|---|---|---|
| Time | | | | | | |
| Standard Used | | | | | | |
| Expected Reading (units) | | | | | | |
| Actual Reading (units) | | | | | | |
| Adjusted Reading (units) | | | | | | |
| Initials | | | | | | |

NOTES:

# MONITORING EQUIPMENT
# CALIBRATION DATA

ACTON • MICKELSON • ENVIRONMENTAL, INC.
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762
AME Project No: 16017.01

SITE: Former Georgia-Pacific Sawmill
ADDRESS: 90 West Redwood Avenue
Ft. Bragg, California 95437

Area No./Description:

Date: 8/16/05

Page 1 of 1

**Instrument (Type, Model, Serial No.):** Horiba U22XD

| | Calibration | Calibration Check | | | | |
|---|---|---|---|---|---|---|
| Time 0755 | | | | | | |
| Standard Used | | pH | Conductivity | Turbidity | Temperature | D.O |
| Expected Reading (units) | | 4.0 | 4.49 | 0.0 | 25 | 0.0 |
| Actual Reading (units) | | 4.0 | 4.49 | 0.0 | 16.9 | 8.0 |
| Adjusted Reading (units) | | | | | | |
| Initials | | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |

Comments:

**Instrument (Type, Model, Serial No.):** Horiba U22XD

| | Calibration | Calibration Check | | | | |
|---|---|---|---|---|---|---|
| Time 0800 | | | | | | |
| Standard Used | | pH | | | | |
| Expected Reading (units) | | 7.0 | | | | |
| Actual Reading (units) | | 7.30 | | | | |
| Adjusted Reading (units) | | 7.00 | | | | |
| Initials | | [illegible] | | | | |

Comments:

**Instrument (Type, Model, Serial No.):**

| | Calibration | Calibration Check | | | | |
|---|---|---|---|---|---|---|
| Time | | | | | | |
| Standard Used | | | | | | |
| Expected Reading (units) | | | | | | |
| Actual Reading (units) | | | | | | |
| Adjusted Reading (units) | | | | | | |
| Initials | | | | | | |

NOTES:

# MONITORING EQUIPMENT
# CALIBRATION DATA

ACTON • MICKELSON • ENVIRONMENTAL, INC.
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762
AME Project No: 16017.01

SITE: Former Georgia-Pacific Sawmill
ADDRESS: 90 West Redwood Avenue
Ft. Bragg, California 95437

Area No./Description:

Date: 8/17/05

Page 1 of 1

**Instrument (Type, Model, Serial No.):** Horiba U22XD

| | Calibration | Calibration Check | | | | |
|---|---|---|---|---|---|---|
| Time 0740 | | | | | | DO |
| Standard Used | | pH | Conductivity | Turbidity | Temperature | |
| Expected Reading (units) | | 4.0 | 4.49 | 0.0 | 25 | 0.0 |
| Actual Reading (units) | | 3.99 | 4.49 | 0.0 | 16.4 | 2.80 |
| Adjusted Reading (units) | | | | | | 0.0 |
| Initials | | JRS | JRS | JRS | JRS | JRS |

Comments:

**Instrument (Type, Model, Serial No.):**

| | Calibration | Calibration Check | | | | |
|---|---|---|---|---|---|---|
| Time 0746 | | | | | | |
| Standard Used | | pH | | | | |
| Expected Reading (units) | | 7.0 | | | | |
| Actual Reading (units) | | 7.25 | | | | |
| Adjusted Reading (units) | | 7.00 | | | | |
| Initials | | JRS | | | | |

Comments:

**Instrument (Type, Model, Serial No.):**

| | Calibration | Calibration Check | | | | |
|---|---|---|---|---|---|---|
| Time | | | | | | |
| Standard Used | | | | | | |
| Expected Reading (units) | | | | | | |
| Actual Reading (units) | | | | | | |
| Adjusted Reading (units) | | | | | | |
| Initials | | | | | | |

NOTES:

# MONITORING EQUIPMENT
# CALIBRATION DATA

ACTON • MICKELSON • ENVIRONMENTAL, INC.
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762
AME Project No: 16017.01

SITE: Former Georgia-Pacific Sawmill
ADDRESS: 90 West Redwood Avenue
Ft. Bragg, California 95437

Area No./Description:

Date: 8-18-05

Page 1 of 1

**Instrument (Type, Model, Serial No.):** Horiba U22 XD

| | Calibration | Calibration Check | | | | |
|---|---|---|---|---|---|---|
| Time 0715 | | | | | | |
| Standard Used | | pH | Conductivity | Turbidity | Temperature | DO |
| Expected Reading (units) | | 4.0 | 4.49 | 0.0 | 25 | 0.0 |
| Actual Reading (units) | | 4.0 | 4.49 | 0.0 | 16.5 | 0.0 |
| Adjusted Reading (units) | | | | | | |
| Initials | | JRS | JRS | JRS | JRS | JRS |

Comments:

**Instrument (Type, Model, Serial No.):**

| | Calibration | Calibration Check | | | | |
|---|---|---|---|---|---|---|
| Time 0725 | | | | | | |
| Standard Used | | pH | | | | |
| Expected Reading (units) | | 7.0 | | | | |
| Actual Reading (units) | | 7.18 | | | | |
| Adjusted Reading (units) | | 7.00 | | | | |
| Initials | | JRS | | | | |

Comments:

**Instrument (Type, Model, Serial No.):**

| | Calibration | Calibration Check | | | | |
|---|---|---|---|---|---|---|
| Time | | | | | | |
| Standard Used | | | | | | |
| Expected Reading (units) | | | | | | |
| Actual Reading (units) | | | | | | |
| Adjusted Reading (units) | | | | | | |
| Initials | | | | | | |

NOTES:

# MONITORING EQUIPMENT
# CALIBRATION DATA

ACTON • MICKELSON • ENVIRONMENTAL, INC.
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762
AME Project No: 16017.01

SITE: Former Georgia-Pacific Sawmill
ADDRESS: 90 West Redwood Avenue
Ft. Bragg, California 95437

Area No./Description: | Date: 8/19/05 | Page 1 of 1

**Instrument (Type, Model, Serial No.):** Horiba U22XD

| | Calibration | Calibration Check | | | | |
|---|---|---|---|---|---|---|
| Time 0710 | | | | | | |
| Standard Used | 4.0 | pH | Conductivity | Turbidity | Temperature | D.O. |
| Expected Reading (units) | 4.0 | 4.0 | 4.49 | 0.0 | 25 | 0.0 |
| Actual Reading (units) | 3.96 | | 9.87 | 0.0 | 16.02 | 0.0 |
| Adjusted Reading (units) | 4.00 | | 4.49 | | | |
| Initials | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] | [illegible] |

Comments:

**Instrument (Type, Model, Serial No.):** Horiba U22XD

| | Calibration | Calibration Check | | | | |
|---|---|---|---|---|---|---|
| Time 0745 | | | | | | |
| Standard Used | | pH | | | | |
| Expected Reading (units) | | 7.0 | | | | |
| Actual Reading (units) | | 7.17 | | | | |
| Adjusted Reading (units) | | 7.0 | | | | |
| Initials | [illegible] | [illegible] | | | | |

Comments:

**Instrument (Type, Model, Serial No.):**

| | Calibration | Calibration Check | | | | |
|---|---|---|---|---|---|---|
| Time | | | | | | |
| Standard Used | | | | | | |
| Expected Reading (units) | | | | | | |
| Actual Reading (units) | | | | | | |
| Adjusted Reading (units) | | | | | | |
| Initials | | | | | | |

NOTES:

ACTON • MICKELSON • ENVIRONMENTAL, INC.

SITE HEALTH AND SAFETY PLAN
DAILY REVIEW AND ATTENDANCE RECORD

| | |
|---|---|
| Location: 90 West Redwood Avenue, Fort Bragg, CA. 95437-3409 | Date/Time: 8/15/05 1215 |
| Temperature: 60's | Wind Speed/Direction: 10-15 |
| General Weather Conditions: Mostly Sunny | |

## SIGNATURES OF REVIEWERS/FIELD CREW

Signature indicates that this person has reviewed and understands all segments of the SHSP, agrees to abide by the SHSP safety rules and guidelines, and has received and completed the appropriate training as required by the SHSP.

| Name | Signature | Company |
|---|---|---|
| Tom Carroll | Tom Carroll | AME |
| John Mattey | [illegible] | AME |
| John Shaal | John E Shaal | AME |
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|---|---|
| **Meeting Conducted By:** | **Site Health and Safety Officer (SHSO):** |
| Name ~~Dennis M. Jones~~ Tom Carroll<br>Print Name | Name<br>Print Name |
| Signature Tom Carroll | Signature |

Tracking: ☐ SHSO ☐ Site Tailgate Safety Meeting File ☐ Project File

ACTON • MICKELSON • ENVIRONMENTAL, INC.

SITE HEALTH AND SAFETY PLAN
DAILY REVIEW AND ATTENDANCE RECORD

| | |
|---|---|
| Location: 90 West Redwood Avenue, Fort Bragg, CA. 95437-3409 | Date/Time: 9/16/05 0800 |
| Temperature: 60°± F | Wind Speed/Direction: |
| General Weather Conditions: OVERCAST / COOL | |

## SIGNATURES OF REVIEWERS/FIELD CREW

Signature indicates that this person has reviewed and understands all segments of the SHSP, agrees to abide by the SHSP safety rules and guidelines, and has received and completed the appropriate training as required by the SHSP.

| Name | Signature | Company |
|---|---|---|
| JOHN MATTEY | John Mattey | AME |
| Tom Carroll | Tom Carroll | AME |
| John R Shaal | John R Shaal | AME |
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**Meeting Conducted By:**

Name ~~Dennis M. Jones~~ Tom Carroll
Print Name

Signature Tom Carroll

**Site Health and Safety Officer (SHSO):**

Name _____
Print Name

Signature _____

Tracking: ☐ SHSO ☐ Site Tailgate Safety Meeting File ☐ Project File

**ACTON • MICKELSON • ENVIRONMENTAL, INC.**

**SITE HEALTH AND SAFETY PLAN**
**DAILY REVIEW AND ATTENDANCE RECORD**

| | |
|---|---|
| Location: 90 West Redwood Avenue, Fort Bragg, CA. 95437-3409 | Date/Time: 8/17/05 0735 |
| Temperature: 50's - 60's | Wind Speed/Direction: |
| General Weather Conditions: Marine Layer Fog | |

**SIGNATURES OF REVIEWERS/FIELD CREW**

Signature indicates that this person has reviewed and understands all segments of the SHSP, agrees to abide by the SHSP safety rules and guidelines, and has received and completed the appropriate training as required by the SHSP.

| Name | Signature | Company |
|---|---|---|
| Tom Carroll | Tom Carroll | AME |
| John Shaal | John L. Shaal | AME |
| JOHN MATTEY | John Mattey | AME |
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**Meeting Conducted By:**

Name ~~Dennis M. Jones~~ Tom Carroll
Print Name

Signature Tom Carroll

**Site Health and Safety Officer (SHSO):**

Name _____
Print Name

Signature _____

Tracking: ☐ SHSO ☐ Site Tailgate Safety Meeting File ☐ Project File

**ACTON • MICKELSON • ENVIRONMENTAL, INC.**

**SITE HEALTH AND SAFETY PLAN**
**DAILY REVIEW AND ATTENDANCE RECORD**

| | |
|---|---|
| Location: 90 West Redwood Avenue, Fort Bragg, CA. 95437-3409 | Date/Time: 8/18/05 |
| Temperature: COOL | Wind Speed/Direction: |
| General Weather Conditions: OVERCAST (PARTIAL) | |

**SIGNATURES OF REVIEWERS/FIELD CREW**

Signature indicates that this person has reviewed and understands all segments of the SHSP, agrees to abide by the SHSP safety rules and guidelines, and has received and completed the appropriate training as required by the SHSP.

| Name | Signature | Company |
|---|---|---|
| JOHN D. MATTEY | John D. Mattey | AME |
| John R Shaal | John R. Shaal | AME |
| Tom Carroll | Tom Carroll | AME |
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|---|---|
| **Meeting Conducted By:** | **Site Health and Safety Officer (SHSO):** |
| Name ~~Dennis M. Jones~~ Tom Carroll<br>Print Name | Name_____<br>Print Name |
| Signature Tom Carroll | Signature_____ |

Tracking: ☐ SHSO ☐ Site Tailgate Safety Meeting File ☐ Project File

**ACTON • MICKELSON • ENVIRONMENTAL, INC.**

**SITE HEALTH AND SAFETY PLAN**
**DAILY REVIEW AND ATTENDANCE RECORD**

| | |
|---|---|
| Location: 90 West Redwood Avenue, Fort Bragg, CA. 95437-3409 | Date/Time: 8-19-05 |
| Temperature: 60°F | Wind Speed/Direction: |
| General Weather Conditions: Cool Overcast | |

**SIGNATURES OF REVIEWERS/FIELD CREW**

Signature indicates that this person has reviewed and understands all segments of the SHSP, agrees to abide by the SHSP safety rules and guidelines, and has received and completed the appropriate training as required by the SHSP.

| Name | Signature | Company |
|---|---|---|
| John R Shaal | John R Shaal | AME |
| Tom Carroll | Tom Carroll | AME |
| John Martin | [illegible] | AME |
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**Meeting Conducted By:**

Name ~~Dennis M. Jones~~ Tom Carroll
Print Name

Signature Tom Carroll

**Site Health and Safety Officer (SHSO):**

Name _____
Print Name

Signature _____

Tracking: ☐ SHSO ☐ Site Tailgate Safety Meeting File ☐ Project File

# APPENDIX C

## Ground Water Sample Analytical Reports

16017.01/8

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

# A N A L Y T I C A L  R E P O R T

Prepared for:

Acton Mickelson Environmental
5175 Hillsdale Cir
El Dorado Hills, CA 95762

RECEIVED
SEP 19 2005
By

Date: 08-SEP-05
Lab Job Number: 181301
Project ID: 16017.01
Location: Former GA-Pacific Sawmill

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Reviewed by: _____
Project Manager

Reviewed by: _____
Operations Manager

This package may be reproduced only in its entirety.

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# CASE NARRATIVE

| | |
|---|---|
| Laboratory number: | **181301** |
| Client: | **Acton Mickelson Environmental** |
| Project: | **16017.01** |
| Location: | **Former GA-Pacific Sawmill** |
| Request Date: | **08/17/05** |
| Samples Received: | **08/17/05** |

This hardcopy data package contains sample and QC results for ten water samples, requested for the above referenced project on 08/17/05. The samples were received cold and intact.

**TPH-Purgeables and/or BTXE by GC (EPA 8015B):**
No analytical problems were encountered.

**TPH-Extractables by GC (EPA 8015B):**
Diesel C10-C24 was detected between the MDL and the RL in the method blank for batch 104959. No other analytical problems were encountered.

**Volatile Organics by GC/MS (EPA 8260B):**
Chloroform was detected between the MDL and the RL in the method blank for batch 105077; this analyte was not detected in the sample at or above the RL. Methylene chloride was detected between the MDL and the RL in MW2.1-081505TB1 (lab # 181301-001); this analyte is a common laboratory contaminant. No other analytical problems were encountered.

**Semivolatile Organics by GC/MS (EPA 8270C):**
No analytical problems were encountered.

**Polychlorinated Biphenyl Congeners (EPA 8082):**
No analytical problems were encountered.

**Polynuclear Aromatics by HPLC (EPA 8310):**
No analytical problems were encountered.

**Metals (EPA 6020 and EPA 7470A):**
Low recovery was observed for zinc in the MS of MW2.1-081505 (lab # 181301-002); the BS/BSD were within limits, and the associated RPD was within limits. Metals reprocessed 23-Sept-05 for lowest possible reporting limits. No other analytical problems were encountered.



#

71.1

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Total Volatile Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8015B |
| Matrix: | Water | Batch#: | 104902 |
| Units: | ug/L | Received: | 08/17/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/17/05 |

Field ID: MW2.1-081505TB1 Lab ID: 181301-001
Type: SAMPLE Sampled: 08/15/05

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | ND | 50 |

| Surrogate | %REC | Limits |
|---|---|---|
| Trifluorotoluene (FID) | 102 | 63-141 |
| Bromofluorobenzene (FID) | 122 | 79-139 |

Field ID: MW2.1-081505 Lab ID: 181301-002
Type: SAMPLE Sampled: 08/15/05

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | ND | 50 |

| Surrogate | %REC | Limits |
|---|---|---|
| Trifluorotoluene (FID) | 106 | 63-141 |
| Bromofluorobenzene (FID) | 126 | 79-139 |

Field ID: MW2.2-081505 Lab ID: 181301-003
Type: SAMPLE Sampled: 08/15/05

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | ND | 50 |

| Surrogate | %REC | Limits |
|---|---|---|
| Trifluorotoluene (FID) | 103 | 63-141 |
| Bromofluorobenzene (FID) | 121 | 79-139 |

Field ID: MW2.3-081505 Lab ID: 181301-004
Type: SAMPLE Sampled: 08/15/05

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | ND | 50 |

| Surrogate | %REC | Limits |
|---|---|---|
| Trifluorotoluene (FID) | 101 | 63-141 |
| Bromofluorobenzene (FID) | 119 | 79-139 |

ND= Not Detected
RL= Reporting Limit



2.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Total Volatile Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8015B |
| Matrix: | Water | Batch#: | 104902 |
| Units: | ug/L | Received: | 08/17/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/17/05 |

Field ID: MW3.1-081605 Lab ID: 181301-005
Type: SAMPLE Sampled: 08/16/05

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | ND | 50 |

| Surrogate | %REC | Limits |
|---|---|---|
| Trifluorotoluene (FID) | 103 | 63-141 |
| Bromofluorobenzene (FID) | 122 | 79-139 |

Field ID: MW3.2-081605 Lab ID: 181301-006
Type: SAMPLE Sampled: 08/16/05

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | ND | 50 |

| Surrogate | %REC | Limits |
|---|---|---|
| Trifluorotoluene (FID) | 104 | 63-141 |
| Bromofluorobenzene (FID) | 120 | 79-139 |

Field ID: MW-DUP-1-081605 Lab ID: 181301-007
Type: SAMPLE Sampled: 08/16/05

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | ND | 50 |

| Surrogate | %REC | Limits |
|---|---|---|
| Trifluorotoluene (FID) | 103 | 63-141 |
| Bromofluorobenzene (FID) | 125 | 79-139 |

Type: BLANK Lab ID: QC305307

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | ND | 50 |

| Surrogate | %REC | Limits |
|---|---|---|
| Trifluorotoluene (FID) | 96 | 63-141 |
| Bromofluorobenzene (FID) | 113 | 79-139 |

ND= Not Detected
RL= Reporting Limit



2.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

## Total Volatile Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8015B |
| Type: | LCS | Diln Fac: | 1.000 |
| Lab ID: | QC305309 | Batch#: | 104902 |
| Matrix: | Water | Analyzed: | 08/17/05 |
| Units: | ug/L | | |

| Analyte | Spiked | Result | %REC | Limits |
|---|---|---|---|---|
| Gasoline C7-C12 | 2,000 | 2,063 | 103 | 80-120 |

| Surrogate | %REC | Limits |
|---|---|---|
| Trifluorotoluene (FID) | 115 | 63-141 |
| Bromofluorobenzene (FID) | 128 | 79-139 |



3.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

## Total Volatile Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8015B |
| Field ID: | MW2.1-081505 | Batch#: | 104902 |
| MSS Lab ID: | 181301-002 | Sampled: | 08/15/05 |
| Matrix: | Water | Received: | 08/17/05 |
| Units: | ug/L | Analyzed: | 08/17/05 |
| Diln Fac: | 1.000 | | |

Type: MS Lab ID: QC305395

| Analyte | MSS Result | Spiked | Result | %REC | Limits |
|---|---|---|---|---|---|
| Gasoline C7-C12 | 14.29 | 2,000 | 2,014 | 100 | 80-120 |

| Surrogate | %REC | Limits |
|---|---|---|
| Trifluorotoluene (FID) | 119 | 63-141 |
| Bromofluorobenzene (FID) | 131 | 79-139 |

Type: MSD Lab ID: QC305396

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|
| Gasoline C7-C12 | 2,000 | 2,053 | 102 | 80-120 | 2 | 20 |

| Surrogate | %REC | Limits |
|---|---|---|
| Trifluorotoluene (FID) | 117 | 63-141 |
| Bromofluorobenzene (FID) | 134 | 79-139 |

RPD= Relative Percent Difference



4.0

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# Total Extractable Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8015B |
| Matrix: | Water | Received: | 08/17/05 |
| Units: | ug/L | Prepared: | 08/18/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/21/05 |
| Batch#: | 104959 | | |

Field ID: MW2.1-081505 Sampled: 08/15/05
Type: SAMPLE Cleanup Method: EPA 3630C
Lab ID: 181301-002

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Diesel C10-C24 | ND | 50 | 13 |
| Motor Oil C24-C36 | ND | 300 | 33 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 103 | 55-143 |

Field ID: MW2.2-081505 Sampled: 08/15/05
Type: SAMPLE Cleanup Method: EPA 3630C
Lab ID: 181301-003

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Diesel C10-C24 | ND | 50 | 13 |
| Motor Oil C24-C36 | ND | 300 | 33 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 102 | 55-143 |

Field ID: MW2.3-081505 Sampled: 08/15/05
Type: SAMPLE Cleanup Method: EPA 3630C
Lab ID: 181301-004

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Diesel C10-C24 | ND | 50 | 13 |
| Motor Oil C24-C36 | ND | 300 | 33 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 98 | 55-143 |

Field ID: MW3.1-081605 Sampled: 08/16/05
Type: SAMPLE Cleanup Method: EPA 3630C
Lab ID: 181301-005

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Diesel C10-C24 | 19 J Y | 50 | 13 |
| Motor Oil C24-C36 | ND | 300 | 33 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 85 | 55-143 |

J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



29.0

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# Total Extractable Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8015B |
| Matrix: | Water | Received: | 08/17/05 |
| Units: | ug/L | Prepared: | 08/18/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/21/05 |
| Batch#: | 104959 | | |

Field ID: MW3.2-081605 Sampled: 08/16/05
Type: SAMPLE Cleanup Method: EPA 3630C
Lab ID: 181301-006

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Diesel C10-C24 | 75 Y | 50 | 13 |
| Motor Oil C24-C36 | ND | 300 | 33 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 100 | 55-143 |

Field ID: MW-DUP-1-081605 Sampled: 08/16/05
Type: SAMPLE Cleanup Method: EPA 3630C
Lab ID: 181301-007

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Diesel C10-C24 | 23 J Y | 50 | 13 |
| Motor Oil C24-C36 | ND | 300 | 33 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 96 | 55-143 |

Field ID: MW3.3-081605 Sampled: 08/16/05
Type: SAMPLE Cleanup Method: EPA 3630C
Lab ID: 181301-008

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Diesel C10-C24 | ND | 50 | 13 |
| Motor Oil C24-C36 | ND | 300 | 33 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 99 | 55-143 |

Field ID: MW3.4-081605 Sampled: 08/16/05
Type: SAMPLE Cleanup Method: EPA 3630C
Lab ID: 181301-009

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Diesel C10-C24 | ND | 50 | 13 |
| Motor Oil C24-C36 | ND | 300 | 33 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 92 | 55-143 |

J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



29.0

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# Total Extractable Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8015B |
| Matrix: | Water | Received: | 08/17/05 |
| Units: | ug/L | Prepared: | 08/18/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/21/05 |
| Batch#: | 104959 | | |

| | | | |
|---|---|---|---|
| Field ID: | MW3.5-081605 | Sampled: | 08/16/05 |
| Type: | SAMPLE | Cleanup Method: | EPA 3630C |
| Lab ID: | 181301-010 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Diesel C10-C24 | ND | 50 | 13 |
| Motor Oil C24-C36 | ND | 300 | 33 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 70 | 55-143 |

| | | | |
|---|---|---|---|
| Type: | BLANK | Cleanup Method: | EPA 3630C |
| Lab ID: | QC305569 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Diesel C10-C24 | 19 J | 50 | 13 |
| Motor Oil C24-C36 | ND | 300 | 33 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 107 | 55-143 |

J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



29.0

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Batch QC Report

## Total Extractable Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8015B |
| Type: | LCS | Diln Fac: | 1.000 |
| Lab ID: | QC305570 | Batch#: | 104959 |
| Matrix: | Water | Prepared: | 08/18/05 |
| Units: | ug/L | Analyzed: | 08/21/05 |

Cleanup Method: EPA 3630C

| Analyte | Spiked | Result | %REC | Limits |
|---|---|---|---|---|
| Diesel C10-C24 | 2,500 | 2,324 | 93 | 50-133 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 83 | 55-143 |



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Analytical Laboratories, Since 1878

Batch QC Report

## Total Extractable Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8015B |
| Field ID: | MW2.1-081505 | Batch#: | 104959 |
| MSS Lab ID: | 181301-002 | Sampled: | 08/15/05 |
| Matrix: | Water | Received: | 08/17/05 |
| Units: | ug/L | Prepared: | 08/18/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/21/05 |

Type: MS
Lab ID: QC305571
Cleanup Method: EPA 3630C

| Analyte | MSS Result | Spiked | Result | %REC | Limits |
|---|---|---|---|---|---|
| Diesel C10-C24 | <12.82 | 2,500 | 1,999 | 80 | 42-127 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 69 | 55-143 |

Type: MSD
Lab ID: QC305572
Cleanup Method: EPA 3630C

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|
| Diesel C10-C24 | 2,500 | 1,688 | 68 | 42-127 | 17 | 45 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 72 | 55-143 |

RPD= Relative Percent Difference



31.0

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# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Field ID: | MW2.1-081505TB1 | Batch#: | 105042 |
| Lab ID: | 181301-001 | Sampled: | 08/15/05 |
| Matrix: | Water | Received: | 08/17/05 |
| Units: | ug/L | Analyzed: | 08/22/05 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Freon 12 | ND | 1.0 | 0.2 |
| Chloromethane | ND | 1.0 | 0.2 |
| Vinyl Chloride | ND | 0.5 | 0.2 |
| Bromomethane | ND | 1.0 | 0.2 |
| Chloroethane | ND | 1.0 | 0.2 |
| Ethanol | ND | 1,000 | 7.9 |
| Trichlorofluoromethane | ND | 1.0 | 0.09 |
| Isopropanol | 11 J | 100 | 1.4 |
| Acetone | 1.8 J | 10 | 0.3 |
| Freon 113 | ND | 5.0 | 0.1 |
| 1,1-Dichloroethene | ND | 0.5 | 0.09 |
| Methylene Chloride | 1.4 J | 10 | 0.1 |
| Carbon Disulfide | ND | 0.5 | 0.06 |
| MTBE | ND | 0.5 | 0.05 |
| trans-1,2-Dichloroethene | ND | 0.5 | 0.1 |
| Vinyl Acetate | ND | 10 | 0.08 |
| 1,1-Dichloroethane | ND | 0.5 | 0.06 |
| 2-Butanone | ND | 10 | 0.2 |
| cis-1,2-Dichloroethene | ND | 0.5 | 0.1 |
| 2,2-Dichloropropane | ND | 0.5 | 0.08 |
| Chloroform | ND | 0.5 | 0.03 |
| Bromochloromethane | ND | 0.5 | 0.2 |
| 1,1,1-Trichloroethane | ND | 0.5 | 0.05 |
| 1,1-Dichloropropene | ND | 0.5 | 0.05 |
| Carbon Tetrachloride | ND | 0.5 | 0.1 |
| 1,2-Dichloroethane | ND | 0.5 | 0.06 |
| Benzene | ND | 0.5 | 0.04 |
| Trichloroethene | ND | 0.5 | 0.07 |
| 1,2-Dichloropropane | ND | 0.5 | 0.07 |
| Bromodichloromethane | 0.3 J | 0.5 | 0.08 |
| Dibromomethane | ND | 0.5 | 0.06 |
| 4-Methyl-2-Pentanone | ND | 10 | 0.09 |
| cis-1,3-Dichloropropene | ND | 0.5 | 0.04 |
| Toluene | 0.9 | 0.5 | 0.06 |
| trans-1,3-Dichloropropene | ND | 0.5 | 0.07 |
| 1,1,2-Trichloroethane | ND | 0.5 | 0.09 |
| 2-Hexanone | ND | 10 | 0.1 |
| 1,3-Dichloropropane | ND | 0.5 | 0.05 |
| Tetrachloroethene | ND | 0.5 | 0.09 |
| Dibromochloromethane | 1.0 | 0.5 | 0.08 |
| 1,2-Dibromoethane | ND | 0.5 | 0.05 |
| Chlorobenzene | ND | 0.5 | 0.08 |
| 1,1,1,2-Tetrachloroethane | ND | 0.5 | 0.05 |
| Ethylbenzene | ND | 0.5 | 0.06 |
| m,p-Xylenes | 0.1 J | 0.5 | 0.1 |
| o-Xylene | ND | 0.5 | 0.1 |
| Styrene | ND | 0.5 | 0.07 |
| Bromoform | 2.3 | 1.0 | 0.08 |
| Isopropylbenzene | ND | 0.5 | 0.05 |
| 1,1,2,2-Tetrachloroethane | ND | 0.5 | 0.07 |
| 1,2,3-Trichloropropane | ND | 0.5 | 0.2 |
| Propylbenzene | ND | 0.5 | 0.05 |
| Bromobenzene | ND | 0.5 | 0.07 |

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



32.0

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# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Field ID: | MW2.1-081505TB1 | Batch#: | 105042 |
| Lab ID: | 181301-001 | Sampled: | 08/15/05 |
| Matrix: | Water | Received: | 08/17/05 |
| Units: | ug/L | Analyzed: | 08/22/05 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| 1,3,5-Trimethylbenzene | ND | 0.5 | 0.08 |
| 2-Chlorotoluene | ND | 0.5 | 0.05 |
| 4-Chlorotoluene | ND | 0.5 | 0.03 |
| tert-Butylbenzene | ND | 0.5 | 0.04 |
| 1,2,4-Trimethylbenzene | ND | 0.5 | 0.08 |
| sec-Butylbenzene | ND | 0.5 | 0.04 |
| para-Isopropyl Toluene | ND | 0.5 | 0.06 |
| 1,3-Dichlorobenzene | ND | 0.5 | 0.07 |
| 1,4-Dichlorobenzene | ND | 0.5 | 0.09 |
| n-Butylbenzene | ND | 0.5 | 0.05 |
| 1,2-Dichlorobenzene | ND | 0.5 | 0.07 |
| 1,2-Dibromo-3-Chloropropane | ND | 2.0 | 0.3 |
| 1,2,4-Trichlorobenzene | ND | 0.5 | 0.2 |
| Hexachlorobutadiene | ND | 0.5 | 0.2 |
| Naphthalene | ND | 2.0 | 0.2 |
| 1,2,3-Trichlorobenzene | ND | 0.5 | 0.2 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 108 | 80-120 |
| 1,2-Dichloroethane-d4 | 118 | 80-122 |
| Toluene-d8 | 107 | 80-120 |
| Bromofluorobenzene | 98 | 80-124 |

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



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Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Field ID: | MW2.1-081505 | Batch#: | 105077 |
| Lab ID: | 181301-002 | Sampled: | 08/15/05 |
| Matrix: | Water | Received: | 08/17/05 |
| Units: | ug/L | Analyzed: | 08/23/05 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Freon 12 | ND | 1.0 | 0.2 |
| Chloromethane | ND | 1.0 | 0.2 |
| Vinyl Chloride | ND | 0.5 | 0.2 |
| Bromomethane | ND | 1.0 | 0.2 |
| Chloroethane | ND | 1.0 | 0.2 |
| Ethanol | ND | 1,000 | 7.9 |
| Trichlorofluoromethane | ND | 1.0 | 0.09 |
| Isopropanol | ND | 100 | 1.4 |
| Acetone | ND | 10 | 0.3 |
| Freon 113 | ND | 5.0 | 0.1 |
| 1,1-Dichloroethene | ND | 0.5 | 0.09 |
| Methylene Chloride | ND | 10 | 0.1 |
| Carbon Disulfide | ND | 0.5 | 0.06 |
| MTBE | ND | 0.5 | 0.05 |
| trans-1,2-Dichloroethene | ND | 0.5 | 0.1 |
| Vinyl Acetate | ND | 10 | 0.08 |
| 1,1-Dichloroethane | ND | 0.5 | 0.06 |
| 2-Butanone | ND | 10 | 0.2 |
| cis-1,2-Dichloroethene | ND | 0.5 | 0.1 |
| 2,2-Dichloropropane | ND | 0.5 | 0.08 |
| Chloroform | ND | 0.5 | 0.03 |
| Bromochloromethane | ND | 0.5 | 0.2 |
| 1,1,1-Trichloroethane | ND | 0.5 | 0.05 |
| 1,1-Dichloropropene | ND | 0.5 | 0.05 |
| Carbon Tetrachloride | ND | 0.5 | 0.1 |
| 1,2-Dichloroethane | ND | 0.5 | 0.06 |
| Benzene | ND | 0.5 | 0.04 |
| Trichloroethene | ND | 0.5 | 0.07 |
| 1,2-Dichloropropane | ND | 0.5 | 0.07 |
| Bromodichloromethane | ND | 0.5 | 0.08 |
| Dibromomethane | ND | 0.5 | 0.06 |
| 4-Methyl-2-Pentanone | ND | 10 | 0.09 |
| cis-1,3-Dichloropropene | ND | 0.5 | 0.04 |
| Toluene | ND | 0.5 | 0.06 |
| trans-1,3-Dichloropropene | ND | 0.5 | 0.07 |
| 1,1,2-Trichloroethane | ND | 0.5 | 0.09 |
| 2-Hexanone | ND | 10 | 0.1 |
| 1,3-Dichloropropane | ND | 0.5 | 0.05 |
| Tetrachloroethene | ND | 0.5 | 0.09 |
| Dibromochloromethane | ND | 0.5 | 0.08 |
| 1,2-Dibromoethane | ND | 0.5 | 0.05 |
| Chlorobenzene | ND | 0.5 | 0.08 |
| 1,1,1,2-Tetrachloroethane | ND | 0.5 | 0.05 |
| Ethylbenzene | ND | 0.5 | 0.06 |
| m,p-Xylenes | ND | 0.5 | 0.1 |
| o-Xylene | ND | 0.5 | 0.1 |
| Styrene | ND | 0.5 | 0.07 |
| Bromoform | ND | 1.0 | 0.08 |
| Isopropylbenzene | ND | 0.5 | 0.05 |
| 1,1,2,2-Tetrachloroethane | ND | 0.5 | 0.07 |
| 1,2,3-Trichloropropane | ND | 0.5 | 0.2 |
| Propylbenzene | ND | 0.5 | 0.05 |
| Bromobenzene | ND | 0.5 | 0.07 |
| 1,3,5-Trimethylbenzene | ND | 0.5 | 0.08 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



33.0

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# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Field ID: | MW2.1-081505 | Batch#: | 105077 |
| Lab ID: | 181301-002 | Sampled: | 08/15/05 |
| Matrix: | Water | Received: | 08/17/05 |
| Units: | ug/L | Analyzed: | 08/23/05 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| 2-Chlorotoluene | ND | 0.5 | 0.05 |
| 4-Chlorotoluene | ND | 0.5 | 0.03 |
| tert-Butylbenzene | ND | 0.5 | 0.04 |
| 1,2,4-Trimethylbenzene | ND | 0.5 | 0.08 |
| sec-Butylbenzene | ND | 0.5 | 0.04 |
| para-Isopropyl Toluene | ND | 0.5 | 0.06 |
| 1,3-Dichlorobenzene | ND | 0.5 | 0.07 |
| 1,4-Dichlorobenzene | ND | 0.5 | 0.09 |
| n-Butylbenzene | ND | 0.5 | 0.05 |
| 1,2-Dichlorobenzene | ND | 0.5 | 0.07 |
| 1,2-Dibromo-3-Chloropropane | ND | 2.0 | 0.3 |
| 1,2,4-Trichlorobenzene | ND | 0.5 | 0.2 |
| Hexachlorobutadiene | ND | 0.5 | 0.2 |
| Naphthalene | ND | 2.0 | 0.2 |
| 1,2,3-Trichlorobenzene | ND | 0.5 | 0.2 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 112 | 80-120 |
| 1,2-Dichloroethane-d4 | 112 | 80-122 |
| Toluene-d8 | 101 | 80-120 |
| Bromofluorobenzene | 113 | 80-124 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



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# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Field ID: | MW2.2-081505 | Batch#: | 105042 |
| Lab ID: | 181301-003 | Sampled: | 08/15/05 |
| Matrix: | Water | Received: | 08/17/05 |
| Units: | ug/L | Analyzed: | 08/22/05 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Freon 12 | ND | 1.0 | 0.2 |
| Chloromethane | ND | 1.0 | 0.2 |
| Vinyl Chloride | ND | 0.5 | 0.2 |
| Bromomethane | ND | 1.0 | 0.2 |
| Chloroethane | ND | 1.0 | 0.2 |
| Ethanol | ND | 1,000 | 7.9 |
| Trichlorofluoromethane | ND | 1.0 | 0.09 |
| Isopropanol | ND | 100 | 1.4 |
| Acetone | ND | 10 | 0.3 |
| Freon 113 | ND | 5.0 | 0.1 |
| 1,1-Dichloroethene | ND | 0.5 | 0.09 |
| Methylene Chloride | ND | 10 | 0.1 |
| Carbon Disulfide | ND | 0.5 | 0.06 |
| MTBE | ND | 0.5 | 0.05 |
| trans-1,2-Dichloroethene | ND | 0.5 | 0.1 |
| Vinyl Acetate | ND | 10 | 0.08 |
| 1,1-Dichloroethane | ND | 0.5 | 0.06 |
| 2-Butanone | ND | 10 | 0.2 |
| cis-1,2-Dichloroethene | ND | 0.5 | 0.1 |
| 2,2-Dichloropropane | ND | 0.5 | 0.08 |
| Chloroform | ND | 0.5 | 0.03 |
| Bromochloromethane | ND | 0.5 | 0.2 |
| 1,1,1-Trichloroethane | ND | 0.5 | 0.05 |
| 1,1-Dichloropropene | ND | 0.5 | 0.05 |
| Carbon Tetrachloride | ND | 0.5 | 0.1 |
| 1,2-Dichloroethane | ND | 0.5 | 0.06 |
| Benzene | ND | 0.5 | 0.04 |
| Trichloroethene | ND | 0.5 | 0.07 |
| 1,2-Dichloropropane | ND | 0.5 | 0.07 |
| Bromodichloromethane | ND | 0.5 | 0.08 |
| Dibromomethane | ND | 0.5 | 0.06 |
| 4-Methyl-2-Pentanone | ND | 10 | 0.09 |
| cis-1,3-Dichloropropene | ND | 0.5 | 0.04 |
| Toluene | ND | 0.5 | 0.06 |
| trans-1,3-Dichloropropene | ND | 0.5 | 0.07 |
| 1,1,2-Trichloroethane | ND | 0.5 | 0.09 |
| 2-Hexanone | ND | 10 | 0.1 |
| 1,3-Dichloropropane | ND | 0.5 | 0.05 |
| Tetrachloroethene | ND | 0.5 | 0.09 |
| Dibromochloromethane | ND | 0.5 | 0.08 |
| 1,2-Dibromoethane | ND | 0.5 | 0.05 |
| Chlorobenzene | ND | 0.5 | 0.08 |
| 1,1,1,2-Tetrachloroethane | ND | 0.5 | 0.05 |
| Ethylbenzene | ND | 0.5 | 0.06 |
| m,p-Xylenes | ND | 0.5 | 0.1 |
| o-Xylene | ND | 0.5 | 0.1 |
| Styrene | ND | 0.5 | 0.07 |
| Bromoform | ND | 1.0 | 0.08 |
| Isopropylbenzene | ND | 0.5 | 0.05 |
| 1,1,2,2-Tetrachloroethane | ND | 0.5 | 0.07 |
| 1,2,3-Trichloropropane | ND | 0.5 | 0.2 |
| Propylbenzene | ND | 0.5 | 0.05 |
| Bromobenzene | ND | 0.5 | 0.07 |
| 1,3,5-Trimethylbenzene | ND | 0.5 | 0.08 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



34.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Field ID: | MW2.2-081505 | Batch#: | 105042 |
| Lab ID: | 181301-003 | Sampled: | 08/15/05 |
| Matrix: | Water | Received: | 08/17/05 |
| Units: | ug/L | Analyzed: | 08/22/05 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| 2-Chlorotoluene | ND | 0.5 | 0.05 |
| 4-Chlorotoluene | ND | 0.5 | 0.03 |
| tert-Butylbenzene | ND | 0.5 | 0.04 |
| 1,2,4-Trimethylbenzene | ND | 0.5 | 0.08 |
| sec-Butylbenzene | ND | 0.5 | 0.04 |
| para-Isopropyl Toluene | ND | 0.5 | 0.06 |
| 1,3-Dichlorobenzene | ND | 0.5 | 0.07 |
| 1,4-Dichlorobenzene | ND | 0.5 | 0.09 |
| n-Butylbenzene | ND | 0.5 | 0.05 |
| 1,2-Dichlorobenzene | ND | 0.5 | 0.07 |
| 1,2-Dibromo-3-Chloropropane | ND | 2.0 | 0.3 |
| 1,2,4-Trichlorobenzene | ND | 0.5 | 0.2 |
| Hexachlorobutadiene | ND | 0.5 | 0.2 |
| Naphthalene | ND | 2.0 | 0.2 |
| 1,2,3-Trichlorobenzene | ND | 0.5 | 0.2 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 109 | 80-120 |
| 1,2-Dichloroethane-d4 | 115 | 80-122 |
| Toluene-d8 | 105 | 80-120 |
| Bromofluorobenzene | 109 | 80-124 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



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Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Field ID: | MW2.3-081505 | Batch#: | 105042 |
| Lab ID: | 181301-004 | Sampled: | 08/15/05 |
| Matrix: | Water | Received: | 08/17/05 |
| Units: | ug/L | Analyzed: | 08/22/05 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Freon 12 | ND | 1.0 | 0.2 |
| Chloromethane | ND | 1.0 | 0.2 |
| Vinyl Chloride | ND | 0.5 | 0.2 |
| Bromomethane | ND | 1.0 | 0.2 |
| Chloroethane | ND | 1.0 | 0.2 |
| Ethanol | ND | 1,000 | 7.9 |
| Trichlorofluoromethane | ND | 1.0 | 0.09 |
| Isopropanol | ND | 100 | 1.4 |
| Acetone | ND | 10 | 0.3 |
| Freon 113 | ND | 5.0 | 0.1 |
| 1,1-Dichloroethene | ND | 0.5 | 0.09 |
| Methylene Chloride | ND | 10 | 0.1 |
| Carbon Disulfide | ND | 0.5 | 0.06 |
| MTBE | ND | 0.5 | 0.05 |
| trans-1,2-Dichloroethene | ND | 0.5 | 0.1 |
| Vinyl Acetate | ND | 10 | 0.08 |
| 1,1-Dichloroethane | ND | 0.5 | 0.06 |
| 2-Butanone | ND | 10 | 0.2 |
| cis-1,2-Dichloroethene | ND | 0.5 | 0.1 |
| 2,2-Dichloropropane | ND | 0.5 | 0.08 |
| Chloroform | ND | 0.5 | 0.03 |
| Bromochloromethane | ND | 0.5 | 0.2 |
| 1,1,1-Trichloroethane | ND | 0.5 | 0.05 |
| 1,1-Dichloropropene | ND | 0.5 | 0.05 |
| Carbon Tetrachloride | ND | 0.5 | 0.1 |
| 1,2-Dichloroethane | ND | 0.5 | 0.06 |
| Benzene | ND | 0.5 | 0.04 |
| Trichloroethene | ND | 0.5 | 0.07 |
| 1,2-Dichloropropane | ND | 0.5 | 0.07 |
| Bromodichloromethane | ND | 0.5 | 0.08 |
| Dibromomethane | ND | 0.5 | 0.06 |
| 4-Methyl-2-Pentanone | ND | 10 | 0.09 |
| cis-1,3-Dichloropropene | ND | 0.5 | 0.04 |
| Toluene | ND | 0.5 | 0.06 |
| trans-1,3-Dichloropropene | ND | 0.5 | 0.07 |
| 1,1,2-Trichloroethane | ND | 0.5 | 0.09 |
| 2-Hexanone | ND | 10 | 0.1 |
| 1,3-Dichloropropane | ND | 0.5 | 0.05 |
| Tetrachloroethene | ND | 0.5 | 0.09 |
| Dibromochloromethane | ND | 0.5 | 0.08 |
| 1,2-Dibromoethane | ND | 0.5 | 0.05 |
| Chlorobenzene | ND | 0.5 | 0.08 |
| 1,1,1,2-Tetrachloroethane | ND | 0.5 | 0.05 |
| Ethylbenzene | ND | 0.5 | 0.06 |
| m,p-Xylenes | ND | 0.5 | 0.1 |
| o-Xylene | ND | 0.5 | 0.1 |
| Styrene | ND | 0.5 | 0.07 |
| Bromoform | ND | 1.0 | 0.08 |
| Isopropylbenzene | ND | 0.5 | 0.05 |
| 1,1,2,2-Tetrachloroethane | ND | 0.5 | 0.07 |
| 1,2,3-Trichloropropane | ND | 0.5 | 0.2 |
| Propylbenzene | ND | 0.5 | 0.05 |
| Bromobenzene | ND | 0.5 | 0.07 |
| 1,3,5-Trimethylbenzene | ND | 0.5 | 0.08 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



35.0

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Analytical Laboratories, Since 1878

# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Field ID: | MW2.3-081505 | Batch#: | 105042 |
| Lab ID: | 181301-004 | Sampled: | 08/15/05 |
| Matrix: | Water | Received: | 08/17/05 |
| Units: | ug/L | Analyzed: | 08/22/05 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| 2-Chlorotoluene | ND | 0.5 | 0.05 |
| 4-Chlorotoluene | ND | 0.5 | 0.03 |
| tert-Butylbenzene | ND | 0.5 | 0.04 |
| 1,2,4-Trimethylbenzene | ND | 0.5 | 0.08 |
| sec-Butylbenzene | ND | 0.5 | 0.04 |
| para-Isopropyl Toluene | ND | 0.5 | 0.06 |
| 1,3-Dichlorobenzene | ND | 0.5 | 0.07 |
| 1,4-Dichlorobenzene | ND | 0.5 | 0.09 |
| n-Butylbenzene | ND | 0.5 | 0.05 |
| 1,2-Dichlorobenzene | ND | 0.5 | 0.07 |
| 1,2-Dibromo-3-Chloropropane | ND | 2.0 | 0.3 |
| 1,2,4-Trichlorobenzene | ND | 0.5 | 0.2 |
| Hexachlorobutadiene | ND | 0.5 | 0.2 |
| Naphthalene | ND | 2.0 | 0.2 |
| 1,2,3-Trichlorobenzene | ND | 0.5 | 0.2 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 110 | 80-120 |
| 1,2-Dichloroethane-d4 | 117 | 80-122 |
| Toluene-d8 | 104 | 80-120 |
| Bromofluorobenzene | 98 | 80-124 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



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Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Field ID: | MW3.1-081605 | Batch#: | 105042 |
| Lab ID: | 181301-005 | Sampled: | 08/16/05 |
| Matrix: | Water | Received: | 08/17/05 |
| Units: | ug/L | Analyzed: | 08/22/05 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Freon 12 | ND | 1.0 | 0.2 |
| Chloromethane | ND | 1.0 | 0.2 |
| Vinyl Chloride | ND | 0.5 | 0.2 |
| Bromomethane | ND | 1.0 | 0.2 |
| Chloroethane | ND | 1.0 | 0.2 |
| Ethanol | ND | 1,000 | 7.9 |
| Trichlorofluoromethane | ND | 1.0 | 0.09 |
| Isopropanol | ND | 100 | 1.4 |
| Acetone | ND | 10 | 0.3 |
| Freon 113 | ND | 5.0 | 0.1 |
| 1,1-Dichloroethene | ND | 0.5 | 0.09 |
| Methylene Chloride | ND | 10 | 0.1 |
| Carbon Disulfide | ND | 0.5 | 0.06 |
| MTBE | ND | 0.5 | 0.05 |
| trans-1,2-Dichloroethene | ND | 0.5 | 0.1 |
| Vinyl Acetate | ND | 10 | 0.08 |
| 1,1-Dichloroethane | 1.8 | 0.5 | 0.06 |
| 2-Butanone | ND | 10 | 0.2 |
| cis-1,2-Dichloroethene | 1.7 | 0.5 | 0.1 |
| 2,2-Dichloropropane | ND | 0.5 | 0.08 |
| Chloroform | ND | 0.5 | 0.03 |
| Bromochloromethane | ND | 0.5 | 0.2 |
| 1,1,1-Trichloroethane | ND | 0.5 | 0.05 |
| 1,1-Dichloropropene | ND | 0.5 | 0.05 |
| Carbon Tetrachloride | ND | 0.5 | 0.1 |
| 1,2-Dichloroethane | ND | 0.5 | 0.06 |
| Benzene | ND | 0.5 | 0.04 |
| Trichloroethene | 0.8 | 0.5 | 0.07 |
| 1,2-Dichloropropane | ND | 0.5 | 0.07 |
| Bromodichloromethane | ND | 0.5 | 0.08 |
| Dibromomethane | ND | 0.5 | 0.06 |
| 4-Methyl-2-Pentanone | ND | 10 | 0.09 |
| cis-1,3-Dichloropropene | ND | 0.5 | 0.04 |
| Toluene | ND | 0.5 | 0.06 |
| trans-1,3-Dichloropropene | ND | 0.5 | 0.07 |
| 1,1,2-Trichloroethane | ND | 0.5 | 0.09 |
| 2-Hexanone | ND | 10 | 0.1 |
| 1,3-Dichloropropane | ND | 0.5 | 0.05 |
| Tetrachloroethene | 1.9 | 0.5 | 0.09 |
| Dibromochloromethane | ND | 0.5 | 0.08 |
| 1,2-Dibromoethane | ND | 0.5 | 0.05 |
| Chlorobenzene | ND | 0.5 | 0.08 |
| 1,1,1,2-Tetrachloroethane | ND | 0.5 | 0.05 |
| Ethylbenzene | ND | 0.5 | 0.06 |
| m,p-Xylenes | ND | 0.5 | 0.1 |
| o-Xylene | ND | 0.5 | 0.1 |
| Styrene | ND | 0.5 | 0.07 |
| Bromoform | ND | 1.0 | 0.08 |
| Isopropylbenzene | ND | 0.5 | 0.05 |
| 1,1,2,2-Tetrachloroethane | ND | 0.5 | 0.07 |
| 1,2,3-Trichloropropane | ND | 0.5 | 0.2 |
| Propylbenzene | ND | 0.5 | 0.05 |
| Bromobenzene | ND | 0.5 | 0.07 |
| 1,3,5-Trimethylbenzene | ND | 0.5 | 0.08 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



36.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Field ID: | MW3.1-081605 | Batch#: | 105042 |
| Lab ID: | 181301-005 | Sampled: | 08/16/05 |
| Matrix: | Water | Received: | 08/17/05 |
| Units: | ug/L | Analyzed: | 08/22/05 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| 2-Chlorotoluene | ND | 0.5 | 0.05 |
| 4-Chlorotoluene | ND | 0.5 | 0.03 |
| tert-Butylbenzene | ND | 0.5 | 0.04 |
| 1,2,4-Trimethylbenzene | ND | 0.5 | 0.08 |
| sec-Butylbenzene | ND | 0.5 | 0.04 |
| para-Isopropyl Toluene | ND | 0.5 | 0.06 |
| 1,3-Dichlorobenzene | ND | 0.5 | 0.07 |
| 1,4-Dichlorobenzene | ND | 0.5 | 0.09 |
| n-Butylbenzene | ND | 0.5 | 0.05 |
| 1,2-Dichlorobenzene | ND | 0.5 | 0.07 |
| 1,2-Dibromo-3-Chloropropane | ND | 2.0 | 0.3 |
| 1,2,4-Trichlorobenzene | ND | 0.5 | 0.2 |
| Hexachlorobutadiene | ND | 0.5 | 0.2 |
| Naphthalene | ND | 2.0 | 0.2 |
| 1,2,3-Trichlorobenzene | ND | 0.5 | 0.2 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 113 | 80-120 |
| 1,2-Dichloroethane-d4 | 116 | 80-122 |
| Toluene-d8 | 101 | 80-120 |
| Bromofluorobenzene | 99 | 80-124 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



36.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Field ID: | MW3.2-081605 | Batch#: | 105042 |
| Lab ID: | 181301-006 | Sampled: | 08/16/05 |
| Matrix: | Water | Received: | 08/17/05 |
| Units: | ug/L | Analyzed: | 08/22/05 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Freon 12 | ND | 1.0 | 0.2 |
| Chloromethane | ND | 1.0 | 0.2 |
| Vinyl Chloride | ND | 0.5 | 0.2 |
| Bromomethane | ND | 1.0 | 0.2 |
| Chloroethane | ND | 1.0 | 0.2 |
| Ethanol | ND | 1,000 | 7.9 |
| Trichlorofluoromethane | ND | 1.0 | 0.09 |
| Isopropanol | ND | 100 | 1.4 |
| Acetone | ND | 10 | 0.3 |
| Freon 113 | 1.2 J | 5.0 | 0.1 |
| 1,1-Dichloroethene | ND | 0.5 | 0.09 |
| Methylene Chloride | ND | 10 | 0.1 |
| Carbon Disulfide | ND | 0.5 | 0.06 |
| MTBE | 1.7 | 0.5 | 0.05 |
| trans-1,2-Dichloroethene | ND | 0.5 | 0.1 |
| Vinyl Acetate | ND | 10 | 0.08 |
| 1,1-Dichloroethane | 0.3 J | 0.5 | 0.06 |
| 2-Butanone | ND | 10 | 0.2 |
| cis-1,2-Dichloroethene | 1.5 | 0.5 | 0.1 |
| 2,2-Dichloropropane | ND | 0.5 | 0.08 |
| Chloroform | ND | 0.5 | 0.03 |
| Bromochloromethane | ND | 0.5 | 0.2 |
| 1,1,1-Trichloroethane | 0.3 J | 0.5 | 0.05 |
| 1,1-Dichloropropene | ND | 0.5 | 0.05 |
| Carbon Tetrachloride | ND | 0.5 | 0.1 |
| 1,2-Dichloroethane | ND | 0.5 | 0.06 |
| Benzene | ND | 0.5 | 0.04 |
| Trichloroethene | 0.4 J | 0.5 | 0.07 |
| 1,2-Dichloropropane | ND | 0.5 | 0.07 |
| Bromodichloromethane | ND | 0.5 | 0.08 |
| Dibromomethane | ND | 0.5 | 0.06 |
| 4-Methyl-2-Pentanone | ND | 10 | 0.09 |
| cis-1,3-Dichloropropene | ND | 0.5 | 0.04 |
| Toluene | ND | 0.5 | 0.06 |
| trans-1,3-Dichloropropene | ND | 0.5 | 0.07 |
| 1,1,2-Trichloroethane | ND | 0.5 | 0.09 |
| 2-Hexanone | ND | 10 | 0.1 |
| 1,3-Dichloropropane | ND | 0.5 | 0.05 |
| Tetrachloroethene | 2.4 | 0.5 | 0.09 |
| Dibromochloromethane | ND | 0.5 | 0.08 |
| 1,2-Dibromoethane | ND | 0.5 | 0.05 |
| Chlorobenzene | ND | 0.5 | 0.08 |
| 1,1,1,2-Tetrachloroethane | ND | 0.5 | 0.05 |
| Ethylbenzene | ND | 0.5 | 0.06 |
| m,p-Xylenes | ND | 0.5 | 0.1 |
| o-Xylene | ND | 0.5 | 0.1 |
| Styrene | ND | 0.5 | 0.07 |
| Bromoform | ND | 1.0 | 0.08 |
| Isopropylbenzene | ND | 0.5 | 0.05 |
| 1,1,2,2-Tetrachloroethane | ND | 0.5 | 0.07 |
| 1,2,3-Trichloropropane | ND | 0.5 | 0.2 |
| Propylbenzene | ND | 0.5 | 0.05 |
| Bromobenzene | ND | 0.5 | 0.07 |

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



37.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Field ID: | MW3.2-081605 | Batch#: | 105042 |
| Lab ID: | 181301-006 | Sampled: | 08/16/05 |
| Matrix: | Water | Received: | 08/17/05 |
| Units: | ug/L | Analyzed: | 08/22/05 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| 1,3,5-Trimethylbenzene | ND | 0.5 | 0.08 |
| 2-Chlorotoluene | ND | 0.5 | 0.05 |
| 4-Chlorotoluene | ND | 0.5 | 0.03 |
| tert-Butylbenzene | ND | 0.5 | 0.04 |
| 1,2,4-Trimethylbenzene | ND | 0.5 | 0.08 |
| sec-Butylbenzene | ND | 0.5 | 0.04 |
| para-Isopropyl Toluene | ND | 0.5 | 0.06 |
| 1,3-Dichlorobenzene | ND | 0.5 | 0.07 |
| 1,4-Dichlorobenzene | ND | 0.5 | 0.09 |
| n-Butylbenzene | ND | 0.5 | 0.05 |
| 1,2-Dichlorobenzene | ND | 0.5 | 0.07 |
| 1,2-Dibromo-3-Chloropropane | ND | 2.0 | 0.3 |
| 1,2,4-Trichlorobenzene | ND | 0.5 | 0.2 |
| Hexachlorobutadiene | ND | 0.5 | 0.2 |
| Naphthalene | ND | 2.0 | 0.2 |
| 1,2,3-Trichlorobenzene | ND | 0.5 | 0.2 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 113 | 80-120 |
| 1,2-Dichloroethane-d4 | 121 | 80-122 |
| Toluene-d8 | 101 | 80-120 |
| Bromofluorobenzene | 98 | 80-124 |

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



37.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Field ID: | MW-DUP-1-081605 | Batch#: | 105042 |
| Lab ID: | 181301-007 | Sampled: | 08/16/05 |
| Matrix: | Water | Received: | 08/17/05 |
| Units: | ug/L | Analyzed: | 08/22/05 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Freon 12 | ND | 1.0 | 0.2 |
| Chloromethane | ND | 1.0 | 0.2 |
| Vinyl Chloride | ND | 0.5 | 0.2 |
| Bromomethane | ND | 1.0 | 0.2 |
| Chloroethane | ND | 1.0 | 0.2 |
| Ethanol | ND | 1,000 | 7.9 |
| Trichlorofluoromethane | ND | 1.0 | 0.09 |
| Isopropanol | ND | 100 | 1.4 |
| Acetone | ND | 10 | 0.3 |
| Freon 113 | ND | 5.0 | 0.1 |
| 1,1-Dichloroethene | ND | 0.5 | 0.09 |
| Methylene Chloride | ND | 10 | 0.1 |
| Carbon Disulfide | ND | 0.5 | 0.06 |
| MTBE | ND | 0.5 | 0.05 |
| trans-1,2-Dichloroethene | ND | 0.5 | 0.1 |
| Vinyl Acetate | ND | 10 | 0.08 |
| 1,1-Dichloroethane | 1.6 | 0.5 | 0.06 |
| 2-Butanone | ND | 10 | 0.2 |
| cis-1,2-Dichloroethene | 1.5 | 0.5 | 0.1 |
| 2,2-Dichloropropane | ND | 0.5 | 0.08 |
| Chloroform | ND | 0.5 | 0.03 |
| Bromochloromethane | ND | 0.5 | 0.2 |
| 1,1,1-Trichloroethane | ND | 0.5 | 0.05 |
| 1,1-Dichloropropene | ND | 0.5 | 0.05 |
| Carbon Tetrachloride | ND | 0.5 | 0.1 |
| 1,2-Dichloroethane | ND | 0.5 | 0.06 |
| Benzene | ND | 0.5 | 0.04 |
| Trichloroethene | 0.8 | 0.5 | 0.07 |
| 1,2-Dichloropropane | ND | 0.5 | 0.07 |
| Bromodichloromethane | ND | 0.5 | 0.08 |
| Dibromomethane | ND | 0.5 | 0.06 |
| 4-Methyl-2-Pentanone | ND | 10 | 0.09 |
| cis-1,3-Dichloropropene | ND | 0.5 | 0.04 |
| Toluene | ND | 0.5 | 0.06 |
| trans-1,3-Dichloropropene | ND | 0.5 | 0.07 |
| 1,1,2-Trichloroethane | ND | 0.5 | 0.09 |
| 2-Hexanone | ND | 10 | 0.1 |
| 1,3-Dichloropropane | ND | 0.5 | 0.05 |
| Tetrachloroethene | 2.0 | 0.5 | 0.09 |
| Dibromochloromethane | ND | 0.5 | 0.08 |
| 1,2-Dibromoethane | ND | 0.5 | 0.05 |
| Chlorobenzene | ND | 0.5 | 0.08 |
| 1,1,1,2-Tetrachloroethane | ND | 0.5 | 0.05 |
| Ethylbenzene | ND | 0.5 | 0.06 |
| m,p-Xylenes | ND | 0.5 | 0.1 |
| o-Xylene | ND | 0.5 | 0.1 |
| Styrene | ND | 0.5 | 0.07 |
| Bromoform | ND | 1.0 | 0.08 |
| Isopropylbenzene | ND | 0.5 | 0.05 |
| 1,1,2,2-Tetrachloroethane | ND | 0.5 | 0.07 |
| 1,2,3-Trichloropropane | ND | 0.5 | 0.2 |
| Propylbenzene | ND | 0.5 | 0.05 |
| Bromobenzene | ND | 0.5 | 0.07 |
| 1,3,5-Trimethylbenzene | ND | 0.5 | 0.08 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



38.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Field ID: | MW-DUP-1-081605 | Batch#: | 105042 |
| Lab ID: | 181301-007 | Sampled: | 08/16/05 |
| Matrix: | Water | Received: | 08/17/05 |
| Units: | ug/L | Analyzed: | 08/22/05 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| 2-Chlorotoluene | ND | 0.5 | 0.05 |
| 4-Chlorotoluene | ND | 0.5 | 0.03 |
| tert-Butylbenzene | ND | 0.5 | 0.04 |
| 1,2,4-Trimethylbenzene | ND | 0.5 | 0.08 |
| sec-Butylbenzene | ND | 0.5 | 0.04 |
| para-Isopropyl Toluene | ND | 0.5 | 0.06 |
| 1,3-Dichlorobenzene | ND | 0.5 | 0.07 |
| 1,4-Dichlorobenzene | ND | 0.5 | 0.09 |
| n-Butylbenzene | ND | 0.5 | 0.05 |
| 1,2-Dichlorobenzene | ND | 0.5 | 0.07 |
| 1,2-Dibromo-3-Chloropropane | ND | 2.0 | 0.3 |
| 1,2,4-Trichlorobenzene | ND | 0.5 | 0.2 |
| Hexachlorobutadiene | ND | 0.5 | 0.2 |
| Naphthalene | ND | 2.0 | 0.2 |
| 1,2,3-Trichlorobenzene | ND | 0.5 | 0.2 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 110 | 80-120 |
| 1,2-Dichloroethane-d4 | 121 | 80-122 |
| Toluene-d8 | 111 | 80-120 |
| Bromofluorobenzene | 98 | 80-124 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



38.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

## Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Matrix: | Water | Batch#: | 105042 |
| Units: | ug/L | Analyzed: | 08/22/05 |
| Diln Fac: | 1.000 | | |

Type: BS Lab ID: QC305895

| Analyte | Spiked | Result | %REC | Limits |
|---|---|---|---|---|
| 1,1-Dichloroethene | 25.00 | 23.81 | 95 | 75-121 |
| Benzene | 25.00 | 23.60 | 94 | 80-120 |
| Trichloroethene | 25.00 | 24.46 | 98 | 78-120 |
| Toluene | 25.00 | 27.49 | 110 | 80-120 |
| Chlorobenzene | 25.00 | 23.71 | 95 | 80-120 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 99 | 80-120 |
| 1,2-Dichloroethane-d4 | 100 | 80-122 |
| Toluene-d8 | 107 | 80-120 |
| Bromofluorobenzene | 101 | 80-124 |

Type: BSD Lab ID: QC305896

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 25.00 | 24.69 | 99 | 75-121 | 4 | 20 |
| Benzene | 25.00 | 26.57 | 106 | 80-120 | 12 | 20 |
| Trichloroethene | 25.00 | 26.95 | 108 | 78-120 | 10 | 20 |
| Toluene | 25.00 | 28.39 | 114 | 80-120 | 3 | 20 |
| Chlorobenzene | 25.00 | 26.45 | 106 | 80-120 | 11 | 20 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 98 | 80-120 |
| 1,2-Dichloroethane-d4 | 108 | 80-122 |
| Toluene-d8 | 110 | 80-120 |
| Bromofluorobenzene | 103 | 80-124 |

RPD= Relative Percent Difference



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Batch QC Report

## Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Type: | BLANK | Diln Fac: | 1.000 |
| Lab ID: | QC305897 | Batch#: | 105042 |
| Matrix: | Water | Analyzed: | 08/22/05 |
| Units: | ug/L | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Freon 12 | ND | 1.0 | 0.2 |
| Chloromethane | ND | 1.0 | 0.2 |
| Vinyl Chloride | ND | 0.5 | 0.2 |
| Bromomethane | ND | 1.0 | 0.2 |
| Chloroethane | ND | 1.0 | 0.2 |
| Ethanol | ND | 1,000 | 7.9 |
| Trichlorofluoromethane | ND | 1.0 | 0.09 |
| Isopropanol | ND | 100 | 1.4 |
| Acetone | ND | 10 | 0.3 |
| Freon 113 | ND | 5.0 | 0.1 |
| 1,1-Dichloroethene | ND | 0.5 | 0.09 |
| Methylene Chloride | ND | 10 | 0.1 |
| Carbon Disulfide | ND | 0.5 | 0.06 |
| MTBE | ND | 0.5 | 0.05 |
| trans-1,2-Dichloroethene | ND | 0.5 | 0.1 |
| Vinyl Acetate | ND | 10 | 0.08 |
| 1,1-Dichloroethane | ND | 0.5 | 0.06 |
| 2-Butanone | ND | 10 | 0.2 |
| cis-1,2-Dichloroethene | ND | 0.5 | 0.1 |
| 2,2-Dichloropropane | ND | 0.5 | 0.08 |
| Chloroform | ND | 0.5 | 0.03 |
| Bromochloromethane | ND | 0.5 | 0.2 |
| 1,1,1-Trichloroethane | ND | 0.5 | 0.05 |
| 1,1-Dichloropropene | ND | 0.5 | 0.05 |
| Carbon Tetrachloride | ND | 0.5 | 0.1 |
| 1,2-Dichloroethane | ND | 0.5 | 0.06 |
| Benzene | ND | 0.5 | 0.04 |
| Trichloroethene | ND | 0.5 | 0.07 |
| 1,2-Dichloropropane | ND | 0.5 | 0.07 |
| Bromodichloromethane | ND | 0.5 | 0.08 |
| Dibromomethane | ND | 0.5 | 0.06 |
| 4-Methyl-2-Pentanone | ND | 10 | 0.09 |
| cis-1,3-Dichloropropene | ND | 0.5 | 0.04 |
| Toluene | ND | 0.5 | 0.06 |
| trans-1,3-Dichloropropene | ND | 0.5 | 0.07 |
| 1,1,2-Trichloroethane | ND | 0.5 | 0.09 |
| 2-Hexanone | ND | 10 | 0.1 |
| 1,3-Dichloropropane | ND | 0.5 | 0.05 |
| Tetrachloroethene | ND | 0.5 | 0.09 |
| Dibromochloromethane | ND | 0.5 | 0.08 |
| 1,2-Dibromoethane | ND | 0.5 | 0.05 |
| Chlorobenzene | ND | 0.5 | 0.08 |
| 1,1,1,2-Tetrachloroethane | ND | 0.5 | 0.05 |
| Ethylbenzene | ND | 0.5 | 0.06 |
| m,p-Xylenes | ND | 0.5 | 0.1 |
| o-Xylene | ND | 0.5 | 0.1 |
| Styrene | ND | 0.5 | 0.07 |
| Bromoform | ND | 1.0 | 0.08 |
| Isopropylbenzene | ND | 0.5 | 0.05 |
| 1,1,2,2-Tetrachloroethane | ND | 0.5 | 0.07 |
| 1,2,3-Trichloropropane | ND | 0.5 | 0.2 |
| Propylbenzene | ND | 0.5 | 0.05 |
| Bromobenzene | ND | 0.5 | 0.07 |
| 1,3,5-Trimethylbenzene | ND | 0.5 | 0.08 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



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Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

## Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Type: | BLANK | Diln Fac: | 1.000 |
| Lab ID: | QC305897 | Batch#: | 105042 |
| Matrix: | Water | Analyzed: | 08/22/05 |
| Units: | ug/L | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| 2-Chlorotoluene | ND | 0.5 | 0.05 |
| 4-Chlorotoluene | ND | 0.5 | 0.03 |
| tert-Butylbenzene | ND | 0.5 | 0.04 |
| 1,2,4-Trimethylbenzene | ND | 0.5 | 0.08 |
| sec-Butylbenzene | ND | 0.5 | 0.04 |
| para-Isopropyl Toluene | ND | 0.5 | 0.06 |
| 1,3-Dichlorobenzene | ND | 0.5 | 0.07 |
| 1,4-Dichlorobenzene | ND | 0.5 | 0.09 |
| n-Butylbenzene | ND | 0.5 | 0.05 |
| 1,2-Dichlorobenzene | ND | 0.5 | 0.07 |
| 1,2-Dibromo-3-Chloropropane | ND | 2.0 | 0.3 |
| 1,2,4-Trichlorobenzene | ND | 0.5 | 0.2 |
| Hexachlorobutadiene | ND | 0.5 | 0.2 |
| Naphthalene | ND | 2.0 | 0.2 |
| 1,2,3-Trichlorobenzene | ND | 0.5 | 0.2 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 107 | 80-120 |
| 1,2-Dichloroethane-d4 | 110 | 80-122 |
| Toluene-d8 | 101 | 80-120 |
| Bromofluorobenzene | 98 | 80-124 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



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Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

## Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Type: | LCS | Diln Fac: | 1.000 |
| Lab ID: | QC306038 | Batch#: | 105077 |
| Matrix: | Water | Analyzed: | 08/23/05 |
| Units: | ug/L | | |

| Analyte | Spiked | Result | %REC | Limits |
|---|---|---|---|---|
| 1,1-Dichloroethene | 25.00 | 24.54 | 98 | 75-121 |
| Benzene | 25.00 | 23.64 | 95 | 80-120 |
| Trichloroethene | 25.00 | 24.59 | 98 | 78-120 |
| Toluene | 25.00 | 25.11 | 100 | 80-120 |
| Chlorobenzene | 25.00 | 24.77 | 99 | 80-120 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 104 | 80-120 |
| 1,2-Dichloroethane-d4 | 106 | 80-122 |
| Toluene-d8 | 101 | 80-120 |
| Bromofluorobenzene | 90 | 80-124 |

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Batch QC Report

## Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Type: | BLANK | Diln Fac: | 1.000 |
| Lab ID: | QC306039 | Batch#: | 105077 |
| Matrix: | Water | Analyzed: | 08/23/05 |
| Units: | ug/L | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Freon 12 | ND | 1.0 | 0.2 |
| Chloromethane | ND | 1.0 | 0.2 |
| Vinyl Chloride | ND | 0.5 | 0.2 |
| Bromomethane | ND | 1.0 | 0.2 |
| Chloroethane | ND | 1.0 | 0.2 |
| Ethanol | ND | 1,000 | 7.9 |
| Trichlorofluoromethane | ND | 1.0 | 0.09 |
| Isopropanol | ND | 100 | 1.4 |
| Acetone | ND | 10 | 0.3 |
| Freon 113 | ND | 5.0 | 0.1 |
| 1,1-Dichloroethene | ND | 0.5 | 0.09 |
| Methylene Chloride | ND | 10 | 0.1 |
| Carbon Disulfide | ND | 0.5 | 0.06 |
| MTBE | ND | 0.5 | 0.05 |
| trans-1,2-Dichloroethene | ND | 0.5 | 0.1 |
| Vinyl Acetate | ND | 10 | 0.08 |
| 1,1-Dichloroethane | ND | 0.5 | 0.06 |
| 2-Butanone | ND | 10 | 0.2 |
| cis-1,2-Dichloroethene | ND | 0.5 | 0.1 |
| 2,2-Dichloropropane | ND | 0.5 | 0.08 |
| Chloroform | 0.1 J | 0.5 | 0.03 |
| Bromochloromethane | ND | 0.5 | 0.2 |
| 1,1,1-Trichloroethane | ND | 0.5 | 0.05 |
| 1,1-Dichloropropene | ND | 0.5 | 0.05 |
| Carbon Tetrachloride | ND | 0.5 | 0.1 |
| 1,2-Dichloroethane | ND | 0.5 | 0.06 |
| Benzene | ND | 0.5 | 0.04 |
| Trichloroethene | ND | 0.5 | 0.07 |
| 1,2-Dichloropropane | ND | 0.5 | 0.07 |
| Bromodichloromethane | ND | 0.5 | 0.08 |
| Dibromomethane | ND | 0.5 | 0.06 |
| 4-Methyl-2-Pentanone | ND | 10 | 0.09 |
| cis-1,3-Dichloropropene | ND | 0.5 | 0.04 |
| Toluene | ND | 0.5 | 0.06 |
| trans-1,3-Dichloropropene | ND | 0.5 | 0.07 |
| 1,1,2-Trichloroethane | ND | 0.5 | 0.09 |
| 2-Hexanone | ND | 10 | 0.1 |
| 1,3-Dichloropropane | ND | 0.5 | 0.05 |
| Tetrachloroethene | ND | 0.5 | 0.09 |
| Dibromochloromethane | ND | 0.5 | 0.08 |
| 1,2-Dibromoethane | ND | 0.5 | 0.05 |
| Chlorobenzene | ND | 0.5 | 0.08 |
| 1,1,1,2-Tetrachloroethane | ND | 0.5 | 0.05 |
| Ethylbenzene | ND | 0.5 | 0.06 |
| m,p-Xylenes | ND | 0.5 | 0.1 |
| o-Xylene | ND | 0.5 | 0.1 |
| Styrene | ND | 0.5 | 0.07 |
| Bromoform | ND | 1.0 | 0.08 |
| Isopropylbenzene | ND | 0.5 | 0.05 |
| 1,1,2,2-Tetrachloroethane | ND | 0.5 | 0.07 |
| 1,2,3-Trichloropropane | ND | 0.5 | 0.2 |
| Propylbenzene | ND | 0.5 | 0.05 |
| Bromobenzene | ND | 0.5 | 0.07 |

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



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Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

## Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Type: | BLANK | Diln Fac: | 1.000 |
| Lab ID: | QC306039 | Batch#: | 105077 |
| Matrix: | Water | Analyzed: | 08/23/05 |
| Units: | ug/L | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| 1,3,5-Trimethylbenzene | ND | 0.5 | 0.08 |
| 2-Chlorotoluene | ND | 0.5 | 0.05 |
| 4-Chlorotoluene | ND | 0.5 | 0.03 |
| tert-Butylbenzene | ND | 0.5 | 0.04 |
| 1,2,4-Trimethylbenzene | ND | 0.5 | 0.08 |
| sec-Butylbenzene | ND | 0.5 | 0.04 |
| para-Isopropyl Toluene | ND | 0.5 | 0.06 |
| 1,3-Dichlorobenzene | ND | 0.5 | 0.07 |
| 1,4-Dichlorobenzene | ND | 0.5 | 0.09 |
| n-Butylbenzene | ND | 0.5 | 0.05 |
| 1,2-Dichlorobenzene | ND | 0.5 | 0.07 |
| 1,2-Dibromo-3-Chloropropane | ND | 2.0 | 0.3 |
| 1,2,4-Trichlorobenzene | ND | 0.5 | 0.2 |
| Hexachlorobutadiene | ND | 0.5 | 0.2 |
| Naphthalene | ND | 2.0 | 0.2 |
| 1,2,3-Trichlorobenzene | ND | 0.5 | 0.2 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 110 | 80-120 |
| 1,2-Dichloroethane-d4 | 112 | 80-122 |
| Toluene-d8 | 99 | 80-120 |
| Bromofluorobenzene | 94 | 80-124 |

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



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Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

## Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Field ID: | MW2.1-081505 | Batch#: | 105077 |
| MSS Lab ID: | 181301-002 | Sampled: | 08/15/05 |
| Matrix: | Water | Received: | 08/17/05 |
| Units: | ug/L | Analyzed: | 08/23/05 |
| Diln Fac: | 1.000 | | |

Type: MS Lab ID: QC306040

| Analyte | MSS Result | Spiked | Result | %REC | Limits |
|---|---|---|---|---|---|
| 1,1-Dichloroethene | <0.08541 | 25.00 | 27.64 | 111 | 70-124 |
| Benzene | <0.04395 | 25.00 | 23.97 | 96 | 79-120 |
| Trichloroethene | <0.07237 | 25.00 | 26.41 | 106 | 71-120 |
| Toluene | <0.06277 | 25.00 | 23.83 | 95 | 77-120 |
| Chlorobenzene | <0.07887 | 25.00 | 24.96 | 100 | 80-120 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 114 | 80-120 |
| 1,2-Dichloroethane-d4 | 120 | 80-122 |
| Toluene-d8 | 100 | 80-120 |
| Bromofluorobenzene | 92 | 80-124 |

Type: MSD Lab ID: QC306041

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 25.00 | 28.02 | 112 | 70-124 | 1 | 20 |
| Benzene | 25.00 | 23.62 | 94 | 79-120 | 1 | 20 |
| Trichloroethene | 25.00 | 25.47 | 102 | 71-120 | 4 | 20 |
| Toluene | 25.00 | 25.33 | 101 | 77-120 | 6 | 20 |
| Chlorobenzene | 25.00 | 23.40 | 94 | 80-120 | 6 | 20 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 114 | 80-120 |
| 1,2-Dichloroethane-d4 | 121 | 80-122 |
| Toluene-d8 | 98 | 80-120 |
| Bromofluorobenzene | 97 | 80-124 |

RPD= Relative Percent Difference



43.0

Curtis & Tompkins, Ltd.
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# Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8270C |
| Field ID: | MW2.1-081505 | Batch#: | 104931 |
| Lab ID: | 181301-002 | Sampled: | 08/15/05 |
| Matrix: | Water | Received: | 08/17/05 |
| Units: | ug/L | Prepared: | 08/17/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/18/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| N-Nitrosodimethylamine | ND | 9.6 | 0.34 |
| Phenol | ND | 9.6 | 0.87 |
| bis(2-Chloroethyl)ether | ND | 9.6 | 0.52 |
| 2-Chlorophenol | ND | 9.6 | 0.86 |
| 1,3-Dichlorobenzene | ND | 9.6 | 0.53 |
| 1,4-Dichlorobenzene | ND | 9.6 | 0.53 |
| Benzyl alcohol | ND | 9.6 | 0.47 |
| 1,2-Dichlorobenzene | ND | 9.6 | 0.51 |
| 2-Methylphenol | ND | 9.6 | 1.0 |
| bis(2-Chloroisopropyl) ether | ND | 9.6 | 0.41 |
| 4-Methylphenol | ND | 9.6 | 0.99 |
| N-Nitroso-di-n-propylamine | ND | 9.6 | 0.48 |
| Hexachloroethane | ND | 9.6 | 0.45 |
| Nitrobenzene | ND | 9.6 | 0.46 |
| Isophorone | ND | 9.6 | 0.48 |
| 2-Nitrophenol | ND | 19 | 1.1 |
| 2,4-Dimethylphenol | ND | 9.6 | 0.93 |
| Benzoic acid | ND | 48 | 13 |
| bis(2-Chloroethoxy)methane | ND | 9.6 | 0.54 |
| 2,4-Dichlorophenol | ND | 9.6 | 0.93 |
| 1,2,4-Trichlorobenzene | ND | 9.6 | 0.48 |
| Naphthalene | ND | 9.6 | 0.52 |
| 4-Chloroaniline | ND | 9.6 | 0.57 |
| Hexachlorobutadiene | ND | 9.6 | 0.37 |
| 4-Chloro-3-methylphenol | ND | 9.6 | 0.96 |
| 2-Methylnaphthalene | ND | 9.6 | 0.63 |
| Hexachlorocyclopentadiene | ND | 19 | 1.0 |
| 2,4,6-Trichlorophenol | ND | 9.6 | 0.84 |
| 2,4,5-Trichlorophenol | ND | 9.6 | 0.75 |
| 2-Chloronaphthalene | ND | 9.6 | 0.43 |
| 2-Nitroaniline | ND | 19 | 0.41 |
| Dimethylphthalate | ND | 9.6 | 0.43 |
| Acenaphthylene | ND | 9.6 | 0.37 |
| 2,6-Dinitrotoluene | ND | 9.6 | 0.42 |
| 3-Nitroaniline | ND | 19 | 0.49 |
| Acenaphthene | ND | 9.6 | 0.42 |
| 2,4-Dinitrophenol | ND | 19 | 3.9 |
| 4-Nitrophenol | ND | 19 | 0.57 |
| Dibenzofuran | ND | 9.6 | 0.61 |
| 2,4-Dinitrotoluene | ND | 9.6 | 0.40 |
| Diethylphthalate | ND | 9.6 | 0.42 |
| Fluorene | ND | 9.6 | 0.46 |
| 4-Chlorophenyl-phenylether | ND | 9.6 | 0.44 |
| 4-Nitroaniline | ND | 19 | 0.57 |
| 4,6-Dinitro-2-methylphenol | ND | 19 | 0.62 |
| N-Nitrosodiphenylamine | ND | 9.6 | 0.48 |
| Azobenzene | ND | 9.6 | 0.50 |
| 4-Bromophenyl-phenylether | ND | 9.6 | 0.41 |
| Hexachlorobenzene | ND | 9.6 | 0.43 |
| Pentachlorophenol | ND | 19 | 0.51 |
| Phenanthrene | ND | 9.6 | 0.53 |
| Anthracene | ND | 9.6 | 0.45 |
| Di-n-butylphthalate | ND | 9.6 | 0.50 |
| Fluoranthene | ND | 9.6 | 0.51 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



5.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8270C |
| Field ID: | MW2.1-081505 | Batch#: | 104931 |
| Lab ID: | 181301-002 | Sampled: | 08/15/05 |
| Matrix: | Water | Received: | 08/17/05 |
| Units: | ug/L | Prepared: | 08/17/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/18/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Pyrene | ND | 9.6 | 0.53 |
| Butylbenzylphthalate | ND | 9.6 | 0.48 |
| 3,3'-Dichlorobenzidine | ND | 19 | 0.52 |
| Benzo(a)anthracene | ND | 9.6 | 0.51 |
| Chrysene | ND | 9.6 | 0.44 |
| bis(2-Ethylhexyl)phthalate | ND | 9.6 | 0.52 |
| Di-n-octylphthalate | ND | 9.6 | 0.40 |
| Benzo(b)fluoranthene | ND | 9.6 | 0.36 |
| Benzo(k)fluoranthene | ND | 9.6 | 0.49 |
| Benzo(a)pyrene | ND | 9.6 | 0.42 |
| Indeno(1,2,3-cd)pyrene | ND | 9.6 | 0.51 |
| Dibenz(a,h)anthracene | ND | 9.6 | 0.53 |
| Benzo(g,h,i)perylene | ND | 9.6 | 0.50 |

| Surrogate | %REC | Limits |
|---|---|---|
| 2-Fluorophenol | 59 | 41-120 |
| Phenol-d5 | 58 | 41-120 |
| 2,4,6-Tribromophenol | 62 | 38-120 |
| Nitrobenzene-d5 | 67 | 47-120 |
| 2-Fluorobiphenyl | 71 | 44-120 |
| Terphenyl-d14 | 60 | 16-120 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



5.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8270C |
| Field ID: | MW2.2-081505 | Batch#: | 104931 |
| Lab ID: | 181301-003 | Sampled: | 08/15/05 |
| Matrix: | Water | Received: | 08/17/05 |
| Units: | ug/L | Prepared: | 08/17/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/19/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| N-Nitrosodimethylamine | ND | 9.6 | 0.34 |
| Phenol | ND | 9.6 | 0.87 |
| bis(2-Chloroethyl)ether | ND | 9.6 | 0.52 |
| 2-Chlorophenol | ND | 9.6 | 0.86 |
| 1,3-Dichlorobenzene | ND | 9.6 | 0.53 |
| 1,4-Dichlorobenzene | ND | 9.6 | 0.53 |
| Benzyl alcohol | ND | 9.6 | 0.47 |
| 1,2-Dichlorobenzene | ND | 9.6 | 0.51 |
| 2-Methylphenol | ND | 9.6 | 1.0 |
| bis(2-Chloroisopropyl) ether | ND | 9.6 | 0.41 |
| 4-Methylphenol | ND | 9.6 | 0.99 |
| N-Nitroso-di-n-propylamine | ND | 9.6 | 0.48 |
| Hexachloroethane | ND | 9.6 | 0.45 |
| Nitrobenzene | ND | 9.6 | 0.46 |
| Isophorone | ND | 9.6 | 0.48 |
| 2-Nitrophenol | ND | 19 | 1.1 |
| 2,4-Dimethylphenol | ND | 9.6 | 0.93 |
| Benzoic acid | ND | 48 | 13 |
| bis(2-Chloroethoxy)methane | ND | 9.6 | 0.54 |
| 2,4-Dichlorophenol | ND | 9.6 | 0.93 |
| 1,2,4-Trichlorobenzene | ND | 9.6 | 0.48 |
| Naphthalene | ND | 9.6 | 0.52 |
| 4-Chloroaniline | ND | 9.6 | 0.57 |
| Hexachlorobutadiene | ND | 9.6 | 0.37 |
| 4-Chloro-3-methylphenol | ND | 9.6 | 0.96 |
| 2-Methylnaphthalene | ND | 9.6 | 0.63 |
| Hexachlorocyclopentadiene | ND | 19 | 1.0 |
| 2,4,6-Trichlorophenol | ND | 9.6 | 0.84 |
| 2,4,5-Trichlorophenol | ND | 9.6 | 0.75 |
| 2-Chloronaphthalene | ND | 9.6 | 0.43 |
| 2-Nitroaniline | ND | 19 | 0.41 |
| Dimethylphthalate | ND | 9.6 | 0.43 |
| Acenaphthylene | ND | 9.6 | 0.37 |
| 2,6-Dinitrotoluene | ND | 9.6 | 0.42 |
| 3-Nitroaniline | ND | 19 | 0.49 |
| Acenaphthene | ND | 9.6 | 0.42 |
| 2,4-Dinitrophenol | ND | 19 | 3.9 |
| 4-Nitrophenol | ND | 19 | 0.57 |
| Dibenzofuran | ND | 9.6 | 0.61 |
| 2,4-Dinitrotoluene | ND | 9.6 | 0.40 |
| Diethylphthalate | ND | 9.6 | 0.42 |
| Fluorene | ND | 9.6 | 0.46 |
| 4-Chlorophenyl-phenylether | ND | 9.6 | 0.44 |
| 4-Nitroaniline | ND | 19 | 0.57 |
| 4,6-Dinitro-2-methylphenol | ND | 19 | 0.62 |
| N-Nitrosodiphenylamine | ND | 9.6 | 0.48 |
| Azobenzene | ND | 9.6 | 0.50 |
| 4-Bromophenyl-phenylether | ND | 9.6 | 0.41 |
| Hexachlorobenzene | ND | 9.6 | 0.43 |
| Pentachlorophenol | ND | 19 | 0.51 |
| Phenanthrene | ND | 9.6 | 0.53 |
| Anthracene | ND | 9.6 | 0.45 |
| Di-n-butylphthalate | ND | 9.6 | 0.50 |
| Fluoranthene | ND | 9.6 | 0.51 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



6.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8270C |
| Field ID: | MW2.2-081505 | Batch#: | 104931 |
| Lab ID: | 181301-003 | Sampled: | 08/15/05 |
| Matrix: | Water | Received: | 08/17/05 |
| Units: | ug/L | Prepared: | 08/17/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/19/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Pyrene | ND | 9.6 | 0.53 |
| Butylbenzylphthalate | ND | 9.6 | 0.48 |
| 3,3'-Dichlorobenzidine | ND | 19 | 0.52 |
| Benzo(a)anthracene | ND | 9.6 | 0.51 |
| Chrysene | ND | 9.6 | 0.44 |
| bis(2-Ethylhexyl)phthalate | ND | 9.6 | 0.52 |
| Di-n-octylphthalate | ND | 9.6 | 0.40 |
| Benzo(b)fluoranthene | ND | 9.6 | 0.36 |
| Benzo(k)fluoranthene | ND | 9.6 | 0.49 |
| Benzo(a)pyrene | ND | 9.6 | 0.42 |
| Indeno(1,2,3-cd)pyrene | ND | 9.6 | 0.51 |
| Dibenz(a,h)anthracene | ND | 9.6 | 0.53 |
| Benzo(g,h,i)perylene | ND | 9.6 | 0.50 |

| Surrogate | %REC | Limits |
|---|---|---|
| 2-Fluorophenol | 69 | 41-120 |
| Phenol-d5 | 63 | 41-120 |
| 2,4,6-Tribromophenol | 74 | 38-120 |
| Nitrobenzene-d5 | 76 | 47-120 |
| 2-Fluorobiphenyl | 81 | 44-120 |
| Terphenyl-d14 | 69 | 16-120 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



6.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8270C |
| Field ID: | MW2.3-081505 | Batch#: | 104931 |
| Lab ID: | 181301-004 | Sampled: | 08/15/05 |
| Matrix: | Water | Received: | 08/17/05 |
| Units: | ug/L | Prepared: | 08/17/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/19/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| N-Nitrosodimethylamine | ND | 9.6 | 0.34 |
| Phenol | ND | 9.6 | 0.87 |
| bis(2-Chloroethyl)ether | ND | 9.6 | 0.52 |
| 2-Chlorophenol | ND | 9.6 | 0.86 |
| 1,3-Dichlorobenzene | ND | 9.6 | 0.53 |
| 1,4-Dichlorobenzene | ND | 9.6 | 0.53 |
| Benzyl alcohol | ND | 9.6 | 0.47 |
| 1,2-Dichlorobenzene | ND | 9.6 | 0.51 |
| 2-Methylphenol | ND | 9.6 | 1.0 |
| bis(2-Chloroisopropyl) ether | ND | 9.6 | 0.41 |
| 4-Methylphenol | ND | 9.6 | 0.99 |
| N-Nitroso-di-n-propylamine | ND | 9.6 | 0.48 |
| Hexachloroethane | ND | 9.6 | 0.45 |
| Nitrobenzene | ND | 9.6 | 0.46 |
| Isophorone | ND | 9.6 | 0.48 |
| 2-Nitrophenol | ND | 19 | 1.1 |
| 2,4-Dimethylphenol | ND | 9.6 | 0.93 |
| Benzoic acid | ND | 48 | 13 |
| bis(2-Chloroethoxy)methane | ND | 9.6 | 0.54 |
| 2,4-Dichlorophenol | ND | 9.6 | 0.93 |
| 1,2,4-Trichlorobenzene | ND | 9.6 | 0.48 |
| Naphthalene | ND | 9.6 | 0.52 |
| 4-Chloroaniline | ND | 9.6 | 0.57 |
| Hexachlorobutadiene | ND | 9.6 | 0.37 |
| 4-Chloro-3-methylphenol | ND | 9.6 | 0.96 |
| 2-Methylnaphthalene | ND | 9.6 | 0.63 |
| Hexachlorocyclopentadiene | ND | 19 | 1.0 |
| 2,4,6-Trichlorophenol | ND | 9.6 | 0.84 |
| 2,4,5-Trichlorophenol | ND | 9.6 | 0.75 |
| 2-Chloronaphthalene | ND | 9.6 | 0.43 |
| 2-Nitroaniline | ND | 19 | 0.41 |
| Dimethylphthalate | ND | 9.6 | 0.43 |
| Acenaphthylene | ND | 9.6 | 0.37 |
| 2,6-Dinitrotoluene | ND | 9.6 | 0.42 |
| 3-Nitroaniline | ND | 19 | 0.49 |
| Acenaphthene | ND | 9.6 | 0.42 |
| 2,4-Dinitrophenol | ND | 19 | 3.9 |
| 4-Nitrophenol | ND | 19 | 0.57 |
| Dibenzofuran | ND | 9.6 | 0.61 |
| 2,4-Dinitrotoluene | ND | 9.6 | 0.40 |
| Diethylphthalate | ND | 9.6 | 0.42 |
| Fluorene | ND | 9.6 | 0.46 |
| 4-Chlorophenyl-phenylether | ND | 9.6 | 0.44 |
| 4-Nitroaniline | ND | 19 | 0.57 |
| 4,6-Dinitro-2-methylphenol | ND | 19 | 0.62 |
| N-Nitrosodiphenylamine | ND | 9.6 | 0.48 |
| Azobenzene | ND | 9.6 | 0.50 |
| 4-Bromophenyl-phenylether | ND | 9.6 | 0.41 |
| Hexachlorobenzene | ND | 9.6 | 0.43 |
| Pentachlorophenol | ND | 19 | 0.51 |
| Phenanthrene | ND | 9.6 | 0.53 |
| Anthracene | ND | 9.6 | 0.45 |
| Di-n-butylphthalate | ND | 9.6 | 0.50 |

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



7.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8270C |
| Field ID: | MW2.3-081505 | Batch#: | 104931 |
| Lab ID: | 181301-004 | Sampled: | 08/15/05 |
| Matrix: | Water | Received: | 08/17/05 |
| Units: | ug/L | Prepared: | 08/17/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/19/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Fluoranthene | ND | 9.6 | 0.51 |
| Pyrene | ND | 9.6 | 0.53 |
| Butylbenzylphthalate | ND | 9.6 | 0.48 |
| 3,3'-Dichlorobenzidine | ND | 19 | 0.52 |
| Benzo(a)anthracene | ND | 9.6 | 0.51 |
| Chrysene | ND | 9.6 | 0.44 |
| bis(2-Ethylhexyl)phthalate | 1.9 J | 9.6 | 0.52 |
| Di-n-octylphthalate | ND | 9.6 | 0.40 |
| Benzo(b)fluoranthene | ND | 9.6 | 0.36 |
| Benzo(k)fluoranthene | ND | 9.6 | 0.49 |
| Benzo(a)pyrene | ND | 9.6 | 0.42 |
| Indeno(1,2,3-cd)pyrene | ND | 9.6 | 0.51 |
| Dibenz(a,h)anthracene | ND | 9.6 | 0.53 |
| Benzo(g,h,i)perylene | ND | 9.6 | 0.50 |

| Surrogate | %REC | Limits |
|---|---|---|
| 2-Fluorophenol | 73 | 41-120 |
| Phenol-d5 | 64 | 41-120 |
| 2,4,6-Tribromophenol | 77 | 38-120 |
| Nitrobenzene-d5 | 79 | 47-120 |
| 2-Fluorobiphenyl | 82 | 44-120 |
| Terphenyl-d14 | 70 | 16-120 |

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



7.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8270C |
| Field ID: | MW3.1-081605 | Batch#: | 104931 |
| Lab ID: | 181301-005 | Sampled: | 08/16/05 |
| Matrix: | Water | Received: | 08/17/05 |
| Units: | ug/L | Prepared: | 08/17/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/19/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| N-Nitrosodimethylamine | ND | 9.8 | 1.5 |
| Phenol | ND | 9.8 | 1.1 |
| bis(2-Chloroethyl)ether | ND | 9.8 | 0.64 |
| 2-Chlorophenol | ND | 9.8 | 0.43 |
| 1,3-Dichlorobenzene | ND | 9.8 | 0.32 |
| 1,4-Dichlorobenzene | ND | 9.8 | 0.48 |
| Benzyl alcohol | ND | 9.8 | 0.58 |
| 1,2-Dichlorobenzene | ND | 9.8 | 0.44 |
| 2-Methylphenol | ND | 9.8 | 1.1 |
| bis(2-Chloroisopropyl) ether | ND | 9.8 | 0.82 |
| 4-Methylphenol | ND | 9.8 | 0.42 |
| N-Nitroso-di-n-propylamine | ND | 9.8 | 1.4 |
| Hexachloroethane | ND | 9.8 | 0.41 |
| Nitrobenzene | ND | 9.8 | 0.58 |
| Isophorone | ND | 9.8 | 0.38 |
| 2-Nitrophenol | ND | 20 | 1.6 |
| 2,4-Dimethylphenol | ND | 9.8 | 1.2 |
| Benzoic acid | ND | 49 | 20 |
| bis(2-Chloroethoxy)methane | ND | 9.8 | 0.56 |
| 2,4-Dichlorophenol | ND | 9.8 | 0.71 |
| 1,2,4-Trichlorobenzene | ND | 9.8 | 0.31 |
| Naphthalene | ND | 9.8 | 0.26 |
| 4-Chloroaniline | ND | 9.8 | 0.97 |
| Hexachlorobutadiene | ND | 9.8 | 0.36 |
| 4-Chloro-3-methylphenol | ND | 9.8 | 0.73 |
| 2-Methylnaphthalene | ND | 9.8 | 0.28 |
| Hexachlorocyclopentadiene | ND | 20 | 0.77 |
| 2,4,6-Trichlorophenol | ND | 9.8 | 0.76 |
| 2,4,5-Trichlorophenol | ND | 9.8 | 0.95 |
| 2-Chloronaphthalene | ND | 9.8 | 0.37 |
| 2-Nitroaniline | ND | 20 | 0.87 |
| Dimethylphthalate | ND | 9.8 | 0.24 |
| Acenaphthylene | ND | 9.8 | 0.44 |
| 2,6-Dinitrotoluene | ND | 9.8 | 0.76 |
| 3-Nitroaniline | ND | 20 | 0.71 |
| Acenaphthene | ND | 9.8 | 0.32 |
| 2,4-Dinitrophenol | ND | 20 | 5.2 |
| 4-Nitrophenol | ND | 20 | 1.2 |
| Dibenzofuran | ND | 9.8 | 0.43 |
| 2,4-Dinitrotoluene | ND | 9.8 | 0.23 |
| Diethylphthalate | ND | 9.8 | 0.35 |
| Fluorene | ND | 9.8 | 0.18 |
| 4-Chlorophenyl-phenylether | ND | 9.8 | 0.29 |
| 4-Nitroaniline | ND | 20 | 0.65 |
| 4,6-Dinitro-2-methylphenol | ND | 20 | 0.70 |
| N-Nitrosodiphenylamine | ND | 9.8 | 0.37 |
| Azobenzene | ND | 9.8 | 0.77 |
| 4-Bromophenyl-phenylether | ND | 9.8 | 0.35 |
| Hexachlorobenzene | ND | 9.8 | 0.72 |
| Pentachlorophenol | ND | 20 | 0.74 |
| Phenanthrene | ND | 9.8 | 0.41 |
| Anthracene | ND | 9.8 | 0.29 |
| Di-n-butylphthalate | ND | 9.8 | 0.44 |
| Fluoranthene | ND | 9.8 | 0.23 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



8.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8270C |
| Field ID: | MW3.1-081605 | Batch#: | 104931 |
| Lab ID: | 181301-005 | Sampled: | 08/16/05 |
| Matrix: | Water | Received: | 08/17/05 |
| Units: | ug/L | Prepared: | 08/17/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/19/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Pyrene | ND | 9.8 | 0.39 |
| Butylbenzylphthalate | ND | 9.8 | 0.37 |
| 3,3'-Dichlorobenzidine | ND | 20 | 0.43 |
| Benzo(a)anthracene | ND | 9.8 | 0.60 |
| Chrysene | ND | 9.8 | 0.28 |
| bis(2-Ethylhexyl)phthalate | ND | 9.8 | 0.52 |
| Di-n-octylphthalate | ND | 9.8 | 0.18 |
| Benzo(b)fluoranthene | ND | 9.8 | 0.15 |
| Benzo(k)fluoranthene | ND | 9.8 | 0.40 |
| Benzo(a)pyrene | ND | 9.8 | 0.15 |
| Indeno(1,2,3-cd)pyrene | ND | 9.8 | 0.41 |
| Dibenz(a,h)anthracene | ND | 9.8 | 0.24 |
| Benzo(g,h,i)perylene | ND | 9.8 | 0.55 |

| Surrogate | %REC | Limits |
|---|---|---|
| 2-Fluorophenol | 68 | 41-120 |
| Phenol-d5 | 69 | 41-120 |
| 2,4,6-Tribromophenol | 79 | 38-120 |
| Nitrobenzene-d5 | 84 | 47-120 |
| 2-Fluorobiphenyl | 82 | 44-120 |
| Terphenyl-d14 | 68 | 16-120 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



8.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8270C |
| Field ID: | MW3.2-081605 | Batch#: | 104931 |
| Lab ID: | 181301-006 | Sampled: | 08/16/05 |
| Matrix: | Water | Received: | 08/17/05 |
| Units: | ug/L | Prepared: | 08/17/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/19/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| N-Nitrosodimethylamine | ND | 9.7 | 1.5 |
| Phenol | ND | 9.7 | 1.1 |
| bis(2-Chloroethyl)ether | ND | 9.7 | 0.63 |
| 2-Chlorophenol | ND | 9.7 | 0.43 |
| 1,3-Dichlorobenzene | ND | 9.7 | 0.32 |
| 1,4-Dichlorobenzene | ND | 9.7 | 0.47 |
| Benzyl alcohol | ND | 9.7 | 0.57 |
| 1,2-Dichlorobenzene | ND | 9.7 | 0.44 |
| 2-Methylphenol | ND | 9.7 | 1.1 |
| bis(2-Chloroisopropyl) ether | ND | 9.7 | 0.81 |
| 4-Methylphenol | ND | 9.7 | 0.42 |
| N-Nitroso-di-n-propylamine | ND | 9.7 | 1.4 |
| Hexachloroethane | ND | 9.7 | 0.40 |
| Nitrobenzene | ND | 9.7 | 0.57 |
| Isophorone | ND | 9.7 | 0.37 |
| 2-Nitrophenol | ND | 19 | 1.6 |
| 2,4-Dimethylphenol | ND | 9.7 | 1.2 |
| Benzoic acid | ND | 49 | 20 |
| bis(2-Chloroethoxy)methane | ND | 9.7 | 0.56 |
| 2,4-Dichlorophenol | ND | 9.7 | 0.70 |
| 1,2,4-Trichlorobenzene | ND | 9.7 | 0.31 |
| Naphthalene | ND | 9.7 | 0.26 |
| 4-Chloroaniline | ND | 9.7 | 0.96 |
| Hexachlorobutadiene | ND | 9.7 | 0.36 |
| 4-Chloro-3-methylphenol | ND | 9.7 | 0.72 |
| 2-Methylnaphthalene | ND | 9.7 | 0.28 |
| Hexachlorocyclopentadiene | ND | 19 | 0.76 |
| 2,4,6-Trichlorophenol | ND | 9.7 | 0.76 |
| 2,4,5-Trichlorophenol | ND | 9.7 | 0.94 |
| 2-Chloronaphthalene | ND | 9.7 | 0.37 |
| 2-Nitroaniline | ND | 19 | 0.86 |
| Dimethylphthalate | ND | 9.7 | 0.24 |
| Acenaphthylene | ND | 9.7 | 0.44 |
| 2,6-Dinitrotoluene | ND | 9.7 | 0.75 |
| 3-Nitroaniline | ND | 19 | 0.71 |
| Acenaphthene | ND | 9.7 | 0.32 |
| 2,4-Dinitrophenol | ND | 19 | 5.1 |
| 4-Nitrophenol | ND | 19 | 1.2 |
| Dibenzofuran | ND | 9.7 | 0.43 |
| 2,4-Dinitrotoluene | ND | 9.7 | 0.23 |
| Diethylphthalate | ND | 9.7 | 0.35 |
| Fluorene | ND | 9.7 | 0.17 |
| 4-Chlorophenyl-phenylether | ND | 9.7 | 0.29 |
| 4-Nitroaniline | ND | 19 | 0.64 |
| 4,6-Dinitro-2-methylphenol | ND | 19 | 0.69 |
| N-Nitrosodiphenylamine | ND | 9.7 | 0.37 |
| Azobenzene | ND | 9.7 | 0.76 |
| 4-Bromophenyl-phenylether | ND | 9.7 | 0.35 |
| Hexachlorobenzene | ND | 9.7 | 0.71 |
| Pentachlorophenol | ND | 19 | 0.73 |
| Phenanthrene | ND | 9.7 | 0.41 |
| Anthracene | ND | 9.7 | 0.29 |
| Di-n-butylphthalate | ND | 9.7 | 0.44 |

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



9.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8270C |
| Field ID: | MW3.2-081605 | Batch#: | 104931 |
| Lab ID: | 181301-006 | Sampled: | 08/16/05 |
| Matrix: | Water | Received: | 08/17/05 |
| Units: | ug/L | Prepared: | 08/17/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/19/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Fluoranthene | ND | 9.7 | 0.23 |
| Pyrene | ND | 9.7 | 0.39 |
| Butylbenzylphthalate | ND | 9.7 | 0.37 |
| 3,3'-Dichlorobenzidine | ND | 19 | 0.43 |
| Benzo(a)anthracene | ND | 9.7 | 0.59 |
| Chrysene | ND | 9.7 | 0.27 |
| bis(2-Ethylhexyl)phthalate | 0.52 J | 9.7 | 0.52 |
| Di-n-octylphthalate | ND | 9.7 | 0.18 |
| Benzo(b)fluoranthene | ND | 9.7 | 0.15 |
| Benzo(k)fluoranthene | ND | 9.7 | 0.40 |
| Benzo(a)pyrene | ND | 9.7 | 0.15 |
| Indeno(1,2,3-cd)pyrene | ND | 9.7 | 0.41 |
| Dibenz(a,h)anthracene | ND | 9.7 | 0.24 |
| Benzo(g,h,i)perylene | ND | 9.7 | 0.55 |

| Surrogate | %REC | Limits |
|---|---|---|
| 2-Fluorophenol | 66 | 41-120 |
| Phenol-d5 | 67 | 41-120 |
| 2,4,6-Tribromophenol | 77 | 38-120 |
| Nitrobenzene-d5 | 80 | 47-120 |
| 2-Fluorobiphenyl | 80 | 44-120 |
| Terphenyl-d14 | 82 | 16-120 |

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



9.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8270C |
| Field ID: | MW-DUP-1-081605 | Batch#: | 104931 |
| Lab ID: | 181301-007 | Sampled: | 08/16/05 |
| Matrix: | Water | Received: | 08/17/05 |
| Units: | ug/L | Prepared: | 08/17/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/19/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| N-Nitrosodimethylamine | ND | 9.6 | 1.5 |
| Phenol | ND | 9.6 | 1.1 |
| bis(2-Chloroethyl)ether | ND | 9.6 | 0.62 |
| 2-Chlorophenol | ND | 9.6 | 0.42 |
| 1,3-Dichlorobenzene | ND | 9.6 | 0.32 |
| 1,4-Dichlorobenzene | ND | 9.6 | 0.47 |
| Benzyl alcohol | ND | 9.6 | 0.56 |
| 1,2-Dichlorobenzene | ND | 9.6 | 0.43 |
| 2-Methylphenol | ND | 9.6 | 1.1 |
| bis(2-Chloroisopropyl) ether | ND | 9.6 | 0.80 |
| 4-Methylphenol | ND | 9.6 | 0.41 |
| N-Nitroso-di-n-propylamine | ND | 9.6 | 1.4 |
| Hexachloroethane | ND | 9.6 | 0.40 |
| Nitrobenzene | ND | 9.6 | 0.57 |
| Isophorone | ND | 9.6 | 0.37 |
| 2-Nitrophenol | ND | 19 | 1.6 |
| 2,4-Dimethylphenol | ND | 9.6 | 1.1 |
| Benzoic acid | ND | 48 | 20 |
| bis(2-Chloroethoxy)methane | ND | 9.6 | 0.55 |
| 2,4-Dichlorophenol | ND | 9.6 | 0.69 |
| 1,2,4-Trichlorobenzene | ND | 9.6 | 0.31 |
| Naphthalene | ND | 9.6 | 0.26 |
| 4-Chloroaniline | ND | 9.6 | 0.95 |
| Hexachlorobutadiene | ND | 9.6 | 0.35 |
| 4-Chloro-3-methylphenol | ND | 9.6 | 0.72 |
| 2-Methylnaphthalene | ND | 9.6 | 0.28 |
| Hexachlorocyclopentadiene | ND | 19 | 0.76 |
| 2,4,6-Trichlorophenol | ND | 9.6 | 0.75 |
| 2,4,5-Trichlorophenol | ND | 9.6 | 0.93 |
| 2-Chloronaphthalene | ND | 9.6 | 0.36 |
| 2-Nitroaniline | ND | 19 | 0.85 |
| Dimethylphthalate | ND | 9.6 | 0.24 |
| Acenaphthylene | ND | 9.6 | 0.43 |
| 2,6-Dinitrotoluene | ND | 9.6 | 0.75 |
| 3-Nitroaniline | ND | 19 | 0.70 |
| Acenaphthene | ND | 9.6 | 0.32 |
| 2,4-Dinitrophenol | ND | 19 | 5.1 |
| 4-Nitrophenol | ND | 19 | 1.2 |
| Dibenzofuran | ND | 9.6 | 0.42 |
| 2,4-Dinitrotoluene | ND | 9.6 | 0.23 |
| Diethylphthalate | ND | 9.6 | 0.34 |
| Fluorene | ND | 9.6 | 0.17 |
| 4-Chlorophenyl-phenylether | ND | 9.6 | 0.29 |
| 4-Nitroaniline | ND | 19 | 0.64 |
| 4,6-Dinitro-2-methylphenol | ND | 19 | 0.68 |
| N-Nitrosodiphenylamine | ND | 9.6 | 0.37 |
| Azobenzene | ND | 9.6 | 0.76 |
| 4-Bromophenyl-phenylether | ND | 9.6 | 0.35 |
| Hexachlorobenzene | ND | 9.6 | 0.71 |
| Pentachlorophenol | ND | 19 | 0.72 |
| Phenanthrene | ND | 9.6 | 0.41 |
| Anthracene | ND | 9.6 | 0.29 |
| Di-n-butylphthalate | ND | 9.6 | 0.43 |
| Fluoranthene | ND | 9.6 | 0.23 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



10.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8270C |
| Field ID: | MW-DUP-1-081605 | Batch#: | 104931 |
| Lab ID: | 181301-007 | Sampled: | 08/16/05 |
| Matrix: | Water | Received: | 08/17/05 |
| Units: | ug/L | Prepared: | 08/17/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/19/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Pyrene | ND | 9.6 | 0.38 |
| Butylbenzylphthalate | ND | 9.6 | 0.36 |
| 3,3'-Dichlorobenzidine | ND | 19 | 0.43 |
| Benzo(a)anthracene | ND | 9.6 | 0.59 |
| Chrysene | ND | 9.6 | 0.27 |
| bis(2-Ethylhexyl)phthalate | ND | 9.6 | 0.51 |
| Di-n-octylphthalate | ND | 9.6 | 0.17 |
| Benzo(b)fluoranthene | ND | 9.6 | 0.15 |
| Benzo(k)fluoranthene | ND | 9.6 | 0.40 |
| Benzo(a)pyrene | ND | 9.6 | 0.14 |
| Indeno(1,2,3-cd)pyrene | ND | 9.6 | 0.40 |
| Dibenz(a,h)anthracene | ND | 9.6 | 0.24 |
| Benzo(g,h,i)perylene | ND | 9.6 | 0.54 |

| Surrogate | %REC | Limits |
|---|---|---|
| 2-Fluorophenol | 69 | 41-120 |
| Phenol-d5 | 67 | 41-120 |
| 2,4,6-Tribromophenol | 75 | 38-120 |
| Nitrobenzene-d5 | 81 | 47-120 |
| 2-Fluorobiphenyl | 79 | 44-120 |
| Terphenyl-d14 | 83 | 16-120 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



10.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8270C |
| Field ID: | MW3.3-081605 | Batch#: | 104931 |
| Lab ID: | 181301-008 | Sampled: | 08/16/05 |
| Matrix: | Water | Received: | 08/17/05 |
| Units: | ug/L | Prepared: | 08/17/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/19/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| N-Nitrosodimethylamine | ND | 9.6 | 1.5 |
| Phenol | ND | 9.6 | 1.1 |
| bis(2-Chloroethyl)ether | ND | 9.6 | 0.62 |
| 2-Chlorophenol | ND | 9.6 | 0.42 |
| 1,3-Dichlorobenzene | ND | 9.6 | 0.32 |
| 1,4-Dichlorobenzene | ND | 9.6 | 0.47 |
| Benzyl alcohol | ND | 9.6 | 0.56 |
| 1,2-Dichlorobenzene | ND | 9.6 | 0.43 |
| 2-Methylphenol | ND | 9.6 | 1.1 |
| bis(2-Chloroisopropyl) ether | ND | 9.6 | 0.80 |
| 4-Methylphenol | ND | 9.6 | 0.41 |
| N-Nitroso-di-n-propylamine | ND | 9.6 | 1.4 |
| Hexachloroethane | ND | 9.6 | 0.40 |
| Nitrobenzene | ND | 9.6 | 0.57 |
| Isophorone | ND | 9.6 | 0.37 |
| 2-Nitrophenol | ND | 19 | 1.6 |
| 2,4-Dimethylphenol | ND | 9.6 | 1.1 |
| Benzoic acid | ND | 48 | 20 |
| bis(2-Chloroethoxy)methane | ND | 9.6 | 0.55 |
| 2,4-Dichlorophenol | ND | 9.6 | 0.69 |
| 1,2,4-Trichlorobenzene | ND | 9.6 | 0.31 |
| Naphthalene | ND | 9.6 | 0.26 |
| 4-Chloroaniline | ND | 9.6 | 0.95 |
| Hexachlorobutadiene | ND | 9.6 | 0.35 |
| 4-Chloro-3-methylphenol | ND | 9.6 | 0.72 |
| 2-Methylnaphthalene | ND | 9.6 | 0.28 |
| Hexachlorocyclopentadiene | ND | 19 | 0.76 |
| 2,4,6-Trichlorophenol | ND | 9.6 | 0.75 |
| 2,4,5-Trichlorophenol | ND | 9.6 | 0.93 |
| 2-Chloronaphthalene | ND | 9.6 | 0.36 |
| 2-Nitroaniline | ND | 19 | 0.85 |
| Dimethylphthalate | ND | 9.6 | 0.24 |
| Acenaphthylene | ND | 9.6 | 0.43 |
| 2,6-Dinitrotoluene | ND | 9.6 | 0.75 |
| 3-Nitroaniline | ND | 19 | 0.70 |
| Acenaphthene | ND | 9.6 | 0.32 |
| 2,4-Dinitrophenol | ND | 19 | 5.1 |
| 4-Nitrophenol | ND | 19 | 1.2 |
| Dibenzofuran | ND | 9.6 | 0.42 |
| 2,4-Dinitrotoluene | ND | 9.6 | 0.23 |
| Diethylphthalate | ND | 9.6 | 0.34 |
| Fluorene | ND | 9.6 | 0.17 |
| 4-Chlorophenyl-phenylether | ND | 9.6 | 0.29 |
| 4-Nitroaniline | ND | 19 | 0.64 |
| 4,6-Dinitro-2-methylphenol | ND | 19 | 0.68 |
| N-Nitrosodiphenylamine | ND | 9.6 | 0.37 |
| Azobenzene | ND | 9.6 | 0.76 |
| 4-Bromophenyl-phenylether | ND | 9.6 | 0.35 |
| Hexachlorobenzene | ND | 9.6 | 0.71 |
| Pentachlorophenol | ND | 19 | 0.72 |
| Phenanthrene | ND | 9.6 | 0.41 |
| Anthracene | ND | 9.6 | 0.29 |
| Di-n-butylphthalate | ND | 9.6 | 0.43 |
| Fluoranthene | ND | 9.6 | 0.23 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



11.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8270C |
| Field ID: | MW3.3-081605 | Batch#: | 104931 |
| Lab ID: | 181301-008 | Sampled: | 08/16/05 |
| Matrix: | Water | Received: | 08/17/05 |
| Units: | ug/L | Prepared: | 08/17/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/19/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Pyrene | ND | 9.6 | 0.38 |
| Butylbenzylphthalate | ND | 9.6 | 0.36 |
| 3,3'-Dichlorobenzidine | ND | 19 | 0.43 |
| Benzo(a)anthracene | ND | 9.6 | 0.59 |
| Chrysene | ND | 9.6 | 0.27 |
| bis(2-Ethylhexyl)phthalate | ND | 9.6 | 0.51 |
| Di-n-octylphthalate | ND | 9.6 | 0.17 |
| Benzo(b)fluoranthene | ND | 9.6 | 0.15 |
| Benzo(k)fluoranthene | ND | 9.6 | 0.40 |
| Benzo(a)pyrene | ND | 9.6 | 0.14 |
| Indeno(1,2,3-cd)pyrene | ND | 9.6 | 0.40 |
| Dibenz(a,h)anthracene | ND | 9.6 | 0.24 |
| Benzo(g,h,i)perylene | ND | 9.6 | 0.54 |

| Surrogate | %REC | Limits |
|---|---|---|
| 2-Fluorophenol | 61 | 41-120 |
| Phenol-d5 | 60 | 41-120 |
| 2,4,6-Tribromophenol | 61 | 38-120 |
| Nitrobenzene-d5 | 72 | 47-120 |
| 2-Fluorobiphenyl | 72 | 44-120 |
| Terphenyl-d14 | 75 | 16-120 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



11.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8270C |
| Field ID: | MW3.4-081605 | Batch#: | 104931 |
| Lab ID: | 181301-009 | Sampled: | 08/16/05 |
| Matrix: | Water | Received: | 08/17/05 |
| Units: | ug/L | Prepared: | 08/17/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/18/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| N-Nitrosodimethylamine | ND | 9.6 | 0.92 |
| Phenol | 0.89 J | 9.6 | 0.40 |
| bis(2-Chloroethyl)ether | ND | 9.6 | 0.46 |
| 2-Chlorophenol | ND | 9.6 | 0.64 |
| 1,3-Dichlorobenzene | ND | 9.6 | 0.66 |
| 1,4-Dichlorobenzene | ND | 9.6 | 0.54 |
| Benzyl alcohol | ND | 9.6 | 0.52 |
| 1,2-Dichlorobenzene | ND | 9.6 | 0.36 |
| 2-Methylphenol | ND | 9.6 | 0.99 |
| bis(2-Chloroisopropyl) ether | ND | 9.6 | 0.52 |
| 4-Methylphenol | ND | 9.6 | 0.56 |
| N-Nitroso-di-n-propylamine | ND | 9.6 | 0.62 |
| Hexachloroethane | ND | 9.6 | 0.75 |
| Nitrobenzene | ND | 9.6 | 0.26 |
| Isophorone | ND | 9.6 | 0.47 |
| 2-Nitrophenol | ND | 19 | 0.88 |
| 2,4-Dimethylphenol | ND | 9.6 | 0.99 |
| Benzoic acid | ND | 48 | 0.13 |
| bis(2-Chloroethoxy)methane | ND | 9.6 | 0.51 |
| 2,4-Dichlorophenol | ND | 9.6 | 0.40 |
| 1,2,4-Trichlorobenzene | ND | 9.6 | 0.57 |
| Naphthalene | ND | 9.6 | 0.30 |
| 4-Chloroaniline | ND | 9.6 | 2.3 |
| Hexachlorobutadiene | ND | 9.6 | 0.74 |
| 4-Chloro-3-methylphenol | ND | 9.6 | 0.58 |
| 2-Methylnaphthalene | ND | 9.6 | 0.64 |
| Hexachlorocyclopentadiene | ND | 19 | 0.31 |
| 2,4,6-Trichlorophenol | ND | 9.6 | 1.0 |
| 2,4,5-Trichlorophenol | ND | 9.6 | 1.1 |
| 2-Chloronaphthalene | ND | 9.6 | 0.36 |
| 2-Nitroaniline | ND | 19 | 0.75 |
| Dimethylphthalate | ND | 9.6 | 0.41 |
| Acenaphthylene | ND | 9.6 | 0.33 |
| 2,6-Dinitrotoluene | ND | 9.6 | 0.43 |
| 3-Nitroaniline | ND | 19 | 0.38 |
| Acenaphthene | ND | 9.6 | 0.33 |
| 2,4-Dinitrophenol | ND | 19 | 0.43 |
| 4-Nitrophenol | ND | 19 | 1.8 |
| Dibenzofuran | ND | 9.6 | 1.1 |
| 2,4-Dinitrotoluene | ND | 9.6 | 0.29 |
| Diethylphthalate | ND | 9.6 | 0.32 |
| Fluorene | ND | 9.6 | 0.93 |
| 4-Chlorophenyl-phenylether | ND | 9.6 | 0.76 |
| 4-Nitroaniline | ND | 19 | 0.97 |
| 4,6-Dinitro-2-methylphenol | ND | 19 | 1.1 |
| N-Nitrosodiphenylamine | ND | 9.6 | 0.29 |
| Azobenzene | ND | 9.6 | 0.58 |
| 4-Bromophenyl-phenylether | ND | 9.6 | 0.47 |
| Hexachlorobenzene | ND | 9.6 | 0.55 |
| Pentachlorophenol | ND | 19 | 0.45 |
| Phenanthrene | ND | 9.6 | 0.56 |
| Anthracene | ND | 9.6 | 0.26 |
| Di-n-butylphthalate | ND | 9.6 | 0.37 |

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



12.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8270C |
| Field ID: | MW3.4-081605 | Batch#: | 104931 |
| Lab ID: | 181301-009 | Sampled: | 08/16/05 |
| Matrix: | Water | Received: | 08/17/05 |
| Units: | ug/L | Prepared: | 08/17/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/18/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Fluoranthene | ND | 9.6 | 0.45 |
| Pyrene | ND | 9.6 | 0.53 |
| Butylbenzylphthalate | ND | 9.6 | 0.49 |
| 3,3'-Dichlorobenzidine | ND | 19 | 0.43 |
| Benzo(a)anthracene | ND | 9.6 | 0.61 |
| Chrysene | ND | 9.6 | 0.66 |
| bis(2-Ethylhexyl)phthalate | ND | 9.6 | 1.1 |
| Di-n-octylphthalate | ND | 9.6 | 0.13 |
| Benzo(b)fluoranthene | ND | 9.6 | 0.43 |
| Benzo(k)fluoranthene | ND | 9.6 | 0.50 |
| Benzo(a)pyrene | ND | 9.6 | 0.50 |
| Indeno(1,2,3-cd)pyrene | ND | 9.6 | 0.31 |
| Dibenz(a,h)anthracene | ND | 9.6 | 0.28 |
| Benzo(g,h,i)perylene | ND | 9.6 | 0.27 |

| Surrogate | %REC | Limits |
|---|---|---|
| 2-Fluorophenol | 72 | 41-120 |
| Phenol-d5 | 70 | 41-120 |
| 2,4,6-Tribromophenol | 68 | 38-120 |
| Nitrobenzene-d5 | 76 | 47-120 |
| 2-Fluorobiphenyl | 69 | 44-120 |
| Terphenyl-d14 | 54 | 16-120 |

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



12.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8270C |
| Field ID: | MW3.5-081605 | Batch#: | 104931 |
| Lab ID: | 181301-010 | Sampled: | 08/16/05 |
| Matrix: | Water | Received: | 08/17/05 |
| Units: | ug/L | Prepared: | 08/17/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/18/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| N-Nitrosodimethylamine | ND | 9.6 | 0.92 |
| Phenol | ND | 9.6 | 0.40 |
| bis(2-Chloroethyl)ether | ND | 9.6 | 0.46 |
| 2-Chlorophenol | ND | 9.6 | 0.64 |
| 1,3-Dichlorobenzene | ND | 9.6 | 0.66 |
| 1,4-Dichlorobenzene | ND | 9.6 | 0.54 |
| Benzyl alcohol | ND | 9.6 | 0.52 |
| 1,2-Dichlorobenzene | ND | 9.6 | 0.36 |
| 2-Methylphenol | ND | 9.6 | 0.99 |
| bis(2-Chloroisopropyl) ether | ND | 9.6 | 0.52 |
| 4-Methylphenol | ND | 9.6 | 0.56 |
| N-Nitroso-di-n-propylamine | ND | 9.6 | 0.62 |
| Hexachloroethane | ND | 9.6 | 0.75 |
| Nitrobenzene | ND | 9.6 | 0.26 |
| Isophorone | ND | 9.6 | 0.47 |
| 2-Nitrophenol | ND | 19 | 0.88 |
| 2,4-Dimethylphenol | ND | 9.6 | 0.99 |
| Benzoic acid | ND | 48 | 0.13 |
| bis(2-Chloroethoxy)methane | ND | 9.6 | 0.51 |
| 2,4-Dichlorophenol | ND | 9.6 | 0.40 |
| 1,2,4-Trichlorobenzene | ND | 9.6 | 0.57 |
| Naphthalene | ND | 9.6 | 0.30 |
| 4-Chloroaniline | ND | 9.6 | 2.3 |
| Hexachlorobutadiene | ND | 9.6 | 0.74 |
| 4-Chloro-3-methylphenol | ND | 9.6 | 0.58 |
| 2-Methylnaphthalene | ND | 9.6 | 0.64 |
| Hexachlorocyclopentadiene | ND | 19 | 0.31 |
| 2,4,6-Trichlorophenol | ND | 9.6 | 1.0 |
| 2,4,5-Trichlorophenol | ND | 9.6 | 1.1 |
| 2-Chloronaphthalene | ND | 9.6 | 0.36 |
| 2-Nitroaniline | ND | 19 | 0.75 |
| Dimethylphthalate | ND | 9.6 | 0.41 |
| Acenaphthylene | ND | 9.6 | 0.33 |
| 2,6-Dinitrotoluene | ND | 9.6 | 0.43 |
| 3-Nitroaniline | ND | 19 | 0.38 |
| Acenaphthene | ND | 9.6 | 0.33 |
| 2,4-Dinitrophenol | ND | 19 | 0.43 |
| 4-Nitrophenol | ND | 19 | 1.8 |
| Dibenzofuran | ND | 9.6 | 1.1 |
| 2,4-Dinitrotoluene | ND | 9.6 | 0.29 |
| Diethylphthalate | ND | 9.6 | 0.32 |
| Fluorene | ND | 9.6 | 0.93 |
| 4-Chlorophenyl-phenylether | ND | 9.6 | 0.76 |
| 4-Nitroaniline | ND | 19 | 0.97 |
| 4,6-Dinitro-2-methylphenol | ND | 19 | 1.1 |
| N-Nitrosodiphenylamine | ND | 9.6 | 0.29 |
| Azobenzene | ND | 9.6 | 0.58 |
| 4-Bromophenyl-phenylether | ND | 9.6 | 0.47 |
| Hexachlorobenzene | ND | 9.6 | 0.55 |
| Pentachlorophenol | ND | 19 | 0.45 |
| Phenanthrene | ND | 9.6 | 0.56 |
| Anthracene | ND | 9.6 | 0.26 |
| Di-n-butylphthalate | ND | 9.6 | 0.37 |
| Fluoranthene | ND | 9.6 | 0.45 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



13.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8270C |
| Field ID: | MW3.5-081605 | Batch#: | 104931 |
| Lab ID: | 181301-010 | Sampled: | 08/16/05 |
| Matrix: | Water | Received: | 08/17/05 |
| Units: | ug/L | Prepared: | 08/17/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/18/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Pyrene | ND | 9.6 | 0.53 |
| Butylbenzylphthalate | ND | 9.6 | 0.49 |
| 3,3'-Dichlorobenzidine | ND | 19 | 0.43 |
| Benzo(a)anthracene | ND | 9.6 | 0.61 |
| Chrysene | ND | 9.6 | 0.66 |
| bis(2-Ethylhexyl)phthalate | ND | 9.6 | 1.1 |
| Di-n-octylphthalate | ND | 9.6 | 0.13 |
| Benzo(b)fluoranthene | ND | 9.6 | 0.43 |
| Benzo(k)fluoranthene | ND | 9.6 | 0.50 |
| Benzo(a)pyrene | ND | 9.6 | 0.50 |
| Indeno(1,2,3-cd)pyrene | ND | 9.6 | 0.31 |
| Dibenz(a,h)anthracene | ND | 9.6 | 0.28 |
| Benzo(g,h,i)perylene | ND | 9.6 | 0.27 |

| Surrogate | %REC | Limits |
|---|---|---|
| 2-Fluorophenol | 72 | 41-120 |
| Phenol-d5 | 69 | 41-120 |
| 2,4,6-Tribromophenol | 68 | 38-120 |
| Nitrobenzene-d5 | 76 | 47-120 |
| 2-Fluorobiphenyl | 70 | 44-120 |
| Terphenyl-d14 | 63 | 16-120 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



13.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

## Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8270C |
| Type: | BLANK | Diln Fac: | 1.000 |
| Lab ID: | QC305435 | Batch#: | 104931 |
| Matrix: | Water | Prepared: | 08/17/05 |
| Units: | ug/L | Analyzed: | 08/18/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| N-Nitrosodimethylamine | ND | 10 | 0.35 |
| Phenol | ND | 10 | 0.90 |
| bis(2-Chloroethyl)ether | ND | 10 | 0.54 |
| 2-Chlorophenol | ND | 10 | 0.89 |
| 1,3-Dichlorobenzene | ND | 10 | 0.55 |
| 1,4-Dichlorobenzene | ND | 10 | 0.55 |
| Benzyl alcohol | ND | 10 | 0.49 |
| 1,2-Dichlorobenzene | ND | 10 | 0.53 |
| 2-Methylphenol | ND | 10 | 1.1 |
| bis(2-Chloroisopropyl) ether | ND | 10 | 0.43 |
| 4-Methylphenol | ND | 10 | 1.0 |
| N-Nitroso-di-n-propylamine | ND | 10 | 0.50 |
| Hexachloroethane | ND | 10 | 0.46 |
| Nitrobenzene | ND | 10 | 0.48 |
| Isophorone | ND | 10 | 0.50 |
| 2-Nitrophenol | ND | 20 | 1.1 |
| 2,4-Dimethylphenol | ND | 10 | 0.97 |
| Benzoic acid | ND | 50 | 13 |
| bis(2-Chloroethoxy)methane | ND | 10 | 0.56 |
| 2,4-Dichlorophenol | ND | 10 | 0.96 |
| 1,2,4-Trichlorobenzene | ND | 10 | 0.50 |
| Naphthalene | ND | 10 | 0.54 |
| 4-Chloroaniline | ND | 10 | 0.59 |
| Hexachlorobutadiene | ND | 10 | 0.39 |
| 4-Chloro-3-methylphenol | ND | 10 | 1.0 |
| 2-Methylnaphthalene | ND | 10 | 0.65 |
| Hexachlorocyclopentadiene | ND | 20 | 1.0 |
| 2,4,6-Trichlorophenol | ND | 10 | 0.88 |
| 2,4,5-Trichlorophenol | ND | 10 | 0.78 |
| 2-Chloronaphthalene | ND | 10 | 0.45 |
| 2-Nitroaniline | ND | 20 | 0.43 |
| Dimethylphthalate | ND | 10 | 0.45 |
| Acenaphthylene | ND | 10 | 0.38 |
| 2,6-Dinitrotoluene | ND | 10 | 0.44 |
| 3-Nitroaniline | ND | 20 | 0.50 |
| Acenaphthene | ND | 10 | 0.44 |
| 2,4-Dinitrophenol | ND | 20 | 4.0 |
| 4-Nitrophenol | ND | 20 | 0.59 |
| Dibenzofuran | ND | 10 | 0.64 |
| 2,4-Dinitrotoluene | ND | 10 | 0.42 |
| Diethylphthalate | ND | 10 | 0.44 |
| Fluorene | ND | 10 | 0.48 |
| 4-Chlorophenyl-phenylether | ND | 10 | 0.46 |
| 4-Nitroaniline | ND | 20 | 0.60 |
| 4,6-Dinitro-2-methylphenol | ND | 20 | 0.64 |
| N-Nitrosodiphenylamine | ND | 10 | 0.50 |
| Azobenzene | ND | 10 | 0.52 |
| 4-Bromophenyl-phenylether | ND | 10 | 0.42 |
| Hexachlorobenzene | ND | 10 | 0.45 |
| Pentachlorophenol | ND | 20 | 0.54 |
| Phenanthrene | ND | 10 | 0.55 |
| Anthracene | ND | 10 | 0.47 |
| Di-n-butylphthalate | ND | 10 | 0.52 |
| Fluoranthene | ND | 10 | 0.53 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



14.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

## Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8270C |
| Type: | BLANK | Diln Fac: | 1.000 |
| Lab ID: | QC305435 | Batch#: | 104931 |
| Matrix: | Water | Prepared: | 08/17/05 |
| Units: | ug/L | Analyzed: | 08/18/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Pyrene | ND | 10 | 0.55 |
| Butylbenzylphthalate | ND | 10 | 0.50 |
| 3,3'-Dichlorobenzidine | ND | 20 | 0.54 |
| Benzo(a)anthracene | ND | 10 | 0.53 |
| Chrysene | ND | 10 | 0.46 |
| bis(2-Ethylhexyl)phthalate | ND | 10 | 0.54 |
| Di-n-octylphthalate | ND | 10 | 0.42 |
| Benzo(b)fluoranthene | ND | 10 | 0.38 |
| Benzo(k)fluoranthene | ND | 10 | 0.51 |
| Benzo(a)pyrene | ND | 10 | 0.43 |
| Indeno(1,2,3-cd)pyrene | ND | 10 | 0.53 |
| Dibenz(a,h)anthracene | ND | 10 | 0.55 |
| Benzo(g,h,i)perylene | ND | 10 | 0.52 |

| Surrogate | %REC | Limits |
|---|---|---|
| 2-Fluorophenol | 58 | 41-120 |
| Phenol-d5 | 57 | 41-120 |
| 2,4,6-Tribromophenol | 56 | 38-120 |
| Nitrobenzene-d5 | 66 | 47-120 |
| 2-Fluorobiphenyl | 66 | 44-120 |
| Terphenyl-d14 | 59 | 16-120 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



14.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

## Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8270C |
| Type: | LCS | Diln Fac: | 1.000 |
| Lab ID: | QC305436 | Batch#: | 104931 |
| Matrix: | Water | Prepared: | 08/17/05 |
| Units: | ug/L | Analyzed: | 08/19/05 |

| Analyte | Spiked | Result | %REC | Limits |
|---|---|---|---|---|
| Phenol | 100.0 | 78.45 | 78 | 43-120 |
| 2-Chlorophenol | 100.0 | 82.52 | 83 | 51-120 |
| 1,4-Dichlorobenzene | 50.00 | 20.83 | 42 | 36-120 |
| N-Nitroso-di-n-propylamine | 50.00 | 39.73 | 79 | 45-120 |
| 1,2,4-Trichlorobenzene | 50.00 | 29.63 | 59 | 38-120 |
| 4-Chloro-3-methylphenol | 100.0 | 86.02 | 86 | 48-120 |
| Acenaphthene | 50.00 | 42.02 | 84 | 43-120 |
| 4-Nitrophenol | 100.0 | 88.18 | 88 | 43-120 |
| 2,4-Dinitrotoluene | 50.00 | 42.29 | 85 | 46-120 |
| Pentachlorophenol | 100.0 | 83.26 | 83 | 35-120 |
| Pyrene | 50.00 | 44.35 | 89 | 38-120 |

| Surrogate | %REC | Limits |
|---|---|---|
| 2-Fluorophenol | 82 | 41-120 |
| Phenol-d5 | 76 | 41-120 |
| 2,4,6-Tribromophenol | 86 | 38-120 |
| Nitrobenzene-d5 | 91 | 47-120 |
| 2-Fluorobiphenyl | 89 | 44-120 |
| Terphenyl-d14 | 82 | 16-120 |

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

## Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8270C |
| Field ID: | MW2.1-081505 | Batch#: | 104931 |
| MSS Lab ID: | 181301-002 | Sampled: | 08/15/05 |
| Matrix: | Water | Received: | 08/17/05 |
| Units: | ug/L | Prepared: | 08/17/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/18/05 |

Type: MS Lab ID: QC305437

| Analyte | MSS Result | Spiked | Result | %REC | Limits |
|---|---|---|---|---|---|
| Phenol | <0.8665 | 99.01 | 62.68 | 63 | 44-120 |
| 2-Chlorophenol | <0.8567 | 99.01 | 68.31 | 69 | 51-120 |
| 1,4-Dichlorobenzene | <0.5253 | 49.50 | 20.71 | 42 | 39-120 |
| N-Nitroso-di-n-propylamine | <0.4826 | 49.50 | 35.43 | 72 | 44-120 |
| 1,2,4-Trichlorobenzene | <0.4817 | 49.50 | 30.20 | 61 | 41-120 |
| 4-Chloro-3-methylphenol | <0.9597 | 99.01 | 76.09 | 77 | 50-120 |
| Acenaphthene | <0.4186 | 49.50 | 35.83 | 72 | 47-120 |
| 4-Nitrophenol | <0.5659 | 99.01 | 85.01 | 86 | 38-120 |
| 2,4-Dinitrotoluene | <0.4045 | 49.50 | 35.90 | 73 | 33-120 |
| Pentachlorophenol | <0.5146 | 99.01 | 82.91 | 84 | 25-148 |
| Pyrene | <0.5316 | 49.50 | 37.95 | 77 | 46-120 |

| Surrogate | %REC | Limits |
|---|---|---|
| 2-Fluorophenol | 70 | 41-120 |
| Phenol-d5 | 66 | 41-120 |
| 2,4,6-Tribromophenol | 70 | 38-120 |
| Nitrobenzene-d5 | 79 | 47-120 |
| 2-Fluorobiphenyl | 77 | 44-120 |
| Terphenyl-d14 | 57 | 16-120 |

Type: MSD Lab ID: QC305438

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|
| Phenol | 96.15 | 60.97 | 63 | 44-120 | 0 | 28 |
| 2-Chlorophenol | 96.15 | 66.59 | 69 | 51-120 | 0 | 24 |
| 1,4-Dichlorobenzene | 48.08 | 23.29 | 48 | 39-120 | 15 | 29 |
| N-Nitroso-di-n-propylamine | 48.08 | 33.83 | 70 | 44-120 | 2 | 25 |
| 1,2,4-Trichlorobenzene | 48.08 | 29.84 | 62 | 41-120 | 2 | 24 |
| 4-Chloro-3-methylphenol | 96.15 | 72.42 | 75 | 50-120 | 2 | 23 |
| Acenaphthene | 48.08 | 34.11 | 71 | 47-120 | 2 | 23 |
| 4-Nitrophenol | 96.15 | 80.61 | 84 | 38-120 | 2 | 27 |
| 2,4-Dinitrotoluene | 48.08 | 33.79 | 70 | 33-120 | 3 | 22 |
| Pentachlorophenol | 96.15 | 75.72 | 79 | 25-148 | 6 | 25 |
| Pyrene | 48.08 | 37.13 | 77 | 46-120 | 1 | 23 |

| Surrogate | %REC | Limits |
|---|---|---|
| 2-Fluorophenol | 72 | 41-120 |
| Phenol-d5 | 66 | 41-120 |
| 2,4,6-Tribromophenol | 69 | 38-120 |
| Nitrobenzene-d5 | 78 | 47-120 |
| 2-Fluorobiphenyl | 75 | 44-120 |
| Terphenyl-d14 | 61 | 16-120 |

RPD= Relative Percent Difference



16.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Polychlorinated Biphenyl Congeners

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8082 |
| Field ID: | MW2.1-081505 | Batch#: | 105026 |
| Lab ID: | 181301-002 | Sampled: | 08/15/05 |
| Matrix: | Water | Received: | 08/17/05 |
| Units: | ug/L | Prepared: | 08/20/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/22/05 |

Cleanup Method: EPA 3665A

| Analyte | Result | RL | MDL |
|---|---|---|---|
| BZ# 8 | ND | 0.048 | 0.012 |
| BZ# 18 | ND | 0.048 | 0.024 |
| BZ# 28 | ND | 0.048 | 0.020 |
| BZ# 52 | ND | 0.048 | 0.019 |
| BZ# 44 | ND | 0.048 | 0.0097 |
| BZ# 66 | ND | 0.048 | 0.0098 |
| BZ# 101 | ND | 0.048 | 0.013 |
| BZ# 81 | ND | 0.048 | 0.019 |
| BZ# 77 | ND | 0.048 | 0.010 |
| BZ# 123 | ND | 0.048 | 0.011 |
| BZ# 118 | ND | 0.048 | 0.010 |
| BZ# 114 | ND | 0.048 | 0.010 |
| BZ# 153 | ND | 0.048 | 0.014 |
| BZ# 105 | ND | 0.048 | 0.012 |
| BZ# 138 | ND | 0.048 | 0.011 |
| BZ# 187 | ND | 0.048 | 0.0099 |
| BZ# 126 | ND | 0.048 | 0.012 |
| BZ# 128 | ND | 0.048 | 0.011 |
| BZ# 167 | ND | 0.048 | 0.010 |
| BZ# 156 | ND | 0.048 | 0.012 |
| BZ# 157 | ND | 0.048 | 0.011 |
| BZ# 180 | ND | 0.048 | 0.011 |
| BZ# 170 | ND | 0.048 | 0.014 |
| BZ# 169 | ND | 0.048 | 0.013 |
| BZ# 189 | ND | 0.048 | 0.014 |
| BZ# 195 | ND | 0.048 | 0.013 |
| BZ# 206 | ND | 0.048 | 0.012 |
| BZ# 209 | ND | 0.048 | 0.015 |

| Surrogate | %REC | Limits |
|---|---|---|
| TCMX | 75 | 37-140 |
| BZ# 205 | 89 | 37-140 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



17.1

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Polychlorinated Biphenyl Congeners

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8082 |
| Field ID: | MW2.2-081505 | Batch#: | 105026 |
| Lab ID: | 181301-003 | Sampled: | 08/15/05 |
| Matrix: | Water | Received: | 08/17/05 |
| Units: | ug/L | Prepared: | 08/20/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/22/05 |

Cleanup Method: EPA 3665A

| Analyte | Result | RL | MDL |
|---|---|---|---|
| BZ# 8 | ND | 0.048 | 0.012 |
| BZ# 18 | ND | 0.048 | 0.024 |
| BZ# 28 | ND | 0.048 | 0.020 |
| BZ# 52 | ND | 0.048 | 0.019 |
| BZ# 44 | ND | 0.048 | 0.0097 |
| BZ# 66 | ND | 0.048 | 0.0098 |
| BZ# 101 | ND | 0.048 | 0.013 |
| BZ# 81 | ND | 0.048 | 0.019 |
| BZ# 77 | ND | 0.048 | 0.010 |
| BZ# 123 | ND | 0.048 | 0.011 |
| BZ# 118 | ND | 0.048 | 0.010 |
| BZ# 114 | ND | 0.048 | 0.010 |
| BZ# 153 | ND | 0.048 | 0.014 |
| BZ# 105 | ND | 0.048 | 0.012 |
| BZ# 138 | ND | 0.048 | 0.011 |
| BZ# 187 | ND | 0.048 | 0.0099 |
| BZ# 126 | ND | 0.048 | 0.012 |
| BZ# 128 | ND | 0.048 | 0.011 |
| BZ# 167 | ND | 0.048 | 0.010 |
| BZ# 156 | ND | 0.048 | 0.012 |
| BZ# 157 | ND | 0.048 | 0.011 |
| BZ# 180 | ND | 0.048 | 0.011 |
| BZ# 170 | ND | 0.048 | 0.014 |
| BZ# 169 | ND | 0.048 | 0.013 |
| BZ# 189 | ND | 0.048 | 0.014 |
| BZ# 195 | ND | 0.048 | 0.013 |
| BZ# 206 | ND | 0.048 | 0.012 |
| BZ# 209 | ND | 0.048 | 0.015 |

| Surrogate | %REC | Limits |
|---|---|---|
| TCMX | 71 | 37-140 |
| BZ# 205 | 80 | 37-140 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



18.1

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Polychlorinated Biphenyl Congeners

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8082 |
| Field ID: | MW2.3-081505 | Batch#: | 105026 |
| Lab ID: | 181301-004 | Sampled: | 08/15/05 |
| Matrix: | Water | Received: | 08/17/05 |
| Units: | ug/L | Prepared: | 08/20/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/22/05 |

Cleanup Method: EPA 3665A

| Analyte | Result | RL | MDL |
|---|---|---|---|
| BZ# 8 | ND | 0.048 | 0.012 |
| BZ# 18 | ND | 0.048 | 0.024 |
| BZ# 28 | ND | 0.048 | 0.020 |
| BZ# 52 | ND | 0.048 | 0.019 |
| BZ# 44 | ND | 0.048 | 0.0097 |
| BZ# 66 | ND | 0.048 | 0.0098 |
| BZ# 101 | ND | 0.048 | 0.013 |
| BZ# 81 | ND | 0.048 | 0.019 |
| BZ# 77 | ND | 0.048 | 0.010 |
| BZ# 123 | ND | 0.048 | 0.011 |
| BZ# 118 | ND | 0.048 | 0.010 |
| BZ# 114 | ND | 0.048 | 0.010 |
| BZ# 153 | ND | 0.048 | 0.014 |
| BZ# 105 | ND | 0.048 | 0.012 |
| BZ# 138 | ND | 0.048 | 0.011 |
| BZ# 187 | ND | 0.048 | 0.0099 |
| BZ# 126 | ND | 0.048 | 0.012 |
| BZ# 128 | ND | 0.048 | 0.011 |
| BZ# 167 | ND | 0.048 | 0.010 |
| BZ# 156 | ND | 0.048 | 0.012 |
| BZ# 157 | ND | 0.048 | 0.011 |
| BZ# 180 | ND | 0.048 | 0.011 |
| BZ# 170 | ND | 0.048 | 0.014 |
| BZ# 169 | ND | 0.048 | 0.013 |
| BZ# 189 | ND | 0.048 | 0.014 |
| BZ# 195 | ND | 0.048 | 0.013 |
| BZ# 206 | ND | 0.048 | 0.012 |
| BZ# 209 | ND | 0.048 | 0.015 |

| Surrogate | %REC | Limits |
|---|---|---|
| TCMX | 97 | 37-140 |
| BZ# 205 | 108 | 37-140 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



19.1

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Polychlorinated Biphenyl Congeners

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8082 |
| Field ID: | MW3.1-081605 | Batch#: | 105026 |
| Lab ID: | 181301-005 | Sampled: | 08/16/05 |
| Matrix: | Water | Received: | 08/17/05 |
| Units: | ug/L | Prepared: | 08/20/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/22/05 |

Cleanup Method: EPA 3665A

| Analyte | Result | RL | MDL |
|---|---|---|---|
| BZ# 8 | ND | 0.049 | 0.012 |
| BZ# 18 | ND | 0.049 | 0.025 |
| BZ# 28 | ND | 0.049 | 0.020 |
| BZ# 52 | ND | 0.049 | 0.019 |
| BZ# 44 | ND | 0.049 | 0.0097 |
| BZ# 66 | ND | 0.049 | 0.0099 |
| BZ# 101 | ND | 0.049 | 0.013 |
| BZ# 81 | ND | 0.049 | 0.019 |
| BZ# 77 | ND | 0.049 | 0.010 |
| BZ# 123 | ND | 0.049 | 0.011 |
| BZ# 118 | ND | 0.049 | 0.010 |
| BZ# 114 | ND | 0.049 | 0.010 |
| BZ# 153 | ND | 0.049 | 0.015 |
| BZ# 105 | ND | 0.049 | 0.012 |
| BZ# 138 | ND | 0.049 | 0.011 |
| BZ# 187 | ND | 0.049 | 0.010 |
| BZ# 126 | ND | 0.049 | 0.012 |
| BZ# 128 | ND | 0.049 | 0.011 |
| BZ# 167 | ND | 0.049 | 0.010 |
| BZ# 156 | ND | 0.049 | 0.012 |
| BZ# 157 | ND | 0.049 | 0.011 |
| BZ# 180 | ND | 0.049 | 0.011 |
| BZ# 170 | ND | 0.049 | 0.015 |
| BZ# 169 | ND | 0.049 | 0.013 |
| BZ# 189 | ND | 0.049 | 0.014 |
| BZ# 195 | ND | 0.049 | 0.013 |
| BZ# 206 | ND | 0.049 | 0.012 |
| BZ# 209 | ND | 0.049 | 0.015 |

| Surrogate | %REC | Limits |
|---|---|---|
| TCMX | 71 | 37-140 |
| BZ# 205 | 76 | 37-140 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



20.1

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Polychlorinated Biphenyl Congeners

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8082 |
| Field ID: | MW3.2-081605 | Batch#: | 105026 |
| Lab ID: | 181301-006 | Sampled: | 08/16/05 |
| Matrix: | Water | Received: | 08/17/05 |
| Units: | ug/L | Prepared: | 08/20/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/22/05 |

Cleanup Method: EPA 3665A

| Analyte | Result | RL | MDL |
|---|---|---|---|
| BZ# 8 | ND | 0.048 | 0.012 |
| BZ# 18 | ND | 0.048 | 0.024 |
| BZ# 28 | ND | 0.048 | 0.019 |
| BZ# 52 | ND | 0.048 | 0.018 |
| BZ# 44 | ND | 0.048 | 0.0096 |
| BZ# 66 | ND | 0.048 | 0.0097 |
| BZ# 101 | ND | 0.048 | 0.013 |
| BZ# 81 | ND | 0.048 | 0.019 |
| BZ# 77 | ND | 0.048 | 0.010 |
| BZ# 123 | ND | 0.048 | 0.011 |
| BZ# 118 | ND | 0.048 | 0.010 |
| BZ# 114 | ND | 0.048 | 0.010 |
| BZ# 153 | ND | 0.048 | 0.014 |
| BZ# 105 | ND | 0.048 | 0.011 |
| BZ# 138 | ND | 0.048 | 0.011 |
| BZ# 187 | ND | 0.048 | 0.0098 |
| BZ# 126 | ND | 0.048 | 0.012 |
| BZ# 128 | ND | 0.048 | 0.010 |
| BZ# 167 | ND | 0.048 | 0.010 |
| BZ# 156 | ND | 0.048 | 0.012 |
| BZ# 157 | ND | 0.048 | 0.011 |
| BZ# 180 | ND | 0.048 | 0.011 |
| BZ# 170 | ND | 0.048 | 0.014 |
| BZ# 169 | ND | 0.048 | 0.013 |
| BZ# 189 | ND | 0.048 | 0.014 |
| BZ# 195 | ND | 0.048 | 0.012 |
| BZ# 206 | ND | 0.048 | 0.012 |
| BZ# 209 | ND | 0.048 | 0.015 |

| Surrogate | %REC | Limits |
|---|---|---|
| TCMX | 64 | 37-140 |
| BZ# 205 | 76 | 37-140 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



21.1

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Polychlorinated Biphenyl Congeners

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8082 |
| Field ID: | MW-DUP-1-081605 | Batch#: | 105026 |
| Lab ID: | 181301-007 | Sampled: | 08/16/05 |
| Matrix: | Water | Received: | 08/17/05 |
| Units: | ug/L | Prepared: | 08/20/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/22/05 |

Cleanup Method: EPA 3665A

| Analyte | Result | RL | MDL |
|---|---|---|---|
| BZ# 8 | ND | 0.049 | 0.012 |
| BZ# 18 | ND | 0.049 | 0.025 |
| BZ# 28 | ND | 0.049 | 0.020 |
| BZ# 52 | ND | 0.049 | 0.019 |
| BZ# 44 | ND | 0.049 | 0.0097 |
| BZ# 66 | ND | 0.049 | 0.0099 |
| BZ# 101 | ND | 0.049 | 0.013 |
| BZ# 81 | ND | 0.049 | 0.019 |
| BZ# 77 | ND | 0.049 | 0.010 |
| BZ# 123 | ND | 0.049 | 0.011 |
| BZ# 118 | ND | 0.049 | 0.010 |
| BZ# 114 | ND | 0.049 | 0.010 |
| BZ# 153 | ND | 0.049 | 0.015 |
| BZ# 105 | ND | 0.049 | 0.012 |
| BZ# 138 | ND | 0.049 | 0.011 |
| BZ# 187 | ND | 0.049 | 0.010 |
| BZ# 126 | ND | 0.049 | 0.012 |
| BZ# 128 | ND | 0.049 | 0.011 |
| BZ# 167 | ND | 0.049 | 0.010 |
| BZ# 156 | ND | 0.049 | 0.012 |
| BZ# 157 | ND | 0.049 | 0.011 |
| BZ# 180 | ND | 0.049 | 0.011 |
| BZ# 170 | ND | 0.049 | 0.015 |
| BZ# 169 | ND | 0.049 | 0.013 |
| BZ# 189 | ND | 0.049 | 0.014 |
| BZ# 195 | ND | 0.049 | 0.013 |
| BZ# 206 | ND | 0.049 | 0.012 |
| BZ# 209 | ND | 0.049 | 0.015 |

| Surrogate | %REC | Limits |
|---|---|---|
| TCMX | 78 | 37-140 |
| BZ# 205 | 76 | 37-140 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



22.1

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Polychlorinated Biphenyl Congeners

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8082 |
| Field ID: | MW3.3-081605 | Batch#: | 105026 |
| Lab ID: | 181301-008 | Sampled: | 08/16/05 |
| Matrix: | Water | Received: | 08/17/05 |
| Units: | ug/L | Prepared: | 08/20/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/22/05 |

Cleanup Method: EPA 3665A

| Analyte | Result | RL | MDL |
|---|---|---|---|
| BZ# 8 | ND | 0.049 | 0.012 |
| BZ# 18 | ND | 0.049 | 0.025 |
| BZ# 28 | ND | 0.049 | 0.020 |
| BZ# 52 | ND | 0.049 | 0.019 |
| BZ# 44 | ND | 0.049 | 0.0097 |
| BZ# 66 | ND | 0.049 | 0.0099 |
| BZ# 101 | ND | 0.049 | 0.013 |
| BZ# 81 | ND | 0.049 | 0.019 |
| BZ# 77 | ND | 0.049 | 0.010 |
| BZ# 123 | ND | 0.049 | 0.011 |
| BZ# 118 | ND | 0.049 | 0.010 |
| BZ# 114 | ND | 0.049 | 0.010 |
| BZ# 153 | ND | 0.049 | 0.015 |
| BZ# 105 | ND | 0.049 | 0.012 |
| BZ# 138 | ND | 0.049 | 0.011 |
| BZ# 187 | ND | 0.049 | 0.010 |
| BZ# 126 | ND | 0.049 | 0.012 |
| BZ# 128 | ND | 0.049 | 0.011 |
| BZ# 167 | ND | 0.049 | 0.010 |
| BZ# 156 | ND | 0.049 | 0.012 |
| BZ# 157 | ND | 0.049 | 0.011 |
| BZ# 180 | ND | 0.049 | 0.011 |
| BZ# 170 | ND | 0.049 | 0.015 |
| BZ# 169 | ND | 0.049 | 0.013 |
| BZ# 189 | ND | 0.049 | 0.014 |
| BZ# 195 | ND | 0.049 | 0.013 |
| BZ# 206 | ND | 0.049 | 0.012 |
| BZ# 209 | ND | 0.049 | 0.015 |

| Surrogate | %REC | Limits |
|---|---|---|
| TCMX | 95 | 37-140 |
| BZ# 205 | 86 | 37-140 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



23.1

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Polychlorinated Biphenyl Congeners

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8082 |
| Field ID: | MW3.4-081605 | Batch#: | 105026 |
| Lab ID: | 181301-009 | Sampled: | 08/16/05 |
| Matrix: | Water | Received: | 08/17/05 |
| Units: | ug/L | Prepared: | 08/20/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/22/05 |

Cleanup Method: EPA 3665A

| Analyte | Result | RL | MDL |
|---|---|---|---|
| BZ# 8 | ND | 0.049 | 0.012 |
| BZ# 18 | ND | 0.049 | 0.025 |
| BZ# 28 | ND | 0.049 | 0.020 |
| BZ# 52 | ND | 0.049 | 0.019 |
| BZ# 44 | ND | 0.049 | 0.0097 |
| BZ# 66 | ND | 0.049 | 0.0099 |
| BZ# 101 | ND | 0.049 | 0.013 |
| BZ# 81 | ND | 0.049 | 0.019 |
| BZ# 77 | ND | 0.049 | 0.010 |
| BZ# 123 | ND | 0.049 | 0.011 |
| BZ# 118 | ND | 0.049 | 0.010 |
| BZ# 114 | ND | 0.049 | 0.010 |
| BZ# 153 | ND | 0.049 | 0.015 |
| BZ# 105 | ND | 0.049 | 0.012 |
| BZ# 138 | ND | 0.049 | 0.011 |
| BZ# 187 | ND | 0.049 | 0.010 |
| BZ# 126 | ND | 0.049 | 0.012 |
| BZ# 128 | ND | 0.049 | 0.011 |
| BZ# 167 | ND | 0.049 | 0.010 |
| BZ# 156 | ND | 0.049 | 0.012 |
| BZ# 157 | ND | 0.049 | 0.011 |
| BZ# 180 | ND | 0.049 | 0.011 |
| BZ# 170 | ND | 0.049 | 0.015 |
| BZ# 169 | ND | 0.049 | 0.013 |
| BZ# 189 | ND | 0.049 | 0.014 |
| BZ# 195 | ND | 0.049 | 0.013 |
| BZ# 206 | ND | 0.049 | 0.012 |
| BZ# 209 | ND | 0.049 | 0.015 |

| Surrogate | %REC | Limits |
|---|---|---|
| TCMX | 75 | 37-140 |
| BZ# 205 | 79 | 37-140 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



24.1

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Polychlorinated Biphenyl Congeners

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8082 |
| Field ID: | MW3.5-081605 | Batch#: | 105026 |
| Lab ID: | 181301-010 | Sampled: | 08/16/05 |
| Matrix: | Water | Received: | 08/17/05 |
| Units: | ug/L | Prepared: | 08/20/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/22/05 |

Cleanup Method: EPA 3665A

| Analyte | Result | RL | MDL |
|---|---|---|---|
| BZ# 8 | ND | 0.048 | 0.012 |
| BZ# 18 | ND | 0.048 | 0.024 |
| BZ# 28 | ND | 0.048 | 0.020 |
| BZ# 52 | ND | 0.048 | 0.019 |
| BZ# 44 | ND | 0.048 | 0.0097 |
| BZ# 66 | ND | 0.048 | 0.0098 |
| BZ# 101 | ND | 0.048 | 0.013 |
| BZ# 81 | ND | 0.048 | 0.019 |
| BZ# 77 | ND | 0.048 | 0.010 |
| BZ# 123 | ND | 0.048 | 0.011 |
| BZ# 118 | ND | 0.048 | 0.010 |
| BZ# 114 | ND | 0.048 | 0.010 |
| BZ# 153 | ND | 0.048 | 0.014 |
| BZ# 105 | ND | 0.048 | 0.012 |
| BZ# 138 | ND | 0.048 | 0.011 |
| BZ# 187 | ND | 0.048 | 0.0099 |
| BZ# 126 | ND | 0.048 | 0.012 |
| BZ# 128 | ND | 0.048 | 0.011 |
| BZ# 167 | ND | 0.048 | 0.010 |
| BZ# 156 | ND | 0.048 | 0.012 |
| BZ# 157 | ND | 0.048 | 0.011 |
| BZ# 180 | ND | 0.048 | 0.011 |
| BZ# 170 | ND | 0.048 | 0.014 |
| BZ# 169 | ND | 0.048 | 0.013 |
| BZ# 189 | ND | 0.048 | 0.014 |
| BZ# 195 | ND | 0.048 | 0.013 |
| BZ# 206 | ND | 0.048 | 0.012 |
| BZ# 209 | ND | 0.048 | 0.015 |

| Surrogate | %REC | Limits |
|---|---|---|
| TCMX | 87 | 37-140 |
| BZ# 205 | 85 | 37-140 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



25.1

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

## Polychlorinated Biphenyl Congeners

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8082 |
| Type: | BLANK | Diln Fac: | 1.000 |
| Lab ID: | QC305827 | Batch#: | 105026 |
| Matrix: | Water | Prepared: | 08/20/05 |
| Units: | ug/L | Analyzed: | 08/21/05 |

Cleanup Method: EPA 3665A

| Analyte | Result | RL | MDL |
|---|---|---|---|
| BZ# 8 | ND | 0.050 | 0.012 |
| BZ# 18 | ND | 0.050 | 0.025 |
| BZ# 28 | ND | 0.050 | 0.020 |
| BZ# 52 | ND | 0.050 | 0.019 |
| BZ# 44 | ND | 0.050 | 0.010 |
| BZ# 66 | ND | 0.050 | 0.010 |
| BZ# 101 | ND | 0.050 | 0.013 |
| BZ# 81 | ND | 0.050 | 0.020 |
| BZ# 77 | ND | 0.050 | 0.011 |
| BZ# 123 | ND | 0.050 | 0.012 |
| BZ# 118 | ND | 0.050 | 0.011 |
| BZ# 114 | ND | 0.050 | 0.011 |
| BZ# 153 | ND | 0.050 | 0.015 |
| BZ# 105 | ND | 0.050 | 0.012 |
| BZ# 138 | ND | 0.050 | 0.011 |
| BZ# 187 | ND | 0.050 | 0.010 |
| BZ# 126 | ND | 0.050 | 0.013 |
| BZ# 128 | ND | 0.050 | 0.011 |
| BZ# 167 | ND | 0.050 | 0.010 |
| BZ# 156 | ND | 0.050 | 0.013 |
| BZ# 157 | ND | 0.050 | 0.011 |
| BZ# 180 | ND | 0.050 | 0.011 |
| BZ# 170 | ND | 0.050 | 0.015 |
| BZ# 169 | ND | 0.050 | 0.014 |
| BZ# 189 | ND | 0.050 | 0.015 |
| BZ# 195 | ND | 0.050 | 0.013 |
| BZ# 206 | ND | 0.050 | 0.012 |
| BZ# 209 | ND | 0.050 | 0.016 |

| Surrogate | %REC | Limits |
|---|---|---|
| TCMX | 63 | 37-140 |
| BZ# 205 | 85 | 37-140 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



26.1

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

## Polychlorinated Biphenyl Congeners

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8082 |
| Type: | LCS | Diln Fac: | 1.000 |
| Lab ID: | QC305828 | Batch#: | 105026 |
| Matrix: | Water | Prepared: | 08/20/05 |
| Units: | ug/L | Analyzed: | 08/21/05 |

Cleanup Method: EPA 3665A

| Analyte | Spiked | Result | %REC | Limits |
|---|---|---|---|---|
| BZ# 8 | 1.000 | 0.8210 | 82 | 50-150 |
| BZ# 18 | 1.000 | 0.8434 | 84 | 50-150 |
| BZ# 28 | 1.000 | 0.8973 | 90 | 50-150 |
| BZ# 52 | 1.000 | 0.8038 | 80 | 50-150 |
| BZ# 44 | 1.000 | 0.8317 | 83 | 50-150 |
| BZ# 66 | 1.000 | 0.8917 | 89 | 50-150 |
| BZ# 101 | 1.000 | 0.8679 | 87 | 50-150 |
| BZ# 81 | 1.000 | 0.9865 | 99 | 50-150 |
| BZ# 77 | 1.000 | 1.087 # | 109 | 50-150 |
| BZ# 123 | 1.000 | 0.8935 | 89 | 50-150 |
| BZ# 118 | 1.000 | 0.8985 | 90 | 50-150 |
| BZ# 114 | 1.000 | 0.9169 | 92 | 50-150 |
| BZ# 153 | 1.000 | 0.8497 | 85 | 50-150 |
| BZ# 105 | 1.000 | 0.9570 | 96 | 50-150 |
| BZ# 138 | 1.000 | 0.8942 | 89 | 50-150 |
| BZ# 187 | 1.000 | 0.8277 | 83 | 50-150 |
| BZ# 126 | 1.000 | 1.042 | 104 | 50-150 |
| BZ# 128 | 1.000 | 0.8940 | 89 | 50-150 |
| BZ# 167 | 1.000 | 0.8994 | 90 | 50-150 |
| BZ# 156 | 1.000 | 0.8962 | 90 | 50-150 |
| BZ# 157 | 1.000 | 0.9132 | 91 | 50-150 |
| BZ# 180 | 1.000 | 0.8291 | 83 | 50-150 |
| BZ# 170 | 1.000 | 0.8657 | 87 | 50-150 |
| BZ# 169 | 1.000 | 1.007 | 101 | 50-150 |
| BZ# 189 | 1.000 | 0.9442 | 94 | 50-150 |
| BZ# 195 | 1.000 | 0.8604 | 86 | 50-150 |
| BZ# 206 | 1.000 | 0.7984 | 80 | 50-150 |
| BZ# 209 | 1.000 | 0.8214 | 82 | 50-150 |

| Surrogate | %REC | Limits |
|---|---|---|
| TCMX | 71 | 37-140 |
| BZ# 205 | 91 | 37-140 |

#= CCV drift outside limits; average CCV drift within limits per method requirements



27.1

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

## Polychlorinated Biphenyl Congeners

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8082 |
| Field ID: | MW2.1-081505 | Batch#: | 105026 |
| MSS Lab ID: | 181301-002 | Sampled: | 08/15/05 |
| Matrix: | Water | Received: | 08/17/05 |
| Units: | ug/L | Prepared: | 08/20/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/21/05 |

Type: MS
Lab ID: QC305829
Cleanup Method: EPA 3665A

| Analyte | MSS Result | Spiked | Result | %REC | Limits |
|---|---|---|---|---|---|
| BZ# 8 | <0.01196 | 0.9901 | 0.8919 | 90 | 50-150 |
| BZ# 18 | <0.02432 | 0.9901 | 0.9045 | 91 | 50-150 |
| BZ# 28 | <0.01952 | 0.9901 | 0.9746 | 98 | 50-150 |
| BZ# 52 | <0.01853 | 0.9901 | 0.8558 | 86 | 50-150 |
| BZ# 44 | <0.009652 | 0.9901 | 0.8922 | 90 | 50-150 |
| BZ# 66 | <0.009834 | 0.9901 | 0.9594 | 97 | 50-150 |
| BZ# 101 | <0.01287 | 0.9901 | 0.9272 | 94 | 50-150 |
| BZ# 81 | <0.01904 | 0.9901 | 1.098 | 111 | 50-150 |
| BZ# 77 | <0.01027 | 0.9901 | 1.120 # | 113 | 50-150 |
| BZ# 123 | <0.01108 | 0.9901 | 0.9543 | 96 | 50-150 |
| BZ# 118 | <0.01026 | 0.9901 | 0.9565 | 97 | 50-150 |
| BZ# 114 | <0.01010 | 0.9901 | 0.9350 | 94 | 50-150 |
| BZ# 153 | <0.01447 | 0.9901 | 0.9007 | 91 | 50-150 |
| BZ# 105 | <0.01160 | 0.9901 | 1.022 | 103 | 50-150 |
| BZ# 138 | <0.01062 | 0.9901 | 0.9583 | 97 | 50-150 |
| BZ# 187 | <0.009913 | 0.9901 | 0.8746 | 88 | 50-150 |
| BZ# 126 | <0.01229 | 0.9901 | 0.9364 | 95 | 50-150 |
| BZ# 128 | <0.01053 | 0.9901 | 0.9511 | 96 | 50-150 |
| BZ# 167 | <0.01005 | 0.9901 | 0.9566 | 97 | 50-150 |
| BZ# 156 | <0.01220 | 0.9901 | 0.9488 | 96 | 50-150 |
| BZ# 157 | <0.01061 | 0.9901 | 0.9656 | 98 | 50-150 |
| BZ# 180 | <0.01068 | 0.9901 | 0.8746 | 88 | 50-150 |
| BZ# 170 | <0.01442 | 0.9901 | 0.9143 | 92 | 50-150 |
| BZ# 169 | <0.01309 | 0.9901 | 1.067 | 108 | 50-150 |
| BZ# 189 | <0.01405 | 0.9901 | 0.9843 | 99 | 50-150 |
| BZ# 195 | <0.01261 | 0.9901 | 0.9074 | 92 | 50-150 |
| BZ# 206 | <0.01190 | 0.9901 | 0.8324 | 84 | 50-150 |
| BZ# 209 | <0.01531 | 0.9901 | 0.8574 | 87 | 50-150 |

| Surrogate | %REC | Limits |
|---|---|---|
| TCMX | 79 | 37-140 |
| BZ# 205 | 90 | 37-140 |

#= CCV drift outside limits; average CCV drift within limits per method requirements
RPD= Relative Percent Difference



28.1

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

## Polychlorinated Biphenyl Congeners

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8082 |
| Field ID: | MW2.1-081505 | Batch#: | 105026 |
| MSS Lab ID: | 181301-002 | Sampled: | 08/15/05 |
| Matrix: | Water | Received: | 08/17/05 |
| Units: | ug/L | Prepared: | 08/20/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/21/05 |

Type: MSD
Lab ID: QC305830
Cleanup Method: EPA 3665A

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|
| BZ# 8 | 0.9615 | 0.8249 | 86 | 50-150 | 5 | 30 |
| BZ# 18 | 0.9615 | 0.8249 | 86 | 50-150 | 6 | 30 |
| BZ# 28 | 0.9615 | 0.8485 | 88 | 50-150 | 11 | 30 |
| BZ# 52 | 0.9615 | 0.7597 | 79 | 50-150 | 9 | 30 |
| BZ# 44 | 0.9615 | 0.7844 | 82 | 50-150 | 10 | 30 |
| BZ# 66 | 0.9615 | 0.8171 | 85 | 50-150 | 13 | 30 |
| BZ# 101 | 0.9615 | 0.8005 | 83 | 50-150 | 12 | 30 |
| BZ# 81 | 0.9615 | 0.8602 | 89 | 50-150 | 21 | 30 |
| BZ# 77 | 0.9615 | 0.9644 # | 100 | 50-150 | 12 | 30 |
| BZ# 123 | 0.9615 | 0.8011 | 83 | 50-150 | 15 | 30 |
| BZ# 118 | 0.9615 | 0.8046 | 84 | 50-150 | 14 | 30 |
| BZ# 114 | 0.9615 | 0.8170 | 85 | 50-150 | 11 | 30 |
| BZ# 153 | 0.9615 | 0.7669 | 80 | 50-150 | 13 | 30 |
| BZ# 105 | 0.9615 | 0.8470 | 88 | 50-150 | 16 | 30 |
| BZ# 138 | 0.9615 | 0.8042 | 84 | 50-150 | 15 | 30 |
| BZ# 187 | 0.9615 | 0.7413 | 77 | 50-150 | 14 | 30 |
| BZ# 126 | 0.9615 | 0.9107 | 95 | 50-150 | 0 | 30 |
| BZ# 128 | 0.9615 | 0.7900 | 82 | 50-150 | 16 | 30 |
| BZ# 167 | 0.9615 | 0.7926 | 82 | 50-150 | 16 | 30 |
| BZ# 156 | 0.9615 | 0.7886 | 82 | 50-150 | 16 | 30 |
| BZ# 157 | 0.9615 | 0.8258 | 86 | 50-150 | 13 | 30 |
| BZ# 180 | 0.9615 | 0.7674 | 80 | 50-150 | 10 | 30 |
| BZ# 170 | 0.9615 | 0.7554 | 79 | 50-150 | 16 | 30 |
| BZ# 169 | 0.9615 | 0.8655 | 90 | 50-150 | 18 | 30 |
| BZ# 189 | 0.9615 | 0.8095 | 84 | 50-150 | 17 | 30 |
| BZ# 195 | 0.9615 | 0.7401 | 77 | 50-150 | 17 | 30 |
| BZ# 206 | 0.9615 | 0.6809 | 71 | 50-150 | 17 | 30 |
| BZ# 209 | 0.9615 | 0.7016 | 73 | 50-150 | 17 | 30 |

| Surrogate | %REC | Limits |
|---|---|---|
| TCMX | 77 | 37-140 |
| BZ# 205 | 80 | 37-140 |

#= CCV drift outside limits; average CCV drift within limits per method requirements
RPD= Relative Percent Difference



28.1

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Polynuclear Aromatics by HPLC

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8310 |
| Field ID: | MW2.1-081505 | Batch#: | 105025 |
| Lab ID: | 181301-002 | Sampled: | 08/15/05 |
| Matrix: | Water | Received: | 08/17/05 |
| Units: | ug/L | Prepared: | 08/20/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/22/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Naphthalene | ND | 0.95 | 0.07 |
| Acenaphthylene | ND | 1.9 | 0.09 |
| Acenaphthene | ND | 0.95 | 0.06 |
| Fluorene | ND | 0.19 | 0.01 |
| Phenanthrene | ND | 0.10 | 0.008 |
| Anthracene | ND | 0.10 | 0.008 |
| Fluoranthene | ND | 0.19 | 0.01 |
| Pyrene | ND | 0.10 | 0.007 |
| Benzo(a)anthracene | ND | 0.10 | 0.005 |
| Chrysene | ND | 0.10 | 0.006 |
| Benzo(b)fluoranthene | ND | 0.19 | 0.009 |
| Benzo(k)fluoranthene | ND | 0.10 | 0.005 |
| Benzo(a)pyrene | ND | 0.10 | 0.007 |
| Dibenz(a,h)anthracene | ND | 0.19 | 0.008 |
| Benzo(g,h,i)perylene | ND | 0.19 | 0.009 |
| Indeno(1,2,3-cd)pyrene | ND | 0.10 | 0.006 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1-Methylnaphthalene (UV) | 72 | 58-132 |
| 1-Methylnaphthalene (F) | 82 | 56-135 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



44.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Polynuclear Aromatics by HPLC

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8310 |
| Field ID: | MW2.2-081505 | Batch#: | 105025 |
| Lab ID: | 181301-003 | Sampled: | 08/15/05 |
| Matrix: | Water | Received: | 08/17/05 |
| Units: | ug/L | Prepared: | 08/20/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/22/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Naphthalene | ND | 0.95 | 0.07 |
| Acenaphthylene | ND | 1.9 | 0.09 |
| Acenaphthene | ND | 0.95 | 0.06 |
| Fluorene | ND | 0.19 | 0.01 |
| Phenanthrene | ND | 0.10 | 0.008 |
| Anthracene | ND | 0.10 | 0.008 |
| Fluoranthene | ND | 0.19 | 0.01 |
| Pyrene | ND | 0.10 | 0.007 |
| Benzo(a)anthracene | ND | 0.10 | 0.005 |
| Chrysene | ND | 0.10 | 0.006 |
| Benzo(b)fluoranthene | ND | 0.19 | 0.009 |
| Benzo(k)fluoranthene | ND | 0.10 | 0.005 |
| Benzo(a)pyrene | ND | 0.10 | 0.007 |
| Dibenz(a,h)anthracene | ND | 0.19 | 0.008 |
| Benzo(g,h,i)perylene | ND | 0.19 | 0.009 |
| Indeno(1,2,3-cd)pyrene | ND | 0.10 | 0.006 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1-Methylnaphthalene (UV) | 68 | 58-132 |
| 1-Methylnaphthalene (F) | 75 | 56-135 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



45.0

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# Polynuclear Aromatics by HPLC

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8310 |
| Field ID: | MW2.3-081505 | Batch#: | 105025 |
| Lab ID: | 181301-004 | Sampled: | 08/15/05 |
| Matrix: | Water | Received: | 08/17/05 |
| Units: | ug/L | Prepared: | 08/20/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/22/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Naphthalene | ND | 0.96 | 0.07 |
| Acenaphthylene | ND | 1.9 | 0.09 |
| Acenaphthene | ND | 0.96 | 0.06 |
| Fluorene | ND | 0.19 | 0.01 |
| Phenanthrene | ND | 0.10 | 0.009 |
| Anthracene | ND | 0.10 | 0.008 |
| Fluoranthene | ND | 0.19 | 0.01 |
| Pyrene | ND | 0.10 | 0.007 |
| Benzo(a)anthracene | ND | 0.10 | 0.005 |
| Chrysene | ND | 0.10 | 0.006 |
| Benzo(b)fluoranthene | ND | 0.19 | 0.009 |
| Benzo(k)fluoranthene | ND | 0.10 | 0.005 |
| Benzo(a)pyrene | ND | 0.10 | 0.008 |
| Dibenz(a,h)anthracene | ND | 0.19 | 0.009 |
| Benzo(g,h,i)perylene | ND | 0.19 | 0.01 |
| Indeno(1,2,3-cd)pyrene | ND | 0.10 | 0.006 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1-Methylnaphthalene (UV) | 85 | 58-132 |
| 1-Methylnaphthalene (F) | 95 | 56-135 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



46.0

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# Polynuclear Aromatics by HPLC

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8310 |
| Field ID: | MW3.1-081605 | Batch#: | 105025 |
| Lab ID: | 181301-005 | Sampled: | 08/16/05 |
| Matrix: | Water | Received: | 08/17/05 |
| Units: | ug/L | Prepared: | 08/20/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/22/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Naphthalene | ND | 0.96 | 0.07 |
| Acenaphthylene | ND | 1.9 | 0.09 |
| Acenaphthene | ND | 0.96 | 0.06 |
| Fluorene | ND | 0.19 | 0.01 |
| Phenanthrene | ND | 0.10 | 0.009 |
| Anthracene | ND | 0.10 | 0.008 |
| Fluoranthene | ND | 0.19 | 0.01 |
| Pyrene | ND | 0.10 | 0.007 |
| Benzo(a)anthracene | ND | 0.10 | 0.005 |
| Chrysene | ND | 0.10 | 0.006 |
| Benzo(b)fluoranthene | ND | 0.19 | 0.009 |
| Benzo(k)fluoranthene | ND | 0.10 | 0.005 |
| Benzo(a)pyrene | ND | 0.10 | 0.008 |
| Dibenz(a,h)anthracene | ND | 0.19 | 0.009 |
| Benzo(g,h,i)perylene | ND | 0.19 | 0.01 |
| Indeno(1,2,3-cd)pyrene | ND | 0.10 | 0.006 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1-Methylnaphthalene (UV) | 72 | 58-132 |
| 1-Methylnaphthalene (F) | 80 | 56-135 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



47.0

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# Polynuclear Aromatics by HPLC

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8310 |
| Field ID: | MW3.2-081605 | Batch#: | 105025 |
| Lab ID: | 181301-006 | Sampled: | 08/16/05 |
| Matrix: | Water | Received: | 08/17/05 |
| Units: | ug/L | Prepared: | 08/20/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/22/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Naphthalene | ND | 0.96 | 0.07 |
| Acenaphthylene | ND | 1.9 | 0.09 |
| Acenaphthene | ND | 0.96 | 0.06 |
| Fluorene | ND | 0.19 | 0.01 |
| Phenanthrene | ND | 0.10 | 0.009 |
| Anthracene | ND | 0.10 | 0.008 |
| Fluoranthene | ND | 0.19 | 0.01 |
| Pyrene | ND | 0.10 | 0.007 |
| Benzo(a)anthracene | ND | 0.10 | 0.005 |
| Chrysene | ND | 0.10 | 0.006 |
| Benzo(b)fluoranthene | ND | 0.19 | 0.009 |
| Benzo(k)fluoranthene | ND | 0.10 | 0.005 |
| Benzo(a)pyrene | ND | 0.10 | 0.008 |
| Dibenz(a,h)anthracene | ND | 0.19 | 0.009 |
| Benzo(g,h,i)perylene | ND | 0.19 | 0.01 |
| Indeno(1,2,3-cd)pyrene | ND | 0.10 | 0.006 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1-Methylnaphthalene (UV) | 91 | 58-132 |
| 1-Methylnaphthalene (F) | 93 | 56-135 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



48.0

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# Polynuclear Aromatics by HPLC

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8310 |
| Field ID: | MW-DUP-1-081605 | Batch#: | 105025 |
| Lab ID: | 181301-007 | Sampled: | 08/16/05 |
| Matrix: | Water | Received: | 08/17/05 |
| Units: | ug/L | Prepared: | 08/20/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/22/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Naphthalene | ND | 0.95 | 0.07 |
| Acenaphthylene | ND | 1.9 | 0.09 |
| Acenaphthene | ND | 0.95 | 0.06 |
| Fluorene | ND | 0.19 | 0.01 |
| Phenanthrene | ND | 0.10 | 0.008 |
| Anthracene | ND | 0.10 | 0.008 |
| Fluoranthene | ND | 0.19 | 0.01 |
| Pyrene | ND | 0.10 | 0.007 |
| Benzo(a)anthracene | ND | 0.10 | 0.005 |
| Chrysene | ND | 0.10 | 0.006 |
| Benzo(b)fluoranthene | ND | 0.19 | 0.009 |
| Benzo(k)fluoranthene | ND | 0.10 | 0.005 |
| Benzo(a)pyrene | ND | 0.10 | 0.007 |
| Dibenz(a,h)anthracene | ND | 0.19 | 0.008 |
| Benzo(g,h,i)perylene | ND | 0.19 | 0.009 |
| Indeno(1,2,3-cd)pyrene | ND | 0.10 | 0.006 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1-Methylnaphthalene (UV) | 83 | 58-132 |
| 1-Methylnaphthalene (F) | 91 | 56-135 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



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# Polynuclear Aromatics by HPLC

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8310 |
| Field ID: | MW3.3-081605 | Batch#: | 105025 |
| Lab ID: | 181301-008 | Sampled: | 08/16/05 |
| Matrix: | Water | Received: | 08/17/05 |
| Units: | ug/L | Prepared: | 08/20/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/22/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Naphthalene | ND | 0.95 | 0.07 |
| Acenaphthylene | ND | 1.9 | 0.09 |
| Acenaphthene | ND | 0.95 | 0.06 |
| Fluorene | ND | 0.19 | 0.01 |
| Phenanthrene | ND | 0.10 | 0.008 |
| Anthracene | ND | 0.10 | 0.008 |
| Fluoranthene | ND | 0.19 | 0.01 |
| Pyrene | ND | 0.10 | 0.007 |
| Benzo(a)anthracene | ND | 0.10 | 0.005 |
| Chrysene | ND | 0.10 | 0.006 |
| Benzo(b)fluoranthene | ND | 0.19 | 0.009 |
| Benzo(k)fluoranthene | ND | 0.10 | 0.005 |
| Benzo(a)pyrene | ND | 0.10 | 0.01 |
| Dibenz(a,h)anthracene | ND | 0.19 | 0.008 |
| Benzo(g,h,i)perylene | ND | 0.19 | 0.009 |
| Indeno(1,2,3-cd)pyrene | ND | 0.10 | 0.006 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1-Methylnaphthalene (UV) | 75 | 58-132 |
| 1-Methylnaphthalene (F) | 83 | 56-135 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



50.0

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# Polynuclear Aromatics by HPLC

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8310 |
| Field ID: | MW3.4-081605 | Batch#: | 105025 |
| Lab ID: | 181301-009 | Sampled: | 08/16/05 |
| Matrix: | Water | Received: | 08/17/05 |
| Units: | ug/L | Prepared: | 08/20/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/22/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Naphthalene | ND | 0.96 | 0.07 |
| Acenaphthylene | ND | 1.9 | 0.09 |
| Acenaphthene | ND | 0.96 | 0.06 |
| Fluorene | ND | 0.19 | 0.01 |
| Phenanthrene | ND | 0.10 | 0.009 |
| Anthracene | ND | 0.10 | 0.008 |
| Fluoranthene | ND | 0.19 | 0.01 |
| Pyrene | ND | 0.10 | 0.007 |
| Benzo(a)anthracene | ND | 0.10 | 0.005 |
| Chrysene | ND | 0.10 | 0.006 |
| Benzo(b)fluoranthene | ND | 0.19 | 0.009 |
| Benzo(k)fluoranthene | ND | 0.10 | 0.005 |
| Benzo(a)pyrene | ND | 0.10 | 0.01 |
| Dibenz(a,h)anthracene | ND | 0.19 | 0.009 |
| Benzo(g,h,i)perylene | ND | 0.19 | 0.01 |
| Indeno(1,2,3-cd)pyrene | ND | 0.10 | 0.006 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1-Methylnaphthalene (UV) | 89 | 58-132 |
| 1-Methylnaphthalene (F) | 97 | 56-135 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



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# Polynuclear Aromatics by HPLC

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8310 |
| Field ID: | MW3.5-081605 | Batch#: | 105025 |
| Lab ID: | 181301-010 | Sampled: | 08/16/05 |
| Matrix: | Water | Received: | 08/17/05 |
| Units: | ug/L | Prepared: | 08/20/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/22/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Naphthalene | ND | 0.96 | 0.07 |
| Acenaphthylene | ND | 1.9 | 0.09 |
| Acenaphthene | ND | 0.96 | 0.06 |
| Fluorene | ND | 0.19 | 0.01 |
| Phenanthrene | ND | 0.10 | 0.009 |
| Anthracene | ND | 0.10 | 0.008 |
| Fluoranthene | ND | 0.19 | 0.01 |
| Pyrene | ND | 0.10 | 0.007 |
| Benzo(a)anthracene | ND | 0.10 | 0.005 |
| Chrysene | ND | 0.10 | 0.006 |
| Benzo(b)fluoranthene | ND | 0.19 | 0.009 |
| Benzo(k)fluoranthene | ND | 0.10 | 0.005 |
| Benzo(a)pyrene | ND | 0.10 | 0.01 |
| Dibenz(a,h)anthracene | ND | 0.19 | 0.009 |
| Benzo(g,h,i)perylene | ND | 0.19 | 0.01 |
| Indeno(1,2,3-cd)pyrene | ND | 0.10 | 0.006 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1-Methylnaphthalene (UV) | 80 | 58-132 |
| 1-Methylnaphthalene (F) | 88 | 56-135 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



52.0

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Batch QC Report

## Polynuclear Aromatics by HPLC

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8310 |
| Type: | BLANK | Diln Fac: | 1.000 |
| Lab ID: | QC305823 | Batch#: | 105025 |
| Matrix: | Water | Prepared: | 08/20/05 |
| Units: | ug/L | Analyzed: | 08/22/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Naphthalene | ND | 1.0 | 0.07 |
| Acenaphthylene | ND | 2.0 | 0.09 |
| Acenaphthene | ND | 1.0 | 0.06 |
| Fluorene | ND | 0.20 | 0.02 |
| Phenanthrene | ND | 0.10 | 0.009 |
| Anthracene | ND | 0.10 | 0.008 |
| Fluoranthene | ND | 0.20 | 0.02 |
| Pyrene | ND | 0.10 | 0.007 |
| Benzo(a)anthracene | ND | 0.10 | 0.005 |
| Chrysene | ND | 0.10 | 0.007 |
| Benzo(b)fluoranthene | ND | 0.20 | 0.01 |
| Benzo(k)fluoranthene | ND | 0.10 | 0.005 |
| Benzo(a)pyrene | ND | 0.10 | 0.008 |
| Dibenz(a,h)anthracene | ND | 0.20 | 0.009 |
| Benzo(g,h,i)perylene | ND | 0.20 | 0.01 |
| Indeno(1,2,3-cd)pyrene | ND | 0.10 | 0.006 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1-Methylnaphthalene (UV) | 86 | 58-132 |
| 1-Methylnaphthalene (F) | 97 | 56-135 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



53.0

Curtis & Tompkins, Ltd.
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Batch QC Report

## Polynuclear Aromatics by HPLC

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8310 |
| Type: | LCS | Diln Fac: | 1.000 |
| Lab ID: | QC305824 | Batch#: | 105025 |
| Matrix: | Water | Prepared: | 08/20/05 |
| Units: | ug/L | Analyzed: | 08/22/05 |

| Analyte | Spiked | Result | %REC | Limits |
|---|---|---|---|---|
| Naphthalene | 10.00 | 8.453 | 85 | 67-120 |
| Acenaphthylene | 20.00 | 16.65 | 83 | 70-120 |
| Acenaphthene | 10.00 | 8.799 | 88 | 66-120 |
| Fluorene | 2.000 | 1.721 | 86 | 69-120 |
| Phenanthrene | 1.000 | 0.9262 | 93 | 63-120 |
| Anthracene | 1.000 | 0.9522 | 95 | 63-120 |
| Benzo(k)fluoranthene | 1.000 | 0.9185 | 92 | 65-124 |
| Indeno(1,2,3-cd)pyrene | 1.000 | 0.9267 | 93 | 62-123 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1-Methylnaphthalene (UV) | 80 | 58-132 |
| 1-Methylnaphthalene (F) | 90 | 56-135 |



54.0

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Batch QC Report

## Polynuclear Aromatics by HPLC

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8310 |
| Field ID: | MW2.1-081505 | Batch#: | 105025 |
| MSS Lab ID: | 181301-002 | Sampled: | 08/15/05 |
| Matrix: | Water | Received: | 08/17/05 |
| Units: | ug/L | Prepared: | 08/20/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/22/05 |

Type: MS Lab ID: QC305825

| Analyte | MSS Result | Spiked | Result | %REC | Limits |
|---|---|---|---|---|---|
| Naphthalene | <0.06891 | 9.524 | 8.023 | 84 | 42-122 |
| Acenaphthylene | <0.09010 | 19.05 | 15.65 | 82 | 51-126 |
| Acenaphthene | <0.06131 | 9.524 | 8.180 | 86 | 41-156 |
| Fluorene | <0.01469 | 1.905 | 1.608 | 84 | 39-150 |
| Phenanthrene | <0.008430 | 0.9524 | 0.8732 | 92 | 25-205 |
| Anthracene | <0.007771 | 0.9524 | 0.8998 | 94 | 56-151 |
| Benzo(k)fluoranthene | <0.004910 | 0.9524 | 0.8552 | 90 | 18-146 |
| Indeno(1,2,3-cd)pyrene | <0.006091 | 0.9524 | 0.8611 | 90 | 55-159 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1-Methylnaphthalene (UV) | 81 | 58-132 |
| 1-Methylnaphthalene (F) | 91 | 56-135 |

Type: MSD Lab ID: QC305826

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|
| Naphthalene | 9.524 | 7.427 | 78 | 42-122 | 8 | 36 |
| Acenaphthylene | 19.05 | 14.70 | 77 | 51-126 | 6 | 34 |
| Acenaphthene | 9.524 | 7.703 | 81 | 41-156 | 6 | 38 |
| Fluorene | 1.905 | 1.547 | 81 | 39-150 | 4 | 35 |
| Phenanthrene | 0.9524 | 0.8536 | 90 | 25-205 | 2 | 33 |
| Anthracene | 0.9524 | 0.8474 | 89 | 56-151 | 6 | 34 |
| Benzo(k)fluoranthene | 0.9524 | 0.8459 | 89 | 18-146 | 1 | 34 |
| Indeno(1,2,3-cd)pyrene | 0.9524 | 0.8545 | 90 | 55-159 | 1 | 33 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1-Methylnaphthalene (UV) | 75 | 58-132 |
| 1-Methylnaphthalene (F) | 85 | 56-135 |

RPD= Relative Percent Difference



55.0

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# Dissolved California Title 26 Metals

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Project#: | 16017.01 |
| Client: | Acton Mickelson Environmental | Location: | Former GA-Pacific Sawmill |
| Field ID: | MW2.1-081505 | Diln Fac: | 1.000 |
| Lab ID: | 181301-002 | Sampled: | 08/15/05 |
| Matrix: | Filtrate | Received: | 08/17/05 |
| Units: | ug/L | | |

| Analyte | Result | RL | Batch# | Prepared | Analyzed | Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Antimony | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Arsenic | 1.0 | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Barium | 12 | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Beryllium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Cadmium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Chromium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Cobalt | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Copper | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Lead | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Mercury | ND | 0.20 | 105036 | 08/22/05 | 08/22/05 | METHOD | EPA 7470A |
| Molybdenum | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Nickel | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Selenium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Silver | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Thallium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Vanadium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Zinc | 36 | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |

ND= Not Detected
RL= Reporting Limit



56.0

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# Dissolved California Title 26 Metals

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Project#: | 16017.01 |
| Client: | Acton Mickelson Environmental | Location: | Former GA-Pacific Sawmill |
| Field ID: | MW2.2-081505 | Diln Fac: | 1.000 |
| Lab ID: | 181301-003 | Sampled: | 08/15/05 |
| Matrix: | Filtrate | Received: | 08/17/05 |
| Units: | ug/L | | |

| Analyte | Result | RL | Batch# | Prepared | Analyzed | Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Antimony | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Arsenic | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Barium | 22 | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Beryllium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Cadmium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Chromium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Cobalt | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Copper | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Lead | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Mercury | ND | 0.20 | 105036 | 08/22/05 | 08/22/05 | METHOD | EPA 7470A |
| Molybdenum | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Nickel | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Selenium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Silver | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Thallium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Vanadium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Zinc | 7.1 | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |

ND= Not Detected
RL= Reporting Limit



57.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Dissolved California Title 26 Metals

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Project#: | 16017.01 |
| Client: | Acton Mickelson Environmental | Location: | Former GA-Pacific Sawmill |
| Field ID: | MW2.3-081505 | Diln Fac: | 1.000 |
| Lab ID: | 181301-004 | Sampled: | 08/15/05 |
| Matrix: | Filtrate | Received: | 08/17/05 |
| Units: | ug/L | | |

| Analyte | Result | RL | Batch# | Prepared | Analyzed | Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Antimony | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Arsenic | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Barium | 15 | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Beryllium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Cadmium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Chromium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Cobalt | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Copper | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Lead | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Mercury | ND | 0.20 | 105036 | 08/22/05 | 08/22/05 | METHOD | EPA 7470A |
| Molybdenum | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Nickel | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Selenium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Silver | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Thallium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Vanadium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Zinc | 5.6 | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |

ND= Not Detected
RL= Reporting Limit



58.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Dissolved California Title 26 Metals

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Project#: | 16017.01 |
| Client: | Acton Mickelson Environmental | Location: | Former GA-Pacific Sawmill |
| Field ID: | MW3.1-081605 | Diln Fac: | 1.000 |
| Lab ID: | 181301-005 | Sampled: | 08/16/05 |
| Matrix: | Filtrate | Received: | 08/17/05 |
| Units: | ug/L | | |

| Analyte | Result | RL | Batch# | Prepared | Analyzed | Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Antimony | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Arsenic | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Barium | 36 | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Beryllium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Cadmium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Chromium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Cobalt | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Copper | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Lead | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Mercury | ND | 0.20 | 105036 | 08/22/05 | 08/22/05 | METHOD | EPA 7470A |
| Molybdenum | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Nickel | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Selenium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Silver | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Thallium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Vanadium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Zinc | 4.0 | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |

ND= Not Detected
RL= Reporting Limit



59.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Dissolved California Title 26 Metals

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Project#: | 16017.01 |
| Client: | Acton Mickelson Environmental | Location: | Former GA-Pacific Sawmill |
| Field ID: | MW3.2-081605 | Diln Fac: | 1.000 |
| Lab ID: | 181301-006 | Sampled: | 08/16/05 |
| Matrix: | Filtrate | Received: | 08/17/05 |
| Units: | ug/L | | |

| Analyte | Result | RL | Batch# | Prepared | Analyzed | Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Antimony | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Arsenic | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Barium | 19 | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Beryllium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Cadmium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Chromium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Cobalt | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Copper | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Lead | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Mercury | ND | 0.20 | 105036 | 08/22/05 | 08/22/05 | METHOD | EPA 7470A |
| Molybdenum | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Nickel | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Selenium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Silver | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Thallium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Vanadium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Zinc | 4.4 | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |

ND= Not Detected
RL= Reporting Limit



60.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Dissolved California Title 26 Metals

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Project#: | 16017.01 |
| Client: | Acton Mickelson Environmental | Location: | Former GA-Pacific Sawmill |
| Field ID: | MW-DUP-1-081605 | Diln Fac: | 1.000 |
| Lab ID: | 181301-007 | Sampled: | 08/16/05 |
| Matrix: | Filtrate | Received: | 08/17/05 |
| Units: | ug/L | | |

| Analyte | Result | RL | Batch# | Prepared | Analyzed | Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Antimony | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Arsenic | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Barium | 36 | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Beryllium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Cadmium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Chromium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Cobalt | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Copper | 1.2 | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Lead | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Mercury | ND | 0.20 | 105036 | 08/22/05 | 08/22/05 | METHOD | EPA 7470A |
| Molybdenum | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Nickel | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Selenium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Silver | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Thallium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Vanadium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Zinc | 13 | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |

ND= Not Detected
RL= Reporting Limit



61.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Dissolved California Title 26 Metals

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Project#: | 16017.01 |
| Client: | Acton Mickelson Environmental | Location: | Former GA-Pacific Sawmill |
| Field ID: | MW3.3-081605 | Diln Fac: | 1.000 |
| Lab ID: | 181301-008 | Sampled: | 08/16/05 |
| Matrix: | Filtrate | Received: | 08/17/05 |
| Units: | ug/L | | |

| Analyte | Result | RL | Batch# | Prepared | Analyzed | Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Antimony | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Arsenic | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Barium | 7.1 | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Beryllium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Cadmium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Chromium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Cobalt | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Copper | 1.1 | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Lead | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Mercury | ND | 0.20 | 105036 | 08/22/05 | 08/22/05 | METHOD | EPA 7470A |
| Molybdenum | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Nickel | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Selenium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Silver | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Thallium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Vanadium | 1.2 | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Zinc | 7.4 | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |

ND= Not Detected
RL= Reporting Limit



62.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Dissolved California Title 26 Metals

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Project#: | 16017.01 |
| Client: | Acton Mickelson Environmental | Location: | Former GA-Pacific Sawmill |
| Field ID: | MW3.4-081605 | Diln Fac: | 1.000 |
| Lab ID: | 181301-009 | Sampled: | 08/16/05 |
| Matrix: | Filtrate | Received: | 08/17/05 |
| Units: | ug/L | | |

| Analyte | Result | RL | Batch# | Prepared | Analyzed | Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Antimony | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Arsenic | 4.2 | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Barium | 7.7 | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Beryllium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Cadmium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Chromium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Cobalt | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Copper | 1.6 | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Lead | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Mercury | ND | 0.20 | 105036 | 08/22/05 | 08/22/05 | METHOD | EPA 7470A |
| Molybdenum | 1.6 | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Nickel | 1.2 | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Selenium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Silver | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Thallium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Vanadium | 9.8 | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Zinc | 8.0 | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |

ND= Not Detected
RL= Reporting Limit



63.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Dissolved California Title 26 Metals

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Project#: | 16017.01 |
| Client: | Acton Mickelson Environmental | Location: | Former GA-Pacific Sawmill |
| Field ID: | MW3.5-081605 | Diln Fac: | 1.000 |
| Lab ID: | 181301-010 | Sampled: | 08/16/05 |
| Matrix: | Filtrate | Received: | 08/17/05 |
| Units: | ug/L | | |

| Analyte | Result | RL | Batch# | Prepared | Analyzed | Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Antimony | 1.5 | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Arsenic | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Barium | 22 | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Beryllium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Cadmium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Chromium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Cobalt | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Copper | 2.0 | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Lead | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Mercury | ND | 0.20 | 105036 | 08/22/05 | 08/22/05 | METHOD | EPA 7470A |
| Molybdenum | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Nickel | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Selenium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Silver | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Thallium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Vanadium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Zinc | 23 | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

## Dissolved California Title 26 Metals

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | METHOD |
| Project#: | 16017.01 | Analysis: | EPA 7470A |
| Analyte: | Mercury | Diln Fac: | 1.000 |
| Type: | BLANK | Batch#: | 105036 |
| Lab ID: | QC305868 | Prepared: | 08/22/05 |
| Matrix: | Filtrate | Analyzed: | 08/22/05 |
| Units: | ug/L | | |

| Result | RL |
|---|---|
| ND | 0.20 |

ND= Not Detected
RL= Reporting Limit



65.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

## Dissolved California Title 26 Metals

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | METHOD |
| Project#: | 16017.01 | Analysis: | EPA 7470A |
| Analyte: | Mercury | Batch#: | 105036 |
| Matrix: | Filtrate | Prepared: | 08/22/05 |
| Units: | ug/L | Analyzed: | 08/22/05 |
| Diln Fac: | 1.000 | | |

| Type | Lab ID | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|---|
| BS | QC305869 | 5.000 | 4.850 | 97 | 80-120 | | |
| BSD | QC305870 | 5.000 | 4.600 | 92 | 80-120 | 5 | 20 |

RPD= Relative Percent Difference



67.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

## Dissolved California Title 26 Metals

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | METHOD |
| Project#: | 16017.01 | Analysis: | EPA 7470A |
| Analyte: | Mercury | Batch#: | 105036 |
| Field ID: | MW2.1-081505 | Sampled: | 08/15/05 |
| MSS Lab ID: | 181301-002 | Received: | 08/17/05 |
| Matrix: | Filtrate | Prepared: | 08/22/05 |
| Units: | ug/L | Analyzed: | 08/22/05 |
| Diln Fac: | 1.000 | | |

| Type | Lab ID | MSS Result | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|---|---|
| MS | QC305871 | <0.07957 | 5.000 | 4.740 | 95 | 80-120 | | |
| MSD | QC305872 | | 5.000 | 4.580 | 92 | 80-120 | 3 | 20 |

RPD= Relative Percent Difference



68.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

## Dissolved California Title 26 Metals

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | 200.8 |
| Project#: | 16017.01 | Analysis: | EPA 6020 |
| Type: | BLANK | Diln Fac: | 5.000 |
| Lab ID: | QC306066 | Batch#: | 105083 |
| Matrix: | Filtrate | Prepared: | 08/23/05 |
| Units: | ug/L | Analyzed: | 08/26/05 |

| Analyte | Result | RL |
|---|---|---|
| Antimony | ND | 5.0 |
| Arsenic | ND | 5.0 |
| Barium | ND | 5.0 |
| Beryllium | ND | 5.0 |
| Cadmium | ND | 5.0 |
| Chromium | ND | 5.0 |
| Cobalt | ND | 5.0 |
| Copper | ND | 5.0 |
| Lead | ND | 5.0 |
| Molybdenum | ND | 5.0 |
| Nickel | ND | 5.0 |
| Selenium | ND | 5.0 |
| Silver | ND | 5.0 |
| Thallium | ND | 5.0 |
| Vanadium | ND | 5.0 |
| Zinc | ND | 5.0 |

ND= Not Detected
RL= Reporting Limit



66.1

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

## Dissolved California Title 26 Metals

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | 200.8 |
| Project#: | 16017.01 | Analysis: | EPA 6020 |
| Matrix: | Filtrate | Batch#: | 105083 |
| Units: | ug/L | Prepared: | 08/23/05 |
| Diln Fac: | 1.000 | | |

Type: BS Lab ID: QC306067

| Analyte | Spiked | Result | %REC | Limits | Analyzed |
|---|---|---|---|---|---|
| Antimony | 100.0 | 101.0 | 101 | 80-120 | 08/26/05 |
| Arsenic | 100.0 | 101.3 | 101 | 80-120 | 08/26/05 |
| Barium | 100.0 | 102.8 | 103 | 80-120 | 08/26/05 |
| Beryllium | 100.0 | 103.8 | 104 | 80-120 | 08/26/05 |
| Cadmium | 100.0 | 100.7 | 101 | 80-120 | 08/26/05 |
| Chromium | 100.0 | 112.2 | 112 | 80-120 | 08/26/05 |
| Cobalt | 100.0 | 109.2 | 109 | 80-120 | 08/26/05 |
| Copper | 100.0 | 107.2 | 107 | 80-120 | 08/26/05 |
| Lead | 100.0 | 105.0 | 105 | 80-120 | 08/26/05 |
| Molybdenum | 100.0 | 102.5 | 103 | 80-120 | 08/26/05 |
| Nickel | 100.0 | 106.4 | 106 | 80-120 | 08/26/05 |
| Selenium | 100.0 | 94.47 | 94 | 80-120 | 08/26/05 |
| Silver | 100.0 | 106.2 | 106 | 80-120 | 08/26/05 |
| Thallium | 100.0 | 102.0 | 102 | 80-120 | 08/26/05 |
| Vanadium | 100.0 | 112.3 | 112 | 80-120 | 08/26/05 |
| Zinc | 100.0 | 100.5 | 101 | 80-120 | 08/29/05 |

Type: BSD Lab ID: QC306068

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim | Analyzed |
|---|---|---|---|---|---|---|---|
| Antimony | 100.0 | 100.7 | 101 | 80-120 | 0 | 20 | 08/26/05 |
| Arsenic | 100.0 | 102.4 | 102 | 80-120 | 1 | 20 | 08/26/05 |
| Barium | 100.0 | 102.6 | 103 | 80-120 | 0 | 20 | 08/26/05 |
| Beryllium | 100.0 | 105.3 | 105 | 80-120 | 1 | 20 | 08/26/05 |
| Cadmium | 100.0 | 100.9 | 101 | 80-120 | 0 | 20 | 08/26/05 |
| Chromium | 100.0 | 112.0 | 112 | 80-120 | 0 | 20 | 08/26/05 |
| Cobalt | 100.0 | 109.3 | 109 | 80-120 | 0 | 20 | 08/26/05 |
| Copper | 100.0 | 107.8 | 108 | 80-120 | 1 | 20 | 08/26/05 |
| Lead | 100.0 | 103.7 | 104 | 80-120 | 1 | 20 | 08/26/05 |
| Molybdenum | 100.0 | 102.1 | 102 | 80-120 | 0 | 20 | 08/26/05 |
| Nickel | 100.0 | 108.7 | 109 | 80-120 | 2 | 20 | 08/26/05 |
| Selenium | 100.0 | 95.65 | 96 | 80-120 | 1 | 20 | 08/26/05 |
| Silver | 100.0 | 107.2 | 107 | 80-120 | 1 | 20 | 08/26/05 |
| Thallium | 100.0 | 102.9 | 103 | 80-120 | 1 | 20 | 08/26/05 |
| Vanadium | 100.0 | 110.7 | 111 | 80-120 | 1 | 20 | 08/26/05 |
| Zinc | 100.0 | 98.09 | 98 | 80-120 | 2 | 20 | 08/29/05 |

RPD= Relative Percent Difference



69.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

## Dissolved California Title 26 Metals

| | | | |
|---|---|---|---|
| Lab #: | 181301 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | 200.8 |
| Project#: | 16017.01 | Analysis: | EPA 6020 |
| Field ID: | MW2.1-081505 | Batch#: | 105083 |
| MSS Lab ID: | 181301-002 | Sampled: | 08/15/05 |
| Matrix: | Filtrate | Received: | 08/17/05 |
| Units: | ug/L | Prepared: | 08/23/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/26/05 |

Type: MS Lab ID: QC306069

| Analyte | MSS Result | Spiked | Result | %REC | Limits |
|---|---|---|---|---|---|
| Antimony | 0.3033 | 100.0 | 98.79 | 98 | 80-120 |
| Arsenic | 1.024 | 100.0 | 98.54 | 98 | 80-120 |
| Barium | 11.60 | 100.0 | 113.1 | 102 | 77-125 |
| Beryllium | <0.05514 | 100.0 | 101.9 | 102 | 80-120 |
| Cadmium | <0.1409 | 100.0 | 94.80 | 95 | 78-120 |
| Chromium | 0.9425 | 100.0 | 104.6 | 104 | 80-120 |
| Cobalt | 0.4452 | 100.0 | 101.8 | 101 | 80-120 |
| Copper | 0.7430 | 100.0 | 102.3 | 102 | 80-120 |
| Lead | <0.2399 | 100.0 | 102.6 | 103 | 80-120 |
| Molybdenum | 0.2648 | 100.0 | 98.91 | 99 | 80-120 |
| Nickel | 0.3999 | 100.0 | 102.5 | 102 | 77-120 |
| Selenium | 0.7294 | 100.0 | 89.14 | 88 | 64-123 |
| Silver | <0.04084 | 100.0 | 100.9 | 101 | 71-120 |
| Thallium | 0.1154 | 100.0 | 99.37 | 99 | 62-120 |
| Vanadium | 0.4369 | 100.0 | 105.9 | 105 | 78-130 |
| Zinc | 36.34 | 100.0 | 99.29 | 63 * | 64-129 |

Type: MSD Lab ID: QC306070

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|
| Antimony | 100.0 | 97.74 | 97 | 80-120 | 1 | 20 |
| Arsenic | 100.0 | 97.33 | 96 | 80-120 | 1 | 20 |
| Barium | 100.0 | 113.2 | 102 | 77-125 | 0 | 20 |
| Beryllium | 100.0 | 99.40 | 99 | 80-120 | 2 | 20 |
| Cadmium | 100.0 | 93.60 | 94 | 78-120 | 1 | 20 |
| Chromium | 100.0 | 105.0 | 104 | 80-120 | 0 | 20 |
| Cobalt | 100.0 | 100.1 | 100 | 80-120 | 2 | 20 |
| Copper | 100.0 | 100.8 | 100 | 80-120 | 1 | 20 |
| Lead | 100.0 | 101.2 | 101 | 80-120 | 1 | 20 |
| Molybdenum | 100.0 | 98.78 | 99 | 80-120 | 0 | 20 |
| Nickel | 100.0 | 102.0 | 102 | 77-120 | 0 | 20 |
| Selenium | 100.0 | 89.06 | 88 | 64-123 | 0 | 20 |
| Silver | 100.0 | 99.37 | 99 | 71-120 | 2 | 20 |
| Thallium | 100.0 | 98.64 | 99 | 62-120 | 1 | 20 |
| Vanadium | 100.0 | 106.1 | 106 | 78-130 | 0 | 20 |
| Zinc | 100.0 | 121.1 | 85 | 64-129 | 20 | 28 |

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference



70.0

# Acton - Mickelson • Environmental, Inc.

Chain of Custody and Analysis Request Form

Geotracker Global ID T0604591192

18130 1

☒ Standard TAT ☐ RUSH TAT ☐ 24 hr. TAT ☐ 48 hr. TAT ☐ 72 hr. TAT ☒ 5 day TAT

Page of | Chain of Custody No. 4375

**Send Results to:**
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762
(916) 939-7550, FAX (916) 939-7570
Attn.: Jeff Heglie

- ☐ Preliminary Fax Result
- ☒ Sample Receipt/ Log-In Confirmation
- ☒ Electronic Data Deliverables
- ☒ Geotracker EDF
- ☐ Raw Data Deliverables
- ☐ Call with Verbal Results

| Lab ID (LAB USE ONLY) | Field Point ID | Sample ID | Date Collected | Time Collected | Matrix | Container | Number of Containers | Preservative | Requested Analysis: 8015B TPHg | 8260B VOCs *1 | | | | | | | | Temperature Upon Receipt | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| -1 | 6 | MW 2.1 -081505TB1 | 8/15/05 | 0830 | W | V | 6 | HCL | X | X | | | | | | | | | *1 VOCs Low Level |
| -2 | 36 | MW 2.1 -081505 | 8/15/05 | 1332 | GW | V | 18 | HCL | X | X | | | | | | | | | Run MS/MSD on this sample |
| -3 | 12 | MW 2.2 -081505 | 8/15/05 | 1518 | GW | V | 6 | HCL | X | X | | | | | | | | | |
| -4 | 12 | MW 2.3 -081505 | 8/15/05 | 1425 | GW | V | 6 | HCL | X | X | | | | | | | | | |
| -5 | 12 | MW 3.1 -081605 | 8/16/05 | 0845 | GW | V | 6 | HCL | X | X | | | | | | | | | |
| -6 | 12 | MW 3.2 -081605 | 8/16/05 | 0950 | GW | V | 6 | HCL | X | X | | | | | | | | | |
| -7 | 12 | MW DUP 081605 | 8/16/05 | — | GW | V | 6 | HCL | X | X | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |

| Signature | Date | Time | Signature | Date | Time |
|---|---|---|---|---|---|
| Relinquished by: Thomas Carroll | 8/16/05 | 1430 | Relinquished by: | | |
| Received by: [signature] | 8/17/05 | 1200 | Received by: | | |
| Relinquished by: | | | Relinquished by: | | |
| Received by: | | | Received by: | | |

**Matrix:** W - Water; DW - Drinking Water; SW - Surface Water; GW - Ground Water; WW - Waste Water; RW - Reagent Water; S - Soil; SE - Sediment; SV - Soil Vapor; AA - Ambient Air; WS - Waste (Solid); O - Other
**Container:** GB - Glass Bottle (Amber); V - 40 ml VOA Vial; BT, ST, PT - Brass, Steel, and Plastic Tube; P - Polythethylene; GJ - Glass Jar, SC - Summa Canister; TD - Tedlar
**Preservative:** C - Cold; HS - Sulfuric Acid; HC - Hydrochloric Acid; HN - Nitric Acid; Na - Sodium Hydroxide; O - Other

Project Name and Location: Former Georgia-Pacific Sawmill
Project Number: 16017.01
Sampled by: Thomas Carroll (Print Name) [signature] (Signature)
Receiving Lab: Curtis & Tompkins

Cooler Temp = 2.5°

ORIGINAL – Laboratory (Return with Report) YELLOW - Laboratory PINK - Originator

# Acton - Mickelson • Environmental, Inc.

Chain of Custody and Analysis Request Form

Geotracker Global ID T0604591192

18130 1

☒ Standard TAT ☐ RUSH TAT ☐ 24 hr. TAT ☐ 48 hr. TAT ☐ 72 hr. TAT ☒ 5 day TAT

Page ___ of ___ | Chain of Custody No. 4379

**Send Results to:**
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762
(916) 939-7550, FAX (916) 939-7570
Attn.: Jeff Heglie

- ☐ Preliminary Fax Result
- ☒ Sample Receipt/ Log-In Confirmation
- ☒ Electronic Data Deliverables
- ☒ Geotracker EDF
- ☐ Raw Data Deliverables
- ☐ Call with Verbal Results

| Lab ID (LAB USE ONLY) | Field Point ID | Sample ID | Date Collected | Time Collected | Matrix | Container | Number of Containers | Preservative | Requested Analysis: 8015B TPHd & TPHg | 8270C SVOC's | 8082 PCB Congeners | 8310 PAH | 6020B/7471 Metals | Temperature | | | | | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | *1 | | | | *2 | | | | | | |
| | | MW-2.1-0815 05 | 8/15/05 | 1332 | GW | GB | 3 | C | X | | | | | | | | | | *1 Use Silica Gel Cleanup |
| | | MW-2.1-0815 05 | 8/15/05 | 1332 | GW | GB | 6 | C | | X | | | | | | | | | *2 Metals, dissolved Field Filtered |
| -2 | | MW-2.1-0815 05 | 8/15/05 | 1332 | GW | GB | 3 | C | | | X | | | | | | | | Run MS/MSD on this Sample |
| | | MW-2.1-0815 05 | 8/15/05 | 1332 | GW | GB | 3 | C | | | | X | | | | | | | |
| | | MW-2.1-0815 05 | 8/15/05 | 1332 | GW | P | 3 | HNO3 | | | | | X | | | | | | |
| | | Temperature Blank | 8/15/05 | — | W | P | 1 | C | | | | | | X | | | | | one per cooler |
| | | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | | |

| Signature | Date | Time | Signature | Date | Time |
|---|---|---|---|---|---|
| Relinquished by: Thomas Carroll | 8/16/05 | 1430 | Relinquished by: | | |
| Received by: [illegible] | 8/17/05 | 1200 | Received by: | | |
| Relinquished by: | | | Relinquished by: | | |
| Received by: | | | Received by: | | |

**Matrix:** W - Water; DW - Drinking Water; SW - Surface Water; GW - Ground Water; WW - Waste Water; RW - Reagent Water; S - Soil; SE - Sediment; SV - Soil Vapor; AA - Ambient Air; WS - Waste (Solid); O - Other
**Container:** GB - Glass Bottle (Amber); V - 40 ml VOA Vial; BT, ST, PT - Brass, Steel, and Plastic Tube; P - Polythethylene; GJ - Glass Jar, SC - Summa Canister; TD - Tedlar
**Preservative:** C - Cold; HS - Sulfuric Acid; HC - Hydrochloric Acid; HN - Nitric Acid; Na - Sodium Hydroxide; O - Other

Project Name and Location: Former Georgia-Pacific Sawmill
Project Number: 16017.01 Receiving Lab: Curtis & Tompkins
Sampled by: Thomas Carroll (Print Name) Thomas Carroll (Signature)

Cooler Temp = 2-4°

ORIGINAL – Laboratory (Return with Report) YELLOW - Laboratory PINK - Originator

# Acton Mickelson • Environmental, Inc.

Chain of Custody and Analysis Request Form

Geotracker Global ID T0604591192

181301

☒ Standard TAT ☐ RUSH TAT ☐ 24 hr. TAT ☐ 48 hr. TAT ☐ 72 hr. TAT ☒ 5 day TAT

Page ___ of ___ | Chain of Custody # 4380

**Send Results to:**
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762
(916) 939-7550, FAX (916) 939-7570
Attn.: Jeff Heglie

- ☐ Preliminary Fax Result
- ☒ Sample Receipt/ Log-In Confirmation
- ☒ Electronic Data Deliverables
- ☒ Geotracker EDF
- ☐ Raw Data Deliverables
- ☐ Call with Verbal Results

| Lab ID (LAB USE ONLY) | Field Point ID | Sample ID | Date Collected | Time Collected | Matrix | Container | Number of Containers | Preservative | 8015B TPHd+TPHg | 8270C 5 VOC's | 8082 PCB Congeners | 8310 PAH | 6020CB/7471 Metals | Temperature | | | | | | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | *1 | | | | *2 | | | | | | | |
| | | MW-2.2-08 15 05 | 8/15/05 | 1518 | GW | GB | 1 | C | X | | | | | | | | | | | *1 Use Silica Gel Cleanup |
| | | MW-2.2-08 15 05 | 8/15/05 | 1518 | GW | GB | 2 | C | | X | | | | | | | | | | *2 Metals, dissolved Field Filtered |
| 3 | | MW-2.2-08 15 05 | 8/15/05 | 1518 | GW | GB | 1 | C | | | X | | | | | | | | | |
| | | MW-2.2-08 15 05 | 8/15/05 | 1518 | GW | GB | 1 | C | | | | X | | | | | | | | |
| | | MW-2.2-08 15 05 | 8/15/05 | 1518 | GW | P | 1 | HNO3 | | | | | X | | | | | | | |
| | | Temperature | 8/15/05 | — | W | P | 1 | C | | | | | | X | | | | | | one per cooler |
| | | | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | | | |

| Signature | Date | Time | Signature | Date | Time |
|---|---|---|---|---|---|
| Relinquished by: Thomas Carroll | 8/16/05 | 1430 | Relinquished by: | | |
| Received by: [signature] | 8/17/05 | 1200 | Received by: | | |
| Relinquished by: | | | Relinquished by: | | |
| Received by: | | | Received by: | | |

**Matrix:** W - Water; DW - Drinking Water; SW - Surface Water; GW - Ground Water; WW - Waste Water; RW - Reagent Water; S - Soil; SE - Sediment; SV - Soil Vapor; AA - Ambient Air; WS - Waste (Solid); O - Other
**Container:** GB - Glass Bottle (Amber); V - 40 ml VOA Vial; BT, ST, PT - Brass, Steel, and Plastic Tube; P - Polythethylene; GJ - Glass Jar, SC - Summa Canister; TD - Tedlar
**Preservative:** C - Cold; HS - Sulfuric Acid; HC - Hydrochloric Acid; HN - Nitric Acid; Na - Sodium Hydroxide; O - Other

Project Name and Location: Former Georgia-Pacific Sawmill
Project Number: 16017.01
Receiving Lab: Curtis & Tompkins
Sampled by: Thomas Carroll (Print Name) [signature] (Signature)

Cooler Temp = 2.2°

ORIGINAL – Laboratory (Return with Report) YELLOW - Laboratory PINK - Originator

# Acton • Mickelson • Environmental, Inc.

Chain of Custody and Analysis Request Form

Geotracker Global ID T0604591192

Page ____ of ____ | Chain of Custody No. 4381

☒ Standard TAT ☐ RUSH TAT ☐ 24 hr. TAT ☐ 48 hr. TAT ☐ 72 hr. TAT ☒ 5 day TAT

K61301

**Send Results to:**
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762
(916) 939-7550, FAX (916) 939-7570
Attn.: Jeff Heglie

- [ ] Preliminary Fax Result
- [X] Sample Receipt/ Log-In Confirmation
- [X] Electronic Data Deliverables
- [X] Geotracker EDF
- [ ] Raw Data Deliverables
- [ ] Call with Verbal Results

| Lab ID (LAB USE ONLY) | Field Point ID | Sample ID | Date Collected | Time Collected | Matrix | Container | Number of Containers | Preservative | Requested Analysis: 8015B TPHd+TPHg | 8270C SVOC's | 8082 PCB Congeners | 8310 PAH | 6020B/7471 Metals | Temperature | | | | | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | *1 | | | | *2 | | | | | | |
| | | MW-2.3-08 15 05 | 8/15/05 | 1425 | GW | GB | 1 | C | X | | | | | | | | | | *1 use Silica Gel Cleanup |
| | | MW-2.3-08 15 05 | 8/15/05 | 1425 | GW | GB | 2 | C | | X | | | | | | | | | *2 Metals dissolved Field Filtered |
| 4 | | MW-2.3-08 15 05 | 8/15/05 | 1425 | GW | GB | 1 | C | | | X | | | | | | | | |
| | | MW-2.3 08 15 05 | 8/15/05 | 1425 | GW | GB | 1 | C | | | | X | | | | | | | |
| | | MW-2.3 08 15 05 | 8/15/05 | 1425 | GW | P | 1 | HNO3 | | | | | X | | | | | | |
| | | Temperature | 8/16/05 | — | W | P | 1 | C | | | | | | X | | | | | one per cooler |
| | | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | | |

| Signature | Date | Time | Signature | Date | Time |
|---|---|---|---|---|---|
| Relinquished by: Thomas Carroll | 8/16/05 | 1430 | Relinquished by: | | |
| Received by: [signature] | 8/17/05 | 1200 | Received by: | | |
| Relinquished by: | | | Relinquished by: | | |
| Received by: | | | Received by: | | |

**Matrix:** W - Water; DW - Drinking Water; SW - Surface Water; GW - Ground Water; WW - Waste Water; RW - Reagent Water; S - Soil; SE - Sediment; SV - Soil Vapor; AA - Ambient Air; WS - Waste (Solid); O - Other
**Container:** GB - Glass Bottle (Amber); V - 40 ml VOA Vial; BT, ST, PT - Brass, Steel, and Plastic Tube; P - Polythethylene; GJ - Glass Jar, SC - Summa Canister; TD - Tedlar
**Preservative:** C - Cold; HS - Sulfuric Acid; HC - Hydrochloric Acid; HN - Nitric Acid; Na - Sodium Hydroxide; O - Other

Project Name and Location: Former Georgia-Pacific Sawmill
Project Number: 16017.01 Receiving Lab: Curtis & Tompkins
Sampled by: Thomas Carroll (Print Name) Thomas Carroll (Signature)

Cooler Temp = 2°

ORIGINAL – Laboratory (Return with Report) YELLOW - Laboratory PINK - Originator

# Acton - Mickelson • Environmental, Inc.

Chain of Custody and Analysis Request Form

Geotracker Global ID T0604591192

181301

Page ____ of ____ | Chain of Custody N 4163

☒ Standard TAT ☐ RUSH TAT ☐ 24 hr. TAT ☐ 48 hr. TAT ☐ 72 hr. TAT ☒ 5 day TAT

**Send Results to:**
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762
(916) 939-7550, FAX (916) 939-7570
Attn.: Jeff Heglie

- ☐ Preliminary Fax Result
- ☒ Sample Receipt/ Log-In Confirmation
- ☒ Electronic Data Deliverables
- ☒ Geotracker EDF
- ☐ Raw Data Deliverables
- ☐ Call with Verbal Results

| Lab ID (LAB USE ONLY) | Field Point ID | Sample ID | Date Collected | Time Collected | Matrix | Container | Number of Containers | Preservative | *1 8015B TPHd+TPHg | 8270C SVOCs | 8082 PCB Congeners | 8310 PAH | *2 6020B/7471 Metals | Temperature | | | | | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MW-3.1-0816 05 | 8/16/05 | 0845 | GW | GB | 1 | C | X | | | | | | | | | | *1 Use Silica Gel Cleanup |
| | | MW-3.1-0816 05 | 8/16/05 | 0845 | GW | GB | 2 | C | | X | | | | | | | | | *2 Metals, dissolved Field Filtered |
| | | MW-3.1-0816 05 | 8/16/05 | 0845 | GW | GB | 1 | C | | | X | | | | | | | | |
| 5 | | MW-3.1-0816 05 | 8/16/05 | 0845 | GW | GB | 1 | C | | | | X | | | | | | | |
| | | MW-3.1-0816 05 | 8/16/05 | 0845 | GW | P | 1 | HNO3 | | | | | X | | | | | | |
| | | Temperature | 8/16/05 | — | W | P | 1 | C | | | | | | X | | | | | one per cooler |
| | | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | | |

| Signature | Date | Time | Signature | Date | Time |
|---|---|---|---|---|---|
| Relinquished by: Thomas Carroll | 8/16/05 | 1430 | Relinquished by: | | |
| Received by: [signature] | 8/17/05 | 1200 | Received by: | | |
| Relinquished by: | | | Relinquished by: | | |
| Received by: | | | Received by: | | |

**Matrix:** W - Water; DW - Drinking Water; SW - Surface Water; GW - Ground Water; WW - Waste Water; RW - Reagent Water; S - Soil; SE - Sediment; SV - Soil Vapor; AA - Ambient Air; WS - Waste (Solid); O - Other
**Container:** GB - Glass Bottle (Amber); V - 40 ml VOA Vial; BT, ST, PT - Brass, Steel, and Plastic Tube; P - Polythethylene; GJ - Glass Jar, SC - Summa Canister; TD - Tedlar
**Preservative:** C - Cold; HS - Sulfuric Acid; HC - Hydrochloric Acid; HN - Nitric Acid; Na - Sodium Hydroxide; O - Other

Project Name and Location: Former Georgia-Pacific Sawmill
Project Number: 16017.01 Receiving Lab: Curtis & Tompkins
Sampled by: Thomas Carroll (Print Name) Thomas Carroll (Signature)

Cooler Temp = 3°

ORIGINAL – Laboratory (Return with Report) YELLOW - Laboratory PINK - Originator

# Acton • Mickelson • Environmental, Inc.

Chain of Custody and Analysis Request Form

Geotracker Global ID T0604591192

K61301

Page ____ of ____ | Chain of Custody No. 4164

☒ Standard TAT ☐ RUSH TAT ☐ 24 hr. TAT ☐ 48 hr. TAT ☐ 72 hr. TAT ☒ 5 day TAT

**Send Results to:**
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762
(916) 939-7550, FAX (916) 939-7570
Attn.: Jeff Heglie

- ☐ Preliminary Fax Result
- ☒ Sample Receipt/ Log-In Confirmation
- ☒ Electronic Data Deliverables
- ☒ Geotracker EDF
- ☐ Raw Data Deliverables
- ☐ Call with Verbal Results

| Lab ID (LAB USE ONLY) | Field Point ID | Sample ID | Date Collected | Time Collected | Matrix | Container | Number of Containers | Preservative | Requested Analysis: 8015B TPHd | 8270C SVOC's | 8082 PCB Congeners | 8310 PAH | 6020B/7471 Metals | Temperature | | | | | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | *1 | | | | *2 | | | | | | |
| | | MW3.2-08 16 05 | 8/16/05 | 0950 | GW | GB | 1 | C | X | | | | | | | | | | *1 Use Silica Gel Cleanup |
| | | MW3.2-08 16 05 | 8/16/05 | 0950 | GW | GB | 2 | C | | X | | | | | | | | | *2 Metals, dissolved Field Filtered |
| | | MW3.2-08 16 05 | 8/16/05 | 0950 | GW | GB | 1 | C | | | X | | | | | | | | |
| | | MW3.2-08 16 05 | 8/16/05 | 0950 | GW | GB | 1 | C | | | | X | | | | | | | |
| | | MW3.2-08 16 05 | 8/16/05 | 0950 | GW | P | 1 | HNO3 | | | | | X | | | | | | |
| | | Temperature | 8/16/05 | — | W | P | 1 | C | | | | | | X | | | | | one per cooler |
| | | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | | |

| Signature | Date | Time | Signature | Date | Time |
|---|---|---|---|---|---|
| Relinquished by: Thomas Carroll | 8/16/05 | 1430 | Relinquished by: | | |
| Received by: [illegible] | 8/17/05 | 1200 | Received by: | | |
| Relinquished by: | | | Relinquished by: | | |
| Received by: | | | Received by: | | |

**Matrix:** W - Water; DW - Drinking Water; SW - Surface Water; GW - Ground Water; WW - Waste Water; RW - Reagent Water; S - Soil; SE - Sediment; SV - Soil Vapor; AA - Ambient Air; WS - Waste (Solid); O - Other
**Container:** GB - Glass Bottle (Amber); V - 40 ml VOA Vial; BT, ST, PT - Brass, Steel, and Plastic Tube; P - Polythethylene; GJ - Glass Jar, SC - Summa Canister; TD - Tedlar
**Preservative:** C - Cold; HS - Sulfuric Acid; HC - Hydrochloric Acid; HN - Nitric Acid; Na - Sodium Hydroxide; O - Other

Project Name and Location: Former Georgia-Pacific Sawmill
Project Number: 16017.01 Receiving Lab: Curtis + Tompkins
Sampled by: Thomas Carroll (Print Name) Thomas Carroll (Signature)

Cooler Temp = 3.4°

ORIGINAL – Laboratory (Return with Report) YELLOW - Laboratory PINK - Originator

# Acton - Mickelson • Environmental, Inc.

Chain of Custody and Analysis Request Form

Geotracker Global ID T0604591192

181301

☒ Standard TAT ☐ RUSH TAT ☐ 24 hr. TAT ☐ 48 hr. TAT ☐ 72 hr. TAT ☒ 5 day TAT

Page of

Chain of Custody No. 4158

**Send Results to:**
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762
(916) 939-7550, FAX (916) 939-7570
Attn.: Jeff Heglie

- ☐ Preliminary Fax Result
- ☒ Sample Receipt/ Log-In Confirmation
- ☒ Electronic Data Deliverables
- ☒ Geotracker EDF
- ☐ Raw Data Deliverables
- ☐ Call with Verbal Results

| Lab ID (LAB USE ONLY) | Field Point ID | Sample ID | Date Collected | Time Collected | Matrix | Container | Number of Containers | Preservative | Requested Analysis: 8015B TPH/ + TPH | 8270C SVOCs | 8082 PCB Congeners | 8310 PAH | 6020B/7471 Metals | Temperature | | | | | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | #1 | | | | #2 | | | | | | |
| | | MW-DUP-1-081605 | 8/16/05 | — | GW | GB | 1 | C | X | | | | | | | | | | #1 Use Silica Gel Cleanup |
| | | MW-DUP-1-081605 | 8/16/05 | — | GW | GB | 2 | C | | X | | | | | | | | | #2 Metals, dissolved Field Filtered |
| | | MW-DUP-1-081605 | 8/16/05 | — | GW | GB | 1 | C | | | X | | | | | | | | |
| | | MW-DUP-1-081605 | 8/16/05 | — | GW | GB | 1 | C | | | | X | | | | | | | |
| | | MW-DUP-1-08 05 | 8/16/05 | — | GW | P | 1 | HNO3 | | | | | X | | | | | | |
| | | Temperature | 8/16/05 | — | W | P | 1 | C | | | | | | X | | | | | one per cooler |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |

| Signature | Date | Time | Signature | Date | Time |
|---|---|---|---|---|---|
| Relinquished by: Thomas Carroll | 8/16/05 | 1430 | Relinquished by: | | |
| Received by: [illegible] | 8/17/05 | 1200 | Received by: | | |
| Relinquished by: | | | Relinquished by: | | |
| Received by: | | | Received by: | | |

**Matrix:** W - Water; DW - Drinking Water; SW - Surface Water; GW - Ground Water; WW - Waste Water; RW - Reagent Water; S - Soil; SE - Sediment; SV - Soil Vapor; AA - Ambient Air; WS - Waste (Solid); O - Other
**Container:** GB - Glass Bottle (Amber); V - 40 ml VOA Vial; BT, ST, PT - Brass, Steel, and Plastic Tube; P - Polythethylene; GJ - Glass Jar, SC - Summa Canister; TD - Tedlar
**Preservative:** C - Cold; HS - Sulfuric Acid; HC - Hydrochloric Acid; HN - Nitric Acid; Na - Sodium Hydroxide; O - Other

Project Name and Location: Former Georgia-Pacific Sawmill
Project Number: 16017.01
Receiving Lab: Curtis + Tompkins
Sampled by: Thomas Carroll (Print Name) Thomas Carroll (Signature)

ORIGINAL – Laboratory (Return with Report) YELLOW - Laboratory PINK - Originator

Cooler Temp = 2.6°

# Acton - Mickelson • Environmental, Inc.

Chain of Custody and Analysis Request Form

Geotracker Global ID T0604591192

181301

☒ Standard TAT ☐ RUSH TAT ☐ 24 hr. TAT ☐ 48 hr. TAT ☐ 72 hr. TAT ☒ 5 day TAT

Page ____ of ____ | Chain of Custody # 1165

**Send Results to:**
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762
(916) 939-7550, FAX (916) 939-7570
Attn.: Jeff Heglie

- ☐ Preliminary Fax Result
- ☒ Sample Receipt/ Log-In Confirmation
- ☒ Electronic Data Deliverables
- ☒ Geotracker EDF
- ☐ Raw Data Deliverables
- ☐ Call with Verbal Results

| Lab ID (LAB USE ONLY) | Field Point ID | Sample ID | Date Collected | Time Collected | Matrix | Container | Number of Containers | Preservative | Requested Analysis: 8015B TPH & TPH | 8270C SVOC's | 8082 PCB Congeners | 8310 PAH | 6020B/7471 Metals | Temperature | | | | | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | *1 | | | | *2 | | | | | | |
| | 6 | MW-33-08 16 05 | 8/16/05 | 1035 | GW | GB | 1 | C | X | | | | | | | | | | *1 Use Silica Gel Cleanup |
| | | MW-33-08 16 05 | 8/16/05 | 1035 | GW | GB | 2 | C | | X | | | | | | | | | *2 Metals, dissolved, Field Filtered |
| -8 | | MW-33-08 16 05 | 8/16/05 | 1035 | GW | GB | 1 | C | | | X | | | | | | | | |
| | | MW-33-08 16 05 | 8/16/05 | 1035 | GW | GB | 1 | C | | | | X | | | | | | | |
| | | MW-33-08 16 05 | 8/16/05 | 1035 | GW | P | 1 | HNO3 | | | | | X | | | | | | |
| | | Temperature | 8/16/05 | — | W | P | 1 | C | | | | | | X | | | | | one per cooler |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |

| Signature | Date | Time | Signature | Date | Time |
|---|---|---|---|---|---|
| Relinquished by: Thomas Carroll | 8/16/05 | 1430 | Relinquished by: | | |
| Received by: [signature] | 8/17/05 | 1200 | Received by: | | |
| Relinquished by: | | | Relinquished by: | | |
| Received by: | | | Received by: | | |

**Matrix:** W - Water; DW - Drinking Water; SW - Surface Water; GW - Ground Water; WW - Waste Water; RW - Reagent Water; S - Soil; SE - Sediment; SV - Soil Vapor; AA - Ambient Air; WS - Waste (Solid); O - Other
**Container:** GB - Glass Bottle (Amber); V - 40 ml VOA Vial; BT, ST, PT - Brass, Steel, and Plastic Tube; P - Polythethylene; GJ - Glass Jar, SC - Summa Canister; TD - Tedlar
**Preservative:** C - Cold; HS - Sulfuric Acid; HC - Hydrochloric Acid; HN - Nitric Acid; Na - Sodium Hydroxide; O - Other

Project Name and Location: Former Georgia-Pacific Sawmill
Project Number: 16017.01
Receiving Lab: Curtis & Tompkins
Sampled by: Thomas Carroll (Print Name) [signature] (Signature)

ORIGINAL – Laboratory (Return with Report) YELLOW - Laboratory PINK - Originator

Cooler Temp = 2.3°

# Acton • Mickelson • Environmental, Inc.

Chain of Custody and Analysis Request Form

Geotracker Global ID T06C4591192

| Page | of | Chain of Custody # 4189 |
|---|---|---|

☒ Standard TAT ☐ RUSH TAT ☐ 24 hr. TAT ☐ 48 hr. TAT ☐ 72 hr. TAT ☒ 5 day TAT

181301

**Send Results to:**
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762
(916) 939-7550, FAX (916) 939-7570
Attn.: Jeff Heglie

- [ ] Preliminary Fax Result
- [X] Sample Receipt/ Log-In Confirmation
- [X] Electronic Data Deliverables
- [X] Geotracker EDF
- [ ] Raw Data Deliverables
- [ ] Call with Verbal Results

| Lab ID (LAB USE ONLY) | Field Point ID | Sample ID | Date Collected | Time Collected | Matrix | Container | Number of Containers | Preservative | Requested Analysis: 8015B TPH d + TPH g | 8270C SVOCs | 8082 PCB Congeners | 8310 PAH | 6020B/7471 Metals | Temperature | | | | | | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 6 | MW-3,4-0816 05 | 8/16/05 | 1123 | GW | GB | 1 | C | X | | | | *2 | | | | | | | *1 Use Silica Gel Cleanup |
| | | MW-3,4-0816 05 | 8/16/05 | 1123 | GW | GB | 2 | C | | X | | | | | | | | | | *2 Metals, dissolved Field Filtered |
| 9 | | MW-3,4-0816 05 | 8/16/05 | 1123 | GW | GB | 1 | C | | | X | | | | | | | | | |
| | | MW-3,4-0816 05 | 8/16/05 | 1123 | GW | GB | 1 | C | | | | X | | | | | | | | |
| | | MW-3,4-0816 05 | 8/16/05 | 1123 | GW | P | 1 | HNO3 | | | | | X | | | | | | | |
| | | Temperature | 8/16/05 | — | W | P | 1 | C | | | | | | X | | | | | | one per cooler |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |

| Signature | Date | Time | Signature | Date | Time |
|---|---|---|---|---|---|
| Relinquished by: Thomas Carroll | 8/16/05 | 1430 | Relinquished by: | | |
| Received by: [signature] | 8/17/05 | 1200 | Received by: | | |
| Relinquished by: | | | Relinquished by: | | |
| Received by: | | | Received by: | | |

**Matrix:** W - Water; DW - Drinking Water; SW - Surface Water; GW - Ground Water; WW - Waste Water; RW - Reagent Water; S - Soil; SE - Sediment; SV - Soil Vapor; AA - Ambient Air; WS - Waste (Solid); O - Other
**Container:** GB - Glass Bottle (Amber); V - 40 ml VOA Vial; BT, ST, PT - Brass, Steel, and Plastic Tube; P - Polythethylene; GJ - Glass Jar, SC - Summa Canister; TD - Tedlar
**Preservative:** C - Cold; HS - Sulfuric Acid; HC - Hydrochloric Acid; HN - Nitric Acid; Na - Sodium Hydroxide; O - Other

Project Name and Location: Former Georgia-Pacific Sawmill
Project Number: 16017.01
Receiving Lab: Curtis & Tompkins
Sampled by: Thomas Carroll (Print Name) Thomas Carroll (Signature)

ORIGINAL – Laboratory (Return with Report) YELLOW - Laboratory PINK - Originator

Cooler Temp = 2.7°

# Acton • Mickelson • Environmental, Inc.

Chain of Custody and Analysis Request Form

Geotracker Global ID T0604591192

☒ Standard TAT ☐ RUSH TAT ☐ 24 hr. TAT ☐ 48 hr. TAT ☐ 72 hr. TAT ☒ 5 day TAT

Page ___ of ___ | Chain of Custody # 4190

181301

**Send Results to:**
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762
(916) 939-7550, FAX (916) 939-7570
Attn: Jeff Heglie

- [ ] Preliminary Fax Result
- [X] Sample Receipt/ Log-In Confirmation
- [X] Electronic Data Deliverables
- [X] Geotracker EDF
- [ ] Raw Data Deliverables
- [ ] Call with Verbal Results

| Lab ID (LAB USE ONLY) | Field Point ID | Sample ID | Date Collected | Time Collected | Matrix | Container | Number of Containers | Preservative | Requested Analysis: 5015B TPH-G + TPHD | 8270C SVOC's | 8082 PCB Congeners | 8310 PAH | 6020B/7471 Metals | Temperature | | | | | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | #1 | | | | #2 | | | | | | |
| | | MW-35-0816 05 | 8/16/05 | 1215 | GW | GB | 1 | C | X | | | | | | | | | | #1 use Silica Gel Cleanup |
| | | MW-35-0816 05 | 8/16/05 | 1215 | GW | GB | 2 | C | | X | | | | | | | | | #2 Metals, dissolved Field Filtered |
| | | MW-35-0816 05 | 8/16/05 | 1215 | GW | GB | 1 | C | | | X | | | | | | | | |
| -10 | | MW-35-0816 05 | 8/16/05 | 1215 | GW | GB | 1 | C | | | | X | | | | | | | |
| | | MW-35-0816 05 | 8/16/05 | 1215 | GW | P | 1 | HNO3 | | | | | X | | | | | | |
| | | Temperature | 8/16/05 | — | W | P | 1 | C | | | | | | X | | | | | one per cooler |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |

| Signature | Date | Time | Signature | Date | Time |
|---|---|---|---|---|---|
| Relinquished by: Thomas Carroll | 8/16/05 | 1430 | Relinquished by: | | |
| Received by: [signature] | 8/17/05 | 1200 | Received by: | | |
| Relinquished by: | | | Relinquished by: | | |
| Received by: | | | Received by: | | |

**Matrix:** W - Water; DW - Drinking Water; SW - Surface Water; GW - Ground Water; WW - Waste Water; RW - Reagent Water; S - Soil; SE - Sediment; SV - Soil Vapor; AA - Ambient Air; WS - Waste (Solid); O - Other
**Container:** GB - Glass Bottle (Amber); V - 40 ml VOA Vial; BT, ST, PT - Brass, Steel, and Plastic Tube; P - Polythethylene; GJ - Glass Jar, SC - Summa Canister; TD - Tedlar
**Preservative:** C - Cold; HS - Sulfuric Acid; HC - Hydrochloric Acid; HN - Nitric Acid; Na - Sodium Hydroxide; O - Other

Project Name and Location: Former Georgia-Pacific Sawmill
Project Number: 16017.01 Receiving Lab: Curtis & Tompkins
Sampled by: Thomas Carroll (Print Name) Thomas Carroll (Signature)

ORIGINAL – Laboratory (Return with Report) YELLOW - Laboratory PINK - Originator

Cooler Temp = 2°

16017.01/8

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

# A N A L Y T I C A L  R E P O R T

Prepared for:

Acton Mickelson Environmental
5175 Hillsdale Cir
El Dorado Hills, CA 95762

Date: 09-SEP-05
Lab Job Number: 181341
Project ID: 16017.01
Location: Former GA-Pacific Sawmill

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Reviewed by: _____
Project Manager

Reviewed by: _____
Operations Manager

RECEIVED
SEP 13 2005
By_____

This package may be reproduced only in its entirety.

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# CASE NARRATIVE

| | |
|---|---|
| Laboratory number: | **181341** |
| Client: | **Acton Mickelson Environmental** |
| Project: | **16017.01** |
| Location: | **Former GA-Pacific Sawmill** |
| Request Date: | **08/18/05** |
| Samples Received: | **08/18/05** |

This hardcopy data package contains sample and QC results for fifteen water samples, requested for the above referenced project on 08/18/05. The samples were received on ice and intact except for one amber liter for sample MW-5.5-081705 was received broken.

**TPH-Purgeables and/or BTXE by GC (EPA 8015B):**
No analytical problems were encountered.

**TPH-Extractables by GC (EPA 8015B):**
Diesel C10-C24 was detected between the MDL and the RL in the method blank for batch 105027; this analyte was not detected in samples at or above the RL. No other analytical problems were encountered.

**Volatile Organics by GC/MS (EPA 8260B):**
Chloroform was detected between the MDL and the RL in the method blank for batch 105049; this analyte was not detected in samples at or above the RL. No other analytical problems were encountered.

**Semivolatile Organics by GC/MS (EPA 8270C):**
No analytical problems were encountered.

**Polychlorinated Biphenyl Congeners (EPA 8082):**
Low surrogate recoveries were observed for TCMX in many samples; no associated target analytes were detected in the sample. The associated BZ#205 surrogate was acceptable. No other analytical problems were encountered.

**Polynuclear Aromatics by HPLC (EPA 8310):**
No analytical problems were encountered.

**Metals (EPA 6020 and EPA 7470A):**
Metals reprocessed 23-Sept-05 for lowest possible reporting limits. No analytical problems were encountered.



#
90.2

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Total Volatile Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8015B |
| Matrix: | Water | Batch#: | 104973 |
| Units: | ug/L | Received: | 08/18/05 |
| Diln Fac: | 1.000 | | |

| | | | |
|---|---|---|---|
| Field ID: | MW3.5-081605TB2 | Sampled: | 08/16/05 |
| Type: | SAMPLE | Analyzed: | 08/18/05 |
| Lab ID: | 181341-001 | | |

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | ND | 50 |

| Surrogate | %REC | Limits |
|---|---|---|
| Trifluorotoluene (FID) | 82 | 63-141 |
| Bromofluorobenzene (FID) | 98 | 79-139 |

| | | | |
|---|---|---|---|
| Field ID: | MW3.3-081605 | Sampled: | 08/16/05 |
| Type: | SAMPLE | Analyzed: | 08/18/05 |
| Lab ID: | 181341-002 | | |

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | ND | 50 |

| Surrogate | %REC | Limits |
|---|---|---|
| Trifluorotoluene (FID) | 96 | 63-141 |
| Bromofluorobenzene (FID) | 113 | 79-139 |

| | | | |
|---|---|---|---|
| Field ID: | MW3.4-081605 | Sampled: | 08/16/05 |
| Type: | SAMPLE | Analyzed: | 08/18/05 |
| Lab ID: | 181341-003 | | |

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | ND | 50 |

| Surrogate | %REC | Limits |
|---|---|---|
| Trifluorotoluene (FID) | 98 | 63-141 |
| Bromofluorobenzene (FID) | 119 | 79-139 |

| | | | |
|---|---|---|---|
| Field ID: | MW3.5-081605 | Sampled: | 08/16/05 |
| Type: | SAMPLE | Analyzed: | 08/18/05 |
| Lab ID: | 181341-004 | | |

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | ND | 50 |

| Surrogate | %REC | Limits |
|---|---|---|
| Trifluorotoluene (FID) | 90 | 63-141 |
| Bromofluorobenzene (FID) | 105 | 79-139 |

ND= Not Detected
RL= Reporting Limit



2.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Total Volatile Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8015B |
| Matrix: | Water | Batch#: | 104973 |
| Units: | ug/L | Received: | 08/18/05 |
| Diln Fac: | 1.000 | | |

| | | | |
|---|---|---|---|
| Field ID: | MW3.6-081605 | Sampled: | 08/16/05 |
| Type: | SAMPLE | Analyzed: | 08/18/05 |
| Lab ID: | 181341-005 | | |

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | ND | 50 |

| Surrogate | %REC | Limits |
|---|---|---|
| Trifluorotoluene (FID) | 90 | 63-141 |
| Bromofluorobenzene (FID) | 105 | 79-139 |

| | | | |
|---|---|---|---|
| Field ID: | MW5.2-081605 | Sampled: | 08/16/05 |
| Type: | SAMPLE | Analyzed: | 08/18/05 |
| Lab ID: | 181341-006 | | |

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | ND | 50 |

| Surrogate | %REC | Limits |
|---|---|---|
| Trifluorotoluene (FID) | 97 | 63-141 |
| Bromofluorobenzene (FID) | 117 | 79-139 |

| | | | |
|---|---|---|---|
| Field ID: | MWDUP2-081605 | Sampled: | 08/16/05 |
| Type: | SAMPLE | Analyzed: | 08/18/05 |
| Lab ID: | 181341-007 | | |

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | ND | 50 |

| Surrogate | %REC | Limits |
|---|---|---|
| Trifluorotoluene (FID) | 96 | 63-141 |
| Bromofluorobenzene (FID) | 112 | 79-139 |

| | | | |
|---|---|---|---|
| Field ID: | MW5.3-081605 | Sampled: | 08/16/05 |
| Type: | SAMPLE | Analyzed: | 08/18/05 |
| Lab ID: | 181341-008 | | |

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | ND | 50 |

| Surrogate | %REC | Limits |
|---|---|---|
| Trifluorotoluene (FID) | 97 | 63-141 |
| Bromofluorobenzene (FID) | 113 | 79-139 |

ND= Not Detected
RL= Reporting Limit



2.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Total Volatile Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8015B |
| Matrix: | Water | Batch#: | 104973 |
| Units: | ug/L | Received: | 08/18/05 |
| Diln Fac: | 1.000 | | |

| | | | |
|---|---|---|---|
| Field ID: | MW5.4-081605 | Sampled: | 08/16/05 |
| Type: | SAMPLE | Analyzed: | 08/19/05 |
| Lab ID: | 181341-009 | | |

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | ND | 50 |

| Surrogate | %REC | Limits |
|---|---|---|
| Trifluorotoluene (FID) | 100 | 63-141 |
| Bromofluorobenzene (FID) | 117 | 79-139 |

| | | | |
|---|---|---|---|
| Field ID: | MW3.7-081705 | Sampled: | 08/17/05 |
| Type: | SAMPLE | Analyzed: | 08/19/05 |
| Lab ID: | 181341-010 | | |

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | ND | 50 |

| Surrogate | %REC | Limits |
|---|---|---|
| Trifluorotoluene (FID) | 98 | 63-141 |
| Bromofluorobenzene (FID) | 115 | 79-139 |

| | | | |
|---|---|---|---|
| Field ID: | MW3.8-081705 | Sampled: | 08/17/05 |
| Type: | SAMPLE | Analyzed: | 08/19/05 |
| Lab ID: | 181341-011 | | |

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | ND | 50 |

| Surrogate | %REC | Limits |
|---|---|---|
| Trifluorotoluene (FID) | 98 | 63-141 |
| Bromofluorobenzene (FID) | 118 | 79-139 |

| | | | |
|---|---|---|---|
| Field ID: | MW3.9-081705 | Sampled: | 08/17/05 |
| Type: | SAMPLE | Analyzed: | 08/19/05 |
| Lab ID: | 181341-012 | | |

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | ND | 50 |

| Surrogate | %REC | Limits |
|---|---|---|
| Trifluorotoluene (FID) | 93 | 63-141 |
| Bromofluorobenzene (FID) | 108 | 79-139 |

ND= Not Detected
RL= Reporting Limit



2.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Total Volatile Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8015B |
| Matrix: | Water | Batch#: | 104973 |
| Units: | ug/L | Received: | 08/18/05 |
| Diln Fac: | 1.000 | | |

| | | | |
|---|---|---|---|
| Field ID: | MW5.5-081705 | Sampled: | 08/17/05 |
| Type: | SAMPLE | Analyzed: | 08/19/05 |
| Lab ID: | 181341-013 | | |

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | ND | 50 |

| Surrogate | %REC | Limits |
|---|---|---|
| Trifluorotoluene (FID) | 86 | 63-141 |
| Bromofluorobenzene (FID) | 100 | 79-139 |

| | | | |
|---|---|---|---|
| Field ID: | MW5.6-081705 | Sampled: | 08/17/05 |
| Type: | SAMPLE | Analyzed: | 08/19/05 |
| Lab ID: | 181341-014 | | |

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | ND | 50 |

| Surrogate | %REC | Limits |
|---|---|---|
| Trifluorotoluene (FID) | 98 | 63-141 |
| Bromofluorobenzene (FID) | 115 | 79-139 |

| | | | |
|---|---|---|---|
| Field ID: | MW5.7-081705 | Sampled: | 08/17/05 |
| Type: | SAMPLE | Analyzed: | 08/19/05 |
| Lab ID: | 181341-015 | | |

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | ND | 50 |

| Surrogate | %REC | Limits |
|---|---|---|
| Trifluorotoluene (FID) | 88 | 63-141 |
| Bromofluorobenzene (FID) | 108 | 79-139 |

| | | | |
|---|---|---|---|
| Type: | BLANK | Analyzed: | 08/18/05 |
| Lab ID: | QC305621 | | |

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | ND | 50 |

| Surrogate | %REC | Limits |
|---|---|---|
| Trifluorotoluene (FID) | 93 | 63-141 |
| Bromofluorobenzene (FID) | 106 | 79-139 |

ND= Not Detected
RL= Reporting Limit



2.0

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Analytical Laboratories, Since 1878

Batch QC Report

## Total Volatile Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8015B |
| Type: | LCS | Diln Fac: | 1.000 |
| Lab ID: | QC305622 | Batch#: | 104973 |
| Matrix: | Water | Analyzed: | 08/18/05 |
| Units: | ug/L | | |

| Analyte | Spiked | Result | %REC | Limits |
|---|---|---|---|---|
| Gasoline C7-C12 | 2,000 | 1,968 | 98 | 80-120 |

| Surrogate | %REC | Limits |
|---|---|---|
| Trifluorotoluene (FID) | 103 | 63-141 |
| Bromofluorobenzene (FID) | 109 | 79-139 |



3.0

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Batch QC Report

## Total Volatile Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8015B |
| Field ID: | MW5.2-081605 | Batch#: | 104973 |
| MSS Lab ID: | 181341-006 | Sampled: | 08/16/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Analyzed: | 08/19/05 |
| Diln Fac: | 1.000 | | |

Type: MS Lab ID: QC305623

| Analyte | MSS Result | Spiked | Result | %REC | Limits |
|---|---|---|---|---|---|
| Gasoline C7-C12 | 18.09 | 2,000 | 2,050 | 102 | 80-120 |

| Surrogate | %REC | Limits |
|---|---|---|
| Trifluorotoluene (FID) | 119 | 63-141 |
| Bromofluorobenzene (FID) | 120 | 79-139 |

Type: MSD Lab ID: QC305624

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|
| Gasoline C7-C12 | 2,000 | 2,063 | 102 | 80-120 | 1 | 20 |

| Surrogate | %REC | Limits |
|---|---|---|
| Trifluorotoluene (FID) | 113 | 63-141 |
| Bromofluorobenzene (FID) | 115 | 79-139 |

RPD= Relative Percent Difference



4.0

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# Total Extractable Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Analysis: | EPA 8015B |
| Project#: | 16017.01 | | |
| Matrix: | Water | Diln Fac: | 1.000 |
| Units: | ug/L | Received: | 08/18/05 |

| | | | |
|---|---|---|---|
| Field ID: | MW3.6-081605 | Prepared: | 08/21/05 |
| Type: | SAMPLE | Analyzed: | 08/24/05 |
| Lab ID: | 181341-005 | Prep: | EPA 3520C |
| Batch#: | 105027 | Cleanup Method: | EPA 3630C |
| Sampled: | 08/16/05 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Diesel C10-C24 | ND | 50 | 13 |
| Motor Oil C24-C36 | ND | 300 | 33 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 94 | 55-143 |

| | | | |
|---|---|---|---|
| Field ID: | MW5.2-081605 | Prepared: | 08/21/05 |
| Type: | SAMPLE | Analyzed: | 08/24/05 |
| Lab ID: | 181341-006 | Prep: | EPA 3520C |
| Batch#: | 105027 | Cleanup Method: | EPA 3630C |
| Sampled: | 08/16/05 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Diesel C10-C24 | ND | 50 | 13 |
| Motor Oil C24-C36 | ND | 300 | 33 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 92 | 55-143 |

| | | | |
|---|---|---|---|
| Field ID: | MWDUP2-081605 | Prepared: | 08/21/05 |
| Type: | SAMPLE | Analyzed: | 08/24/05 |
| Lab ID: | 181341-007 | Prep: | EPA 3520C |
| Batch#: | 105027 | Cleanup Method: | EPA 3630C |
| Sampled: | 08/16/05 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Diesel C10-C24 | ND | 50 | 13 |
| Motor Oil C24-C36 | ND | 300 | 33 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 94 | 55-143 |

J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



69.0

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# Total Extractable Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Analysis: | EPA 8015B |
| Project#: | 16017.01 | | |
| Matrix: | Water | Diln Fac: | 1.000 |
| Units: | ug/L | Received: | 08/18/05 |

| | | | |
|---|---|---|---|
| Field ID: | MW5.3-081605 | Prepared: | 08/22/05 |
| Type: | SAMPLE | Analyzed: | 08/23/05 |
| Lab ID: | 181341-008 | Prep: | EPA 3510C |
| Batch#: | 105058 | Cleanup Method: | EPA 3630C |
| Sampled: | 08/16/05 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Diesel C10-C24 | ND | 50 | 34 |
| Motor Oil C24-C36 | ND | 300 | 55 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 90 | 55-143 |

| | | | |
|---|---|---|---|
| Field ID: | MW5.4-081605 | Prepared: | 08/21/05 |
| Type: | SAMPLE | Analyzed: | 08/24/05 |
| Lab ID: | 181341-009 | Prep: | EPA 3520C |
| Batch#: | 105027 | Cleanup Method: | EPA 3630C |
| Sampled: | 08/16/05 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Diesel C10-C24 | ND | 50 | 13 |
| Motor Oil C24-C36 | ND | 300 | 33 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 89 | 55-143 |

| | | | |
|---|---|---|---|
| Field ID: | MW3.7-081705 | Prepared: | 08/21/05 |
| Type: | SAMPLE | Analyzed: | 08/24/05 |
| Lab ID: | 181341-010 | Prep: | EPA 3520C |
| Batch#: | 105027 | Cleanup Method: | EPA 3630C |
| Sampled: | 08/17/05 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Diesel C10-C24 | ND | 50 | 13 |
| Motor Oil C24-C36 | ND | 300 | 33 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 101 | 55-143 |

J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



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# Total Extractable Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Analysis: | EPA 8015B |
| Project#: | 16017.01 | | |
| Matrix: | Water | Diln Fac: | 1.000 |
| Units: | ug/L | Received: | 08/18/05 |

| | | | |
|---|---|---|---|
| Field ID: | MW3.8-081705 | Prepared: | 08/21/05 |
| Type: | SAMPLE | Analyzed: | 08/24/05 |
| Lab ID: | 181341-011 | Prep: | EPA 3520C |
| Batch#: | 105027 | Cleanup Method: | EPA 3630C |
| Sampled: | 08/17/05 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Diesel C10-C24 | 20 J Y | 50 | 13 |
| Motor Oil C24-C36 | ND | 300 | 33 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 94 | 55-143 |

| | | | |
|---|---|---|---|
| Field ID: | MW3.9-081705 | Prepared: | 08/21/05 |
| Type: | SAMPLE | Analyzed: | 08/24/05 |
| Lab ID: | 181341-012 | Prep: | EPA 3520C |
| Batch#: | 105027 | Cleanup Method: | EPA 3630C |
| Sampled: | 08/17/05 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Diesel C10-C24 | ND | 50 | 16 |
| Motor Oil C24-C36 | ND | 300 | 55 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 92 | 55-143 |

| | | | |
|---|---|---|---|
| Field ID: | MW5.5-081705 | Prepared: | 08/21/05 |
| Type: | SAMPLE | Analyzed: | 08/24/05 |
| Lab ID: | 181341-013 | Prep: | EPA 3520C |
| Batch#: | 105027 | Cleanup Method: | EPA 3630C |
| Sampled: | 08/17/05 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Diesel C10-C24 | ND | 50 | 16 |
| Motor Oil C24-C36 | ND | 300 | 55 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 77 | 55-143 |

J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



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# Total Extractable Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Analysis: | EPA 8015B |
| Project#: | 16017.01 | | |
| Matrix: | Water | Diln Fac: | 1.000 |
| Units: | ug/L | Received: | 08/18/05 |

| | | | |
|---|---|---|---|
| Field ID: | MW5.6-081705 | Prepared: | 08/21/05 |
| Type: | SAMPLE | Analyzed: | 08/24/05 |
| Lab ID: | 181341-014 | Prep: | EPA 3520C |
| Batch#: | 105027 | Cleanup Method: | EPA 3630C |
| Sampled: | 08/17/05 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Diesel C10-C24 | ND | 50 | 16 |
| Motor Oil C24-C36 | ND | 300 | 55 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 89 | 55-143 |

| | | | |
|---|---|---|---|
| Field ID: | MW5.7-081705 | Prepared: | 08/21/05 |
| Type: | SAMPLE | Analyzed: | 08/24/05 |
| Lab ID: | 181341-015 | Prep: | EPA 3520C |
| Batch#: | 105027 | Cleanup Method: | EPA 3630C |
| Sampled: | 08/17/05 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Diesel C10-C24 | ND | 50 | 16 |
| Motor Oil C24-C36 | ND | 300 | 55 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 90 | 55-143 |

| | | | |
|---|---|---|---|
| Type: | BLANK | Analyzed: | 08/24/05 |
| Lab ID: | QC305831 | Prep: | EPA 3520C |
| Batch#: | 105027 | Cleanup Method: | EPA 3630C |
| Prepared: | 08/21/05 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Diesel C10-C24 | 29 J | 50 | 13 |
| Motor Oil C24-C36 | ND | 300 | 33 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 104 | 55-143 |

J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



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# Total Extractable Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Analysis: | EPA 8015B |
| Project#: | 16017.01 | | |
| Matrix: | Water | Diln Fac: | 1.000 |
| Units: | ug/L | Received: | 08/18/05 |

| | | | |
|---|---|---|---|
| Type: | BLANK | Analyzed: | 08/23/05 |
| Lab ID: | QC305967 | Prep: | EPA 3510C |
| Batch#: | 105058 | Cleanup Method: | EPA 3630C |
| Prepared: | 08/22/05 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Diesel C10-C24 | ND | 50 | 34 |
| Motor Oil C24-C36 | ND | 300 | 55 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 83 | 55-143 |

J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



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Batch QC Report

## Total Extractable Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8015B |
| Type: | LCS | Diln Fac: | 1.000 |
| Lab ID: | QC305832 | Batch#: | 105027 |
| Matrix: | Water | Prepared: | 08/21/05 |
| Units: | ug/L | Analyzed: | 08/24/05 |

Cleanup Method: EPA 3630C

| Analyte | Spiked | Result | %REC | Limits |
|---|---|---|---|---|
| Diesel C10-C24 | 2,500 | 1,946 | 78 | 50-133 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 90 | 55-143 |



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Batch QC Report

## Total Extractable Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8015B |
| Field ID: | MW5.2-081605 | Batch#: | 105027 |
| MSS Lab ID: | 181341-006 | Sampled: | 08/16/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Prepared: | 08/21/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/24/05 |

Type: MS
Lab ID: QC305833
Cleanup Method: EPA 3630C

| Analyte | MSS Result | Spiked | Result | %REC | Limits |
|---|---|---|---|---|---|
| Diesel C10-C24 | <12.82 | 2,500 | 1,781 | 71 | 42-127 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 83 | 55-143 |

Type: MSD
Lab ID: QC305834
Cleanup Method: EPA 3630C

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|
| Diesel C10-C24 | 2,500 | 1,817 | 73 | 42-127 | 2 | 45 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 83 | 55-143 |

RPD= Relative Percent Difference



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Batch QC Report

## Total Extractable Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3510C |
| Project#: | 16017.01 | Analysis: | EPA 8015B |
| Matrix: | Water | Batch#: | 105058 |
| Units: | ug/L | Prepared: | 08/22/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/23/05 |

Type: BS
Lab ID: QC305968
Cleanup Method: EPA 3630C

| Analyte | Spiked | Result | %REC | Limits |
|---|---|---|---|---|
| Diesel C10-C24 | 2,500 | 1,898 | 76 | 50-133 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 75 | 55-143 |

Type: BSD
Lab ID: QC305969
Cleanup Method: EPA 3630C

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|
| Diesel C10-C24 | 2,500 | 2,509 | 100 | 50-133 | 28 | 40 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 93 | 55-143 |

RPD= Relative Percent Difference



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# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Field ID: | MW3.5-081605TB2 | Batch#: | 105042 |
| Lab ID: | 181341-001 | Sampled: | 08/16/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Analyzed: | 08/22/05 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Freon 12 | ND | 1.0 | 0.2 |
| Chloromethane | ND | 1.0 | 0.2 |
| Vinyl Chloride | ND | 0.5 | 0.2 |
| Bromomethane | ND | 1.0 | 0.2 |
| Chloroethane | ND | 1.0 | 0.2 |
| Ethanol | ND | 1,000 | 7.9 |
| Trichlorofluoromethane | ND | 1.0 | 0.09 |
| Isopropanol | ND | 100 | 1.4 |
| Acetone | ND | 10 | 0.3 |
| Freon 113 | ND | 5.0 | 0.1 |
| 1,1-Dichloroethene | ND | 0.5 | 0.09 |
| Methylene Chloride | ND | 10 | 0.1 |
| Carbon Disulfide | ND | 0.5 | 0.06 |
| MTBE | ND | 0.5 | 0.05 |
| trans-1,2-Dichloroethene | ND | 0.5 | 0.1 |
| Vinyl Acetate | ND | 10 | 0.08 |
| 1,1-Dichloroethane | ND | 0.5 | 0.06 |
| 2-Butanone | ND | 10 | 0.2 |
| cis-1,2-Dichloroethene | ND | 0.5 | 0.1 |
| 2,2-Dichloropropane | ND | 0.5 | 0.08 |
| Chloroform | ND | 0.5 | 0.03 |
| Bromochloromethane | ND | 0.5 | 0.2 |
| 1,1,1-Trichloroethane | ND | 0.5 | 0.05 |
| 1,1-Dichloropropene | ND | 0.5 | 0.05 |
| Carbon Tetrachloride | ND | 0.5 | 0.1 |
| 1,2-Dichloroethane | ND | 0.5 | 0.06 |
| Benzene | ND | 0.5 | 0.04 |
| Trichloroethene | ND | 0.5 | 0.07 |
| 1,2-Dichloropropane | ND | 0.5 | 0.07 |
| Bromodichloromethane | ND | 0.5 | 0.08 |
| Dibromomethane | ND | 0.5 | 0.06 |
| 4-Methyl-2-Pentanone | ND | 10 | 0.09 |
| cis-1,3-Dichloropropene | ND | 0.5 | 0.04 |
| Toluene | ND | 0.5 | 0.06 |
| trans-1,3-Dichloropropene | ND | 0.5 | 0.07 |
| 1,1,2-Trichloroethane | ND | 0.5 | 0.09 |
| 2-Hexanone | ND | 10 | 0.1 |
| 1,3-Dichloropropane | ND | 0.5 | 0.05 |
| Tetrachloroethene | ND | 0.5 | 0.09 |
| Dibromochloromethane | ND | 0.5 | 0.08 |
| 1,2-Dibromoethane | ND | 0.5 | 0.05 |
| Chlorobenzene | ND | 0.5 | 0.08 |
| 1,1,1,2-Tetrachloroethane | ND | 0.5 | 0.05 |
| Ethylbenzene | ND | 0.5 | 0.06 |
| m,p-Xylenes | ND | 0.5 | 0.1 |
| o-Xylene | ND | 0.5 | 0.1 |
| Styrene | ND | 0.5 | 0.07 |
| Bromoform | ND | 1.0 | 0.08 |
| Isopropylbenzene | ND | 0.5 | 0.05 |
| 1,1,2,2-Tetrachloroethane | ND | 0.5 | 0.07 |
| 1,2,3-Trichloropropane | ND | 0.5 | 0.2 |
| Propylbenzene | ND | 0.5 | 0.05 |
| Bromobenzene | ND | 0.5 | 0.07 |
| 1,3,5-Trimethylbenzene | ND | 0.5 | 0.08 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



5.0

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# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Field ID: | MW3.5-081605TB2 | Batch#: | 105042 |
| Lab ID: | 181341-001 | Sampled: | 08/16/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Analyzed: | 08/22/05 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| 2-Chlorotoluene | ND | 0.5 | 0.05 |
| 4-Chlorotoluene | ND | 0.5 | 0.03 |
| tert-Butylbenzene | ND | 0.5 | 0.04 |
| 1,2,4-Trimethylbenzene | ND | 0.5 | 0.08 |
| sec-Butylbenzene | ND | 0.5 | 0.04 |
| para-Isopropyl Toluene | ND | 0.5 | 0.06 |
| 1,3-Dichlorobenzene | ND | 0.5 | 0.07 |
| 1,4-Dichlorobenzene | ND | 0.5 | 0.09 |
| n-Butylbenzene | ND | 0.5 | 0.05 |
| 1,2-Dichlorobenzene | ND | 0.5 | 0.07 |
| 1,2-Dibromo-3-Chloropropane | ND | 2.0 | 0.3 |
| 1,2,4-Trichlorobenzene | ND | 0.5 | 0.2 |
| Hexachlorobutadiene | ND | 0.5 | 0.2 |
| Naphthalene | ND | 2.0 | 0.2 |
| 1,2,3-Trichlorobenzene | ND | 0.5 | 0.2 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 108 | 80-120 |
| 1,2-Dichloroethane-d4 | 114 | 80-122 |
| Toluene-d8 | 102 | 80-120 |
| Bromofluorobenzene | 100 | 80-124 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



5.0

Curtis & Tompkins, Ltd.
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# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Field ID: | MW3.3-081605 | Batch#: | 105042 |
| Lab ID: | 181341-002 | Sampled: | 08/16/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Analyzed: | 08/22/05 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Freon 12 | ND | 1.0 | 0.2 |
| Chloromethane | ND | 1.0 | 0.2 |
| Vinyl Chloride | ND | 0.5 | 0.2 |
| Bromomethane | ND | 1.0 | 0.2 |
| Chloroethane | ND | 1.0 | 0.2 |
| Ethanol | ND | 1,000 | 7.9 |
| Trichlorofluoromethane | ND | 1.0 | 0.09 |
| Isopropanol | ND | 100 | 1.4 |
| Acetone | ND | 10 | 0.3 |
| Freon 113 | 7.0 | 5.0 | 0.1 |
| 1,1-Dichloroethene | 0.3 J | 0.5 | 0.09 |
| Methylene Chloride | ND | 10 | 0.1 |
| Carbon Disulfide | 0.2 J | 0.5 | 0.06 |
| MTBE | ND | 0.5 | 0.05 |
| trans-1,2-Dichloroethene | ND | 0.5 | 0.1 |
| Vinyl Acetate | ND | 10 | 0.08 |
| 1,1-Dichloroethane | 1.1 | 0.5 | 0.06 |
| 2-Butanone | ND | 10 | 0.2 |
| cis-1,2-Dichloroethene | 0.5 J | 0.5 | 0.1 |
| 2,2-Dichloropropane | ND | 0.5 | 0.08 |
| Chloroform | 0.3 J | 0.5 | 0.03 |
| Bromochloromethane | ND | 0.5 | 0.2 |
| 1,1,1-Trichloroethane | 7.5 | 0.5 | 0.05 |
| 1,1-Dichloropropene | ND | 0.5 | 0.05 |
| Carbon Tetrachloride | ND | 0.5 | 0.1 |
| 1,2-Dichloroethane | ND | 0.5 | 0.06 |
| Benzene | ND | 0.5 | 0.04 |
| Trichloroethene | 0.4 J | 0.5 | 0.07 |
| 1,2-Dichloropropane | ND | 0.5 | 0.07 |
| Bromodichloromethane | ND | 0.5 | 0.08 |
| Dibromomethane | ND | 0.5 | 0.06 |
| 4-Methyl-2-Pentanone | ND | 10 | 0.09 |
| cis-1,3-Dichloropropene | ND | 0.5 | 0.04 |
| Toluene | ND | 0.5 | 0.06 |
| trans-1,3-Dichloropropene | ND | 0.5 | 0.07 |
| 1,1,2-Trichloroethane | ND | 0.5 | 0.09 |
| 2-Hexanone | ND | 10 | 0.1 |
| 1,3-Dichloropropane | ND | 0.5 | 0.05 |
| Tetrachloroethene | 1.8 | 0.5 | 0.09 |
| Dibromochloromethane | ND | 0.5 | 0.08 |
| 1,2-Dibromoethane | ND | 0.5 | 0.05 |
| Chlorobenzene | ND | 0.5 | 0.08 |
| 1,1,1,2-Tetrachloroethane | ND | 0.5 | 0.05 |
| Ethylbenzene | ND | 0.5 | 0.06 |
| m,p-Xylenes | ND | 0.5 | 0.1 |
| o-Xylene | ND | 0.5 | 0.1 |
| Styrene | ND | 0.5 | 0.07 |
| Bromoform | ND | 1.0 | 0.08 |
| Isopropylbenzene | ND | 0.5 | 0.05 |
| 1,1,2,2-Tetrachloroethane | ND | 0.5 | 0.07 |
| 1,2,3-Trichloropropane | ND | 0.5 | 0.2 |
| Propylbenzene | ND | 0.5 | 0.05 |
| Bromobenzene | ND | 0.5 | 0.07 |

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



6.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Field ID: | MW3.3-081605 | Batch#: | 105042 |
| Lab ID: | 181341-002 | Sampled: | 08/16/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Analyzed: | 08/22/05 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| 1,3,5-Trimethylbenzene | ND | 0.5 | 0.08 |
| 2-Chlorotoluene | ND | 0.5 | 0.05 |
| 4-Chlorotoluene | ND | 0.5 | 0.03 |
| tert-Butylbenzene | ND | 0.5 | 0.04 |
| 1,2,4-Trimethylbenzene | ND | 0.5 | 0.08 |
| sec-Butylbenzene | ND | 0.5 | 0.04 |
| para-Isopropyl Toluene | ND | 0.5 | 0.06 |
| 1,3-Dichlorobenzene | ND | 0.5 | 0.07 |
| 1,4-Dichlorobenzene | ND | 0.5 | 0.09 |
| n-Butylbenzene | ND | 0.5 | 0.05 |
| 1,2-Dichlorobenzene | ND | 0.5 | 0.07 |
| 1,2-Dibromo-3-Chloropropane | ND | 2.0 | 0.3 |
| 1,2,4-Trichlorobenzene | ND | 0.5 | 0.2 |
| Hexachlorobutadiene | ND | 0.5 | 0.2 |
| Naphthalene | ND | 2.0 | 0.2 |
| 1,2,3-Trichlorobenzene | ND | 0.5 | 0.2 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 108 | 80-120 |
| 1,2-Dichloroethane-d4 | 107 | 80-122 |
| Toluene-d8 | 105 | 80-120 |
| Bromofluorobenzene | 96 | 80-124 |

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



6.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Field ID: | MW3.4-081605 | Batch#: | 105042 |
| Lab ID: | 181341-003 | Sampled: | 08/16/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Analyzed: | 08/22/05 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Freon 12 | ND | 1.0 | 0.2 |
| Chloromethane | ND | 1.0 | 0.2 |
| Vinyl Chloride | ND | 0.5 | 0.2 |
| Bromomethane | ND | 1.0 | 0.2 |
| Chloroethane | ND | 1.0 | 0.2 |
| Ethanol | ND | 1,000 | 7.9 |
| Trichlorofluoromethane | ND | 1.0 | 0.09 |
| Isopropanol | 3.3 J | 100 | 1.4 |
| Acetone | 3.8 J | 10 | 0.3 |
| Freon 113 | ND | 5.0 | 0.1 |
| 1,1-Dichloroethene | ND | 0.5 | 0.09 |
| Methylene Chloride | ND | 10 | 0.1 |
| Carbon Disulfide | ND | 0.5 | 0.06 |
| MTBE | ND | 0.5 | 0.05 |
| trans-1,2-Dichloroethene | ND | 0.5 | 0.1 |
| Vinyl Acetate | ND | 10 | 0.08 |
| 1,1-Dichloroethane | ND | 0.5 | 0.06 |
| 2-Butanone | ND | 10 | 0.2 |
| cis-1,2-Dichloroethene | ND | 0.5 | 0.1 |
| 2,2-Dichloropropane | ND | 0.5 | 0.08 |
| Chloroform | ND | 0.5 | 0.03 |
| Bromochloromethane | ND | 0.5 | 0.2 |
| 1,1,1-Trichloroethane | ND | 0.5 | 0.05 |
| 1,1-Dichloropropene | ND | 0.5 | 0.05 |
| Carbon Tetrachloride | ND | 0.5 | 0.1 |
| 1,2-Dichloroethane | ND | 0.5 | 0.06 |
| Benzene | ND | 0.5 | 0.04 |
| Trichloroethene | ND | 0.5 | 0.07 |
| 1,2-Dichloropropane | ND | 0.5 | 0.07 |
| Bromodichloromethane | ND | 0.5 | 0.08 |
| Dibromomethane | ND | 0.5 | 0.06 |
| 4-Methyl-2-Pentanone | ND | 10 | 0.09 |
| cis-1,3-Dichloropropene | ND | 0.5 | 0.04 |
| Toluene | ND | 0.5 | 0.06 |
| trans-1,3-Dichloropropene | ND | 0.5 | 0.07 |
| 1,1,2-Trichloroethane | ND | 0.5 | 0.09 |
| 2-Hexanone | ND | 10 | 0.1 |
| 1,3-Dichloropropane | ND | 0.5 | 0.05 |
| Tetrachloroethene | ND | 0.5 | 0.09 |
| Dibromochloromethane | ND | 0.5 | 0.08 |
| 1,2-Dibromoethane | ND | 0.5 | 0.05 |
| Chlorobenzene | ND | 0.5 | 0.08 |
| 1,1,1,2-Tetrachloroethane | ND | 0.5 | 0.05 |
| Ethylbenzene | ND | 0.5 | 0.06 |
| m,p-Xylenes | ND | 0.5 | 0.1 |
| o-Xylene | ND | 0.5 | 0.1 |
| Styrene | ND | 0.5 | 0.07 |
| Bromoform | ND | 1.0 | 0.08 |
| Isopropylbenzene | ND | 0.5 | 0.05 |
| 1,1,2,2-Tetrachloroethane | ND | 0.5 | 0.07 |
| 1,2,3-Trichloropropane | ND | 0.5 | 0.2 |
| Propylbenzene | ND | 0.5 | 0.05 |
| Bromobenzene | ND | 0.5 | 0.07 |

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



7.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Field ID: | MW3.4-081605 | Batch#: | 105042 |
| Lab ID: | 181341-003 | Sampled: | 08/16/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Analyzed: | 08/22/05 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| 1,3,5-Trimethylbenzene | ND | 0.5 | 0.08 |
| 2-Chlorotoluene | ND | 0.5 | 0.05 |
| 4-Chlorotoluene | ND | 0.5 | 0.03 |
| tert-Butylbenzene | ND | 0.5 | 0.04 |
| 1,2,4-Trimethylbenzene | ND | 0.5 | 0.08 |
| sec-Butylbenzene | ND | 0.5 | 0.04 |
| para-Isopropyl Toluene | ND | 0.5 | 0.06 |
| 1,3-Dichlorobenzene | ND | 0.5 | 0.07 |
| 1,4-Dichlorobenzene | ND | 0.5 | 0.09 |
| n-Butylbenzene | ND | 0.5 | 0.05 |
| 1,2-Dichlorobenzene | ND | 0.5 | 0.07 |
| 1,2-Dibromo-3-Chloropropane | ND | 2.0 | 0.3 |
| 1,2,4-Trichlorobenzene | ND | 0.5 | 0.2 |
| Hexachlorobutadiene | ND | 0.5 | 0.2 |
| Naphthalene | ND | 2.0 | 0.2 |
| 1,2,3-Trichlorobenzene | ND | 0.5 | 0.2 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 102 | 80-120 |
| 1,2-Dichloroethane-d4 | 104 | 80-122 |
| Toluene-d8 | 109 | 80-120 |
| Bromofluorobenzene | 99 | 80-124 |

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



7.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Field ID: | MW3.5-081605 | Batch#: | 105042 |
| Lab ID: | 181341-004 | Sampled: | 08/16/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Analyzed: | 08/22/05 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Freon 12 | ND | 1.0 | 0.2 |
| Chloromethane | ND | 1.0 | 0.2 |
| Vinyl Chloride | ND | 0.5 | 0.2 |
| Bromomethane | ND | 1.0 | 0.2 |
| Chloroethane | ND | 1.0 | 0.2 |
| Ethanol | ND | 1,000 | 7.9 |
| Trichlorofluoromethane | ND | 1.0 | 0.09 |
| Isopropanol | ND | 100 | 1.4 |
| Acetone | ND | 10 | 0.3 |
| Freon 113 | ND | 5.0 | 0.1 |
| 1,1-Dichloroethene | ND | 0.5 | 0.09 |
| Methylene Chloride | ND | 10 | 0.1 |
| Carbon Disulfide | ND | 0.5 | 0.06 |
| MTBE | ND | 0.5 | 0.05 |
| trans-1,2-Dichloroethene | ND | 0.5 | 0.1 |
| Vinyl Acetate | ND | 10 | 0.08 |
| 1,1-Dichloroethane | ND | 0.5 | 0.06 |
| 2-Butanone | ND | 10 | 0.2 |
| cis-1,2-Dichloroethene | ND | 0.5 | 0.1 |
| 2,2-Dichloropropane | ND | 0.5 | 0.08 |
| Chloroform | ND | 0.5 | 0.03 |
| Bromochloromethane | ND | 0.5 | 0.2 |
| 1,1,1-Trichloroethane | ND | 0.5 | 0.05 |
| 1,1-Dichloropropene | ND | 0.5 | 0.05 |
| Carbon Tetrachloride | ND | 0.5 | 0.1 |
| 1,2-Dichloroethane | ND | 0.5 | 0.06 |
| Benzene | ND | 0.5 | 0.04 |
| Trichloroethene | ND | 0.5 | 0.07 |
| 1,2-Dichloropropane | ND | 0.5 | 0.07 |
| Bromodichloromethane | ND | 0.5 | 0.08 |
| Dibromomethane | ND | 0.5 | 0.06 |
| 4-Methyl-2-Pentanone | ND | 10 | 0.09 |
| cis-1,3-Dichloropropene | ND | 0.5 | 0.04 |
| Toluene | ND | 0.5 | 0.06 |
| trans-1,3-Dichloropropene | ND | 0.5 | 0.07 |
| 1,1,2-Trichloroethane | ND | 0.5 | 0.09 |
| 2-Hexanone | ND | 10 | 0.1 |
| 1,3-Dichloropropane | ND | 0.5 | 0.05 |
| Tetrachloroethene | ND | 0.5 | 0.09 |
| Dibromochloromethane | ND | 0.5 | 0.08 |
| 1,2-Dibromoethane | ND | 0.5 | 0.05 |
| Chlorobenzene | ND | 0.5 | 0.08 |
| 1,1,1,2-Tetrachloroethane | ND | 0.5 | 0.05 |
| Ethylbenzene | ND | 0.5 | 0.06 |
| m,p-Xylenes | ND | 0.5 | 0.1 |
| o-Xylene | ND | 0.5 | 0.1 |
| Styrene | ND | 0.5 | 0.07 |
| Bromoform | ND | 1.0 | 0.08 |
| Isopropylbenzene | ND | 0.5 | 0.05 |
| 1,1,2,2-Tetrachloroethane | ND | 0.5 | 0.07 |
| 1,2,3-Trichloropropane | ND | 0.5 | 0.2 |
| Propylbenzene | ND | 0.5 | 0.05 |
| Bromobenzene | ND | 0.5 | 0.07 |
| 1,3,5-Trimethylbenzene | ND | 0.5 | 0.08 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



8.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Field ID: | MW3.5-081605 | Batch#: | 105042 |
| Lab ID: | 181341-004 | Sampled: | 08/16/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Analyzed: | 08/22/05 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| 2-Chlorotoluene | ND | 0.5 | 0.05 |
| 4-Chlorotoluene | ND | 0.5 | 0.03 |
| tert-Butylbenzene | ND | 0.5 | 0.04 |
| 1,2,4-Trimethylbenzene | ND | 0.5 | 0.08 |
| sec-Butylbenzene | ND | 0.5 | 0.04 |
| para-Isopropyl Toluene | ND | 0.5 | 0.06 |
| 1,3-Dichlorobenzene | ND | 0.5 | 0.07 |
| 1,4-Dichlorobenzene | ND | 0.5 | 0.09 |
| n-Butylbenzene | ND | 0.5 | 0.05 |
| 1,2-Dichlorobenzene | ND | 0.5 | 0.07 |
| 1,2-Dibromo-3-Chloropropane | ND | 2.0 | 0.3 |
| 1,2,4-Trichlorobenzene | ND | 0.5 | 0.2 |
| Hexachlorobutadiene | ND | 0.5 | 0.2 |
| Naphthalene | ND | 2.0 | 0.2 |
| 1,2,3-Trichlorobenzene | ND | 0.5 | 0.2 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 106 | 80-120 |
| 1,2-Dichloroethane-d4 | 114 | 80-122 |
| Toluene-d8 | 107 | 80-120 |
| Bromofluorobenzene | 101 | 80-124 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



8.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Field ID: | MW3.6-081605 | Batch#: | 105042 |
| Lab ID: | 181341-005 | Sampled: | 08/16/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Analyzed: | 08/22/05 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Freon 12 | ND | 1.0 | 0.2 |
| Chloromethane | ND | 1.0 | 0.2 |
| Vinyl Chloride | ND | 0.5 | 0.2 |
| Bromomethane | ND | 1.0 | 0.2 |
| Chloroethane | ND | 1.0 | 0.2 |
| Ethanol | ND | 1,000 | 7.9 |
| Trichlorofluoromethane | ND | 1.0 | 0.09 |
| Isopropanol | ND | 100 | 1.4 |
| Acetone | ND | 10 | 0.3 |
| Freon 113 | ND | 5.0 | 0.1 |
| 1,1-Dichloroethene | ND | 0.5 | 0.09 |
| Methylene Chloride | ND | 10 | 0.1 |
| Carbon Disulfide | ND | 0.5 | 0.06 |
| MTBE | ND | 0.5 | 0.05 |
| trans-1,2-Dichloroethene | ND | 0.5 | 0.1 |
| Vinyl Acetate | ND | 10 | 0.08 |
| 1,1-Dichloroethane | ND | 0.5 | 0.06 |
| 2-Butanone | ND | 10 | 0.2 |
| cis-1,2-Dichloroethene | ND | 0.5 | 0.1 |
| 2,2-Dichloropropane | ND | 0.5 | 0.08 |
| Chloroform | ND | 0.5 | 0.03 |
| Bromochloromethane | ND | 0.5 | 0.2 |
| 1,1,1-Trichloroethane | ND | 0.5 | 0.05 |
| 1,1-Dichloropropene | ND | 0.5 | 0.05 |
| Carbon Tetrachloride | ND | 0.5 | 0.1 |
| 1,2-Dichloroethane | ND | 0.5 | 0.06 |
| Benzene | ND | 0.5 | 0.04 |
| Trichloroethene | ND | 0.5 | 0.07 |
| 1,2-Dichloropropane | ND | 0.5 | 0.07 |
| Bromodichloromethane | ND | 0.5 | 0.08 |
| Dibromomethane | ND | 0.5 | 0.06 |
| 4-Methyl-2-Pentanone | ND | 10 | 0.09 |
| cis-1,3-Dichloropropene | ND | 0.5 | 0.04 |
| Toluene | ND | 0.5 | 0.06 |
| trans-1,3-Dichloropropene | ND | 0.5 | 0.07 |
| 1,1,2-Trichloroethane | ND | 0.5 | 0.09 |
| 2-Hexanone | ND | 10 | 0.1 |
| 1,3-Dichloropropane | ND | 0.5 | 0.05 |
| Tetrachloroethene | ND | 0.5 | 0.09 |
| Dibromochloromethane | ND | 0.5 | 0.08 |
| 1,2-Dibromoethane | ND | 0.5 | 0.05 |
| Chlorobenzene | ND | 0.5 | 0.08 |
| 1,1,1,2-Tetrachloroethane | ND | 0.5 | 0.05 |
| Ethylbenzene | ND | 0.5 | 0.06 |
| m,p-Xylenes | ND | 0.5 | 0.1 |
| o-Xylene | ND | 0.5 | 0.1 |
| Styrene | ND | 0.5 | 0.07 |
| Bromoform | ND | 1.0 | 0.08 |
| Isopropylbenzene | ND | 0.5 | 0.05 |
| 1,1,2,2-Tetrachloroethane | ND | 0.5 | 0.07 |
| 1,2,3-Trichloropropane | ND | 0.5 | 0.2 |
| Propylbenzene | ND | 0.5 | 0.05 |
| Bromobenzene | ND | 0.5 | 0.07 |
| 1,3,5-Trimethylbenzene | ND | 0.5 | 0.08 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



9.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Field ID: | MW3.6-081605 | Batch#: | 105042 |
| Lab ID: | 181341-005 | Sampled: | 08/16/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Analyzed: | 08/22/05 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| 2-Chlorotoluene | ND | 0.5 | 0.05 |
| 4-Chlorotoluene | ND | 0.5 | 0.03 |
| tert-Butylbenzene | ND | 0.5 | 0.04 |
| 1,2,4-Trimethylbenzene | ND | 0.5 | 0.08 |
| sec-Butylbenzene | ND | 0.5 | 0.04 |
| para-Isopropyl Toluene | ND | 0.5 | 0.06 |
| 1,3-Dichlorobenzene | ND | 0.5 | 0.07 |
| 1,4-Dichlorobenzene | ND | 0.5 | 0.09 |
| n-Butylbenzene | ND | 0.5 | 0.05 |
| 1,2-Dichlorobenzene | ND | 0.5 | 0.07 |
| 1,2-Dibromo-3-Chloropropane | ND | 2.0 | 0.3 |
| 1,2,4-Trichlorobenzene | ND | 0.5 | 0.2 |
| Hexachlorobutadiene | ND | 0.5 | 0.2 |
| Naphthalene | ND | 2.0 | 0.2 |
| 1,2,3-Trichlorobenzene | ND | 0.5 | 0.2 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 106 | 80-120 |
| 1,2-Dichloroethane-d4 | 113 | 80-122 |
| Toluene-d8 | 107 | 80-120 |
| Bromofluorobenzene | 106 | 80-124 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



9.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Field ID: | MW5.2-081605 | Batch#: | 105049 |
| Lab ID: | 181341-006 | Sampled: | 08/16/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Analyzed: | 08/22/05 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Freon 12 | ND | 1.0 | 0.2 |
| Chloromethane | ND | 1.0 | 0.09 |
| Vinyl Chloride | ND | 0.5 | 0.2 |
| Bromomethane | ND | 1.0 | 0.2 |
| Chloroethane | ND | 1.0 | 0.1 |
| Ethanol | ND | 1,000 | 36 |
| Trichlorofluoromethane | ND | 1.0 | 0.1 |
| Isopropanol | ND | 100 | 1.1 |
| Acetone | ND | 10 | 0.5 |
| Freon 113 | ND | 5.0 | 0.09 |
| 1,1-Dichloroethene | ND | 0.5 | 0.09 |
| Methylene Chloride | ND | 10 | 0.2 |
| Carbon Disulfide | ND | 0.5 | 0.04 |
| MTBE | ND | 0.5 | 0.05 |
| trans-1,2-Dichloroethene | ND | 0.5 | 0.09 |
| Vinyl Acetate | ND | 10 | 0.1 |
| 1,1-Dichloroethane | ND | 0.5 | 0.06 |
| 2-Butanone | ND | 10 | 0.3 |
| cis-1,2-Dichloroethene | ND | 0.5 | 0.1 |
| 2,2-Dichloropropane | ND | 0.5 | 0.08 |
| Chloroform | ND | 0.5 | 0.04 |
| Bromochloromethane | ND | 0.5 | 0.2 |
| 1,1,1-Trichloroethane | ND | 0.5 | 0.04 |
| 1,1-Dichloropropene | ND | 0.5 | 0.05 |
| Carbon Tetrachloride | ND | 0.5 | 0.06 |
| 1,2-Dichloroethane | ND | 0.5 | 0.06 |
| Benzene | ND | 0.5 | 0.03 |
| Trichloroethene | ND | 0.5 | 0.09 |
| 1,2-Dichloropropane | ND | 0.5 | 0.1 |
| Bromodichloromethane | ND | 0.5 | 0.07 |
| Dibromomethane | ND | 0.5 | 0.1 |
| 4-Methyl-2-Pentanone | ND | 10 | 0.3 |
| cis-1,3-Dichloropropene | ND | 0.5 | 0.04 |
| Toluene | ND | 0.5 | 0.05 |
| trans-1,3-Dichloropropene | ND | 0.5 | 0.06 |
| 1,1,2-Trichloroethane | ND | 0.5 | 0.06 |
| 2-Hexanone | ND | 10 | 0.1 |
| 1,3-Dichloropropane | ND | 0.5 | 0.07 |
| Tetrachloroethene | ND | 0.5 | 0.09 |
| Dibromochloromethane | ND | 0.5 | 0.06 |
| 1,2-Dibromoethane | ND | 0.5 | 0.07 |
| Chlorobenzene | ND | 0.5 | 0.05 |
| 1,1,1,2-Tetrachloroethane | ND | 0.5 | 0.09 |
| Ethylbenzene | ND | 0.5 | 0.1 |
| m,p-Xylenes | ND | 0.5 | 0.2 |
| o-Xylene | ND | 0.5 | 0.1 |
| Styrene | ND | 0.5 | 0.06 |
| Bromoform | ND | 1.0 | 0.1 |
| Isopropylbenzene | ND | 0.5 | 0.1 |
| 1,1,2,2-Tetrachloroethane | ND | 0.5 | 0.06 |
| 1,2,3-Trichloropropane | ND | 0.5 | 0.2 |
| Propylbenzene | ND | 0.5 | 0.1 |
| Bromobenzene | ND | 0.5 | 0.09 |
| 1,3,5-Trimethylbenzene | ND | 0.5 | 0.1 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



10.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Field ID: | MW5.2-081605 | Batch#: | 105049 |
| Lab ID: | 181341-006 | Sampled: | 08/16/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Analyzed: | 08/22/05 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| 2-Chlorotoluene | ND | 0.5 | 0.1 |
| 4-Chlorotoluene | ND | 0.5 | 0.07 |
| tert-Butylbenzene | ND | 0.5 | 0.08 |
| 1,2,4-Trimethylbenzene | ND | 0.5 | 0.1 |
| sec-Butylbenzene | ND | 0.5 | 0.08 |
| para-Isopropyl Toluene | ND | 0.5 | 0.04 |
| 1,3-Dichlorobenzene | ND | 0.5 | 0.1 |
| 1,4-Dichlorobenzene | ND | 0.5 | 0.2 |
| n-Butylbenzene | ND | 0.5 | 0.1 |
| 1,2-Dichlorobenzene | ND | 0.5 | 0.06 |
| 1,2-Dibromo-3-Chloropropane | ND | 2.0 | 0.1 |
| 1,2,4-Trichlorobenzene | ND | 0.5 | 0.2 |
| Hexachlorobutadiene | ND | 0.5 | 0.2 |
| Naphthalene | ND | 2.0 | 0.2 |
| 1,2,3-Trichlorobenzene | ND | 0.5 | 0.3 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 107 | 80-120 |
| 1,2-Dichloroethane-d4 | 116 | 80-122 |
| Toluene-d8 | 102 | 80-120 |
| Bromofluorobenzene | 108 | 80-124 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



10.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Field ID: | MWDUP2-081605 | Batch#: | 105049 |
| Lab ID: | 181341-007 | Sampled: | 08/16/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Analyzed: | 08/22/05 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Freon 12 | ND | 1.0 | 0.2 |
| Chloromethane | ND | 1.0 | 0.09 |
| Vinyl Chloride | ND | 0.5 | 0.2 |
| Bromomethane | ND | 1.0 | 0.2 |
| Chloroethane | ND | 1.0 | 0.1 |
| Ethanol | ND | 1,000 | 36 |
| Trichlorofluoromethane | ND | 1.0 | 0.1 |
| Isopropanol | ND | 100 | 1.1 |
| Acetone | ND | 10 | 0.5 |
| Freon 113 | ND | 5.0 | 0.09 |
| 1,1-Dichloroethene | ND | 0.5 | 0.09 |
| Methylene Chloride | ND | 10 | 0.2 |
| Carbon Disulfide | ND | 0.5 | 0.04 |
| MTBE | 0.5 | 0.5 | 0.05 |
| trans-1,2-Dichloroethene | ND | 0.5 | 0.09 |
| Vinyl Acetate | ND | 10 | 0.1 |
| 1,1-Dichloroethane | ND | 0.5 | 0.06 |
| 2-Butanone | ND | 10 | 0.3 |
| cis-1,2-Dichloroethene | ND | 0.5 | 0.1 |
| 2,2-Dichloropropane | ND | 0.5 | 0.08 |
| Chloroform | ND | 0.5 | 0.04 |
| Bromochloromethane | ND | 0.5 | 0.2 |
| 1,1,1-Trichloroethane | ND | 0.5 | 0.04 |
| 1,1-Dichloropropene | ND | 0.5 | 0.05 |
| Carbon Tetrachloride | ND | 0.5 | 0.06 |
| 1,2-Dichloroethane | ND | 0.5 | 0.06 |
| Benzene | ND | 0.5 | 0.03 |
| Trichloroethene | ND | 0.5 | 0.09 |
| 1,2-Dichloropropane | ND | 0.5 | 0.1 |
| Bromodichloromethane | ND | 0.5 | 0.07 |
| Dibromomethane | ND | 0.5 | 0.1 |
| 4-Methyl-2-Pentanone | ND | 10 | 0.3 |
| cis-1,3-Dichloropropene | ND | 0.5 | 0.04 |
| Toluene | ND | 0.5 | 0.05 |
| trans-1,3-Dichloropropene | ND | 0.5 | 0.06 |
| 1,1,2-Trichloroethane | ND | 0.5 | 0.06 |
| 2-Hexanone | ND | 10 | 0.1 |
| 1,3-Dichloropropane | ND | 0.5 | 0.07 |
| Tetrachloroethene | ND | 0.5 | 0.09 |
| Dibromochloromethane | ND | 0.5 | 0.06 |
| 1,2-Dibromoethane | ND | 0.5 | 0.07 |
| Chlorobenzene | ND | 0.5 | 0.05 |
| 1,1,1,2-Tetrachloroethane | ND | 0.5 | 0.09 |
| Ethylbenzene | ND | 0.5 | 0.1 |
| m,p-Xylenes | ND | 0.5 | 0.2 |
| o-Xylene | ND | 0.5 | 0.1 |
| Styrene | ND | 0.5 | 0.06 |
| Bromoform | ND | 1.0 | 0.1 |
| Isopropylbenzene | ND | 0.5 | 0.1 |
| 1,1,2,2-Tetrachloroethane | ND | 0.5 | 0.06 |
| 1,2,3-Trichloropropane | ND | 0.5 | 0.2 |
| Propylbenzene | ND | 0.5 | 0.1 |
| Bromobenzene | ND | 0.5 | 0.09 |
| 1,3,5-Trimethylbenzene | ND | 0.5 | 0.1 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



11.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Field ID: | MWDUP2-081605 | Batch#: | 105049 |
| Lab ID: | 181341-007 | Sampled: | 08/16/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Analyzed: | 08/22/05 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| 2-Chlorotoluene | ND | 0.5 | 0.1 |
| 4-Chlorotoluene | ND | 0.5 | 0.07 |
| tert-Butylbenzene | ND | 0.5 | 0.08 |
| 1,2,4-Trimethylbenzene | ND | 0.5 | 0.1 |
| sec-Butylbenzene | ND | 0.5 | 0.08 |
| para-Isopropyl Toluene | ND | 0.5 | 0.04 |
| 1,3-Dichlorobenzene | ND | 0.5 | 0.1 |
| 1,4-Dichlorobenzene | ND | 0.5 | 0.2 |
| n-Butylbenzene | ND | 0.5 | 0.1 |
| 1,2-Dichlorobenzene | ND | 0.5 | 0.06 |
| 1,2-Dibromo-3-Chloropropane | ND | 2.0 | 0.1 |
| 1,2,4-Trichlorobenzene | ND | 0.5 | 0.2 |
| Hexachlorobutadiene | ND | 0.5 | 0.2 |
| Naphthalene | ND | 2.0 | 0.2 |
| 1,2,3-Trichlorobenzene | ND | 0.5 | 0.3 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 108 | 80-120 |
| 1,2-Dichloroethane-d4 | 118 | 80-122 |
| Toluene-d8 | 105 | 80-120 |
| Bromofluorobenzene | 104 | 80-124 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



11.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Field ID: | MW5.3-081605 | Batch#: | 105049 |
| Lab ID: | 181341-008 | Sampled: | 08/16/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Analyzed: | 08/22/05 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Freon 12 | ND | 1.0 | 0.2 |
| Chloromethane | ND | 1.0 | 0.09 |
| Vinyl Chloride | ND | 0.5 | 0.2 |
| Bromomethane | ND | 1.0 | 0.2 |
| Chloroethane | ND | 1.0 | 0.1 |
| Ethanol | ND | 1,000 | 36 |
| Trichlorofluoromethane | ND | 1.0 | 0.1 |
| Isopropanol | ND | 100 | 1.1 |
| Acetone | ND | 10 | 0.5 |
| Freon 113 | ND | 5.0 | 0.09 |
| 1,1-Dichloroethene | ND | 0.5 | 0.09 |
| Methylene Chloride | ND | 10 | 0.2 |
| Carbon Disulfide | ND | 0.5 | 0.04 |
| MTBE | 0.5 | 0.5 | 0.05 |
| trans-1,2-Dichloroethene | ND | 0.5 | 0.09 |
| Vinyl Acetate | ND | 10 | 0.1 |
| 1,1-Dichloroethane | 0.3 J | 0.5 | 0.06 |
| 2-Butanone | ND | 10 | 0.3 |
| cis-1,2-Dichloroethene | 0.6 | 0.5 | 0.1 |
| 2,2-Dichloropropane | ND | 0.5 | 0.08 |
| Chloroform | ND | 0.5 | 0.04 |
| Bromochloromethane | ND | 0.5 | 0.2 |
| 1,1,1-Trichloroethane | ND | 0.5 | 0.04 |
| 1,1-Dichloropropene | ND | 0.5 | 0.05 |
| Carbon Tetrachloride | ND | 0.5 | 0.06 |
| 1,2-Dichloroethane | ND | 0.5 | 0.06 |
| Benzene | ND | 0.5 | 0.03 |
| Trichloroethene | ND | 0.5 | 0.09 |
| 1,2-Dichloropropane | ND | 0.5 | 0.1 |
| Bromodichloromethane | ND | 0.5 | 0.07 |
| Dibromomethane | ND | 0.5 | 0.1 |
| 4-Methyl-2-Pentanone | ND | 10 | 0.3 |
| cis-1,3-Dichloropropene | ND | 0.5 | 0.04 |
| Toluene | ND | 0.5 | 0.05 |
| trans-1,3-Dichloropropene | ND | 0.5 | 0.06 |
| 1,1,2-Trichloroethane | ND | 0.5 | 0.06 |
| 2-Hexanone | ND | 10 | 0.1 |
| 1,3-Dichloropropane | ND | 0.5 | 0.07 |
| Tetrachloroethene | ND | 0.5 | 0.09 |
| Dibromochloromethane | ND | 0.5 | 0.06 |
| 1,2-Dibromoethane | ND | 0.5 | 0.07 |
| Chlorobenzene | ND | 0.5 | 0.05 |
| 1,1,1,2-Tetrachloroethane | ND | 0.5 | 0.09 |
| Ethylbenzene | ND | 0.5 | 0.1 |
| m,p-Xylenes | ND | 0.5 | 0.2 |
| o-Xylene | ND | 0.5 | 0.1 |
| Styrene | ND | 0.5 | 0.06 |
| Bromoform | ND | 1.0 | 0.1 |
| Isopropylbenzene | ND | 0.5 | 0.1 |
| 1,1,2,2-Tetrachloroethane | ND | 0.5 | 0.06 |
| 1,2,3-Trichloropropane | ND | 0.5 | 0.2 |
| Propylbenzene | ND | 0.5 | 0.1 |
| Bromobenzene | ND | 0.5 | 0.09 |

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



12.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Field ID: | MW5.3-081605 | Batch#: | 105049 |
| Lab ID: | 181341-008 | Sampled: | 08/16/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Analyzed: | 08/22/05 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| 1,3,5-Trimethylbenzene | ND | 0.5 | 0.1 |
| 2-Chlorotoluene | ND | 0.5 | 0.1 |
| 4-Chlorotoluene | ND | 0.5 | 0.07 |
| tert-Butylbenzene | ND | 0.5 | 0.08 |
| 1,2,4-Trimethylbenzene | ND | 0.5 | 0.1 |
| sec-Butylbenzene | ND | 0.5 | 0.08 |
| para-Isopropyl Toluene | ND | 0.5 | 0.04 |
| 1,3-Dichlorobenzene | ND | 0.5 | 0.1 |
| 1,4-Dichlorobenzene | ND | 0.5 | 0.2 |
| n-Butylbenzene | ND | 0.5 | 0.1 |
| 1,2-Dichlorobenzene | ND | 0.5 | 0.06 |
| 1,2-Dibromo-3-Chloropropane | ND | 2.0 | 0.1 |
| 1,2,4-Trichlorobenzene | ND | 0.5 | 0.2 |
| Hexachlorobutadiene | ND | 0.5 | 0.2 |
| Naphthalene | 1.1 J | 2.0 | 0.2 |
| 1,2,3-Trichlorobenzene | ND | 0.5 | 0.3 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 106 | 80-120 |
| 1,2-Dichloroethane-d4 | 117 | 80-122 |
| Toluene-d8 | 105 | 80-120 |
| Bromofluorobenzene | 104 | 80-124 |

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



12.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Field ID: | MW5.4-081605 | Batch#: | 105049 |
| Lab ID: | 181341-009 | Sampled: | 08/16/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Analyzed: | 08/22/05 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Freon 12 | ND | 1.0 | 0.2 |
| Chloromethane | ND | 1.0 | 0.09 |
| Vinyl Chloride | ND | 0.5 | 0.2 |
| Bromomethane | ND | 1.0 | 0.2 |
| Chloroethane | ND | 1.0 | 0.1 |
| Ethanol | ND | 1,000 | 36 |
| Trichlorofluoromethane | ND | 1.0 | 0.1 |
| Isopropanol | ND | 100 | 1.1 |
| Acetone | ND | 10 | 0.5 |
| Freon 113 | ND | 5.0 | 0.09 |
| 1,1-Dichloroethene | ND | 0.5 | 0.09 |
| Methylene Chloride | ND | 10 | 0.2 |
| Carbon Disulfide | ND | 0.5 | 0.04 |
| MTBE | 0.5 J | 0.5 | 0.05 |
| trans-1,2-Dichloroethene | ND | 0.5 | 0.09 |
| Vinyl Acetate | ND | 10 | 0.1 |
| 1,1-Dichloroethane | ND | 0.5 | 0.06 |
| 2-Butanone | ND | 10 | 0.3 |
| cis-1,2-Dichloroethene | ND | 0.5 | 0.1 |
| 2,2-Dichloropropane | ND | 0.5 | 0.08 |
| Chloroform | ND | 0.5 | 0.04 |
| Bromochloromethane | ND | 0.5 | 0.2 |
| 1,1,1-Trichloroethane | ND | 0.5 | 0.04 |
| 1,1-Dichloropropene | ND | 0.5 | 0.05 |
| Carbon Tetrachloride | ND | 0.5 | 0.06 |
| 1,2-Dichloroethane | ND | 0.5 | 0.06 |
| Benzene | ND | 0.5 | 0.03 |
| Trichloroethene | ND | 0.5 | 0.09 |
| 1,2-Dichloropropane | ND | 0.5 | 0.1 |
| Bromodichloromethane | ND | 0.5 | 0.07 |
| Dibromomethane | ND | 0.5 | 0.1 |
| 4-Methyl-2-Pentanone | ND | 10 | 0.3 |
| cis-1,3-Dichloropropene | ND | 0.5 | 0.04 |
| Toluene | ND | 0.5 | 0.05 |
| trans-1,3-Dichloropropene | ND | 0.5 | 0.06 |
| 1,1,2-Trichloroethane | ND | 0.5 | 0.06 |
| 2-Hexanone | ND | 10 | 0.1 |
| 1,3-Dichloropropane | ND | 0.5 | 0.07 |
| Tetrachloroethene | ND | 0.5 | 0.09 |
| Dibromochloromethane | ND | 0.5 | 0.06 |
| 1,2-Dibromoethane | ND | 0.5 | 0.07 |
| Chlorobenzene | ND | 0.5 | 0.05 |
| 1,1,1,2-Tetrachloroethane | ND | 0.5 | 0.09 |
| Ethylbenzene | ND | 0.5 | 0.1 |
| m,p-Xylenes | ND | 0.5 | 0.2 |
| o-Xylene | ND | 0.5 | 0.1 |
| Styrene | ND | 0.5 | 0.06 |
| Bromoform | ND | 1.0 | 0.1 |
| Isopropylbenzene | ND | 0.5 | 0.1 |
| 1,1,2,2-Tetrachloroethane | ND | 0.5 | 0.06 |
| 1,2,3-Trichloropropane | ND | 0.5 | 0.2 |
| Propylbenzene | ND | 0.5 | 0.1 |
| Bromobenzene | ND | 0.5 | 0.09 |

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



13.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Field ID: | MW5.4-081605 | Batch#: | 105049 |
| Lab ID: | 181341-009 | Sampled: | 08/16/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Analyzed: | 08/22/05 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| 1,3,5-Trimethylbenzene | ND | 0.5 | 0.1 |
| 2-Chlorotoluene | ND | 0.5 | 0.1 |
| 4-Chlorotoluene | ND | 0.5 | 0.07 |
| tert-Butylbenzene | ND | 0.5 | 0.08 |
| 1,2,4-Trimethylbenzene | ND | 0.5 | 0.1 |
| sec-Butylbenzene | ND | 0.5 | 0.08 |
| para-Isopropyl Toluene | ND | 0.5 | 0.04 |
| 1,3-Dichlorobenzene | ND | 0.5 | 0.1 |
| 1,4-Dichlorobenzene | ND | 0.5 | 0.2 |
| n-Butylbenzene | ND | 0.5 | 0.1 |
| 1,2-Dichlorobenzene | ND | 0.5 | 0.06 |
| 1,2-Dibromo-3-Chloropropane | ND | 2.0 | 0.1 |
| 1,2,4-Trichlorobenzene | ND | 0.5 | 0.2 |
| Hexachlorobutadiene | ND | 0.5 | 0.2 |
| Naphthalene | ND | 2.0 | 0.2 |
| 1,2,3-Trichlorobenzene | ND | 0.5 | 0.3 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 107 | 80-120 |
| 1,2-Dichloroethane-d4 | 115 | 80-122 |
| Toluene-d8 | 103 | 80-120 |
| Bromofluorobenzene | 105 | 80-124 |

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



13.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Field ID: | MW3.7-081705 | Batch#: | 105049 |
| Lab ID: | 181341-010 | Sampled: | 08/17/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Analyzed: | 08/22/05 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Freon 12 | ND | 1.0 | 0.2 |
| Chloromethane | ND | 1.0 | 0.09 |
| Vinyl Chloride | ND | 0.5 | 0.2 |
| Bromomethane | ND | 1.0 | 0.2 |
| Chloroethane | ND | 1.0 | 0.1 |
| Ethanol | ND | 1,000 | 36 |
| Trichlorofluoromethane | ND | 1.0 | 0.1 |
| Isopropanol | ND | 100 | 1.1 |
| Acetone | ND | 10 | 0.5 |
| Freon 113 | ND | 5.0 | 0.09 |
| 1,1-Dichloroethene | ND | 0.5 | 0.09 |
| Methylene Chloride | ND | 10 | 0.2 |
| Carbon Disulfide | ND | 0.5 | 0.04 |
| MTBE | 0.4 J | 0.5 | 0.05 |
| trans-1,2-Dichloroethene | ND | 0.5 | 0.09 |
| Vinyl Acetate | ND | 10 | 0.1 |
| 1,1-Dichloroethane | 0.1 J | 0.5 | 0.06 |
| 2-Butanone | ND | 10 | 0.3 |
| cis-1,2-Dichloroethene | ND | 0.5 | 0.1 |
| 2,2-Dichloropropane | ND | 0.5 | 0.08 |
| Chloroform | ND | 0.5 | 0.04 |
| Bromochloromethane | ND | 0.5 | 0.2 |
| 1,1,1-Trichloroethane | ND | 0.5 | 0.04 |
| 1,1-Dichloropropene | ND | 0.5 | 0.05 |
| Carbon Tetrachloride | ND | 0.5 | 0.06 |
| 1,2-Dichloroethane | ND | 0.5 | 0.06 |
| Benzene | ND | 0.5 | 0.03 |
| Trichloroethene | ND | 0.5 | 0.09 |
| 1,2-Dichloropropane | ND | 0.5 | 0.1 |
| Bromodichloromethane | ND | 0.5 | 0.07 |
| Dibromomethane | ND | 0.5 | 0.1 |
| 4-Methyl-2-Pentanone | ND | 10 | 0.3 |
| cis-1,3-Dichloropropene | ND | 0.5 | 0.04 |
| Toluene | ND | 0.5 | 0.05 |
| trans-1,3-Dichloropropene | ND | 0.5 | 0.06 |
| 1,1,2-Trichloroethane | ND | 0.5 | 0.06 |
| 2-Hexanone | ND | 10 | 0.1 |
| 1,3-Dichloropropane | ND | 0.5 | 0.07 |
| Tetrachloroethene | ND | 0.5 | 0.09 |
| Dibromochloromethane | ND | 0.5 | 0.06 |
| 1,2-Dibromoethane | ND | 0.5 | 0.07 |
| Chlorobenzene | ND | 0.5 | 0.05 |
| 1,1,1,2-Tetrachloroethane | ND | 0.5 | 0.09 |
| Ethylbenzene | ND | 0.5 | 0.1 |
| m,p-Xylenes | ND | 0.5 | 0.2 |
| o-Xylene | ND | 0.5 | 0.1 |
| Styrene | ND | 0.5 | 0.06 |
| Bromoform | ND | 1.0 | 0.1 |
| Isopropylbenzene | ND | 0.5 | 0.1 |
| 1,1,2,2-Tetrachloroethane | ND | 0.5 | 0.06 |
| 1,2,3-Trichloropropane | ND | 0.5 | 0.2 |
| Propylbenzene | ND | 0.5 | 0.1 |
| Bromobenzene | ND | 0.5 | 0.09 |

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



14.0

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Analytical Laboratories, Since 1878

# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Field ID: | MW3.7-081705 | Batch#: | 105049 |
| Lab ID: | 181341-010 | Sampled: | 08/17/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Analyzed: | 08/22/05 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| 1,3,5-Trimethylbenzene | ND | 0.5 | 0.1 |
| 2-Chlorotoluene | ND | 0.5 | 0.1 |
| 4-Chlorotoluene | ND | 0.5 | 0.07 |
| tert-Butylbenzene | ND | 0.5 | 0.08 |
| 1,2,4-Trimethylbenzene | ND | 0.5 | 0.1 |
| sec-Butylbenzene | ND | 0.5 | 0.08 |
| para-Isopropyl Toluene | ND | 0.5 | 0.04 |
| 1,3-Dichlorobenzene | ND | 0.5 | 0.1 |
| 1,4-Dichlorobenzene | ND | 0.5 | 0.2 |
| n-Butylbenzene | ND | 0.5 | 0.1 |
| 1,2-Dichlorobenzene | ND | 0.5 | 0.06 |
| 1,2-Dibromo-3-Chloropropane | ND | 2.0 | 0.1 |
| 1,2,4-Trichlorobenzene | ND | 0.5 | 0.2 |
| Hexachlorobutadiene | ND | 0.5 | 0.2 |
| Naphthalene | ND | 2.0 | 0.2 |
| 1,2,3-Trichlorobenzene | ND | 0.5 | 0.3 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 107 | 80-120 |
| 1,2-Dichloroethane-d4 | 116 | 80-122 |
| Toluene-d8 | 102 | 80-120 |
| Bromofluorobenzene | 103 | 80-124 |

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



14.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Field ID: | MW3.8-081705 | Batch#: | 105049 |
| Lab ID: | 181341-011 | Sampled: | 08/17/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Analyzed: | 08/22/05 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Freon 12 | ND | 1.0 | 0.2 |
| Chloromethane | ND | 1.0 | 0.09 |
| Vinyl Chloride | ND | 0.5 | 0.2 |
| Bromomethane | ND | 1.0 | 0.2 |
| Chloroethane | ND | 1.0 | 0.1 |
| Ethanol | ND | 1,000 | 36 |
| Trichlorofluoromethane | ND | 1.0 | 0.1 |
| Isopropanol | ND | 100 | 1.1 |
| Acetone | ND | 10 | 0.5 |
| Freon 113 | ND | 5.0 | 0.09 |
| 1,1-Dichloroethene | ND | 0.5 | 0.09 |
| Methylene Chloride | ND | 10 | 0.2 |
| Carbon Disulfide | ND | 0.5 | 0.04 |
| MTBE | 0.3 J | 0.5 | 0.05 |
| trans-1,2-Dichloroethene | ND | 0.5 | 0.09 |
| Vinyl Acetate | ND | 10 | 0.1 |
| 1,1-Dichloroethane | ND | 0.5 | 0.06 |
| 2-Butanone | ND | 10 | 0.3 |
| cis-1,2-Dichloroethene | ND | 0.5 | 0.1 |
| 2,2-Dichloropropane | ND | 0.5 | 0.08 |
| Chloroform | ND | 0.5 | 0.04 |
| Bromochloromethane | ND | 0.5 | 0.2 |
| 1,1,1-Trichloroethane | ND | 0.5 | 0.04 |
| 1,1-Dichloropropene | ND | 0.5 | 0.05 |
| Carbon Tetrachloride | ND | 0.5 | 0.06 |
| 1,2-Dichloroethane | ND | 0.5 | 0.06 |
| Benzene | ND | 0.5 | 0.03 |
| Trichloroethene | ND | 0.5 | 0.09 |
| 1,2-Dichloropropane | ND | 0.5 | 0.1 |
| Bromodichloromethane | ND | 0.5 | 0.07 |
| Dibromomethane | ND | 0.5 | 0.1 |
| 4-Methyl-2-Pentanone | ND | 10 | 0.3 |
| cis-1,3-Dichloropropene | ND | 0.5 | 0.04 |
| Toluene | ND | 0.5 | 0.05 |
| trans-1,3-Dichloropropene | ND | 0.5 | 0.06 |
| 1,1,2-Trichloroethane | ND | 0.5 | 0.06 |
| 2-Hexanone | ND | 10 | 0.1 |
| 1,3-Dichloropropane | ND | 0.5 | 0.07 |
| Tetrachloroethene | ND | 0.5 | 0.09 |
| Dibromochloromethane | ND | 0.5 | 0.06 |
| 1,2-Dibromoethane | ND | 0.5 | 0.07 |
| Chlorobenzene | ND | 0.5 | 0.05 |
| 1,1,1,2-Tetrachloroethane | ND | 0.5 | 0.09 |
| Ethylbenzene | ND | 0.5 | 0.1 |
| m,p-Xylenes | ND | 0.5 | 0.2 |
| o-Xylene | ND | 0.5 | 0.1 |
| Styrene | ND | 0.5 | 0.06 |
| Bromoform | ND | 1.0 | 0.1 |
| Isopropylbenzene | ND | 0.5 | 0.1 |
| 1,1,2,2-Tetrachloroethane | ND | 0.5 | 0.06 |
| 1,2,3-Trichloropropane | ND | 0.5 | 0.2 |
| Propylbenzene | ND | 0.5 | 0.1 |
| Bromobenzene | ND | 0.5 | 0.09 |

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



15.0

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Analytical Laboratories, Since 1878

# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Field ID: | MW3.8-081705 | Batch#: | 105049 |
| Lab ID: | 181341-011 | Sampled: | 08/17/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Analyzed: | 08/22/05 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| 1,3,5-Trimethylbenzene | ND | 0.5 | 0.1 |
| 2-Chlorotoluene | ND | 0.5 | 0.1 |
| 4-Chlorotoluene | ND | 0.5 | 0.07 |
| tert-Butylbenzene | ND | 0.5 | 0.08 |
| 1,2,4-Trimethylbenzene | ND | 0.5 | 0.1 |
| sec-Butylbenzene | ND | 0.5 | 0.08 |
| para-Isopropyl Toluene | ND | 0.5 | 0.04 |
| 1,3-Dichlorobenzene | ND | 0.5 | 0.1 |
| 1,4-Dichlorobenzene | ND | 0.5 | 0.2 |
| n-Butylbenzene | ND | 0.5 | 0.1 |
| 1,2-Dichlorobenzene | ND | 0.5 | 0.06 |
| 1,2-Dibromo-3-Chloropropane | ND | 2.0 | 0.1 |
| 1,2,4-Trichlorobenzene | ND | 0.5 | 0.2 |
| Hexachlorobutadiene | ND | 0.5 | 0.2 |
| Naphthalene | ND | 2.0 | 0.2 |
| 1,2,3-Trichlorobenzene | ND | 0.5 | 0.3 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 108 | 80-120 |
| 1,2-Dichloroethane-d4 | 117 | 80-122 |
| Toluene-d8 | 106 | 80-120 |
| Bromofluorobenzene | 103 | 80-124 |

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



15.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Field ID: | MW3.9-081705 | Batch#: | 105049 |
| Lab ID: | 181341-012 | Sampled: | 08/17/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Analyzed: | 08/22/05 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Freon 12 | ND | 1.0 | 0.2 |
| Chloromethane | ND | 1.0 | 0.09 |
| Vinyl Chloride | ND | 0.5 | 0.2 |
| Bromomethane | ND | 1.0 | 0.2 |
| Chloroethane | ND | 1.0 | 0.1 |
| Ethanol | ND | 1,000 | 36 |
| Trichlorofluoromethane | ND | 1.0 | 0.1 |
| Isopropanol | ND | 100 | 1.1 |
| Acetone | ND | 10 | 0.5 |
| Freon 113 | ND | 5.0 | 0.09 |
| 1,1-Dichloroethene | ND | 0.5 | 0.09 |
| Methylene Chloride | ND | 10 | 0.2 |
| Carbon Disulfide | ND | 0.5 | 0.04 |
| MTBE | ND | 0.5 | 0.05 |
| trans-1,2-Dichloroethene | ND | 0.5 | 0.09 |
| Vinyl Acetate | ND | 10 | 0.1 |
| 1,1-Dichloroethane | ND | 0.5 | 0.06 |
| 2-Butanone | ND | 10 | 0.3 |
| cis-1,2-Dichloroethene | ND | 0.5 | 0.1 |
| 2,2-Dichloropropane | ND | 0.5 | 0.08 |
| Chloroform | ND | 0.5 | 0.04 |
| Bromochloromethane | ND | 0.5 | 0.2 |
| 1,1,1-Trichloroethane | ND | 0.5 | 0.04 |
| 1,1-Dichloropropene | ND | 0.5 | 0.05 |
| Carbon Tetrachloride | ND | 0.5 | 0.06 |
| 1,2-Dichloroethane | ND | 0.5 | 0.06 |
| Benzene | ND | 0.5 | 0.03 |
| Trichloroethene | ND | 0.5 | 0.09 |
| 1,2-Dichloropropane | ND | 0.5 | 0.1 |
| Bromodichloromethane | ND | 0.5 | 0.07 |
| Dibromomethane | ND | 0.5 | 0.1 |
| 4-Methyl-2-Pentanone | ND | 10 | 0.3 |
| cis-1,3-Dichloropropene | ND | 0.5 | 0.04 |
| Toluene | ND | 0.5 | 0.05 |
| trans-1,3-Dichloropropene | ND | 0.5 | 0.06 |
| 1,1,2-Trichloroethane | ND | 0.5 | 0.06 |
| 2-Hexanone | ND | 10 | 0.1 |
| 1,3-Dichloropropane | ND | 0.5 | 0.07 |
| Tetrachloroethene | ND | 0.5 | 0.09 |
| Dibromochloromethane | ND | 0.5 | 0.06 |
| 1,2-Dibromoethane | ND | 0.5 | 0.07 |
| Chlorobenzene | ND | 0.5 | 0.05 |
| 1,1,1,2-Tetrachloroethane | ND | 0.5 | 0.09 |
| Ethylbenzene | ND | 0.5 | 0.1 |
| m,p-Xylenes | ND | 0.5 | 0.2 |
| o-Xylene | ND | 0.5 | 0.1 |
| Styrene | ND | 0.5 | 0.06 |
| Bromoform | ND | 1.0 | 0.1 |
| Isopropylbenzene | ND | 0.5 | 0.1 |
| 1,1,2,2-Tetrachloroethane | ND | 0.5 | 0.06 |
| 1,2,3-Trichloropropane | ND | 0.5 | 0.2 |
| Propylbenzene | ND | 0.5 | 0.1 |
| Bromobenzene | ND | 0.5 | 0.09 |
| 1,3,5-Trimethylbenzene | ND | 0.5 | 0.1 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



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Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Field ID: | MW3.9-081705 | Batch#: | 105049 |
| Lab ID: | 181341-012 | Sampled: | 08/17/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Analyzed: | 08/22/05 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| 2-Chlorotoluene | ND | 0.5 | 0.1 |
| 4-Chlorotoluene | ND | 0.5 | 0.07 |
| tert-Butylbenzene | ND | 0.5 | 0.08 |
| 1,2,4-Trimethylbenzene | ND | 0.5 | 0.1 |
| sec-Butylbenzene | ND | 0.5 | 0.08 |
| para-Isopropyl Toluene | ND | 0.5 | 0.04 |
| 1,3-Dichlorobenzene | ND | 0.5 | 0.1 |
| 1,4-Dichlorobenzene | ND | 0.5 | 0.2 |
| n-Butylbenzene | ND | 0.5 | 0.1 |
| 1,2-Dichlorobenzene | ND | 0.5 | 0.06 |
| 1,2-Dibromo-3-Chloropropane | ND | 2.0 | 0.1 |
| 1,2,4-Trichlorobenzene | ND | 0.5 | 0.2 |
| Hexachlorobutadiene | ND | 0.5 | 0.2 |
| Naphthalene | ND | 2.0 | 0.2 |
| 1,2,3-Trichlorobenzene | ND | 0.5 | 0.3 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 108 | 80-120 |
| 1,2-Dichloroethane-d4 | 118 | 80-122 |
| Toluene-d8 | 103 | 80-120 |
| Bromofluorobenzene | 104 | 80-124 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



16.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Field ID: | MW5.5-081705 | Batch#: | 105049 |
| Lab ID: | 181341-013 | Sampled: | 08/17/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Analyzed: | 08/22/05 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Freon 12 | ND | 1.0 | 0.2 |
| Chloromethane | ND | 1.0 | 0.09 |
| Vinyl Chloride | ND | 0.5 | 0.2 |
| Bromomethane | ND | 1.0 | 0.2 |
| Chloroethane | ND | 1.0 | 0.1 |
| Ethanol | ND | 1,000 | 36 |
| Trichlorofluoromethane | ND | 1.0 | 0.1 |
| Isopropanol | ND | 100 | 1.1 |
| Acetone | ND | 10 | 0.5 |
| Freon 113 | ND | 5.0 | 0.09 |
| 1,1-Dichloroethene | ND | 0.5 | 0.09 |
| Methylene Chloride | ND | 10 | 0.2 |
| Carbon Disulfide | ND | 0.5 | 0.04 |
| MTBE | 0.3 J | 0.5 | 0.05 |
| trans-1,2-Dichloroethene | ND | 0.5 | 0.09 |
| Vinyl Acetate | ND | 10 | 0.1 |
| 1,1-Dichloroethane | ND | 0.5 | 0.06 |
| 2-Butanone | ND | 10 | 0.3 |
| cis-1,2-Dichloroethene | ND | 0.5 | 0.1 |
| 2,2-Dichloropropane | ND | 0.5 | 0.08 |
| Chloroform | ND | 0.5 | 0.04 |
| Bromochloromethane | ND | 0.5 | 0.2 |
| 1,1,1-Trichloroethane | ND | 0.5 | 0.04 |
| 1,1-Dichloropropene | ND | 0.5 | 0.05 |
| Carbon Tetrachloride | ND | 0.5 | 0.06 |
| 1,2-Dichloroethane | ND | 0.5 | 0.06 |
| Benzene | ND | 0.5 | 0.03 |
| Trichloroethene | ND | 0.5 | 0.09 |
| 1,2-Dichloropropane | ND | 0.5 | 0.1 |
| Bromodichloromethane | ND | 0.5 | 0.07 |
| Dibromomethane | ND | 0.5 | 0.1 |
| 4-Methyl-2-Pentanone | ND | 10 | 0.3 |
| cis-1,3-Dichloropropene | ND | 0.5 | 0.04 |
| Toluene | ND | 0.5 | 0.05 |
| trans-1,3-Dichloropropene | ND | 0.5 | 0.06 |
| 1,1,2-Trichloroethane | ND | 0.5 | 0.06 |
| 2-Hexanone | ND | 10 | 0.1 |
| 1,3-Dichloropropane | ND | 0.5 | 0.07 |
| Tetrachloroethene | ND | 0.5 | 0.09 |
| Dibromochloromethane | ND | 0.5 | 0.06 |
| 1,2-Dibromoethane | ND | 0.5 | 0.07 |
| Chlorobenzene | ND | 0.5 | 0.05 |
| 1,1,1,2-Tetrachloroethane | ND | 0.5 | 0.09 |
| Ethylbenzene | ND | 0.5 | 0.1 |
| m,p-Xylenes | ND | 0.5 | 0.2 |
| o-Xylene | ND | 0.5 | 0.1 |
| Styrene | ND | 0.5 | 0.06 |
| Bromoform | ND | 1.0 | 0.1 |
| Isopropylbenzene | ND | 0.5 | 0.1 |
| 1,1,2,2-Tetrachloroethane | ND | 0.5 | 0.06 |
| 1,2,3-Trichloropropane | ND | 0.5 | 0.2 |
| Propylbenzene | ND | 0.5 | 0.1 |
| Bromobenzene | ND | 0.5 | 0.09 |

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



17.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Field ID: | MW5.5-081705 | Batch#: | 105049 |
| Lab ID: | 181341-013 | Sampled: | 08/17/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Analyzed: | 08/22/05 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| 1,3,5-Trimethylbenzene | ND | 0.5 | 0.1 |
| 2-Chlorotoluene | ND | 0.5 | 0.1 |
| 4-Chlorotoluene | ND | 0.5 | 0.07 |
| tert-Butylbenzene | ND | 0.5 | 0.08 |
| 1,2,4-Trimethylbenzene | ND | 0.5 | 0.1 |
| sec-Butylbenzene | ND | 0.5 | 0.08 |
| para-Isopropyl Toluene | ND | 0.5 | 0.04 |
| 1,3-Dichlorobenzene | ND | 0.5 | 0.1 |
| 1,4-Dichlorobenzene | ND | 0.5 | 0.2 |
| n-Butylbenzene | ND | 0.5 | 0.1 |
| 1,2-Dichlorobenzene | ND | 0.5 | 0.06 |
| 1,2-Dibromo-3-Chloropropane | ND | 2.0 | 0.1 |
| 1,2,4-Trichlorobenzene | ND | 0.5 | 0.2 |
| Hexachlorobutadiene | ND | 0.5 | 0.2 |
| Naphthalene | ND | 2.0 | 0.2 |
| 1,2,3-Trichlorobenzene | ND | 0.5 | 0.3 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 110 | 80-120 |
| 1,2-Dichloroethane-d4 | 117 | 80-122 |
| Toluene-d8 | 102 | 80-120 |
| Bromofluorobenzene | 104 | 80-124 |

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



17.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Field ID: | MW5.6-081705 | Batch#: | 105049 |
| Lab ID: | 181341-014 | Sampled: | 08/17/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Analyzed: | 08/22/05 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Freon 12 | ND | 1.0 | 0.2 |
| Chloromethane | ND | 1.0 | 0.09 |
| Vinyl Chloride | ND | 0.5 | 0.2 |
| Bromomethane | ND | 1.0 | 0.2 |
| Chloroethane | ND | 1.0 | 0.1 |
| Ethanol | ND | 1,000 | 36 |
| Trichlorofluoromethane | ND | 1.0 | 0.1 |
| Isopropanol | ND | 100 | 1.1 |
| Acetone | ND | 10 | 0.5 |
| Freon 113 | ND | 5.0 | 0.09 |
| 1,1-Dichloroethene | ND | 0.5 | 0.09 |
| Methylene Chloride | ND | 10 | 0.2 |
| Carbon Disulfide | ND | 0.5 | 0.04 |
| MTBE | 0.4 J | 0.5 | 0.05 |
| trans-1,2-Dichloroethene | ND | 0.5 | 0.09 |
| Vinyl Acetate | ND | 10 | 0.1 |
| 1,1-Dichloroethane | ND | 0.5 | 0.06 |
| 2-Butanone | ND | 10 | 0.3 |
| cis-1,2-Dichloroethene | ND | 0.5 | 0.1 |
| 2,2-Dichloropropane | ND | 0.5 | 0.08 |
| Chloroform | ND | 0.5 | 0.04 |
| Bromochloromethane | ND | 0.5 | 0.2 |
| 1,1,1-Trichloroethane | ND | 0.5 | 0.04 |
| 1,1-Dichloropropene | ND | 0.5 | 0.05 |
| Carbon Tetrachloride | ND | 0.5 | 0.06 |
| 1,2-Dichloroethane | ND | 0.5 | 0.06 |
| Benzene | ND | 0.5 | 0.03 |
| Trichloroethene | ND | 0.5 | 0.09 |
| 1,2-Dichloropropane | ND | 0.5 | 0.1 |
| Bromodichloromethane | ND | 0.5 | 0.07 |
| Dibromomethane | ND | 0.5 | 0.1 |
| 4-Methyl-2-Pentanone | ND | 10 | 0.3 |
| cis-1,3-Dichloropropene | ND | 0.5 | 0.04 |
| Toluene | ND | 0.5 | 0.05 |
| trans-1,3-Dichloropropene | ND | 0.5 | 0.06 |
| 1,1,2-Trichloroethane | ND | 0.5 | 0.06 |
| 2-Hexanone | ND | 10 | 0.1 |
| 1,3-Dichloropropane | ND | 0.5 | 0.07 |
| Tetrachloroethene | ND | 0.5 | 0.09 |
| Dibromochloromethane | ND | 0.5 | 0.06 |
| 1,2-Dibromoethane | ND | 0.5 | 0.07 |
| Chlorobenzene | ND | 0.5 | 0.05 |
| 1,1,1,2-Tetrachloroethane | ND | 0.5 | 0.09 |
| Ethylbenzene | ND | 0.5 | 0.1 |
| m,p-Xylenes | ND | 0.5 | 0.2 |
| o-Xylene | ND | 0.5 | 0.1 |
| Styrene | ND | 0.5 | 0.06 |
| Bromoform | ND | 1.0 | 0.1 |
| Isopropylbenzene | ND | 0.5 | 0.1 |
| 1,1,2,2-Tetrachloroethane | ND | 0.5 | 0.06 |
| 1,2,3-Trichloropropane | ND | 0.5 | 0.2 |
| Propylbenzene | ND | 0.5 | 0.1 |
| Bromobenzene | ND | 0.5 | 0.09 |

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



18.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Field ID: | MW5.6-081705 | Batch#: | 105049 |
| Lab ID: | 181341-014 | Sampled: | 08/17/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Analyzed: | 08/22/05 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| 1,3,5-Trimethylbenzene | ND | 0.5 | 0.1 |
| 2-Chlorotoluene | ND | 0.5 | 0.1 |
| 4-Chlorotoluene | ND | 0.5 | 0.07 |
| tert-Butylbenzene | ND | 0.5 | 0.08 |
| 1,2,4-Trimethylbenzene | ND | 0.5 | 0.1 |
| sec-Butylbenzene | ND | 0.5 | 0.08 |
| para-Isopropyl Toluene | ND | 0.5 | 0.04 |
| 1,3-Dichlorobenzene | ND | 0.5 | 0.1 |
| 1,4-Dichlorobenzene | ND | 0.5 | 0.2 |
| n-Butylbenzene | ND | 0.5 | 0.1 |
| 1,2-Dichlorobenzene | ND | 0.5 | 0.06 |
| 1,2-Dibromo-3-Chloropropane | ND | 2.0 | 0.1 |
| 1,2,4-Trichlorobenzene | ND | 0.5 | 0.2 |
| Hexachlorobutadiene | ND | 0.5 | 0.2 |
| Naphthalene | ND | 2.0 | 0.2 |
| 1,2,3-Trichlorobenzene | ND | 0.5 | 0.3 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 108 | 80-120 |
| 1,2-Dichloroethane-d4 | 120 | 80-122 |
| Toluene-d8 | 103 | 80-120 |
| Bromofluorobenzene | 106 | 80-124 |

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



18.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Field ID: | MW5.7-081705 | Batch#: | 105049 |
| Lab ID: | 181341-015 | Sampled: | 08/17/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Analyzed: | 08/22/05 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Freon 12 | ND | 1.0 | 0.2 |
| Chloromethane | ND | 1.0 | 0.09 |
| Vinyl Chloride | ND | 0.5 | 0.2 |
| Bromomethane | ND | 1.0 | 0.2 |
| Chloroethane | ND | 1.0 | 0.1 |
| Ethanol | ND | 1,000 | 36 |
| Trichlorofluoromethane | ND | 1.0 | 0.1 |
| Isopropanol | ND | 100 | 1.1 |
| Acetone | ND | 10 | 0.5 |
| Freon 113 | ND | 5.0 | 0.09 |
| 1,1-Dichloroethene | ND | 0.5 | 0.09 |
| Methylene Chloride | ND | 10 | 0.2 |
| Carbon Disulfide | ND | 0.5 | 0.04 |
| MTBE | 1.5 | 0.5 | 0.05 |
| trans-1,2-Dichloroethene | ND | 0.5 | 0.09 |
| Vinyl Acetate | ND | 10 | 0.1 |
| 1,1-Dichloroethane | ND | 0.5 | 0.06 |
| 2-Butanone | ND | 10 | 0.3 |
| cis-1,2-Dichloroethene | ND | 0.5 | 0.1 |
| 2,2-Dichloropropane | ND | 0.5 | 0.08 |
| Chloroform | ND | 0.5 | 0.04 |
| Bromochloromethane | ND | 0.5 | 0.2 |
| 1,1,1-Trichloroethane | ND | 0.5 | 0.04 |
| 1,1-Dichloropropene | ND | 0.5 | 0.05 |
| Carbon Tetrachloride | ND | 0.5 | 0.06 |
| 1,2-Dichloroethane | ND | 0.5 | 0.06 |
| Benzene | ND | 0.5 | 0.03 |
| Trichloroethene | ND | 0.5 | 0.09 |
| 1,2-Dichloropropane | ND | 0.5 | 0.1 |
| Bromodichloromethane | ND | 0.5 | 0.07 |
| Dibromomethane | ND | 0.5 | 0.1 |
| 4-Methyl-2-Pentanone | ND | 10 | 0.3 |
| cis-1,3-Dichloropropene | ND | 0.5 | 0.04 |
| Toluene | ND | 0.5 | 0.05 |
| trans-1,3-Dichloropropene | ND | 0.5 | 0.06 |
| 1,1,2-Trichloroethane | ND | 0.5 | 0.06 |
| 2-Hexanone | ND | 10 | 0.1 |
| 1,3-Dichloropropane | ND | 0.5 | 0.07 |
| Tetrachloroethene | ND | 0.5 | 0.09 |
| Dibromochloromethane | ND | 0.5 | 0.06 |
| 1,2-Dibromoethane | ND | 0.5 | 0.07 |
| Chlorobenzene | ND | 0.5 | 0.05 |
| 1,1,1,2-Tetrachloroethane | ND | 0.5 | 0.09 |
| Ethylbenzene | ND | 0.5 | 0.1 |
| m,p-Xylenes | ND | 0.5 | 0.2 |
| o-Xylene | ND | 0.5 | 0.1 |
| Styrene | ND | 0.5 | 0.06 |
| Bromoform | ND | 1.0 | 0.1 |
| Isopropylbenzene | ND | 0.5 | 0.1 |
| 1,1,2,2-Tetrachloroethane | ND | 0.5 | 0.06 |
| 1,2,3-Trichloropropane | ND | 0.5 | 0.2 |
| Propylbenzene | ND | 0.5 | 0.1 |
| Bromobenzene | ND | 0.5 | 0.09 |
| 1,3,5-Trimethylbenzene | ND | 0.5 | 0.1 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



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# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Field ID: | MW5.7-081705 | Batch#: | 105049 |
| Lab ID: | 181341-015 | Sampled: | 08/17/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Analyzed: | 08/22/05 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| 2-Chlorotoluene | ND | 0.5 | 0.1 |
| 4-Chlorotoluene | ND | 0.5 | 0.07 |
| tert-Butylbenzene | ND | 0.5 | 0.08 |
| 1,2,4-Trimethylbenzene | ND | 0.5 | 0.1 |
| sec-Butylbenzene | ND | 0.5 | 0.08 |
| para-Isopropyl Toluene | ND | 0.5 | 0.04 |
| 1,3-Dichlorobenzene | ND | 0.5 | 0.1 |
| 1,4-Dichlorobenzene | ND | 0.5 | 0.2 |
| n-Butylbenzene | ND | 0.5 | 0.1 |
| 1,2-Dichlorobenzene | ND | 0.5 | 0.06 |
| 1,2-Dibromo-3-Chloropropane | ND | 2.0 | 0.1 |
| 1,2,4-Trichlorobenzene | ND | 0.5 | 0.2 |
| Hexachlorobutadiene | ND | 0.5 | 0.2 |
| Naphthalene | ND | 2.0 | 0.2 |
| 1,2,3-Trichlorobenzene | ND | 0.5 | 0.3 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 108 | 80-120 |
| 1,2-Dichloroethane-d4 | 118 | 80-122 |
| Toluene-d8 | 102 | 80-120 |
| Bromofluorobenzene | 105 | 80-124 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



19.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

## Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Matrix: | Water | Batch#: | 105042 |
| Units: | ug/L | Analyzed: | 08/22/05 |
| Diln Fac: | 1.000 | | |

Type: BS Lab ID: QC305895

| Analyte | Spiked | Result | %REC | Limits |
|---|---|---|---|---|
| 1,1-Dichloroethene | 25.00 | 23.81 | 95 | 75-121 |
| Benzene | 25.00 | 23.60 | 94 | 80-120 |
| Trichloroethene | 25.00 | 24.46 | 98 | 78-120 |
| Toluene | 25.00 | 27.49 | 110 | 80-120 |
| Chlorobenzene | 25.00 | 23.71 | 95 | 80-120 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 99 | 80-120 |
| 1,2-Dichloroethane-d4 | 100 | 80-122 |
| Toluene-d8 | 107 | 80-120 |
| Bromofluorobenzene | 101 | 80-124 |

Type: BSD Lab ID: QC305896

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 25.00 | 24.69 | 99 | 75-121 | 4 | 20 |
| Benzene | 25.00 | 26.57 | 106 | 80-120 | 12 | 20 |
| Trichloroethene | 25.00 | 26.95 | 108 | 78-120 | 10 | 20 |
| Toluene | 25.00 | 28.39 | 114 | 80-120 | 3 | 20 |
| Chlorobenzene | 25.00 | 26.45 | 106 | 80-120 | 11 | 20 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 98 | 80-120 |
| 1,2-Dichloroethane-d4 | 108 | 80-122 |
| Toluene-d8 | 110 | 80-120 |
| Bromofluorobenzene | 103 | 80-124 |

RPD= Relative Percent Difference



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Batch QC Report

## Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Type: | BLANK | Diln Fac: | 1.000 |
| Lab ID: | QC305897 | Batch#: | 105042 |
| Matrix: | Water | Analyzed: | 08/22/05 |
| Units: | ug/L | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Freon 12 | ND | 1.0 | 0.2 |
| Chloromethane | ND | 1.0 | 0.2 |
| Vinyl Chloride | ND | 0.5 | 0.2 |
| Bromomethane | ND | 1.0 | 0.2 |
| Chloroethane | ND | 1.0 | 0.2 |
| Ethanol | ND | 1,000 | 7.9 |
| Trichlorofluoromethane | ND | 1.0 | 0.09 |
| Isopropanol | ND | 100 | 1.4 |
| Acetone | ND | 10 | 0.3 |
| Freon 113 | ND | 5.0 | 0.1 |
| 1,1-Dichloroethene | ND | 0.5 | 0.09 |
| Methylene Chloride | ND | 10 | 0.1 |
| Carbon Disulfide | ND | 0.5 | 0.06 |
| MTBE | ND | 0.5 | 0.05 |
| trans-1,2-Dichloroethene | ND | 0.5 | 0.1 |
| Vinyl Acetate | ND | 10 | 0.08 |
| 1,1-Dichloroethane | ND | 0.5 | 0.06 |
| 2-Butanone | ND | 10 | 0.2 |
| cis-1,2-Dichloroethene | ND | 0.5 | 0.1 |
| 2,2-Dichloropropane | ND | 0.5 | 0.08 |
| Chloroform | ND | 0.5 | 0.03 |
| Bromochloromethane | ND | 0.5 | 0.2 |
| 1,1,1-Trichloroethane | ND | 0.5 | 0.05 |
| 1,1-Dichloropropene | ND | 0.5 | 0.05 |
| Carbon Tetrachloride | ND | 0.5 | 0.1 |
| 1,2-Dichloroethane | ND | 0.5 | 0.06 |
| Benzene | ND | 0.5 | 0.04 |
| Trichloroethene | ND | 0.5 | 0.07 |
| 1,2-Dichloropropane | ND | 0.5 | 0.07 |
| Bromodichloromethane | ND | 0.5 | 0.08 |
| Dibromomethane | ND | 0.5 | 0.06 |
| 4-Methyl-2-Pentanone | ND | 10 | 0.09 |
| cis-1,3-Dichloropropene | ND | 0.5 | 0.04 |
| Toluene | ND | 0.5 | 0.06 |
| trans-1,3-Dichloropropene | ND | 0.5 | 0.07 |
| 1,1,2-Trichloroethane | ND | 0.5 | 0.09 |
| 2-Hexanone | ND | 10 | 0.1 |
| 1,3-Dichloropropane | ND | 0.5 | 0.05 |
| Tetrachloroethene | ND | 0.5 | 0.09 |
| Dibromochloromethane | ND | 0.5 | 0.08 |
| 1,2-Dibromoethane | ND | 0.5 | 0.05 |
| Chlorobenzene | ND | 0.5 | 0.08 |
| 1,1,1,2-Tetrachloroethane | ND | 0.5 | 0.05 |
| Ethylbenzene | ND | 0.5 | 0.06 |
| m,p-Xylenes | ND | 0.5 | 0.1 |
| o-Xylene | ND | 0.5 | 0.1 |
| Styrene | ND | 0.5 | 0.07 |
| Bromoform | ND | 1.0 | 0.08 |
| Isopropylbenzene | ND | 0.5 | 0.05 |
| 1,1,2,2-Tetrachloroethane | ND | 0.5 | 0.07 |
| 1,2,3-Trichloropropane | ND | 0.5 | 0.2 |
| Propylbenzene | ND | 0.5 | 0.05 |
| Bromobenzene | ND | 0.5 | 0.07 |
| 1,3,5-Trimethylbenzene | ND | 0.5 | 0.08 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



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Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

## Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Type: | BLANK | Diln Fac: | 1.000 |
| Lab ID: | QC305897 | Batch#: | 105042 |
| Matrix: | Water | Analyzed: | 08/22/05 |
| Units: | ug/L | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| 2-Chlorotoluene | ND | 0.5 | 0.05 |
| 4-Chlorotoluene | ND | 0.5 | 0.03 |
| tert-Butylbenzene | ND | 0.5 | 0.04 |
| 1,2,4-Trimethylbenzene | ND | 0.5 | 0.08 |
| sec-Butylbenzene | ND | 0.5 | 0.04 |
| para-Isopropyl Toluene | ND | 0.5 | 0.06 |
| 1,3-Dichlorobenzene | ND | 0.5 | 0.07 |
| 1,4-Dichlorobenzene | ND | 0.5 | 0.09 |
| n-Butylbenzene | ND | 0.5 | 0.05 |
| 1,2-Dichlorobenzene | ND | 0.5 | 0.07 |
| 1,2-Dibromo-3-Chloropropane | ND | 2.0 | 0.3 |
| 1,2,4-Trichlorobenzene | ND | 0.5 | 0.2 |
| Hexachlorobutadiene | ND | 0.5 | 0.2 |
| Naphthalene | ND | 2.0 | 0.2 |
| 1,2,3-Trichlorobenzene | ND | 0.5 | 0.2 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 107 | 80-120 |
| 1,2-Dichloroethane-d4 | 110 | 80-122 |
| Toluene-d8 | 101 | 80-120 |
| Bromofluorobenzene | 98 | 80-124 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



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Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

## Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Type: | BLANK | Diln Fac: | 1.000 |
| Lab ID: | QC305926 | Batch#: | 105049 |
| Matrix: | Water | Analyzed: | 08/22/05 |
| Units: | ug/L | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Freon 12 | ND | 1.0 | 0.2 |
| Chloromethane | ND | 1.0 | 0.09 |
| Vinyl Chloride | ND | 0.5 | 0.2 |
| Bromomethane | ND | 1.0 | 0.2 |
| Chloroethane | ND | 1.0 | 0.1 |
| Ethanol | ND | 1,000 | 36 |
| Trichlorofluoromethane | ND | 1.0 | 0.1 |
| Isopropanol | ND | 100 | 1.1 |
| Acetone | ND | 10 | 0.5 |
| Freon 113 | ND | 5.0 | 0.09 |
| 1,1-Dichloroethene | ND | 0.5 | 0.09 |
| Methylene Chloride | ND | 10 | 0.2 |
| Carbon Disulfide | ND | 0.5 | 0.04 |
| MTBE | ND | 0.5 | 0.05 |
| trans-1,2-Dichloroethene | ND | 0.5 | 0.09 |
| Vinyl Acetate | ND | 10 | 0.1 |
| 1,1-Dichloroethane | ND | 0.5 | 0.06 |
| 2-Butanone | ND | 10 | 0.3 |
| cis-1,2-Dichloroethene | ND | 0.5 | 0.1 |
| 2,2-Dichloropropane | ND | 0.5 | 0.08 |
| Chloroform | 0.1 J | 0.5 | 0.04 |
| Bromochloromethane | ND | 0.5 | 0.2 |
| 1,1,1-Trichloroethane | ND | 0.5 | 0.04 |
| 1,1-Dichloropropene | ND | 0.5 | 0.05 |
| Carbon Tetrachloride | ND | 0.5 | 0.06 |
| 1,2-Dichloroethane | ND | 0.5 | 0.06 |
| Benzene | ND | 0.5 | 0.03 |
| Trichloroethene | ND | 0.5 | 0.09 |
| 1,2-Dichloropropane | ND | 0.5 | 0.1 |
| Bromodichloromethane | ND | 0.5 | 0.07 |
| Dibromomethane | ND | 0.5 | 0.1 |
| 4-Methyl-2-Pentanone | ND | 10 | 0.3 |
| cis-1,3-Dichloropropene | ND | 0.5 | 0.04 |
| Toluene | ND | 0.5 | 0.05 |
| trans-1,3-Dichloropropene | ND | 0.5 | 0.06 |
| 1,1,2-Trichloroethane | ND | 0.5 | 0.06 |
| 2-Hexanone | ND | 10 | 0.1 |
| 1,3-Dichloropropane | ND | 0.5 | 0.07 |
| Tetrachloroethene | ND | 0.5 | 0.09 |
| Dibromochloromethane | ND | 0.5 | 0.06 |
| 1,2-Dibromoethane | ND | 0.5 | 0.07 |
| Chlorobenzene | ND | 0.5 | 0.05 |
| 1,1,1,2-Tetrachloroethane | ND | 0.5 | 0.09 |
| Ethylbenzene | ND | 0.5 | 0.1 |
| m,p-Xylenes | ND | 0.5 | 0.2 |
| o-Xylene | ND | 0.5 | 0.1 |
| Styrene | ND | 0.5 | 0.06 |
| Bromoform | ND | 1.0 | 0.1 |
| Isopropylbenzene | ND | 0.5 | 0.1 |
| 1,1,2,2-Tetrachloroethane | ND | 0.5 | 0.06 |
| 1,2,3-Trichloropropane | ND | 0.5 | 0.2 |
| Propylbenzene | ND | 0.5 | 0.1 |
| Bromobenzene | ND | 0.5 | 0.09 |

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



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Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

## Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Type: | BLANK | Diln Fac: | 1.000 |
| Lab ID: | QC305926 | Batch#: | 105049 |
| Matrix: | Water | Analyzed: | 08/22/05 |
| Units: | ug/L | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| 1,3,5-Trimethylbenzene | ND | 0.5 | 0.1 |
| 2-Chlorotoluene | ND | 0.5 | 0.1 |
| 4-Chlorotoluene | ND | 0.5 | 0.07 |
| tert-Butylbenzene | ND | 0.5 | 0.08 |
| 1,2,4-Trimethylbenzene | ND | 0.5 | 0.1 |
| sec-Butylbenzene | ND | 0.5 | 0.08 |
| para-Isopropyl Toluene | ND | 0.5 | 0.04 |
| 1,3-Dichlorobenzene | ND | 0.5 | 0.1 |
| 1,4-Dichlorobenzene | ND | 0.5 | 0.2 |
| n-Butylbenzene | ND | 0.5 | 0.1 |
| 1,2-Dichlorobenzene | ND | 0.5 | 0.06 |
| 1,2-Dibromo-3-Chloropropane | ND | 2.0 | 0.1 |
| 1,2,4-Trichlorobenzene | ND | 0.5 | 0.2 |
| Hexachlorobutadiene | ND | 0.5 | 0.2 |
| Naphthalene | ND | 2.0 | 0.2 |
| 1,2,3-Trichlorobenzene | ND | 0.5 | 0.3 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 105 | 80-120 |
| 1,2-Dichloroethane-d4 | 112 | 80-122 |
| Toluene-d8 | 102 | 80-120 |
| Bromofluorobenzene | 103 | 80-124 |

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



21.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

## Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Type: | LCS | Diln Fac: | 1.000 |
| Lab ID: | QC305927 | Batch#: | 105049 |
| Matrix: | Water | Analyzed: | 08/22/05 |
| Units: | ug/L | | |

| Analyte | Spiked | Result | %REC | Limits |
|---|---|---|---|---|
| 1,1-Dichloroethene | 25.00 | 23.82 | 95 | 75-121 |
| Benzene | 25.00 | 25.82 | 103 | 80-120 |
| Trichloroethene | 25.00 | 27.06 | 108 | 78-120 |
| Toluene | 25.00 | 27.35 | 109 | 80-120 |
| Chlorobenzene | 25.00 | 27.83 | 111 | 80-120 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 104 | 80-120 |
| 1,2-Dichloroethane-d4 | 111 | 80-122 |
| Toluene-d8 | 103 | 80-120 |
| Bromofluorobenzene | 97 | 80-124 |

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

## Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Field ID: | MW5.2-081605 | Batch#: | 105049 |
| MSS Lab ID: | 181341-006 | Sampled: | 08/16/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Analyzed: | 08/22/05 |
| Diln Fac: | 1.000 | | |

Type: MS Lab ID: QC305928

| Analyte | MSS Result | Spiked | Result | %REC | Limits |
|---|---|---|---|---|---|
| 1,1-Dichloroethene | <0.08940 | 25.00 | 24.42 | 98 | 70-124 |
| Benzene | <0.02734 | 25.00 | 24.53 | 98 | 79-120 |
| Trichloroethene | <0.08663 | 25.00 | 26.14 | 105 | 71-120 |
| Toluene | <0.05252 | 25.00 | 26.54 | 106 | 77-120 |
| Chlorobenzene | <0.04954 | 25.00 | 26.32 | 105 | 80-120 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 108 | 80-120 |
| 1,2-Dichloroethane-d4 | 119 | 80-122 |
| Toluene-d8 | 103 | 80-120 |
| Bromofluorobenzene | 99 | 80-124 |

Type: MSD Lab ID: QC305929

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 25.00 | 24.02 | 96 | 70-124 | 2 | 20 |
| Benzene | 25.00 | 25.01 | 100 | 79-120 | 2 | 20 |
| Trichloroethene | 25.00 | 25.78 | 103 | 71-120 | 1 | 20 |
| Toluene | 25.00 | 26.42 | 106 | 77-120 | 0 | 20 |
| Chlorobenzene | 25.00 | 25.76 | 103 | 80-120 | 2 | 20 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 107 | 80-120 |
| 1,2-Dichloroethane-d4 | 116 | 80-122 |
| Toluene-d8 | 104 | 80-120 |
| Bromofluorobenzene | 100 | 80-124 |

RPD= Relative Percent Difference



24.0

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# Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8270C |
| Field ID: | MW3.6-081605 | Batch#: | 105024 |
| Lab ID: | 181341-005 | Sampled: | 08/16/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Prepared: | 08/20/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/23/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| N-Nitrosodimethylamine | ND | 9.6 | 0.34 |
| Phenol | ND | 9.6 | 0.87 |
| bis(2-Chloroethyl)ether | ND | 9.6 | 0.52 |
| 2-Chlorophenol | ND | 9.6 | 0.86 |
| 1,3-Dichlorobenzene | ND | 9.6 | 0.53 |
| 1,4-Dichlorobenzene | ND | 9.6 | 0.53 |
| Benzyl alcohol | ND | 9.6 | 0.47 |
| 1,2-Dichlorobenzene | ND | 9.6 | 0.51 |
| 2-Methylphenol | ND | 9.6 | 1.0 |
| bis(2-Chloroisopropyl) ether | ND | 9.6 | 0.41 |
| 4-Methylphenol | ND | 9.6 | 0.99 |
| N-Nitroso-di-n-propylamine | ND | 9.6 | 0.48 |
| Hexachloroethane | ND | 9.6 | 0.45 |
| Nitrobenzene | ND | 9.6 | 0.46 |
| Isophorone | ND | 9.6 | 0.48 |
| 2-Nitrophenol | ND | 19 | 1.1 |
| 2,4-Dimethylphenol | ND | 9.6 | 0.93 |
| Benzoic acid | ND | 48 | 13 |
| bis(2-Chloroethoxy)methane | ND | 9.6 | 0.54 |
| 2,4-Dichlorophenol | ND | 9.6 | 0.93 |
| 1,2,4-Trichlorobenzene | ND | 9.6 | 0.48 |
| Naphthalene | ND | 9.6 | 0.52 |
| 4-Chloroaniline | ND | 9.6 | 0.57 |
| Hexachlorobutadiene | ND | 9.6 | 0.37 |
| 4-Chloro-3-methylphenol | ND | 9.6 | 0.96 |
| 2-Methylnaphthalene | ND | 9.6 | 0.63 |
| Hexachlorocyclopentadiene | ND | 19 | 1.0 |
| 2,4,6-Trichlorophenol | ND | 9.6 | 0.84 |
| 2,4,5-Trichlorophenol | ND | 9.6 | 0.75 |
| 2-Chloronaphthalene | ND | 9.6 | 0.43 |
| 2-Nitroaniline | ND | 19 | 0.41 |
| Dimethylphthalate | ND | 9.6 | 0.43 |
| Acenaphthylene | ND | 9.6 | 0.37 |
| 2,6-Dinitrotoluene | ND | 9.6 | 0.42 |
| 3-Nitroaniline | ND | 19 | 0.49 |
| Acenaphthene | ND | 9.6 | 0.42 |
| 2,4-Dinitrophenol | ND | 19 | 3.9 |
| 4-Nitrophenol | ND | 19 | 0.57 |
| Dibenzofuran | ND | 9.6 | 0.61 |
| 2,4-Dinitrotoluene | ND | 9.6 | 0.40 |
| Diethylphthalate | ND | 9.6 | 0.42 |
| Fluorene | ND | 9.6 | 0.46 |
| 4-Chlorophenyl-phenylether | ND | 9.6 | 0.44 |
| 4-Nitroaniline | ND | 19 | 0.57 |
| 4,6-Dinitro-2-methylphenol | ND | 19 | 0.62 |
| N-Nitrosodiphenylamine | ND | 9.6 | 0.48 |
| Azobenzene | ND | 9.6 | 0.50 |
| 4-Bromophenyl-phenylether | ND | 9.6 | 0.41 |
| Hexachlorobenzene | ND | 9.6 | 0.43 |
| Pentachlorophenol | ND | 19 | 0.51 |
| Phenanthrene | ND | 9.6 | 0.53 |
| Anthracene | ND | 9.6 | 0.45 |
| Di-n-butylphthalate | ND | 9.6 | 0.50 |

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



53.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8270C |
| Field ID: | MW3.6-081605 | Batch#: | 105024 |
| Lab ID: | 181341-005 | Sampled: | 08/16/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Prepared: | 08/20/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/23/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Fluoranthene | ND | 9.6 | 0.51 |
| Pyrene | ND | 9.6 | 0.53 |
| Butylbenzylphthalate | ND | 9.6 | 0.48 |
| 3,3'-Dichlorobenzidine | ND | 19 | 0.52 |
| Benzo(a)anthracene | ND | 9.6 | 0.51 |
| Chrysene | ND | 9.6 | 0.44 |
| bis(2-Ethylhexyl)phthalate | 3.6 J | 9.6 | 0.52 |
| Di-n-octylphthalate | ND | 9.6 | 0.40 |
| Benzo(b)fluoranthene | ND | 9.6 | 0.36 |
| Benzo(k)fluoranthene | ND | 9.6 | 0.49 |
| Benzo(a)pyrene | ND | 9.6 | 0.42 |
| Indeno(1,2,3-cd)pyrene | ND | 9.6 | 0.51 |
| Dibenz(a,h)anthracene | ND | 9.6 | 0.53 |
| Benzo(g,h,i)perylene | ND | 9.6 | 0.50 |

| Surrogate | %REC | Limits |
|---|---|---|
| 2-Fluorophenol | 70 | 41-120 |
| Phenol-d5 | 57 | 41-120 |
| 2,4,6-Tribromophenol | 47 | 38-120 |
| Nitrobenzene-d5 | 82 | 47-120 |
| 2-Fluorobiphenyl | 82 | 44-120 |
| Terphenyl-d14 | 77 | 16-120 |

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



53.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8270C |
| Field ID: | MW5.2-081605 | Batch#: | 105024 |
| Lab ID: | 181341-006 | Sampled: | 08/16/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Prepared: | 08/20/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/23/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| N-Nitrosodimethylamine | ND | 9.5 | 1.4 |
| Phenol | ND | 9.5 | 1.1 |
| bis(2-Chloroethyl)ether | ND | 9.5 | 0.62 |
| 2-Chlorophenol | ND | 9.5 | 0.42 |
| 1,3-Dichlorobenzene | ND | 9.5 | 0.31 |
| 1,4-Dichlorobenzene | ND | 9.5 | 0.46 |
| Benzyl alcohol | ND | 9.5 | 0.56 |
| 1,2-Dichlorobenzene | ND | 9.5 | 0.43 |
| 2-Methylphenol | ND | 9.5 | 1.1 |
| bis(2-Chloroisopropyl) ether | ND | 9.5 | 0.79 |
| 4-Methylphenol | ND | 9.5 | 0.41 |
| N-Nitroso-di-n-propylamine | ND | 9.5 | 1.4 |
| Hexachloroethane | ND | 9.5 | 0.40 |
| Nitrobenzene | ND | 9.5 | 0.56 |
| Isophorone | ND | 9.5 | 0.37 |
| 2-Nitrophenol | ND | 19 | 1.6 |
| 2,4-Dimethylphenol | ND | 9.5 | 1.1 |
| Benzoic acid | ND | 48 | 20 |
| bis(2-Chloroethoxy)methane | ND | 9.5 | 0.55 |
| 2,4-Dichlorophenol | ND | 9.5 | 0.69 |
| 1,2,4-Trichlorobenzene | ND | 9.5 | 0.31 |
| Naphthalene | ND | 9.5 | 0.26 |
| 4-Chloroaniline | ND | 9.5 | 0.94 |
| Hexachlorobutadiene | ND | 9.5 | 0.35 |
| 4-Chloro-3-methylphenol | ND | 9.5 | 0.71 |
| 2-Methylnaphthalene | ND | 9.5 | 0.28 |
| Hexachlorocyclopentadiene | ND | 19 | 0.75 |
| 2,4,6-Trichlorophenol | ND | 9.5 | 0.74 |
| 2,4,5-Trichlorophenol | ND | 9.5 | 0.92 |
| 2-Chloronaphthalene | ND | 9.5 | 0.36 |
| 2-Nitroaniline | ND | 19 | 0.84 |
| Dimethylphthalate | ND | 9.5 | 0.24 |
| Acenaphthylene | ND | 9.5 | 0.43 |
| 2,6-Dinitrotoluene | ND | 9.5 | 0.74 |
| 3-Nitroaniline | ND | 19 | 0.69 |
| Acenaphthene | ND | 9.5 | 0.32 |
| 2,4-Dinitrophenol | ND | 19 | 5.0 |
| 4-Nitrophenol | ND | 19 | 1.2 |
| Dibenzofuran | ND | 9.5 | 0.42 |
| 2,4-Dinitrotoluene | ND | 9.5 | 0.23 |
| Diethylphthalate | ND | 9.5 | 0.34 |
| Fluorene | ND | 9.5 | 0.17 |
| 4-Chlorophenyl-phenylether | ND | 9.5 | 0.28 |
| 4-Nitroaniline | ND | 19 | 0.63 |
| 4,6-Dinitro-2-methylphenol | ND | 19 | 0.68 |
| N-Nitrosodiphenylamine | ND | 9.5 | 0.36 |
| Azobenzene | ND | 9.5 | 0.75 |
| 4-Bromophenyl-phenylether | ND | 9.5 | 0.34 |
| Hexachlorobenzene | ND | 9.5 | 0.70 |
| Pentachlorophenol | ND | 19 | 0.72 |
| Phenanthrene | ND | 9.5 | 0.40 |
| Anthracene | ND | 9.5 | 0.28 |
| Di-n-butylphthalate | ND | 9.5 | 0.43 |

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



54.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

## Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8270C |
| Field ID: | MW5.2-081605 | Batch#: | 105024 |
| Lab ID: | 181341-006 | Sampled: | 08/16/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Prepared: | 08/20/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/23/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Fluoranthene | ND | 9.5 | 0.22 |
| Pyrene | ND | 9.5 | 0.38 |
| Butylbenzylphthalate | ND | 9.5 | 0.36 |
| 3,3'-Dichlorobenzidine | ND | 19 | 0.42 |
| Benzo(a)anthracene | ND | 9.5 | 0.58 |
| Chrysene | ND | 9.5 | 0.27 |
| bis(2-Ethylhexyl)phthalate | 8.3 J | 9.5 | 0.51 |
| Di-n-octylphthalate | ND | 9.5 | 0.17 |
| Benzo(b)fluoranthene | ND | 9.5 | 0.15 |
| Benzo(k)fluoranthene | ND | 9.5 | 0.39 |
| Benzo(a)pyrene | ND | 9.5 | 0.14 |
| Indeno(1,2,3-cd)pyrene | ND | 9.5 | 0.40 |
| Dibenz(a,h)anthracene | ND | 9.5 | 0.23 |
| Benzo(g,h,i)perylene | ND | 9.5 | 0.54 |

| Surrogate | %REC | Limits |
|---|---|---|
| 2-Fluorophenol | 66 | 41-120 |
| Phenol-d5 | 68 | 41-120 |
| 2,4,6-Tribromophenol | 74 | 38-120 |
| Nitrobenzene-d5 | 79 | 47-120 |
| 2-Fluorobiphenyl | 79 | 44-120 |
| Terphenyl-d14 | 68 | 16-120 |

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



54.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8270C |
| Field ID: | MWDUP2-081605 | Batch#: | 105024 |
| Lab ID: | 181341-007 | Sampled: | 08/16/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Prepared: | 08/20/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/23/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| N-Nitrosodimethylamine | ND | 9.6 | 1.5 |
| Phenol | ND | 9.6 | 1.1 |
| bis(2-Chloroethyl)ether | ND | 9.6 | 0.62 |
| 2-Chlorophenol | ND | 9.6 | 0.42 |
| 1,3-Dichlorobenzene | ND | 9.6 | 0.32 |
| 1,4-Dichlorobenzene | ND | 9.6 | 0.47 |
| Benzyl alcohol | ND | 9.6 | 0.56 |
| 1,2-Dichlorobenzene | ND | 9.6 | 0.43 |
| 2-Methylphenol | ND | 9.6 | 1.1 |
| bis(2-Chloroisopropyl) ether | ND | 9.6 | 0.80 |
| 4-Methylphenol | ND | 9.6 | 0.41 |
| N-Nitroso-di-n-propylamine | ND | 9.6 | 1.4 |
| Hexachloroethane | ND | 9.6 | 0.40 |
| Nitrobenzene | ND | 9.6 | 0.57 |
| Isophorone | ND | 9.6 | 0.37 |
| 2-Nitrophenol | ND | 19 | 1.6 |
| 2,4-Dimethylphenol | ND | 9.6 | 1.1 |
| Benzoic acid | ND | 48 | 20 |
| bis(2-Chloroethoxy)methane | ND | 9.6 | 0.55 |
| 2,4-Dichlorophenol | ND | 9.6 | 0.69 |
| 1,2,4-Trichlorobenzene | ND | 9.6 | 0.31 |
| Naphthalene | ND | 9.6 | 0.26 |
| 4-Chloroaniline | ND | 9.6 | 0.95 |
| Hexachlorobutadiene | ND | 9.6 | 0.35 |
| 4-Chloro-3-methylphenol | ND | 9.6 | 0.72 |
| 2-Methylnaphthalene | ND | 9.6 | 0.28 |
| Hexachlorocyclopentadiene | ND | 19 | 0.76 |
| 2,4,6-Trichlorophenol | ND | 9.6 | 0.75 |
| 2,4,5-Trichlorophenol | ND | 9.6 | 0.93 |
| 2-Chloronaphthalene | ND | 9.6 | 0.36 |
| 2-Nitroaniline | ND | 19 | 0.85 |
| Dimethylphthalate | ND | 9.6 | 0.24 |
| Acenaphthylene | ND | 9.6 | 0.43 |
| 2,6-Dinitrotoluene | ND | 9.6 | 0.75 |
| 3-Nitroaniline | ND | 19 | 0.70 |
| Acenaphthene | ND | 9.6 | 0.32 |
| 2,4-Dinitrophenol | ND | 19 | 5.1 |
| 4-Nitrophenol | ND | 19 | 1.2 |
| Dibenzofuran | ND | 9.6 | 0.42 |
| 2,4-Dinitrotoluene | ND | 9.6 | 0.23 |
| Diethylphthalate | ND | 9.6 | 0.34 |
| Fluorene | ND | 9.6 | 0.17 |
| 4-Chlorophenyl-phenylether | ND | 9.6 | 0.29 |
| 4-Nitroaniline | ND | 19 | 0.64 |
| 4,6-Dinitro-2-methylphenol | ND | 19 | 0.68 |
| N-Nitrosodiphenylamine | ND | 9.6 | 0.37 |
| Azobenzene | ND | 9.6 | 0.76 |
| 4-Bromophenyl-phenylether | ND | 9.6 | 0.35 |
| Hexachlorobenzene | ND | 9.6 | 0.71 |
| Pentachlorophenol | ND | 19 | 0.72 |
| Phenanthrene | ND | 9.6 | 0.41 |
| Anthracene | ND | 9.6 | 0.29 |
| Di-n-butylphthalate | ND | 9.6 | 0.43 |

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



55.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8270C |
| Field ID: | MWDUP2-081605 | Batch#: | 105024 |
| Lab ID: | 181341-007 | Sampled: | 08/16/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Prepared: | 08/20/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/23/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Fluoranthene | ND | 9.6 | 0.23 |
| Pyrene | ND | 9.6 | 0.38 |
| Butylbenzylphthalate | ND | 9.6 | 0.36 |
| 3,3'-Dichlorobenzidine | ND | 19 | 0.43 |
| Benzo(a)anthracene | ND | 9.6 | 0.59 |
| Chrysene | ND | 9.6 | 0.27 |
| bis(2-Ethylhexyl)phthalate | 0.52 J | 9.6 | 0.51 |
| Di-n-octylphthalate | ND | 9.6 | 0.17 |
| Benzo(b)fluoranthene | ND | 9.6 | 0.15 |
| Benzo(k)fluoranthene | ND | 9.6 | 0.40 |
| Benzo(a)pyrene | ND | 9.6 | 0.14 |
| Indeno(1,2,3-cd)pyrene | ND | 9.6 | 0.40 |
| Dibenz(a,h)anthracene | ND | 9.6 | 0.24 |
| Benzo(g,h,i)perylene | ND | 9.6 | 0.54 |

| Surrogate | %REC | Limits |
|---|---|---|
| 2-Fluorophenol | 67 | 41-120 |
| Phenol-d5 | 70 | 41-120 |
| 2,4,6-Tribromophenol | 75 | 38-120 |
| Nitrobenzene-d5 | 78 | 47-120 |
| 2-Fluorobiphenyl | 82 | 44-120 |
| Terphenyl-d14 | 70 | 16-120 |

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



55.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8270C |
| Field ID: | MW5.3-081605 | Batch#: | 105024 |
| Lab ID: | 181341-008 | Sampled: | 08/16/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Prepared: | 08/20/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/23/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| N-Nitrosodimethylamine | ND | 9.5 | 1.4 |
| Phenol | ND | 9.5 | 1.1 |
| bis(2-Chloroethyl)ether | ND | 9.5 | 0.62 |
| 2-Chlorophenol | ND | 9.5 | 0.42 |
| 1,3-Dichlorobenzene | ND | 9.5 | 0.31 |
| 1,4-Dichlorobenzene | ND | 9.5 | 0.46 |
| Benzyl alcohol | ND | 9.5 | 0.56 |
| 1,2-Dichlorobenzene | ND | 9.5 | 0.43 |
| 2-Methylphenol | ND | 9.5 | 1.1 |
| bis(2-Chloroisopropyl) ether | ND | 9.5 | 0.79 |
| 4-Methylphenol | ND | 9.5 | 0.41 |
| N-Nitroso-di-n-propylamine | ND | 9.5 | 1.4 |
| Hexachloroethane | ND | 9.5 | 0.40 |
| Nitrobenzene | ND | 9.5 | 0.56 |
| Isophorone | ND | 9.5 | 0.37 |
| 2-Nitrophenol | ND | 19 | 1.6 |
| 2,4-Dimethylphenol | ND | 9.5 | 1.1 |
| Benzoic acid | ND | 48 | 20 |
| bis(2-Chloroethoxy)methane | ND | 9.5 | 0.55 |
| 2,4-Dichlorophenol | ND | 9.5 | 0.69 |
| 1,2,4-Trichlorobenzene | ND | 9.5 | 0.31 |
| Naphthalene | 0.90 J | 9.5 | 0.26 |
| 4-Chloroaniline | ND | 9.5 | 0.94 |
| Hexachlorobutadiene | ND | 9.5 | 0.35 |
| 4-Chloro-3-methylphenol | ND | 9.5 | 0.71 |
| 2-Methylnaphthalene | ND | 9.5 | 0.28 |
| Hexachlorocyclopentadiene | ND | 19 | 0.75 |
| 2,4,6-Trichlorophenol | ND | 9.5 | 0.74 |
| 2,4,5-Trichlorophenol | ND | 9.5 | 0.92 |
| 2-Chloronaphthalene | ND | 9.5 | 0.36 |
| 2-Nitroaniline | ND | 19 | 0.84 |
| Dimethylphthalate | ND | 9.5 | 0.24 |
| Acenaphthylene | ND | 9.5 | 0.43 |
| 2,6-Dinitrotoluene | ND | 9.5 | 0.74 |
| 3-Nitroaniline | ND | 19 | 0.69 |
| Acenaphthene | ND | 9.5 | 0.32 |
| 2,4-Dinitrophenol | ND | 19 | 5.0 |
| 4-Nitrophenol | ND | 19 | 1.2 |
| Dibenzofuran | ND | 9.5 | 0.42 |
| 2,4-Dinitrotoluene | ND | 9.5 | 0.23 |
| Diethylphthalate | ND | 9.5 | 0.34 |
| Fluorene | ND | 9.5 | 0.17 |
| 4-Chlorophenyl-phenylether | ND | 9.5 | 0.28 |
| 4-Nitroaniline | ND | 19 | 0.63 |
| 4,6-Dinitro-2-methylphenol | ND | 19 | 0.68 |
| N-Nitrosodiphenylamine | ND | 9.5 | 0.36 |
| Azobenzene | ND | 9.5 | 0.75 |
| 4-Bromophenyl-phenylether | ND | 9.5 | 0.34 |
| Hexachlorobenzene | ND | 9.5 | 0.70 |
| Pentachlorophenol | ND | 19 | 0.72 |
| Phenanthrene | ND | 9.5 | 0.40 |
| Anthracene | ND | 9.5 | 0.28 |
| Di-n-butylphthalate | ND | 9.5 | 0.43 |

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



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Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8270C |
| Field ID: | MW5.3-081605 | Batch#: | 105024 |
| Lab ID: | 181341-008 | Sampled: | 08/16/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Prepared: | 08/20/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/23/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Fluoranthene | ND | 9.5 | 0.22 |
| Pyrene | ND | 9.5 | 0.38 |
| Butylbenzylphthalate | ND | 9.5 | 0.36 |
| 3,3'-Dichlorobenzidine | ND | 19 | 0.42 |
| Benzo(a)anthracene | ND | 9.5 | 0.58 |
| Chrysene | ND | 9.5 | 0.27 |
| bis(2-Ethylhexyl)phthalate | ND | 9.5 | 0.51 |
| Di-n-octylphthalate | ND | 9.5 | 0.17 |
| Benzo(b)fluoranthene | ND | 9.5 | 0.15 |
| Benzo(k)fluoranthene | ND | 9.5 | 0.39 |
| Benzo(a)pyrene | ND | 9.5 | 0.14 |
| Indeno(1,2,3-cd)pyrene | ND | 9.5 | 0.40 |
| Dibenz(a,h)anthracene | ND | 9.5 | 0.23 |
| Benzo(g,h,i)perylene | ND | 9.5 | 0.54 |

| Surrogate | %REC | Limits |
|---|---|---|
| 2-Fluorophenol | 64 | 41-120 |
| Phenol-d5 | 66 | 41-120 |
| 2,4,6-Tribromophenol | 78 | 38-120 |
| Nitrobenzene-d5 | 77 | 47-120 |
| 2-Fluorobiphenyl | 80 | 44-120 |
| Terphenyl-d14 | 46 | 16-120 |

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



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Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8270C |
| Field ID: | MW5.4-081605 | Batch#: | 105024 |
| Lab ID: | 181341-009 | Sampled: | 08/16/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Prepared: | 08/20/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/23/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| N-Nitrosodimethylamine | ND | 9.4 | 1.4 |
| Phenol | ND | 9.4 | 1.1 |
| bis(2-Chloroethyl)ether | ND | 9.4 | 0.61 |
| 2-Chlorophenol | ND | 9.4 | 0.41 |
| 1,3-Dichlorobenzene | ND | 9.4 | 0.31 |
| 1,4-Dichlorobenzene | ND | 9.4 | 0.46 |
| Benzyl alcohol | ND | 9.4 | 0.55 |
| 1,2-Dichlorobenzene | ND | 9.4 | 0.43 |
| 2-Methylphenol | ND | 9.4 | 1.1 |
| bis(2-Chloroisopropyl) ether | ND | 9.4 | 0.79 |
| 4-Methylphenol | ND | 9.4 | 0.40 |
| N-Nitroso-di-n-propylamine | ND | 9.4 | 1.3 |
| Hexachloroethane | ND | 9.4 | 0.39 |
| Nitrobenzene | ND | 9.4 | 0.56 |
| Isophorone | ND | 9.4 | 0.36 |
| 2-Nitrophenol | ND | 19 | 1.5 |
| 2,4-Dimethylphenol | ND | 9.4 | 1.1 |
| Benzoic acid | ND | 47 | 20 |
| bis(2-Chloroethoxy)methane | ND | 9.4 | 0.54 |
| 2,4-Dichlorophenol | ND | 9.4 | 0.68 |
| 1,2,4-Trichlorobenzene | ND | 9.4 | 0.30 |
| Naphthalene | ND | 9.4 | 0.25 |
| 4-Chloroaniline | ND | 9.4 | 0.93 |
| Hexachlorobutadiene | ND | 9.4 | 0.35 |
| 4-Chloro-3-methylphenol | ND | 9.4 | 0.70 |
| 2-Methylnaphthalene | ND | 9.4 | 0.27 |
| Hexachlorocyclopentadiene | ND | 19 | 0.74 |
| 2,4,6-Trichlorophenol | ND | 9.4 | 0.73 |
| 2,4,5-Trichlorophenol | ND | 9.4 | 0.91 |
| 2-Chloronaphthalene | ND | 9.4 | 0.36 |
| 2-Nitroaniline | ND | 19 | 0.83 |
| Dimethylphthalate | ND | 9.4 | 0.23 |
| Acenaphthylene | ND | 9.4 | 0.42 |
| 2,6-Dinitrotoluene | ND | 9.4 | 0.73 |
| 3-Nitroaniline | ND | 19 | 0.69 |
| Acenaphthene | ND | 9.4 | 0.31 |
| 2,4-Dinitrophenol | ND | 19 | 5.0 |
| 4-Nitrophenol | ND | 19 | 1.2 |
| Dibenzofuran | ND | 9.4 | 0.42 |
| 2,4-Dinitrotoluene | ND | 9.4 | 0.22 |
| Diethylphthalate | ND | 9.4 | 0.34 |
| Fluorene | ND | 9.4 | 0.17 |
| 4-Chlorophenyl-phenylether | ND | 9.4 | 0.28 |
| 4-Nitroaniline | ND | 19 | 0.63 |
| 4,6-Dinitro-2-methylphenol | ND | 19 | 0.67 |
| N-Nitrosodiphenylamine | ND | 9.4 | 0.36 |
| Azobenzene | ND | 9.4 | 0.74 |
| 4-Bromophenyl-phenylether | ND | 9.4 | 0.34 |
| Hexachlorobenzene | ND | 9.4 | 0.69 |
| Pentachlorophenol | ND | 19 | 0.71 |
| Phenanthrene | ND | 9.4 | 0.40 |
| Anthracene | ND | 9.4 | 0.28 |
| Di-n-butylphthalate | ND | 9.4 | 0.43 |
| Fluoranthene | ND | 9.4 | 0.22 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



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Analytical Laboratories, Since 1878

# Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8270C |
| Field ID: | MW5.4-081605 | Batch#: | 105024 |
| Lab ID: | 181341-009 | Sampled: | 08/16/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Prepared: | 08/20/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/23/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Pyrene | ND | 9.4 | 0.38 |
| Butylbenzylphthalate | ND | 9.4 | 0.36 |
| 3,3'-Dichlorobenzidine | ND | 19 | 0.42 |
| Benzo(a)anthracene | ND | 9.4 | 0.58 |
| Chrysene | ND | 9.4 | 0.27 |
| bis(2-Ethylhexyl)phthalate | ND | 9.4 | 0.51 |
| Di-n-octylphthalate | ND | 9.4 | 0.17 |
| Benzo(b)fluoranthene | ND | 9.4 | 0.15 |
| Benzo(k)fluoranthene | ND | 9.4 | 0.39 |
| Benzo(a)pyrene | ND | 9.4 | 0.14 |
| Indeno(1,2,3-cd)pyrene | ND | 9.4 | 0.39 |
| Dibenz(a,h)anthracene | ND | 9.4 | 0.23 |
| Benzo(g,h,i)perylene | ND | 9.4 | 0.53 |

| Surrogate | %REC | Limits |
|---|---|---|
| 2-Fluorophenol | 59 | 41-120 |
| Phenol-d5 | 62 | 41-120 |
| 2,4,6-Tribromophenol | 71 | 38-120 |
| Nitrobenzene-d5 | 71 | 47-120 |
| 2-Fluorobiphenyl | 74 | 44-120 |
| Terphenyl-d14 | 63 | 16-120 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



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Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8270C |
| Field ID: | MW3.7-081705 | Batch#: | 105024 |
| Lab ID: | 181341-010 | Sampled: | 08/17/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Prepared: | 08/20/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/23/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| N-Nitrosodimethylamine | ND | 9.6 | 1.5 |
| Phenol | ND | 9.6 | 1.1 |
| bis(2-Chloroethyl)ether | ND | 9.6 | 0.62 |
| 2-Chlorophenol | ND | 9.6 | 0.42 |
| 1,3-Dichlorobenzene | ND | 9.6 | 0.32 |
| 1,4-Dichlorobenzene | ND | 9.6 | 0.47 |
| Benzyl alcohol | ND | 9.6 | 0.56 |
| 1,2-Dichlorobenzene | ND | 9.6 | 0.43 |
| 2-Methylphenol | ND | 9.6 | 1.1 |
| bis(2-Chloroisopropyl) ether | ND | 9.6 | 0.80 |
| 4-Methylphenol | ND | 9.6 | 0.41 |
| N-Nitroso-di-n-propylamine | ND | 9.6 | 1.4 |
| Hexachloroethane | ND | 9.6 | 0.40 |
| Nitrobenzene | ND | 9.6 | 0.57 |
| Isophorone | ND | 9.6 | 0.37 |
| 2-Nitrophenol | ND | 19 | 1.6 |
| 2,4-Dimethylphenol | ND | 9.6 | 1.1 |
| Benzoic acid | ND | 48 | 20 |
| bis(2-Chloroethoxy)methane | ND | 9.6 | 0.55 |
| 2,4-Dichlorophenol | ND | 9.6 | 0.69 |
| 1,2,4-Trichlorobenzene | ND | 9.6 | 0.31 |
| Naphthalene | ND | 9.6 | 0.26 |
| 4-Chloroaniline | ND | 9.6 | 0.95 |
| Hexachlorobutadiene | ND | 9.6 | 0.35 |
| 4-Chloro-3-methylphenol | ND | 9.6 | 0.72 |
| 2-Methylnaphthalene | ND | 9.6 | 0.28 |
| Hexachlorocyclopentadiene | ND | 19 | 0.76 |
| 2,4,6-Trichlorophenol | ND | 9.6 | 0.75 |
| 2,4,5-Trichlorophenol | ND | 9.6 | 0.93 |
| 2-Chloronaphthalene | ND | 9.6 | 0.36 |
| 2-Nitroaniline | ND | 19 | 0.85 |
| Dimethylphthalate | ND | 9.6 | 0.24 |
| Acenaphthylene | ND | 9.6 | 0.43 |
| 2,6-Dinitrotoluene | ND | 9.6 | 0.75 |
| 3-Nitroaniline | ND | 19 | 0.70 |
| Acenaphthene | ND | 9.6 | 0.32 |
| 2,4-Dinitrophenol | ND | 19 | 5.1 |
| 4-Nitrophenol | ND | 19 | 1.2 |
| Dibenzofuran | ND | 9.6 | 0.42 |
| 2,4-Dinitrotoluene | ND | 9.6 | 0.23 |
| Diethylphthalate | ND | 9.6 | 0.34 |
| Fluorene | ND | 9.6 | 0.17 |
| 4-Chlorophenyl-phenylether | ND | 9.6 | 0.29 |
| 4-Nitroaniline | ND | 19 | 0.64 |
| 4,6-Dinitro-2-methylphenol | ND | 19 | 0.68 |
| N-Nitrosodiphenylamine | ND | 9.6 | 0.37 |
| Azobenzene | ND | 9.6 | 0.76 |
| 4-Bromophenyl-phenylether | ND | 9.6 | 0.35 |
| Hexachlorobenzene | ND | 9.6 | 0.71 |
| Pentachlorophenol | ND | 19 | 0.72 |
| Phenanthrene | ND | 9.6 | 0.41 |
| Anthracene | ND | 9.6 | 0.29 |
| Di-n-butylphthalate | ND | 9.6 | 0.43 |
| Fluoranthene | ND | 9.6 | 0.23 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



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Analytical Laboratories, Since 1878

## Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8270C |
| Field ID: | MW3.7-081705 | Batch#: | 105024 |
| Lab ID: | 181341-010 | Sampled: | 08/17/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Prepared: | 08/20/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/23/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Pyrene | ND | 9.6 | 0.38 |
| Butylbenzylphthalate | ND | 9.6 | 0.36 |
| 3,3'-Dichlorobenzidine | ND | 19 | 0.43 |
| Benzo(a)anthracene | ND | 9.6 | 0.59 |
| Chrysene | ND | 9.6 | 0.27 |
| bis(2-Ethylhexyl)phthalate | 11 | 9.6 | 0.51 |
| Di-n-octylphthalate | ND | 9.6 | 0.17 |
| Benzo(b)fluoranthene | ND | 9.6 | 0.15 |
| Benzo(k)fluoranthene | ND | 9.6 | 0.40 |
| Benzo(a)pyrene | ND | 9.6 | 0.14 |
| Indeno(1,2,3-cd)pyrene | ND | 9.6 | 0.40 |
| Dibenz(a,h)anthracene | ND | 9.6 | 0.24 |
| Benzo(g,h,i)perylene | ND | 9.6 | 0.54 |

| Surrogate | %REC | Limits |
|---|---|---|
| 2-Fluorophenol | 66 | 41-120 |
| Phenol-d5 | 69 | 41-120 |
| 2,4,6-Tribromophenol | 82 | 38-120 |
| Nitrobenzene-d5 | 81 | 47-120 |
| 2-Fluorobiphenyl | 87 | 44-120 |
| Terphenyl-d14 | 74 | 16-120 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



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Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8270C |
| Field ID: | MW3.8-081705 | Batch#: | 105024 |
| Lab ID: | 181341-011 | Sampled: | 08/17/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Prepared: | 08/20/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/23/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| N-Nitrosodimethylamine | ND | 9.5 | 1.4 |
| Phenol | ND | 9.5 | 1.1 |
| bis(2-Chloroethyl)ether | ND | 9.5 | 0.62 |
| 2-Chlorophenol | ND | 9.5 | 0.42 |
| 1,3-Dichlorobenzene | ND | 9.5 | 0.31 |
| 1,4-Dichlorobenzene | ND | 9.5 | 0.46 |
| Benzyl alcohol | ND | 9.5 | 0.56 |
| 1,2-Dichlorobenzene | ND | 9.5 | 0.43 |
| 2-Methylphenol | ND | 9.5 | 1.1 |
| bis(2-Chloroisopropyl) ether | ND | 9.5 | 0.79 |
| 4-Methylphenol | ND | 9.5 | 0.41 |
| N-Nitroso-di-n-propylamine | ND | 9.5 | 1.4 |
| Hexachloroethane | ND | 9.5 | 0.40 |
| Nitrobenzene | ND | 9.5 | 0.56 |
| Isophorone | ND | 9.5 | 0.37 |
| 2-Nitrophenol | ND | 19 | 1.6 |
| 2,4-Dimethylphenol | ND | 9.5 | 1.1 |
| Benzoic acid | ND | 48 | 20 |
| bis(2-Chloroethoxy)methane | ND | 9.5 | 0.55 |
| 2,4-Dichlorophenol | ND | 9.5 | 0.69 |
| 1,2,4-Trichlorobenzene | ND | 9.5 | 0.31 |
| Naphthalene | ND | 9.5 | 0.26 |
| 4-Chloroaniline | ND | 9.5 | 0.94 |
| Hexachlorobutadiene | ND | 9.5 | 0.35 |
| 4-Chloro-3-methylphenol | ND | 9.5 | 0.71 |
| 2-Methylnaphthalene | ND | 9.5 | 0.28 |
| Hexachlorocyclopentadiene | ND | 19 | 0.75 |
| 2,4,6-Trichlorophenol | ND | 9.5 | 0.74 |
| 2,4,5-Trichlorophenol | ND | 9.5 | 0.92 |
| 2-Chloronaphthalene | ND | 9.5 | 0.36 |
| 2-Nitroaniline | ND | 19 | 0.84 |
| Dimethylphthalate | ND | 9.5 | 0.24 |
| Acenaphthylene | ND | 9.5 | 0.43 |
| 2,6-Dinitrotoluene | ND | 9.5 | 0.74 |
| 3-Nitroaniline | ND | 19 | 0.69 |
| Acenaphthene | ND | 9.5 | 0.32 |
| 2,4-Dinitrophenol | ND | 19 | 5.0 |
| 4-Nitrophenol | ND | 19 | 1.2 |
| Dibenzofuran | ND | 9.5 | 0.42 |
| 2,4-Dinitrotoluene | ND | 9.5 | 0.23 |
| Diethylphthalate | ND | 9.5 | 0.34 |
| Fluorene | ND | 9.5 | 0.17 |
| 4-Chlorophenyl-phenylether | ND | 9.5 | 0.28 |
| 4-Nitroaniline | ND | 19 | 0.63 |
| 4,6-Dinitro-2-methylphenol | ND | 19 | 0.68 |
| N-Nitrosodiphenylamine | ND | 9.5 | 0.36 |
| Azobenzene | ND | 9.5 | 0.75 |
| 4-Bromophenyl-phenylether | ND | 9.5 | 0.34 |
| Hexachlorobenzene | ND | 9.5 | 0.70 |
| Pentachlorophenol | ND | 19 | 0.72 |
| Phenanthrene | ND | 9.5 | 0.40 |
| Anthracene | ND | 9.5 | 0.28 |
| Di-n-butylphthalate | ND | 9.5 | 0.43 |
| Fluoranthene | ND | 9.5 | 0.22 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



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Analytical Laboratories, Since 1878

# Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8270C |
| Field ID: | MW3.8-081705 | Batch#: | 105024 |
| Lab ID: | 181341-011 | Sampled: | 08/17/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Prepared: | 08/20/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/23/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Pyrene | ND | 9.5 | 0.38 |
| Butylbenzylphthalate | ND | 9.5 | 0.36 |
| 3,3'-Dichlorobenzidine | ND | 19 | 0.42 |
| Benzo(a)anthracene | ND | 9.5 | 0.58 |
| Chrysene | ND | 9.5 | 0.27 |
| bis(2-Ethylhexyl)phthalate | ND | 9.5 | 0.51 |
| Di-n-octylphthalate | ND | 9.5 | 0.17 |
| Benzo(b)fluoranthene | ND | 9.5 | 0.15 |
| Benzo(k)fluoranthene | ND | 9.5 | 0.39 |
| Benzo(a)pyrene | ND | 9.5 | 0.14 |
| Indeno(1,2,3-cd)pyrene | ND | 9.5 | 0.40 |
| Dibenz(a,h)anthracene | ND | 9.5 | 0.23 |
| Benzo(g,h,i)perylene | ND | 9.5 | 0.54 |

| Surrogate | %REC | Limits |
|---|---|---|
| 2-Fluorophenol | 58 | 41-120 |
| Phenol-d5 | 60 | 41-120 |
| 2,4,6-Tribromophenol | 72 | 38-120 |
| Nitrobenzene-d5 | 70 | 47-120 |
| 2-Fluorobiphenyl | 70 | 44-120 |
| Terphenyl-d14 | 56 | 16-120 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



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Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8270C |
| Field ID: | MW3.9-081705 | Batch#: | 105024 |
| Lab ID: | 181341-012 | Sampled: | 08/17/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Prepared: | 08/20/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/24/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| N-Nitrosodimethylamine | ND | 9.5 | 1.4 |
| Phenol | ND | 9.5 | 1.1 |
| bis(2-Chloroethyl)ether | ND | 9.5 | 0.62 |
| 2-Chlorophenol | ND | 9.5 | 0.42 |
| 1,3-Dichlorobenzene | ND | 9.5 | 0.31 |
| 1,4-Dichlorobenzene | ND | 9.5 | 0.46 |
| Benzyl alcohol | ND | 9.5 | 0.56 |
| 1,2-Dichlorobenzene | ND | 9.5 | 0.43 |
| 2-Methylphenol | ND | 9.5 | 1.1 |
| bis(2-Chloroisopropyl) ether | ND | 9.5 | 0.79 |
| 4-Methylphenol | ND | 9.5 | 0.41 |
| N-Nitroso-di-n-propylamine | ND | 9.5 | 1.4 |
| Hexachloroethane | ND | 9.5 | 0.40 |
| Nitrobenzene | ND | 9.5 | 0.56 |
| Isophorone | ND | 9.5 | 0.37 |
| 2-Nitrophenol | ND | 19 | 1.6 |
| 2,4-Dimethylphenol | ND | 9.5 | 1.1 |
| Benzoic acid | ND | 48 | 20 |
| bis(2-Chloroethoxy)methane | ND | 9.5 | 0.55 |
| 2,4-Dichlorophenol | ND | 9.5 | 0.69 |
| 1,2,4-Trichlorobenzene | ND | 9.5 | 0.31 |
| Naphthalene | ND | 9.5 | 0.26 |
| 4-Chloroaniline | ND | 9.5 | 0.94 |
| Hexachlorobutadiene | ND | 9.5 | 0.35 |
| 4-Chloro-3-methylphenol | ND | 9.5 | 0.71 |
| 2-Methylnaphthalene | ND | 9.5 | 0.28 |
| Hexachlorocyclopentadiene | ND | 19 | 0.75 |
| 2,4,6-Trichlorophenol | ND | 9.5 | 0.74 |
| 2,4,5-Trichlorophenol | ND | 9.5 | 0.92 |
| 2-Chloronaphthalene | ND | 9.5 | 0.36 |
| 2-Nitroaniline | ND | 19 | 0.84 |
| Dimethylphthalate | ND | 9.5 | 0.24 |
| Acenaphthylene | ND | 9.5 | 0.43 |
| 2,6-Dinitrotoluene | ND | 9.5 | 0.74 |
| 3-Nitroaniline | ND | 19 | 0.69 |
| Acenaphthene | ND | 9.5 | 0.32 |
| 2,4-Dinitrophenol | ND | 19 | 5.0 |
| 4-Nitrophenol | ND | 19 | 1.2 |
| Dibenzofuran | ND | 9.5 | 0.42 |
| 2,4-Dinitrotoluene | ND | 9.5 | 0.23 |
| Diethylphthalate | ND | 9.5 | 0.34 |
| Fluorene | ND | 9.5 | 0.17 |
| 4-Chlorophenyl-phenylether | ND | 9.5 | 0.28 |
| 4-Nitroaniline | ND | 19 | 0.63 |
| 4,6-Dinitro-2-methylphenol | ND | 19 | 0.68 |
| N-Nitrosodiphenylamine | ND | 9.5 | 0.36 |
| Azobenzene | ND | 9.5 | 0.75 |
| 4-Bromophenyl-phenylether | ND | 9.5 | 0.34 |
| Hexachlorobenzene | ND | 9.5 | 0.70 |
| Pentachlorophenol | ND | 19 | 0.72 |
| Phenanthrene | ND | 9.5 | 0.40 |
| Anthracene | ND | 9.5 | 0.28 |
| Di-n-butylphthalate | ND | 9.5 | 0.43 |
| Fluoranthene | ND | 9.5 | 0.22 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



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Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8270C |
| Field ID: | MW3.9-081705 | Batch#: | 105024 |
| Lab ID: | 181341-012 | Sampled: | 08/17/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Prepared: | 08/20/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/24/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Pyrene | ND | 9.5 | 0.38 |
| Butylbenzylphthalate | ND | 9.5 | 0.36 |
| 3,3'-Dichlorobenzidine | ND | 19 | 0.42 |
| Benzo(a)anthracene | ND | 9.5 | 0.58 |
| Chrysene | ND | 9.5 | 0.27 |
| bis(2-Ethylhexyl)phthalate | ND | 9.5 | 0.51 |
| Di-n-octylphthalate | ND | 9.5 | 0.17 |
| Benzo(b)fluoranthene | ND | 9.5 | 0.15 |
| Benzo(k)fluoranthene | ND | 9.5 | 0.39 |
| Benzo(a)pyrene | ND | 9.5 | 0.14 |
| Indeno(1,2,3-cd)pyrene | ND | 9.5 | 0.40 |
| Dibenz(a,h)anthracene | ND | 9.5 | 0.23 |
| Benzo(g,h,i)perylene | ND | 9.5 | 0.54 |

| Surrogate | %REC | Limits |
|---|---|---|
| 2-Fluorophenol | 69 | 41-120 |
| Phenol-d5 | 72 | 41-120 |
| 2,4,6-Tribromophenol | 82 | 38-120 |
| Nitrobenzene-d5 | 81 | 47-120 |
| 2-Fluorobiphenyl | 88 | 44-120 |
| Terphenyl-d14 | 77 | 16-120 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



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# Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8270C |
| Field ID: | MW5.5-081705 | Batch#: | 105024 |
| Lab ID: | 181341-013 | Sampled: | 08/17/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Prepared: | 08/20/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/24/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| N-Nitrosodimethylamine | ND | 9.6 | 1.5 |
| Phenol | ND | 9.6 | 1.1 |
| bis(2-Chloroethyl)ether | ND | 9.6 | 0.62 |
| 2-Chlorophenol | ND | 9.6 | 0.42 |
| 1,3-Dichlorobenzene | ND | 9.6 | 0.32 |
| 1,4-Dichlorobenzene | ND | 9.6 | 0.47 |
| Benzyl alcohol | ND | 9.6 | 0.56 |
| 1,2-Dichlorobenzene | ND | 9.6 | 0.43 |
| 2-Methylphenol | ND | 9.6 | 1.1 |
| bis(2-Chloroisopropyl) ether | ND | 9.6 | 0.80 |
| 4-Methylphenol | ND | 9.6 | 0.41 |
| N-Nitroso-di-n-propylamine | ND | 9.6 | 1.4 |
| Hexachloroethane | ND | 9.6 | 0.40 |
| Nitrobenzene | ND | 9.6 | 0.57 |
| Isophorone | ND | 9.6 | 0.37 |
| 2-Nitrophenol | ND | 19 | 1.6 |
| 2,4-Dimethylphenol | ND | 9.6 | 1.1 |
| Benzoic acid | ND | 48 | 20 |
| bis(2-Chloroethoxy)methane | ND | 9.6 | 0.55 |
| 2,4-Dichlorophenol | ND | 9.6 | 0.69 |
| 1,2,4-Trichlorobenzene | ND | 9.6 | 0.31 |
| Naphthalene | ND | 9.6 | 0.26 |
| 4-Chloroaniline | ND | 9.6 | 0.95 |
| Hexachlorobutadiene | ND | 9.6 | 0.35 |
| 4-Chloro-3-methylphenol | ND | 9.6 | 0.72 |
| 2-Methylnaphthalene | ND | 9.6 | 0.28 |
| Hexachlorocyclopentadiene | ND | 19 | 0.76 |
| 2,4,6-Trichlorophenol | ND | 9.6 | 0.75 |
| 2,4,5-Trichlorophenol | ND | 9.6 | 0.93 |
| 2-Chloronaphthalene | ND | 9.6 | 0.36 |
| 2-Nitroaniline | ND | 19 | 0.85 |
| Dimethylphthalate | ND | 9.6 | 0.24 |
| Acenaphthylene | ND | 9.6 | 0.43 |
| 2,6-Dinitrotoluene | ND | 9.6 | 0.75 |
| 3-Nitroaniline | ND | 19 | 0.70 |
| Acenaphthene | ND | 9.6 | 0.32 |
| 2,4-Dinitrophenol | ND | 19 | 5.1 |
| 4-Nitrophenol | ND | 19 | 1.2 |
| Dibenzofuran | ND | 9.6 | 0.42 |
| 2,4-Dinitrotoluene | ND | 9.6 | 0.23 |
| Diethylphthalate | ND | 9.6 | 0.34 |
| Fluorene | ND | 9.6 | 0.17 |
| 4-Chlorophenyl-phenylether | ND | 9.6 | 0.29 |
| 4-Nitroaniline | ND | 19 | 0.64 |
| 4,6-Dinitro-2-methylphenol | ND | 19 | 0.68 |
| N-Nitrosodiphenylamine | ND | 9.6 | 0.37 |
| Azobenzene | ND | 9.6 | 0.76 |
| 4-Bromophenyl-phenylether | ND | 9.6 | 0.35 |
| Hexachlorobenzene | ND | 9.6 | 0.71 |
| Pentachlorophenol | ND | 19 | 0.72 |
| Phenanthrene | ND | 9.6 | 0.41 |
| Anthracene | ND | 9.6 | 0.29 |
| Di-n-butylphthalate | ND | 9.6 | 0.43 |

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



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Analytical Laboratories, Since 1878

# Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8270C |
| Field ID: | MW5.5-081705 | Batch#: | 105024 |
| Lab ID: | 181341-013 | Sampled: | 08/17/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Prepared: | 08/20/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/24/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Fluoranthene | ND | 9.6 | 0.23 |
| Pyrene | ND | 9.6 | 0.38 |
| Butylbenzylphthalate | ND | 9.6 | 0.36 |
| 3,3'-Dichlorobenzidine | ND | 19 | 0.43 |
| Benzo(a)anthracene | ND | 9.6 | 0.59 |
| Chrysene | ND | 9.6 | 0.27 |
| bis(2-Ethylhexyl)phthalate | 1.3 J | 9.6 | 0.51 |
| Di-n-octylphthalate | ND | 9.6 | 0.17 |
| Benzo(b)fluoranthene | ND | 9.6 | 0.15 |
| Benzo(k)fluoranthene | ND | 9.6 | 0.40 |
| Benzo(a)pyrene | ND | 9.6 | 0.14 |
| Indeno(1,2,3-cd)pyrene | ND | 9.6 | 0.40 |
| Dibenz(a,h)anthracene | ND | 9.6 | 0.24 |
| Benzo(g,h,i)perylene | ND | 9.6 | 0.54 |

| Surrogate | %REC | Limits |
|---|---|---|
| 2-Fluorophenol | 71 | 41-120 |
| Phenol-d5 | 73 | 41-120 |
| 2,4,6-Tribromophenol | 87 | 38-120 |
| Nitrobenzene-d5 | 82 | 47-120 |
| 2-Fluorobiphenyl | 86 | 44-120 |
| Terphenyl-d14 | 63 | 16-120 |

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



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Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8270C |
| Field ID: | MW5.6-081705 | Batch#: | 105024 |
| Lab ID: | 181341-014 | Sampled: | 08/17/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Prepared: | 08/20/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/24/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| N-Nitrosodimethylamine | ND | 9.6 | 1.5 |
| Phenol | ND | 9.6 | 1.1 |
| bis(2-Chloroethyl)ether | ND | 9.6 | 0.62 |
| 2-Chlorophenol | ND | 9.6 | 0.42 |
| 1,3-Dichlorobenzene | ND | 9.6 | 0.32 |
| 1,4-Dichlorobenzene | ND | 9.6 | 0.47 |
| Benzyl alcohol | ND | 9.6 | 0.56 |
| 1,2-Dichlorobenzene | ND | 9.6 | 0.43 |
| 2-Methylphenol | ND | 9.6 | 1.1 |
| bis(2-Chloroisopropyl) ether | ND | 9.6 | 0.80 |
| 4-Methylphenol | ND | 9.6 | 0.41 |
| N-Nitroso-di-n-propylamine | ND | 9.6 | 1.4 |
| Hexachloroethane | ND | 9.6 | 0.40 |
| Nitrobenzene | ND | 9.6 | 0.57 |
| Isophorone | ND | 9.6 | 0.37 |
| 2-Nitrophenol | ND | 19 | 1.6 |
| 2,4-Dimethylphenol | ND | 9.6 | 1.1 |
| Benzoic acid | ND | 48 | 20 |
| bis(2-Chloroethoxy)methane | ND | 9.6 | 0.55 |
| 2,4-Dichlorophenol | ND | 9.6 | 0.69 |
| 1,2,4-Trichlorobenzene | ND | 9.6 | 0.31 |
| Naphthalene | ND | 9.6 | 0.26 |
| 4-Chloroaniline | ND | 9.6 | 0.95 |
| Hexachlorobutadiene | ND | 9.6 | 0.35 |
| 4-Chloro-3-methylphenol | ND | 9.6 | 0.72 |
| 2-Methylnaphthalene | ND | 9.6 | 0.28 |
| Hexachlorocyclopentadiene | ND | 19 | 0.76 |
| 2,4,6-Trichlorophenol | ND | 9.6 | 0.75 |
| 2,4,5-Trichlorophenol | ND | 9.6 | 0.93 |
| 2-Chloronaphthalene | ND | 9.6 | 0.36 |
| 2-Nitroaniline | ND | 19 | 0.85 |
| Dimethylphthalate | ND | 9.6 | 0.24 |
| Acenaphthylene | ND | 9.6 | 0.43 |
| 2,6-Dinitrotoluene | ND | 9.6 | 0.75 |
| 3-Nitroaniline | ND | 19 | 0.70 |
| Acenaphthene | ND | 9.6 | 0.32 |
| 2,4-Dinitrophenol | ND | 19 | 5.1 |
| 4-Nitrophenol | ND | 19 | 1.2 |
| Dibenzofuran | ND | 9.6 | 0.42 |
| 2,4-Dinitrotoluene | ND | 9.6 | 0.23 |
| Diethylphthalate | ND | 9.6 | 0.34 |
| Fluorene | ND | 9.6 | 0.17 |
| 4-Chlorophenyl-phenylether | ND | 9.6 | 0.29 |
| 4-Nitroaniline | ND | 19 | 0.64 |
| 4,6-Dinitro-2-methylphenol | ND | 19 | 0.68 |
| N-Nitrosodiphenylamine | ND | 9.6 | 0.37 |
| Azobenzene | ND | 9.6 | 0.76 |
| 4-Bromophenyl-phenylether | ND | 9.6 | 0.35 |
| Hexachlorobenzene | ND | 9.6 | 0.71 |
| Pentachlorophenol | ND | 19 | 0.72 |
| Phenanthrene | ND | 9.6 | 0.41 |
| Anthracene | ND | 9.6 | 0.29 |
| Di-n-butylphthalate | ND | 9.6 | 0.43 |

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



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Analytical Laboratories, Since 1878

# Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8270C |
| Field ID: | MW5.6-081705 | Batch#: | 105024 |
| Lab ID: | 181341-014 | Sampled: | 08/17/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Prepared: | 08/20/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/24/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Fluoranthene | ND | 9.6 | 0.23 |
| Pyrene | ND | 9.6 | 0.38 |
| Butylbenzylphthalate | ND | 9.6 | 0.36 |
| 3,3'-Dichlorobenzidine | ND | 19 | 0.43 |
| Benzo(a)anthracene | ND | 9.6 | 0.59 |
| Chrysene | ND | 9.6 | 0.27 |
| bis(2-Ethylhexyl)phthalate | 1.6 J | 9.6 | 0.51 |
| Di-n-octylphthalate | ND | 9.6 | 0.17 |
| Benzo(b)fluoranthene | ND | 9.6 | 0.15 |
| Benzo(k)fluoranthene | ND | 9.6 | 0.40 |
| Benzo(a)pyrene | ND | 9.6 | 0.14 |
| Indeno(1,2,3-cd)pyrene | ND | 9.6 | 0.40 |
| Dibenz(a,h)anthracene | ND | 9.6 | 0.24 |
| Benzo(g,h,i)perylene | ND | 9.6 | 0.54 |

| Surrogate | %REC | Limits |
|---|---|---|
| 2-Fluorophenol | 69 | 41-120 |
| Phenol-d5 | 69 | 41-120 |
| 2,4,6-Tribromophenol | 77 | 38-120 |
| Nitrobenzene-d5 | 81 | 47-120 |
| 2-Fluorobiphenyl | 85 | 44-120 |
| Terphenyl-d14 | 60 | 16-120 |

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



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Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8270C |
| Field ID: | MW5.7-081705 | Batch#: | 105054 |
| Lab ID: | 181341-015 | Sampled: | 08/17/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Prepared: | 08/22/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/23/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| N-Nitrosodimethylamine | ND | 9.6 | 0.92 |
| Phenol | ND | 9.6 | 0.40 |
| bis(2-Chloroethyl)ether | ND | 9.6 | 0.46 |
| 2-Chlorophenol | ND | 9.6 | 0.64 |
| 1,3-Dichlorobenzene | ND | 9.6 | 0.66 |
| 1,4-Dichlorobenzene | ND | 9.6 | 0.54 |
| Benzyl alcohol | ND | 9.6 | 0.52 |
| 1,2-Dichlorobenzene | ND | 9.6 | 0.36 |
| 2-Methylphenol | ND | 9.6 | 0.99 |
| bis(2-Chloroisopropyl) ether | ND | 9.6 | 0.52 |
| 4-Methylphenol | ND | 9.6 | 0.56 |
| N-Nitroso-di-n-propylamine | ND | 9.6 | 0.62 |
| Hexachloroethane | ND | 9.6 | 0.75 |
| Nitrobenzene | ND | 9.6 | 0.26 |
| Isophorone | ND | 9.6 | 0.47 |
| 2-Nitrophenol | ND | 19 | 0.88 |
| 2,4-Dimethylphenol | ND | 9.6 | 0.99 |
| Benzoic acid | 0.93 J | 48 | 0.13 |
| bis(2-Chloroethoxy)methane | ND | 9.6 | 0.51 |
| 2,4-Dichlorophenol | ND | 9.6 | 0.40 |
| 1,2,4-Trichlorobenzene | ND | 9.6 | 0.57 |
| Naphthalene | ND | 9.6 | 0.30 |
| 4-Chloroaniline | ND | 9.6 | 2.3 |
| Hexachlorobutadiene | ND | 9.6 | 0.74 |
| 4-Chloro-3-methylphenol | ND | 9.6 | 0.58 |
| 2-Methylnaphthalene | ND | 9.6 | 0.64 |
| Hexachlorocyclopentadiene | ND | 19 | 0.31 |
| 2,4,6-Trichlorophenol | ND | 9.6 | 1.0 |
| 2,4,5-Trichlorophenol | ND | 9.6 | 1.1 |
| 2-Chloronaphthalene | ND | 9.6 | 0.36 |
| 2-Nitroaniline | ND | 19 | 0.75 |
| Dimethylphthalate | ND | 9.6 | 0.41 |
| Acenaphthylene | ND | 9.6 | 0.33 |
| 2,6-Dinitrotoluene | ND | 9.6 | 0.43 |
| 3-Nitroaniline | ND | 19 | 0.38 |
| Acenaphthene | ND | 9.6 | 0.33 |
| 2,4-Dinitrophenol | ND | 19 | 0.43 |
| 4-Nitrophenol | ND | 19 | 1.8 |
| Dibenzofuran | ND | 9.6 | 1.1 |
| 2,4-Dinitrotoluene | ND | 9.6 | 0.29 |
| Diethylphthalate | ND | 9.6 | 0.32 |
| Fluorene | ND | 9.6 | 0.93 |
| 4-Chlorophenyl-phenylether | ND | 9.6 | 0.76 |
| 4-Nitroaniline | ND | 19 | 0.97 |
| 4,6-Dinitro-2-methylphenol | ND | 19 | 1.1 |
| N-Nitrosodiphenylamine | ND | 9.6 | 0.29 |
| Azobenzene | ND | 9.6 | 0.58 |
| 4-Bromophenyl-phenylether | ND | 9.6 | 0.47 |
| Hexachlorobenzene | ND | 9.6 | 0.55 |
| Pentachlorophenol | ND | 19 | 0.45 |
| Phenanthrene | ND | 9.6 | 0.56 |
| Anthracene | ND | 9.6 | 0.26 |
| Di-n-butylphthalate | ND | 9.6 | 0.37 |

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



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Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8270C |
| Field ID: | MW5.7-081705 | Batch#: | 105054 |
| Lab ID: | 181341-015 | Sampled: | 08/17/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Prepared: | 08/22/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/23/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Fluoranthene | ND | 9.6 | 0.45 |
| Pyrene | ND | 9.6 | 0.53 |
| Butylbenzylphthalate | ND | 9.6 | 0.49 |
| 3,3'-Dichlorobenzidine | ND | 19 | 0.43 |
| Benzo(a)anthracene | ND | 9.6 | 0.61 |
| Chrysene | ND | 9.6 | 0.66 |
| bis(2-Ethylhexyl)phthalate | 1.3 J | 9.6 | 1.1 |
| Di-n-octylphthalate | ND | 9.6 | 0.13 |
| Benzo(b)fluoranthene | ND | 9.6 | 0.43 |
| Benzo(k)fluoranthene | ND | 9.6 | 0.50 |
| Benzo(a)pyrene | ND | 9.6 | 0.50 |
| Indeno(1,2,3-cd)pyrene | ND | 9.6 | 0.31 |
| Dibenz(a,h)anthracene | ND | 9.6 | 0.28 |
| Benzo(g,h,i)perylene | ND | 9.6 | 0.27 |

| Surrogate | %REC | Limits |
|---|---|---|
| 2-Fluorophenol | 81 | 41-120 |
| Phenol-d5 | 73 | 41-120 |
| 2,4,6-Tribromophenol | 101 | 38-120 |
| Nitrobenzene-d5 | 87 | 47-120 |
| 2-Fluorobiphenyl | 103 | 44-120 |
| Terphenyl-d14 | 67 | 16-120 |

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



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Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

## Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8270C |
| Type: | BLANK | Diln Fac: | 1.000 |
| Lab ID: | QC305819 | Batch#: | 105024 |
| Matrix: | Water | Prepared: | 08/20/05 |
| Units: | ug/L | Analyzed: | 08/23/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| N-Nitrosodimethylamine | ND | 10 | 1.5 |
| Phenol | ND | 10 | 1.1 |
| bis(2-Chloroethyl)ether | ND | 10 | 0.65 |
| 2-Chlorophenol | ND | 10 | 0.44 |
| 1,3-Dichlorobenzene | ND | 10 | 0.33 |
| 1,4-Dichlorobenzene | ND | 10 | 0.49 |
| Benzyl alcohol | ND | 10 | 0.59 |
| 1,2-Dichlorobenzene | ND | 10 | 0.45 |
| 2-Methylphenol | ND | 10 | 1.1 |
| bis(2-Chloroisopropyl) ether | ND | 10 | 0.83 |
| 4-Methylphenol | ND | 10 | 0.43 |
| N-Nitroso-di-n-propylamine | ND | 10 | 1.4 |
| Hexachloroethane | ND | 10 | 0.42 |
| Nitrobenzene | ND | 10 | 0.59 |
| Isophorone | ND | 10 | 0.38 |
| 2-Nitrophenol | ND | 20 | 1.6 |
| 2,4-Dimethylphenol | ND | 10 | 1.2 |
| Benzoic acid | ND | 50 | 21 |
| bis(2-Chloroethoxy)methane | ND | 10 | 0.57 |
| 2,4-Dichlorophenol | ND | 10 | 0.72 |
| 1,2,4-Trichlorobenzene | ND | 10 | 0.32 |
| Naphthalene | ND | 10 | 0.27 |
| 4-Chloroaniline | ND | 10 | 0.99 |
| Hexachlorobutadiene | ND | 10 | 0.37 |
| 4-Chloro-3-methylphenol | ND | 10 | 0.75 |
| 2-Methylnaphthalene | ND | 10 | 0.29 |
| Hexachlorocyclopentadiene | ND | 20 | 0.79 |
| 2,4,6-Trichlorophenol | ND | 10 | 0.78 |
| 2,4,5-Trichlorophenol | ND | 10 | 0.97 |
| 2-Chloronaphthalene | ND | 10 | 0.38 |
| 2-Nitroaniline | ND | 20 | 0.88 |
| Dimethylphthalate | ND | 10 | 0.25 |
| Acenaphthylene | ND | 10 | 0.45 |
| 2,6-Dinitrotoluene | ND | 10 | 0.78 |
| 3-Nitroaniline | ND | 20 | 0.73 |
| Acenaphthene | ND | 10 | 0.33 |
| 2,4-Dinitrophenol | ND | 20 | 5.3 |
| 4-Nitrophenol | ND | 20 | 1.3 |
| Dibenzofuran | ND | 10 | 0.44 |
| 2,4-Dinitrotoluene | ND | 10 | 0.24 |
| Diethylphthalate | ND | 10 | 0.36 |
| Fluorene | ND | 10 | 0.18 |
| 4-Chlorophenyl-phenylether | ND | 10 | 0.30 |
| 4-Nitroaniline | ND | 20 | 0.66 |
| 4,6-Dinitro-2-methylphenol | ND | 20 | 0.71 |
| N-Nitrosodiphenylamine | ND | 10 | 0.38 |
| Azobenzene | ND | 10 | 0.79 |
| 4-Bromophenyl-phenylether | ND | 10 | 0.36 |
| Hexachlorobenzene | ND | 10 | 0.73 |
| Pentachlorophenol | ND | 20 | 0.75 |
| Phenanthrene | ND | 10 | 0.42 |
| Anthracene | ND | 10 | 0.30 |
| Di-n-butylphthalate | ND | 10 | 0.45 |
| Fluoranthene | ND | 10 | 0.24 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



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Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

## Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8270C |
| Type: | BLANK | Diln Fac: | 1.000 |
| Lab ID: | QC305819 | Batch#: | 105024 |
| Matrix: | Water | Prepared: | 08/20/05 |
| Units: | ug/L | Analyzed: | 08/23/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Pyrene | ND | 10 | 0.40 |
| Butylbenzylphthalate | ND | 10 | 0.38 |
| 3,3'-Dichlorobenzidine | ND | 20 | 0.44 |
| Benzo(a)anthracene | ND | 10 | 0.61 |
| Chrysene | ND | 10 | 0.28 |
| bis(2-Ethylhexyl)phthalate | ND | 10 | 0.54 |
| Di-n-octylphthalate | ND | 10 | 0.18 |
| Benzo(b)fluoranthene | ND | 10 | 0.16 |
| Benzo(k)fluoranthene | ND | 10 | 0.41 |
| Benzo(a)pyrene | ND | 10 | 0.15 |
| Indeno(1,2,3-cd)pyrene | ND | 10 | 0.42 |
| Dibenz(a,h)anthracene | ND | 10 | 0.25 |
| Benzo(g,h,i)perylene | ND | 10 | 0.56 |

| Surrogate | %REC | Limits |
|---|---|---|
| 2-Fluorophenol | 67 | 41-120 |
| Phenol-d5 | 69 | 41-120 |
| 2,4,6-Tribromophenol | 74 | 38-120 |
| Nitrobenzene-d5 | 83 | 47-120 |
| 2-Fluorobiphenyl | 86 | 44-120 |
| Terphenyl-d14 | 72 | 16-120 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



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Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

## Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8270C |
| Type: | LCS | Diln Fac: | 1.000 |
| Lab ID: | QC305820 | Batch#: | 105024 |
| Matrix: | Water | Prepared: | 08/20/05 |
| Units: | ug/L | Analyzed: | 08/23/05 |

| Analyte | Spiked | Result | %REC | Limits |
|---|---|---|---|---|
| Phenol | 100.0 | 69.65 | 70 | 43-120 |
| 2-Chlorophenol | 100.0 | 72.90 | 73 | 51-120 |
| 1,4-Dichlorobenzene | 50.00 | 25.40 | 51 | 36-120 |
| N-Nitroso-di-n-propylamine | 50.00 | 35.52 | 71 | 45-120 |
| 1,2,4-Trichlorobenzene | 50.00 | 33.29 | 67 | 38-120 |
| 4-Chloro-3-methylphenol | 100.0 | 76.34 | 76 | 48-120 |
| Acenaphthene | 50.00 | 37.79 | 76 | 43-120 |
| 4-Nitrophenol | 100.0 | 86.42 | 86 | 43-120 |
| 2,4-Dinitrotoluene | 50.00 | 37.83 | 76 | 46-120 |
| Pentachlorophenol | 100.0 | 88.73 | 89 | 35-120 |
| Pyrene | 50.00 | 36.25 | 72 | 38-120 |

| Surrogate | %REC | Limits |
|---|---|---|
| 2-Fluorophenol | 72 | 41-120 |
| Phenol-d5 | 72 | 41-120 |
| 2,4,6-Tribromophenol | 83 | 38-120 |
| Nitrobenzene-d5 | 80 | 47-120 |
| 2-Fluorobiphenyl | 82 | 44-120 |
| Terphenyl-d14 | 69 | 16-120 |

Curtis & Tompkins, Ltd.
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Batch QC Report

## Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8270C |
| Field ID: | MW5.2-081605 | Batch#: | 105024 |
| MSS Lab ID: | 181341-006 | Sampled: | 08/16/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Prepared: | 08/20/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/23/05 |

Type: MS Lab ID: QC305821

| Analyte | MSS Result | Spiked | Result | %REC | Limits |
|---|---|---|---|---|---|
| Phenol | <1.064 | 96.15 | 71.97 | 75 | 44-120 |
| 2-Chlorophenol | <0.4176 | 96.15 | 76.92 | 80 | 51-120 |
| 1,4-Dichlorobenzene | <0.4649 | 48.08 | 36.21 | 75 | 39-120 |
| N-Nitroso-di-n-propylamine | <1.361 | 48.08 | 37.58 | 78 | 44-120 |
| 1,2,4-Trichlorobenzene | <0.3059 | 48.08 | 39.75 | 83 | 41-120 |
| 4-Chloro-3-methylphenol | <0.7102 | 96.15 | 78.49 | 82 | 50-120 |
| Acenaphthene | <0.3153 | 48.08 | 38.12 | 79 | 47-120 |
| 4-Nitrophenol | <1.201 | 96.15 | 85.05 | 88 | 38-120 |
| 2,4-Dinitrotoluene | <0.2262 | 48.08 | 38.96 | 81 | 33-120 |
| Pentachlorophenol | <0.7160 | 96.15 | 91.67 | 95 | 25-148 |
| Pyrene | <0.3807 | 48.08 | 37.50 | 78 | 46-120 |

| Surrogate | %REC | Limits |
|---|---|---|
| 2-Fluorophenol | 81 | 41-120 |
| Phenol-d5 | 78 | 41-120 |
| 2,4,6-Tribromophenol | 90 | 38-120 |
| Nitrobenzene-d5 | 87 | 47-120 |
| 2-Fluorobiphenyl | 87 | 44-120 |
| Terphenyl-d14 | 78 | 16-120 |

Type: MSD Lab ID: QC305822

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|
| Phenol | 96.15 | 67.74 | 70 | 44-120 | 6 | 28 |
| 2-Chlorophenol | 96.15 | 71.95 | 75 | 51-120 | 7 | 24 |
| 1,4-Dichlorobenzene | 48.08 | 31.20 | 65 | 39-120 | 15 | 29 |
| N-Nitroso-di-n-propylamine | 48.08 | 34.91 | 73 | 44-120 | 7 | 25 |
| 1,2,4-Trichlorobenzene | 48.08 | 36.55 | 76 | 41-120 | 8 | 24 |
| 4-Chloro-3-methylphenol | 96.15 | 73.83 | 77 | 50-120 | 6 | 23 |
| Acenaphthene | 48.08 | 36.19 | 75 | 47-120 | 5 | 23 |
| 4-Nitrophenol | 96.15 | 86.11 | 90 | 38-120 | 1 | 27 |
| 2,4-Dinitrotoluene | 48.08 | 36.37 | 76 | 33-120 | 7 | 22 |
| Pentachlorophenol | 96.15 | 84.79 | 88 | 25-148 | 8 | 25 |
| Pyrene | 48.08 | 35.24 | 73 | 46-120 | 6 | 23 |

| Surrogate | %REC | Limits |
|---|---|---|
| 2-Fluorophenol | 73 | 41-120 |
| Phenol-d5 | 72 | 41-120 |
| 2,4,6-Tribromophenol | 84 | 38-120 |
| Nitrobenzene-d5 | 81 | 47-120 |
| 2-Fluorobiphenyl | 82 | 44-120 |
| Terphenyl-d14 | 72 | 16-120 |

RPD= Relative Percent Difference



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Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

## Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8270C |
| Type: | BLANK | Diln Fac: | 1.000 |
| Lab ID: | QC305949 | Batch#: | 105054 |
| Matrix: | Water | Prepared: | 08/22/05 |
| Units: | ug/L | Analyzed: | 08/23/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| N-Nitrosodimethylamine | ND | 10 | 0.96 |
| Phenol | ND | 10 | 0.42 |
| bis(2-Chloroethyl)ether | ND | 10 | 0.48 |
| 2-Chlorophenol | ND | 10 | 0.66 |
| 1,3-Dichlorobenzene | ND | 10 | 0.69 |
| 1,4-Dichlorobenzene | ND | 10 | 0.56 |
| Benzyl alcohol | ND | 10 | 0.54 |
| 1,2-Dichlorobenzene | ND | 10 | 0.37 |
| 2-Methylphenol | ND | 10 | 1.0 |
| bis(2-Chloroisopropyl) ether | ND | 10 | 0.54 |
| 4-Methylphenol | ND | 10 | 0.59 |
| N-Nitroso-di-n-propylamine | ND | 10 | 0.64 |
| Hexachloroethane | ND | 10 | 0.78 |
| Nitrobenzene | ND | 10 | 0.27 |
| Isophorone | ND | 10 | 0.49 |
| 2-Nitrophenol | ND | 20 | 0.91 |
| 2,4-Dimethylphenol | ND | 10 | 1.0 |
| Benzoic acid | ND | 50 | 0.13 |
| bis(2-Chloroethoxy)methane | ND | 10 | 0.53 |
| 2,4-Dichlorophenol | ND | 10 | 0.42 |
| 1,2,4-Trichlorobenzene | ND | 10 | 0.60 |
| Naphthalene | ND | 10 | 0.31 |
| 4-Chloroaniline | ND | 10 | 2.3 |
| Hexachlorobutadiene | ND | 10 | 0.77 |
| 4-Chloro-3-methylphenol | ND | 10 | 0.61 |
| 2-Methylnaphthalene | ND | 10 | 0.67 |
| Hexachlorocyclopentadiene | ND | 20 | 0.32 |
| 2,4,6-Trichlorophenol | ND | 10 | 1.1 |
| 2,4,5-Trichlorophenol | ND | 10 | 1.1 |
| 2-Chloronaphthalene | ND | 10 | 0.38 |
| 2-Nitroaniline | ND | 20 | 0.78 |
| Dimethylphthalate | ND | 10 | 0.42 |
| Acenaphthylene | ND | 10 | 0.35 |
| 2,6-Dinitrotoluene | ND | 10 | 0.45 |
| 3-Nitroaniline | ND | 20 | 0.40 |
| Acenaphthene | ND | 10 | 0.34 |
| 2,4-Dinitrophenol | ND | 20 | 0.44 |
| 4-Nitrophenol | ND | 20 | 1.8 |
| Dibenzofuran | ND | 10 | 1.2 |
| 2,4-Dinitrotoluene | ND | 10 | 0.31 |
| Diethylphthalate | ND | 10 | 0.33 |
| Fluorene | ND | 10 | 0.96 |
| 4-Chlorophenyl-phenylether | ND | 10 | 0.79 |
| 4-Nitroaniline | ND | 20 | 1.0 |
| 4,6-Dinitro-2-methylphenol | ND | 20 | 1.1 |
| N-Nitrosodiphenylamine | ND | 10 | 0.30 |
| Azobenzene | ND | 10 | 0.60 |
| 4-Bromophenyl-phenylether | ND | 10 | 0.49 |
| Hexachlorobenzene | ND | 10 | 0.57 |
| Pentachlorophenol | ND | 20 | 0.46 |
| Phenanthrene | ND | 10 | 0.58 |
| Anthracene | ND | 10 | 0.27 |
| Di-n-butylphthalate | ND | 10 | 0.38 |
| Fluoranthene | ND | 10 | 0.47 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



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Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

## Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8270C |
| Type: | BLANK | Diln Fac: | 1.000 |
| Lab ID: | QC305949 | Batch#: | 105054 |
| Matrix: | Water | Prepared: | 08/22/05 |
| Units: | ug/L | Analyzed: | 08/23/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Pyrene | ND | 10 | 0.55 |
| Butylbenzylphthalate | ND | 10 | 0.51 |
| 3,3'-Dichlorobenzidine | ND | 20 | 0.45 |
| Benzo(a)anthracene | ND | 10 | 0.63 |
| Chrysene | ND | 10 | 0.69 |
| bis(2-Ethylhexyl)phthalate | ND | 10 | 1.2 |
| Di-n-octylphthalate | ND | 10 | 0.14 |
| Benzo(b)fluoranthene | ND | 10 | 0.45 |
| Benzo(k)fluoranthene | ND | 10 | 0.52 |
| Benzo(a)pyrene | ND | 10 | 0.52 |
| Indeno(1,2,3-cd)pyrene | ND | 10 | 0.32 |
| Dibenz(a,h)anthracene | ND | 10 | 0.29 |
| Benzo(g,h,i)perylene | ND | 10 | 0.28 |

| Surrogate | %REC | Limits |
|---|---|---|
| 2-Fluorophenol | 78 | 41-120 |
| Phenol-d5 | 69 | 41-120 |
| 2,4,6-Tribromophenol | 65 | 38-120 |
| Nitrobenzene-d5 | 81 | 47-120 |
| 2-Fluorobiphenyl | 75 | 44-120 |
| Terphenyl-d14 | 67 | 16-120 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



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Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

## Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8270C |
| Matrix: | Water | Batch#: | 105054 |
| Units: | ug/L | Prepared: | 08/22/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/24/05 |

Type: BS Lab ID: QC305950

| Analyte | Spiked | Result | %REC | Limits |
|---|---|---|---|---|
| Phenol | 100.0 | 76.86 | 77 | 43-120 |
| 2-Chlorophenol | 100.0 | 81.97 | 82 | 51-120 |
| 1,4-Dichlorobenzene | 50.00 | 24.45 | 49 | 36-120 |
| N-Nitroso-di-n-propylamine | 50.00 | 40.91 | 82 | 45-120 |
| 1,2,4-Trichlorobenzene | 50.00 | 32.85 | 66 | 38-120 |
| 4-Chloro-3-methylphenol | 100.0 | 84.65 | 85 | 48-120 |
| Acenaphthene | 50.00 | 41.79 | 84 | 43-120 |
| 4-Nitrophenol | 100.0 | 105.2 | 105 | 43-120 |
| 2,4-Dinitrotoluene | 50.00 | 43.44 | 87 | 46-120 |
| Pentachlorophenol | 100.0 | 101.5 | 101 | 35-120 |
| Pyrene | 50.00 | 39.53 | 79 | 38-120 |

| Surrogate | %REC | Limits |
|---|---|---|
| 2-Fluorophenol | 80 | 41-120 |
| Phenol-d5 | 78 | 41-120 |
| 2,4,6-Tribromophenol | 94 | 38-120 |
| Nitrobenzene-d5 | 87 | 47-120 |
| 2-Fluorobiphenyl | 92 | 44-120 |
| Terphenyl-d14 | 77 | 16-120 |

Type: BSD Lab ID: QC305951

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|
| Phenol | 100.0 | 76.78 | 77 | 43-120 | 0 | 25 |
| 2-Chlorophenol | 100.0 | 82.24 | 82 | 51-120 | 0 | 24 |
| 1,4-Dichlorobenzene | 50.00 | 24.12 | 48 | 36-120 | 1 | 35 |
| N-Nitroso-di-n-propylamine | 50.00 | 39.92 | 80 | 45-120 | 2 | 27 |
| 1,2,4-Trichlorobenzene | 50.00 | 32.16 | 64 | 38-120 | 2 | 30 |
| 4-Chloro-3-methylphenol | 100.0 | 83.09 | 83 | 48-120 | 2 | 25 |
| Acenaphthene | 50.00 | 40.86 | 82 | 43-120 | 2 | 24 |
| 4-Nitrophenol | 100.0 | 102.1 | 102 | 43-120 | 3 | 23 |
| 2,4-Dinitrotoluene | 50.00 | 42.73 | 85 | 46-120 | 2 | 24 |
| Pentachlorophenol | 100.0 | 99.86 | 100 | 35-120 | 2 | 28 |
| Pyrene | 50.00 | 39.06 | 78 | 38-120 | 1 | 24 |

| Surrogate | %REC | Limits |
|---|---|---|
| 2-Fluorophenol | 81 | 41-120 |
| Phenol-d5 | 79 | 41-120 |
| 2,4,6-Tribromophenol | 95 | 38-120 |
| Nitrobenzene-d5 | 87 | 47-120 |
| 2-Fluorobiphenyl | 90 | 44-120 |
| Terphenyl-d14 | 77 | 16-120 |

RPD= Relative Percent Difference



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Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Polychlorinated Biphenyl Congeners

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8082 |
| Field ID: | MW3.6-081605 | Batch#: | 105053 |
| Lab ID: | 181341-005 | Sampled: | 08/16/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Prepared: | 08/22/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/23/05 |

Cleanup Method: EPA 3665A

| Analyte | Result | RL | MDL |
|---|---|---|---|
| BZ# 8 | ND | 0.049 | 0.012 |
| BZ# 18 | ND | 0.049 | 0.025 |
| BZ# 28 | ND | 0.049 | 0.020 |
| BZ# 52 | ND | 0.049 | 0.019 |
| BZ# 44 | ND | 0.049 | 0.0097 |
| BZ# 66 | ND | 0.049 | 0.0099 |
| BZ# 101 | ND | 0.049 | 0.013 |
| BZ# 81 | ND | 0.049 | 0.019 |
| BZ# 77 | ND | 0.049 | 0.010 |
| BZ# 123 | ND | 0.049 | 0.011 |
| BZ# 118 | ND | 0.049 | 0.010 |
| BZ# 114 | ND | 0.049 | 0.010 |
| BZ# 153 | ND | 0.049 | 0.015 |
| BZ# 105 | ND | 0.049 | 0.012 |
| BZ# 138 | ND | 0.049 | 0.011 |
| BZ# 187 | ND | 0.049 | 0.010 |
| BZ# 126 | ND | 0.049 | 0.012 |
| BZ# 128 | ND | 0.049 | 0.011 |
| BZ# 167 | ND | 0.049 | 0.010 |
| BZ# 156 | ND | 0.049 | 0.012 |
| BZ# 157 | ND | 0.049 | 0.011 |
| BZ# 180 | ND | 0.049 | 0.011 |
| BZ# 170 | ND | 0.049 | 0.015 |
| BZ# 169 | ND | 0.049 | 0.013 |
| BZ# 189 | ND | 0.049 | 0.014 |
| BZ# 195 | ND | 0.049 | 0.013 |
| BZ# 206 | ND | 0.049 | 0.012 |
| BZ# 209 | ND | 0.049 | 0.015 |

| Surrogate | %REC | Limits |
|---|---|---|
| TCMX | 40 | 37-140 |
| BZ# 205 | 92 | 37-140 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



25.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Polychlorinated Biphenyl Congeners

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8082 |
| Field ID: | MW5.2-081605 | Batch#: | 105053 |
| Lab ID: | 181341-006 | Sampled: | 08/16/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Prepared: | 08/22/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/24/05 |

Cleanup Method: EPA 3665A

| Analyte | Result | RL | MDL |
|---|---|---|---|
| BZ# 8 | ND | 0.048 | 0.012 |
| BZ# 18 | ND | 0.048 | 0.024 |
| BZ# 28 | ND | 0.048 | 0.020 |
| BZ# 52 | ND | 0.048 | 0.019 |
| BZ# 44 | ND | 0.048 | 0.0097 |
| BZ# 66 | ND | 0.048 | 0.0098 |
| BZ# 101 | ND | 0.048 | 0.013 |
| BZ# 81 | ND | 0.048 | 0.019 |
| BZ# 77 | ND | 0.048 | 0.010 |
| BZ# 123 | ND | 0.048 | 0.011 |
| BZ# 118 | ND | 0.048 | 0.010 |
| BZ# 114 | ND | 0.048 | 0.010 |
| BZ# 153 | ND | 0.048 | 0.014 |
| BZ# 105 | ND | 0.048 | 0.012 |
| BZ# 138 | ND | 0.048 | 0.011 |
| BZ# 187 | ND | 0.048 | 0.0099 |
| BZ# 126 | ND | 0.048 | 0.012 |
| BZ# 128 | ND | 0.048 | 0.011 |
| BZ# 167 | ND | 0.048 | 0.010 |
| BZ# 156 | ND | 0.048 | 0.012 |
| BZ# 157 | ND | 0.048 | 0.011 |
| BZ# 180 | ND | 0.048 | 0.011 |
| BZ# 170 | ND | 0.048 | 0.014 |
| BZ# 169 | ND | 0.048 | 0.013 |
| BZ# 189 | ND | 0.048 | 0.014 |
| BZ# 195 | ND | 0.048 | 0.013 |
| BZ# 206 | ND | 0.048 | 0.012 |
| BZ# 209 | ND | 0.048 | 0.015 |

| Surrogate | %REC | Limits |
|---|---|---|
| TCMX | 47 | 37-140 |
| BZ# 205 | 85 | 37-140 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



26.0

Curtis & Tompkins, Ltd.
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# Polychlorinated Biphenyl Congeners

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8082 |
| Field ID: | MWDUP2-081605 | Batch#: | 105053 |
| Lab ID: | 181341-007 | Sampled: | 08/16/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Prepared: | 08/22/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/23/05 |

Cleanup Method: EPA 3665A

| Analyte | Result | RL | MDL |
|---|---|---|---|
| BZ# 8 | ND | 0.049 | 0.012 |
| BZ# 18 | ND | 0.049 | 0.025 |
| BZ# 28 | ND | 0.049 | 0.020 |
| BZ# 52 | ND | 0.049 | 0.019 |
| BZ# 44 | ND | 0.049 | 0.0097 |
| BZ# 66 | ND | 0.049 | 0.0099 |
| BZ# 101 | ND | 0.049 | 0.013 |
| BZ# 81 | ND | 0.049 | 0.019 |
| BZ# 77 | ND | 0.049 | 0.010 |
| BZ# 123 | ND | 0.049 | 0.011 |
| BZ# 118 | ND | 0.049 | 0.010 |
| BZ# 114 | ND | 0.049 | 0.010 |
| BZ# 153 | ND | 0.049 | 0.015 |
| BZ# 105 | ND | 0.049 | 0.012 |
| BZ# 138 | ND | 0.049 | 0.011 |
| BZ# 187 | ND | 0.049 | 0.010 |
| BZ# 126 | ND | 0.049 | 0.012 |
| BZ# 128 | ND | 0.049 | 0.011 |
| BZ# 167 | ND | 0.049 | 0.010 |
| BZ# 156 | ND | 0.049 | 0.012 |
| BZ# 157 | ND | 0.049 | 0.011 |
| BZ# 180 | ND | 0.049 | 0.011 |
| BZ# 170 | ND | 0.049 | 0.015 |
| BZ# 169 | ND | 0.049 | 0.013 |
| BZ# 189 | ND | 0.049 | 0.014 |
| BZ# 195 | ND | 0.049 | 0.013 |
| BZ# 206 | ND | 0.049 | 0.012 |
| BZ# 209 | ND | 0.049 | 0.015 |

| Surrogate | %REC | Limits |
|---|---|---|
| TCMX | 36 * | 37-140 |
| BZ# 205 | 73 | 37-140 |

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



27.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Polychlorinated Biphenyl Congeners

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8082 |
| Field ID: | MW5.3-081605 | Batch#: | 105053 |
| Lab ID: | 181341-008 | Sampled: | 08/16/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Prepared: | 08/22/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/23/05 |

Cleanup Method: EPA 3665A

| Analyte | Result | RL | MDL |
|---|---|---|---|
| BZ# 8 | ND | 0.048 | 0.012 |
| BZ# 18 | ND | 0.048 | 0.024 |
| BZ# 28 | ND | 0.048 | 0.019 |
| BZ# 52 | ND | 0.048 | 0.018 |
| BZ# 44 | ND | 0.048 | 0.0096 |
| BZ# 66 | ND | 0.048 | 0.0097 |
| BZ# 101 | ND | 0.048 | 0.013 |
| BZ# 81 | ND | 0.048 | 0.019 |
| BZ# 77 | ND | 0.048 | 0.010 |
| BZ# 123 | ND | 0.048 | 0.011 |
| BZ# 118 | ND | 0.048 | 0.010 |
| BZ# 114 | ND | 0.048 | 0.010 |
| BZ# 153 | ND | 0.048 | 0.014 |
| BZ# 105 | ND | 0.048 | 0.011 |
| BZ# 138 | ND | 0.048 | 0.011 |
| BZ# 187 | ND | 0.048 | 0.0098 |
| BZ# 126 | ND | 0.048 | 0.012 |
| BZ# 128 | ND | 0.048 | 0.010 |
| BZ# 167 | ND | 0.048 | 0.010 |
| BZ# 156 | ND | 0.048 | 0.012 |
| BZ# 157 | ND | 0.048 | 0.011 |
| BZ# 180 | ND | 0.048 | 0.011 |
| BZ# 170 | ND | 0.048 | 0.014 |
| BZ# 169 | ND | 0.048 | 0.013 |
| BZ# 189 | ND | 0.048 | 0.014 |
| BZ# 195 | ND | 0.048 | 0.012 |
| BZ# 206 | ND | 0.048 | 0.012 |
| BZ# 209 | ND | 0.048 | 0.015 |

| Surrogate | %REC | Limits |
|---|---|---|
| TCMX | 42 | 37-140 |
| BZ# 205 | 85 | 37-140 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



28.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Polychlorinated Biphenyl Congeners

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8082 |
| Field ID: | MW5.4-081605 | Batch#: | 105053 |
| Lab ID: | 181341-009 | Sampled: | 08/16/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Prepared: | 08/22/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/23/05 |

Cleanup Method: EPA 3665A

| Analyte | Result | RL | MDL |
|---|---|---|---|
| BZ# 8 | ND | 0.048 | 0.012 |
| BZ# 18 | ND | 0.048 | 0.024 |
| BZ# 28 | ND | 0.048 | 0.020 |
| BZ# 52 | ND | 0.048 | 0.019 |
| BZ# 44 | ND | 0.048 | 0.0097 |
| BZ# 66 | ND | 0.048 | 0.0098 |
| BZ# 101 | ND | 0.048 | 0.013 |
| BZ# 81 | ND | 0.048 | 0.019 |
| BZ# 77 | ND | 0.048 | 0.010 |
| BZ# 123 | ND | 0.048 | 0.011 |
| BZ# 118 | ND | 0.048 | 0.010 |
| BZ# 114 | ND | 0.048 | 0.010 |
| BZ# 153 | ND | 0.048 | 0.014 |
| BZ# 105 | ND | 0.048 | 0.012 |
| BZ# 138 | ND | 0.048 | 0.011 |
| BZ# 187 | ND | 0.048 | 0.0099 |
| BZ# 126 | ND | 0.048 | 0.012 |
| BZ# 128 | ND | 0.048 | 0.011 |
| BZ# 167 | ND | 0.048 | 0.010 |
| BZ# 156 | ND | 0.048 | 0.012 |
| BZ# 157 | ND | 0.048 | 0.011 |
| BZ# 180 | ND | 0.048 | 0.011 |
| BZ# 170 | ND | 0.048 | 0.014 |
| BZ# 169 | ND | 0.048 | 0.013 |
| BZ# 189 | ND | 0.048 | 0.014 |
| BZ# 195 | ND | 0.048 | 0.013 |
| BZ# 206 | ND | 0.048 | 0.012 |
| BZ# 209 | ND | 0.048 | 0.015 |

| Surrogate | %REC | Limits |
|---|---|---|
| TCMX | 37 | 37-140 |
| BZ# 205 | 78 | 37-140 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



29.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Polychlorinated Biphenyl Congeners

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8082 |
| Field ID: | MW3.7-081705 | Batch#: | 105053 |
| Lab ID: | 181341-010 | Sampled: | 08/17/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Prepared: | 08/22/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/24/05 |

Cleanup Method: EPA 3665A

| Analyte | Result | RL | MDL |
|---|---|---|---|
| BZ# 8 | ND | 0.048 | 0.012 |
| BZ# 18 | ND | 0.048 | 0.024 |
| BZ# 28 | ND | 0.048 | 0.020 |
| BZ# 52 | ND | 0.048 | 0.019 |
| BZ# 44 | ND | 0.048 | 0.0097 |
| BZ# 66 | ND | 0.048 | 0.0098 |
| BZ# 101 | ND | 0.048 | 0.013 |
| BZ# 81 | ND | 0.048 | 0.019 |
| BZ# 77 | ND | 0.048 | 0.010 |
| BZ# 123 | ND | 0.048 | 0.011 |
| BZ# 118 | ND | 0.048 | 0.010 |
| BZ# 114 | ND | 0.048 | 0.010 |
| BZ# 153 | ND | 0.048 | 0.014 |
| BZ# 105 | ND | 0.048 | 0.012 |
| BZ# 138 | ND | 0.048 | 0.011 |
| BZ# 187 | ND | 0.048 | 0.0099 |
| BZ# 126 | ND | 0.048 | 0.012 |
| BZ# 128 | ND | 0.048 | 0.011 |
| BZ# 167 | ND | 0.048 | 0.010 |
| BZ# 156 | ND | 0.048 | 0.012 |
| BZ# 157 | ND | 0.048 | 0.011 |
| BZ# 180 | ND | 0.048 | 0.011 |
| BZ# 170 | ND | 0.048 | 0.014 |
| BZ# 169 | ND | 0.048 | 0.013 |
| BZ# 189 | ND | 0.048 | 0.014 |
| BZ# 195 | ND | 0.048 | 0.013 |
| BZ# 206 | ND | 0.048 | 0.012 |
| BZ# 209 | ND | 0.048 | 0.015 |

| Surrogate | %REC | Limits |
|---|---|---|
| TCMX | 38 | 37-140 |
| BZ# 205 | 79 | 37-140 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



30.0

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Analytical Laboratories, Since 1878

# Polychlorinated Biphenyl Congeners

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8082 |
| Field ID: | MW3.8-081705 | Batch#: | 105053 |
| Lab ID: | 181341-011 | Sampled: | 08/17/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Prepared: | 08/22/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/24/05 |

Cleanup Method: EPA 3665A

| Analyte | Result | RL | MDL |
|---|---|---|---|
| BZ# 8 | ND | 0.048 | 0.012 |
| BZ# 18 | ND | 0.048 | 0.024 |
| BZ# 28 | ND | 0.048 | 0.020 |
| BZ# 52 | ND | 0.048 | 0.019 |
| BZ# 44 | ND | 0.048 | 0.0097 |
| BZ# 66 | ND | 0.048 | 0.0098 |
| BZ# 101 | ND | 0.048 | 0.013 |
| BZ# 81 | ND | 0.048 | 0.019 |
| BZ# 77 | ND | 0.048 | 0.010 |
| BZ# 123 | ND | 0.048 | 0.011 |
| BZ# 118 | ND | 0.048 | 0.010 |
| BZ# 114 | ND | 0.048 | 0.010 |
| BZ# 153 | ND | 0.048 | 0.014 |
| BZ# 105 | ND | 0.048 | 0.012 |
| BZ# 138 | ND | 0.048 | 0.011 |
| BZ# 187 | ND | 0.048 | 0.0099 |
| BZ# 126 | ND | 0.048 | 0.012 |
| BZ# 128 | ND | 0.048 | 0.011 |
| BZ# 167 | ND | 0.048 | 0.010 |
| BZ# 156 | ND | 0.048 | 0.012 |
| BZ# 157 | ND | 0.048 | 0.011 |
| BZ# 180 | ND | 0.048 | 0.011 |
| BZ# 170 | ND | 0.048 | 0.014 |
| BZ# 169 | ND | 0.048 | 0.013 |
| BZ# 189 | ND | 0.048 | 0.014 |
| BZ# 195 | ND | 0.048 | 0.013 |
| BZ# 206 | ND | 0.048 | 0.012 |
| BZ# 209 | ND | 0.048 | 0.015 |

| Surrogate | %REC | Limits |
|---|---|---|
| TCMX | 37 | 37-140 |
| BZ# 205 | 82 | 37-140 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



31.0

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Analytical Laboratories, Since 1878

# Polychlorinated Biphenyl Congeners

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8082 |
| Field ID: | MW3.9-081705 | Batch#: | 105053 |
| Lab ID: | 181341-012 | Sampled: | 08/17/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Prepared: | 08/22/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/24/05 |

Cleanup Method: EPA 3665A

| Analyte | Result | RL | MDL |
|---|---|---|---|
| BZ# 8 | ND | 0.048 | 0.012 |
| BZ# 18 | ND | 0.048 | 0.024 |
| BZ# 28 | ND | 0.048 | 0.019 |
| BZ# 52 | ND | 0.048 | 0.018 |
| BZ# 44 | ND | 0.048 | 0.0096 |
| BZ# 66 | ND | 0.048 | 0.0097 |
| BZ# 101 | ND | 0.048 | 0.013 |
| BZ# 81 | ND | 0.048 | 0.019 |
| BZ# 77 | ND | 0.048 | 0.010 |
| BZ# 123 | ND | 0.048 | 0.011 |
| BZ# 118 | ND | 0.048 | 0.010 |
| BZ# 114 | ND | 0.048 | 0.010 |
| BZ# 153 | 0.034 J | 0.048 | 0.014 |
| BZ# 105 | ND | 0.048 | 0.011 |
| BZ# 138 | 0.021 J | 0.048 | 0.011 |
| BZ# 187 | 0.024 J | 0.048 | 0.0098 |
| BZ# 126 | ND | 0.048 | 0.012 |
| BZ# 128 | ND | 0.048 | 0.010 |
| BZ# 167 | ND | 0.048 | 0.010 |
| BZ# 156 | ND | 0.048 | 0.012 |
| BZ# 157 | ND | 0.048 | 0.011 |
| BZ# 180 | 0.033 J | 0.048 | 0.011 |
| BZ# 170 | ND | 0.048 | 0.014 |
| BZ# 169 | ND | 0.048 | 0.013 |
| BZ# 189 | ND | 0.048 | 0.014 |
| BZ# 195 | ND | 0.048 | 0.012 |
| BZ# 206 | ND | 0.048 | 0.012 |
| BZ# 209 | ND | 0.048 | 0.015 |

| Surrogate | %REC | Limits |
|---|---|---|
| TCMX | 35 * | 37-140 |
| BZ# 205 | 70 | 37-140 |

*= Value outside of QC limits; see narrative
J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



32.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Polychlorinated Biphenyl Congeners

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8082 |
| Field ID: | MW5.5-081705 | Batch#: | 105053 |
| Lab ID: | 181341-013 | Sampled: | 08/17/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Prepared: | 08/22/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/24/05 |

Cleanup Method: EPA 3665A

| Analyte | Result | RL | MDL |
|---|---|---|---|
| BZ# 8 | ND | 0.048 | 0.012 |
| BZ# 18 | ND | 0.048 | 0.024 |
| BZ# 28 | ND | 0.048 | 0.020 |
| BZ# 52 | ND | 0.048 | 0.019 |
| BZ# 44 | ND | 0.048 | 0.0097 |
| BZ# 66 | ND | 0.048 | 0.0098 |
| BZ# 101 | ND | 0.048 | 0.013 |
| BZ# 81 | ND | 0.048 | 0.019 |
| BZ# 77 | ND | 0.048 | 0.010 |
| BZ# 123 | ND | 0.048 | 0.011 |
| BZ# 118 | ND | 0.048 | 0.010 |
| BZ# 114 | ND | 0.048 | 0.010 |
| BZ# 153 | ND | 0.048 | 0.014 |
| BZ# 105 | ND | 0.048 | 0.012 |
| BZ# 138 | ND | 0.048 | 0.011 |
| BZ# 187 | ND | 0.048 | 0.0099 |
| BZ# 126 | ND | 0.048 | 0.012 |
| BZ# 128 | ND | 0.048 | 0.011 |
| BZ# 167 | ND | 0.048 | 0.010 |
| BZ# 156 | ND | 0.048 | 0.012 |
| BZ# 157 | ND | 0.048 | 0.011 |
| BZ# 180 | ND | 0.048 | 0.011 |
| BZ# 170 | ND | 0.048 | 0.014 |
| BZ# 169 | ND | 0.048 | 0.013 |
| BZ# 189 | ND | 0.048 | 0.014 |
| BZ# 195 | ND | 0.048 | 0.013 |
| BZ# 206 | ND | 0.048 | 0.012 |
| BZ# 209 | ND | 0.048 | 0.015 |

| Surrogate | %REC | Limits |
|---|---|---|
| TCMX | 34 * | 37-140 |
| BZ# 205 | 67 | 37-140 |

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



33.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Polychlorinated Biphenyl Congeners

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8082 |
| Field ID: | MW5.6-081705 | Batch#: | 105053 |
| Lab ID: | 181341-014 | Sampled: | 08/17/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Prepared: | 08/22/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/24/05 |

Cleanup Method: EPA 3665A

| Analyte | Result | RL | MDL |
|---|---|---|---|
| BZ# 8 | ND | 0.048 | 0.012 |
| BZ# 18 | ND | 0.048 | 0.024 |
| BZ# 28 | ND | 0.048 | 0.020 |
| BZ# 52 | ND | 0.048 | 0.019 |
| BZ# 44 | ND | 0.048 | 0.0097 |
| BZ# 66 | ND | 0.048 | 0.0098 |
| BZ# 101 | ND | 0.048 | 0.013 |
| BZ# 81 | ND | 0.048 | 0.019 |
| BZ# 77 | ND | 0.048 | 0.010 |
| BZ# 123 | ND | 0.048 | 0.011 |
| BZ# 118 | ND | 0.048 | 0.010 |
| BZ# 114 | ND | 0.048 | 0.010 |
| BZ# 153 | ND | 0.048 | 0.014 |
| BZ# 105 | ND | 0.048 | 0.012 |
| BZ# 138 | ND | 0.048 | 0.011 |
| BZ# 187 | ND | 0.048 | 0.0099 |
| BZ# 126 | ND | 0.048 | 0.012 |
| BZ# 128 | ND | 0.048 | 0.011 |
| BZ# 167 | ND | 0.048 | 0.010 |
| BZ# 156 | ND | 0.048 | 0.012 |
| BZ# 157 | ND | 0.048 | 0.011 |
| BZ# 180 | ND | 0.048 | 0.011 |
| BZ# 170 | ND | 0.048 | 0.014 |
| BZ# 169 | ND | 0.048 | 0.013 |
| BZ# 189 | ND | 0.048 | 0.014 |
| BZ# 195 | ND | 0.048 | 0.013 |
| BZ# 206 | ND | 0.048 | 0.012 |
| BZ# 209 | ND | 0.048 | 0.015 |

| Surrogate | %REC | Limits |
|---|---|---|
| TCMX | 36 * | 37-140 |
| BZ# 205 | 77 | 37-140 |

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



34.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Polychlorinated Biphenyl Congeners

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8082 |
| Field ID: | MW5.7-081705 | Batch#: | 105053 |
| Lab ID: | 181341-015 | Sampled: | 08/17/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Prepared: | 08/22/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/24/05 |

Cleanup Method: EPA 3665A

| Analyte | Result | RL | MDL |
|---|---|---|---|
| BZ# 8 | ND | 0.049 | 0.012 |
| BZ# 18 | ND | 0.049 | 0.025 |
| BZ# 28 | ND | 0.049 | 0.020 |
| BZ# 52 | ND | 0.049 | 0.019 |
| BZ# 44 | ND | 0.049 | 0.0097 |
| BZ# 66 | ND | 0.049 | 0.0099 |
| BZ# 101 | ND | 0.049 | 0.013 |
| BZ# 81 | ND | 0.049 | 0.019 |
| BZ# 77 | ND | 0.049 | 0.010 |
| BZ# 123 | ND | 0.049 | 0.011 |
| BZ# 118 | ND | 0.049 | 0.010 |
| BZ# 114 | ND | 0.049 | 0.010 |
| BZ# 153 | ND | 0.049 | 0.015 |
| BZ# 105 | ND | 0.049 | 0.012 |
| BZ# 138 | ND | 0.049 | 0.011 |
| BZ# 187 | ND | 0.049 | 0.010 |
| BZ# 126 | ND | 0.049 | 0.012 |
| BZ# 128 | ND | 0.049 | 0.011 |
| BZ# 167 | ND | 0.049 | 0.010 |
| BZ# 156 | ND | 0.049 | 0.012 |
| BZ# 157 | ND | 0.049 | 0.011 |
| BZ# 180 | ND | 0.049 | 0.011 |
| BZ# 170 | ND | 0.049 | 0.015 |
| BZ# 169 | ND | 0.049 | 0.013 |
| BZ# 189 | ND | 0.049 | 0.014 |
| BZ# 195 | ND | 0.049 | 0.013 |
| BZ# 206 | ND | 0.049 | 0.012 |
| BZ# 209 | ND | 0.049 | 0.015 |

| Surrogate | %REC | Limits |
|---|---|---|
| TCMX | 34 * | 37-140 |
| BZ# 205 | 82 | 37-140 |

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



35.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

## Polychlorinated Biphenyl Congeners

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8082 |
| Type: | BLANK | Diln Fac: | 1.000 |
| Lab ID: | QC305945 | Batch#: | 105053 |
| Matrix: | Water | Prepared: | 08/22/05 |
| Units: | ug/L | Analyzed: | 08/23/05 |

Cleanup Method: EPA 3665A

| Analyte | Result | RL | MDL |
|---|---|---|---|
| BZ# 8 | ND | 0.050 | 0.012 |
| BZ# 18 | ND | 0.050 | 0.025 |
| BZ# 28 | ND | 0.050 | 0.020 |
| BZ# 52 | ND | 0.050 | 0.019 |
| BZ# 44 | ND | 0.050 | 0.010 |
| BZ# 66 | ND | 0.050 | 0.010 |
| BZ# 101 | ND | 0.050 | 0.013 |
| BZ# 81 | ND | 0.050 | 0.020 |
| BZ# 77 | ND | 0.050 | 0.011 |
| BZ# 123 | ND | 0.050 | 0.012 |
| BZ# 118 | ND | 0.050 | 0.011 |
| BZ# 114 | ND | 0.050 | 0.011 |
| BZ# 153 | ND | 0.050 | 0.015 |
| BZ# 105 | ND | 0.050 | 0.012 |
| BZ# 138 | ND | 0.050 | 0.011 |
| BZ# 187 | ND | 0.050 | 0.010 |
| BZ# 126 | ND | 0.050 | 0.013 |
| BZ# 128 | ND | 0.050 | 0.011 |
| BZ# 167 | ND | 0.050 | 0.010 |
| BZ# 156 | ND | 0.050 | 0.013 |
| BZ# 157 | ND | 0.050 | 0.011 |
| BZ# 180 | ND | 0.050 | 0.011 |
| BZ# 170 | ND | 0.050 | 0.015 |
| BZ# 169 | ND | 0.050 | 0.014 |
| BZ# 189 | ND | 0.050 | 0.015 |
| BZ# 195 | ND | 0.050 | 0.013 |
| BZ# 206 | ND | 0.050 | 0.012 |
| BZ# 209 | ND | 0.050 | 0.016 |

| Surrogate | %REC | Limits |
|---|---|---|
| TCMX | 32 * | 37-140 |
| BZ# 205 | 87 | 37-140 |

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



36.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

## Polychlorinated Biphenyl Congeners

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8082 |
| Type: | LCS | Diln Fac: | 1.000 |
| Lab ID: | QC305946 | Batch#: | 105053 |
| Matrix: | Water | Prepared: | 08/22/05 |
| Units: | ug/L | Analyzed: | 08/23/05 |

Cleanup Method: EPA 3665A

| Analyte | Spiked | Result | %REC | Limits |
|---|---|---|---|---|
| BZ# 8 | 1.000 | 0.8793 | 88 | 50-150 |
| BZ# 18 | 1.000 | 0.8890 | 89 | 50-150 |
| BZ# 28 | 1.000 | 0.9558 | 96 | 50-150 |
| BZ# 52 | 1.000 | 0.8296 | 83 | 50-150 |
| BZ# 44 | 1.000 | 0.8619 | 86 | 50-150 |
| BZ# 66 | 1.000 | 0.9642 | 96 | 50-150 |
| BZ# 101 | 1.000 | 0.8963 | 90 | 50-150 |
| BZ# 81 | 1.000 | 1.028 | 103 | 50-150 |
| BZ# 77 | 1.000 | 1.168 # | 117 | 50-150 |
| BZ# 123 | 1.000 | 0.9354 | 94 | 50-150 |
| BZ# 118 | 1.000 | 0.9356 | 94 | 50-150 |
| BZ# 114 | 1.000 | 0.9539 | 95 | 50-150 |
| BZ# 153 | 1.000 | 0.8690 | 87 | 50-150 |
| BZ# 105 | 1.000 | 1.007 | 101 | 50-150 |
| BZ# 138 | 1.000 | 0.9177 | 92 | 50-150 |
| BZ# 187 | 1.000 | 0.8388 | 84 | 50-150 |
| BZ# 126 | 1.000 | 1.026 | 103 | 50-150 |
| BZ# 128 | 1.000 | 0.9257 | 93 | 50-150 |
| BZ# 167 | 1.000 | 0.9339 | 93 | 50-150 |
| BZ# 156 | 1.000 | 0.9371 | 94 | 50-150 |
| BZ# 157 | 1.000 | 0.9543 | 95 | 50-150 |
| BZ# 180 | 1.000 | 0.8479 | 85 | 50-150 |
| BZ# 170 | 1.000 | 0.8957 | 90 | 50-150 |
| BZ# 169 | 1.000 | 1.070 | 107 | 50-150 |
| BZ# 189 | 1.000 | 0.9934 | 99 | 50-150 |
| BZ# 195 | 1.000 | 0.8776 | 88 | 50-150 |
| BZ# 206 | 1.000 | 0.8241 | 82 | 50-150 |
| BZ# 209 | 1.000 | 0.8469 | 85 | 50-150 |

| Surrogate | %REC | Limits |
|---|---|---|
| TCMX | 41 | 37-140 |
| BZ# 205 | 92 | 37-140 |

#= CCV drift outside limits; average CCV drift within limits per method requirements



37.0

Curtis & Tompkins, Ltd.
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Batch QC Report

## Polychlorinated Biphenyl Congeners

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8082 |
| Field ID: | MW5.2-081605 | Batch#: | 105053 |
| MSS Lab ID: | 181341-006 | Sampled: | 08/16/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Prepared: | 08/22/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/24/05 |

Type: MS
Lab ID: QC305947
Cleanup Method: EPA 3665A

| Analyte | MSS Result | Spiked | Result | %REC | Limits |
|---|---|---|---|---|---|
| BZ# 8 | <0.01196 | 0.9615 | 0.8380 | 87 | 50-150 |
| BZ# 18 | <0.02432 | 0.9615 | 0.8447 | 88 | 50-150 |
| BZ# 28 | <0.01952 | 0.9615 | 0.9042 | 94 | 50-150 |
| BZ# 52 | <0.01853 | 0.9615 | 0.7898 | 82 | 50-150 |
| BZ# 44 | <0.009652 | 0.9615 | 0.8267 | 86 | 50-150 |
| BZ# 66 | <0.009834 | 0.9615 | 0.9014 | 94 | 50-150 |
| BZ# 101 | <0.01287 | 0.9615 | 0.8485 | 88 | 50-150 |
| BZ# 81 | <0.01904 | 0.9615 | 0.9632 | 100 | 50-150 |
| BZ# 77 | <0.01027 | 0.9615 | 1.185 # | 123 | 50-150 |
| BZ# 123 | <0.01108 | 0.9615 | 0.8904 | 93 | 50-150 |
| BZ# 118 | <0.01026 | 0.9615 | 0.8924 | 93 | 50-150 |
| BZ# 114 | <0.01010 | 0.9615 | 0.9098 | 95 | 50-150 |
| BZ# 153 | <0.01447 | 0.9615 | 0.8231 | 86 | 50-150 |
| BZ# 105 | <0.01160 | 0.9615 | 0.9561 | 99 | 50-150 |
| BZ# 138 | <0.01062 | 0.9615 | 0.8578 | 89 | 50-150 |
| BZ# 187 | <0.009913 | 0.9615 | 0.7937 | 83 | 50-150 |
| BZ# 126 | <0.01229 | 0.9615 | 0.9861 | 103 | 50-150 |
| BZ# 128 | <0.01053 | 0.9615 | 0.8687 | 90 | 50-150 |
| BZ# 167 | <0.01005 | 0.9615 | 0.8779 | 91 | 50-150 |
| BZ# 156 | <0.01220 | 0.9615 | 0.8826 | 92 | 50-150 |
| BZ# 157 | <0.01061 | 0.9615 | 0.8977 | 93 | 50-150 |
| BZ# 180 | <0.01068 | 0.9615 | 0.7962 | 83 | 50-150 |
| BZ# 170 | <0.01442 | 0.9615 | 0.8386 | 87 | 50-150 |
| BZ# 169 | <0.01309 | 0.9615 | 1.006 | 105 | 50-150 |
| BZ# 189 | <0.01405 | 0.9615 | 0.9213 | 96 | 50-150 |
| BZ# 195 | <0.01261 | 0.9615 | 0.8331 | 87 | 50-150 |
| BZ# 206 | <0.01190 | 0.9615 | 0.7787 | 81 | 50-150 |
| BZ# 209 | <0.01531 | 0.9615 | 0.8038 | 84 | 50-150 |

| Surrogate | %REC | Limits |
|---|---|---|
| TCMX | 46 | 37-140 |
| BZ# 205 | 88 | 37-140 |

#= CCV drift outside limits; average CCV drift within limits per method requirements
RPD= Relative Percent Difference



38.0

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Batch QC Report

## Polychlorinated Biphenyl Congeners

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8082 |
| Field ID: | MW5.2-081605 | Batch#: | 105053 |
| MSS Lab ID: | 181341-006 | Sampled: | 08/16/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Prepared: | 08/22/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/24/05 |

Type: MSD
Lab ID: QC305948
Cleanup Method: EPA 3665A

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|
| BZ# 8 | 0.9709 | 0.8550 | 88 | 50-150 | 1 | 30 |
| BZ# 18 | 0.9709 | 0.8581 | 88 | 50-150 | 1 | 30 |
| BZ# 28 | 0.9709 | 0.9244 | 95 | 50-150 | 1 | 30 |
| BZ# 52 | 0.9709 | 0.8041 | 83 | 50-150 | 1 | 30 |
| BZ# 44 | 0.9709 | 0.8442 | 87 | 50-150 | 1 | 30 |
| BZ# 66 | 0.9709 | 0.9160 | 94 | 50-150 | 1 | 30 |
| BZ# 101 | 0.9709 | 0.8615 | 89 | 50-150 | 1 | 30 |
| BZ# 81 | 0.9709 | 1.001 | 103 | 50-150 | 3 | 30 |
| BZ# 77 | 0.9709 | 1.134 # | 117 | 50-150 | 5 | 30 |
| BZ# 123 | 0.9709 | 0.9014 | 93 | 50-150 | 0 | 30 |
| BZ# 118 | 0.9709 | 0.9024 | 93 | 50-150 | 0 | 30 |
| BZ# 114 | 0.9709 | 0.9216 | 95 | 50-150 | 0 | 30 |
| BZ# 153 | 0.9709 | 0.8331 | 86 | 50-150 | 0 | 30 |
| BZ# 105 | 0.9709 | 0.9703 | 100 | 50-150 | 1 | 30 |
| BZ# 138 | 0.9709 | 0.8662 | 89 | 50-150 | 0 | 30 |
| BZ# 187 | 0.9709 | 0.8001 | 82 | 50-150 | 0 | 30 |
| BZ# 126 | 0.9709 | 1.055 | 109 | 50-150 | 6 | 30 |
| BZ# 128 | 0.9709 | 0.8756 | 90 | 50-150 | 0 | 30 |
| BZ# 167 | 0.9709 | 0.8779 | 90 | 50-150 | 1 | 30 |
| BZ# 156 | 0.9709 | 0.8859 | 91 | 50-150 | 1 | 30 |
| BZ# 157 | 0.9709 | 0.8990 | 93 | 50-150 | 1 | 30 |
| BZ# 180 | 0.9709 | 0.7980 | 82 | 50-150 | 1 | 30 |
| BZ# 170 | 0.9709 | 0.8385 | 86 | 50-150 | 1 | 30 |
| BZ# 169 | 0.9709 | 0.9918 | 102 | 50-150 | 2 | 30 |
| BZ# 189 | 0.9709 | 0.9233 | 95 | 50-150 | 1 | 30 |
| BZ# 195 | 0.9709 | 0.8171 | 84 | 50-150 | 3 | 30 |
| BZ# 206 | 0.9709 | 0.7646 | 79 | 50-150 | 3 | 30 |
| BZ# 209 | 0.9709 | 0.7866 | 81 | 50-150 | 3 | 30 |

| Surrogate | %REC | Limits |
|---|---|---|
| TCMX | 48 | 37-140 |
| BZ# 205 | 88 | 37-140 |

#= CCV drift outside limits; average CCV drift within limits per method requirements
RPD= Relative Percent Difference



38.0

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# Polynuclear Aromatics by HPLC

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8310 |
| Field ID: | MW3.6-081605 | Batch#: | 105052 |
| Lab ID: | 181341-005 | Sampled: | 08/16/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Prepared: | 08/22/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/23/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Naphthalene | ND | 0.97 | 0.07 |
| Acenaphthylene | ND | 1.9 | 0.09 |
| Acenaphthene | ND | 0.97 | 0.06 |
| Fluorene | ND | 0.19 | 0.01 |
| Phenanthrene | ND | 0.10 | 0.009 |
| Anthracene | ND | 0.10 | 0.008 |
| Fluoranthene | ND | 0.19 | 0.02 |
| Pyrene | ND | 0.10 | 0.007 |
| Benzo(a)anthracene | ND | 0.10 | 0.005 |
| Chrysene | ND | 0.10 | 0.006 |
| Benzo(b)fluoranthene | ND | 0.19 | 0.009 |
| Benzo(k)fluoranthene | ND | 0.10 | 0.005 |
| Benzo(a)pyrene | ND | 0.10 | 0.008 |
| Dibenz(a,h)anthracene | ND | 0.19 | 0.009 |
| Benzo(g,h,i)perylene | ND | 0.19 | 0.01 |
| Indeno(1,2,3-cd)pyrene | ND | 0.10 | 0.006 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1-Methylnaphthalene (UV) | 90 | 58-132 |
| 1-Methylnaphthalene (F) | 98 | 56-135 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



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# Polynuclear Aromatics by HPLC

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8310 |
| Field ID: | MW5.2-081605 | Batch#: | 105052 |
| Lab ID: | 181341-006 | Sampled: | 08/16/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Prepared: | 08/22/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/23/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Naphthalene | ND | 0.97 | 0.07 |
| Acenaphthylene | ND | 1.9 | 0.09 |
| Acenaphthene | ND | 0.97 | 0.06 |
| Fluorene | ND | 0.19 | 0.01 |
| Phenanthrene | ND | 0.10 | 0.009 |
| Anthracene | ND | 0.10 | 0.008 |
| Fluoranthene | ND | 0.19 | 0.02 |
| Pyrene | ND | 0.10 | 0.007 |
| Benzo(a)anthracene | ND | 0.10 | 0.005 |
| Chrysene | ND | 0.10 | 0.006 |
| Benzo(b)fluoranthene | ND | 0.19 | 0.009 |
| Benzo(k)fluoranthene | ND | 0.10 | 0.005 |
| Benzo(a)pyrene | ND | 0.10 | 0.008 |
| Dibenz(a,h)anthracene | ND | 0.19 | 0.009 |
| Benzo(g,h,i)perylene | ND | 0.19 | 0.01 |
| Indeno(1,2,3-cd)pyrene | ND | 0.10 | 0.006 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1-Methylnaphthalene (UV) | 89 | 58-132 |
| 1-Methylnaphthalene (F) | 98 | 56-135 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



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# Polynuclear Aromatics by HPLC

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8310 |
| Field ID: | MWDUP2-081605 | Batch#: | 105052 |
| Lab ID: | 181341-007 | Sampled: | 08/16/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Prepared: | 08/22/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/23/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Naphthalene | ND | 0.97 | 0.07 |
| Acenaphthylene | ND | 1.9 | 0.09 |
| Acenaphthene | ND | 0.97 | 0.06 |
| Fluorene | ND | 0.19 | 0.01 |
| Phenanthrene | ND | 0.10 | 0.009 |
| Anthracene | ND | 0.10 | 0.008 |
| Fluoranthene | ND | 0.19 | 0.02 |
| Pyrene | ND | 0.10 | 0.007 |
| Benzo(a)anthracene | ND | 0.10 | 0.005 |
| Chrysene | ND | 0.10 | 0.006 |
| Benzo(b)fluoranthene | ND | 0.19 | 0.009 |
| Benzo(k)fluoranthene | ND | 0.10 | 0.005 |
| Benzo(a)pyrene | ND | 0.10 | 0.008 |
| Dibenz(a,h)anthracene | ND | 0.19 | 0.009 |
| Benzo(g,h,i)perylene | ND | 0.19 | 0.01 |
| Indeno(1,2,3-cd)pyrene | ND | 0.10 | 0.006 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1-Methylnaphthalene (UV) | 98 | 58-132 |
| 1-Methylnaphthalene (F) | 106 | 56-135 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



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# Polynuclear Aromatics by HPLC

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8310 |
| Field ID: | MW5.3-081605 | Batch#: | 105052 |
| Lab ID: | 181341-008 | Sampled: | 08/16/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Prepared: | 08/22/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/23/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Naphthalene | 0.71 J | 0.97 | 0.07 |
| Acenaphthylene | ND | 1.9 | 0.09 |
| Acenaphthene | ND | 0.97 | 0.06 |
| Fluorene | ND | 0.19 | 0.01 |
| Phenanthrene | ND | 0.10 | 0.009 |
| Anthracene | ND | 0.10 | 0.008 |
| Fluoranthene | ND | 0.19 | 0.02 |
| Pyrene | ND | 0.10 | 0.007 |
| Benzo(a)anthracene | ND | 0.10 | 0.005 |
| Chrysene | ND | 0.10 | 0.006 |
| Benzo(b)fluoranthene | ND | 0.19 | 0.009 |
| Benzo(k)fluoranthene | ND | 0.10 | 0.005 |
| Benzo(a)pyrene | ND | 0.10 | 0.008 |
| Dibenz(a,h)anthracene | ND | 0.19 | 0.009 |
| Benzo(g,h,i)perylene | ND | 0.19 | 0.01 |
| Indeno(1,2,3-cd)pyrene | ND | 0.10 | 0.006 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1-Methylnaphthalene (UV) | 86 | 58-132 |
| 1-Methylnaphthalene (F) | 94 | 56-135 |

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



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# Polynuclear Aromatics by HPLC

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8310 |
| Field ID: | MW5.4-081605 | Batch#: | 105052 |
| Lab ID: | 181341-009 | Sampled: | 08/16/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Prepared: | 08/22/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/23/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Naphthalene | ND | 0.96 | 0.07 |
| Acenaphthylene | ND | 1.9 | 0.09 |
| Acenaphthene | ND | 0.96 | 0.06 |
| Fluorene | ND | 0.19 | 0.01 |
| Phenanthrene | ND | 0.10 | 0.009 |
| Anthracene | ND | 0.10 | 0.008 |
| Fluoranthene | ND | 0.19 | 0.01 |
| Pyrene | ND | 0.10 | 0.007 |
| Benzo(a)anthracene | ND | 0.10 | 0.005 |
| Chrysene | ND | 0.10 | 0.006 |
| Benzo(b)fluoranthene | ND | 0.19 | 0.009 |
| Benzo(k)fluoranthene | ND | 0.10 | 0.005 |
| Benzo(a)pyrene | ND | 0.10 | 0.008 |
| Dibenz(a,h)anthracene | ND | 0.19 | 0.009 |
| Benzo(g,h,i)perylene | ND | 0.19 | 0.01 |
| Indeno(1,2,3-cd)pyrene | ND | 0.10 | 0.006 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1-Methylnaphthalene (UV) | 99 | 58-132 |
| 1-Methylnaphthalene (F) | 108 | 56-135 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



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Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Polynuclear Aromatics by HPLC

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8310 |
| Field ID: | MW3.7-081705 | Batch#: | 105052 |
| Lab ID: | 181341-010 | Sampled: | 08/17/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Prepared: | 08/22/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/23/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Naphthalene | ND | 0.99 | 0.07 |
| Acenaphthylene | ND | 2.0 | 0.09 |
| Acenaphthene | ND | 0.99 | 0.06 |
| Fluorene | ND | 0.20 | 0.02 |
| Phenanthrene | ND | 0.10 | 0.009 |
| Anthracene | ND | 0.10 | 0.008 |
| Fluoranthene | ND | 0.20 | 0.02 |
| Pyrene | ND | 0.10 | 0.007 |
| Benzo(a)anthracene | ND | 0.10 | 0.005 |
| Chrysene | ND | 0.10 | 0.007 |
| Benzo(b)fluoranthene | ND | 0.20 | 0.009 |
| Benzo(k)fluoranthene | ND | 0.10 | 0.005 |
| Benzo(a)pyrene | ND | 0.10 | 0.008 |
| Dibenz(a,h)anthracene | ND | 0.20 | 0.009 |
| Benzo(g,h,i)perylene | ND | 0.20 | 0.01 |
| Indeno(1,2,3-cd)pyrene | ND | 0.10 | 0.006 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1-Methylnaphthalene (UV) | 91 | 58-132 |
| 1-Methylnaphthalene (F) | 98 | 56-135 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



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Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Polynuclear Aromatics by HPLC

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8310 |
| Field ID: | MW3.8-081705 | Batch#: | 105052 |
| Lab ID: | 181341-011 | Sampled: | 08/17/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Prepared: | 08/22/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/24/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Naphthalene | ND | 0.97 | 0.07 |
| Acenaphthylene | ND | 1.9 | 0.09 |
| Acenaphthene | ND | 0.97 | 0.06 |
| Fluorene | ND | 0.19 | 0.01 |
| Phenanthrene | ND | 0.10 | 0.009 |
| Anthracene | ND | 0.10 | 0.008 |
| Fluoranthene | ND | 0.19 | 0.02 |
| Pyrene | ND | 0.10 | 0.007 |
| Benzo(a)anthracene | ND | 0.10 | 0.005 |
| Chrysene | ND | 0.10 | 0.006 |
| Benzo(b)fluoranthene | ND | 0.19 | 0.009 |
| Benzo(k)fluoranthene | ND | 0.10 | 0.005 |
| Benzo(a)pyrene | ND | 0.10 | 0.008 |
| Dibenz(a,h)anthracene | ND | 0.19 | 0.009 |
| Benzo(g,h,i)perylene | ND | 0.19 | 0.01 |
| Indeno(1,2,3-cd)pyrene | ND | 0.10 | 0.006 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1-Methylnaphthalene (UV) | 91 | 58-132 |
| 1-Methylnaphthalene (F) | 97 | 56-135 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



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# Polynuclear Aromatics by HPLC

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8310 |
| Field ID: | MW3.9-081705 | Batch#: | 105052 |
| Lab ID: | 181341-012 | Sampled: | 08/17/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Prepared: | 08/22/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/24/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Naphthalene | ND | 0.95 | 0.07 |
| Acenaphthylene | ND | 1.9 | 0.09 |
| Acenaphthene | ND | 0.95 | 0.06 |
| Fluorene | ND | 0.19 | 0.01 |
| Phenanthrene | ND | 0.10 | 0.008 |
| Anthracene | ND | 0.10 | 0.008 |
| Fluoranthene | ND | 0.19 | 0.01 |
| Pyrene | ND | 0.10 | 0.007 |
| Benzo(a)anthracene | ND | 0.10 | 0.005 |
| Chrysene | ND | 0.10 | 0.006 |
| Benzo(b)fluoranthene | ND | 0.19 | 0.009 |
| Benzo(k)fluoranthene | ND | 0.10 | 0.005 |
| Benzo(a)pyrene | ND | 0.10 | 0.007 |
| Dibenz(a,h)anthracene | ND | 0.19 | 0.008 |
| Benzo(g,h,i)perylene | ND | 0.19 | 0.009 |
| Indeno(1,2,3-cd)pyrene | ND | 0.10 | 0.006 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1-Methylnaphthalene (UV) | 88 | 58-132 |
| 1-Methylnaphthalene (F) | 96 | 56-135 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



46.0

Curtis & Tompkins, Ltd.
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# Polynuclear Aromatics by HPLC

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8310 |
| Field ID: | MW5.5-081705 | Batch#: | 105052 |
| Lab ID: | 181341-013 | Sampled: | 08/17/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Prepared: | 08/22/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/24/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Naphthalene | ND | 0.97 | 0.07 |
| Acenaphthylene | ND | 1.9 | 0.09 |
| Acenaphthene | ND | 0.97 | 0.06 |
| Fluorene | ND | 0.19 | 0.01 |
| Phenanthrene | ND | 0.10 | 0.009 |
| Anthracene | ND | 0.10 | 0.008 |
| Fluoranthene | ND | 0.19 | 0.02 |
| Pyrene | ND | 0.10 | 0.007 |
| Benzo(a)anthracene | ND | 0.10 | 0.005 |
| Chrysene | ND | 0.10 | 0.006 |
| Benzo(b)fluoranthene | ND | 0.19 | 0.009 |
| Benzo(k)fluoranthene | ND | 0.10 | 0.005 |
| Benzo(a)pyrene | ND | 0.10 | 0.008 |
| Dibenz(a,h)anthracene | ND | 0.19 | 0.009 |
| Benzo(g,h,i)perylene | ND | 0.19 | 0.01 |
| Indeno(1,2,3-cd)pyrene | ND | 0.10 | 0.006 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1-Methylnaphthalene (UV) | 86 | 58-132 |
| 1-Methylnaphthalene (F) | 92 | 56-135 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



47.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Polynuclear Aromatics by HPLC

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8310 |
| Field ID: | MW5.6-081705 | Batch#: | 105052 |
| Lab ID: | 181341-014 | Sampled: | 08/17/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Prepared: | 08/22/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/24/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Naphthalene | ND | 0.96 | 0.07 |
| Acenaphthylene | ND | 1.9 | 0.09 |
| Acenaphthene | ND | 0.96 | 0.06 |
| Fluorene | ND | 0.19 | 0.01 |
| Phenanthrene | ND | 0.10 | 0.009 |
| Anthracene | ND | 0.10 | 0.008 |
| Fluoranthene | ND | 0.19 | 0.01 |
| Pyrene | ND | 0.10 | 0.007 |
| Benzo(a)anthracene | ND | 0.10 | 0.005 |
| Chrysene | ND | 0.10 | 0.006 |
| Benzo(b)fluoranthene | ND | 0.19 | 0.009 |
| Benzo(k)fluoranthene | ND | 0.10 | 0.005 |
| Benzo(a)pyrene | ND | 0.10 | 0.008 |
| Dibenz(a,h)anthracene | ND | 0.19 | 0.009 |
| Benzo(g,h,i)perylene | ND | 0.19 | 0.01 |
| Indeno(1,2,3-cd)pyrene | ND | 0.10 | 0.006 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1-Methylnaphthalene (UV) | 85 | 58-132 |
| 1-Methylnaphthalene (F) | 91 | 56-135 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



48.0

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# Polynuclear Aromatics by HPLC

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8310 |
| Field ID: | MW5.7-081705 | Batch#: | 105052 |
| Lab ID: | 181341-015 | Sampled: | 08/17/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Prepared: | 08/22/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/24/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Naphthalene | ND | 0.96 | 0.07 |
| Acenaphthylene | ND | 1.9 | 0.09 |
| Acenaphthene | ND | 0.96 | 0.06 |
| Fluorene | ND | 0.19 | 0.01 |
| Phenanthrene | ND | 0.10 | 0.009 |
| Anthracene | ND | 0.10 | 0.008 |
| Fluoranthene | 0.03 J | 0.19 | 0.01 |
| Pyrene | ND | 0.10 | 0.007 |
| Benzo(a)anthracene | ND | 0.10 | 0.005 |
| Chrysene | ND | 0.10 | 0.006 |
| Benzo(b)fluoranthene | ND | 0.19 | 0.009 |
| Benzo(k)fluoranthene | ND | 0.10 | 0.005 |
| Benzo(a)pyrene | ND | 0.10 | 0.008 |
| Dibenz(a,h)anthracene | ND | 0.19 | 0.009 |
| Benzo(g,h,i)perylene | ND | 0.19 | 0.01 |
| Indeno(1,2,3-cd)pyrene | ND | 0.10 | 0.006 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1-Methylnaphthalene (UV) | 92 | 58-132 |
| 1-Methylnaphthalene (F) | 100 | 56-135 |

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



49.0

Curtis & Tompkins, Ltd.
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Batch QC Report

## Polynuclear Aromatics by HPLC

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8310 |
| Type: | BLANK | Diln Fac: | 1.000 |
| Lab ID: | QC305941 | Batch#: | 105052 |
| Matrix: | Water | Prepared: | 08/22/05 |
| Units: | ug/L | Analyzed: | 08/23/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Naphthalene | ND | 1.0 | 0.07 |
| Acenaphthylene | ND | 2.0 | 0.09 |
| Acenaphthene | ND | 1.0 | 0.06 |
| Fluorene | ND | 0.20 | 0.02 |
| Phenanthrene | ND | 0.10 | 0.009 |
| Anthracene | ND | 0.10 | 0.008 |
| Fluoranthene | ND | 0.20 | 0.02 |
| Pyrene | ND | 0.10 | 0.007 |
| Benzo(a)anthracene | ND | 0.10 | 0.005 |
| Chrysene | ND | 0.10 | 0.007 |
| Benzo(b)fluoranthene | ND | 0.20 | 0.01 |
| Benzo(k)fluoranthene | ND | 0.10 | 0.005 |
| Benzo(a)pyrene | ND | 0.10 | 0.008 |
| Dibenz(a,h)anthracene | ND | 0.20 | 0.009 |
| Benzo(g,h,i)perylene | ND | 0.20 | 0.01 |
| Indeno(1,2,3-cd)pyrene | ND | 0.10 | 0.006 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1-Methylnaphthalene (UV) | 83 | 58-132 |
| 1-Methylnaphthalene (F) | 92 | 56-135 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



50.0

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Analytical Laboratories, Since 1878

Batch QC Report

## Polynuclear Aromatics by HPLC

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8310 |
| Type: | LCS | Diln Fac: | 1.000 |
| Lab ID: | QC305942 | Batch#: | 105052 |
| Matrix: | Water | Prepared: | 08/22/05 |
| Units: | ug/L | Analyzed: | 08/23/05 |

| Analyte | Spiked | Result | %REC | Limits |
|---|---|---|---|---|
| Naphthalene | 10.00 | 9.742 | 97 | 67-120 |
| Acenaphthylene | 20.00 | 19.77 | 99 | 70-120 |
| Acenaphthene | 10.00 | 10.21 | 102 | 66-120 |
| Fluorene | 2.000 | 2.051 | 103 | 69-120 |
| Phenanthrene | 1.000 | 1.085 | 109 | 63-120 |
| Anthracene | 1.000 | 1.148 | 115 | 63-120 |
| Benzo(k)fluoranthene | 1.000 | 1.122 | 112 | 65-124 |
| Indeno(1,2,3-cd)pyrene | 1.000 | 1.120 | 112 | 62-123 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1-Methylnaphthalene (UV) | 94 | 58-132 |
| 1-Methylnaphthalene (F) | 101 | 56-135 |



51.0

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Batch QC Report

## Polynuclear Aromatics by HPLC

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8310 |
| Field ID: | MW5.2-081605 | Batch#: | 105052 |
| MSS Lab ID: | 181341-006 | Sampled: | 08/16/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Prepared: | 08/22/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/23/05 |

Type: MS Lab ID: QC305943

| Analyte | MSS Result | Spiked | Result | %REC | Limits |
|---|---|---|---|---|---|
| Naphthalene | <0.07025 | 9.709 | 9.423 | 97 | 42-122 |
| Acenaphthylene | <0.09185 | 19.42 | 18.71 | 96 | 51-126 |
| Acenaphthene | <0.06250 | 9.709 | 9.799 | 101 | 41-156 |
| Fluorene | <0.01498 | 1.942 | 1.900 | 98 | 39-150 |
| Phenanthrene | <0.008593 | 0.9709 | 0.9939 | 102 | 25-205 |
| Anthracene | <0.007922 | 0.9709 | 1.065 | 110 | 56-151 |
| Benzo(k)fluoranthene | <0.005005 | 0.9709 | 1.020 | 105 | 18-146 |
| Indeno(1,2,3-cd)pyrene | <0.006209 | 0.9709 | 1.019 | 105 | 55-159 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1-Methylnaphthalene (UV) | 91 | 58-132 |
| 1-Methylnaphthalene (F) | 99 | 56-135 |

Type: MSD Lab ID: QC305944

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|
| Naphthalene | 9.615 | 9.657 | 100 | 42-122 | 3 | 36 |
| Acenaphthylene | 19.23 | 19.62 | 102 | 51-126 | 6 | 34 |
| Acenaphthene | 9.615 | 10.14 | 105 | 41-156 | 4 | 38 |
| Fluorene | 1.923 | 2.005 | 104 | 39-150 | 6 | 35 |
| Phenanthrene | 0.9615 | 1.072 | 111 | 25-205 | 8 | 33 |
| Anthracene | 0.9615 | 1.129 | 117 | 56-151 | 7 | 34 |
| Benzo(k)fluoranthene | 0.9615 | 1.070 | 111 | 18-146 | 6 | 34 |
| Indeno(1,2,3-cd)pyrene | 0.9615 | 1.075 | 112 | 55-159 | 6 | 33 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1-Methylnaphthalene (UV) | 96 | 58-132 |
| 1-Methylnaphthalene (F) | 105 | 56-135 |

RPD= Relative Percent Difference



52.0

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# Dissolved California Title 26 Metals

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Project#: | 16017.01 |
| Client: | Acton Mickelson Environmental | Location: | Former GA-Pacific Sawmill |
| Field ID: | MW3.6-081605 | Diln Fac: | 1.000 |
| Lab ID: | 181341-005 | Sampled: | 08/16/05 |
| Matrix: | Filtrate | Received: | 08/18/05 |
| Units: | ug/L | Prepared: | 08/19/05 |

| Analyte | Result | RL | Batch# | Analyzed | Prep | Analysis |
|---|---|---|---|---|---|---|
| Antimony | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Arsenic | 1.2 | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Barium | 13 | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Beryllium | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Cadmium | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Chromium | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Cobalt | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Copper | 1.4 | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Lead | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Mercury | ND | 0.20 | 105016 | 08/19/05 | METHOD | EPA 7470A |
| Molybdenum | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Nickel | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Selenium | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Silver | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Thallium | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Vanadium | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Zinc | 12 | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
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# Dissolved California Title 26 Metals

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Project#: | 16017.01 |
| Client: | Acton Mickelson Environmental | Location: | Former GA-Pacific Sawmill |
| Field ID: | MW5.2-081605 | Diln Fac: | 1.000 |
| Lab ID: | 181341-006 | Sampled: | 08/16/05 |
| Matrix: | Filtrate | Received: | 08/18/05 |
| Units: | ug/L | Prepared: | 08/19/05 |

| Analyte | Result | RL | Batch# | Analyzed | Prep | Analysis |
|---|---|---|---|---|---|---|
| Antimony | ND | 1.0 | 104985 | 08/26/05 | 200.8 | EPA 6020 |
| Arsenic | 2.5 | 1.0 | 104985 | 08/26/05 | 200.8 | EPA 6020 |
| Barium | 7.6 | 1.0 | 104985 | 08/26/05 | 200.8 | EPA 6020 |
| Beryllium | ND | 1.0 | 104985 | 08/26/05 | 200.8 | EPA 6020 |
| Cadmium | ND | 1.0 | 104985 | 08/26/05 | 200.8 | EPA 6020 |
| Chromium | ND | 1.0 | 104985 | 08/26/05 | 200.8 | EPA 6020 |
| Cobalt | ND | 1.0 | 104985 | 08/26/05 | 200.8 | EPA 6020 |
| Copper | ND | 1.0 | 104985 | 08/26/05 | 200.8 | EPA 6020 |
| Lead | ND | 1.0 | 104985 | 08/26/05 | 200.8 | EPA 6020 |
| Mercury | ND | 0.20 | 105016 | 08/19/05 | METHOD | EPA 7470A |
| Molybdenum | ND | 1.0 | 104985 | 08/26/05 | 200.8 | EPA 6020 |
| Nickel | ND | 1.0 | 104985 | 08/26/05 | 200.8 | EPA 6020 |
| Selenium | ND | 1.0 | 104985 | 08/26/05 | 200.8 | EPA 6020 |
| Silver | ND | 1.0 | 104985 | 08/26/05 | 200.8 | EPA 6020 |
| Thallium | 1.6 | 1.0 | 104985 | 08/26/05 | 200.8 | EPA 6020 |
| Vanadium | ND | 1.0 | 104985 | 08/26/05 | 200.8 | EPA 6020 |
| Zinc | 2.2 | 1.0 | 104985 | 08/26/05 | 200.8 | EPA 6020 |

ND= Not Detected
RL= Reporting Limit



74.0

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# Dissolved California Title 26 Metals

| | | | |
|---|---|---|---|
| Lab #: 181341 | | Project#: | 16017.01 |
| Client: Acton Mickelson Environmental | | Location: | Former GA-Pacific Sawmill |
| Field ID: | MWDUP2-081605 | Diln Fac: | 1.000 |
| Lab ID: | 181341-007 | Sampled: | 08/16/05 |
| Matrix: | Filtrate | Received: | 08/18/05 |
| Units: | ug/L | Prepared: | 08/19/05 |

| Analyte | Result | RL | Batch# | Analyzed | Prep | Analysis |
|---|---|---|---|---|---|---|
| Antimony | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Arsenic | 6.5 | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Barium | 11 | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Beryllium | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Cadmium | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Chromium | 1.0 | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Cobalt | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Copper | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Lead | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Mercury | ND | 0.20 | 105016 | 08/19/05 | METHOD | EPA 7470A |
| Molybdenum | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Nickel | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Selenium | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Silver | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Thallium | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Vanadium | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Zinc | 3.5 | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |

ND= Not Detected
RL= Reporting Limit



75.0

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# Dissolved California Title 26 Metals

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Project#: | 16017.01 |
| Client: | Acton Mickelson Environmental | Location: | Former GA-Pacific Sawmill |
| Field ID: | MW5.3-081605 | Diln Fac: | 1.000 |
| Lab ID: | 181341-008 | Sampled: | 08/16/05 |
| Matrix: | Filtrate | Received: | 08/18/05 |
| Units: | ug/L | Prepared: | 08/19/05 |

| Analyte | Result | RL | Batch# | Analyzed | Prep | Analysis |
|---|---|---|---|---|---|---|
| Antimony | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Arsenic | 7.3 | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Barium | 30 | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Beryllium | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Cadmium | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Chromium | 2.2 | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Cobalt | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Copper | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Lead | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Mercury | ND | 0.20 | 105016 | 08/19/05 | METHOD | EPA 7470A |
| Molybdenum | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Nickel | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Selenium | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Silver | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Thallium | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Vanadium | 2.6 | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Zinc | 9.7 | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |

ND= Not Detected
RL= Reporting Limit

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# Dissolved California Title 26 Metals

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Project#: | 16017.01 |
| Client: | Acton Mickelson Environmental | Location: | Former GA-Pacific Sawmill |
| Field ID: | MW5.4-081605 | Diln Fac: | 1.000 |
| Lab ID: | 181341-009 | Sampled: | 08/16/05 |
| Matrix: | Filtrate | Received: | 08/18/05 |
| Units: | ug/L | Prepared: | 08/19/05 |

| Analyte | Result | RL | Batch# | Analyzed | Prep | Analysis |
|---|---|---|---|---|---|---|
| Antimony | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Arsenic | 6.2 | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Barium | 11 | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Beryllium | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Cadmium | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Chromium | 1.3 | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Cobalt | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Copper | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Lead | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Mercury | ND | 0.20 | 105016 | 08/19/05 | METHOD | EPA 7470A |
| Molybdenum | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Nickel | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Selenium | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Silver | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Thallium | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Vanadium | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Zinc | 7.9 | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |

ND= Not Detected
RL= Reporting Limit

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# Dissolved California Title 26 Metals

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Project#: | 16017.01 |
| Client: | Acton Mickelson Environmental | Location: | Former GA-Pacific Sawmill |
| Field ID: | MW3.7-081705 | Diln Fac: | 1.000 |
| Lab ID: | 181341-010 | Sampled: | 08/17/05 |
| Matrix: | Filtrate | Received: | 08/18/05 |
| Units: | ug/L | Prepared: | 08/19/05 |

| Analyte | Result | RL | Batch# | Analyzed | Prep | Analysis |
|---|---|---|---|---|---|---|
| Antimony | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Arsenic | 1.5 | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Barium | 100 | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Beryllium | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Cadmium | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Chromium | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Cobalt | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Copper | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Lead | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Mercury | ND | 0.20 | 105016 | 08/19/05 | METHOD | EPA 7470A |
| Molybdenum | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Nickel | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Selenium | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Silver | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Thallium | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Vanadium | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Zinc | 6.9 | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |

ND= Not Detected
RL= Reporting Limit



78.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Dissolved California Title 26 Metals

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Project#: | 16017.01 |
| Client: | Acton Mickelson Environmental | Location: | Former GA-Pacific Sawmill |
| Field ID: | MW3.8-081705 | Diln Fac: | 1.000 |
| Lab ID: | 181341-011 | Sampled: | 08/17/05 |
| Matrix: | Filtrate | Received: | 08/18/05 |
| Units: | ug/L | Prepared: | 08/19/05 |

| Analyte | Result | RL | Batch# | Analyzed | Prep | Analysis |
|---|---|---|---|---|---|---|
| Antimony | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Arsenic | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Barium | 43 | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Beryllium | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Cadmium | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Chromium | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Cobalt | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Copper | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Lead | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Mercury | ND | 0.20 | 105016 | 08/19/05 | METHOD | EPA 7470A |
| Molybdenum | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Nickel | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Selenium | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Silver | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Thallium | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Vanadium | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Zinc | 2.6 | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Dissolved California Title 26 Metals

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Project#: | 16017.01 |
| Client: | Acton Mickelson Environmental | Location: | Former GA-Pacific Sawmill |
| Field ID: | MW3.9-081705 | Diln Fac: | 1.000 |
| Lab ID: | 181341-012 | Sampled: | 08/17/05 |
| Matrix: | Filtrate | Received: | 08/18/05 |
| Units: | ug/L | Prepared: | 08/19/05 |

| Analyte | Result | RL | Batch# | Analyzed | Prep | Analysis |
|---|---|---|---|---|---|---|
| Antimony | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Arsenic | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Barium | 27 | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Beryllium | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Cadmium | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Chromium | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Cobalt | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Copper | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Lead | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Mercury | ND | 0.20 | 105016 | 08/19/05 | METHOD | EPA 7470A |
| Molybdenum | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Nickel | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Selenium | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Silver | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Thallium | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Vanadium | 1.4 | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Zinc | 7.0 | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |

ND= Not Detected
RL= Reporting Limit



80.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Dissolved California Title 26 Metals

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Project#: | 16017.01 |
| Client: | Acton Mickelson Environmental | Location: | Former GA-Pacific Sawmill |
| Field ID: | MW5.5-081705 | Diln Fac: | 1.000 |
| Lab ID: | 181341-013 | Sampled: | 08/17/05 |
| Matrix: | Filtrate | Received: | 08/18/05 |
| Units: | ug/L | Prepared: | 08/19/05 |

| Analyte | Result | RL | Batch# | Analyzed | Prep | Analysis |
|---|---|---|---|---|---|---|
| Antimony | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Arsenic | 14 | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Barium | 150 | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Beryllium | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Cadmium | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Chromium | 1.4 | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Cobalt | 2.1 | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Copper | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Lead | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Mercury | ND | 0.20 | 105016 | 08/19/05 | METHOD | EPA 7470A |
| Molybdenum | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Nickel | 1.4 | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Selenium | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Silver | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Thallium | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Vanadium | 2.7 | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Zinc | 4.5 | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |

ND= Not Detected
RL= Reporting Limit



81.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Dissolved California Title 26 Metals

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Project#: | 16017.01 |
| Client: | Acton Mickelson Environmental | Location: | Former GA-Pacific Sawmill |
| Field ID: | MW5.6-081705 | Diln Fac: | 1.000 |
| Lab ID: | 181341-014 | Sampled: | 08/17/05 |
| Matrix: | Filtrate | Received: | 08/18/05 |
| Units: | ug/L | Prepared: | 08/19/05 |

| Analyte | Result | RL | Batch# | Analyzed | Prep | Analysis |
|---|---|---|---|---|---|---|
| Antimony | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Arsenic | 9.7 | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Barium | 150 | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Beryllium | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Cadmium | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Chromium | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Cobalt | 4.2 | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Copper | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Lead | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Mercury | ND | 0.20 | 105016 | 08/19/05 | METHOD | EPA 7470A |
| Molybdenum | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Nickel | 2.1 | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Selenium | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Silver | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Thallium | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Vanadium | ND | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Zinc | 6.2 | 1.0 | 104985 | 08/27/05 | 200.8 | EPA 6020 |

ND= Not Detected
RL= Reporting Limit



82.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Dissolved California Title 26 Metals

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Project#: | 16017.01 |
| Client: | Acton Mickelson Environmental | Location: | Former GA-Pacific Sawmill |
| Field ID: | MW5.7-081705 | Sampled: | 08/17/05 |
| Lab ID: | 181341-015 | Received: | 08/18/05 |
| Matrix: | Filtrate | Prepared: | 08/19/05 |
| Units: | ug/L | | |

| Analyte | Result | RL | Diln Fac | Batch# | Analyzed | Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Antimony | ND | 1.0 | 1.000 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Arsenic | 14 | 1.0 | 1.000 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Barium | 210 | 2.0 | 2.000 | 104985 | 08/29/05 | 200.8 | EPA 6020 |
| Beryllium | ND | 1.0 | 1.000 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Cadmium | ND | 1.0 | 1.000 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Chromium | ND | 1.0 | 1.000 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Cobalt | ND | 1.0 | 1.000 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Copper | ND | 1.0 | 1.000 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Lead | ND | 1.0 | 1.000 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Mercury | ND | 0.20 | 1.000 | 105016 | 08/19/05 | METHOD | EPA 7470A |
| Molybdenum | ND | 1.0 | 1.000 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Nickel | ND | 1.0 | 1.000 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Selenium | ND | 1.0 | 1.000 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Silver | ND | 1.0 | 1.000 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Thallium | ND | 1.0 | 1.000 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Vanadium | ND | 1.0 | 1.000 | 104985 | 08/27/05 | 200.8 | EPA 6020 |
| Zinc | 5.6 | 1.0 | 1.000 | 104985 | 08/27/05 | 200.8 | EPA 6020 |

ND= Not Detected
RL= Reporting Limit



83.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

## Dissolved California Title 26 Metals

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | 200.8 |
| Project#: | 16017.01 | Analysis: | EPA 6020 |
| Type: | BLANK | Diln Fac: | 1.000 |
| Lab ID: | QC305672 | Batch#: | 104985 |
| Matrix: | Filtrate | Prepared: | 08/19/05 |
| Units: | ug/L | Analyzed: | 08/26/05 |

| Analyte | Result | RL |
|---|---|---|
| Antimony | ND | 1.0 |
| Arsenic | ND | 1.0 |
| Barium | ND | 1.0 |
| Beryllium | ND | 1.0 |
| Cadmium | ND | 1.0 |
| Chromium | ND | 1.0 |
| Cobalt | ND | 1.0 |
| Copper | ND | 1.0 |
| Lead | ND | 1.0 |
| Molybdenum | ND | 1.0 |
| Nickel | ND | 1.0 |
| Selenium | ND | 1.0 |
| Silver | ND | 1.0 |
| Thallium | ND | 1.0 |
| Vanadium | ND | 1.0 |
| Zinc | ND | 1.0 |

ND= Not Detected
RL= Reporting Limit



84.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

## Dissolved California Title 26 Metals

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | 200.8 |
| Project#: | 16017.01 | Analysis: | EPA 6020 |
| Matrix: | Filtrate | Batch#: | 104985 |
| Units: | ug/L | Prepared: | 08/19/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/26/05 |

Type: BS Lab ID: QC305673

| Analyte | Spiked | Result | %REC | Limits |
|---|---|---|---|---|
| Antimony | 100.0 | 101.0 | 101 | 80-120 |
| Arsenic | 100.0 | 101.2 | 101 | 80-120 |
| Barium | 100.0 | 101.7 | 102 | 80-120 |
| Beryllium | 100.0 | 104.6 | 105 | 80-120 |
| Cadmium | 100.0 | 100.9 | 101 | 80-120 |
| Chromium | 100.0 | 103.5 | 104 | 80-120 |
| Cobalt | 100.0 | 106.5 | 107 | 80-120 |
| Copper | 100.0 | 108.2 | 108 | 80-120 |
| Lead | 100.0 | 102.5 | 103 | 80-120 |
| Molybdenum | 100.0 | 102.9 | 103 | 80-120 |
| Nickel | 100.0 | 107.0 | 107 | 80-120 |
| Selenium | 100.0 | 95.07 | 95 | 80-120 |
| Silver | 100.0 | 104.3 | 104 | 80-120 |
| Thallium | 100.0 | 97.86 | 98 | 80-120 |
| Vanadium | 100.0 | 105.1 | 105 | 80-120 |
| Zinc | 100.0 | 100.1 | 100 | 80-120 |

Type: BSD Lab ID: QC305674

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|
| Antimony | 100.0 | 100.5 | 101 | 80-120 | 0 | 20 |
| Arsenic | 100.0 | 101.1 | 101 | 80-120 | 0 | 20 |
| Barium | 100.0 | 101.5 | 102 | 80-120 | 0 | 20 |
| Beryllium | 100.0 | 104.6 | 105 | 80-120 | 0 | 20 |
| Cadmium | 100.0 | 102.3 | 102 | 80-120 | 1 | 20 |
| Chromium | 100.0 | 102.4 | 102 | 80-120 | 1 | 20 |
| Cobalt | 100.0 | 100.6 | 101 | 80-120 | 6 | 20 |
| Copper | 100.0 | 105.4 | 105 | 80-120 | 3 | 20 |
| Lead | 100.0 | 101.1 | 101 | 80-120 | 1 | 20 |
| Molybdenum | 100.0 | 104.8 | 105 | 80-120 | 2 | 20 |
| Nickel | 100.0 | 105.6 | 106 | 80-120 | 1 | 20 |
| Selenium | 100.0 | 96.67 | 97 | 80-120 | 2 | 20 |
| Silver | 100.0 | 106.1 | 106 | 80-120 | 2 | 20 |
| Thallium | 100.0 | 99.24 | 99 | 80-120 | 1 | 20 |
| Vanadium | 100.0 | 104.2 | 104 | 80-120 | 1 | 20 |
| Zinc | 100.0 | 99.03 | 99 | 80-120 | 1 | 20 |

RPD= Relative Percent Difference



86.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

## Dissolved California Title 26 Metals

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | 200.8 |
| Project#: | 16017.01 | Analysis: | EPA 6020 |
| Field ID: | MW5.2-081605 | Batch#: | 104985 |
| MSS Lab ID: | 181341-006 | Sampled: | 08/16/05 |
| Matrix: | Filtrate | Received: | 08/18/05 |
| Units: | ug/L | Prepared: | 08/19/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/26/05 |

Type: MS Lab ID: QC305675

| Analyte | MSS Result | Spiked | Result | %REC | Limits |
|---|---|---|---|---|---|
| Antimony | 0.2584 | 100.0 | 99.53 | 99 | 80-120 |
| Arsenic | 2.504 | 100.0 | 100.6 | 98 | 80-120 |
| Barium | 7.563 | 100.0 | 109.0 | 101 | 77-125 |
| Beryllium | <0.05514 | 100.0 | 102.9 | 103 | 80-120 |
| Cadmium | <0.1409 | 100.0 | 96.10 | 96 | 78-120 |
| Chromium | 0.5403 | 100.0 | 100.4 | 100 | 80-120 |
| Cobalt | 0.05198 | 100.0 | 98.93 | 99 | 80-120 |
| Copper | 0.5780 | 100.0 | 101.8 | 101 | 80-120 |
| Lead | <0.2399 | 100.0 | 102.0 | 102 | 80-120 |
| Molybdenum | 0.6723 | 100.0 | 102.6 | 102 | 80-120 |
| Nickel | 0.2105 | 100.0 | 102.6 | 102 | 77-120 |
| Selenium | 0.4217 | 100.0 | 91.18 | 91 | 64-123 |
| Silver | 0.04195 | 100.0 | 100.6 | 101 | 71-120 |
| Thallium | 1.553 | 100.0 | 97.68 | 96 | 62-120 |
| Vanadium | 0.2643 | 100.0 | 102.5 | 102 | 78-130 |
| Zinc | 2.239 | 100.0 | 97.25 | 95 | 64-129 |

Type: MSD Lab ID: QC305676

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|
| Antimony | 100.0 | 100.4 | 100 | 80-120 | 1 | 20 |
| Arsenic | 100.0 | 103.8 | 101 | 80-120 | 3 | 20 |
| Barium | 100.0 | 109.9 | 102 | 77-125 | 1 | 20 |
| Beryllium | 100.0 | 104.9 | 105 | 80-120 | 2 | 20 |
| Cadmium | 100.0 | 98.87 | 99 | 78-120 | 3 | 20 |
| Chromium | 100.0 | 103.3 | 103 | 80-120 | 3 | 20 |
| Cobalt | 100.0 | 99.88 | 100 | 80-120 | 1 | 20 |
| Copper | 100.0 | 105.0 | 104 | 80-120 | 3 | 20 |
| Lead | 100.0 | 103.4 | 103 | 80-120 | 1 | 20 |
| Molybdenum | 100.0 | 105.5 | 105 | 80-120 | 3 | 20 |
| Nickel | 100.0 | 104.8 | 105 | 77-120 | 2 | 20 |
| Selenium | 100.0 | 93.61 | 93 | 64-123 | 3 | 20 |
| Silver | 100.0 | 103.2 | 103 | 71-120 | 3 | 20 |
| Thallium | 100.0 | 101.3 | 100 | 62-120 | 4 | 20 |
| Vanadium | 100.0 | 107.6 | 107 | 78-130 | 5 | 20 |
| Zinc | 100.0 | 98.58 | 96 | 64-129 | 1 | 28 |

RPD= Relative Percent Difference



87.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

## Dissolved California Title 26 Metals

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | METHOD |
| Project#: | 16017.01 | Analysis: | EPA 7470A |
| Analyte: | Mercury | Diln Fac: | 1.000 |
| Type: | BLANK | Batch#: | 105016 |
| Lab ID: | QC305790 | Prepared: | 08/19/05 |
| Matrix: | Filtrate | Analyzed: | 08/19/05 |
| Units: | ug/L | | |

| Result | RL |
|---|---|
| ND | 0.20 |

ND= Not Detected
RL= Reporting Limit



85.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

## Dissolved California Title 26 Metals

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | METHOD |
| Project#: | 16017.01 | Analysis: | EPA 7470A |
| Analyte: | Mercury | Batch#: | 105016 |
| Matrix: | Filtrate | Prepared: | 08/19/05 |
| Units: | ug/L | Analyzed: | 08/19/05 |
| Diln Fac: | 1.000 | | |

| Type | Lab ID | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|---|
| BS | QC305791 | 5.000 | 4.890 | 98 | 80-120 | | |
| BSD | QC305792 | 5.000 | 4.710 | 94 | 80-120 | 4 | 20 |

RPD= Relative Percent Difference



88.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

## Dissolved California Title 26 Metals

| | | | |
|---|---|---|---|
| Lab #: | 181341 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | METHOD |
| Project#: | 16017.01 | Analysis: | EPA 7470A |
| Analyte: | Mercury | Batch#: | 105016 |
| Field ID: | MW5.2-081605 | Sampled: | 08/16/05 |
| MSS Lab ID: | 181341-006 | Received: | 08/18/05 |
| Matrix: | Filtrate | Prepared: | 08/19/05 |
| Units: | ug/L | Analyzed: | 08/19/05 |
| Diln Fac: | 1.000 | | |

| Type | Lab ID | MSS Result | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|---|---|
| MS | QC305793 | <0.07957 | 5.000 | 4.820 | 96 | 80-120 | | |
| MSD | QC305794 | | 5.000 | 5.020 | 100 | 80-120 | 4 | 20 |

RPD= Relative Percent Difference



89.0

181341

# Acton - Mickelson • Environmental, Inc.

Chain of Custody and Analysis Request Form

Geotracker Global ID T0604591192

☒ Standard TAT ☐ RUSH TAT ☐ 24 hr. TAT ☐ 48 hr. TAT ☐ 72 hr. TAT ☒ 5 day TAT

Page 1 of 2 | Chain of Custody # 1376

**Send Results to:**
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762
(916) 939-7550, FAX (916) 939-7570
Attn.: Jeff Heglie

- ☐ Preliminary Fax Result
- ☒ Sample Receipt/ Log-In Confirmation
- ☒ Electronic Data Deliverables
- ☒ Geotracker EDF
- ☐ Raw Data Deliverables
- ☐ Call with Verbal Results

Temperature 1 per cooler 5.2 C JLW 8-17-05

| Lab ID (LAB USE ONLY) | Field Point ID | Sample ID | Date Collected | Time Collected | Matrix | Container | Number of Containers | Preservative | Requested Analysis: 8015B TPHg | 8260B VOCs #1 | | | | | | | | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 181341-001 | | MW3.5-081605TB2 | 8/16/05 | 1215 | W | V | 6 | HCL | X | X | | | | | | | | #1 VOCs Low Level |
| -002 | | MW3.3-081605 | 8/16/05 | 1035 | GW | V | 6 | HCL | X | X | | | | | | | | |
| -003 | | MW3.4-081605 | 8/16/05 | 1123 | GW | V | 6 | HCL | X | X | | | | | | | | |
| -004 | | MW3.5-081605 | 8/16/05 | 1215 | GW | V | 6 | HCL | X | X | | | | | | | | |
| -005 | | MW3.6-081605 | 8/16/05 | 1304 | GW | V | 6 | HCL | X | X | | | | | | | | |
| -006 | | MW5.2-081605 | 8/16/05 | 1355 | GW | V | 18 | HCL | X | X | | | | | | | | Run MS/MSD on this sample |
| -007 | | MW DUP2 081605 | 8/16/05 | — | GW | V | 6 | HCL | X | X | | | | | | | | |
| -008 | | MW5.3-081605 | 8/16/05 | 1515 | GW | V | 6 | HCL | X | X | | | | | | | | |
| -009 | | MW5.4-081605 | 8/16/05 | 1555 | GW | V | 6 | HCL | X | X | | | | | | | | |
| -010 | | MW3.7-081705 | 8/17/05 | 0820 | GW | V | 6 | HCL | X | X | | | | | | | | |

| Signature | Date | Time | Signature | Date | Time |
|---|---|---|---|---|---|
| Relinquished by: Thomas Carroll | 8/17/05 | 1430 | Relinquished by: | | |
| Received by: Troy E Wall | 8-18-05 | 1400 | Received by: | | |
| Relinquished by: | | | Relinquished by: | | |
| Received by: | | | Received by: | | |

**Matrix:** W - Water; DW - Drinking Water; SW - Surface Water; GW - Ground Water; WW - Waste Water; RW - Reagent Water; S - Soil; SE - Sediment; SV - Soil Vapor; AA - Ambient Air; WS - Waste (Solid); O - Other
**Container:** GB - Glass Bottle (Amber); V - 40 ml VOA Vial; BT, ST, PT - Brass, Steel, and Plastic Tube; P - Polythethylene; GJ - Glass Jar, SC - Summa Canister; TD - Tedlar
**Preservative:** C - Cold; HS - Sulfuric Acid; HC - Hydrochloric Acid; HN - Nitric Acid; Na - Sodium Hydroxide; O - Other

Project Name and Location: Former Georgia-Pacific Sawmill
Project Number: 16017.01 Receiving Lab: Curtis & Tompkins
Sampled by: Thomas Carroll (Print Name) Thomas Carroll (Signature)

ORIGINAL – Laboratory (Return with Report) YELLOW - Laboratory PINK - Originator

# Acton - Mickelson • Environmental, Inc.

Chain of Custody and Analysis Request Form

Geotracker Global ID 106045911192

☒ Standard TAT ☐ RUSH TAT ☐ 24 hr. TAT ☐ 48 hr. TAT ☐ 72 hr. TAT ☒ 5 day TAT



Chain of Custody No. 1377

**Send Results to:**
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762
(916) 939-7550, FAX (916) 939-7570
Attn.: Jeff Heglie

- [ ] Preliminary Fax Result
- [x] Sample Receipt/ Log-In Confirmation
- [x] Electronic Data Deliverables
- [x] Geotracker EDF
- [ ] Raw Data Deliverables
- [ ] Call with Verbal Results

Temperature 1 per cooler 5.2°C 2 (Nw 8-18-05

| Lab ID (LAB USE ONLY) | Field Point ID | Sample ID | Date Collected | Time Collected | Matrix | Container | Number of Containers | Preservative | 8015B TPHg | 8260B VOCs | | | | | | | | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | *1 | | | | | | | | |
| 181341-011 | | MW3.8-081705 | 8/17/05 | 0905 | w | V | | HCL | X | X | | | | | | | | *1 VOC's Low Level |
| -012 | | MW3.9-081705 | 8/17/05 | 0957 | GW | V | | HCL | X | X | | | | | | | | |
| -013 | | MW5.5-081705 | 8/17/05 | 1050 | GW | V | | HCL | X | X | | | | | | | | |
| -014 | | MW5.6-081705 | 8/17/05 | 1147 | GW | V | | HCL | X | X | | | | | | | | |
| -015 | | MW5.7-081705 | 8/17/05 | 1245 | GW | V | | HCL | X | X | | | | | | | | |
| N/A | TW | ~~MW-08 05~~ | 8/ /05 | | GW | V | | HCL | X | X | | | | | | | | |

| Signature | Date | Time | Signature | Date | Time |
|---|---|---|---|---|---|
| Relinquished by: Thomas Carroll | 8/17/05 | 1430 | Relinquished by: | | |
| Received by: [illegible] | 8-18-05 | 1400 | Received by: | | |
| Relinquished by: | | | Relinquished by: | | |
| Received by: | | | Received by: | | |

**Matrix:** W - Water; DW - Drinking Water; SW - Surface Water; GW - Ground Water; WW - Waste Water; RW - Reagent Water; S - Soil; SE - Sediment; SV - Soil Vapor; AA - Ambient Air; WS - Waste (Solid); O - Other
**Container:** GB - Glass Bottle (Amber); V - 40 ml VOA Vial; BT, ST, PT - Brass, Steel, and Plastic Tube; P - Polyethylene; GJ - Glass Jar, SC - Summa Canister; TD - Tedlar
**Preservative:** C - Cold; HS - Sulfuric Acid; HC - Hydrochloric Acid; HN - Nitric Acid; Na - Sodium Hydroxide; O - Other

Project Name and Location: Former Georgia-Pacific Sawmill
Project Number: 16017.01
Receiving Lab: Curtis + Tompkins
Sampled by: Thomas Carroll (Print Name) Thomas Carroll (Signature)

ORIGINAL – Laboratory (Return with Report) YELLOW - Laboratory PINK - Originator

# Acton Mickelson • Environmental, Inc.

Chain of Custody and Analysis Request Form

Geotracker Global ID T0604591192

☒ Standard TAT ☐ RUSH TAT ☐ 24 hr. TAT ☐ 48 hr. TAT ☐ 72 hr. TAT ☒ 5 day TAT

Page ___ of ___ | Chain of Custody No. 4191

**Send Results to:**
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762
(916) 939-7550, FAX (916) 939-7570
Attn.: Jeff Heglie

- ☐ Preliminary Fax Result
- ☒ Sample Receipt/ Log-In Confirmation
- ☒ Electronic Data Deliverables
- ☒ Geotracker EDF
- ☐ Raw Data Deliverables
- ☐ Call with Verbal Results

| Lab ID (LAB USE ONLY) | Field Point ID | Sample ID | Date Collected | Time Collected | Matrix | Container | Number of Containers | Preservative | Requested Analysis: 8015B TPHd+TPHg | 8270C SVOC's | 8082 PCB Congeners | 8310 PAH | 6020B/7471 Metals | Temperature | Temperature | | | | | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | *1 | | | | *2 | | | | | | | |
| 181341-005 | | MW-3,6-08 16 05 | 8/16/05 | 1304 | GW | GB | 1 | C | X | | | | | | | | | | | *1 Use Silica Gel Cleanup |
| | | MW-3,6-08 16 05 | 8/16/05 | 1304 | GW | GB | 2 | C | | X | | | | | | | | | | *2 Metals, dissolved Field filtered |
| | | MW-3,6-08 16 05 | 8/16/05 | 1304 | GW | GB | 1 | C | | | X | | | | | | | | | |
| | | MW-3,6-08 16 05 | 8/16/05 | 1304 | GW | GB | 1 | C | | | | X | | | | | | | | |
| | | MW-3,6-08 16 05 | 8/16/05 | 1304 | GW | P | 1 | HNO3 | | | | | X | | | | | | | |
| N/A | | Temperature Blank | 8/16/05 | — | W | P | 1 | C | | | | | | X | | | | | | one per cooler |
| | | | | | | | | | | | | | | | | | | | | 2.4°C |
| | | | | | | | | | | | | | | | | | | | | 79W 8-18-05 |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |

| Signature | Date | Time | Signature | Date | Time |
|---|---|---|---|---|---|
| Relinquished by: Thomas Carroll | 8/17/05 | 1430 | Relinquished by: | | |
| Received by: Ingy G. Wind | 8-18-05 | 1400 | Received by: | | |
| Relinquished by: | | | Relinquished by: | | |
| Received by: | | | Received by: | | |

**Matrix:** W - Water; DW - Drinking Water; SW - Surface Water; GW - Ground Water; WW - Waste Water; RW - Reagent Water; S - Soil; SE - Sediment; SV - Soil Vapor; AA - Ambient Air; WS - Waste (Solid); O - Other
**Container:** GB - Glass Bottle (Amber); V - 40 ml VOA Vial; BT, ST, PT - Brass, Steel, and Plastic Tube; P - Polyethylene, GJ - Glass Jar, SC - Summa Canister; TD - Tedlar
**Preservative:** C - Cold; HS - Sulfuric Acid; HC - Hydrochloric Acid; HN - Nitric Acid; Na - Sodium Hydroxide; O - Other

Project Name and Location: Former Georgia-Pacific Sawmill
Project Number: 16017.01 Receiving Lab: Curtis & Tompkins
Sampled by: Thomas Carroll (Print Name) Thomas Carroll (Signature)

ORIGINAL – Laboratory (Return with Report) YELLOW - Laboratory PINK - Originator

# Acton - Mickelson • Environmental, Inc.

Chain of Custody and Analysis Request Form

Geotracker Global ID T0604591192

☒ Standard TAT ☐ RUSH TAT ☐ 24 hr. TAT ☐ 48 hr. TAT ☐ 72 hr. TAT ☒ 5 day TAT

Page ___ of ___ | Chain of Custody No. 4288

**Send Results to:**
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762
(916) 939-7550, FAX (916) 939-7570
Attn.: Jeff Heglie

- ☐ Preliminary Fax Result
- ☒ Sample Receipt/ Log-In Confirmation
- ☒ Electronic Data Deliverables
- ☒ Geotracker EDF
- ☐ Raw Data Deliverables
- ☐ Call with Verbal Results

| Lab ID (LAB USE ONLY) | Field Point ID | Sample ID | Date Collected | Time Collected | Matrix | Container | Number of Containers | Preservative | 8015B TPHd & TPHg | 8270C SVOCs | 8082 PCB Congeners | 8310 PAHs | 6020B/7471 Metals | Temperature | | | | | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | *1 | | | | *2 | | | | | | |
| 181341-006 | | MW-5.2-08 16 05 | 8/16/05 | 1355 | GW | GB | 3 | C | X | | | | | | | | | | *1 Use Silica Gel Cleanup |
| | | MW-5.2-08 16 05 | 8/16/05 | 1355 | GW | GB | 6 | C | | X | | | | | | | | | *2 Metals dissolved Field Filtered |
| | | MW-5.2-08 16 05 | 8/16/05 | 1355 | GW | GB | 3 | C | | | X | | | | | | | | *3 Run MS/MSD on this Sample |
| | | MW-5.2-08 16 05 | 8/16/05 | 1355 | GW | GB | 3 | C | | | | X | | | | | | | |
| | | MW-5.2-08 16 05 | 8/16/05 | 1355 | GW | P | 3 | HNO3 | | | | | X | | | | | | |
| N/A | | Temperature | 8/16/05 | — | W | P | 1 | C | | | | | | X | | | | | 1 per cooler |
| | | | | | | | | | | | | | | | | | | | 4.2°C |
| | | | | | | | | | | | | | | | | | | | JGW 8-18-05 |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |

| Signature | Date | Time | Signature | Date | Time |
|---|---|---|---|---|---|
| Relinquished by: Thomas Carroll | 8/17/05 | 1430 | Relinquished by: | | |
| Received by: Jerry G. Wilmot | 8-18-05 | 1400 | Received by: | | |
| Relinquished by: | | | Relinquished by: | | |
| Received by: | | | Received by: | | |

**Matrix:** W - Water; DW - Drinking Water; SW - Surface Water; GW - Ground Water; WW - Waste Water; RW - Reagent Water; S - Soil; SE - Sediment; SV - Soil Vapor; AA - Ambient Air; WS - Waste (Solid); O - Other
**Container:** GB - Glass Bottle (Amber); V - 40 ml VOA Vial; BT, ST, PT - Brass, Steel, and Plastic Tube; P - Polyethylene; GJ - Glass Jar; SC - Summa Canister; TD - Tedlar
**Preservative:** C - Cold; HS - Sulfuric Acid; HC - Hydrochloric Acid; HN - Nitric Acid; Na - Sodium Hydroxide; O - Other

Project Name and Location: Former Georgia-Pacific Sawmill
Project Number: 16017.01
Receiving Lab: Curtis & Tompkins
Sampled by: Thomas Carroll (Print Name) Thomas Carroll (Signature)

ORIGINAL – Laboratory (Return with Report) YELLOW - Laboratory PINK - Originator

# Acton Mickelson • Environmental, Inc.

Chain of Custody and Analysis Request Form

Geotracker Global ID T0604591192

☒ Standard TAT ☐ RUSH TAT ☐ 24 hr. TAT ☐ 48 hr. TAT ☐ 72 hr. TAT ☒ 5 day TAT

Page ____ of ____ | Chain of Custody No. 4288

**Send Results to:**
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762
(916) 939-7550, FAX (916) 939-7570
Attn.: Jeff Heglie

- ☐ Preliminary Fax Result
- ☒ Sample Receipt/ Log-In Confirmation
- ☒ Electronic Data Deliverables
- ☒ Geotracker EDF
- ☐ Raw Data Deliverables
- ☐ Call with Verbal Results

| Lab ID (LAB USE ONLY) | Field Point ID | Sample ID | Date Collected | Time Collected | Matrix | Container | Number of Containers | Preservative | 8015B TRH & TPH | 8270C SVOCs | 8082 PCB Congeners | 8310 PAHs | 6020B/7471 Metals | Temperature | | | | | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | *1 | | | | *2 | | | | | | |
| 161341-006 | | MW-5.2-08 16 05 | 8/16/05 | 1355 | GW | GB | 3 | C | X | | | | | | | | | | *1 Use Silica Gel Cleanup |
| | | MW-5.2-08 16 05 | 8/16/05 | 1355 | GW | GB | 6 | C | | X | | | | | | | | | *2 Metals, dissolved Field Filtered |
| | | MW-5.2-08 16 05 | 8/16/05 | 1355 | GW | GB | 3 | C | | | X | | | | | | | | *3 Run MS/MSD on this Sample |
| | | MW-5.2-08 16 05 | 8/16/05 | 1355 | GW | GB | 3 | C | | | | X | | | | | | | |
| | | MW-5.2-08 16 05 | 8/16/05 | 1355 | GW | P | 3 | HNO3 | | | | | X | | | | | | |
| N/A | | Temperature | 8/16/05 | — | W | P | 1 | C | | | | | | X | | | | | 1 per cooler |
| | | | | | | | | | | | | | | | | | | | 7.3°C |
| | | | | | | | | | | | | | | | | | | | JHW 8-18-05 |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |

| Signature | Date | Time | Signature | Date | Time |
|---|---|---|---|---|---|
| Relinquished by: Thomas Carroll | 8/17/05 | 1430 | Relinquished by: | | |
| Received by: Jerry E. Wright | 8-18-05 | 1400 | Received by: | | |
| Relinquished by: | | | Relinquished by: | | |
| Received by: | | | Received by: | | |

**Matrix:** W - Water; DW - Drinking Water; SW - Surface Water; GW - Ground Water; WW - Waste Water; RW - Reagent Water; S - Soil; SE - Sediment; SV - Soil Vapor; AA - Ambient Air; WS - Waste (Solid); O - Other
**Container:** GB - Glass Bottle (Amber); V - 40 ml VOA Vial; BT, ST, PT - Brass, Steel, and Plastic Tube; P - Polyethelyene, GJ - Glass Jar, SC - Summa Canister; TD - Tediar
**Preservative:** C - Cold; HS - Sulfuric Acid; HC - Hydrochloric Acid; HN - Nitric Acid; Na - Sodium Hydroxide; O - Other

Project Name and Location: Former Georgia-Pacific Sawmill
Project Number: 16017.01
Receiving Lab: Curtis & Tompkins
Sampled by: Thomas Carroll (Print Name) Thomas Carroll (Signature)

ORIGINAL – Laboratory (Return with Report) YELLOW - Laboratory PINK - Originator

# Acton - Mickelson • Environmental, Inc.

Chain of Custody and Analysis Request Form

Geotracker Global ID T0604591192

☒ Standard TAT ☐ RUSH TAT ☐ 24 hr. TAT ☐ 48 hr. TAT ☐ 72 hr. TAT ☒ 5 day TAT

Page ___ of ___ | Chain of Custody No. 4288

**Send Results to:**
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762
(916) 939-7550, FAX (916) 939-7570
Attn.: Jeff Heglie

- ☐ Preliminary Fax Result
- ☒ Sample Receipt/ Log-In Confirmation
- ☒ Electronic Data Deliverables
- ☒ Geotracker EDF
- ☐ Raw Data Deliverables
- ☐ Call with Verbal Results

| Lab ID (LAB USE ONLY) | Field Point ID | Sample ID | Date Collected | Time Collected | Matrix | Container | Number of Containers | Preservative | Requested Analysis: 8015B TPHd & TPHg | 8270C SVOCs | 8082 PCB Congeners | 8310 PAHs | 6020B/7471 Metals | Temperature | | | | | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | *1 | | | | *2 | | | | | | |
| 181341-006 | | MW-5.2-0816 05 | 8/16/05 | 1355 | GW | GB | 3 | C | X | | | | | | | | | | *1 use Silica Gel Cleanup |
| | | MW-5.2-0816 05 | 8/16/05 | 1355 | GW | GB | 6 | C | | X | | | | | | | | | *2 Metals, dissolved Field Filtered |
| | | MW-5.2-0816 05 | 8/16/05 | 1355 | GW | GB | 3 | C | | | X | | | | | | | | *3 Run MS/MSD on this Sample |
| | | MW-5.2-0816 05 | 8/16/05 | 1355 | GW | GB | 3 | C | | | | X | | | | | | | |
| | | MW-5.2-0816 05 | 8/16/05 | 1355 | GW | P | 3 | HNO3 | | | | | X | | | | | | |
| N/A | | Temperature | 8/16/05 | — | W | P | 1 | C | | | | | | X | | | | | 1 percooler |
| | | | | | | | | | | | | | | | | | | | 5.0°C |
| | | | | | | | | | | | | | | | | | | | JGW 8-18-05 |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |

| Signature | Date | Time | Signature | Date | Time |
|---|---|---|---|---|---|
| Relinquished by: Thomas Carroll | 8/17/05 | 1430 | Relinquished by: | | |
| Received by: Jerry G. Wright | 8-18-05 | 1400 | Received by: | | |
| Relinquished by: | | | Relinquished by: | | |
| Received by: | | | Received by: | | |

**Matrix:** W - Water; DW - Drinking Water; SW - Surface Water; GW - Ground Water; WW - Waste Water; RW - Reagent Water; S - Soil; SE - Sediment; SV - Soil Vapor; AA - Ambient Air; WS - Waste (Solid); O - Other
**Container:** GB - Glass Bottle (Amber); V - 40 ml VOA Vial; BT, ST, PT - Brass, Steel, and Plastic Tube; P - Polyethylene, GJ - Glass Jar, SC - Summa Canister; TD - Tedlar
**Preservative:** C - Cold; HS - Sulfuric Acid; HC - Hydrochloric Acid; HN - Nitric Acid; Na - Sodium Hydroxide; O - Other

Project Name and Location: Former Georgia-Pacific Sawmill
Project Number: 16017.01
Receiving Lab: Curtis & Tompkins
Sampled by: Thomas Carroll (Print Name) Thomas Carroll (Signature)

ORIGINAL - Laboratory (Return with Report) YELLOW - Laboratory PINK - Originator

# Acton - Mickelson • Environmental, Inc.

Chain of Custody and Analysis Request Form

Geotracker Global ID T0604591192

☒ Standard TAT ☐ RUSH TAT ☐ 24 hr. TAT ☐ 48 hr. TAT ☐ 72 hr. TAT ☒ 5 day TAT

Page ___ of ___ | Chain of Custody No. 4159

**Send Results to:**
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762
(916) 939-7550, FAX (916) 939-7570
Attn.: Jeff Heglie

- ☐ Preliminary Fax Result
- ☒ Sample Receipt/ Log-In Confirmation
- ☒ Electronic Data Deliverables
- ☒ Geotracker EDF
- ☐ Raw Data Deliverables
- ☐ Call with Verbal Results

| Lab ID (LAB USE ONLY) | Field Point ID | Sample ID | Date Collected | Time Collected | Matrix | Container | Number of Containers | Preservative | Requested Analysis: 8015B TPHd & TPHg | 8270C SVOCs | 8082 PCB Congeners | 8310 PAH | 6020B/7471 Metals | Temperature | ~~Temperature~~ | | | | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | *1 | | | | *2 | | | | | | |
| 181341-007 | | MW-DUP-2-0816 05 | 8/16/05 | — | GW | GB | 1 | C | X | | | | | | | | | | *1 Use Silica Gel Cleanup |
| | | MW-DUP-2-0816 05 | 8/16/05 | — | GW | GB | 2 | C | | X | | | | | | | | | *2 Metals, dissolved Field Filtered |
| | | MW-DUP-2-0816 05 | 8/16/05 | — | GW | GB | 1 | C | | | X | | | | | | | | |
| | | MW-DUP-2-0816 05 | 8/16/05 | — | GW | GB | 1 | C | | | | X | | | | | | | |
| | | MW-DUP-2-0816 05 | 8/16/05 | — | GW | P | 1 | HNO3 | | | | | X | | | | | | |
| N/A | | Temperature | 8/16/05 | — | W | P | 1 | C | | | | | | X | | | | | one per cooler |
| | | | | | | | | | | | | | | | | | | | 2.5°C |
| | | | | | | | | | | | | | | | | | | | JAN 8-18-05 |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |

| Signature | Date | Time | Signature | Date | Time |
|---|---|---|---|---|---|
| Relinquished by: Thomas Carroll | 8/17/05 | 1430 | Relinquished by: | | |
| Received by: Jody E. Winter | 8-18-05 | 1400 | Received by: | | |
| Relinquished by: | | | Relinquished by: | | |
| Received by: | | | Received by: | | |

**Matrix:** W - Water; DW - Drinking Water; SW - Surface Water; GW - Ground Water; WW - Waste Water; RW - Reagent Water; S - Soil; SE - Sediment; SV - Soil Vapor; AA - Ambient Air; WS - Waste (Solid); O - Other
**Container:** GB - Glass Bottle (Amber); V - 40 ml VOA Vial; BT, ST, PT - Brass, Steel, and Plastic Tube; P - Polythethylene; GJ - Glass Jar, SC - Summa Canister; TD - Tedlar
**Preservative:** C - Cold; HS - Sulfuric Acid; HC - Hydrochloric Acid; HN - Nitric Acid; Na - Sodium Hydroxide; O - Other

Project Name and Location: Former Georgia-Pacific Sawmill
Project Number: 160170J
Receiving Lab: Curtis & Tompkins
Sampled by: Thomas Carroll (Print Name) Thomas Carroll (Signature)

ORIGINAL – Laboratory (Return with Report) YELLOW - Laboratory PINK - Originator

# Acton - Mickelson • Environmental, Inc.

Chain of Custody and Analysis Request Form

Geotracker Global ID T0604591192

☒ Standard TAT ☐ RUSH TAT ☐ 24 hr. TAT ☐ 48 hr. TAT ☐ 72 hr. TAT ☒ 5 day TAT

Page ___ of ___ | Chain of Custody # 4382

**Send Results to:**
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762
(916) 939-7550, FAX (916) 939-7570
Attn.: Jeff Heglie

- ☐ Preliminary Fax Result
- ☒ Sample Receipt/ Log-In Confirmation
- ☒ Electronic Data Deliverables
- ☒ Geotracker EDF
- ☐ Raw Data Deliverables
- ☐ Call with Verbal Results

| Lab ID (LAB USE ONLY) | Field Point ID | Sample ID | Date Collected | Time Collected | Matrix | Container | Number of Containers | Preservative | Requested Analysis: 8015B TPHd+TPHg (*1) | 8270C SVOCs | 8082 PCB Congeners | 8310 PAH | 6020B/7471 Metals (*2) | Temperature | | | | | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 181341-008 | | MW-5.3-08 16 05 | 8/16/05 | 1515 | GW | GB | 1 | C | X | | | | | | | | | | *1 Use Silica Gel Cleanup |
| ↓ | | MW-5.3-08 16 05 | 8/16/05 | 1515 | GW | GB | 2 | C | | X | | | | | | | | | *2 Metals, dissolved Field Filter |
| ↓ | | MW-5.3-08 16 05 | 8/16/05 | 1515 | GW | GB | 1 | C | | | X | | | | | | | | |
| ↓ | | MW-5.3-08 16 05 | 8/16/05 | 1515 | GW | GB | 1 | C | | | | X | | | | | | | |
| ↓ | | MW-5.3-08 16 05 | 8/16/05 | 1515 | GW | P | 1 | HNO3 | | | | | X | | | | | | |
| N/A | | Temperature | 8/16/05 | — | W | P | 1 | C | | | | | | X | | | | | 1 per cooler |
| | | | | | | | | | | | | | | | | | | | 3.4°C |
| | | | | | | | | | | | | | | | | | | | JAW 8-18-05 |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |

| Signature | Date | Time | Signature | Date | Time |
|---|---|---|---|---|---|
| Relinquished by: Thomas Carroll | 8/17/05 | 1430 | Relinquished by: | | |
| Received by: [illegible] | 8-18-05 | 1400 | Received by: | | |
| Relinquished by: | | | Relinquished by: | | |
| Received by: | | | Received by: | | |

**Matrix:** W - Water; DW - Drinking Water; SW - Surface Water; GW - Ground Water; WW - Waste Water; RW - Reagent Water; S - Soil; SE - Sediment; SV - Soil Vapor; AA - Ambient Air; WS - Waste (Solid); O - Other
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**Preservative:** C - Cold; HS - Sulfuric Acid; HC - Hydrochloric Acid; HN - Nitric Acid; Na - Sodium Hydroxide; O - Other

Project Name and Location: Former Georgia-Pacific Sawmill
Project Number: 16017.01
Receiving Lab: Curtis & Tompkins
Sampled by: Thomas Carroll (Print Name) Thomas Carroll (Signature)

ORIGINAL – Laboratory (Return with Report) YELLOW - Laboratory PINK - Originator

# Acton • Mickelson • Environmental, Inc.

Chain of Custody and Analysis Request Form

Geotracker Global ID T0604591192

☒ Standard TAT ☐ RUSH TAT ☐ 24 hr. TAT ☐ 48 hr. TAT ☐ 72 hr. TAT ☒ 5 day TAT

Page of | Chain of Custody No. 4383

**Send Results to:**
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762
(916) 939-7550, FAX (916) 939-7570
Attn.: Jeff Heglie

- ☐ Preliminary Fax Result
- ☒ Sample Receipt/ Log-In Confirmation
- ☒ Electronic Data Deliverables
- ☒ Geotracker EDF
- ☐ Raw Data Deliverables
- ☐ Call with Verbal Results

| Lab ID (LAB USE ONLY) | Field Point ID | Sample ID | Date Collected | Time Collected | Matrix | Container | Number of Containers | Preservative | Requested Analysis: 8015B TPH/d+TVH | 8270C SVOCs | 8082 PCB Congeners | 8310 PAH | 6020B/7471 Metals | Temperature | | | | | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | *1 | | | | *2 | | | | | | |
| 181341-009 | | MW-5,4-08 16 05 | 8/16/05 | 1555 | GW | GB | 1 | C | X | | | | | | | | | | *1 use Silica Gel Cleanup |
| | | MW-5,4-08 16 05 | 8/16/05 | 1555 | GW | GB | 2 | C | | X | | | | | | | | | *2 Metals, dissolved Field Filtered |
| | | MW-5,4-08 16 05 | 8/16/05 | 1555 | GW | GB | 1 | C | | | X | | | | | | | | |
| | | MW-5,4-08 16 05 | 8/16/05 | 1555 | GW | GB | 1 | C | | | | X | | | | | | | |
| | | MW-5,4-08 16 05 | 8/16/05 | 1555 | GW | P | 1 | HNO3 | | | | | X | | | | | | |
| N/A | | Temperature | 8/16/05 | — | W | P | 1 | C | | | | | | X | | | | | 1 per cooler |
| | | | | | | | | | | | | | | | | | | | 6.3°C |
| | | | | | | | | | | | | | | | | | | | JW 8-18-05 |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |

| Signature | Date | Time | Signature | Date | Time |
|---|---|---|---|---|---|
| Relinquished by: Thomas Carroll | 8/17/05 | 1430 | Relinquished by: | | |
| Received by: [illegible] | 8-18-05 | 1400 | Received by: | | |
| Relinquished by: | | | Relinquished by: | | |
| Received by: | | | Received by: | | |

**Matrix:** W - Water; DW - Drinking Water; SW - Surface Water; GW - Ground Water; WW - Waste Water; RW - Reagent Water; S - Soil; SE - Sediment; SV - Soil Vapor; AA - Ambient Air; WS - Waste (Solid); O - Other
**Container:** GB - Glass Bottle (Amber); V - 40 ml VOA Vial; BT, ST, PT - Brass, Steel, and Plastic Tube; P - Polyethylene; GJ - Glass Jar, SC - Summa Canister; TD - Tedlar
**Preservative:** C - Cold; HS - Sulfuric Acid; HC - Hydrochloric Acid; HN - Nitric Acid; Na - Sodium Hydroxide; O - Other

Project Name and Location: Former Georgia-Pacific Sawmill
Project Number: 16017.01
Receiving Lab: Curtis & Tompkins
Sampled by: Thomas Carroll (Print Name) Thomas Carroll (Signature)

ORIGINAL – Laboratory (Return with Report) YELLOW - Laboratory PINK - Originator

# Acton • Mickelson • Environmental, Inc.

Chain of Custody and Analysis Request Form

Geotracker Global ID T0604591192

☒ Standard TAT ☐ RUSH TAT ☐ 24 hr. TAT ☐ 48 hr. TAT ☐ 72 hr. TAT ☒ 5 day TAT

Page of | Chain of Custody # 4279

**Send Results to:**
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762
(916) 939-7550, FAX (916) 939-7570
Attn.: Jeff Heglie

- ☐ Preliminary Fax Result
- ☒ Sample Receipt/ Log-In Confirmation
- ☒ Electronic Data Deliverables
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- ☐ Raw Data Deliverables
- ☐ Call with Verbal Results

| Lab ID (LAB USE ONLY) | Field Point ID | Sample ID | Date Collected | Time Collected | Matrix | Container | Number of Containers | Preservative | Requested Analysis: 8015B TPH-d + TPHG | 8270C SVOC's | 8082 PCB Congeners | 8310 PAH | 6020B/7471 Metals | Temperature | | | | | | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | *1 | | | | *2 | | | | | | | |
| | | MW-37-08 17 05 | 8/17/05 | 0820 | GW | GB | 1 | C | X | | | | | | | | | | | *1 Use Silica Gel Cleanup |
| | | MW-37-08 17 05 | 8/17/05 | 0820 | GW | GB | 2 | C | | X | | | | | | | | | | *2 Metals, dissolved Field Filtered |
| | | MW-37-08 17 05 | 8/17/05 | 0820 | GW | GB | 1 | C | | | X | | | | | | | | | |
| | | MW-37-08 17 05 | 8/17/05 | 0820 | GW | GB | 1 | C | | | | X | | | | | | | | |
| | | MW-37-08 17 05 | 8/17/05 | 0820 | GW | P | 1 | HNO3 | | | | | X | | | | | | | |
| | | Temperature Blank | 8/17/05 | — | W | P | 1 | C | | | | | | X | | | | | | 3.9°C |
| | | | | | | | | | | | | | | | | | | | | HW 8-18-05 |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |

| Signature | Date | Time | Signature | Date | Time |
|---|---|---|---|---|---|
| Relinquished by: Thomas Carroll | 8/17/05 | 1430 | Relinquished by: | | |
| Received by: HW Eckhardt | 8-18-05 | 1400 | Received by: | | |
| Relinquished by: | | | Relinquished by: | | |
| Received by: | | | Received by: | | |

**Matrix:** W - Water; DW - Drinking Water; SW - Surface Water; GW - Ground Water; WW - Waste Water; RW - Reagent Water; S - Soil; SE - Sediment; SV - Soil Vapor; AA - Ambient Air; WS - Waste (Solid); O - Other
**Container:** GB - Glass Bottle (Amber); V - 40 ml VOA Vial; BT, ST, PT - Brass, Steel, and Plastic Tube; P - Polythethylene; GJ - Glass Jar, SC - Summa Canister; TD - Tedlar
**Preservative:** C - Cold; HS - Sulfuric Acid; HC - Hydrochloric Acid; HN - Nitric Acid; Na - Sodium Hydroxide; O - Other

Project Name and Location: Former Georgia-Pacific Sawmill
Project Number: 16017.01 Receiving Lab: Curtis & Tompkins
Sampled by: Thomas Carroll (Print Name) Thomas Carroll (Signature)

ORIGINAL - Laboratory (Return with Report) YELLOW - Laboratory PINK - Originator

# Acton - Mickelson • Environmental, Inc.

Chain of Custody and Analysis Request Form

Geotracker Global ID T0604591192

☒ Standard TAT ☐ RUSH TAT ☐ 24 hr. TAT ☐ 48 hr. TAT ☐ 72 hr. TAT ☒ 5 day TAT

Page of | Chain of Custody # 4280

**Send Results to:**
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762
(916) 939-7550, FAX (916) 939-7570
Attn.: Jeff Heglie

- ☐ Preliminary Fax Result
- ☒ Sample Receipt/ Log-In Confirmation
- ☒ Electronic Data Deliverables
- ☒ Geotracker EDF
- ☐ Raw Data Deliverables
- ☐ Call with Verbal Results

| Lab ID (LAB USE ONLY) | Field Point ID | Sample ID | Date Collected | Time Collected | Matrix | Container | Number of Containers | Preservative | Requested Analysis: 8015B TPHd + TPHg | 8270C SVOC's | 8082 PCB Congeners | 8310 PAH | 6020B/7471 Metals | Temperature | | | | | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | *1 | | | | *2 | | | | | | |
| 181341-011 | | MW-3.8-08 17 05 | 8/17/05 | 0905 | GW | GB | 1 | C | X | | | | | | | | | | *1 use Silica Gel Cleanup |
| | | MW-3.8-08 17 05 | 8/17/05 | 0905 | GW | GB | 2 | C | | X | | | | | | | | | *2 Metals, dissolved Field Filtered |
| | | MW-3.8-08 17 05 | 8/17/05 | 0905 | GW | GB | 1 | C | | | X | | | | | | | | |
| | | MW-3.8-08 17 05 | 8/17/05 | 0905 | GW | GB | 1 | C | | | | X | | | | | | | |
| | | MW-3.8-08 17 05 | 8/17/05 | 0905 | GW | P | 1 | $HNO_3$ | | | | | X | | | | | | |
| N/A | | Temperature | 8/17/05 | — | W | P | 1 | C | | | | | | X | | | | | 3.3°C |
| | | | | | | | | | | | | | | | | | | | JWW 8-18-05 |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |

| Signature | Date | Time | Signature | Date | Time |
|---|---|---|---|---|---|
| Relinquished by: Thomas Carroll | 8/17/05 | 1430 | Relinquished by: | | |
| Received by: [signature] | 8-18-05 | 1400 | Received by: | | |
| Relinquished by: | | | Relinquished by: | | |
| Received by: | | | Received by: | | |

**Matrix:** W - Water; DW - Drinking Water; SW - Surface Water; GW - Ground Water; WW - Waste Water; RW - Reagent Water; S - Soil; SE - Sediment; SV - Soil Vapor; AA - Ambient Air; WS - Waste (Solid); O - Other
**Container:** GB - Glass Bottle (Amber); V - 40 ml VOA Vial; BT, ST, PT - Brass, Steel, and Plastic Tube; P - Polyethelyene; GJ - Glass Jar, SC - Summa Canister; TD - Tedlar
**Preservative:** C - Cold; HS - Sulfuric Acid; HC - Hydrochloric Acid; HN - Nitric Acid; Na - Sodium Hydroxide; O - Other

Project Name and Location: Former Georgia-Pacific Sawmill
Project Number: 16017.01 Receiving Lab: Curtis & Tompkins
Sampled by: Thomas Carroll (Print Name) Thomas Carroll (Signature)

ORIGINAL – Laboratory (Return with Report) YELLOW - Laboratory PINK - Originator

# Acton - Mickelson • Environmental, Inc.

Chain of Custody and Analysis Request Form

Geotracker Global ID T0604591192

| Page | of | Chain of Custody # | 4282 |
|---|---|---|---|

☒ Standard TAT ☐ RUSH TAT ☐ 24 hr. TAT ☐ 48 hr. TAT ☐ 72 hr. TAT ☒ 5 day TAT

**Send Results to:**
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762
(916) 939-7550, FAX (916) 939-7570
Attn.: Jeff Heglie

- ☐ Preliminary Fax Result
- ☒ Sample Receipt/ Log-In Confirmation
- ☒ Electronic Data Deliverables
- ☒ Geotracker EDF
- ☐ Raw Data Deliverables
- ☐ Call with Verbal Results

| Lab ID (LAB USE ONLY) | Field Point ID | Sample ID | Date Collected | Time Collected | Matrix | Container | Number of Containers | Preservative | Requested Analysis: 8015B TPHd & TPHg | 8270C SVOCs | 8082 PCB Congeners | 8310 PAH | 6020B/7471 Metals | Temperature | | | | | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | *1 | | | | *2 | | | | | | |
| 181341-012 | | MW-3.9-08 17 05 | 8/17/05 | 0957 | GW | GB | 1 | C | X | | | | | | | | | | *1 use silica Gel cleanup |
| | | MW-3.9-08 17 05 | 8/17/05 | 0957 | GW | GB | 2 | C | | X | | | | | | | | | *2 Metals, dissolved Field Filtered |
| | | MW-3.9-08 17 05 | 8/17/05 | 0957 | GW | GB | 1 | C | | | X | | | | | | | | |
| | | MW-3.9-08 17 05 | 8/17/05 | 0957 | GW | GB | 1 | C | | | | X | | | | | | | |
| | | MW-3.9-08 17 05 | 8/17/05 | 0957 | GW | P | 1 | HNO3 | | | | | X | | | | | | |
| N/A | | Temperature | 8/17/05 | — | W | P | 1 | C | | | | | | X | | | | | one per cooler |
| | | | | | | | | | | | | | | | | | | | 2.0°C |
| | | | | | | | | | | | | | | | | | | | JAV 8-18- |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |

| Signature | Date | Time | Signature | Date | Time |
|---|---|---|---|---|---|
| Relinquished by: Thomas Carroll | 8/17/05 | 1430 | Relinquished by: | | |
| Received by: Troy E. Smith | 8-18-05 | 1400 | Received by: | | |
| Relinquished by: | | | Relinquished by: | | |
| Received by: | | | Received by: | | |

**Matrix:** W - Water; DW - Drinking Water; SW - Surface Water; GW - Ground Water; WW - Waste Water; RW - Reagent Water; S - Soil; SE - Sediment; SV - Soil Vapor; AA - Ambient Air; WS - Waste (Solid); O - Other
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**Preservative:** C - Cold; HS - Sulfuric Acid; HC - Hydrochloric Acid; HN - Nitric Acid; Na - Sodium Hydroxide; O - Other

Project Name and Location: Former Georgia-Pacific Sawmill
Project Number: 16017.01 Receiving Lab: Curtis & Tompkins
Sampled by: Thomas Carroll (Print Name) Thomas Carroll (Signature)

ORIGINAL – Laboratory (Return with Report) YELLOW - Laboratory PINK - Originator

# Acton - Mickelson • Environmental, Inc.

Chain of Custody and Analysis Request Form

Geotracker Global ID T0604591192

☒ Standard TAT ☐ RUSH TAT ☐ 24 hr. TAT ☐ 48 hr. TAT ☐ 72 hr. TAT ☒ 5 day TAT

Page of | Chain of Custody # 4384

**Send Results to:**
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762
(916) 939-7550, FAX (916) 939-7570
Attn.: Jeff Heglie

- ☐ Preliminary Fax Result
- ☒ Sample Receipt/ Log-In Confirmation
- ☒ Electronic Data Deliverables
- ☒ Geotracker EDF
- ☐ Raw Data Deliverables
- ☐ Call with Verbal Results

| Lab ID (LAB USE ONLY) | Field Point ID | Sample ID | Date Collected | Time Collected | Matrix | Container | Number of Containers | Preservative | Requested Analysis: 8015B TPHd & TPHg | 8270C SVOCs | 8082 PCB Congeners | 8310 PAH | 6020B/7471 Metals | Temperature | | | | | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | #1 | | | | #2 | | | | | | |
| 181341-013 | | MW-5.5-08 17 05 | 8/17/05 | 1050 | GW | GB | 1 | C | X | | | | | | | | | | #1 use Silica Gel Cleanup |
| | | MW-5.5-08 17 05 | 8/17/05 | 1050 | GW | GB | 2 | C | | X | | | | | | | | | #2 Metals, dissolved Field Filtered |
| | | MW-5.5-08 17 05 | 8/17/05 | 1050 | GW | GB | 1 | C | | | X | | | | | | | | |
| | | MW-5.5-08 17 05 | 8/17/05 | 1050 | GW | GB | 1 | C | | | | X | | | | | | | |
| | | MW-5.5-08 17 05 | 8/17/05 | 1050 | GW | P | 1 | HNO3 | | | | | X | | | | | | |
| N/A | | Temperature | 8/17/05 | — | W | P | 1 | C | | | | | | X | | | | | 2.6°C |
| | | | | | | | | | | | | | | | | | | | JGW 8-18-05 |
| | | | | | | | | | | | | | | | | | | | |
| | | One of the 1L ambers arrived broken | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | JGW 8-18-05 | | | | | | | | |

| Signature | Date | Time | Signature | Date | Time |
|---|---|---|---|---|---|
| Relinquished by: Thomas Carroll | 8/17/05 | 1430 | Relinquished by: | | |
| Received by: Jacy Edwards | 8-18-05 | 1400 | Received by: | | |
| Relinquished by: | | | Relinquished by: | | |
| Received by: | | | Received by: | | |

**Matrix:** W - Water; DW - Drinking Water; SW - Surface Water; GW - Ground Water; WW - Waste Water; RW - Reagent Water; S - Soil; SE - Sediment; SV - Soil Vapor; AA - Ambient Air; WS - Waste (Solid); O - Other
**Container:** GB - Glass Bottle (Amber); V - 40 ml VOA Vial; BT, ST, PT - Brass, Steel, and Plastic Tube; P - Polyethylene; GJ - Glass Jar; SC - Summa Canister; TD - Tedlar
**Preservative:** C - Cold; HS - Sulfuric Acid; HC - Hydrochloric Acid; HN - Nitric Acid; Na - Sodium Hydroxide; O - Other

Project Name and Location: Former Georgia-Pacific Sawmill
Project Number: 16017.01
Receiving Lab: Curtis & Tompkins
Sampled by: Thomas Carroll (Print Name) Thomas Carroll (Signature)

ORIGINAL – Laboratory (Return with Report) YELLOW - Laboratory PINK - Originator

# Acton - Mickelson • Environmental, Inc.

Chain of Custody and Analysis Request Form

Geotracker Global ID T0604591192

☒ Standard TAT ☐ RUSH TAT ☐ 24 hr. TAT ☐ 48 hr. TAT ☐ 72 hr. TAT ☒ 5 day TAT

Page ____ of ____ | Chain of Custody № 4389

**Send Results to:**
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762
(916) 939-7550, FAX (916) 939-7570
Attn.: Jeff Heglie

- ☐ Preliminary Fax Result
- ☒ Sample Receipt/ Log-In Confirmation
- ☒ Electronic Data Deliverables
- ☒ Geotracker EDF
- ☐ Raw Data Deliverables
- ☐ Call with Verbal Results

| Lab ID (LAB USE ONLY) | Field Point ID | Sample ID | Date Collected | Time Collected | Matrix | Container | Number of Containers | Preservative | Requested Analysis: 8015B TPH-d+TPH-o | 8270C SVOCs | 8082 PCB Congeners | 8310 PAH | 6020B/7471 Metals | Temperature | *1 | *2 | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 181341-014 | | MW-5.6-08 17 05 | 8/17/05 | 1147 | GW | GB | 1 | C | X | | | | | | | | *1. Use Silica Gel Cleanup |
| | | MW-5.6-08 17 05 | 8/17/05 | 1147 | GW | GB | 2 | C | | X | | | | | | | *2. Metals, dissolved Field Filtered |
| | | MW-5.6-08 17 05 | 8/17/05 | 1147 | GW | GB | 1 | C | | | X | | | | | | |
| | | MW-5.6-08 17 05 | 8/17/05 | 1147 | GW | GB | 1 | C | | | | X | | | | | |
| | | MW-5.6-08 17 05 | 8/17/05 | 1147 | GW | P | 1 | HNO3 | | | | | X | | | | |
| N/A | | Temperature | 8/17/05 | — | W | P | 1 | C | | | | | | X | | | 1 per cooler |
| | | | | | | | | | | | | | | | | | 7.2°C |
| | | | | | | | | | | | | | | | | | JGW 8-18-05 |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |

| Signature | Date | Time | Signature | Date | Time |
|---|---|---|---|---|---|
| Relinquished by: Thomas Carroll | 8/17/05 | 1430 | Relinquished by: | | |
| Received by: Jeff Heglie | 8-18-05 | 1400 | Received by: | | |
| Relinquished by: | | | Relinquished by: | | |
| Received by: | | | Received by: | | |

**Matrix:** W - Water; DW - Drinking Water; SW - Surface Water; GW - Ground Water; WW - Waste Water; RW - Reagent Water; S - Soil; SE - Sediment; SV - Soil Vapor; AA - Ambient Air; WS - Waste (Solid); O - Other
**Container:** GB - Glass Bottle (Amber); V - 40 ml VOA Vial; BT, ST, PT - Brass, Steel, and Plastic Tube; P - Polyethylene; GJ - Glass Jar, SC - Summa Canister; TD - Tedlar
**Preservative:** C - Cold; HS - Sulfuric Acid; HC - Hydrochloric Acid; HN - Nitric Acid; Na - Sodium Hydroxide; O - Other

Project Name and Location: Former Georgia-Pacific Sawmill
Project Number: 16017.01
Receiving Lab: Curtis & Tompkins
Sampled by: Thomas Carroll (Print Name) Thomas Carroll (Signature)

ORIGINAL – Laboratory (Return with Report) YELLOW - Laboratory PINK - Originator

# Acton Mickelson • Environmental, Inc.

Chain of Custody and Analysis Request Form

Geotracker Global ID T0604591192

☒ Standard TAT ☐ RUSH TAT ☐ 24 hr. TAT ☐ 48 hr. TAT ☐ 72 hr. TAT ☒ 5 day TAT

Page of | Chain of Custody # 4390

**Send Results to:**
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762
(916) 939-7550, FAX (916) 939-7570
Attn.: Jeff Heglie

- ☐ Preliminary Fax Result
- ☒ Sample Receipt/ Log-In Confirmation
- ☒ Electronic Data Deliverables
- ☒ Geotracker EDF
- ☐ Raw Data Deliverables
- ☐ Call with Verbal Results

| Lab ID (LAB USE ONLY) | Field Point ID | Sample ID | Date Collected | Time Collected | Matrix | Container | Number of Containers | Preservative | Requested Analysis: 8015B TPH-d+TPH-o | 8270C SVOCs | 8082 PCB Congeners | 8310 PAH | 6020B/7471 Metals | Temperature | | | | | | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | #1 | | | | #2 | | | | | | | |
| 181341-015 | | MW-5.7-08 17 05 | 8/17/05 | 1245 | GW | GB | 1 | C | X | | | | | | | | | | | #1 Use Silica Gel Cleanup |
| | | MW-5.7-08 17 05 | 8/17/05 | 1245 | GW | GB | 2 | C | | X | | | | | | | | | | #2 Metals, dissolved Field Filtered |
| | | MW-5.7-08 17 05 | 8/17/05 | 1245 | GW | GB | 1 | C | | | X | | | | | | | | | |
| | | MW-5.7-08 17 05 | 8/17/05 | 1245 | GW | GB | 1 | C | | | | X | | | | | | | | |
| | | MW-5.7-08 17 05 | 8/17/05 | 1245 | GW | P | 1 | HNO3 | | | | | X | | | | | | | |
| N/A | | Temperature | 8/17/05 | — | W | P | 1 | C | | | | | | X | | | | | | 3.3°C |
| | | | | | | | | | | | | | | | | | | | | JGW 8-18-05 |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |

| Signature | Date | Time | Signature | Date | Time |
|---|---|---|---|---|---|
| Relinquished by: Thomas Carroll | 8/17/05 | 1430 | Relinquished by: | | |
| Received by: JND EMW MC | 8-18-05 | 1400 | Received by: | | |
| Relinquished by: | | | Relinquished by: | | |
| Received by: | | | Received by: | | |

**Matrix:** W - Water; DW - Drinking Water; SW - Surface Water; GW - Ground Water; WW - Waste Water; RW - Reagent Water; S - Soil; SE - Sediment; SV - Soil Vapor; AA - Ambient Air; WS - Waste (Solid); O - Other
**Container:** GB - Glass Bottle (Amber); V - 40 ml VOA Vial; BT, ST, PT - Brass, Steel, and Plastic Tube; P - Polyethylene; GJ - Glass Jar, SC - Summa Canister; TD - Tedlar
**Preservative:** C - Cold; HS - Sulfuric Acid; HC - Hydrochloric Acid; HN - Nitric Acid; Na - Sodium Hydroxide; O - Other

Project Name and Location: Former Georgia-Pacific Sawmill
Project Number: 16017.01
Receiving Lab: Curtis + Tompkins
Sampled by: Thomas Carroll (Print Name) Thomas Carroll (Signature)

ORIGINAL – Laboratory (Return with Report) YELLOW - Laboratory PINK - Originator

16017.01/8

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Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

# A N A L Y T I C A L  R E P O R T

Prepared for:

Acton Mickelson Environmental
5175 Hillsdale Cir
El Dorado Hills, CA 95762

RECEIVED
SEP 27 2005
By

Date: 12-SEP-05
Lab Job Number: 181361
Project ID: 16017.01
Location: Former GA-Pacific Sawmill

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Reviewed by: _____
Project Manager

Reviewed by: _____
Operations Manager

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Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# CASE NARRATIVE

| | |
|---|---|
| Laboratory number: | **181361** |
| Client: | **Acton Mickelson Environmental** |
| Project: | **16017.01** |
| Location: | **Former GA-Pacific Sawmill** |
| Request Date: | **08/19/05** |
| Samples Received: | **08/19/05** |

This hardcopy data package contains sample and QC results for nine water samples, requested for the above referenced project on 08/19/05. The samples were received cold and intact.

**TPH-Purgeables and/or BTXE by GC (EPA 8015B):**
No analytical problems were encountered.

**TPH-Extractables by GC (EPA 8015B):**
Diesel C10-C24 was detected between the MDL and the RL in the method blank for batch 105027; this analyte was not detected in samples at or above the RL. No other analytical problems were encountered.

**Volatile Organics by GC/MS (EPA 8260B):**
Naphthalene, 1,2,4-trichlorobenzene, and chloroform were detected between the MDL and the RL in the method blank for batch 105118; these analytes were not detected in samples at or above the RL. No other analytical problems were encountered.

**Semivolatile Organics by GC/MS (EPA 8270C):**
Response exceeding the instrument's linear range was observed for 2,4,6-tribromophenol in MW-4.4-081705 (lab # 181361-004); affected data was qualified with "b". Low surrogate recovery was observed for phenol-d5 in MW-4.4-081705 (lab # 181361-004), due to matrix interference; the low surrogate recovery was confirmed by re-analysis. High surrogate recoveries were observed for 2,4,6-tribromophenol and 2-fluorobiphenyl, due to matrix interference; these high surrogate recoveries were confirmed by re-analysis, and no target analytes were detected at or above RL in the sample. No other analytical problems were encountered.

**Polychlorinated Biphenyl Congeners (EPA 8082):**
No analytical problems were encountered.

**Polynuclear Aromatics by HPLC (EPA 8310):**
No analytical problems were encountered.

**Metals (EPA 6020 and EPA 7470A):**
Low recovery was observed for zinc in the MS of MW2.1-081505 (lab # 181301-002); the BS/BSD were within limits, and the associated RPD was within limits. Metals reprocessed 23-Sept-05 for lowest possible reporting limits. No other analytical problems were encountered.



#
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# Total Volatile Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8015B |
| Matrix: | Water | Batch#: | 104981 |
| Units: | ug/L | Received: | 08/19/05 |
| Diln Fac: | 1.000 | | |

| | | | |
|---|---|---|---|
| Field ID: | MW-4.1-081805 | Sampled: | 08/18/05 |
| Type: | SAMPLE | Analyzed: | 08/19/05 |
| Lab ID: | 181361-001 | | |

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | ND | 50 |

| Surrogate | %REC | Limits |
|---|---|---|
| Trifluorotoluene (FID) | 105 | 63-141 |
| Bromofluorobenzene (FID) | 124 | 79-139 |

| | | | |
|---|---|---|---|
| Field ID: | MW-4.2-081805 | Sampled: | 08/18/05 |
| Type: | SAMPLE | Analyzed: | 08/19/05 |
| Lab ID: | 181361-002 | | |

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | ND | 50 |

| Surrogate | %REC | Limits |
|---|---|---|
| Trifluorotoluene (FID) | 105 | 63-141 |
| Bromofluorobenzene (FID) | 121 | 79-139 |

| | | | |
|---|---|---|---|
| Field ID: | MW-4.3-081705 | Sampled: | 08/17/05 |
| Type: | SAMPLE | Analyzed: | 08/19/05 |
| Lab ID: | 181361-003 | | |

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | ND | 50 |

| Surrogate | %REC | Limits |
|---|---|---|
| Trifluorotoluene (FID) | 103 | 63-141 |
| Bromofluorobenzene (FID) | 123 | 79-139 |

| | | | |
|---|---|---|---|
| Field ID: | MW-4.4-081705 | Sampled: | 08/17/05 |
| Type: | SAMPLE | Analyzed: | 08/19/05 |
| Lab ID: | 181361-004 | | |

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | ND | 50 |

| Surrogate | %REC | Limits |
|---|---|---|
| Trifluorotoluene (FID) | 104 | 63-141 |
| Bromofluorobenzene (FID) | 125 | 79-139 |

ND= Not Detected
RL= Reporting Limit



2.0

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# Total Volatile Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8015B |
| Matrix: | Water | Batch#: | 104981 |
| Units: | ug/L | Received: | 08/19/05 |
| Diln Fac: | 1.000 | | |

| | | | |
|---|---|---|---|
| Field ID: | MW-5.8-081705 | Sampled: | 08/17/05 |
| Type: | SAMPLE | Analyzed: | 08/19/05 |
| Lab ID: | 181361-005 | | |

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | ND | 50 |

| Surrogate | %REC | Limits |
|---|---|---|
| Trifluorotoluene (FID) | 102 | 63-141 |
| Bromofluorobenzene (FID) | 117 | 79-139 |

| | | | |
|---|---|---|---|
| Field ID: | MW-5.9-081805 | Sampled: | 08/18/05 |
| Type: | SAMPLE | Analyzed: | 08/20/05 |
| Lab ID: | 181361-006 | | |

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | ND | 50 |

| Surrogate | %REC | Limits |
|---|---|---|
| Trifluorotoluene (FID) | 107 | 63-141 |
| Bromofluorobenzene (FID) | 120 | 79-139 |

| | | | |
|---|---|---|---|
| Field ID: | MW-7.1-081805 | Sampled: | 08/18/05 |
| Type: | SAMPLE | Analyzed: | 08/20/05 |
| Lab ID: | 181361-007 | | |

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | ND | 50 |

| Surrogate | %REC | Limits |
|---|---|---|
| Trifluorotoluene (FID) | 106 | 63-141 |
| Bromofluorobenzene (FID) | 122 | 79-139 |

| | | | |
|---|---|---|---|
| Field ID: | MW-10.4-081805 | Sampled: | 08/18/05 |
| Type: | SAMPLE | Analyzed: | 08/20/05 |
| Lab ID: | 181361-008 | | |

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | ND | 50 |

| Surrogate | %REC | Limits |
|---|---|---|
| Trifluorotoluene (FID) | 98 | 63-141 |
| Bromofluorobenzene (FID) | 117 | 79-139 |

ND= Not Detected
RL= Reporting Limit



2.0

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# Total Volatile Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8015B |
| Matrix: | Water | Batch#: | 104981 |
| Units: | ug/L | Received: | 08/19/05 |
| Diln Fac: | 1.000 | | |

| | | | |
|---|---|---|---|
| Field ID: | MW-5.9-081805TB3 | Sampled: | 08/18/05 |
| Type: | SAMPLE | Analyzed: | 08/20/05 |
| Lab ID: | 181361-009 | | |

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | ND | 50 |

| Surrogate | %REC | Limits |
|---|---|---|
| Trifluorotoluene (FID) | 104 | 63-141 |
| Bromofluorobenzene (FID) | 124 | 79-139 |

| | | | |
|---|---|---|---|
| Type: | BLANK | Analyzed: | 08/19/05 |
| Lab ID: | QC305657 | | |

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | ND | 50 |

| Surrogate | %REC | Limits |
|---|---|---|
| Trifluorotoluene (FID) | 100 | 63-141 |
| Bromofluorobenzene (FID) | 112 | 79-139 |

ND= Not Detected
RL= Reporting Limit



2.0

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Analytical Laboratories, Since 1878

Batch QC Report

## Total Volatile Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8015B |
| Type: | LCS | Diln Fac: | 1.000 |
| Lab ID: | QC305659 | Batch#: | 104981 |
| Matrix: | Water | Analyzed: | 08/19/05 |
| Units: | ug/L | | |

| Analyte | Spiked | Result | %REC | Limits |
|---|---|---|---|---|
| Gasoline C7-C12 | 2,000 | 1,980 | 99 | 80-120 |

| Surrogate | %REC | Limits |
|---|---|---|
| Trifluorotoluene (FID) | 137 | 63-141 |
| Bromofluorobenzene (FID) | 121 | 79-139 |



3.0

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Batch QC Report

## Total Volatile Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8015B |
| Field ID: | MW-4.1-081805 | Batch#: | 104981 |
| MSS Lab ID: | 181361-001 | Sampled: | 08/18/05 |
| Matrix: | Water | Received: | 08/19/05 |
| Units: | ug/L | Analyzed: | 08/19/05 |
| Diln Fac: | 1.000 | | |

Type: MS Lab ID: QC305771

| Analyte | MSS Result | Spiked | Result | %REC | Limits |
|---|---|---|---|---|---|
| Gasoline C7-C12 | 12.71 | 2,000 | 1,970 | 98 | 80-120 |

| Surrogate | %REC | Limits |
|---|---|---|
| Trifluorotoluene (FID) | 141 | 63-141 |
| Bromofluorobenzene (FID) | 129 | 79-139 |

Type: MSD Lab ID: QC305772

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|
| Gasoline C7-C12 | 2,000 | 1,972 | 98 | 80-120 | 0 | 20 |

| Surrogate | %REC | Limits |
|---|---|---|
| Trifluorotoluene (FID) | 141 | 63-141 |
| Bromofluorobenzene (FID) | 138 | 79-139 |

RPD= Relative Percent Difference



4.0

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# Total Extractable Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Analysis: | EPA 8015B |
| Project#: | 16017.01 | | |
| Matrix: | Water | Diln Fac: | 1.000 |
| Units: | ug/L | Received: | 08/19/05 |

| | | | |
|---|---|---|---|
| Field ID: | MW-4.1-081805 | Prepared: | 08/21/05 |
| Type: | SAMPLE | Analyzed: | 08/24/05 |
| Lab ID: | 181361-001 | Prep: | EPA 3520C |
| Batch#: | 105027 | Cleanup Method: | EPA 3630C |
| Sampled: | 08/18/05 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Diesel C10-C24 | ND | 50 | 19 |
| Motor Oil C24-C36 | ND | 300 | 76 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 95 | 55-143 |

| | | | |
|---|---|---|---|
| Field ID: | MW-4.2-081805 | Prepared: | 08/21/05 |
| Type: | SAMPLE | Analyzed: | 08/24/05 |
| Lab ID: | 181361-002 | Prep: | EPA 3520C |
| Batch#: | 105027 | Cleanup Method: | EPA 3630C |
| Sampled: | 08/18/05 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Diesel C10-C24 | ND | 50 | 19 |
| Motor Oil C24-C36 | ND | 300 | 76 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 95 | 55-143 |

| | | | |
|---|---|---|---|
| Field ID: | MW-4.3-081705 | Prepared: | 08/21/05 |
| Type: | SAMPLE | Analyzed: | 08/24/05 |
| Lab ID: | 181361-003 | Prep: | EPA 3520C |
| Batch#: | 105027 | Cleanup Method: | EPA 3630C |
| Sampled: | 08/17/05 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Diesel C10-C24 | ND | 50 | 19 |
| Motor Oil C24-C36 | ND | 300 | 76 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 93 | 55-143 |

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



16.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Total Extractable Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Analysis: | EPA 8015B |
| Project#: | 16017.01 | | |
| Matrix: | Water | Diln Fac: | 1.000 |
| Units: | ug/L | Received: | 08/19/05 |

| | | | |
|---|---|---|---|
| Field ID: | MW-4.4-081705 | Prepared: | 08/21/05 |
| Type: | SAMPLE | Analyzed: | 08/24/05 |
| Lab ID: | 181361-004 | Prep: | EPA 3520C |
| Batch#: | 105027 | Cleanup Method: | EPA 3630C |
| Sampled: | 08/17/05 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Diesel C10-C24 | ND | 50 | 19 |
| Motor Oil C24-C36 | ND | 300 | 76 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 97 | 55-143 |

| | | | |
|---|---|---|---|
| Field ID: | MW-5.8-081705 | Prepared: | 08/21/05 |
| Type: | SAMPLE | Analyzed: | 08/24/05 |
| Lab ID: | 181361-005 | Prep: | EPA 3520C |
| Batch#: | 105027 | Cleanup Method: | EPA 3630C |
| Sampled: | 08/17/05 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Diesel C10-C24 | ND | 50 | 19 |
| Motor Oil C24-C36 | ND | 300 | 76 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 98 | 55-143 |

| | | | |
|---|---|---|---|
| Field ID: | MW-5.9-081805 | Prepared: | 08/21/05 |
| Type: | SAMPLE | Analyzed: | 08/24/05 |
| Lab ID: | 181361-006 | Prep: | EPA 3520C |
| Batch#: | 105027 | Cleanup Method: | EPA 3630C |
| Sampled: | 08/18/05 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Diesel C10-C24 | ND | 50 | 19 |
| Motor Oil C24-C36 | ND | 300 | 76 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 92 | 55-143 |

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



16.0

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# Total Extractable Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Analysis: | EPA 8015B |
| Project#: | 16017.01 | | |
| Matrix: | Water | Diln Fac: | 1.000 |
| Units: | ug/L | Received: | 08/19/05 |

| | | | |
|---|---|---|---|
| Field ID: | MW-7.1-081805 | Prepared: | 08/21/05 |
| Type: | SAMPLE | Analyzed: | 08/24/05 |
| Lab ID: | 181361-007 | Prep: | EPA 3520C |
| Batch#: | 105027 | Cleanup Method: | EPA 3630C |
| Sampled: | 08/18/05 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Diesel C10-C24 | ND | 50 | 19 |
| Motor Oil C24-C36 | ND | 300 | 76 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 97 | 55-143 |

| | | | |
|---|---|---|---|
| Field ID: | MW-10.4-081805 | Prepared: | 08/22/05 |
| Type: | SAMPLE | Analyzed: | 08/23/05 |
| Lab ID: | 181361-008 | Prep: | EPA 3510C |
| Batch#: | 105058 | Cleanup Method: | EPA 3630C |
| Sampled: | 08/18/05 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Diesel C10-C24 | ND | 50 | 34 |
| Motor Oil C24-C36 | ND | 300 | 55 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 92 | 55-143 |

| | | | |
|---|---|---|---|
| Type: | BLANK | Analyzed: | 08/24/05 |
| Lab ID: | QC305831 | Prep: | EPA 3520C |
| Batch#: | 105027 | Cleanup Method: | EPA 3630C |
| Prepared: | 08/21/05 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Diesel C10-C24 | 29 J | 50 | 13 |
| Motor Oil C24-C36 | ND | 300 | 33 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 104 | 55-143 |

| | | | |
|---|---|---|---|
| Type: | BLANK | Analyzed: | 08/23/05 |
| Lab ID: | QC305967 | Prep: | EPA 3510C |
| Batch#: | 105058 | Cleanup Method: | EPA 3630C |
| Prepared: | 08/22/05 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Diesel C10-C24 | ND | 50 | 34 |
| Motor Oil C24-C36 | ND | 300 | 55 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 83 | 55-143 |

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



16.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

## Total Extractable Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8015B |
| Type: | LCS | Diln Fac: | 1.000 |
| Lab ID: | QC305832 | Batch#: | 105027 |
| Matrix: | Water | Prepared: | 08/21/05 |
| Units: | ug/L | Analyzed: | 08/24/05 |

Cleanup Method: EPA 3630C

| Analyte | Spiked | Result | %REC | Limits |
|---|---|---|---|---|
| Diesel C10-C24 | 2,500 | 1,946 | 78 | 50-133 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 90 | 55-143 |



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Curtis & Tompkins, Ltd.
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Batch QC Report

## Total Extractable Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8015B |
| Field ID: | MW5.2-081605 | Batch#: | 105027 |
| MSS Lab ID: | 181341-006 | Sampled: | 08/16/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Prepared: | 08/21/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/24/05 |

Type: MS
Lab ID: QC305833
Cleanup Method: EPA 3630C

| Analyte | MSS Result | Spiked | Result | %REC | Limits |
|---|---|---|---|---|---|
| Diesel C10-C24 | <12.82 | 2,500 | 1,781 | 71 | 42-127 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 83 | 55-143 |

Type: MSD
Lab ID: QC305834
Cleanup Method: EPA 3630C

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|
| Diesel C10-C24 | 2,500 | 1,817 | 73 | 42-127 | 2 | 45 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 83 | 55-143 |

RPD= Relative Percent Difference



18.0

Curtis & Tompkins, Ltd.
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Batch QC Report

## Total Extractable Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3510C |
| Project#: | 16017.01 | Analysis: | EPA 8015B |
| Matrix: | Water | Batch#: | 105058 |
| Units: | ug/L | Prepared: | 08/22/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/23/05 |

Type: BS
Lab ID: QC305968
Cleanup Method: EPA 3630C

| Analyte | Spiked | Result | %REC | Limits |
|---|---|---|---|---|
| Diesel C10-C24 | 2,500 | 1,898 | 76 | 50-133 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 75 | 55-143 |

Type: BSD
Lab ID: QC305969
Cleanup Method: EPA 3630C

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|
| Diesel C10-C24 | 2,500 | 2,509 | 100 | 50-133 | 28 | 40 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 93 | 55-143 |

RPD= Relative Percent Difference



19.0

Curtis & Tompkins, Ltd.
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# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Field ID: | MW-4.1-081805 | Batch#: | 105078 |
| Lab ID: | 181361-001 | Sampled: | 08/18/05 |
| Matrix: | Water | Received: | 08/19/05 |
| Units: | ug/L | Analyzed: | 08/23/05 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Freon 12 | ND | 1.0 | 0.2 |
| Chloromethane | ND | 1.0 | 0.09 |
| Vinyl Chloride | ND | 0.5 | 0.2 |
| Bromomethane | ND | 1.0 | 0.2 |
| Chloroethane | ND | 1.0 | 0.1 |
| Ethanol | ND | 1,000 | 36 |
| Trichlorofluoromethane | ND | 1.0 | 0.1 |
| Isopropanol | ND | 100 | 1.1 |
| Acetone | ND | 10 | 0.5 |
| Freon 113 | ND | 5.0 | 0.09 |
| 1,1-Dichloroethene | ND | 0.5 | 0.09 |
| Methylene Chloride | ND | 10 | 0.2 |
| Carbon Disulfide | ND | 0.5 | 0.04 |
| MTBE | ND | 0.5 | 0.05 |
| trans-1,2-Dichloroethene | ND | 0.5 | 0.09 |
| Vinyl Acetate | ND | 10 | 0.1 |
| 1,1-Dichloroethane | ND | 0.5 | 0.06 |
| 2-Butanone | ND | 10 | 0.3 |
| cis-1,2-Dichloroethene | ND | 0.5 | 0.1 |
| 2,2-Dichloropropane | ND | 0.5 | 0.08 |
| Chloroform | ND | 0.5 | 0.04 |
| Bromochloromethane | ND | 0.5 | 0.2 |
| 1,1,1-Trichloroethane | ND | 0.5 | 0.04 |
| 1,1-Dichloropropene | ND | 0.5 | 0.05 |
| Carbon Tetrachloride | ND | 0.5 | 0.06 |
| 1,2-Dichloroethane | ND | 0.5 | 0.06 |
| Benzene | ND | 0.5 | 0.03 |
| Trichloroethene | ND | 0.5 | 0.09 |
| 1,2-Dichloropropane | ND | 0.5 | 0.1 |
| Bromodichloromethane | ND | 0.5 | 0.07 |
| Dibromomethane | ND | 0.5 | 0.1 |
| 4-Methyl-2-Pentanone | ND | 10 | 0.3 |
| cis-1,3-Dichloropropene | ND | 0.5 | 0.04 |
| Toluene | ND | 0.5 | 0.05 |
| trans-1,3-Dichloropropene | ND | 0.5 | 0.06 |
| 1,1,2-Trichloroethane | ND | 0.5 | 0.06 |
| 2-Hexanone | ND | 10 | 0.1 |
| 1,3-Dichloropropane | ND | 0.5 | 0.07 |
| Tetrachloroethene | ND | 0.5 | 0.09 |
| Dibromochloromethane | ND | 0.5 | 0.06 |
| 1,2-Dibromoethane | ND | 0.5 | 0.07 |
| Chlorobenzene | ND | 0.5 | 0.05 |
| 1,1,1,2-Tetrachloroethane | ND | 0.5 | 0.09 |
| Ethylbenzene | ND | 0.5 | 0.1 |
| m,p-Xylenes | ND | 0.5 | 0.2 |
| o-Xylene | ND | 0.5 | 0.1 |
| Styrene | ND | 0.5 | 0.06 |
| Bromoform | ND | 1.0 | 0.1 |
| Isopropylbenzene | ND | 0.5 | 0.1 |
| 1,1,2,2-Tetrachloroethane | ND | 0.5 | 0.06 |
| 1,2,3-Trichloropropane | ND | 0.5 | 0.2 |
| Propylbenzene | ND | 0.5 | 0.1 |
| Bromobenzene | ND | 0.5 | 0.09 |
| 1,3,5-Trimethylbenzene | ND | 0.5 | 0.1 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



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Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Field ID: | MW-4.1-081805 | Batch#: | 105078 |
| Lab ID: | 181361-001 | Sampled: | 08/18/05 |
| Matrix: | Water | Received: | 08/19/05 |
| Units: | ug/L | Analyzed: | 08/23/05 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| 2-Chlorotoluene | ND | 0.5 | 0.1 |
| 4-Chlorotoluene | ND | 0.5 | 0.07 |
| tert-Butylbenzene | ND | 0.5 | 0.08 |
| 1,2,4-Trimethylbenzene | ND | 0.5 | 0.1 |
| sec-Butylbenzene | ND | 0.5 | 0.08 |
| para-Isopropyl Toluene | ND | 0.5 | 0.04 |
| 1,3-Dichlorobenzene | ND | 0.5 | 0.1 |
| 1,4-Dichlorobenzene | ND | 0.5 | 0.2 |
| n-Butylbenzene | ND | 0.5 | 0.1 |
| 1,2-Dichlorobenzene | ND | 0.5 | 0.06 |
| 1,2-Dibromo-3-Chloropropane | ND | 2.0 | 0.1 |
| 1,2,4-Trichlorobenzene | ND | 0.5 | 0.2 |
| Hexachlorobutadiene | ND | 0.5 | 0.2 |
| Naphthalene | ND | 2.0 | 0.2 |
| 1,2,3-Trichlorobenzene | ND | 0.5 | 0.3 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 106 | 80-120 |
| 1,2-Dichloroethane-d4 | 115 | 80-122 |
| Toluene-d8 | 103 | 80-120 |
| Bromofluorobenzene | 106 | 80-124 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



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Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Field ID: | MW-4.2-081805 | Batch#: | 105078 |
| Lab ID: | 181361-002 | Sampled: | 08/18/05 |
| Matrix: | Water | Received: | 08/19/05 |
| Units: | ug/L | Analyzed: | 08/23/05 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Freon 12 | ND | 1.0 | 0.2 |
| Chloromethane | ND | 1.0 | 0.09 |
| Vinyl Chloride | ND | 0.5 | 0.2 |
| Bromomethane | ND | 1.0 | 0.2 |
| Chloroethane | ND | 1.0 | 0.1 |
| Ethanol | ND | 1,000 | 36 |
| Trichlorofluoromethane | ND | 1.0 | 0.1 |
| Isopropanol | ND | 100 | 1.1 |
| Acetone | ND | 10 | 0.5 |
| Freon 113 | ND | 5.0 | 0.09 |
| 1,1-Dichloroethene | ND | 0.5 | 0.09 |
| Methylene Chloride | ND | 10 | 0.2 |
| Carbon Disulfide | ND | 0.5 | 0.04 |
| MTBE | ND | 0.5 | 0.05 |
| trans-1,2-Dichloroethene | ND | 0.5 | 0.09 |
| Vinyl Acetate | ND | 10 | 0.1 |
| 1,1-Dichloroethane | ND | 0.5 | 0.06 |
| 2-Butanone | ND | 10 | 0.3 |
| cis-1,2-Dichloroethene | ND | 0.5 | 0.1 |
| 2,2-Dichloropropane | ND | 0.5 | 0.08 |
| Chloroform | ND | 0.5 | 0.04 |
| Bromochloromethane | ND | 0.5 | 0.2 |
| 1,1,1-Trichloroethane | ND | 0.5 | 0.04 |
| 1,1-Dichloropropene | ND | 0.5 | 0.05 |
| Carbon Tetrachloride | ND | 0.5 | 0.06 |
| 1,2-Dichloroethane | ND | 0.5 | 0.06 |
| Benzene | ND | 0.5 | 0.03 |
| Trichloroethene | ND | 0.5 | 0.09 |
| 1,2-Dichloropropane | ND | 0.5 | 0.1 |
| Bromodichloromethane | ND | 0.5 | 0.07 |
| Dibromomethane | ND | 0.5 | 0.1 |
| 4-Methyl-2-Pentanone | ND | 10 | 0.3 |
| cis-1,3-Dichloropropene | ND | 0.5 | 0.04 |
| Toluene | ND | 0.5 | 0.05 |
| trans-1,3-Dichloropropene | ND | 0.5 | 0.06 |
| 1,1,2-Trichloroethane | ND | 0.5 | 0.06 |
| 2-Hexanone | ND | 10 | 0.1 |
| 1,3-Dichloropropane | ND | 0.5 | 0.07 |
| Tetrachloroethene | ND | 0.5 | 0.09 |
| Dibromochloromethane | ND | 0.5 | 0.06 |
| 1,2-Dibromoethane | ND | 0.5 | 0.07 |
| Chlorobenzene | ND | 0.5 | 0.05 |
| 1,1,1,2-Tetrachloroethane | ND | 0.5 | 0.09 |
| Ethylbenzene | ND | 0.5 | 0.1 |
| m,p-Xylenes | ND | 0.5 | 0.2 |
| o-Xylene | ND | 0.5 | 0.1 |
| Styrene | ND | 0.5 | 0.06 |
| Bromoform | ND | 1.0 | 0.1 |
| Isopropylbenzene | ND | 0.5 | 0.1 |
| 1,1,2,2-Tetrachloroethane | ND | 0.5 | 0.06 |
| 1,2,3-Trichloropropane | ND | 0.5 | 0.2 |
| Propylbenzene | ND | 0.5 | 0.1 |
| Bromobenzene | ND | 0.5 | 0.09 |
| 1,3,5-Trimethylbenzene | ND | 0.5 | 0.1 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



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Analytical Laboratories, Since 1878

# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Field ID: | MW-4.2-081805 | Batch#: | 105078 |
| Lab ID: | 181361-002 | Sampled: | 08/18/05 |
| Matrix: | Water | Received: | 08/19/05 |
| Units: | ug/L | Analyzed: | 08/23/05 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| 2-Chlorotoluene | ND | 0.5 | 0.1 |
| 4-Chlorotoluene | ND | 0.5 | 0.07 |
| tert-Butylbenzene | ND | 0.5 | 0.08 |
| 1,2,4-Trimethylbenzene | ND | 0.5 | 0.1 |
| sec-Butylbenzene | ND | 0.5 | 0.08 |
| para-Isopropyl Toluene | ND | 0.5 | 0.04 |
| 1,3-Dichlorobenzene | ND | 0.5 | 0.1 |
| 1,4-Dichlorobenzene | ND | 0.5 | 0.2 |
| n-Butylbenzene | ND | 0.5 | 0.1 |
| 1,2-Dichlorobenzene | ND | 0.5 | 0.06 |
| 1,2-Dibromo-3-Chloropropane | ND | 2.0 | 0.1 |
| 1,2,4-Trichlorobenzene | ND | 0.5 | 0.2 |
| Hexachlorobutadiene | ND | 0.5 | 0.2 |
| Naphthalene | ND | 2.0 | 0.2 |
| 1,2,3-Trichlorobenzene | ND | 0.5 | 0.3 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 106 | 80-120 |
| 1,2-Dichloroethane-d4 | 116 | 80-122 |
| Toluene-d8 | 104 | 80-120 |
| Bromofluorobenzene | 104 | 80-124 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



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Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Field ID: | MW-4.3-081705 | Batch#: | 105078 |
| Lab ID: | 181361-003 | Sampled: | 08/17/05 |
| Matrix: | Water | Received: | 08/19/05 |
| Units: | ug/L | Analyzed: | 08/23/05 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Freon 12 | ND | 1.0 | 0.2 |
| Chloromethane | ND | 1.0 | 0.09 |
| Vinyl Chloride | ND | 0.5 | 0.2 |
| Bromomethane | ND | 1.0 | 0.2 |
| Chloroethane | ND | 1.0 | 0.1 |
| Ethanol | ND | 1,000 | 36 |
| Trichlorofluoromethane | ND | 1.0 | 0.1 |
| Isopropanol | ND | 100 | 1.1 |
| Acetone | ND | 10 | 0.5 |
| Freon 113 | ND | 5.0 | 0.09 |
| 1,1-Dichloroethene | ND | 0.5 | 0.09 |
| Methylene Chloride | ND | 10 | 0.2 |
| Carbon Disulfide | ND | 0.5 | 0.04 |
| MTBE | ND | 0.5 | 0.05 |
| trans-1,2-Dichloroethene | ND | 0.5 | 0.09 |
| Vinyl Acetate | ND | 10 | 0.1 |
| 1,1-Dichloroethane | ND | 0.5 | 0.06 |
| 2-Butanone | ND | 10 | 0.3 |
| cis-1,2-Dichloroethene | ND | 0.5 | 0.1 |
| 2,2-Dichloropropane | ND | 0.5 | 0.08 |
| Chloroform | ND | 0.5 | 0.04 |
| Bromochloromethane | ND | 0.5 | 0.2 |
| 1,1,1-Trichloroethane | ND | 0.5 | 0.04 |
| 1,1-Dichloropropene | ND | 0.5 | 0.05 |
| Carbon Tetrachloride | ND | 0.5 | 0.06 |
| 1,2-Dichloroethane | ND | 0.5 | 0.06 |
| Benzene | ND | 0.5 | 0.03 |
| Trichloroethene | ND | 0.5 | 0.09 |
| 1,2-Dichloropropane | ND | 0.5 | 0.1 |
| Bromodichloromethane | ND | 0.5 | 0.07 |
| Dibromomethane | ND | 0.5 | 0.1 |
| 4-Methyl-2-Pentanone | ND | 10 | 0.3 |
| cis-1,3-Dichloropropene | ND | 0.5 | 0.04 |
| Toluene | ND | 0.5 | 0.05 |
| trans-1,3-Dichloropropene | ND | 0.5 | 0.06 |
| 1,1,2-Trichloroethane | ND | 0.5 | 0.06 |
| 2-Hexanone | ND | 10 | 0.1 |
| 1,3-Dichloropropane | ND | 0.5 | 0.07 |
| Tetrachloroethene | ND | 0.5 | 0.09 |
| Dibromochloromethane | ND | 0.5 | 0.06 |
| 1,2-Dibromoethane | ND | 0.5 | 0.07 |
| Chlorobenzene | ND | 0.5 | 0.05 |
| 1,1,1,2-Tetrachloroethane | ND | 0.5 | 0.09 |
| Ethylbenzene | ND | 0.5 | 0.1 |
| m,p-Xylenes | ND | 0.5 | 0.2 |
| o-Xylene | ND | 0.5 | 0.1 |
| Styrene | ND | 0.5 | 0.06 |
| Bromoform | ND | 1.0 | 0.1 |
| Isopropylbenzene | ND | 0.5 | 0.1 |
| 1,1,2,2-Tetrachloroethane | ND | 0.5 | 0.06 |
| 1,2,3-Trichloropropane | ND | 0.5 | 0.2 |
| Propylbenzene | ND | 0.5 | 0.1 |
| Bromobenzene | ND | 0.5 | 0.09 |
| 1,3,5-Trimethylbenzene | ND | 0.5 | 0.1 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



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Analytical Laboratories, Since 1878

# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Field ID: | MW-4.3-081705 | Batch#: | 105078 |
| Lab ID: | 181361-003 | Sampled: | 08/17/05 |
| Matrix: | Water | Received: | 08/19/05 |
| Units: | ug/L | Analyzed: | 08/23/05 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| 2-Chlorotoluene | ND | 0.5 | 0.1 |
| 4-Chlorotoluene | ND | 0.5 | 0.07 |
| tert-Butylbenzene | ND | 0.5 | 0.08 |
| 1,2,4-Trimethylbenzene | ND | 0.5 | 0.1 |
| sec-Butylbenzene | ND | 0.5 | 0.08 |
| para-Isopropyl Toluene | ND | 0.5 | 0.04 |
| 1,3-Dichlorobenzene | ND | 0.5 | 0.1 |
| 1,4-Dichlorobenzene | ND | 0.5 | 0.2 |
| n-Butylbenzene | ND | 0.5 | 0.1 |
| 1,2-Dichlorobenzene | ND | 0.5 | 0.06 |
| 1,2-Dibromo-3-Chloropropane | ND | 2.0 | 0.1 |
| 1,2,4-Trichlorobenzene | ND | 0.5 | 0.2 |
| Hexachlorobutadiene | ND | 0.5 | 0.2 |
| Naphthalene | ND | 2.0 | 0.2 |
| 1,2,3-Trichlorobenzene | ND | 0.5 | 0.3 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 105 | 80-120 |
| 1,2-Dichloroethane-d4 | 117 | 80-122 |
| Toluene-d8 | 104 | 80-120 |
| Bromofluorobenzene | 104 | 80-124 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



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Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Field ID: | MW-4.4-081705 | Batch#: | 105118 |
| Lab ID: | 181361-004 | Sampled: | 08/17/05 |
| Matrix: | Water | Received: | 08/19/05 |
| Units: | ug/L | Analyzed: | 08/24/05 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Freon 12 | ND | 1.0 | 0.2 |
| Chloromethane | ND | 1.0 | 0.09 |
| Vinyl Chloride | ND | 0.5 | 0.2 |
| Bromomethane | ND | 1.0 | 0.2 |
| Chloroethane | ND | 1.0 | 0.1 |
| Ethanol | ND | 1,000 | 36 |
| Trichlorofluoromethane | ND | 1.0 | 0.1 |
| Isopropanol | ND | 100 | 1.1 |
| Acetone | ND | 10 | 0.5 |
| Freon 113 | ND | 5.0 | 0.09 |
| 1,1-Dichloroethene | ND | 0.5 | 0.09 |
| Methylene Chloride | ND | 10 | 0.2 |
| Carbon Disulfide | ND | 0.5 | 0.04 |
| MTBE | ND | 0.5 | 0.05 |
| trans-1,2-Dichloroethene | ND | 0.5 | 0.09 |
| Vinyl Acetate | ND | 10 | 0.1 |
| 1,1-Dichloroethane | ND | 0.5 | 0.06 |
| 2-Butanone | ND | 10 | 0.3 |
| cis-1,2-Dichloroethene | ND | 0.5 | 0.1 |
| 2,2-Dichloropropane | ND | 0.5 | 0.08 |
| Chloroform | ND | 0.5 | 0.04 |
| Bromochloromethane | ND | 0.5 | 0.2 |
| 1,1,1-Trichloroethane | ND | 0.5 | 0.04 |
| 1,1-Dichloropropene | ND | 0.5 | 0.05 |
| Carbon Tetrachloride | ND | 0.5 | 0.06 |
| 1,2-Dichloroethane | ND | 0.5 | 0.06 |
| Benzene | ND | 0.5 | 0.03 |
| Trichloroethene | ND | 0.5 | 0.09 |
| 1,2-Dichloropropane | ND | 0.5 | 0.1 |
| Bromodichloromethane | ND | 0.5 | 0.07 |
| Dibromomethane | ND | 0.5 | 0.1 |
| 4-Methyl-2-Pentanone | ND | 10 | 0.3 |
| cis-1,3-Dichloropropene | ND | 0.5 | 0.04 |
| Toluene | ND | 0.5 | 0.05 |
| trans-1,3-Dichloropropene | ND | 0.5 | 0.06 |
| 1,1,2-Trichloroethane | ND | 0.5 | 0.06 |
| 2-Hexanone | ND | 10 | 0.1 |
| 1,3-Dichloropropane | ND | 0.5 | 0.07 |
| Tetrachloroethene | ND | 0.5 | 0.09 |
| Dibromochloromethane | ND | 0.5 | 0.06 |
| 1,2-Dibromoethane | ND | 0.5 | 0.07 |
| Chlorobenzene | ND | 0.5 | 0.05 |
| 1,1,1,2-Tetrachloroethane | ND | 0.5 | 0.09 |
| Ethylbenzene | ND | 0.5 | 0.1 |
| m,p-Xylenes | ND | 0.5 | 0.2 |
| o-Xylene | ND | 0.5 | 0.1 |
| Styrene | ND | 0.5 | 0.06 |
| Bromoform | ND | 1.0 | 0.1 |
| Isopropylbenzene | ND | 0.5 | 0.1 |
| 1,1,2,2-Tetrachloroethane | ND | 0.5 | 0.06 |
| 1,2,3-Trichloropropane | ND | 0.5 | 0.2 |
| Propylbenzene | ND | 0.5 | 0.1 |
| Bromobenzene | ND | 0.5 | 0.09 |
| 1,3,5-Trimethylbenzene | ND | 0.5 | 0.1 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



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Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Field ID: | MW-4.4-081705 | Batch#: | 105118 |
| Lab ID: | 181361-004 | Sampled: | 08/17/05 |
| Matrix: | Water | Received: | 08/19/05 |
| Units: | ug/L | Analyzed: | 08/24/05 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| 2-Chlorotoluene | ND | 0.5 | 0.1 |
| 4-Chlorotoluene | ND | 0.5 | 0.07 |
| tert-Butylbenzene | ND | 0.5 | 0.08 |
| 1,2,4-Trimethylbenzene | ND | 0.5 | 0.1 |
| sec-Butylbenzene | ND | 0.5 | 0.08 |
| para-Isopropyl Toluene | ND | 0.5 | 0.04 |
| 1,3-Dichlorobenzene | ND | 0.5 | 0.1 |
| 1,4-Dichlorobenzene | ND | 0.5 | 0.2 |
| n-Butylbenzene | ND | 0.5 | 0.1 |
| 1,2-Dichlorobenzene | ND | 0.5 | 0.06 |
| 1,2-Dibromo-3-Chloropropane | ND | 2.0 | 0.1 |
| 1,2,4-Trichlorobenzene | ND | 0.5 | 0.2 |
| Hexachlorobutadiene | ND | 0.5 | 0.2 |
| Naphthalene | ND | 2.0 | 0.2 |
| 1,2,3-Trichlorobenzene | ND | 0.5 | 0.3 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 106 | 80-120 |
| 1,2-Dichloroethane-d4 | 116 | 80-122 |
| Toluene-d8 | 102 | 80-120 |
| Bromofluorobenzene | 104 | 80-124 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



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Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Field ID: | MW-5.8-081705 | Batch#: | 105118 |
| Lab ID: | 181361-005 | Sampled: | 08/17/05 |
| Matrix: | Water | Received: | 08/19/05 |
| Units: | ug/L | Analyzed: | 08/24/05 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Freon 12 | ND | 1.0 | 0.2 |
| Chloromethane | ND | 1.0 | 0.09 |
| Vinyl Chloride | ND | 0.5 | 0.2 |
| Bromomethane | ND | 1.0 | 0.2 |
| Chloroethane | ND | 1.0 | 0.1 |
| Ethanol | ND | 1,000 | 36 |
| Trichlorofluoromethane | ND | 1.0 | 0.1 |
| Isopropanol | ND | 100 | 1.1 |
| Acetone | ND | 10 | 0.5 |
| Freon 113 | ND | 5.0 | 0.09 |
| 1,1-Dichloroethene | ND | 0.5 | 0.09 |
| Methylene Chloride | ND | 10 | 0.2 |
| Carbon Disulfide | ND | 0.5 | 0.04 |
| MTBE | ND | 0.5 | 0.05 |
| trans-1,2-Dichloroethene | ND | 0.5 | 0.09 |
| Vinyl Acetate | ND | 10 | 0.1 |
| 1,1-Dichloroethane | ND | 0.5 | 0.06 |
| 2-Butanone | ND | 10 | 0.3 |
| cis-1,2-Dichloroethene | ND | 0.5 | 0.1 |
| 2,2-Dichloropropane | ND | 0.5 | 0.08 |
| Chloroform | ND | 0.5 | 0.04 |
| Bromochloromethane | ND | 0.5 | 0.2 |
| 1,1,1-Trichloroethane | ND | 0.5 | 0.04 |
| 1,1-Dichloropropene | ND | 0.5 | 0.05 |
| Carbon Tetrachloride | ND | 0.5 | 0.06 |
| 1,2-Dichloroethane | ND | 0.5 | 0.06 |
| Benzene | ND | 0.5 | 0.03 |
| Trichloroethene | ND | 0.5 | 0.09 |
| 1,2-Dichloropropane | ND | 0.5 | 0.1 |
| Bromodichloromethane | ND | 0.5 | 0.07 |
| Dibromomethane | ND | 0.5 | 0.1 |
| 4-Methyl-2-Pentanone | ND | 10 | 0.3 |
| cis-1,3-Dichloropropene | ND | 0.5 | 0.04 |
| Toluene | ND | 0.5 | 0.05 |
| trans-1,3-Dichloropropene | ND | 0.5 | 0.06 |
| 1,1,2-Trichloroethane | ND | 0.5 | 0.06 |
| 2-Hexanone | ND | 10 | 0.1 |
| 1,3-Dichloropropane | ND | 0.5 | 0.07 |
| Tetrachloroethene | ND | 0.5 | 0.09 |
| Dibromochloromethane | ND | 0.5 | 0.06 |
| 1,2-Dibromoethane | ND | 0.5 | 0.07 |
| Chlorobenzene | ND | 0.5 | 0.05 |
| 1,1,1,2-Tetrachloroethane | ND | 0.5 | 0.09 |
| Ethylbenzene | ND | 0.5 | 0.1 |
| m,p-Xylenes | ND | 0.5 | 0.2 |
| o-Xylene | ND | 0.5 | 0.1 |
| Styrene | ND | 0.5 | 0.06 |
| Bromoform | ND | 1.0 | 0.1 |
| Isopropylbenzene | ND | 0.5 | 0.1 |
| 1,1,2,2-Tetrachloroethane | ND | 0.5 | 0.06 |
| 1,2,3-Trichloropropane | ND | 0.5 | 0.2 |
| Propylbenzene | ND | 0.5 | 0.1 |
| Bromobenzene | ND | 0.5 | 0.09 |
| 1,3,5-Trimethylbenzene | ND | 0.5 | 0.1 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



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Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Field ID: | MW-5.8-081705 | Batch#: | 105118 |
| Lab ID: | 181361-005 | Sampled: | 08/17/05 |
| Matrix: | Water | Received: | 08/19/05 |
| Units: | ug/L | Analyzed: | 08/24/05 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| 2-Chlorotoluene | ND | 0.5 | 0.1 |
| 4-Chlorotoluene | ND | 0.5 | 0.07 |
| tert-Butylbenzene | ND | 0.5 | 0.08 |
| 1,2,4-Trimethylbenzene | ND | 0.5 | 0.1 |
| sec-Butylbenzene | ND | 0.5 | 0.08 |
| para-Isopropyl Toluene | ND | 0.5 | 0.04 |
| 1,3-Dichlorobenzene | ND | 0.5 | 0.1 |
| 1,4-Dichlorobenzene | ND | 0.5 | 0.2 |
| n-Butylbenzene | ND | 0.5 | 0.1 |
| 1,2-Dichlorobenzene | ND | 0.5 | 0.06 |
| 1,2-Dibromo-3-Chloropropane | ND | 2.0 | 0.1 |
| 1,2,4-Trichlorobenzene | ND | 0.5 | 0.2 |
| Hexachlorobutadiene | ND | 0.5 | 0.2 |
| Naphthalene | ND | 2.0 | 0.2 |
| 1,2,3-Trichlorobenzene | ND | 0.5 | 0.3 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 106 | 80-120 |
| 1,2-Dichloroethane-d4 | 117 | 80-122 |
| Toluene-d8 | 104 | 80-120 |
| Bromofluorobenzene | 105 | 80-124 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



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Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Field ID: | MW-5.9-081805 | Batch#: | 105118 |
| Lab ID: | 181361-006 | Sampled: | 08/18/05 |
| Matrix: | Water | Received: | 08/19/05 |
| Units: | ug/L | Analyzed: | 08/24/05 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Freon 12 | ND | 1.0 | 0.2 |
| Chloromethane | ND | 1.0 | 0.09 |
| Vinyl Chloride | ND | 0.5 | 0.2 |
| Bromomethane | ND | 1.0 | 0.2 |
| Chloroethane | ND | 1.0 | 0.1 |
| Ethanol | ND | 1,000 | 36 |
| Trichlorofluoromethane | ND | 1.0 | 0.1 |
| Isopropanol | ND | 100 | 1.1 |
| Acetone | ND | 10 | 0.5 |
| Freon 113 | ND | 5.0 | 0.09 |
| 1,1-Dichloroethene | ND | 0.5 | 0.09 |
| Methylene Chloride | ND | 10 | 0.2 |
| Carbon Disulfide | ND | 0.5 | 0.04 |
| MTBE | ND | 0.5 | 0.05 |
| trans-1,2-Dichloroethene | ND | 0.5 | 0.09 |
| Vinyl Acetate | ND | 10 | 0.1 |
| 1,1-Dichloroethane | ND | 0.5 | 0.06 |
| 2-Butanone | ND | 10 | 0.3 |
| cis-1,2-Dichloroethene | ND | 0.5 | 0.1 |
| 2,2-Dichloropropane | ND | 0.5 | 0.08 |
| Chloroform | ND | 0.5 | 0.04 |
| Bromochloromethane | ND | 0.5 | 0.2 |
| 1,1,1-Trichloroethane | ND | 0.5 | 0.04 |
| 1,1-Dichloropropene | ND | 0.5 | 0.05 |
| Carbon Tetrachloride | ND | 0.5 | 0.06 |
| 1,2-Dichloroethane | ND | 0.5 | 0.06 |
| Benzene | ND | 0.5 | 0.03 |
| Trichloroethene | ND | 0.5 | 0.09 |
| 1,2-Dichloropropane | ND | 0.5 | 0.1 |
| Bromodichloromethane | ND | 0.5 | 0.07 |
| Dibromomethane | ND | 0.5 | 0.1 |
| 4-Methyl-2-Pentanone | ND | 10 | 0.3 |
| cis-1,3-Dichloropropene | ND | 0.5 | 0.04 |
| Toluene | ND | 0.5 | 0.05 |
| trans-1,3-Dichloropropene | ND | 0.5 | 0.06 |
| 1,1,2-Trichloroethane | ND | 0.5 | 0.06 |
| 2-Hexanone | ND | 10 | 0.1 |
| 1,3-Dichloropropane | ND | 0.5 | 0.07 |
| Tetrachloroethene | ND | 0.5 | 0.09 |
| Dibromochloromethane | ND | 0.5 | 0.06 |
| 1,2-Dibromoethane | ND | 0.5 | 0.07 |
| Chlorobenzene | ND | 0.5 | 0.05 |
| 1,1,1,2-Tetrachloroethane | ND | 0.5 | 0.09 |
| Ethylbenzene | ND | 0.5 | 0.1 |
| m,p-Xylenes | ND | 0.5 | 0.2 |
| o-Xylene | ND | 0.5 | 0.1 |
| Styrene | ND | 0.5 | 0.06 |
| Bromoform | ND | 1.0 | 0.1 |
| Isopropylbenzene | ND | 0.5 | 0.1 |
| 1,1,2,2-Tetrachloroethane | ND | 0.5 | 0.06 |
| 1,2,3-Trichloropropane | ND | 0.5 | 0.2 |
| Propylbenzene | ND | 0.5 | 0.1 |
| Bromobenzene | ND | 0.5 | 0.09 |
| 1,3,5-Trimethylbenzene | ND | 0.5 | 0.1 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



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Analytical Laboratories, Since 1878

# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Field ID: | MW-5.9-081805 | Batch#: | 105118 |
| Lab ID: | 181361-006 | Sampled: | 08/18/05 |
| Matrix: | Water | Received: | 08/19/05 |
| Units: | ug/L | Analyzed: | 08/24/05 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| 2-Chlorotoluene | ND | 0.5 | 0.1 |
| 4-Chlorotoluene | ND | 0.5 | 0.07 |
| tert-Butylbenzene | ND | 0.5 | 0.08 |
| 1,2,4-Trimethylbenzene | ND | 0.5 | 0.1 |
| sec-Butylbenzene | ND | 0.5 | 0.08 |
| para-Isopropyl Toluene | ND | 0.5 | 0.04 |
| 1,3-Dichlorobenzene | ND | 0.5 | 0.1 |
| 1,4-Dichlorobenzene | ND | 0.5 | 0.2 |
| n-Butylbenzene | ND | 0.5 | 0.1 |
| 1,2-Dichlorobenzene | ND | 0.5 | 0.06 |
| 1,2-Dibromo-3-Chloropropane | ND | 2.0 | 0.1 |
| 1,2,4-Trichlorobenzene | ND | 0.5 | 0.2 |
| Hexachlorobutadiene | ND | 0.5 | 0.2 |
| Naphthalene | ND | 2.0 | 0.2 |
| 1,2,3-Trichlorobenzene | ND | 0.5 | 0.3 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 106 | 80-120 |
| 1,2-Dichloroethane-d4 | 115 | 80-122 |
| Toluene-d8 | 104 | 80-120 |
| Bromofluorobenzene | 105 | 80-124 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



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Analytical Laboratories, Since 1878

# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Field ID: | MW-7.1-081805 | Batch#: | 105118 |
| Lab ID: | 181361-007 | Sampled: | 08/18/05 |
| Matrix: | Water | Received: | 08/19/05 |
| Units: | ug/L | Analyzed: | 08/24/05 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Freon 12 | ND | 1.0 | 0.2 |
| Chloromethane | ND | 1.0 | 0.09 |
| Vinyl Chloride | ND | 0.5 | 0.2 |
| Bromomethane | ND | 1.0 | 0.2 |
| Chloroethane | ND | 1.0 | 0.1 |
| Ethanol | ND | 1,000 | 36 |
| Trichlorofluoromethane | ND | 1.0 | 0.1 |
| Isopropanol | ND | 100 | 1.1 |
| Acetone | ND | 10 | 0.5 |
| Freon 113 | ND | 5.0 | 0.09 |
| 1,1-Dichloroethene | ND | 0.5 | 0.09 |
| Methylene Chloride | ND | 10 | 0.2 |
| Carbon Disulfide | ND | 0.5 | 0.04 |
| MTBE | ND | 0.5 | 0.05 |
| trans-1,2-Dichloroethene | ND | 0.5 | 0.09 |
| Vinyl Acetate | ND | 10 | 0.1 |
| 1,1-Dichloroethane | ND | 0.5 | 0.06 |
| 2-Butanone | ND | 10 | 0.3 |
| cis-1,2-Dichloroethene | ND | 0.5 | 0.1 |
| 2,2-Dichloropropane | ND | 0.5 | 0.08 |
| Chloroform | ND | 0.5 | 0.04 |
| Bromochloromethane | ND | 0.5 | 0.2 |
| 1,1,1-Trichloroethane | ND | 0.5 | 0.04 |
| 1,1-Dichloropropene | ND | 0.5 | 0.05 |
| Carbon Tetrachloride | ND | 0.5 | 0.06 |
| 1,2-Dichloroethane | ND | 0.5 | 0.06 |
| Benzene | ND | 0.5 | 0.03 |
| Trichloroethene | ND | 0.5 | 0.09 |
| 1,2-Dichloropropane | ND | 0.5 | 0.1 |
| Bromodichloromethane | ND | 0.5 | 0.07 |
| Dibromomethane | ND | 0.5 | 0.1 |
| 4-Methyl-2-Pentanone | ND | 10 | 0.3 |
| cis-1,3-Dichloropropene | ND | 0.5 | 0.04 |
| Toluene | ND | 0.5 | 0.05 |
| trans-1,3-Dichloropropene | ND | 0.5 | 0.06 |
| 1,1,2-Trichloroethane | ND | 0.5 | 0.06 |
| 2-Hexanone | ND | 10 | 0.1 |
| 1,3-Dichloropropane | ND | 0.5 | 0.07 |
| Tetrachloroethene | ND | 0.5 | 0.09 |
| Dibromochloromethane | ND | 0.5 | 0.06 |
| 1,2-Dibromoethane | ND | 0.5 | 0.07 |
| Chlorobenzene | ND | 0.5 | 0.05 |
| 1,1,1,2-Tetrachloroethane | ND | 0.5 | 0.09 |
| Ethylbenzene | ND | 0.5 | 0.1 |
| m,p-Xylenes | ND | 0.5 | 0.2 |
| o-Xylene | ND | 0.5 | 0.1 |
| Styrene | ND | 0.5 | 0.06 |
| Bromoform | ND | 1.0 | 0.1 |
| Isopropylbenzene | ND | 0.5 | 0.1 |
| 1,1,2,2-Tetrachloroethane | ND | 0.5 | 0.06 |
| 1,2,3-Trichloropropane | ND | 0.5 | 0.2 |
| Propylbenzene | ND | 0.5 | 0.1 |
| Bromobenzene | ND | 0.5 | 0.09 |
| 1,3,5-Trimethylbenzene | ND | 0.5 | 0.1 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



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Analytical Laboratories, Since 1878

# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Field ID: | MW-7.1-081805 | Batch#: | 105118 |
| Lab ID: | 181361-007 | Sampled: | 08/18/05 |
| Matrix: | Water | Received: | 08/19/05 |
| Units: | ug/L | Analyzed: | 08/24/05 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| 2-Chlorotoluene | ND | 0.5 | 0.1 |
| 4-Chlorotoluene | ND | 0.5 | 0.07 |
| tert-Butylbenzene | ND | 0.5 | 0.08 |
| 1,2,4-Trimethylbenzene | ND | 0.5 | 0.1 |
| sec-Butylbenzene | ND | 0.5 | 0.08 |
| para-Isopropyl Toluene | ND | 0.5 | 0.04 |
| 1,3-Dichlorobenzene | ND | 0.5 | 0.1 |
| 1,4-Dichlorobenzene | ND | 0.5 | 0.2 |
| n-Butylbenzene | ND | 0.5 | 0.1 |
| 1,2-Dichlorobenzene | ND | 0.5 | 0.06 |
| 1,2-Dibromo-3-Chloropropane | ND | 2.0 | 0.1 |
| 1,2,4-Trichlorobenzene | ND | 0.5 | 0.2 |
| Hexachlorobutadiene | ND | 0.5 | 0.2 |
| Naphthalene | ND | 2.0 | 0.2 |
| 1,2,3-Trichlorobenzene | ND | 0.5 | 0.3 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 106 | 80-120 |
| 1,2-Dichloroethane-d4 | 117 | 80-122 |
| Toluene-d8 | 102 | 80-120 |
| Bromofluorobenzene | 104 | 80-124 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



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Analytical Laboratories, Since 1878

# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Field ID: | MW-10.4-081805 | Batch#: | 105118 |
| Lab ID: | 181361-008 | Sampled: | 08/18/05 |
| Matrix: | Water | Received: | 08/19/05 |
| Units: | ug/L | Analyzed: | 08/24/05 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Freon 12 | ND | 1.0 | 0.2 |
| Chloromethane | ND | 1.0 | 0.09 |
| Vinyl Chloride | ND | 0.5 | 0.2 |
| Bromomethane | ND | 1.0 | 0.2 |
| Chloroethane | ND | 1.0 | 0.1 |
| Ethanol | ND | 1,000 | 36 |
| Trichlorofluoromethane | ND | 1.0 | 0.1 |
| Isopropanol | ND | 100 | 1.1 |
| Acetone | ND | 10 | 0.5 |
| Freon 113 | ND | 5.0 | 0.09 |
| 1,1-Dichloroethene | ND | 0.5 | 0.09 |
| Methylene Chloride | ND | 10 | 0.2 |
| Carbon Disulfide | ND | 0.5 | 0.04 |
| MTBE | ND | 0.5 | 0.05 |
| trans-1,2-Dichloroethene | ND | 0.5 | 0.09 |
| Vinyl Acetate | ND | 10 | 0.1 |
| 1,1-Dichloroethane | ND | 0.5 | 0.06 |
| 2-Butanone | ND | 10 | 0.3 |
| cis-1,2-Dichloroethene | ND | 0.5 | 0.1 |
| 2,2-Dichloropropane | ND | 0.5 | 0.08 |
| Chloroform | ND | 0.5 | 0.04 |
| Bromochloromethane | ND | 0.5 | 0.2 |
| 1,1,1-Trichloroethane | ND | 0.5 | 0.04 |
| 1,1-Dichloropropene | ND | 0.5 | 0.05 |
| Carbon Tetrachloride | ND | 0.5 | 0.06 |
| 1,2-Dichloroethane | ND | 0.5 | 0.06 |
| Benzene | ND | 0.5 | 0.03 |
| Trichloroethene | ND | 0.5 | 0.09 |
| 1,2-Dichloropropane | ND | 0.5 | 0.1 |
| Bromodichloromethane | ND | 0.5 | 0.07 |
| Dibromomethane | ND | 0.5 | 0.1 |
| 4-Methyl-2-Pentanone | ND | 10 | 0.3 |
| cis-1,3-Dichloropropene | ND | 0.5 | 0.04 |
| Toluene | 0.1 J | 0.5 | 0.05 |
| trans-1,3-Dichloropropene | ND | 0.5 | 0.06 |
| 1,1,2-Trichloroethane | ND | 0.5 | 0.06 |
| 2-Hexanone | ND | 10 | 0.1 |
| 1,3-Dichloropropane | ND | 0.5 | 0.07 |
| Tetrachloroethene | ND | 0.5 | 0.09 |
| Dibromochloromethane | ND | 0.5 | 0.06 |
| 1,2-Dibromoethane | ND | 0.5 | 0.07 |
| Chlorobenzene | ND | 0.5 | 0.05 |
| 1,1,1,2-Tetrachloroethane | ND | 0.5 | 0.09 |
| Ethylbenzene | ND | 0.5 | 0.1 |
| m,p-Xylenes | ND | 0.5 | 0.2 |
| o-Xylene | ND | 0.5 | 0.1 |
| Styrene | ND | 0.5 | 0.06 |
| Bromoform | ND | 1.0 | 0.1 |
| Isopropylbenzene | ND | 0.5 | 0.1 |
| 1,1,2,2-Tetrachloroethane | ND | 0.5 | 0.06 |
| 1,2,3-Trichloropropane | ND | 0.5 | 0.2 |
| Propylbenzene | ND | 0.5 | 0.1 |
| Bromobenzene | ND | 0.5 | 0.09 |

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



62.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Field ID: | MW-10.4-081805 | Batch#: | 105118 |
| Lab ID: | 181361-008 | Sampled: | 08/18/05 |
| Matrix: | Water | Received: | 08/19/05 |
| Units: | ug/L | Analyzed: | 08/24/05 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| 1,3,5-Trimethylbenzene | ND | 0.5 | 0.1 |
| 2-Chlorotoluene | ND | 0.5 | 0.1 |
| 4-Chlorotoluene | ND | 0.5 | 0.07 |
| tert-Butylbenzene | ND | 0.5 | 0.08 |
| 1,2,4-Trimethylbenzene | ND | 0.5 | 0.1 |
| sec-Butylbenzene | ND | 0.5 | 0.08 |
| para-Isopropyl Toluene | ND | 0.5 | 0.04 |
| 1,3-Dichlorobenzene | ND | 0.5 | 0.1 |
| 1,4-Dichlorobenzene | ND | 0.5 | 0.2 |
| n-Butylbenzene | ND | 0.5 | 0.1 |
| 1,2-Dichlorobenzene | ND | 0.5 | 0.06 |
| 1,2-Dibromo-3-Chloropropane | ND | 2.0 | 0.1 |
| 1,2,4-Trichlorobenzene | ND | 0.5 | 0.2 |
| Hexachlorobutadiene | ND | 0.5 | 0.2 |
| Naphthalene | ND | 2.0 | 0.2 |
| 1,2,3-Trichlorobenzene | ND | 0.5 | 0.3 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 110 | 80-120 |
| 1,2-Dichloroethane-d4 | 119 | 80-122 |
| Toluene-d8 | 103 | 80-120 |
| Bromofluorobenzene | 105 | 80-124 |

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



62.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Field ID: | MW-5.9-081805TB3 | Batch#: | 105118 |
| Lab ID: | 181361-009 | Sampled: | 08/18/05 |
| Matrix: | Water | Received: | 08/19/05 |
| Units: | ug/L | Analyzed: | 08/24/05 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Freon 12 | ND | 1.0 | 0.2 |
| Chloromethane | ND | 1.0 | 0.09 |
| Vinyl Chloride | ND | 0.5 | 0.2 |
| Bromomethane | ND | 1.0 | 0.2 |
| Chloroethane | ND | 1.0 | 0.1 |
| Ethanol | ND | 1,000 | 36 |
| Trichlorofluoromethane | ND | 1.0 | 0.1 |
| Isopropanol | ND | 100 | 1.1 |
| Acetone | 1.0 J | 10 | 0.5 |
| Freon 113 | ND | 5.0 | 0.09 |
| 1,1-Dichloroethene | ND | 0.5 | 0.09 |
| Methylene Chloride | ND | 10 | 0.2 |
| Carbon Disulfide | ND | 0.5 | 0.04 |
| MTBE | ND | 0.5 | 0.05 |
| trans-1,2-Dichloroethene | ND | 0.5 | 0.09 |
| Vinyl Acetate | ND | 10 | 0.1 |
| 1,1-Dichloroethane | ND | 0.5 | 0.06 |
| 2-Butanone | ND | 10 | 0.3 |
| cis-1,2-Dichloroethene | ND | 0.5 | 0.1 |
| 2,2-Dichloropropane | ND | 0.5 | 0.08 |
| Chloroform | ND | 0.5 | 0.04 |
| Bromochloromethane | ND | 0.5 | 0.2 |
| 1,1,1-Trichloroethane | ND | 0.5 | 0.04 |
| 1,1-Dichloropropene | ND | 0.5 | 0.05 |
| Carbon Tetrachloride | ND | 0.5 | 0.06 |
| 1,2-Dichloroethane | ND | 0.5 | 0.06 |
| Benzene | ND | 0.5 | 0.03 |
| Trichloroethene | ND | 0.5 | 0.09 |
| 1,2-Dichloropropane | ND | 0.5 | 0.1 |
| Bromodichloromethane | ND | 0.5 | 0.07 |
| Dibromomethane | ND | 0.5 | 0.1 |
| 4-Methyl-2-Pentanone | ND | 10 | 0.3 |
| cis-1,3-Dichloropropene | ND | 0.5 | 0.04 |
| Toluene | ND | 0.5 | 0.05 |
| trans-1,3-Dichloropropene | ND | 0.5 | 0.06 |
| 1,1,2-Trichloroethane | ND | 0.5 | 0.06 |
| 2-Hexanone | ND | 10 | 0.1 |
| 1,3-Dichloropropane | ND | 0.5 | 0.07 |
| Tetrachloroethene | ND | 0.5 | 0.09 |
| Dibromochloromethane | ND | 0.5 | 0.06 |
| 1,2-Dibromoethane | ND | 0.5 | 0.07 |
| Chlorobenzene | ND | 0.5 | 0.05 |
| 1,1,1,2-Tetrachloroethane | ND | 0.5 | 0.09 |
| Ethylbenzene | ND | 0.5 | 0.1 |
| m,p-Xylenes | ND | 0.5 | 0.2 |
| o-Xylene | ND | 0.5 | 0.1 |
| Styrene | ND | 0.5 | 0.06 |
| Bromoform | ND | 1.0 | 0.1 |
| Isopropylbenzene | ND | 0.5 | 0.1 |
| 1,1,2,2-Tetrachloroethane | ND | 0.5 | 0.06 |
| 1,2,3-Trichloropropane | ND | 0.5 | 0.2 |
| Propylbenzene | ND | 0.5 | 0.1 |
| Bromobenzene | ND | 0.5 | 0.09 |

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



63.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Field ID: | MW-5.9-081805TB3 | Batch#: | 105118 |
| Lab ID: | 181361-009 | Sampled: | 08/18/05 |
| Matrix: | Water | Received: | 08/19/05 |
| Units: | ug/L | Analyzed: | 08/24/05 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| 1,3,5-Trimethylbenzene | ND | 0.5 | 0.1 |
| 2-Chlorotoluene | ND | 0.5 | 0.1 |
| 4-Chlorotoluene | ND | 0.5 | 0.07 |
| tert-Butylbenzene | ND | 0.5 | 0.08 |
| 1,2,4-Trimethylbenzene | ND | 0.5 | 0.1 |
| sec-Butylbenzene | ND | 0.5 | 0.08 |
| para-Isopropyl Toluene | ND | 0.5 | 0.04 |
| 1,3-Dichlorobenzene | ND | 0.5 | 0.1 |
| 1,4-Dichlorobenzene | ND | 0.5 | 0.2 |
| n-Butylbenzene | ND | 0.5 | 0.1 |
| 1,2-Dichlorobenzene | ND | 0.5 | 0.06 |
| 1,2-Dibromo-3-Chloropropane | ND | 2.0 | 0.1 |
| 1,2,4-Trichlorobenzene | ND | 0.5 | 0.2 |
| Hexachlorobutadiene | ND | 0.5 | 0.2 |
| Naphthalene | ND | 2.0 | 0.2 |
| 1,2,3-Trichlorobenzene | ND | 0.5 | 0.3 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 104 | 80-120 |
| 1,2-Dichloroethane-d4 | 112 | 80-122 |
| Toluene-d8 | 103 | 80-120 |
| Bromofluorobenzene | 103 | 80-124 |

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



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Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

## Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Type: | LCS | Diln Fac: | 1.000 |
| Lab ID: | QC306042 | Batch#: | 105078 |
| Matrix: | Water | Analyzed: | 08/23/05 |
| Units: | ug/L | | |

| Analyte | Spiked | Result | %REC | Limits |
|---|---|---|---|---|
| 1,1-Dichloroethene | 25.00 | 21.02 | 84 | 75-121 |
| Benzene | 25.00 | 23.43 | 94 | 80-120 |
| Trichloroethene | 25.00 | 24.82 | 99 | 78-120 |
| Toluene | 25.00 | 24.94 | 100 | 80-120 |
| Chlorobenzene | 25.00 | 25.05 | 100 | 80-120 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 105 | 80-120 |
| 1,2-Dichloroethane-d4 | 111 | 80-122 |
| Toluene-d8 | 104 | 80-120 |
| Bromofluorobenzene | 99 | 80-124 |

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Batch QC Report

## Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Type: | BLANK | Diln Fac: | 1.000 |
| Lab ID: | QC306045 | Batch#: | 105078 |
| Matrix: | Water | Analyzed: | 08/23/05 |
| Units: | ug/L | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Freon 12 | ND | 1.0 | 0.2 |
| Chloromethane | ND | 1.0 | 0.09 |
| Vinyl Chloride | ND | 0.5 | 0.2 |
| Bromomethane | ND | 1.0 | 0.2 |
| Chloroethane | ND | 1.0 | 0.1 |
| Ethanol | ND | 1,000 | 36 |
| Trichlorofluoromethane | ND | 1.0 | 0.1 |
| Isopropanol | ND | 100 | 1.1 |
| Acetone | ND | 10 | 0.5 |
| Freon 113 | ND | 5.0 | 0.09 |
| 1,1-Dichloroethene | ND | 0.5 | 0.09 |
| Methylene Chloride | ND | 10 | 0.2 |
| Carbon Disulfide | ND | 0.5 | 0.04 |
| MTBE | ND | 0.5 | 0.05 |
| trans-1,2-Dichloroethene | ND | 0.5 | 0.09 |
| Vinyl Acetate | ND | 10 | 0.1 |
| 1,1-Dichloroethane | ND | 0.5 | 0.06 |
| 2-Butanone | ND | 10 | 0.3 |
| cis-1,2-Dichloroethene | ND | 0.5 | 0.1 |
| 2,2-Dichloropropane | ND | 0.5 | 0.08 |
| Chloroform | ND | 0.5 | 0.04 |
| Bromochloromethane | ND | 0.5 | 0.2 |
| 1,1,1-Trichloroethane | ND | 0.5 | 0.04 |
| 1,1-Dichloropropene | ND | 0.5 | 0.05 |
| Carbon Tetrachloride | ND | 0.5 | 0.06 |
| 1,2-Dichloroethane | ND | 0.5 | 0.06 |
| Benzene | ND | 0.5 | 0.03 |
| Trichloroethene | ND | 0.5 | 0.09 |
| 1,2-Dichloropropane | ND | 0.5 | 0.1 |
| Bromodichloromethane | ND | 0.5 | 0.07 |
| Dibromomethane | ND | 0.5 | 0.1 |
| 4-Methyl-2-Pentanone | ND | 10 | 0.3 |
| cis-1,3-Dichloropropene | ND | 0.5 | 0.04 |
| Toluene | ND | 0.5 | 0.05 |
| trans-1,3-Dichloropropene | ND | 0.5 | 0.06 |
| 1,1,2-Trichloroethane | ND | 0.5 | 0.06 |
| 2-Hexanone | ND | 10 | 0.1 |
| 1,3-Dichloropropane | ND | 0.5 | 0.07 |
| Tetrachloroethene | ND | 0.5 | 0.09 |
| Dibromochloromethane | ND | 0.5 | 0.06 |
| 1,2-Dibromoethane | ND | 0.5 | 0.07 |
| Chlorobenzene | ND | 0.5 | 0.05 |
| 1,1,1,2-Tetrachloroethane | ND | 0.5 | 0.09 |
| Ethylbenzene | ND | 0.5 | 0.1 |
| m,p-Xylenes | ND | 0.5 | 0.2 |
| o-Xylene | ND | 0.5 | 0.1 |
| Styrene | ND | 0.5 | 0.06 |
| Bromoform | ND | 1.0 | 0.1 |
| Isopropylbenzene | ND | 0.5 | 0.1 |
| 1,1,2,2-Tetrachloroethane | ND | 0.5 | 0.06 |
| 1,2,3-Trichloropropane | ND | 0.5 | 0.2 |
| Propylbenzene | ND | 0.5 | 0.1 |
| Bromobenzene | ND | 0.5 | 0.09 |
| 1,3,5-Trimethylbenzene | ND | 0.5 | 0.1 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



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Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

## Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Type: | BLANK | Diln Fac: | 1.000 |
| Lab ID: | QC306045 | Batch#: | 105078 |
| Matrix: | Water | Analyzed: | 08/23/05 |
| Units: | ug/L | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| 2-Chlorotoluene | ND | 0.5 | 0.1 |
| 4-Chlorotoluene | ND | 0.5 | 0.07 |
| tert-Butylbenzene | ND | 0.5 | 0.08 |
| 1,2,4-Trimethylbenzene | ND | 0.5 | 0.1 |
| sec-Butylbenzene | ND | 0.5 | 0.08 |
| para-Isopropyl Toluene | ND | 0.5 | 0.04 |
| 1,3-Dichlorobenzene | ND | 0.5 | 0.1 |
| 1,4-Dichlorobenzene | ND | 0.5 | 0.2 |
| n-Butylbenzene | ND | 0.5 | 0.1 |
| 1,2-Dichlorobenzene | ND | 0.5 | 0.06 |
| 1,2-Dibromo-3-Chloropropane | ND | 2.0 | 0.1 |
| 1,2,4-Trichlorobenzene | ND | 0.5 | 0.2 |
| Hexachlorobutadiene | ND | 0.5 | 0.2 |
| Naphthalene | ND | 2.0 | 0.2 |
| 1,2,3-Trichlorobenzene | ND | 0.5 | 0.3 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 106 | 80-120 |
| 1,2-Dichloroethane-d4 | 111 | 80-122 |
| Toluene-d8 | 104 | 80-120 |
| Bromofluorobenzene | 102 | 80-124 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



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Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

## Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Matrix: | Water | Batch#: | 105118 |
| Units: | ug/L | Analyzed: | 08/24/05 |
| Diln Fac: | 1.000 | | |

Type: BS Lab ID: QC306222

| Analyte | Spiked | Result | %REC | Limits |
|---|---|---|---|---|
| 1,1-Dichloroethene | 25.00 | 22.84 | 91 | 75-121 |
| Benzene | 25.00 | 23.55 | 94 | 80-120 |
| Trichloroethene | 25.00 | 25.83 | 103 | 78-120 |
| Toluene | 25.00 | 25.27 | 101 | 80-120 |
| Chlorobenzene | 25.00 | 25.34 | 101 | 80-120 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 102 | 80-120 |
| 1,2-Dichloroethane-d4 | 110 | 80-122 |
| Toluene-d8 | 104 | 80-120 |
| Bromofluorobenzene | 99 | 80-124 |

Type: BSD Lab ID: QC306223

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 25.00 | 24.15 | 97 | 75-121 | 6 | 20 |
| Benzene | 25.00 | 24.45 | 98 | 80-120 | 4 | 20 |
| Trichloroethene | 25.00 | 26.80 | 107 | 78-120 | 4 | 20 |
| Toluene | 25.00 | 25.67 | 103 | 80-120 | 2 | 20 |
| Chlorobenzene | 25.00 | 25.74 | 103 | 80-120 | 2 | 20 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 104 | 80-120 |
| 1,2-Dichloroethane-d4 | 110 | 80-122 |
| Toluene-d8 | 102 | 80-120 |
| Bromofluorobenzene | 99 | 80-124 |

RPD= Relative Percent Difference



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Batch QC Report

## Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Type: | BLANK | Diln Fac: | 1.000 |
| Lab ID: | QC306224 | Batch#: | 105118 |
| Matrix: | Water | Analyzed: | 08/24/05 |
| Units: | ug/L | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Freon 12 | ND | 1.0 | 0.2 |
| Chloromethane | ND | 1.0 | 0.09 |
| Vinyl Chloride | ND | 0.5 | 0.2 |
| Bromomethane | ND | 1.0 | 0.2 |
| Chloroethane | ND | 1.0 | 0.1 |
| Ethanol | ND | 1,000 | 36 |
| Trichlorofluoromethane | ND | 1.0 | 0.1 |
| Isopropanol | ND | 100 | 1.1 |
| Acetone | ND | 10 | 0.5 |
| Freon 113 | ND | 5.0 | 0.09 |
| 1,1-Dichloroethene | ND | 0.5 | 0.09 |
| Methylene Chloride | ND | 10 | 0.2 |
| Carbon Disulfide | ND | 0.5 | 0.04 |
| MTBE | ND | 0.5 | 0.05 |
| trans-1,2-Dichloroethene | ND | 0.5 | 0.09 |
| Vinyl Acetate | ND | 10 | 0.1 |
| 1,1-Dichloroethane | ND | 0.5 | 0.06 |
| 2-Butanone | ND | 10 | 0.3 |
| cis-1,2-Dichloroethene | ND | 0.5 | 0.1 |
| 2,2-Dichloropropane | ND | 0.5 | 0.08 |
| Chloroform | 0.1 J | 0.5 | 0.04 |
| Bromochloromethane | ND | 0.5 | 0.2 |
| 1,1,1-Trichloroethane | ND | 0.5 | 0.04 |
| 1,1-Dichloropropene | ND | 0.5 | 0.05 |
| Carbon Tetrachloride | ND | 0.5 | 0.06 |
| 1,2-Dichloroethane | ND | 0.5 | 0.06 |
| Benzene | ND | 0.5 | 0.03 |
| Trichloroethene | ND | 0.5 | 0.09 |
| 1,2-Dichloropropane | ND | 0.5 | 0.1 |
| Bromodichloromethane | ND | 0.5 | 0.07 |
| Dibromomethane | ND | 0.5 | 0.1 |
| 4-Methyl-2-Pentanone | ND | 10 | 0.3 |
| cis-1,3-Dichloropropene | ND | 0.5 | 0.04 |
| Toluene | ND | 0.5 | 0.05 |
| trans-1,3-Dichloropropene | ND | 0.5 | 0.06 |
| 1,1,2-Trichloroethane | ND | 0.5 | 0.06 |
| 2-Hexanone | ND | 10 | 0.1 |
| 1,3-Dichloropropane | ND | 0.5 | 0.07 |
| Tetrachloroethene | ND | 0.5 | 0.09 |
| Dibromochloromethane | ND | 0.5 | 0.06 |
| 1,2-Dibromoethane | ND | 0.5 | 0.07 |
| Chlorobenzene | ND | 0.5 | 0.05 |
| 1,1,1,2-Tetrachloroethane | ND | 0.5 | 0.09 |
| Ethylbenzene | ND | 0.5 | 0.1 |
| m,p-Xylenes | ND | 0.5 | 0.2 |
| o-Xylene | ND | 0.5 | 0.1 |
| Styrene | ND | 0.5 | 0.06 |
| Bromoform | ND | 1.0 | 0.1 |
| Isopropylbenzene | ND | 0.5 | 0.1 |
| 1,1,2,2-Tetrachloroethane | ND | 0.5 | 0.06 |
| 1,2,3-Trichloropropane | ND | 0.5 | 0.2 |
| Propylbenzene | ND | 0.5 | 0.1 |
| Bromobenzene | ND | 0.5 | 0.09 |

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



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Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

## Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Type: | BLANK | Diln Fac: | 1.000 |
| Lab ID: | QC306224 | Batch#: | 105118 |
| Matrix: | Water | Analyzed: | 08/24/05 |
| Units: | ug/L | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| 1,3,5-Trimethylbenzene | ND | 0.5 | 0.1 |
| 2-Chlorotoluene | ND | 0.5 | 0.1 |
| 4-Chlorotoluene | ND | 0.5 | 0.07 |
| tert-Butylbenzene | ND | 0.5 | 0.08 |
| 1,2,4-Trimethylbenzene | ND | 0.5 | 0.1 |
| sec-Butylbenzene | ND | 0.5 | 0.08 |
| para-Isopropyl Toluene | ND | 0.5 | 0.04 |
| 1,3-Dichlorobenzene | ND | 0.5 | 0.1 |
| 1,4-Dichlorobenzene | ND | 0.5 | 0.2 |
| n-Butylbenzene | ND | 0.5 | 0.1 |
| 1,2-Dichlorobenzene | ND | 0.5 | 0.06 |
| 1,2-Dibromo-3-Chloropropane | ND | 2.0 | 0.1 |
| 1,2,4-Trichlorobenzene | 0.3 J | 0.5 | 0.2 |
| Hexachlorobutadiene | ND | 0.5 | 0.2 |
| Naphthalene | 0.3 J | 2.0 | 0.2 |
| 1,2,3-Trichlorobenzene | ND | 0.5 | 0.3 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 101 | 80-120 |
| 1,2-Dichloroethane-d4 | 110 | 80-122 |
| Toluene-d8 | 102 | 80-120 |
| Bromofluorobenzene | 105 | 80-124 |

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



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Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8270C |
| Field ID: | MW-4.1-081805 | Batch#: | 105054 |
| Lab ID: | 181361-001 | Sampled: | 08/18/05 |
| Matrix: | Water | Received: | 08/19/05 |
| Units: | ug/L | Prepared: | 08/22/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/25/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| N-Nitrosodimethylamine | ND | 9.6 | 1.5 |
| Phenol | ND | 9.6 | 1.1 |
| bis(2-Chloroethyl)ether | ND | 9.6 | 0.62 |
| 2-Chlorophenol | ND | 9.6 | 0.42 |
| 1,3-Dichlorobenzene | ND | 9.6 | 0.32 |
| 1,4-Dichlorobenzene | ND | 9.6 | 0.47 |
| Benzyl alcohol | ND | 9.6 | 0.56 |
| 1,2-Dichlorobenzene | ND | 9.6 | 0.43 |
| 2-Methylphenol | ND | 9.6 | 1.1 |
| bis(2-Chloroisopropyl) ether | ND | 9.6 | 0.80 |
| 4-Methylphenol | ND | 9.6 | 0.41 |
| N-Nitroso-di-n-propylamine | ND | 9.6 | 1.4 |
| Hexachloroethane | ND | 9.6 | 0.40 |
| Nitrobenzene | ND | 9.6 | 0.57 |
| Isophorone | ND | 9.6 | 0.37 |
| 2-Nitrophenol | ND | 19 | 1.6 |
| 2,4-Dimethylphenol | ND | 9.6 | 1.1 |
| Benzoic acid | ND | 48 | 20 |
| bis(2-Chloroethoxy)methane | ND | 9.6 | 0.55 |
| 2,4-Dichlorophenol | ND | 9.6 | 0.69 |
| 1,2,4-Trichlorobenzene | ND | 9.6 | 0.31 |
| Naphthalene | ND | 9.6 | 0.26 |
| 4-Chloroaniline | ND | 9.6 | 0.95 |
| Hexachlorobutadiene | ND | 9.6 | 0.35 |
| 4-Chloro-3-methylphenol | ND | 9.6 | 0.72 |
| 2-Methylnaphthalene | ND | 9.6 | 0.28 |
| Hexachlorocyclopentadiene | ND | 19 | 0.76 |
| 2,4,6-Trichlorophenol | ND | 9.6 | 0.75 |
| 2,4,5-Trichlorophenol | ND | 9.6 | 0.93 |
| 2-Chloronaphthalene | ND | 9.6 | 0.36 |
| 2-Nitroaniline | ND | 19 | 0.85 |
| Dimethylphthalate | ND | 9.6 | 0.24 |
| Acenaphthylene | ND | 9.6 | 0.43 |
| 2,6-Dinitrotoluene | ND | 9.6 | 0.75 |
| 3-Nitroaniline | ND | 19 | 0.70 |
| Acenaphthene | ND | 9.6 | 0.32 |
| 2,4-Dinitrophenol | ND | 19 | 5.1 |
| 4-Nitrophenol | ND | 19 | 1.2 |
| Dibenzofuran | ND | 9.6 | 0.42 |
| 2,4-Dinitrotoluene | ND | 9.6 | 0.23 |
| Diethylphthalate | ND | 9.6 | 0.34 |
| Fluorene | ND | 9.6 | 0.17 |
| 4-Chlorophenyl-phenylether | ND | 9.6 | 0.29 |
| 4-Nitroaniline | ND | 19 | 0.64 |
| 4,6-Dinitro-2-methylphenol | ND | 19 | 0.68 |
| N-Nitrosodiphenylamine | ND | 9.6 | 0.37 |
| Azobenzene | ND | 9.6 | 0.76 |
| 4-Bromophenyl-phenylether | ND | 9.6 | 0.35 |
| Hexachlorobenzene | ND | 9.6 | 0.71 |
| Pentachlorophenol | ND | 19 | 0.72 |
| Phenanthrene | ND | 9.6 | 0.41 |
| Anthracene | ND | 9.6 | 0.29 |
| Di-n-butylphthalate | ND | 9.6 | 0.43 |

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



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Curtis & Tompkins, Ltd.
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# Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8270C |
| Field ID: | MW-4.1-081805 | Batch#: | 105054 |
| Lab ID: | 181361-001 | Sampled: | 08/18/05 |
| Matrix: | Water | Received: | 08/19/05 |
| Units: | ug/L | Prepared: | 08/22/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/25/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Fluoranthene | ND | 9.6 | 0.23 |
| Pyrene | ND | 9.6 | 0.38 |
| Butylbenzylphthalate | ND | 9.6 | 0.36 |
| 3,3'-Dichlorobenzidine | ND | 19 | 0.43 |
| Benzo(a)anthracene | ND | 9.6 | 0.59 |
| Chrysene | ND | 9.6 | 0.27 |
| bis(2-Ethylhexyl)phthalate | 1.3 J | 9.6 | 0.51 |
| Di-n-octylphthalate | ND | 9.6 | 0.17 |
| Benzo(b)fluoranthene | ND | 9.6 | 0.15 |
| Benzo(k)fluoranthene | ND | 9.6 | 0.40 |
| Benzo(a)pyrene | ND | 9.6 | 0.14 |
| Indeno(1,2,3-cd)pyrene | ND | 9.6 | 0.40 |
| Dibenz(a,h)anthracene | ND | 9.6 | 0.24 |
| Benzo(g,h,i)perylene | ND | 9.6 | 0.54 |

| Surrogate | %REC | Limits |
|---|---|---|
| 2-Fluorophenol | 66 | 41-120 |
| Phenol-d5 | 68 | 41-120 |
| 2,4,6-Tribromophenol | 54 | 38-120 |
| Nitrobenzene-d5 | 81 | 47-120 |
| 2-Fluorobiphenyl | 85 | 44-120 |
| Terphenyl-d14 | 64 | 16-120 |

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



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Curtis & Tompkins, Ltd.
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# Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8270C |
| Field ID: | MW-4.2-081805 | Batch#: | 105054 |
| Lab ID: | 181361-002 | Sampled: | 08/18/05 |
| Matrix: | Water | Received: | 08/19/05 |
| Units: | ug/L | Prepared: | 08/22/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/24/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| N-Nitrosodimethylamine | ND | 9.6 | 1.5 |
| Phenol | ND | 9.6 | 1.1 |
| bis(2-Chloroethyl)ether | ND | 9.6 | 0.62 |
| 2-Chlorophenol | ND | 9.6 | 0.42 |
| 1,3-Dichlorobenzene | ND | 9.6 | 0.32 |
| 1,4-Dichlorobenzene | ND | 9.6 | 0.47 |
| Benzyl alcohol | ND | 9.6 | 0.56 |
| 1,2-Dichlorobenzene | ND | 9.6 | 0.43 |
| 2-Methylphenol | ND | 9.6 | 1.1 |
| bis(2-Chloroisopropyl) ether | ND | 9.6 | 0.80 |
| 4-Methylphenol | ND | 9.6 | 0.41 |
| N-Nitroso-di-n-propylamine | ND | 9.6 | 1.4 |
| Hexachloroethane | ND | 9.6 | 0.40 |
| Nitrobenzene | ND | 9.6 | 0.57 |
| Isophorone | ND | 9.6 | 0.37 |
| 2-Nitrophenol | ND | 19 | 1.6 |
| 2,4-Dimethylphenol | ND | 9.6 | 1.1 |
| Benzoic acid | ND | 48 | 20 |
| bis(2-Chloroethoxy)methane | ND | 9.6 | 0.55 |
| 2,4-Dichlorophenol | ND | 9.6 | 0.69 |
| 1,2,4-Trichlorobenzene | ND | 9.6 | 0.31 |
| Naphthalene | ND | 9.6 | 0.26 |
| 4-Chloroaniline | ND | 9.6 | 0.95 |
| Hexachlorobutadiene | ND | 9.6 | 0.35 |
| 4-Chloro-3-methylphenol | ND | 9.6 | 0.72 |
| 2-Methylnaphthalene | ND | 9.6 | 0.28 |
| Hexachlorocyclopentadiene | ND | 19 | 0.76 |
| 2,4,6-Trichlorophenol | ND | 9.6 | 0.75 |
| 2,4,5-Trichlorophenol | ND | 9.6 | 0.93 |
| 2-Chloronaphthalene | ND | 9.6 | 0.36 |
| 2-Nitroaniline | ND | 19 | 0.85 |
| Dimethylphthalate | ND | 9.6 | 0.24 |
| Acenaphthylene | ND | 9.6 | 0.43 |
| 2,6-Dinitrotoluene | ND | 9.6 | 0.75 |
| 3-Nitroaniline | ND | 19 | 0.70 |
| Acenaphthene | ND | 9.6 | 0.32 |
| 2,4-Dinitrophenol | ND | 19 | 5.1 |
| 4-Nitrophenol | ND | 19 | 1.2 |
| Dibenzofuran | ND | 9.6 | 0.42 |
| 2,4-Dinitrotoluene | ND | 9.6 | 0.23 |
| Diethylphthalate | ND | 9.6 | 0.34 |
| Fluorene | ND | 9.6 | 0.17 |
| 4-Chlorophenyl-phenylether | ND | 9.6 | 0.29 |
| 4-Nitroaniline | ND | 19 | 0.64 |
| 4,6-Dinitro-2-methylphenol | ND | 19 | 0.68 |
| N-Nitrosodiphenylamine | ND | 9.6 | 0.37 |
| Azobenzene | ND | 9.6 | 0.76 |
| 4-Bromophenyl-phenylether | ND | 9.6 | 0.35 |
| Hexachlorobenzene | ND | 9.6 | 0.71 |
| Pentachlorophenol | ND | 19 | 0.72 |
| Phenanthrene | ND | 9.6 | 0.41 |
| Anthracene | ND | 9.6 | 0.29 |
| Di-n-butylphthalate | ND | 9.6 | 0.43 |
| Fluoranthene | ND | 9.6 | 0.23 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



32.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8270C |
| Field ID: | MW-4.2-081805 | Batch#: | 105054 |
| Lab ID: | 181361-002 | Sampled: | 08/18/05 |
| Matrix: | Water | Received: | 08/19/05 |
| Units: | ug/L | Prepared: | 08/22/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/24/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Pyrene | ND | 9.6 | 0.38 |
| Butylbenzylphthalate | ND | 9.6 | 0.36 |
| 3,3'-Dichlorobenzidine | ND | 19 | 0.43 |
| Benzo(a)anthracene | ND | 9.6 | 0.59 |
| Chrysene | ND | 9.6 | 0.27 |
| bis(2-Ethylhexyl)phthalate | ND | 9.6 | 0.51 |
| Di-n-octylphthalate | ND | 9.6 | 0.17 |
| Benzo(b)fluoranthene | ND | 9.6 | 0.15 |
| Benzo(k)fluoranthene | ND | 9.6 | 0.40 |
| Benzo(a)pyrene | ND | 9.6 | 0.14 |
| Indeno(1,2,3-cd)pyrene | ND | 9.6 | 0.40 |
| Dibenz(a,h)anthracene | ND | 9.6 | 0.24 |
| Benzo(g,h,i)perylene | ND | 9.6 | 0.54 |

| Surrogate | %REC | Limits |
|---|---|---|
| 2-Fluorophenol | 61 | 41-120 |
| Phenol-d5 | 66 | 41-120 |
| 2,4,6-Tribromophenol | 83 | 38-120 |
| Nitrobenzene-d5 | 76 | 47-120 |
| 2-Fluorobiphenyl | 80 | 44-120 |
| Terphenyl-d14 | 78 | 16-120 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



32.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8270C |
| Field ID: | MW-4.3-081705 | Batch#: | 105054 |
| Lab ID: | 181361-003 | Sampled: | 08/17/05 |
| Matrix: | Water | Received: | 08/19/05 |
| Units: | ug/L | Prepared: | 08/22/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/26/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| N-Nitrosodimethylamine | ND | 9.7 | 0.34 |
| Phenol | ND | 9.7 | 0.87 |
| bis(2-Chloroethyl)ether | ND | 9.7 | 0.52 |
| 2-Chlorophenol | ND | 9.7 | 0.87 |
| 1,3-Dichlorobenzene | ND | 9.7 | 0.54 |
| 1,4-Dichlorobenzene | ND | 9.7 | 0.53 |
| Benzyl alcohol | ND | 9.7 | 0.47 |
| 1,2-Dichlorobenzene | ND | 9.7 | 0.52 |
| 2-Methylphenol | ND | 9.7 | 1.0 |
| bis(2-Chloroisopropyl) ether | ND | 9.7 | 0.42 |
| 4-Methylphenol | ND | 9.7 | 1.0 |
| N-Nitroso-di-n-propylamine | ND | 9.7 | 0.49 |
| Hexachloroethane | ND | 9.7 | 0.45 |
| Nitrobenzene | ND | 9.7 | 0.46 |
| Isophorone | ND | 9.7 | 0.48 |
| 2-Nitrophenol | ND | 19 | 1.1 |
| 2,4-Dimethylphenol | ND | 9.7 | 0.94 |
| Benzoic acid | ND | 49 | 13 |
| bis(2-Chloroethoxy)methane | ND | 9.7 | 0.55 |
| 2,4-Dichlorophenol | ND | 9.7 | 0.93 |
| 1,2,4-Trichlorobenzene | ND | 9.7 | 0.49 |
| Naphthalene | ND | 9.7 | 0.53 |
| 4-Chloroaniline | ND | 9.7 | 0.57 |
| Hexachlorobutadiene | ND | 9.7 | 0.38 |
| 4-Chloro-3-methylphenol | ND | 9.7 | 0.97 |
| 2-Methylnaphthalene | ND | 9.7 | 0.63 |
| Hexachlorocyclopentadiene | ND | 19 | 1.0 |
| 2,4,6-Trichlorophenol | ND | 9.7 | 0.85 |
| 2,4,5-Trichlorophenol | ND | 9.7 | 0.76 |
| 2-Chloronaphthalene | ND | 9.7 | 0.44 |
| 2-Nitroaniline | ND | 19 | 0.42 |
| Dimethylphthalate | ND | 9.7 | 0.44 |
| Acenaphthylene | ND | 9.7 | 0.37 |
| 2,6-Dinitrotoluene | ND | 9.7 | 0.42 |
| 3-Nitroaniline | ND | 19 | 0.49 |
| Acenaphthene | ND | 9.7 | 0.42 |
| 2,4-Dinitrophenol | ND | 19 | 3.9 |
| 4-Nitrophenol | ND | 19 | 0.57 |
| Dibenzofuran | ND | 9.7 | 0.62 |
| 2,4-Dinitrotoluene | ND | 9.7 | 0.41 |
| Diethylphthalate | ND | 9.7 | 0.42 |
| Fluorene | ND | 9.7 | 0.46 |
| 4-Chlorophenyl-phenylether | ND | 9.7 | 0.44 |
| 4-Nitroaniline | ND | 19 | 0.58 |
| 4,6-Dinitro-2-methylphenol | ND | 19 | 0.63 |
| N-Nitrosodiphenylamine | ND | 9.7 | 0.49 |
| Azobenzene | ND | 9.7 | 0.50 |
| 4-Bromophenyl-phenylether | ND | 9.7 | 0.41 |
| Hexachlorobenzene | ND | 9.7 | 0.43 |
| Pentachlorophenol | ND | 19 | 0.52 |
| Phenanthrene | ND | 9.7 | 0.54 |
| Anthracene | ND | 9.7 | 0.45 |
| Di-n-butylphthalate | ND | 9.7 | 0.51 |

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



33.0

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# Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8270C |
| Field ID: | MW-4.3-081705 | Batch#: | 105054 |
| Lab ID: | 181361-003 | Sampled: | 08/17/05 |
| Matrix: | Water | Received: | 08/19/05 |
| Units: | ug/L | Prepared: | 08/22/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/26/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Fluoranthene | ND | 9.7 | 0.52 |
| Pyrene | ND | 9.7 | 0.54 |
| Butylbenzylphthalate | ND | 9.7 | 0.48 |
| 3,3'-Dichlorobenzidine | ND | 19 | 0.52 |
| Benzo(a)anthracene | ND | 9.7 | 0.52 |
| Chrysene | ND | 9.7 | 0.45 |
| bis(2-Ethylhexyl)phthalate | 1.2 J | 9.7 | 0.53 |
| Di-n-octylphthalate | ND | 9.7 | 0.41 |
| Benzo(b)fluoranthene | ND | 9.7 | 0.36 |
| Benzo(k)fluoranthene | ND | 9.7 | 0.49 |
| Benzo(a)pyrene | ND | 9.7 | 0.42 |
| Indeno(1,2,3-cd)pyrene | ND | 9.7 | 0.52 |
| Dibenz(a,h)anthracene | ND | 9.7 | 0.54 |
| Benzo(g,h,i)perylene | ND | 9.7 | 0.50 |

| Surrogate | %REC | Limits |
|---|---|---|
| 2-Fluorophenol | 68 | 41-120 |
| Phenol-d5 | 62 | 41-120 |
| 2,4,6-Tribromophenol | 67 | 38-120 |
| Nitrobenzene-d5 | 79 | 47-120 |
| 2-Fluorobiphenyl | 80 | 44-120 |
| Terphenyl-d14 | 70 | 16-120 |

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



33.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8270C |
| Field ID: | MW-4.4-081705 | Batch#: | 105054 |
| Lab ID: | 181361-004 | Sampled: | 08/17/05 |
| Matrix: | Water | Received: | 08/19/05 |
| Units: | ug/L | Prepared: | 08/22/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/25/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| N-Nitrosodimethylamine | ND | 9.6 | 1.5 |
| Phenol | ND | 9.6 | 1.1 |
| bis(2-Chloroethyl)ether | ND | 9.6 | 0.62 |
| 2-Chlorophenol | ND | 9.6 | 0.42 |
| 1,3-Dichlorobenzene | ND | 9.6 | 0.32 |
| 1,4-Dichlorobenzene | ND | 9.6 | 0.47 |
| Benzyl alcohol | ND | 9.6 | 0.56 |
| 1,2-Dichlorobenzene | ND | 9.6 | 0.43 |
| 2-Methylphenol | ND | 9.6 | 1.1 |
| bis(2-Chloroisopropyl) ether | ND | 9.6 | 0.80 |
| 4-Methylphenol | ND | 9.6 | 0.41 |
| N-Nitroso-di-n-propylamine | ND | 9.6 | 1.4 |
| Hexachloroethane | ND | 9.6 | 0.40 |
| Nitrobenzene | ND | 9.6 | 0.57 |
| Isophorone | ND | 9.6 | 0.37 |
| 2-Nitrophenol | ND | 19 | 1.6 |
| 2,4-Dimethylphenol | ND | 9.6 | 1.1 |
| Benzoic acid | ND | 48 | 20 |
| bis(2-Chloroethoxy)methane | ND | 9.6 | 0.55 |
| 2,4-Dichlorophenol | ND | 9.6 | 0.69 |
| 1,2,4-Trichlorobenzene | ND | 9.6 | 0.31 |
| Naphthalene | ND | 9.6 | 0.26 |
| 4-Chloroaniline | ND | 9.6 | 0.95 |
| Hexachlorobutadiene | ND | 9.6 | 0.35 |
| 4-Chloro-3-methylphenol | ND | 9.6 | 0.72 |
| 2-Methylnaphthalene | ND | 9.6 | 0.28 |
| Hexachlorocyclopentadiene | ND | 19 | 0.76 |
| 2,4,6-Trichlorophenol | ND | 9.6 | 0.75 |
| 2,4,5-Trichlorophenol | ND | 9.6 | 0.93 |
| 2-Chloronaphthalene | ND | 9.6 | 0.36 |
| 2-Nitroaniline | ND | 19 | 0.85 |
| Dimethylphthalate | ND | 9.6 | 0.24 |
| Acenaphthylene | ND | 9.6 | 0.43 |
| 2,6-Dinitrotoluene | ND | 9.6 | 0.75 |
| 3-Nitroaniline | ND | 19 | 0.70 |
| Acenaphthene | ND | 9.6 | 0.32 |
| 2,4-Dinitrophenol | ND | 19 | 5.1 |
| 4-Nitrophenol | ND | 19 | 1.2 |
| Dibenzofuran | ND | 9.6 | 0.42 |
| 2,4-Dinitrotoluene | ND | 9.6 | 0.23 |
| Diethylphthalate | ND | 9.6 | 0.34 |
| Fluorene | ND | 9.6 | 0.17 |
| 4-Chlorophenyl-phenylether | ND | 9.6 | 0.29 |
| 4-Nitroaniline | ND | 19 | 0.64 |
| 4,6-Dinitro-2-methylphenol | ND | 19 | 0.68 |
| N-Nitrosodiphenylamine | ND | 9.6 | 0.37 |
| Azobenzene | ND | 9.6 | 0.76 |
| 4-Bromophenyl-phenylether | ND | 9.6 | 0.35 |
| Hexachlorobenzene | ND | 9.6 | 0.71 |
| Pentachlorophenol | ND | 19 | 0.72 |

*= Value outside of QC limits; see narrative
J= Estimated value
b= See narrative
ND= Not Detected
RL= Reporting Limit
>LR= Response exceeds instrument's linear range
MDL= Method Detection Limit



34.0

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# Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8270C |
| Field ID: | MW-4.4-081705 | Batch#: | 105054 |
| Lab ID: | 181361-004 | Sampled: | 08/17/05 |
| Matrix: | Water | Received: | 08/19/05 |
| Units: | ug/L | Prepared: | 08/22/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/25/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Phenanthrene | ND | 9.6 | 0.41 |
| Anthracene | ND | 9.6 | 0.29 |
| Di-n-butylphthalate | ND | 9.6 | 0.43 |
| Fluoranthene | ND | 9.6 | 0.23 |
| Pyrene | ND | 9.6 | 0.38 |
| Butylbenzylphthalate | ND | 9.6 | 0.36 |
| 3,3'-Dichlorobenzidine | ND | 19 | 0.43 |
| Benzo(a)anthracene | ND | 9.6 | 0.59 |
| Chrysene | ND | 9.6 | 0.27 |
| bis(2-Ethylhexyl)phthalate | 1.9 J | 9.6 | 0.51 |
| Di-n-octylphthalate | ND | 9.6 | 0.17 |
| Benzo(b)fluoranthene | ND | 9.6 | 0.15 |
| Benzo(k)fluoranthene | ND | 9.6 | 0.40 |
| Benzo(a)pyrene | ND | 9.6 | 0.14 |
| Indeno(1,2,3-cd)pyrene | ND | 9.6 | 0.40 |
| Dibenz(a,h)anthracene | ND | 9.6 | 0.24 |
| Benzo(g,h,i)perylene | ND | 9.6 | 0.54 |

| Surrogate | %REC | Limits |
|---|---|---|
| 2-Fluorophenol | 68 | 41-120 |
| Phenol-d5 | 0 * | 41-120 |
| 2,4,6-Tribromophenol | 175 * | >LR b 38-120 |
| Nitrobenzene-d5 | 85 | 47-120 |
| 2-Fluorobiphenyl | 186 * | 44-120 |
| Terphenyl-d14 | 74 | 16-120 |

*= Value outside of QC limits; see narrative
J= Estimated value
b= See narrative
ND= Not Detected
RL= Reporting Limit
>LR= Response exceeds instrument's linear range
MDL= Method Detection Limit



34.0

Curtis & Tompkins, Ltd.
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# Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8270C |
| Field ID: | MW-5.8-081705 | Batch#: | 105054 |
| Lab ID: | 181361-005 | Sampled: | 08/17/05 |
| Matrix: | Water | Received: | 08/19/05 |
| Units: | ug/L | Prepared: | 08/22/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/25/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| N-Nitrosodimethylamine | ND | 9.6 | 1.5 |
| Phenol | ND | 9.6 | 1.1 |
| bis(2-Chloroethyl)ether | ND | 9.6 | 0.62 |
| 2-Chlorophenol | ND | 9.6 | 0.42 |
| 1,3-Dichlorobenzene | ND | 9.6 | 0.32 |
| 1,4-Dichlorobenzene | ND | 9.6 | 0.47 |
| Benzyl alcohol | ND | 9.6 | 0.56 |
| 1,2-Dichlorobenzene | ND | 9.6 | 0.43 |
| 2-Methylphenol | ND | 9.6 | 1.1 |
| bis(2-Chloroisopropyl) ether | ND | 9.6 | 0.80 |
| 4-Methylphenol | ND | 9.6 | 0.41 |
| N-Nitroso-di-n-propylamine | ND | 9.6 | 1.4 |
| Hexachloroethane | ND | 9.6 | 0.40 |
| Nitrobenzene | ND | 9.6 | 0.57 |
| Isophorone | ND | 9.6 | 0.37 |
| 2-Nitrophenol | ND | 19 | 1.6 |
| 2,4-Dimethylphenol | ND | 9.6 | 1.1 |
| Benzoic acid | ND | 48 | 20 |
| bis(2-Chloroethoxy)methane | ND | 9.6 | 0.55 |
| 2,4-Dichlorophenol | ND | 9.6 | 0.69 |
| 1,2,4-Trichlorobenzene | ND | 9.6 | 0.31 |
| Naphthalene | ND | 9.6 | 0.26 |
| 4-Chloroaniline | ND | 9.6 | 0.95 |
| Hexachlorobutadiene | ND | 9.6 | 0.35 |
| 4-Chloro-3-methylphenol | ND | 9.6 | 0.72 |
| 2-Methylnaphthalene | ND | 9.6 | 0.28 |
| Hexachlorocyclopentadiene | ND | 19 | 0.76 |
| 2,4,6-Trichlorophenol | ND | 9.6 | 0.75 |
| 2,4,5-Trichlorophenol | ND | 9.6 | 0.93 |
| 2-Chloronaphthalene | ND | 9.6 | 0.36 |
| 2-Nitroaniline | ND | 19 | 0.85 |
| Dimethylphthalate | ND | 9.6 | 0.24 |
| Acenaphthylene | ND | 9.6 | 0.43 |
| 2,6-Dinitrotoluene | ND | 9.6 | 0.75 |
| 3-Nitroaniline | ND | 19 | 0.70 |
| Acenaphthene | ND | 9.6 | 0.32 |
| 2,4-Dinitrophenol | ND | 19 | 5.1 |
| 4-Nitrophenol | ND | 19 | 1.2 |
| Dibenzofuran | ND | 9.6 | 0.42 |
| 2,4-Dinitrotoluene | ND | 9.6 | 0.23 |
| Diethylphthalate | ND | 9.6 | 0.34 |
| Fluorene | ND | 9.6 | 0.17 |
| 4-Chlorophenyl-phenylether | ND | 9.6 | 0.29 |
| 4-Nitroaniline | ND | 19 | 0.64 |
| 4,6-Dinitro-2-methylphenol | ND | 19 | 0.68 |
| N-Nitrosodiphenylamine | ND | 9.6 | 0.37 |
| Azobenzene | ND | 9.6 | 0.76 |
| 4-Bromophenyl-phenylether | ND | 9.6 | 0.35 |
| Hexachlorobenzene | ND | 9.6 | 0.71 |
| Pentachlorophenol | ND | 19 | 0.72 |
| Phenanthrene | ND | 9.6 | 0.41 |
| Anthracene | ND | 9.6 | 0.29 |
| Di-n-butylphthalate | ND | 9.6 | 0.43 |
| Fluoranthene | ND | 9.6 | 0.23 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



35.0

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# Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8270C |
| Field ID: | MW-5.8-081705 | Batch#: | 105054 |
| Lab ID: | 181361-005 | Sampled: | 08/17/05 |
| Matrix: | Water | Received: | 08/19/05 |
| Units: | ug/L | Prepared: | 08/22/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/25/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Pyrene | ND | 9.6 | 0.38 |
| Butylbenzylphthalate | ND | 9.6 | 0.36 |
| 3,3'-Dichlorobenzidine | ND | 19 | 0.43 |
| Benzo(a)anthracene | ND | 9.6 | 0.59 |
| Chrysene | ND | 9.6 | 0.27 |
| bis(2-Ethylhexyl)phthalate | ND | 9.6 | 0.51 |
| Di-n-octylphthalate | ND | 9.6 | 0.17 |
| Benzo(b)fluoranthene | ND | 9.6 | 0.15 |
| Benzo(k)fluoranthene | ND | 9.6 | 0.40 |
| Benzo(a)pyrene | ND | 9.6 | 0.14 |
| Indeno(1,2,3-cd)pyrene | ND | 9.6 | 0.40 |
| Dibenz(a,h)anthracene | ND | 9.6 | 0.24 |
| Benzo(g,h,i)perylene | ND | 9.6 | 0.54 |

| Surrogate | %REC | Limits |
|---|---|---|
| 2-Fluorophenol | 62 | 41-120 |
| Phenol-d5 | 64 | 41-120 |
| 2,4,6-Tribromophenol | 44 | 38-120 |
| Nitrobenzene-d5 | 74 | 47-120 |
| 2-Fluorobiphenyl | 79 | 44-120 |
| Terphenyl-d14 | 74 | 16-120 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



35.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8270C |
| Field ID: | MW-5.9-081805 | Batch#: | 105054 |
| Lab ID: | 181361-006 | Sampled: | 08/18/05 |
| Matrix: | Water | Received: | 08/19/05 |
| Units: | ug/L | Prepared: | 08/22/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/25/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| N-Nitrosodimethylamine | ND | 9.7 | 1.5 |
| Phenol | ND | 9.7 | 1.1 |
| bis(2-Chloroethyl)ether | ND | 9.7 | 0.63 |
| 2-Chlorophenol | ND | 9.7 | 0.43 |
| 1,3-Dichlorobenzene | ND | 9.7 | 0.32 |
| 1,4-Dichlorobenzene | ND | 9.7 | 0.47 |
| Benzyl alcohol | ND | 9.7 | 0.57 |
| 1,2-Dichlorobenzene | ND | 9.7 | 0.44 |
| 2-Methylphenol | ND | 9.7 | 1.1 |
| bis(2-Chloroisopropyl) ether | ND | 9.7 | 0.81 |
| 4-Methylphenol | ND | 9.7 | 0.42 |
| N-Nitroso-di-n-propylamine | ND | 9.7 | 1.4 |
| Hexachloroethane | ND | 9.7 | 0.40 |
| Nitrobenzene | ND | 9.7 | 0.57 |
| Isophorone | ND | 9.7 | 0.37 |
| 2-Nitrophenol | ND | 19 | 1.6 |
| 2,4-Dimethylphenol | ND | 9.7 | 1.2 |
| Benzoic acid | ND | 49 | 20 |
| bis(2-Chloroethoxy)methane | ND | 9.7 | 0.56 |
| 2,4-Dichlorophenol | ND | 9.7 | 0.70 |
| 1,2,4-Trichlorobenzene | ND | 9.7 | 0.31 |
| Naphthalene | ND | 9.7 | 0.26 |
| 4-Chloroaniline | ND | 9.7 | 0.96 |
| Hexachlorobutadiene | ND | 9.7 | 0.36 |
| 4-Chloro-3-methylphenol | ND | 9.7 | 0.72 |
| 2-Methylnaphthalene | ND | 9.7 | 0.28 |
| Hexachlorocyclopentadiene | ND | 19 | 0.76 |
| 2,4,6-Trichlorophenol | ND | 9.7 | 0.76 |
| 2,4,5-Trichlorophenol | ND | 9.7 | 0.94 |
| 2-Chloronaphthalene | ND | 9.7 | 0.37 |
| 2-Nitroaniline | ND | 19 | 0.86 |
| Dimethylphthalate | ND | 9.7 | 0.24 |
| Acenaphthylene | ND | 9.7 | 0.44 |
| 2,6-Dinitrotoluene | ND | 9.7 | 0.75 |
| 3-Nitroaniline | ND | 19 | 0.71 |
| Acenaphthene | ND | 9.7 | 0.32 |
| 2,4-Dinitrophenol | ND | 19 | 5.1 |
| 4-Nitrophenol | ND | 19 | 1.2 |
| Dibenzofuran | ND | 9.7 | 0.43 |
| 2,4-Dinitrotoluene | ND | 9.7 | 0.23 |
| Diethylphthalate | ND | 9.7 | 0.35 |
| Fluorene | ND | 9.7 | 0.17 |
| 4-Chlorophenyl-phenylether | ND | 9.7 | 0.29 |
| 4-Nitroaniline | ND | 19 | 0.64 |
| 4,6-Dinitro-2-methylphenol | ND | 19 | 0.69 |
| N-Nitrosodiphenylamine | ND | 9.7 | 0.37 |
| Azobenzene | ND | 9.7 | 0.76 |
| 4-Bromophenyl-phenylether | ND | 9.7 | 0.35 |
| Hexachlorobenzene | ND | 9.7 | 0.71 |
| Pentachlorophenol | ND | 19 | 0.73 |
| Phenanthrene | ND | 9.7 | 0.41 |
| Anthracene | ND | 9.7 | 0.29 |
| Di-n-butylphthalate | ND | 9.7 | 0.44 |

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



36.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8270C |
| Field ID: | MW-5.9-081805 | Batch#: | 105054 |
| Lab ID: | 181361-006 | Sampled: | 08/18/05 |
| Matrix: | Water | Received: | 08/19/05 |
| Units: | ug/L | Prepared: | 08/22/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/25/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Fluoranthene | ND | 9.7 | 0.23 |
| Pyrene | ND | 9.7 | 0.39 |
| Butylbenzylphthalate | ND | 9.7 | 0.37 |
| 3,3'-Dichlorobenzidine | ND | 19 | 0.43 |
| Benzo(a)anthracene | ND | 9.7 | 0.59 |
| Chrysene | ND | 9.7 | 0.27 |
| bis(2-Ethylhexyl)phthalate | 0.72 J | 9.7 | 0.52 |
| Di-n-octylphthalate | ND | 9.7 | 0.18 |
| Benzo(b)fluoranthene | ND | 9.7 | 0.15 |
| Benzo(k)fluoranthene | ND | 9.7 | 0.40 |
| Benzo(a)pyrene | ND | 9.7 | 0.15 |
| Indeno(1,2,3-cd)pyrene | ND | 9.7 | 0.41 |
| Dibenz(a,h)anthracene | ND | 9.7 | 0.24 |
| Benzo(g,h,i)perylene | ND | 9.7 | 0.55 |

| Surrogate | %REC | Limits |
|---|---|---|
| 2-Fluorophenol | 70 | 41-120 |
| Phenol-d5 | 75 | 41-120 |
| 2,4,6-Tribromophenol | 86 | 38-120 |
| Nitrobenzene-d5 | 85 | 47-120 |
| 2-Fluorobiphenyl | 91 | 44-120 |
| Terphenyl-d14 | 83 | 16-120 |

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



36.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8270C |
| Field ID: | MW-7.1-081805 | Batch#: | 105054 |
| Lab ID: | 181361-007 | Sampled: | 08/18/05 |
| Matrix: | Water | Received: | 08/19/05 |
| Units: | ug/L | Prepared: | 08/22/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/25/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| N-Nitrosodimethylamine | ND | 9.6 | 1.5 |
| Phenol | ND | 9.6 | 1.1 |
| bis(2-Chloroethyl)ether | ND | 9.6 | 0.62 |
| 2-Chlorophenol | ND | 9.6 | 0.42 |
| 1,3-Dichlorobenzene | ND | 9.6 | 0.32 |
| 1,4-Dichlorobenzene | ND | 9.6 | 0.47 |
| Benzyl alcohol | ND | 9.6 | 0.56 |
| 1,2-Dichlorobenzene | ND | 9.6 | 0.43 |
| 2-Methylphenol | ND | 9.6 | 1.1 |
| bis(2-Chloroisopropyl) ether | ND | 9.6 | 0.80 |
| 4-Methylphenol | ND | 9.6 | 0.41 |
| N-Nitroso-di-n-propylamine | ND | 9.6 | 1.4 |
| Hexachloroethane | ND | 9.6 | 0.40 |
| Nitrobenzene | ND | 9.6 | 0.57 |
| Isophorone | ND | 9.6 | 0.37 |
| 2-Nitrophenol | ND | 19 | 1.6 |
| 2,4-Dimethylphenol | ND | 9.6 | 1.1 |
| Benzoic acid | ND | 48 | 20 |
| bis(2-Chloroethoxy)methane | ND | 9.6 | 0.55 |
| 2,4-Dichlorophenol | ND | 9.6 | 0.69 |
| 1,2,4-Trichlorobenzene | ND | 9.6 | 0.31 |
| Naphthalene | ND | 9.6 | 0.26 |
| 4-Chloroaniline | ND | 9.6 | 0.95 |
| Hexachlorobutadiene | ND | 9.6 | 0.35 |
| 4-Chloro-3-methylphenol | ND | 9.6 | 0.72 |
| 2-Methylnaphthalene | ND | 9.6 | 0.28 |
| Hexachlorocyclopentadiene | ND | 19 | 0.76 |
| 2,4,6-Trichlorophenol | ND | 9.6 | 0.75 |
| 2,4,5-Trichlorophenol | ND | 9.6 | 0.93 |
| 2-Chloronaphthalene | ND | 9.6 | 0.36 |
| 2-Nitroaniline | ND | 19 | 0.85 |
| Dimethylphthalate | ND | 9.6 | 0.24 |
| Acenaphthylene | ND | 9.6 | 0.43 |
| 2,6-Dinitrotoluene | ND | 9.6 | 0.75 |
| 3-Nitroaniline | ND | 19 | 0.70 |
| Acenaphthene | ND | 9.6 | 0.32 |
| 2,4-Dinitrophenol | ND | 19 | 5.1 |
| 4-Nitrophenol | ND | 19 | 1.2 |
| Dibenzofuran | ND | 9.6 | 0.42 |
| 2,4-Dinitrotoluene | ND | 9.6 | 0.23 |
| Diethylphthalate | ND | 9.6 | 0.34 |
| Fluorene | ND | 9.6 | 0.17 |
| 4-Chlorophenyl-phenylether | ND | 9.6 | 0.29 |
| 4-Nitroaniline | ND | 19 | 0.64 |
| 4,6-Dinitro-2-methylphenol | ND | 19 | 0.68 |
| N-Nitrosodiphenylamine | ND | 9.6 | 0.37 |
| Azobenzene | ND | 9.6 | 0.76 |
| 4-Bromophenyl-phenylether | ND | 9.6 | 0.35 |
| Hexachlorobenzene | ND | 9.6 | 0.71 |
| Pentachlorophenol | ND | 19 | 0.72 |
| Phenanthrene | ND | 9.6 | 0.41 |
| Anthracene | ND | 9.6 | 0.29 |
| Di-n-butylphthalate | ND | 9.6 | 0.43 |

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



37.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8270C |
| Field ID: | MW-7.1-081805 | Batch#: | 105054 |
| Lab ID: | 181361-007 | Sampled: | 08/18/05 |
| Matrix: | Water | Received: | 08/19/05 |
| Units: | ug/L | Prepared: | 08/22/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/25/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Fluoranthene | ND | 9.6 | 0.23 |
| Pyrene | ND | 9.6 | 0.38 |
| Butylbenzylphthalate | ND | 9.6 | 0.36 |
| 3,3'-Dichlorobenzidine | ND | 19 | 0.43 |
| Benzo(a)anthracene | ND | 9.6 | 0.59 |
| Chrysene | ND | 9.6 | 0.27 |
| bis(2-Ethylhexyl)phthalate | 0.80 J | 9.6 | 0.51 |
| Di-n-octylphthalate | ND | 9.6 | 0.17 |
| Benzo(b)fluoranthene | ND | 9.6 | 0.15 |
| Benzo(k)fluoranthene | ND | 9.6 | 0.40 |
| Benzo(a)pyrene | ND | 9.6 | 0.14 |
| Indeno(1,2,3-cd)pyrene | ND | 9.6 | 0.40 |
| Dibenz(a,h)anthracene | ND | 9.6 | 0.24 |
| Benzo(g,h,i)perylene | ND | 9.6 | 0.54 |

| Surrogate | %REC | Limits |
|---|---|---|
| 2-Fluorophenol | 65 | 41-120 |
| Phenol-d5 | 68 | 41-120 |
| 2,4,6-Tribromophenol | 64 | 38-120 |
| Nitrobenzene-d5 | 81 | 47-120 |
| 2-Fluorobiphenyl | 84 | 44-120 |
| Terphenyl-d14 | 76 | 16-120 |

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



37.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8270C |
| Field ID: | MW-10.4-081805 | Batch#: | 105054 |
| Lab ID: | 181361-008 | Sampled: | 08/18/05 |
| Matrix: | Water | Received: | 08/19/05 |
| Units: | ug/L | Prepared: | 08/22/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/25/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| N-Nitrosodimethylamine | ND | 9.6 | 1.5 |
| Phenol | ND | 9.6 | 1.1 |
| bis(2-Chloroethyl)ether | ND | 9.6 | 0.62 |
| 2-Chlorophenol | ND | 9.6 | 0.42 |
| 1,3-Dichlorobenzene | ND | 9.6 | 0.32 |
| 1,4-Dichlorobenzene | ND | 9.6 | 0.47 |
| Benzyl alcohol | ND | 9.6 | 0.56 |
| 1,2-Dichlorobenzene | ND | 9.6 | 0.43 |
| 2-Methylphenol | ND | 9.6 | 1.1 |
| bis(2-Chloroisopropyl) ether | ND | 9.6 | 0.80 |
| 4-Methylphenol | ND | 9.6 | 0.41 |
| N-Nitroso-di-n-propylamine | ND | 9.6 | 1.4 |
| Hexachloroethane | ND | 9.6 | 0.40 |
| Nitrobenzene | ND | 9.6 | 0.57 |
| Isophorone | ND | 9.6 | 0.37 |
| 2-Nitrophenol | ND | 19 | 1.6 |
| 2,4-Dimethylphenol | ND | 9.6 | 1.1 |
| Benzoic acid | ND | 48 | 20 |
| bis(2-Chloroethoxy)methane | ND | 9.6 | 0.55 |
| 2,4-Dichlorophenol | ND | 9.6 | 0.69 |
| 1,2,4-Trichlorobenzene | ND | 9.6 | 0.31 |
| Naphthalene | ND | 9.6 | 0.26 |
| 4-Chloroaniline | ND | 9.6 | 0.95 |
| Hexachlorobutadiene | ND | 9.6 | 0.35 |
| 4-Chloro-3-methylphenol | ND | 9.6 | 0.72 |
| 2-Methylnaphthalene | ND | 9.6 | 0.28 |
| Hexachlorocyclopentadiene | ND | 19 | 0.76 |
| 2,4,6-Trichlorophenol | ND | 9.6 | 0.75 |
| 2,4,5-Trichlorophenol | ND | 9.6 | 0.93 |
| 2-Chloronaphthalene | ND | 9.6 | 0.36 |
| 2-Nitroaniline | ND | 19 | 0.85 |
| Dimethylphthalate | ND | 9.6 | 0.24 |
| Acenaphthylene | ND | 9.6 | 0.43 |
| 2,6-Dinitrotoluene | ND | 9.6 | 0.75 |
| 3-Nitroaniline | ND | 19 | 0.70 |
| Acenaphthene | ND | 9.6 | 0.32 |
| 2,4-Dinitrophenol | ND | 19 | 5.1 |
| 4-Nitrophenol | ND | 19 | 1.2 |
| Dibenzofuran | ND | 9.6 | 0.42 |
| 2,4-Dinitrotoluene | ND | 9.6 | 0.23 |
| Diethylphthalate | ND | 9.6 | 0.34 |
| Fluorene | ND | 9.6 | 0.17 |
| 4-Chlorophenyl-phenylether | ND | 9.6 | 0.29 |
| 4-Nitroaniline | ND | 19 | 0.64 |
| 4,6-Dinitro-2-methylphenol | ND | 19 | 0.68 |
| N-Nitrosodiphenylamine | ND | 9.6 | 0.37 |
| Azobenzene | ND | 9.6 | 0.76 |
| 4-Bromophenyl-phenylether | ND | 9.6 | 0.35 |
| Hexachlorobenzene | ND | 9.6 | 0.71 |
| Pentachlorophenol | ND | 19 | 0.72 |
| Phenanthrene | ND | 9.6 | 0.41 |
| Anthracene | ND | 9.6 | 0.29 |
| Di-n-butylphthalate | ND | 9.6 | 0.43 |

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



38.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8270C |
| Field ID: | MW-10.4-081805 | Batch#: | 105054 |
| Lab ID: | 181361-008 | Sampled: | 08/18/05 |
| Matrix: | Water | Received: | 08/19/05 |
| Units: | ug/L | Prepared: | 08/22/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/25/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Fluoranthene | ND | 9.6 | 0.23 |
| Pyrene | ND | 9.6 | 0.38 |
| Butylbenzylphthalate | ND | 9.6 | 0.36 |
| 3,3'-Dichlorobenzidine | ND | 19 | 0.43 |
| Benzo(a)anthracene | ND | 9.6 | 0.59 |
| Chrysene | ND | 9.6 | 0.27 |
| bis(2-Ethylhexyl)phthalate | 0.67 J | 9.6 | 0.51 |
| Di-n-octylphthalate | ND | 9.6 | 0.17 |
| Benzo(b)fluoranthene | ND | 9.6 | 0.15 |
| Benzo(k)fluoranthene | ND | 9.6 | 0.40 |
| Benzo(a)pyrene | ND | 9.6 | 0.14 |
| Indeno(1,2,3-cd)pyrene | ND | 9.6 | 0.40 |
| Dibenz(a,h)anthracene | ND | 9.6 | 0.24 |
| Benzo(g,h,i)perylene | ND | 9.6 | 0.54 |

| Surrogate | %REC | Limits |
|---|---|---|
| 2-Fluorophenol | 68 | 41-120 |
| Phenol-d5 | 70 | 41-120 |
| 2,4,6-Tribromophenol | 67 | 38-120 |
| Nitrobenzene-d5 | 83 | 47-120 |
| 2-Fluorobiphenyl | 87 | 44-120 |
| Terphenyl-d14 | 80 | 16-120 |

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



38.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

## Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8270C |
| Type: | BLANK | Diln Fac: | 1.000 |
| Lab ID: | QC305949 | Batch#: | 105054 |
| Matrix: | Water | Prepared: | 08/22/05 |
| Units: | ug/L | Analyzed: | 08/23/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| N-Nitrosodimethylamine | ND | 10 | 0.96 |
| Phenol | ND | 10 | 0.42 |
| bis(2-Chloroethyl)ether | ND | 10 | 0.48 |
| 2-Chlorophenol | ND | 10 | 0.66 |
| 1,3-Dichlorobenzene | ND | 10 | 0.69 |
| 1,4-Dichlorobenzene | ND | 10 | 0.56 |
| Benzyl alcohol | ND | 10 | 0.54 |
| 1,2-Dichlorobenzene | ND | 10 | 0.37 |
| 2-Methylphenol | ND | 10 | 1.0 |
| bis(2-Chloroisopropyl) ether | ND | 10 | 0.54 |
| 4-Methylphenol | ND | 10 | 0.59 |
| N-Nitroso-di-n-propylamine | ND | 10 | 0.64 |
| Hexachloroethane | ND | 10 | 0.78 |
| Nitrobenzene | ND | 10 | 0.27 |
| Isophorone | ND | 10 | 0.49 |
| 2-Nitrophenol | ND | 20 | 0.91 |
| 2,4-Dimethylphenol | ND | 10 | 1.0 |
| Benzoic acid | ND | 50 | 0.13 |
| bis(2-Chloroethoxy)methane | ND | 10 | 0.53 |
| 2,4-Dichlorophenol | ND | 10 | 0.42 |
| 1,2,4-Trichlorobenzene | ND | 10 | 0.60 |
| Naphthalene | ND | 10 | 0.31 |
| 4-Chloroaniline | ND | 10 | 2.3 |
| Hexachlorobutadiene | ND | 10 | 0.77 |
| 4-Chloro-3-methylphenol | ND | 10 | 0.61 |
| 2-Methylnaphthalene | ND | 10 | 0.67 |
| Hexachlorocyclopentadiene | ND | 20 | 0.32 |
| 2,4,6-Trichlorophenol | ND | 10 | 1.1 |
| 2,4,5-Trichlorophenol | ND | 10 | 1.1 |
| 2-Chloronaphthalene | ND | 10 | 0.38 |
| 2-Nitroaniline | ND | 20 | 0.78 |
| Dimethylphthalate | ND | 10 | 0.42 |
| Acenaphthylene | ND | 10 | 0.35 |
| 2,6-Dinitrotoluene | ND | 10 | 0.45 |
| 3-Nitroaniline | ND | 20 | 0.40 |
| Acenaphthene | ND | 10 | 0.34 |
| 2,4-Dinitrophenol | ND | 20 | 0.44 |
| 4-Nitrophenol | ND | 20 | 1.8 |
| Dibenzofuran | ND | 10 | 1.2 |
| 2,4-Dinitrotoluene | ND | 10 | 0.31 |
| Diethylphthalate | ND | 10 | 0.33 |
| Fluorene | ND | 10 | 0.96 |
| 4-Chlorophenyl-phenylether | ND | 10 | 0.79 |
| 4-Nitroaniline | ND | 20 | 1.0 |
| 4,6-Dinitro-2-methylphenol | ND | 20 | 1.1 |
| N-Nitrosodiphenylamine | ND | 10 | 0.30 |
| Azobenzene | ND | 10 | 0.60 |
| 4-Bromophenyl-phenylether | ND | 10 | 0.49 |
| Hexachlorobenzene | ND | 10 | 0.57 |
| Pentachlorophenol | ND | 20 | 0.46 |
| Phenanthrene | ND | 10 | 0.58 |
| Anthracene | ND | 10 | 0.27 |
| Di-n-butylphthalate | ND | 10 | 0.38 |
| Fluoranthene | ND | 10 | 0.47 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



39.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

## Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8270C |
| Type: | BLANK | Diln Fac: | 1.000 |
| Lab ID: | QC305949 | Batch#: | 105054 |
| Matrix: | Water | Prepared: | 08/22/05 |
| Units: | ug/L | Analyzed: | 08/23/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Pyrene | ND | 10 | 0.55 |
| Butylbenzylphthalate | ND | 10 | 0.51 |
| 3,3'-Dichlorobenzidine | ND | 20 | 0.45 |
| Benzo(a)anthracene | ND | 10 | 0.63 |
| Chrysene | ND | 10 | 0.69 |
| bis(2-Ethylhexyl)phthalate | ND | 10 | 1.2 |
| Di-n-octylphthalate | ND | 10 | 0.14 |
| Benzo(b)fluoranthene | ND | 10 | 0.45 |
| Benzo(k)fluoranthene | ND | 10 | 0.52 |
| Benzo(a)pyrene | ND | 10 | 0.52 |
| Indeno(1,2,3-cd)pyrene | ND | 10 | 0.32 |
| Dibenz(a,h)anthracene | ND | 10 | 0.29 |
| Benzo(g,h,i)perylene | ND | 10 | 0.28 |

| Surrogate | %REC | Limits |
|---|---|---|
| 2-Fluorophenol | 78 | 41-120 |
| Phenol-d5 | 69 | 41-120 |
| 2,4,6-Tribromophenol | 65 | 38-120 |
| Nitrobenzene-d5 | 81 | 47-120 |
| 2-Fluorobiphenyl | 75 | 44-120 |
| Terphenyl-d14 | 67 | 16-120 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



39.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

## Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8270C |
| Matrix: | Water | Batch#: | 105054 |
| Units: | ug/L | Prepared: | 08/22/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/24/05 |

Type: BS Lab ID: QC305950

| Analyte | Spiked | Result | %REC | Limits |
|---|---|---|---|---|
| Phenol | 100.0 | 76.86 | 77 | 43-120 |
| 2-Chlorophenol | 100.0 | 81.97 | 82 | 51-120 |
| 1,4-Dichlorobenzene | 50.00 | 24.45 | 49 | 36-120 |
| N-Nitroso-di-n-propylamine | 50.00 | 40.91 | 82 | 45-120 |
| 1,2,4-Trichlorobenzene | 50.00 | 32.85 | 66 | 38-120 |
| 4-Chloro-3-methylphenol | 100.0 | 84.65 | 85 | 48-120 |
| Acenaphthene | 50.00 | 41.79 | 84 | 43-120 |
| 4-Nitrophenol | 100.0 | 105.2 | 105 | 43-120 |
| 2,4-Dinitrotoluene | 50.00 | 43.44 | 87 | 46-120 |
| Pentachlorophenol | 100.0 | 101.5 | 101 | 35-120 |
| Pyrene | 50.00 | 39.53 | 79 | 38-120 |

| Surrogate | %REC | Limits |
|---|---|---|
| 2-Fluorophenol | 80 | 41-120 |
| Phenol-d5 | 78 | 41-120 |
| 2,4,6-Tribromophenol | 94 | 38-120 |
| Nitrobenzene-d5 | 87 | 47-120 |
| 2-Fluorobiphenyl | 92 | 44-120 |
| Terphenyl-d14 | 77 | 16-120 |

Type: BSD Lab ID: QC305951

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|
| Phenol | 100.0 | 76.78 | 77 | 43-120 | 0 | 25 |
| 2-Chlorophenol | 100.0 | 82.24 | 82 | 51-120 | 0 | 24 |
| 1,4-Dichlorobenzene | 50.00 | 24.12 | 48 | 36-120 | 1 | 35 |
| N-Nitroso-di-n-propylamine | 50.00 | 39.92 | 80 | 45-120 | 2 | 27 |
| 1,2,4-Trichlorobenzene | 50.00 | 32.16 | 64 | 38-120 | 2 | 30 |
| 4-Chloro-3-methylphenol | 100.0 | 83.09 | 83 | 48-120 | 2 | 25 |
| Acenaphthene | 50.00 | 40.86 | 82 | 43-120 | 2 | 24 |
| 4-Nitrophenol | 100.0 | 102.1 | 102 | 43-120 | 3 | 23 |
| 2,4-Dinitrotoluene | 50.00 | 42.73 | 85 | 46-120 | 2 | 24 |
| Pentachlorophenol | 100.0 | 99.86 | 100 | 35-120 | 2 | 28 |
| Pyrene | 50.00 | 39.06 | 78 | 38-120 | 1 | 24 |

| Surrogate | %REC | Limits |
|---|---|---|
| 2-Fluorophenol | 81 | 41-120 |
| Phenol-d5 | 79 | 41-120 |
| 2,4,6-Tribromophenol | 95 | 38-120 |
| Nitrobenzene-d5 | 87 | 47-120 |
| 2-Fluorobiphenyl | 90 | 44-120 |
| Terphenyl-d14 | 77 | 16-120 |

RPD= Relative Percent Difference



40.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Polychlorinated Biphenyl Congeners

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8082 |
| Field ID: | MW-4.1-081805 | Batch#: | 105026 |
| Lab ID: | 181361-001 | Sampled: | 08/18/05 |
| Matrix: | Water | Received: | 08/19/05 |
| Units: | ug/L | Prepared: | 08/20/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/22/05 |

Cleanup Method: EPA 3665A

| Analyte | Result | RL | MDL |
|---|---|---|---|
| BZ# 8 | ND | 0.048 | 0.012 |
| BZ# 18 | ND | 0.048 | 0.024 |
| BZ# 28 | ND | 0.048 | 0.020 |
| BZ# 52 | ND | 0.048 | 0.019 |
| BZ# 44 | ND | 0.048 | 0.0097 |
| BZ# 66 | ND | 0.048 | 0.0098 |
| BZ# 101 | ND | 0.048 | 0.013 |
| BZ# 81 | ND | 0.048 | 0.019 |
| BZ# 77 | ND | 0.048 | 0.010 |
| BZ# 123 | ND | 0.048 | 0.011 |
| BZ# 118 | ND | 0.048 | 0.010 |
| BZ# 114 | ND | 0.048 | 0.010 |
| BZ# 153 | ND | 0.048 | 0.014 |
| BZ# 105 | ND | 0.048 | 0.012 |
| BZ# 138 | ND | 0.048 | 0.011 |
| BZ# 187 | ND | 0.048 | 0.0099 |
| BZ# 126 | ND | 0.048 | 0.012 |
| BZ# 128 | ND | 0.048 | 0.011 |
| BZ# 167 | ND | 0.048 | 0.010 |
| BZ# 156 | ND | 0.048 | 0.012 |
| BZ# 157 | ND | 0.048 | 0.011 |
| BZ# 180 | ND | 0.048 | 0.011 |
| BZ# 170 | ND | 0.048 | 0.014 |
| BZ# 169 | ND | 0.048 | 0.013 |
| BZ# 189 | ND | 0.048 | 0.014 |
| BZ# 195 | ND | 0.048 | 0.013 |
| BZ# 206 | ND | 0.048 | 0.012 |
| BZ# 209 | ND | 0.048 | 0.015 |

| Surrogate | %REC | Limits |
|---|---|---|
| TCMX | 89 | 37-140 |
| BZ# 205 | 84 | 37-140 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



5.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Polychlorinated Biphenyl Congeners

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8082 |
| Field ID: | MW-4.2-081805 | Batch#: | 105026 |
| Lab ID: | 181361-002 | Sampled: | 08/18/05 |
| Matrix: | Water | Received: | 08/19/05 |
| Units: | ug/L | Prepared: | 08/20/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/22/05 |

Cleanup Method: EPA 3665A

| Analyte | Result | RL | MDL |
|---|---|---|---|
| BZ# 8 | ND | 0.048 | 0.012 |
| BZ# 18 | ND | 0.048 | 0.024 |
| BZ# 28 | ND | 0.048 | 0.019 |
| BZ# 52 | ND | 0.048 | 0.018 |
| BZ# 44 | ND | 0.048 | 0.0096 |
| BZ# 66 | ND | 0.048 | 0.0097 |
| BZ# 101 | ND | 0.048 | 0.013 |
| BZ# 81 | ND | 0.048 | 0.019 |
| BZ# 77 | ND | 0.048 | 0.010 |
| BZ# 123 | ND | 0.048 | 0.011 |
| BZ# 118 | ND | 0.048 | 0.010 |
| BZ# 114 | ND | 0.048 | 0.010 |
| BZ# 153 | ND | 0.048 | 0.014 |
| BZ# 105 | ND | 0.048 | 0.011 |
| BZ# 138 | ND | 0.048 | 0.011 |
| BZ# 187 | ND | 0.048 | 0.0098 |
| BZ# 126 | ND | 0.048 | 0.012 |
| BZ# 128 | ND | 0.048 | 0.010 |
| BZ# 167 | ND | 0.048 | 0.010 |
| BZ# 156 | ND | 0.048 | 0.012 |
| BZ# 157 | ND | 0.048 | 0.011 |
| BZ# 180 | ND | 0.048 | 0.011 |
| BZ# 170 | ND | 0.048 | 0.014 |
| BZ# 169 | ND | 0.048 | 0.013 |
| BZ# 189 | ND | 0.048 | 0.014 |
| BZ# 195 | ND | 0.048 | 0.012 |
| BZ# 206 | ND | 0.048 | 0.012 |
| BZ# 209 | ND | 0.048 | 0.015 |

| Surrogate | %REC | Limits |
|---|---|---|
| TCMX | 85 | 37-140 |
| BZ# 205 | 84 | 37-140 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



6.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Polychlorinated Biphenyl Congeners

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8082 |
| Field ID: | MW-4.3-081705 | Batch#: | 105026 |
| Lab ID: | 181361-003 | Sampled: | 08/17/05 |
| Matrix: | Water | Received: | 08/19/05 |
| Units: | ug/L | Prepared: | 08/20/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/22/05 |

Cleanup Method: EPA 3665A

| Analyte | Result | RL | MDL |
|---|---|---|---|
| BZ# 8 | ND | 0.049 | 0.012 |
| BZ# 18 | ND | 0.049 | 0.025 |
| BZ# 28 | ND | 0.049 | 0.020 |
| BZ# 52 | ND | 0.049 | 0.019 |
| BZ# 44 | ND | 0.049 | 0.0097 |
| BZ# 66 | ND | 0.049 | 0.0099 |
| BZ# 101 | ND | 0.049 | 0.013 |
| BZ# 81 | ND | 0.049 | 0.019 |
| BZ# 77 | ND | 0.049 | 0.010 |
| BZ# 123 | ND | 0.049 | 0.011 |
| BZ# 118 | ND | 0.049 | 0.010 |
| BZ# 114 | ND | 0.049 | 0.010 |
| BZ# 153 | ND | 0.049 | 0.015 |
| BZ# 105 | ND | 0.049 | 0.012 |
| BZ# 138 | ND | 0.049 | 0.011 |
| BZ# 187 | ND | 0.049 | 0.010 |
| BZ# 126 | ND | 0.049 | 0.012 |
| BZ# 128 | ND | 0.049 | 0.011 |
| BZ# 167 | ND | 0.049 | 0.010 |
| BZ# 156 | ND | 0.049 | 0.012 |
| BZ# 157 | ND | 0.049 | 0.011 |
| BZ# 180 | ND | 0.049 | 0.011 |
| BZ# 170 | ND | 0.049 | 0.015 |
| BZ# 169 | ND | 0.049 | 0.013 |
| BZ# 189 | ND | 0.049 | 0.014 |
| BZ# 195 | ND | 0.049 | 0.013 |
| BZ# 206 | ND | 0.049 | 0.012 |
| BZ# 209 | ND | 0.049 | 0.015 |

| Surrogate | %REC | Limits |
|---|---|---|
| TCMX | 96 | 37-140 |
| BZ# 205 | 94 | 37-140 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



7.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Polychlorinated Biphenyl Congeners

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8082 |
| Field ID: | MW-4.4-081705 | Batch#: | 105026 |
| Lab ID: | 181361-004 | Sampled: | 08/17/05 |
| Matrix: | Water | Received: | 08/19/05 |
| Units: | ug/L | Prepared: | 08/20/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/22/05 |

Cleanup Method: EPA 3665A

| Analyte | Result | RL | MDL |
|---|---|---|---|
| BZ# 8 | ND | 0.048 | 0.012 |
| BZ# 18 | ND | 0.048 | 0.024 |
| BZ# 28 | ND | 0.048 | 0.020 |
| BZ# 52 | ND | 0.048 | 0.019 |
| BZ# 44 | ND | 0.048 | 0.0097 |
| BZ# 66 | ND | 0.048 | 0.0098 |
| BZ# 101 | ND | 0.048 | 0.013 |
| BZ# 81 | ND | 0.048 | 0.019 |
| BZ# 77 | ND | 0.048 | 0.010 |
| BZ# 123 | ND | 0.048 | 0.011 |
| BZ# 118 | ND | 0.048 | 0.010 |
| BZ# 114 | ND | 0.048 | 0.010 |
| BZ# 153 | ND | 0.048 | 0.014 |
| BZ# 105 | ND | 0.048 | 0.012 |
| BZ# 138 | ND | 0.048 | 0.011 |
| BZ# 187 | ND | 0.048 | 0.0099 |
| BZ# 126 | ND | 0.048 | 0.012 |
| BZ# 128 | ND | 0.048 | 0.011 |
| BZ# 167 | ND | 0.048 | 0.010 |
| BZ# 156 | ND | 0.048 | 0.012 |
| BZ# 157 | ND | 0.048 | 0.011 |
| BZ# 180 | ND | 0.048 | 0.011 |
| BZ# 170 | ND | 0.048 | 0.014 |
| BZ# 169 | ND | 0.048 | 0.013 |
| BZ# 189 | ND | 0.048 | 0.014 |
| BZ# 195 | ND | 0.048 | 0.013 |
| BZ# 206 | ND | 0.048 | 0.012 |
| BZ# 209 | ND | 0.048 | 0.015 |

| Surrogate | %REC | Limits |
|---|---|---|
| TCMX | 92 | 37-140 |
| BZ# 205 | 87 | 37-140 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



8.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Polychlorinated Biphenyl Congeners

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8082 |
| Field ID: | MW-5.8-081705 | Batch#: | 105026 |
| Lab ID: | 181361-005 | Sampled: | 08/17/05 |
| Matrix: | Water | Received: | 08/19/05 |
| Units: | ug/L | Prepared: | 08/20/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/22/05 |

Cleanup Method: EPA 3665A

| Analyte | Result | RL | MDL |
|---|---|---|---|
| BZ# 8 | ND | 0.048 | 0.012 |
| BZ# 18 | ND | 0.048 | 0.024 |
| BZ# 28 | ND | 0.048 | 0.019 |
| BZ# 52 | ND | 0.048 | 0.018 |
| BZ# 44 | ND | 0.048 | 0.0096 |
| BZ# 66 | ND | 0.048 | 0.0097 |
| BZ# 101 | ND | 0.048 | 0.013 |
| BZ# 81 | ND | 0.048 | 0.019 |
| BZ# 77 | ND | 0.048 | 0.010 |
| BZ# 123 | ND | 0.048 | 0.011 |
| BZ# 118 | ND | 0.048 | 0.010 |
| BZ# 114 | ND | 0.048 | 0.010 |
| BZ# 153 | ND | 0.048 | 0.014 |
| BZ# 105 | ND | 0.048 | 0.011 |
| BZ# 138 | ND | 0.048 | 0.011 |
| BZ# 187 | ND | 0.048 | 0.0098 |
| BZ# 126 | ND | 0.048 | 0.012 |
| BZ# 128 | ND | 0.048 | 0.010 |
| BZ# 167 | ND | 0.048 | 0.010 |
| BZ# 156 | ND | 0.048 | 0.012 |
| BZ# 157 | ND | 0.048 | 0.011 |
| BZ# 180 | ND | 0.048 | 0.011 |
| BZ# 170 | ND | 0.048 | 0.014 |
| BZ# 169 | ND | 0.048 | 0.013 |
| BZ# 189 | ND | 0.048 | 0.014 |
| BZ# 195 | ND | 0.048 | 0.012 |
| BZ# 206 | ND | 0.048 | 0.012 |
| BZ# 209 | ND | 0.048 | 0.015 |

| Surrogate | %REC | Limits |
|---|---|---|
| TCMX | 100 | 37-140 |
| BZ# 205 | 92 | 37-140 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



9.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Polychlorinated Biphenyl Congeners

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8082 |
| Field ID: | MW-5.9-081805 | Batch#: | 105026 |
| Lab ID: | 181361-006 | Sampled: | 08/18/05 |
| Matrix: | Water | Received: | 08/19/05 |
| Units: | ug/L | Prepared: | 08/20/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/22/05 |

Cleanup Method: EPA 3665A

| Analyte | Result | RL | MDL |
|---|---|---|---|
| BZ# 8 | ND | 0.048 | 0.012 |
| BZ# 18 | ND | 0.048 | 0.024 |
| BZ# 28 | ND | 0.048 | 0.020 |
| BZ# 52 | ND | 0.048 | 0.019 |
| BZ# 44 | ND | 0.048 | 0.0097 |
| BZ# 66 | ND | 0.048 | 0.0098 |
| BZ# 101 | ND | 0.048 | 0.013 |
| BZ# 81 | ND | 0.048 | 0.019 |
| BZ# 77 | ND | 0.048 | 0.010 |
| BZ# 123 | ND | 0.048 | 0.011 |
| BZ# 118 | ND | 0.048 | 0.010 |
| BZ# 114 | ND | 0.048 | 0.010 |
| BZ# 153 | ND | 0.048 | 0.014 |
| BZ# 105 | ND | 0.048 | 0.012 |
| BZ# 138 | ND | 0.048 | 0.011 |
| BZ# 187 | ND | 0.048 | 0.0099 |
| BZ# 126 | ND | 0.048 | 0.012 |
| BZ# 128 | ND | 0.048 | 0.011 |
| BZ# 167 | ND | 0.048 | 0.010 |
| BZ# 156 | ND | 0.048 | 0.012 |
| BZ# 157 | ND | 0.048 | 0.011 |
| BZ# 180 | ND | 0.048 | 0.011 |
| BZ# 170 | ND | 0.048 | 0.014 |
| BZ# 169 | ND | 0.048 | 0.013 |
| BZ# 189 | ND | 0.048 | 0.014 |
| BZ# 195 | ND | 0.048 | 0.013 |
| BZ# 206 | ND | 0.048 | 0.012 |
| BZ# 209 | ND | 0.048 | 0.015 |

| Surrogate | %REC | Limits |
|---|---|---|
| TCMX | 105 | 37-140 |
| BZ# 205 | 94 | 37-140 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



10.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Polychlorinated Biphenyl Congeners

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8082 |
| Field ID: | MW-7.1-081805 | Batch#: | 105026 |
| Lab ID: | 181361-007 | Sampled: | 08/18/05 |
| Matrix: | Water | Received: | 08/19/05 |
| Units: | ug/L | Prepared: | 08/20/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/22/05 |

Cleanup Method: EPA 3665A

| Analyte | Result | RL | MDL |
|---|---|---|---|
| BZ# 8 | ND | 0.048 | 0.012 |
| BZ# 18 | ND | 0.048 | 0.024 |
| BZ# 28 | ND | 0.048 | 0.020 |
| BZ# 52 | ND | 0.048 | 0.019 |
| BZ# 44 | ND | 0.048 | 0.0097 |
| BZ# 66 | ND | 0.048 | 0.0098 |
| BZ# 101 | ND | 0.048 | 0.013 |
| BZ# 81 | ND | 0.048 | 0.019 |
| BZ# 77 | ND | 0.048 | 0.010 |
| BZ# 123 | ND | 0.048 | 0.011 |
| BZ# 118 | ND | 0.048 | 0.010 |
| BZ# 114 | ND | 0.048 | 0.010 |
| BZ# 153 | ND | 0.048 | 0.014 |
| BZ# 105 | ND | 0.048 | 0.012 |
| BZ# 138 | ND | 0.048 | 0.011 |
| BZ# 187 | ND | 0.048 | 0.0099 |
| BZ# 126 | ND | 0.048 | 0.012 |
| BZ# 128 | ND | 0.048 | 0.011 |
| BZ# 167 | ND | 0.048 | 0.010 |
| BZ# 156 | ND | 0.048 | 0.012 |
| BZ# 157 | ND | 0.048 | 0.011 |
| BZ# 180 | ND | 0.048 | 0.011 |
| BZ# 170 | ND | 0.048 | 0.014 |
| BZ# 169 | ND | 0.048 | 0.013 |
| BZ# 189 | ND | 0.048 | 0.014 |
| BZ# 195 | ND | 0.048 | 0.013 |
| BZ# 206 | ND | 0.048 | 0.012 |
| BZ# 209 | ND | 0.048 | 0.015 |

| Surrogate | %REC | Limits |
|---|---|---|
| TCMX | 102 | 37-140 |
| BZ# 205 | 87 | 37-140 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



11.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Polychlorinated Biphenyl Congeners

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8082 |
| Field ID: | MW-10.4-081805 | Batch#: | 105026 |
| Lab ID: | 181361-008 | Sampled: | 08/18/05 |
| Matrix: | Water | Received: | 08/19/05 |
| Units: | ug/L | Prepared: | 08/20/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/22/05 |

Cleanup Method: EPA 3665A

| Analyte | Result | RL | MDL |
|---|---|---|---|
| BZ# 8 | ND | 0.048 | 0.012 |
| BZ# 18 | ND | 0.048 | 0.024 |
| BZ# 28 | ND | 0.048 | 0.019 |
| BZ# 52 | ND | 0.048 | 0.018 |
| BZ# 44 | ND | 0.048 | 0.0096 |
| BZ# 66 | ND | 0.048 | 0.0097 |
| BZ# 101 | ND | 0.048 | 0.013 |
| BZ# 81 | ND | 0.048 | 0.019 |
| BZ# 77 | ND | 0.048 | 0.010 |
| BZ# 123 | ND | 0.048 | 0.011 |
| BZ# 118 | ND | 0.048 | 0.010 |
| BZ# 114 | ND | 0.048 | 0.010 |
| BZ# 153 | ND | 0.048 | 0.014 |
| BZ# 105 | ND | 0.048 | 0.011 |
| BZ# 138 | ND | 0.048 | 0.011 |
| BZ# 187 | ND | 0.048 | 0.0098 |
| BZ# 126 | ND | 0.048 | 0.012 |
| BZ# 128 | ND | 0.048 | 0.010 |
| BZ# 167 | ND | 0.048 | 0.010 |
| BZ# 156 | ND | 0.048 | 0.012 |
| BZ# 157 | ND | 0.048 | 0.011 |
| BZ# 180 | ND | 0.048 | 0.011 |
| BZ# 170 | ND | 0.048 | 0.014 |
| BZ# 169 | ND | 0.048 | 0.013 |
| BZ# 189 | ND | 0.048 | 0.014 |
| BZ# 195 | ND | 0.048 | 0.012 |
| BZ# 206 | ND | 0.048 | 0.012 |
| BZ# 209 | ND | 0.048 | 0.015 |

| Surrogate | %REC | Limits |
|---|---|---|
| TCMX | 37 | 37-140 |
| BZ# 205 | 69 | 37-140 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



12.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

## Polychlorinated Biphenyl Congeners

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8082 |
| Type: | BLANK | Diln Fac: | 1.000 |
| Lab ID: | QC305827 | Batch#: | 105026 |
| Matrix: | Water | Prepared: | 08/20/05 |
| Units: | ug/L | Analyzed: | 08/21/05 |

Cleanup Method: EPA 3665A

| Analyte | Result | RL | MDL |
|---|---|---|---|
| BZ# 8 | ND | 0.050 | 0.012 |
| BZ# 18 | ND | 0.050 | 0.025 |
| BZ# 28 | ND | 0.050 | 0.020 |
| BZ# 52 | ND | 0.050 | 0.019 |
| BZ# 44 | ND | 0.050 | 0.010 |
| BZ# 66 | ND | 0.050 | 0.010 |
| BZ# 101 | ND | 0.050 | 0.013 |
| BZ# 81 | ND | 0.050 | 0.020 |
| BZ# 77 | ND | 0.050 | 0.011 |
| BZ# 123 | ND | 0.050 | 0.012 |
| BZ# 118 | ND | 0.050 | 0.011 |
| BZ# 114 | ND | 0.050 | 0.011 |
| BZ# 153 | ND | 0.050 | 0.015 |
| BZ# 105 | ND | 0.050 | 0.012 |
| BZ# 138 | ND | 0.050 | 0.011 |
| BZ# 187 | ND | 0.050 | 0.010 |
| BZ# 126 | ND | 0.050 | 0.013 |
| BZ# 128 | ND | 0.050 | 0.011 |
| BZ# 167 | ND | 0.050 | 0.010 |
| BZ# 156 | ND | 0.050 | 0.013 |
| BZ# 157 | ND | 0.050 | 0.011 |
| BZ# 180 | ND | 0.050 | 0.011 |
| BZ# 170 | ND | 0.050 | 0.015 |
| BZ# 169 | ND | 0.050 | 0.014 |
| BZ# 189 | ND | 0.050 | 0.015 |
| BZ# 195 | ND | 0.050 | 0.013 |
| BZ# 206 | ND | 0.050 | 0.012 |
| BZ# 209 | ND | 0.050 | 0.016 |

| Surrogate | %REC | Limits |
|---|---|---|
| TCMX | 63 | 37-140 |
| BZ# 205 | 85 | 37-140 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



13.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

## Polychlorinated Biphenyl Congeners

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8082 |
| Type: | LCS | Diln Fac: | 1.000 |
| Lab ID: | QC305828 | Batch#: | 105026 |
| Matrix: | Water | Prepared: | 08/20/05 |
| Units: | ug/L | Analyzed: | 08/21/05 |

Cleanup Method: EPA 3665A

| Analyte | Spiked | Result | %REC | Limits |
|---|---|---|---|---|
| BZ# 8 | 1.000 | 0.8210 | 82 | 50-150 |
| BZ# 18 | 1.000 | 0.8434 | 84 | 50-150 |
| BZ# 28 | 1.000 | 0.8973 | 90 | 50-150 |
| BZ# 52 | 1.000 | 0.8038 | 80 | 50-150 |
| BZ# 44 | 1.000 | 0.8317 | 83 | 50-150 |
| BZ# 66 | 1.000 | 0.8917 | 89 | 50-150 |
| BZ# 101 | 1.000 | 0.8679 | 87 | 50-150 |
| BZ# 81 | 1.000 | 0.9865 | 99 | 50-150 |
| BZ# 77 | 1.000 | 1.087 # | 109 | 50-150 |
| BZ# 123 | 1.000 | 0.8935 | 89 | 50-150 |
| BZ# 118 | 1.000 | 0.8985 | 90 | 50-150 |
| BZ# 114 | 1.000 | 0.9169 | 92 | 50-150 |
| BZ# 153 | 1.000 | 0.8497 | 85 | 50-150 |
| BZ# 105 | 1.000 | 0.9570 | 96 | 50-150 |
| BZ# 138 | 1.000 | 0.8942 | 89 | 50-150 |
| BZ# 187 | 1.000 | 0.8277 | 83 | 50-150 |
| BZ# 126 | 1.000 | 1.042 | 104 | 50-150 |
| BZ# 128 | 1.000 | 0.8940 | 89 | 50-150 |
| BZ# 167 | 1.000 | 0.8994 | 90 | 50-150 |
| BZ# 156 | 1.000 | 0.8962 | 90 | 50-150 |
| BZ# 157 | 1.000 | 0.9132 | 91 | 50-150 |
| BZ# 180 | 1.000 | 0.8291 | 83 | 50-150 |
| BZ# 170 | 1.000 | 0.8657 | 87 | 50-150 |
| BZ# 169 | 1.000 | 1.007 | 101 | 50-150 |
| BZ# 189 | 1.000 | 0.9442 | 94 | 50-150 |
| BZ# 195 | 1.000 | 0.8604 | 86 | 50-150 |
| BZ# 206 | 1.000 | 0.7984 | 80 | 50-150 |
| BZ# 209 | 1.000 | 0.8214 | 82 | 50-150 |

| Surrogate | %REC | Limits |
|---|---|---|
| TCMX | 71 | 37-140 |
| BZ# 205 | 91 | 37-140 |

#= CCV drift outside limits; average CCV drift within limits per method requirements



14.0

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Batch QC Report

## Polychlorinated Biphenyl Congeners

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8082 |
| Field ID: | MW2.1-081505 | Batch#: | 105026 |
| MSS Lab ID: | 181301-002 | Sampled: | 08/15/05 |
| Matrix: | Water | Received: | 08/17/05 |
| Units: | ug/L | Prepared: | 08/20/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/21/05 |

Type: MS
Lab ID: QC305829
Cleanup Method: EPA 3665A

| Analyte | MSS Result | Spiked | Result | %REC | Limits |
|---|---|---|---|---|---|
| BZ# 8 | <0.01196 | 0.9901 | 0.8919 | 90 | 50-150 |
| BZ# 18 | <0.02432 | 0.9901 | 0.9045 | 91 | 50-150 |
| BZ# 28 | <0.01952 | 0.9901 | 0.9746 | 98 | 50-150 |
| BZ# 52 | <0.01853 | 0.9901 | 0.8558 | 86 | 50-150 |
| BZ# 44 | <0.009652 | 0.9901 | 0.8922 | 90 | 50-150 |
| BZ# 66 | <0.009834 | 0.9901 | 0.9594 | 97 | 50-150 |
| BZ# 101 | <0.01287 | 0.9901 | 0.9272 | 94 | 50-150 |
| BZ# 81 | <0.01904 | 0.9901 | 1.098 | 111 | 50-150 |
| BZ# 77 | <0.01027 | 0.9901 | 1.120 # | 113 | 50-150 |
| BZ# 123 | <0.01108 | 0.9901 | 0.9543 | 96 | 50-150 |
| BZ# 118 | <0.01026 | 0.9901 | 0.9565 | 97 | 50-150 |
| BZ# 114 | <0.01010 | 0.9901 | 0.9350 | 94 | 50-150 |
| BZ# 153 | <0.01447 | 0.9901 | 0.9007 | 91 | 50-150 |
| BZ# 105 | <0.01160 | 0.9901 | 1.022 | 103 | 50-150 |
| BZ# 138 | <0.01062 | 0.9901 | 0.9583 | 97 | 50-150 |
| BZ# 187 | <0.009913 | 0.9901 | 0.8746 | 88 | 50-150 |
| BZ# 126 | <0.01229 | 0.9901 | 0.9364 | 95 | 50-150 |
| BZ# 128 | <0.01053 | 0.9901 | 0.9511 | 96 | 50-150 |
| BZ# 167 | <0.01005 | 0.9901 | 0.9566 | 97 | 50-150 |
| BZ# 156 | <0.01220 | 0.9901 | 0.9488 | 96 | 50-150 |
| BZ# 157 | <0.01061 | 0.9901 | 0.9656 | 98 | 50-150 |
| BZ# 180 | <0.01068 | 0.9901 | 0.8746 | 88 | 50-150 |
| BZ# 170 | <0.01442 | 0.9901 | 0.9143 | 92 | 50-150 |
| BZ# 169 | <0.01309 | 0.9901 | 1.067 | 108 | 50-150 |
| BZ# 189 | <0.01405 | 0.9901 | 0.9843 | 99 | 50-150 |
| BZ# 195 | <0.01261 | 0.9901 | 0.9074 | 92 | 50-150 |
| BZ# 206 | <0.01190 | 0.9901 | 0.8324 | 84 | 50-150 |
| BZ# 209 | <0.01531 | 0.9901 | 0.8574 | 87 | 50-150 |

| Surrogate | %REC | Limits |
|---|---|---|
| TCMX | 79 | 37-140 |
| BZ# 205 | 90 | 37-140 |

#= CCV drift outside limits; average CCV drift within limits per method requirements
RPD= Relative Percent Difference



15.0

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Batch QC Report

## Polychlorinated Biphenyl Congeners

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8082 |
| Field ID: | MW2.1-081505 | Batch#: | 105026 |
| MSS Lab ID: | 181301-002 | Sampled: | 08/15/05 |
| Matrix: | Water | Received: | 08/17/05 |
| Units: | ug/L | Prepared: | 08/20/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/21/05 |

Type: MSD
Lab ID: QC305830

Cleanup Method: EPA 3665A

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|
| BZ# 8 | 0.9615 | 0.8249 | 86 | 50-150 | 5 | 30 |
| BZ# 18 | 0.9615 | 0.8249 | 86 | 50-150 | 6 | 30 |
| BZ# 28 | 0.9615 | 0.8485 | 88 | 50-150 | 11 | 30 |
| BZ# 52 | 0.9615 | 0.7597 | 79 | 50-150 | 9 | 30 |
| BZ# 44 | 0.9615 | 0.7844 | 82 | 50-150 | 10 | 30 |
| BZ# 66 | 0.9615 | 0.8171 | 85 | 50-150 | 13 | 30 |
| BZ# 101 | 0.9615 | 0.8005 | 83 | 50-150 | 12 | 30 |
| BZ# 81 | 0.9615 | 0.8602 | 89 | 50-150 | 21 | 30 |
| BZ# 77 | 0.9615 | 0.9644 # | 100 | 50-150 | 12 | 30 |
| BZ# 123 | 0.9615 | 0.8011 | 83 | 50-150 | 15 | 30 |
| BZ# 118 | 0.9615 | 0.8046 | 84 | 50-150 | 14 | 30 |
| BZ# 114 | 0.9615 | 0.8170 | 85 | 50-150 | 11 | 30 |
| BZ# 153 | 0.9615 | 0.7669 | 80 | 50-150 | 13 | 30 |
| BZ# 105 | 0.9615 | 0.8470 | 88 | 50-150 | 16 | 30 |
| BZ# 138 | 0.9615 | 0.8042 | 84 | 50-150 | 15 | 30 |
| BZ# 187 | 0.9615 | 0.7413 | 77 | 50-150 | 14 | 30 |
| BZ# 126 | 0.9615 | 0.9107 | 95 | 50-150 | 0 | 30 |
| BZ# 128 | 0.9615 | 0.7900 | 82 | 50-150 | 16 | 30 |
| BZ# 167 | 0.9615 | 0.7926 | 82 | 50-150 | 16 | 30 |
| BZ# 156 | 0.9615 | 0.7886 | 82 | 50-150 | 16 | 30 |
| BZ# 157 | 0.9615 | 0.8258 | 86 | 50-150 | 13 | 30 |
| BZ# 180 | 0.9615 | 0.7674 | 80 | 50-150 | 10 | 30 |
| BZ# 170 | 0.9615 | 0.7554 | 79 | 50-150 | 16 | 30 |
| BZ# 169 | 0.9615 | 0.8655 | 90 | 50-150 | 18 | 30 |
| BZ# 189 | 0.9615 | 0.8095 | 84 | 50-150 | 17 | 30 |
| BZ# 195 | 0.9615 | 0.7401 | 77 | 50-150 | 17 | 30 |
| BZ# 206 | 0.9615 | 0.6809 | 71 | 50-150 | 17 | 30 |
| BZ# 209 | 0.9615 | 0.7016 | 73 | 50-150 | 17 | 30 |

| Surrogate | %REC | Limits |
|---|---|---|
| TCMX | 77 | 37-140 |
| BZ# 205 | 80 | 37-140 |

#= CCV drift outside limits; average CCV drift within limits per method requirements
RPD= Relative Percent Difference



15.0

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# Polynuclear Aromatics by HPLC

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8310 |
| Field ID: | MW-4.1-081805 | Batch#: | 105025 |
| Lab ID: | 181361-001 | Sampled: | 08/18/05 |
| Matrix: | Water | Received: | 08/19/05 |
| Units: | ug/L | Prepared: | 08/20/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/24/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Naphthalene | ND | 0.95 | 0.07 |
| Acenaphthylene | ND | 1.9 | 0.09 |
| Acenaphthene | ND | 0.95 | 0.06 |
| Fluorene | ND | 0.19 | 0.01 |
| Phenanthrene | ND | 0.10 | 0.008 |
| Anthracene | ND | 0.10 | 0.008 |
| Fluoranthene | ND | 0.19 | 0.01 |
| Pyrene | ND | 0.10 | 0.007 |
| Benzo(a)anthracene | ND | 0.10 | 0.005 |
| Chrysene | ND | 0.10 | 0.006 |
| Benzo(b)fluoranthene | ND | 0.19 | 0.009 |
| Benzo(k)fluoranthene | ND | 0.10 | 0.005 |
| Benzo(a)pyrene | ND | 0.10 | 0.007 |
| Dibenz(a,h)anthracene | ND | 0.19 | 0.008 |
| Benzo(g,h,i)perylene | ND | 0.19 | 0.009 |
| Indeno(1,2,3-cd)pyrene | ND | 0.10 | 0.006 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1-Methylnaphthalene (UV) | 88 | 58-132 |
| 1-Methylnaphthalene (F) | 94 | 56-135 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



20.0

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# Polynuclear Aromatics by HPLC

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8310 |
| Field ID: | MW-4.2-081805 | Batch#: | 105025 |
| Lab ID: | 181361-002 | Sampled: | 08/18/05 |
| Matrix: | Water | Received: | 08/19/05 |
| Units: | ug/L | Prepared: | 08/20/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/22/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Naphthalene | ND | 0.95 | 0.07 |
| Acenaphthylene | ND | 1.9 | 0.09 |
| Acenaphthene | ND | 0.95 | 0.06 |
| Fluorene | ND | 0.19 | 0.01 |
| Phenanthrene | ND | 0.10 | 0.008 |
| Anthracene | ND | 0.10 | 0.008 |
| Fluoranthene | ND | 0.19 | 0.01 |
| Pyrene | ND | 0.10 | 0.007 |
| Benzo(a)anthracene | ND | 0.10 | 0.005 |
| Chrysene | ND | 0.10 | 0.006 |
| Benzo(b)fluoranthene | ND | 0.19 | 0.009 |
| Benzo(k)fluoranthene | ND | 0.10 | 0.005 |
| Benzo(a)pyrene | ND | 0.10 | 0.01 |
| Dibenz(a,h)anthracene | ND | 0.19 | 0.008 |
| Benzo(g,h,i)perylene | ND | 0.19 | 0.009 |
| Indeno(1,2,3-cd)pyrene | ND | 0.10 | 0.006 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1-Methylnaphthalene (UV) | 74 | 58-132 |
| 1-Methylnaphthalene (F) | 81 | 56-135 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



21.0

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# Polynuclear Aromatics by HPLC

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8310 |
| Field ID: | MW-4.3-081705 | Batch#: | 105025 |
| Lab ID: | 181361-003 | Sampled: | 08/17/05 |
| Matrix: | Water | Received: | 08/19/05 |
| Units: | ug/L | Prepared: | 08/20/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/23/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Naphthalene | ND | 0.95 | 0.07 |
| Acenaphthylene | ND | 1.9 | 0.09 |
| Acenaphthene | ND | 0.95 | 0.06 |
| Fluorene | ND | 0.19 | 0.01 |
| Phenanthrene | ND | 0.10 | 0.008 |
| Anthracene | ND | 0.10 | 0.008 |
| Fluoranthene | ND | 0.19 | 0.01 |
| Pyrene | ND | 0.10 | 0.007 |
| Benzo(a)anthracene | ND | 0.10 | 0.005 |
| Chrysene | ND | 0.10 | 0.006 |
| Benzo(b)fluoranthene | ND | 0.19 | 0.009 |
| Benzo(k)fluoranthene | ND | 0.10 | 0.005 |
| Benzo(a)pyrene | ND | 0.10 | 0.01 |
| Dibenz(a,h)anthracene | ND | 0.19 | 0.008 |
| Benzo(g,h,i)perylene | ND | 0.19 | 0.009 |
| Indeno(1,2,3-cd)pyrene | ND | 0.10 | 0.006 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1-Methylnaphthalene (UV) | 80 | 58-132 |
| 1-Methylnaphthalene (F) | 86 | 56-135 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



22.0

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# Polynuclear Aromatics by HPLC

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8310 |
| Field ID: | MW-4.4-081705 | Batch#: | 105025 |
| Lab ID: | 181361-004 | Sampled: | 08/17/05 |
| Matrix: | Water | Received: | 08/19/05 |
| Units: | ug/L | Prepared: | 08/20/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/23/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Naphthalene | ND | 0.95 | 0.07 |
| Acenaphthylene | ND | 1.9 | 0.09 |
| Acenaphthene | ND | 0.95 | 0.06 |
| Fluorene | ND | 0.19 | 0.01 |
| Phenanthrene | ND | 0.10 | 0.008 |
| Anthracene | ND | 0.10 | 0.008 |
| Fluoranthene | ND | 0.19 | 0.01 |
| Pyrene | ND | 0.10 | 0.007 |
| Benzo(a)anthracene | ND | 0.10 | 0.005 |
| Chrysene | ND | 0.10 | 0.006 |
| Benzo(b)fluoranthene | ND | 0.19 | 0.009 |
| Benzo(k)fluoranthene | ND | 0.10 | 0.005 |
| Benzo(a)pyrene | ND | 0.10 | 0.01 |
| Dibenz(a,h)anthracene | ND | 0.19 | 0.008 |
| Benzo(g,h,i)perylene | ND | 0.19 | 0.009 |
| Indeno(1,2,3-cd)pyrene | ND | 0.10 | 0.006 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1-Methylnaphthalene (UV) | 78 | 58-132 |
| 1-Methylnaphthalene (F) | 85 | 56-135 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



23.0

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# Polynuclear Aromatics by HPLC

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8310 |
| Field ID: | MW-5.8-081705 | Batch#: | 105025 |
| Lab ID: | 181361-005 | Sampled: | 08/17/05 |
| Matrix: | Water | Received: | 08/19/05 |
| Units: | ug/L | Prepared: | 08/20/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/23/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Naphthalene | ND | 0.95 | 0.07 |
| Acenaphthylene | ND | 1.9 | 0.09 |
| Acenaphthene | ND | 0.95 | 0.06 |
| Fluorene | ND | 0.19 | 0.01 |
| Phenanthrene | ND | 0.10 | 0.008 |
| Anthracene | ND | 0.10 | 0.008 |
| Fluoranthene | ND | 0.19 | 0.01 |
| Pyrene | ND | 0.10 | 0.007 |
| Benzo(a)anthracene | ND | 0.10 | 0.005 |
| Chrysene | ND | 0.10 | 0.006 |
| Benzo(b)fluoranthene | ND | 0.19 | 0.009 |
| Benzo(k)fluoranthene | ND | 0.10 | 0.005 |
| Benzo(a)pyrene | ND | 0.10 | 0.01 |
| Dibenz(a,h)anthracene | ND | 0.19 | 0.008 |
| Benzo(g,h,i)perylene | ND | 0.19 | 0.009 |
| Indeno(1,2,3-cd)pyrene | ND | 0.10 | 0.006 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1-Methylnaphthalene (UV) | 78 | 58-132 |
| 1-Methylnaphthalene (F) | 85 | 56-135 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



24.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Polynuclear Aromatics by HPLC

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8310 |
| Field ID: | MW-5.9-081805 | Batch#: | 105025 |
| Lab ID: | 181361-006 | Sampled: | 08/18/05 |
| Matrix: | Water | Received: | 08/19/05 |
| Units: | ug/L | Prepared: | 08/20/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/23/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Naphthalene | ND | 0.95 | 0.07 |
| Acenaphthylene | ND | 1.9 | 0.09 |
| Acenaphthene | ND | 0.95 | 0.06 |
| Fluorene | ND | 0.19 | 0.01 |
| Phenanthrene | ND | 0.10 | 0.008 |
| Anthracene | ND | 0.10 | 0.008 |
| Fluoranthene | ND | 0.19 | 0.01 |
| Pyrene | ND | 0.10 | 0.007 |
| Benzo(a)anthracene | ND | 0.10 | 0.005 |
| Chrysene | ND | 0.10 | 0.006 |
| Benzo(b)fluoranthene | ND | 0.19 | 0.009 |
| Benzo(k)fluoranthene | ND | 0.10 | 0.005 |
| Benzo(a)pyrene | ND | 0.10 | 0.01 |
| Dibenz(a,h)anthracene | ND | 0.19 | 0.008 |
| Benzo(g,h,i)perylene | ND | 0.19 | 0.009 |
| Indeno(1,2,3-cd)pyrene | ND | 0.10 | 0.006 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1-Methylnaphthalene (UV) | 75 | 58-132 |
| 1-Methylnaphthalene (F) | 81 | 56-135 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



25.0

Curtis & Tompkins, Ltd.
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# Polynuclear Aromatics by HPLC

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8310 |
| Field ID: | MW-7.1-081805 | Batch#: | 105025 |
| Lab ID: | 181361-007 | Sampled: | 08/18/05 |
| Matrix: | Water | Received: | 08/19/05 |
| Units: | ug/L | Prepared: | 08/20/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/23/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Naphthalene | ND | 0.95 | 0.07 |
| Acenaphthylene | ND | 1.9 | 0.09 |
| Acenaphthene | ND | 0.95 | 0.06 |
| Fluorene | ND | 0.19 | 0.01 |
| Phenanthrene | ND | 0.10 | 0.008 |
| Anthracene | ND | 0.10 | 0.008 |
| Fluoranthene | ND | 0.19 | 0.01 |
| Pyrene | ND | 0.10 | 0.007 |
| Benzo(a)anthracene | ND | 0.10 | 0.005 |
| Chrysene | ND | 0.10 | 0.006 |
| Benzo(b)fluoranthene | ND | 0.19 | 0.009 |
| Benzo(k)fluoranthene | ND | 0.10 | 0.005 |
| Benzo(a)pyrene | ND | 0.10 | 0.01 |
| Dibenz(a,h)anthracene | ND | 0.19 | 0.008 |
| Benzo(g,h,i)perylene | ND | 0.19 | 0.009 |
| Indeno(1,2,3-cd)pyrene | ND | 0.10 | 0.006 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1-Methylnaphthalene (UV) | 76 | 58-132 |
| 1-Methylnaphthalene (F) | 82 | 56-135 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



26.0

Curtis & Tompkins, Ltd.
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# Polynuclear Aromatics by HPLC

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8310 |
| Field ID: | MW-10.4-081805 | Batch#: | 105025 |
| Lab ID: | 181361-008 | Sampled: | 08/18/05 |
| Matrix: | Water | Received: | 08/19/05 |
| Units: | ug/L | Prepared: | 08/20/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/23/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Naphthalene | ND | 1.0 | 0.07 |
| Acenaphthylene | ND | 2.0 | 0.09 |
| Acenaphthene | ND | 1.0 | 0.06 |
| Fluorene | ND | 0.20 | 0.02 |
| Phenanthrene | ND | 0.10 | 0.009 |
| Anthracene | ND | 0.10 | 0.008 |
| Fluoranthene | ND | 0.20 | 0.02 |
| Pyrene | ND | 0.10 | 0.007 |
| Benzo(a)anthracene | ND | 0.10 | 0.005 |
| Chrysene | ND | 0.10 | 0.007 |
| Benzo(b)fluoranthene | ND | 0.20 | 0.01 |
| Benzo(k)fluoranthene | ND | 0.10 | 0.005 |
| Benzo(a)pyrene | ND | 0.10 | 0.01 |
| Dibenz(a,h)anthracene | ND | 0.20 | 0.009 |
| Benzo(g,h,i)perylene | ND | 0.20 | 0.01 |
| Indeno(1,2,3-cd)pyrene | ND | 0.10 | 0.006 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1-Methylnaphthalene (UV) | 76 | 58-132 |
| 1-Methylnaphthalene (F) | 81 | 56-135 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



27.0

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Analytical Laboratories, Since 1878

Batch QC Report

## Polynuclear Aromatics by HPLC

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8310 |
| Type: | BLANK | Diln Fac: | 1.000 |
| Lab ID: | QC305823 | Batch#: | 105025 |
| Matrix: | Water | Prepared: | 08/20/05 |
| Units: | ug/L | Analyzed: | 08/22/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Naphthalene | ND | 1.0 | 0.07 |
| Acenaphthylene | ND | 2.0 | 0.09 |
| Acenaphthene | ND | 1.0 | 0.06 |
| Fluorene | ND | 0.20 | 0.02 |
| Phenanthrene | ND | 0.10 | 0.009 |
| Anthracene | ND | 0.10 | 0.008 |
| Fluoranthene | ND | 0.20 | 0.02 |
| Pyrene | ND | 0.10 | 0.007 |
| Benzo(a)anthracene | ND | 0.10 | 0.005 |
| Chrysene | ND | 0.10 | 0.007 |
| Benzo(b)fluoranthene | ND | 0.20 | 0.01 |
| Benzo(k)fluoranthene | ND | 0.10 | 0.005 |
| Benzo(a)pyrene | ND | 0.10 | 0.008 |
| Dibenz(a,h)anthracene | ND | 0.20 | 0.009 |
| Benzo(g,h,i)perylene | ND | 0.20 | 0.01 |
| Indeno(1,2,3-cd)pyrene | ND | 0.10 | 0.006 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1-Methylnaphthalene (UV) | 86 | 58-132 |
| 1-Methylnaphthalene (F) | 97 | 56-135 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



28.0

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Batch QC Report

## Polynuclear Aromatics by HPLC

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8310 |
| Type: | LCS | Diln Fac: | 1.000 |
| Lab ID: | QC305824 | Batch#: | 105025 |
| Matrix: | Water | Prepared: | 08/20/05 |
| Units: | ug/L | Analyzed: | 08/22/05 |

| Analyte | Spiked | Result | %REC | Limits |
|---|---|---|---|---|
| Naphthalene | 10.00 | 8.453 | 85 | 67-120 |
| Acenaphthylene | 20.00 | 16.65 | 83 | 70-120 |
| Acenaphthene | 10.00 | 8.799 | 88 | 66-120 |
| Fluorene | 2.000 | 1.721 | 86 | 69-120 |
| Phenanthrene | 1.000 | 0.9262 | 93 | 63-120 |
| Anthracene | 1.000 | 0.9522 | 95 | 63-120 |
| Benzo(k)fluoranthene | 1.000 | 0.9185 | 92 | 65-124 |
| Indeno(1,2,3-cd)pyrene | 1.000 | 0.9267 | 93 | 62-123 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1-Methylnaphthalene (UV) | 80 | 58-132 |
| 1-Methylnaphthalene (F) | 90 | 56-135 |



29.0

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Batch QC Report

## Polynuclear Aromatics by HPLC

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8310 |
| Field ID: | MW2.1-081505 | Batch#: | 105025 |
| MSS Lab ID: | 181301-002 | Sampled: | 08/15/05 |
| Matrix: | Water | Received: | 08/17/05 |
| Units: | ug/L | Prepared: | 08/20/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/22/05 |

Type: MS Lab ID: QC305825

| Analyte | MSS Result | Spiked | Result | %REC | Limits |
|---|---|---|---|---|---|
| Naphthalene | <0.06891 | 9.524 | 8.023 | 84 | 42-122 |
| Acenaphthylene | <0.09010 | 19.05 | 15.65 | 82 | 51-126 |
| Acenaphthene | <0.06131 | 9.524 | 8.180 | 86 | 41-156 |
| Fluorene | <0.01469 | 1.905 | 1.608 | 84 | 39-150 |
| Phenanthrene | <0.008430 | 0.9524 | 0.8732 | 92 | 25-205 |
| Anthracene | <0.007771 | 0.9524 | 0.8998 | 94 | 56-151 |
| Benzo(k)fluoranthene | <0.004910 | 0.9524 | 0.8552 | 90 | 18-146 |
| Indeno(1,2,3-cd)pyrene | <0.006091 | 0.9524 | 0.8611 | 90 | 55-159 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1-Methylnaphthalene (UV) | 81 | 58-132 |
| 1-Methylnaphthalene (F) | 91 | 56-135 |

Type: MSD Lab ID: QC305826

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|
| Naphthalene | 9.524 | 7.427 | 78 | 42-122 | 8 | 36 |
| Acenaphthylene | 19.05 | 14.70 | 77 | 51-126 | 6 | 34 |
| Acenaphthene | 9.524 | 7.703 | 81 | 41-156 | 6 | 38 |
| Fluorene | 1.905 | 1.547 | 81 | 39-150 | 4 | 35 |
| Phenanthrene | 0.9524 | 0.8536 | 90 | 25-205 | 2 | 33 |
| Anthracene | 0.9524 | 0.8474 | 89 | 56-151 | 6 | 34 |
| Benzo(k)fluoranthene | 0.9524 | 0.8459 | 89 | 18-146 | 1 | 34 |
| Indeno(1,2,3-cd)pyrene | 0.9524 | 0.8545 | 90 | 55-159 | 1 | 33 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1-Methylnaphthalene (UV) | 75 | 58-132 |
| 1-Methylnaphthalene (F) | 85 | 56-135 |

RPD= Relative Percent Difference



30.0

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# Dissolved California Title 26 Metals

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Project#: | 16017.01 |
| Client: | Acton Mickelson Environmental | Location: | Former GA-Pacific Sawmill |
| Field ID: | MW-4.1-081805 | Units: | ug/L |
| Lab ID: | 181361-001 | Sampled: | 08/18/05 |
| Matrix: | Filtrate | Received: | 08/19/05 |

| Analyte | Result | RL | Diln Fac | Batch# | Prepared | Analyzed | Prep | Analysis |
|---|---|---|---|---|---|---|---|---|
| Antimony | ND | 1.0 | 1.000 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Arsenic | 2.0 | 1.0 | 1.000 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Barium | 4,200 | 50 | 50.00 | 105083 | 08/23/05 | 08/29/05 | 200.8 | EPA 6020 |
| Beryllium | ND | 1.0 | 1.000 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Cadmium | ND | 1.0 | 1.000 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Chromium | ND | 1.0 | 1.000 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Cobalt | ND | 1.0 | 1.000 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Copper | 2.7 | 1.0 | 1.000 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Lead | ND | 1.0 | 1.000 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Mercury | ND | 0.20 | 1.000 | 105037 | 08/22/05 | 08/22/05 | METHOD | EPA 7470A |
| Molybdenum | ND | 1.0 | 1.000 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Nickel | ND | 1.0 | 1.000 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Selenium | ND | 1.0 | 1.000 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Silver | ND | 1.0 | 1.000 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Thallium | ND | 1.0 | 1.000 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Vanadium | 1.1 | 1.0 | 1.000 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Zinc | 25 | 1.0 | 1.000 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |

ND= Not Detected
RL= Reporting Limit



41.0

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# Dissolved California Title 26 Metals

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Project#: | 16017.01 |
| Client: | Acton Mickelson Environmental | Location: | Former GA-Pacific Sawmill |
| Field ID: | MW-4.2-081805 | Diln Fac: | 1.000 |
| Lab ID: | 181361-002 | Sampled: | 08/18/05 |
| Matrix: | Filtrate | Received: | 08/19/05 |
| Units: | ug/L | | |

| Analyte | Result | RL | Batch# | Prepared | Analyzed | Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Antimony | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Arsenic | 2.0 | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Barium | 120 | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Beryllium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Cadmium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Chromium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Cobalt | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Copper | 1.1 | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Lead | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Mercury | ND | 0.20 | 105037 | 08/22/05 | 08/22/05 | METHOD | EPA 7470A |
| Molybdenum | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Nickel | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Selenium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Silver | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Thallium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Vanadium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Zinc | 9.4 | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |

ND= Not Detected
RL= Reporting Limit



42.0

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# Dissolved California Title 26 Metals

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Project#: | 16017.01 |
| Client: | Acton Mickelson Environmental | Location: | Former GA-Pacific Sawmill |
| Field ID: | MW-4.3-081705 | Diln Fac: | 1.000 |
| Lab ID: | 181361-003 | Sampled: | 08/17/05 |
| Matrix: | Filtrate | Received: | 08/19/05 |
| Units: | ug/L | | |

| Analyte | Result | RL | Batch# | Prepared | Analyzed | Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Antimony | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Arsenic | 1.3 | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Barium | 45 | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Beryllium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Cadmium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Chromium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Cobalt | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Copper | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Lead | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Mercury | ND | 0.20 | 105037 | 08/22/05 | 08/22/05 | METHOD | EPA 7470A |
| Molybdenum | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Nickel | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Selenium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Silver | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Thallium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Vanadium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Zinc | 3.4 | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |

ND= Not Detected
RL= Reporting Limit



43.0

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Analytical Laboratories, Since 1878

# Dissolved California Title 26 Metals

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Project#: | 16017.01 |
| Client: | Acton Mickelson Environmental | Location: | Former GA-Pacific Sawmill |
| Field ID: | MW-4.4-081705 | Diln Fac: | 1.000 |
| Lab ID: | 181361-004 | Sampled: | 08/17/05 |
| Matrix: | Filtrate | Received: | 08/19/05 |
| Units: | ug/L | | |

| Analyte | Result | RL | Batch# | Prepared | Analyzed | Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Antimony | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Arsenic | 3.5 | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Barium | 110 | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Beryllium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Cadmium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Chromium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Cobalt | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Copper | 1.1 | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Lead | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Mercury | ND | 0.20 | 105037 | 08/22/05 | 08/22/05 | METHOD | EPA 7470A |
| Molybdenum | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Nickel | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Selenium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Silver | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Thallium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Vanadium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Zinc | 12 | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |

ND= Not Detected
RL= Reporting Limit



44.0

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Analytical Laboratories, Since 1878

# Dissolved California Title 26 Metals

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Project#: | 16017.01 |
| Client: | Acton Mickelson Environmental | Location: | Former GA-Pacific Sawmill |
| Field ID: | MW-5.8-081705 | Diln Fac: | 1.000 |
| Lab ID: | 181361-005 | Sampled: | 08/17/05 |
| Matrix: | Filtrate | Received: | 08/19/05 |
| Units: | ug/L | | |

| Analyte | Result | RL | Batch# | Prepared | Analyzed | Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Antimony | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Arsenic | 1.7 | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Barium | 76 | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Beryllium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Cadmium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Chromium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Cobalt | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Copper | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Lead | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Mercury | ND | 0.20 | 105037 | 08/22/05 | 08/22/05 | METHOD | EPA 7470A |
| Molybdenum | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Nickel | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Selenium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Silver | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Thallium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Vanadium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Zinc | 10 | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |

ND= Not Detected
RL= Reporting Limit



45.0

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Analytical Laboratories, Since 1878

# Dissolved California Title 26 Metals

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Project#: | 16017.01 |
| Client: | Acton Mickelson Environmental | Location: | Former GA-Pacific Sawmill |
| Field ID: | MW-5.9-081805 | Units: | ug/L |
| Lab ID: | 181361-006 | Sampled: | 08/18/05 |
| Matrix: | Filtrate | Received: | 08/19/05 |

| Analyte | Result | RL | Diln Fac | Batch# | Prepared | Analyzed | Prep | Analysis |
|---|---|---|---|---|---|---|---|---|
| Antimony | ND | 1.0 | 1.000 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Arsenic | ND | 1.0 | 1.000 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Barium | 260 | 2.0 | 2.000 | 105083 | 08/23/05 | 08/29/05 | 200.8 | EPA 6020 |
| Beryllium | ND | 1.0 | 1.000 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Cadmium | ND | 1.0 | 1.000 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Chromium | ND | 1.0 | 1.000 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Cobalt | ND | 1.0 | 1.000 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Copper | 1.3 | 1.0 | 1.000 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Lead | ND | 1.0 | 1.000 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Mercury | ND | 0.20 | 1.000 | 105037 | 08/22/05 | 08/22/05 | METHOD | EPA 7470A |
| Molybdenum | ND | 1.0 | 1.000 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Nickel | ND | 1.0 | 1.000 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Selenium | ND | 1.0 | 1.000 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Silver | ND | 1.0 | 1.000 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Thallium | ND | 1.0 | 1.000 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Vanadium | ND | 1.0 | 1.000 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Zinc | 11 | 1.0 | 1.000 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |

ND= Not Detected
RL= Reporting Limit



46.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Dissolved California Title 26 Metals

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Project#: | 16017.01 |
| Client: | Acton Mickelson Environmental | Location: | Former GA-Pacific Sawmill |
| Field ID: | MW-7.1-081805 | Diln Fac: | 1.000 |
| Lab ID: | 181361-007 | Sampled: | 08/18/05 |
| Matrix: | Filtrate | Received: | 08/19/05 |
| Units: | ug/L | | |

| Analyte | Result | RL | Batch# | Prepared | Analyzed | Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Antimony | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Arsenic | 1.1 | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Barium | 53 | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Beryllium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Cadmium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Chromium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Cobalt | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Copper | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Lead | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Mercury | ND | 0.20 | 105037 | 08/22/05 | 08/22/05 | METHOD | EPA 7470A |
| Molybdenum | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Nickel | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Selenium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Silver | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Thallium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Vanadium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Zinc | 5.9 | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |

ND= Not Detected
RL= Reporting Limit



47.0

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# Dissolved California Title 26 Metals

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Project#: | 16017.01 |
| Client: | Acton Mickelson Environmental | Location: | Former GA-Pacific Sawmill |
| Field ID: | MW-10.4-081805 | Diln Fac: | 1.000 |
| Lab ID: | 181361-008 | Sampled: | 08/18/05 |
| Matrix: | Filtrate | Received: | 08/19/05 |
| Units: | ug/L | | |

| Analyte | Result | RL | Batch# | Prepared | Analyzed | Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Antimony | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Arsenic | 8.0 | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Barium | 120 | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Beryllium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Cadmium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Chromium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Cobalt | 3.0 | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Copper | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Lead | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Mercury | ND | 0.20 | 105037 | 08/22/05 | 08/22/05 | METHOD | EPA 7470A |
| Molybdenum | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Nickel | 1.0 | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Selenium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Silver | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Thallium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Vanadium | ND | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |
| Zinc | 12 | 1.0 | 105083 | 08/23/05 | 08/26/05 | 200.8 | EPA 6020 |

ND= Not Detected
RL= Reporting Limit



48.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

## Dissolved California Title 26 Metals

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | METHOD |
| Project#: | 16017.01 | Analysis: | EPA 7470A |
| Analyte: | Mercury | Diln Fac: | 1.000 |
| Type: | BLANK | Batch#: | 105037 |
| Lab ID: | QC305875 | Prepared: | 08/22/05 |
| Matrix: | Filtrate | Analyzed: | 08/22/05 |
| Units: | ug/L | | |

| Result | RL |
|---|---|
| ND | 0.20 |

ND= Not Detected
RL= Reporting Limit



49.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

## Dissolved California Title 26 Metals

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | METHOD |
| Project#: | 16017.01 | Analysis: | EPA 7470A |
| Analyte: | Mercury | Batch#: | 105037 |
| Matrix: | Filtrate | Prepared: | 08/22/05 |
| Units: | ug/L | Analyzed: | 08/22/05 |
| Diln Fac: | 1.000 | | |

| Type | Lab ID | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|---|
| BS | QC305876 | 5.000 | 5.260 | 105 | 80-120 | | |
| BSD | QC305877 | 5.000 | 4.830 | 97 | 80-120 | 9 | 20 |

RPD= Relative Percent Difference



51.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

## Dissolved California Title 26 Metals

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | METHOD |
| Project#: | 16017.01 | Analysis: | EPA 7470A |
| Analyte: | Mercury | Batch#: | 105037 |
| Field ID: | ZZZZZZZZZZ | Sampled: | 08/17/05 |
| MSS Lab ID: | 181342-002 | Received: | 08/18/05 |
| Matrix: | Water | Prepared: | 08/22/05 |
| Units: | ug/L | Analyzed: | 08/22/05 |
| Diln Fac: | 1.000 | | |

| Type | Lab ID | MSS Result | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|---|---|
| MS | QC305878 | <0.07957 | 5.000 | 5.140 | 103 | 80-120 | | |
| MSD | QC305879 | | 5.000 | 5.030 | 101 | 80-120 | 2 | 20 |

RPD= Relative Percent Difference



52.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

## Dissolved California Title 26 Metals

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | 200.8 |
| Project#: | 16017.01 | Analysis: | EPA 6020 |
| Type: | BLANK | Diln Fac: | 5.000 |
| Lab ID: | QC306066 | Batch#: | 105083 |
| Matrix: | Filtrate | Prepared: | 08/23/05 |
| Units: | ug/L | Analyzed: | 08/26/05 |

| Analyte | Result | RL |
|---|---|---|
| Antimony | ND | 5.0 |
| Arsenic | ND | 5.0 |
| Barium | ND | 5.0 |
| Beryllium | ND | 5.0 |
| Cadmium | ND | 5.0 |
| Chromium | ND | 5.0 |
| Cobalt | ND | 5.0 |
| Copper | ND | 5.0 |
| Lead | ND | 5.0 |
| Molybdenum | ND | 5.0 |
| Nickel | ND | 5.0 |
| Selenium | ND | 5.0 |
| Silver | ND | 5.0 |
| Thallium | ND | 5.0 |
| Vanadium | ND | 5.0 |
| Zinc | ND | 5.0 |

ND= Not Detected
RL= Reporting Limit



50.1

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

## Dissolved California Title 26 Metals

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | 200.8 |
| Project#: | 16017.01 | Analysis: | EPA 6020 |
| Matrix: | Filtrate | Batch#: | 105083 |
| Units: | ug/L | Prepared: | 08/23/05 |
| Diln Fac: | 1.000 | | |

Type: BS Lab ID: QC306067

| Analyte | Spiked | Result | %REC | Limits | Analyzed |
|---|---|---|---|---|---|
| Antimony | 100.0 | 101.0 | 101 | 80-120 | 08/26/05 |
| Arsenic | 100.0 | 101.3 | 101 | 80-120 | 08/26/05 |
| Barium | 100.0 | 102.8 | 103 | 80-120 | 08/26/05 |
| Beryllium | 100.0 | 103.8 | 104 | 80-120 | 08/26/05 |
| Cadmium | 100.0 | 100.7 | 101 | 80-120 | 08/26/05 |
| Chromium | 100.0 | 112.2 | 112 | 80-120 | 08/26/05 |
| Cobalt | 100.0 | 109.2 | 109 | 80-120 | 08/26/05 |
| Copper | 100.0 | 107.2 | 107 | 80-120 | 08/26/05 |
| Lead | 100.0 | 105.0 | 105 | 80-120 | 08/26/05 |
| Molybdenum | 100.0 | 102.5 | 103 | 80-120 | 08/26/05 |
| Nickel | 100.0 | 106.4 | 106 | 80-120 | 08/26/05 |
| Selenium | 100.0 | 94.47 | 94 | 80-120 | 08/26/05 |
| Silver | 100.0 | 106.2 | 106 | 80-120 | 08/26/05 |
| Thallium | 100.0 | 102.0 | 102 | 80-120 | 08/26/05 |
| Vanadium | 100.0 | 112.3 | 112 | 80-120 | 08/26/05 |
| Zinc | 100.0 | 100.5 | 101 | 80-120 | 08/29/05 |

Type: BSD Lab ID: QC306068

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim | Analyzed |
|---|---|---|---|---|---|---|---|
| Antimony | 100.0 | 100.7 | 101 | 80-120 | 0 | 20 | 08/26/05 |
| Arsenic | 100.0 | 102.4 | 102 | 80-120 | 1 | 20 | 08/26/05 |
| Barium | 100.0 | 102.6 | 103 | 80-120 | 0 | 20 | 08/26/05 |
| Beryllium | 100.0 | 105.3 | 105 | 80-120 | 1 | 20 | 08/26/05 |
| Cadmium | 100.0 | 100.9 | 101 | 80-120 | 0 | 20 | 08/26/05 |
| Chromium | 100.0 | 112.0 | 112 | 80-120 | 0 | 20 | 08/26/05 |
| Cobalt | 100.0 | 109.3 | 109 | 80-120 | 0 | 20 | 08/26/05 |
| Copper | 100.0 | 107.8 | 108 | 80-120 | 1 | 20 | 08/26/05 |
| Lead | 100.0 | 103.7 | 104 | 80-120 | 1 | 20 | 08/26/05 |
| Molybdenum | 100.0 | 102.1 | 102 | 80-120 | 0 | 20 | 08/26/05 |
| Nickel | 100.0 | 108.7 | 109 | 80-120 | 2 | 20 | 08/26/05 |
| Selenium | 100.0 | 95.65 | 96 | 80-120 | 1 | 20 | 08/26/05 |
| Silver | 100.0 | 107.2 | 107 | 80-120 | 1 | 20 | 08/26/05 |
| Thallium | 100.0 | 102.9 | 103 | 80-120 | 1 | 20 | 08/26/05 |
| Vanadium | 100.0 | 110.7 | 111 | 80-120 | 1 | 20 | 08/26/05 |
| Zinc | 100.0 | 98.09 | 98 | 80-120 | 2 | 20 | 08/29/05 |

RPD= Relative Percent Difference



53.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

## Dissolved California Title 26 Metals

| | | | |
|---|---|---|---|
| Lab #: | 181361 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | 200.8 |
| Project#: | 16017.01 | Analysis: | EPA 6020 |
| Field ID: | MW2.1-081505 | Batch#: | 105083 |
| MSS Lab ID: | 181301-002 | Sampled: | 08/15/05 |
| Matrix: | Filtrate | Received: | 08/17/05 |
| Units: | ug/L | Prepared: | 08/23/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/26/05 |

Type: MS Lab ID: QC306069

| Analyte | MSS Result | Spiked | Result | %REC | Limits |
|---|---|---|---|---|---|
| Antimony | 0.3033 | 100.0 | 98.79 | 98 | 80-120 |
| Arsenic | 1.024 | 100.0 | 98.54 | 98 | 80-120 |
| Barium | 11.60 | 100.0 | 113.1 | 102 | 77-125 |
| Beryllium | <0.05514 | 100.0 | 101.9 | 102 | 80-120 |
| Cadmium | <0.1409 | 100.0 | 94.80 | 95 | 78-120 |
| Chromium | 0.9425 | 100.0 | 104.6 | 104 | 80-120 |
| Cobalt | 0.4452 | 100.0 | 101.8 | 101 | 80-120 |
| Copper | 0.7430 | 100.0 | 102.3 | 102 | 80-120 |
| Lead | <0.2399 | 100.0 | 102.6 | 103 | 80-120 |
| Molybdenum | 0.2648 | 100.0 | 98.91 | 99 | 80-120 |
| Nickel | 0.3999 | 100.0 | 102.5 | 102 | 77-120 |
| Selenium | 0.7294 | 100.0 | 89.14 | 88 | 64-123 |
| Silver | <0.04084 | 100.0 | 100.9 | 101 | 71-120 |
| Thallium | 0.1154 | 100.0 | 99.37 | 99 | 62-120 |
| Vanadium | 0.4369 | 100.0 | 105.9 | 105 | 78-130 |
| Zinc | 36.34 | 100.0 | 99.29 | 63 * | 64-129 |

Type: MSD Lab ID: QC306070

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|
| Antimony | 100.0 | 97.74 | 97 | 80-120 | 1 | 20 |
| Arsenic | 100.0 | 97.33 | 96 | 80-120 | 1 | 20 |
| Barium | 100.0 | 113.2 | 102 | 77-125 | 0 | 20 |
| Beryllium | 100.0 | 99.40 | 99 | 80-120 | 2 | 20 |
| Cadmium | 100.0 | 93.60 | 94 | 78-120 | 1 | 20 |
| Chromium | 100.0 | 105.0 | 104 | 80-120 | 0 | 20 |
| Cobalt | 100.0 | 100.1 | 100 | 80-120 | 2 | 20 |
| Copper | 100.0 | 100.8 | 100 | 80-120 | 1 | 20 |
| Lead | 100.0 | 101.2 | 101 | 80-120 | 1 | 20 |
| Molybdenum | 100.0 | 98.78 | 99 | 80-120 | 0 | 20 |
| Nickel | 100.0 | 102.0 | 102 | 77-120 | 0 | 20 |
| Selenium | 100.0 | 89.06 | 88 | 64-123 | 0 | 20 |
| Silver | 100.0 | 99.37 | 99 | 71-120 | 2 | 20 |
| Thallium | 100.0 | 98.64 | 99 | 62-120 | 1 | 20 |
| Vanadium | 100.0 | 106.1 | 106 | 78-130 | 0 | 20 |
| Zinc | 100.0 | 121.1 | 85 | 64-129 | 20 | 28 |

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference



54.0

# Acton • Mickelson • Environmental, Inc.

Chain of Custody and Analysis Request Form

Geotracker Global ID T0604591192

18361

☒ Standard TAT ☐ RUSH TAT ☐ 24 hr. TAT ☐ 48 hr. TAT ☐ 72 hr. TAT ☒ 5 day TAT

Page ___ of ___ | Chain of Custody No. 4283

**Send Results to:**
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762
(916) 939-7550, FAX (916) 939-7570
Attn.: Jeff Heglie

- ☐ Preliminary Fax Result
- ☒ Sample Receipt/ Log-In Confirmation
- ☒ Electronic Data Deliverables
- ☒ Geotracker EDF
- ☐ Raw Data Deliverables
- ☐ Call with Verbal Results

| Lab ID (LAB USE ONLY) | Field Point ID | Sample ID | Date Collected | Time Collected | Matrix | Container | Number of Containers | Preservative | Requested Analysis: 8015B TPH/DTPH | 8270C SVOCs | 8082 PCB Congeners | 8310 PAH | 6020B/7471 Metals | Temperature | | | | | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | *1 | | | | *2 | | | | | | |
| | | MW-4.1-08 18 05 | 8/18/05 | 0940 | GW | GB | 1 | C | X | | | | | | | | | | *1 Use Silica Gel Cleanup |
| | | MW-4.1-08 18 05 | 8/18/05 | 0940 | GW | GB | 2 | C | | X | | | | | | | | | *2 Metals dissolved Field Filtered |
| | | MW-4.1-08 18 05 | 8/18/05 | 0940 | GW | GB | 1 | C | | | X | | | | | | | | |
| | | MW-4.1-08 18 05 | 8/18/05 | 0940 | GW | GB | 1 | C | | | | X | | | | | | | |
| | | MW-4.1-08 18 05 | 8/18/05 | 0940 | GW | P | 1 | $HNO_3$ | | | | | X | | | | | | |
| | | Temperature | 8/18/05 | — | W | P | 1 | C | | | | | | X | | | | | 1 percooler |

| Signature | Date | Time | Signature | Date | Time |
|---|---|---|---|---|---|
| Relinquished by: Thomas Carroll | 8/18/05 | 1430 | Relinquished by: | | |
| Received by: [illegible] | 8/19/05 | 1200 | Received by: | | |
| Relinquished by: | | | Relinquished by: | | |
| Received by: | | | Received by: | | |

**Matrix:** W - Water; DW - Drinking Water; SW - Surface Water; GW - Ground Water; WW - Waste Water; RW - Reagent Water; S - Soil; SE - Sediment; SV - Soil Vapor; AA - Ambient Air; WS - Waste (Solid); O - Other
**Container:** GB - Glass Bottle (Amber); V - 40 ml VOA Vial; BT, ST, PT - Brass, Steel, and Plastic Tube; P - Polythethylene; GJ - Glass Jar, SC - Summa Canister; TD - Tedlar
**Preservative:** C - Cold; HS - Sulfuric Acid; HC - Hydrochloric Acid; HN - Nitric Acid; Na - Sodium Hydroxide; O - Other

Project Name and Location: Former Georgia-Pacific Sawmill
Project Number: 16017.01
Receiving Lab: Curtis & Tompkins
Sampled by: Thomas Carroll (Print Name) Thomas Carroll (Signature)

Cooler Temp = 3.2°

ORIGINAL – Laboratory (Return with Report) YELLOW - Laboratory PINK - Originator

# Acton - Mickelson • Environmental, Inc.

Chain of Custody and Analysis Request Form

Geotracker Global ID T0604591182

18|361

☒ Standard TAT ☐ RUSH TAT ☐ 24 hr. TAT ☐ 48 hr. TAT ☐ 72 hr. TAT ☒ 5 day TAT

Page ___ of ___ | Chain of Custody # 4284

**Send Results to:**
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762
(916) 939-7550, FAX (916) 939-7570
Attn.: Jeff Heglie

- ☐ Preliminary Fax Result
- ☒ Sample Receipt/ Log-In Confirmation
- ☒ Electronic Data Deliverables
- ☒ Geotracker EDF
- ☐ Raw Data Deliverables
- ☐ Call with Verbal Results

| Lab ID (LAB USE ONLY) | Field Point ID | Sample ID | Date Collected | Time Collected | Matrix | Container | Number of Containers | Preservative | Requested Analysis: 8015 TPHd+TPHg | 8270C SVOCs | 8310 PAH | 8082 PCB Congeners | 6020B/7471 Metals | Temperature | *1 | *2 | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MW-4.2-08 18 05 | 8/18/05 | 0850 | GW | GB | 1 | C | X | | | | | | | | *1 Use Silica Gel Cleanup |
| | | MW-4.2-08 18 05 | 8/18/05 | 0850 | GW | | 2 | C | | X | | | | | | | *2 Metals, dissolved Field Filtered |
| | | MW-4.2-08 18 05 | 8/18/05 | 0850 | | | 1 | C | | | X | | | | | | |
| | | MW-4.2-08 18 05 | 8/18/05 | 0850 | | | 1 | C | | | | X | | | | | |
| | | MW-4.2-08 18 05 | 8/18/05 | 0850 | | P | 1 | HNO3 | | | | | X | | | | |
| | | Temperature | 8/18/05 | — | W | P | 1 | C | | | | | | X | | | 1 per cooler |

| Signature | Date | Time | Signature | Date | Time |
|---|---|---|---|---|---|
| Relinquished by: Thomas Carroll | | | Relinquished by: | | |
| Received by: [signature] | 8/19 | 12:00 | Received by: | | |
| Relinquished by: | | | Relinquished by: | | |
| Received by: | | | Received by: | | |

**Matrix:** W - Water; DW - Drinking Water; SW - Surface Water; GW - Ground Water; WW - Waste Water; RW - Reagent Water; S - Soil; SE - Sediment; SV - Soil Vapor; AA - Ambient Air; WS - Waste (Solid); O - Other
**Container:** GB - Glass Bottle (Amber); V - 40 ml VOA Vial; BT, ST, PT - Brass, Steel, and Plastic Tube; P - Polythethylene; GJ - Glass Jar, SC - Summa Canister; TD - Tedlar
**Preservative:** C - Cold; HS - Sulfuric Acid; HC - Hydrochloric Acid; HN - Nitric Acid; Na - Sodium Hydroxide; O - Other

Project Name and Location: Former Georgia-Pacific Sawmill
Project Number: 1601701
Receiving Lab: Curtis & Tompkins
Sampled by: Thomas Carroll (Print Name) [signature] (Signature)

Cooler Temp = 2.4°

ORIGINAL – Laboratory (Return with Report) YELLOW - Laboratory PINK - Originator

# Acton - Mickelson • Environmental, Inc.

Chain of Custody and Analysis Request Form

Geotracker Global ID T0604591192

| Page | of | Chain of Custody # 4286 |
|---|---|---|

☒ Standard TAT ☐ RUSH TAT ☐ 24 hr. TAT ☐ 48 hr. TAT ☐ 72 hr. TAT ☒ 5 day TAT

**Send Results to:**
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762
(916) 939-7550, FAX (916) 939-7570
Attn.: Jeff Heglie

- ☐ Preliminary Fax Result
- ☒ Sample Receipt/ Log-In Confirmation
- ☒ Electronic Data Deliverables
- ☒ Geotracker EDF
- ☒ Raw Data Deliverables
- ☐ Call with Verbal Results

165361

| Lab ID (LAB USE ONLY) | Field Point ID | Sample ID | Date Collected | Time Collected | Matrix | Container | Number of Containers | Preservative | Requested Analysis: 8015B TPHd + TPHg (#1) | 8270C SVOC's | 8082 PCB Congeners | 8310 PAHs | 6020B/7471 Metals (#2) | Temperature | | | | | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MW-4.3-08 17 05 | 8/17/05 | 1435 | GW | GB | 1 | C | X | | | | | | | | | | #1 use Silica Gel Cleanup |
| | | MW-4.3-08 17 05 | 8/17/05 | 1435 | GW | GB | 2 | C | | X | | | | | | | | | #2 Metals, dissolved Field Filtered |
| 3 | | MW-4.3-08 17 05 | 8/17/05 | 1435 | GW | GB | 1 | C | | | X | | | | | | | | |
| | | MW-4.3-08 17 05 | 8/17/05 | 1435 | GW | GB | 1 | C | | | | X | | | | | | | |
| | | MW-4.3-08 17 05 | 8/17/05 | 1435 | GW | P | 1 | $HNO_3$ | | | | | X | | | | | | |
| | | Temperature | 8/ /05 | — | W | P | 1 | C | | | | | | X | | | | | 1 per cooler |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |

| Signature | Date | Time | Signature | Date | Time |
|---|---|---|---|---|---|
| Relinquished by: Thomas Carroll | 8/18/05 | 1430 | Relinquished by: | | |
| Received by: [illegible] | 8/19/05 | 1200 | Received by: | | |
| Relinquished by: | | | Relinquished by: | | |
| Received by: | | | Received by: | | |

**Matrix:** W - Water; DW - Drinking Water; SW - Surface Water; GW - Ground Water; WW - Waste Water; RW - Reagent Water; S - Soil; SE - Sediment; SV - Soil Vapor; AA - Ambient Air; WS - Waste (Solid); O - Other
**Container:** GB - Glass Bottle (Amber); V - 40 ml VOA Vial; BT, ST, PT - Brass, Steel, and Plastic Tube; P - Polythethylene; GJ - Glass Jar, SC - Summa Canister; TD - Tedlar
**Preservative:** C - Cold; HS - Sulfuric Acid; HC - Hydrochloric Acid; HN - Nitric Acid; Na - Sodium Hydroxide; O - Other

Project Name and Location: Former Georgia-Pacific Sawmill
Project Number: 16017.01
Receiving Lab: Curtis + Tompkins
Sampled by: Thomas Carroll (Print Name) Thomas Carroll (Signature)

ORIGINAL – Laboratory (Return with Report) YELLOW - Laboratory PINK - Originator

Cooler Temp = 3.3°

# Acton · Mickelson • Environmental, Inc.

Chain of Custody and Analysis Request Form

Geotracker Global ID T0604591192

18136 1

☒ Standard TAT ☐ RUSH TAT ☐ 24 hr. TAT ☐ 48 hr. TAT ☐ 72 hr. TAT ☒ 5 day TAT

Page ___ of ___ | Chain of Custody

**Send Results to:**
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762
(916) 939-7550, FAX (916) 939-7570
Attn.: Jeff Heglie

- ☒ Preliminary Fax Result
- ☒ Sample Receipt/ Log-In Confirmation
- ☒ Electronic Data Deliverables
- ☒ Geotracker EDF
- ☐ Raw Data Deliverables
- ☐ Call with Verbal Results

| Lab ID (LAB USE ONLY) | Field Point ID | Sample ID | Date Collected | Time Collected | Matrix | Container | Number of Containers | Preservative | Requested Analysis: 8015B TPHd & TPHg | 8270C SVOCs | 8082 PCB Congeners | 8310 PAH | 6020B/7471 Metals | Temperature | | | | | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | *1 | | | | | | | | | | |
| | | MW-4.4-08 17 05 | 8/17/05 | 1525 | GW | GB | 1 | C | X | | | | | | | | | | *1 use Silica Gel Cleanup |
| | | MW-4.4-08 17 05 | 8/17/05 | 1525 | GW | GB | 2 | C | | X | | | | | | | | | *2 Metals, dissolved Field Filtered |
| 4 | | MW-4.4-08 17 05 | 8/17/05 | 1525 | GW | GB | 1 | C | | | X | | | | | | | | |
| | | MW-4.4-08 17 05 | 8/17/05 | 1525 | GW | GB | 1 | C | | | | X | | | | | | | |
| | | MW-4.4-08 17 05 | 8/17/05 | 1525 | GW | P | 1 | HNO3 | | | | | X | | | | | | |
| | | Temperature | 8/ /05 | — | W | P | 1 | C | | | | | | X | | | | | 1 per cooler |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |

| Signature | Date | Time | Signature | Date | Time |
|---|---|---|---|---|---|
| Relinquished by: Thomas Carrell | 8/18/05 | 1430 | Relinquished by: | | |
| Received by: [illegible] | 8/19/05 | 1200 | Received by: | | |
| Relinquished by: | | | Relinquished by: | | |
| Received by: | | | Received by: | | |

**Matrix:** W - Water; DW - Drinking Water; SW - Surface Water; GW - Ground Water; WW - Waste Water; RW - Reagent Water; S - Soil; SE - Sediment; SV - Soil Vapor; AA - Ambient Air; WS - Waste (Solid); O - Other
**Container:** GB - Glass Bottle (Amber); V - 40 ml VOA Vial; BT, ST, PT - Brass, Steel, and Plastic Tube; P - Polythethylene; GJ - Glass Jar, SC - Summa Canister; TD - Tedlar
**Preservative:** C - Cold; HS - Sulfuric Acid; HC - Hydrochloric Acid; HN - Nitric Acid; Na - Sodium Hydroxide; O - Other

Project Name and Location: Former Georgia-Pacific Sawmill
Project Number: 16017.01 Receiving Lab: Curtis & Tompkins
Sampled by: Thomas Carrell (Print Name) [illegible] (Signature)

Cooler Temp = 2.2°

ORIGINAL - Laboratory (Return with Report) YELLOW - Laboratory PINK - Originator

# Acton Mickelson • Environmental, Inc.

Chain of Custody and Analysis Request Form

Geotracker Global ID T0604591192

1813601

☒ Standard TAT ☐ RUSH TAT ☐ 24 hr. TAT ☐ 48 hr. TAT ☐ 72 hr. TAT ☒ 5 day TAT

Page ___ of ___ | Chain of Custody No. 4391

**Send Results to:**
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762
(916) 939-7550, FAX (916) 939-7570
Attn.: Jeff Heglie

- ☐ Preliminary Fax Result
- ☒ Sample Receipt/ Log-In Confirmation
- ☒ Electronic Data Deliverables
- ☒ Geotracker EDF
- ☐ Raw Data Deliverables
- ☐ Call with Verbal Results

| Lab ID (LAB USE ONLY) | Field Point ID | Sample ID | Date Collected | Time Collected | Matrix | Container | Number of Containers | Preservative | Requested Analysis: 8015B TPH+TPHD | 8270C SVOC's | 8082 PCB Congeners | 8310 PAH | 6020B/7471 Metals | Temperature | | | | | | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | *1 | | | | *2 | | | | | | | |
| | | MW-5.8-08 17 05 | 8/17/05 | 1335 | GW | GB | 1 | C | X | | | | | | | | | | | *1 use Silica Gel Cleanup |
| | | MW-5.8-08 17 05 | 8/17/05 | 1335 | GW | GB | 2 | C | | X | | | | | | | | | | *2 Metals, dissolved Field Filtered |
| 5 | | MW-5.8-08 17 05 | 8/17/05 | 1335 | GW | GB | 1 | C | | | X | | | | | | | | | |
| | | MW-5.8-08 17 05 | 8/17/05 | 1335 | GW | GB | 1 | C | | | | X | | | | | | | | |
| | | MW-5.8-08 17 05 | 8/17/05 | 1335 | GW | P | 1 | HNO3 | | | | | X | | | | | | | |
| | | Temperature | 8/17/05 | — | W | P | 1 | C | | | | | | X | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |

| Signature | Date | Time | Signature | Date | Time |
|---|---|---|---|---|---|
| Relinquished by: Thomas Carroll | 8/18/05 | 1430 | Relinquished by: | | |
| Received by: [illegible] | 8/19/05 | 1200 | Received by: | | |
| Relinquished by: | | | Relinquished by: | | |
| Received by: | | | Received by: | | |

**Matrix:** W - Water; DW - Drinking Water; SW - Surface Water; GW - Ground Water; WW - Waste Water; RW - Reagent Water; S - Soil; SE - Sediment; SV - Soil Vapor; AA - Ambient Air; WS - Waste (Solid); O - Other
**Container:** GB - Glass Bottle (Amber); V - 40 ml VOA Vial; BT, ST, PT - Brass, Steel, and Plastic Tube; P - Polythethylene; GJ - Glass Jar, SC - Summa Canister; TD - Tedlar
**Preservative:** C - Cold; HS - Sulfuric Acid; HC - Hydrochloric Acid; HN - Nitric Acid; Na - Sodium Hydroxide; O - Other

Project Name and Location: Former Georgia-Pacific Sawmill
Project Number: 16017.01
Receiving Lab: Curtis & Tompkins
Sampled by: Thomas Carroll (Print Name) Thomas Carroll (Signature)

Cooler Temp = 2.3°

ORIGINAL - Laboratory (Return with Report) YELLOW - Laboratory PINK - Originator

# Acton - Mickelson • Environmental, Inc.

Chain of Custody and Analysis Request Form

Geotracker Global ID T0604591192

181361

☒ Standard TAT ☐ RUSH TAT ☐ 24 hr. TAT ☐ 48 hr. TAT ☐ 72 hr. TAT ☒ 5 day TAT

Page ___ of ___ | Chain of Custody No. 4393

**Send Results to:**
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762
(916) 939-7550, FAX (916) 939-7570
Attn.: Jeff Heglie

- ☐ Preliminary Fax Result
- ☒ Sample Receipt/ Log-In Confirmation
- ☒ Electronic Data Deliverables
- ☒ Geotracker EDF
- ☐ Raw Data Deliverables
- ☐ Call with Verbal Results

| Lab ID (LAB USE ONLY) | Field Point ID | Sample ID | Date Collected | Time Collected | Matrix | Container | Number of Containers | Preservative | 8015B TPH-d + TPH-g (*1) | 8270C SVOCs | 8082 PCB Congeners | 8310 PAH | 6020B/7471 Metals (*2) | Temperature | | | | | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MW-5.9-08 18 05 | 8/18/05 | 0810 | GW | GB | 1 | C | X | | | | | | | | | | *1 Use Silica Gel Cleanup |
| | | MW-5.9-08 18 05 | 8/18/05 | 0810 | GW | GB | 2 | C | | X | | | | | | | | | *2 Metals dissolved Field Filtered |
| 16 | | MW-5.9-08 18 05 | 8/18/05 | 0810 | GW | GB | 1 | C | | | X | | | | | | | | |
| | | MW-5.9-08 18 05 | 8/18/05 | 0810 | GW | GB | 1 | C | | | | X | | | | | | | |
| | | MW-5.9-08 18 05 | 8/18/05 | 0810 | GW | P | 1 | HNO3 | | | | | X | | | | | | |
| | | Temperature | 8/18/05 | — | W | P | 1 | C | | | | | | X | | | | | 1 per cooler |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |

| Signature | Date | Time | Signature | Date | Time |
|---|---|---|---|---|---|
| Relinquished by: Thomas Carroll | 8/18/05 | 1430 | Relinquished by: | | |
| Received by: [illegible] | 8/19/05 | 1200 | Received by: | | |
| Relinquished by: | | | Relinquished by: | | |
| Received by: | | | Received by: | | |

**Matrix:** W - Water; DW - Drinking Water; SW - Surface Water; GW - Ground Water; WW - Waste Water; RW - Reagent Water; S - Soil; SE - Sediment; SV - Soil Vapor; AA - Ambient Air; WS - Waste (Solid); O - Other
**Container:** GB - Glass Bottle (Amber); V - 40 ml VOA Vial; BT, ST, PT - Brass, Steel, and Plastic Tube; P - Polythethylene; GJ - Glass Jar, SC - Summa Canister; TD - Tedlar
**Preservative:** C - Cold; HS - Sulfuric Acid; HC - Hydrochloric Acid; HN - Nitric Acid; Na - Sodium Hydroxide; O - Other

Project Name and Location: Former Georgia-Pacific Sawmill
Project Number: 16017.01
Receiving Lab: Curtis + Tompkin
Sampled by: Thomas Carroll (Print Name) Thomas Carroll (Signature)

ORIGINAL – Laboratory (Return with Report) YELLOW - Laboratory PINK - Originator

Cooler Temp = 2°

# Acton - Mickelson • Environmental, Inc.

Chain of Custody and Analysis Request Form

Geotracker Global ID T0604591192

Page 1 of 2 | Chain of Custody # 4394

☒ Standard TAT ☐ RUSH TAT ☐ 24 hr. TAT ☐ 48 hr. TAT ☐ 72 hr. TAT ☒ 5 day TAT

141361

**Send Results to:**
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762
(916) 939-7550, FAX (916) 939-7570
Attn.: Jeff Heglie

- ☐ Preliminary Fax Result
- ☒ Sample Receipt/ Log-In Confirmation
- ☒ Electronic Data Deliverables
- ☒ Geotracker EDF
- ☐ Raw Data Deliverables
- ☐ Call with Verbal Results

| Lab ID (LAB USE ONLY) | Field Point ID | Sample ID | Date Collected | Time Collected | Matrix | Container | Number of Containers | Preservative | 8015B TPH-D+TPH-G | 8270C SVOCs | 8082 PCB Congeners | 8310 PAH | 6020B/7471 Metals | Temperature | | | | | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | *1 | | | | *2 | | | | | | |
| | | MW-7.1-08 18 05 | 8/18/05 | 1020 | GW | GB | 1 | C | X | | | | | | | | | | *1 Use Silica Gel Cleanup |
| | | MW-7.1-08 18 05 | 8/18/05 | 1020 | GW | GB | 2 | C | | X | | | | | | | | | *2 Metals, dissolved Field Filtered |
| | | MW-7.1-08 18 05 | 8/18/05 | 1020 | GW | GB | 1 | C | | | X | | | | | | | | |
| | | MW-7.1-08 18 05 | 8/18/05 | 1020 | GW | GB | 1 | C | | | | X | | | | | | | |
| | | MW-7.1-08 18 05 | 8/18/05 | 1020 | GW | P | 1 | HNO3 | | | | | X | | | | | | |
| | | Temperature | 8/18/05 | — | W | P | 1 | C | | | | | | X | | | | | 1 per cooler |

| Signature | Date | Time | Signature | Date | Time |
|---|---|---|---|---|---|
| Relinquished by: Thomas Carroll | 8/18/05 | 1430 | Relinquished by: | | |
| Received by: [illegible] | 8/19/05 | 1200 | Received by: | | |
| Relinquished by: | | | Relinquished by: | | |
| Received by: | | | Received by: | | |

**Matrix:** W - Water; DW - Drinking Water; SW - Surface Water; GW - Ground Water; WW - Waste Water; RW - Reagent Water; S - Soil; SE - Sediment; SV - Soil Vapor; AA - Ambient Air; WS - Waste (Solid); O - Other
**Container:** GB - Glass Bottle (Amber); V - 40 ml VOA Vial; BT, ST, PT - Brass, Steel, and Plastic Tube; P - Polythethylene; GJ - Glass Jar, SC - Summa Canister; TD - Tedlar
**Preservative:** C - Cold; HS - Sulfuric Acid; HC - Hydrochloric Acid; HN - Nitric Acid; Na - Sodium Hydroxide; O - Other

Project Name and Location: Former Georgia-Pacific Sawmill
Project Number: 16017.01
Receiving Lab: Curtis & Tompkins
Sampled by: Thomas Carroll (Print Name) Thomas Carroll (Signature)

ORIGINAL – Laboratory (Return with Report) YELLOW - Laboratory PINK - Originator

Cooler Temp = 2°

# Acton Mickelson • Environmental, Inc.

Chain of Custody and Analysis Request Form

Geotracker Global ID T0604591192

181361

☒ Standard TAT ☐ RUSH TAT ☐ 24 hr. TAT ☐ 48 hr. TAT ☐ 72 hr. TAT ☒ 5 day TAT

Page 2 of 2

Chain of Custody # 4398

**Send Results to:**
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762
(916) 939-7550, FAX (916) 939-7570
Attn.: Jeff Heglie

- ☐ Preliminary Fax Result
- ☒ Sample Receipt/ Log-In Confirmation
- ☒ Electronic Data Deliverables
- ☒ Geotracker EDF
- ☐ Raw Data Deliverables
- ☐ Call with Verbal Results

| Lab ID (LAB USE ONLY) | Field Point ID | Sample ID | Date Collected | Time Collected | Matrix | Container | Number of Containers | Preservative | Requested Analysis: 8015B TPH d + TPH o (*1) | 8270C SVOCs | 8082 PCB Congeners | 8310 PAHs | 6020B/7471 Metals (*2) | Temperature | | | | | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MW-10.4-08 18 05 | 8/18/05 | 1118 | GW | GB | 1 | C | X | | | | | | | | | | *1 Use Silica Gel Cleanup |
| | | MW-10.4-08 18 05 | 8/18/05 | 1118 | GW | GB | 2 | C | | X | | | | | | | | | *2 Metals, dissolved Field Filtered |
| | | MW-10.4-08 18 05 | 8/18/05 | 1118 | GW | GB | 1 | C | | | X | | | | | | | | |
| | | MW-10.4-08 18 05 | 8/18/05 | 1118 | GW | GB | 1 | C | | | | X | | | | | | | |
| | | MW-10.4-08 18 05 | 8/18/05 | 1118 | GW | P | 1 | $HNO_3$ | | | | | X | | | | | | |
| | | Temperature | 8/18/05 | — | W | P | 1 | C | | | | | | X | | | | | |

| Signature | Date | Time | Signature | Date | Time |
|---|---|---|---|---|---|
| Relinquished by: Thomas Carroll | 8/18/05 | 1430 | Relinquished by: | | |
| Received by: [illegible] | 8/19/05 | 12:00 | Received by: | | |
| Relinquished by: | | | Relinquished by: | | |
| Received by: | | | Received by: | | |

**Matrix:** W - Water; DW - Drinking Water; SW - Surface Water; GW - Ground Water; WW - Waste Water; RW - Reagent Water; S - Soil; SE - Sediment; SV - Soil Vapor; AA - Ambient Air; WS - Waste (Solid); O - Other
**Container:** GB - Glass Bottle (Amber); V - 40 ml VOA Vial; BT, ST, PT - Brass, Steel, and Plastic Tube; P - Polythethylene; GJ - Glass Jar, SC - Summa Canister; TD - Tedlar
**Preservative:** C - Cold; HS - Sulfuric Acid; HC - Hydrochloric Acid; HN - Nitric Acid; Na - Sodium Hydroxide; O - Other

Project Name and Location: Former Georgia-Pacific Sawmill
Project Number: 16017.01
Receiving Lab: Curtis + Tompkins
Sampled by: Thomas Carroll (Print Name) Thomas Carroll (Signature)

Cooler Temp = 2°

ORIGINAL – Laboratory (Return with Report) YELLOW - Laboratory PINK - Originator

# Acton - Mickelson • Environmental, Inc.

Chain of Custody and Analysis Request Form

Page 1 of 1 | Chain of Custody # 4374

☒ Standard TAT ☐ RUSH TAT ☐ 24 hr. TAT ☐ 48 hr. TAT ☐ 72 hr. TAT ☒ 5 day TAT

Geotracker Global ID T0604591192

181361

**Send Results to:**
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762
(916) 939-7550, FAX (916) 939-7570
Attn.: Jeff Heglie

- ☐ Preliminary Fax Result
- ☒ Sample Receipt/ Log-In Confirmation
- ☒ Electronic Data Deliverables
- ☒ Geotracker EDF
- ☐ Raw Data Deliverables
- ☐ Call with Verbal Results

| Lab ID (LAB USE ONLY) | Field Point ID | Sample ID | Date Collected | Time Collected | Matrix | Container | Number of Containers | Preservative | Requested Analysis: 8015B TPHg | 8260B VOCs | | | | | | | | Temperature upon receipt | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | *1 | | | | | | | | | |
| -9 | | MW5.9-0818 05TB3 | 8/18/05 | 0800 | W | V | 6 | HCL | X | X | | | | | | | | | *1 VOC's Low Level |
| -3 | | MW4.3-081705 | 8/17/05 | 1435 | GW | V | 6 | HCL | X | X | | | | | | | | | |
| -4 | | MW4.4-081705 | 8/17/05 | 1525 | GW | V | 6 | HCL | X | X | | | | | | | | | |
| -5 | | MW5.8-081705 | 8/17/05 | 1335 | GW | V | 6 | HCL | X | X | | | | | | | | | |
| -6 | | MW5.9-081805 | 8/18/05 | 0810 | GW | V | 6 | HCL | X | X | | | | | | | | | |
| -2 | | MW4.2-081805 | 8/18/05 | 0850 | GW | V | 6 | HCL | X | X | | | | | | | | | |
| -1 | | MW4.1 081805 | 8/18/05 | 0940 | GW | V | 6 | HCL | X | X | | | | | | | | | |
| -7 | | MW7.1 081805 | 8/18/05 | 1020 | GW | V | 6 | HCL | X | X | | | | | | | | | |
| -8 | | MW10.4-081805 | 8/18/05 | 1118 | GW | V | 6 | HCL | X | X | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |

| Signature | Date | Time | Signature | Date | Time |
|---|---|---|---|---|---|
| Relinquished by: Thomas Carroll | 8/18/05 | 1430 | Relinquished by: | | |
| Received by: [illegible] | 8/19/05 | 1200 | Received by: | | |
| Relinquished by: | | | Relinquished by: | | |
| Received by: | | | Received by: | | |

**Matrix:** W - Water; DW - Drinking Water; SW - Surface Water; GW - Ground Water; WW - Waste Water; RW - Reagent Water; S - Soil; SE - Sediment; SV - Soil Vapor; AA - Ambient Air; WS - Waste (Solid); O - Other
**Container:** GB - Glass Bottle (Amber); V - 40 ml VOA Vial; BT, ST, PT - Brass, Steel, and Plastic Tube; P - Polythethylene; GJ - Glass Jar, SC - Summa Canister; TD - Tedlar
**Preservative:** C - Cold; HS - Sulfuric Acid; HC - Hydrochloric Acid; HN - Nitric Acid; Na - Sodium Hydroxide; O - Other

Project Name and Location: Former Georgia-Pacific Sawmill
Project Number: 160170.01 Receiving Lab: Curtis & Tompkins
Sampled by: Thomas Carroll (Print Name) Thomas Carroll (Signature)

Cooler Temp = 2°

ORIGINAL – Laboratory (Return with Report) YELLOW - Laboratory PINK - Originator

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

FILE COPY
16017.01/8

# ANALYTICAL REPORT

Prepared for:

Acton Mickelson Environmental
5175 Hillsdale Cir
El Dorado Hills, CA 95762

Date: 12-SEP-05
Lab Job Number: 181365
Project ID: 16017.01
Location: Former GA-Pacific Sawmill

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Reviewed by: _____
Project Manager

Reviewed by: _____
Operations Manager

RECEIVED
SEP 22 2005
By

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Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# CASE NARRATIVE

| | |
|---|---|
| Laboratory number: | **181365** |
| Client: | **Acton Mickelson Environmental** |
| Project: | **16017.01** |
| Location: | **Former GA-Pacific Sawmill** |
| Request Date: | **08/19/05** |
| Samples Received: | **08/19/05** |

This hardcopy data package contains sample and QC results for five water samples, requested for the above referenced project on 08/19/05. The samples were received cold and intact.

**TPH-Purgeables and/or BTXE by GC (EPA 8015B):**
No analytical problems were encountered.

**TPH-Extractables by GC (EPA 8015B):**
No analytical problems were encountered.

**Volatile Organics by GC/MS (EPA 8260B):**
Naphthalene, 1,2,4-trichlorobenzene, and chloroform were detected between the MDL and the RL in the method blank for batch 105118; these analytes were not detected in samples at or above the RL. No other analytical problems were encountered.

**Semivolatile Organics by GC/MS (EPA 8270C):**
No analytical problems were encountered.

**Polychlorinated Biphenyl Congeners (EPA 8082):**
Low surrogate recoveries were observed for TCMX in a number of samples. The associated surrogate was acceptable. No other analytical problems were encountered.

**Polynuclear Aromatics by HPLC (EPA 8310):**
No analytical problems were encountered.

**Metals (EPA 6020 and EPA 7470A):**
Metals reprocessed 23-Sept-05 for lowest possible reporting limits. No analytical problems were encountered.



#

50.1

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Total Volatile Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 181365 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8015B |
| Matrix: | Water | Batch#: | 105018 |
| Units: | ug/L | Received: | 08/19/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/21/05 |

Field ID: MW10.2081805TB4 Lab ID: 181365-001
Type: SAMPLE Sampled: 08/18/05

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | ND | 50 |

| Surrogate | %REC | Limits |
|---|---|---|
| Trifluorotoluene (FID) | 104 | 63-141 |
| Bromofluorobenzene (FID) | 120 | 79-139 |

Field ID: MW10.1-081805 Lab ID: 181365-002
Type: SAMPLE Sampled: 08/18/05

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | ND | 50 |

| Surrogate | %REC | Limits |
|---|---|---|
| Trifluorotoluene (FID) | 101 | 63-141 |
| Bromofluorobenzene (FID) | 118 | 79-139 |

Field ID: MW10.2-081805 Lab ID: 181365-003
Type: SAMPLE Sampled: 08/18/05

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | ND | 50 |

| Surrogate | %REC | Limits |
|---|---|---|
| Trifluorotoluene (FID) | 102 | 63-141 |
| Bromofluorobenzene (FID) | 118 | 79-139 |

ND= Not Detected
RL= Reporting Limit



2.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Total Volatile Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 181365 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8015B |
| Matrix: | Water | Batch#: | 105018 |
| Units: | ug/L | Received: | 08/19/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/21/05 |

Field ID: MWDUP3081805 Lab ID: 181365-004
Type: SAMPLE Sampled: 08/18/05

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | ND | 50 |

| Surrogate | %REC | Limits |
|---|---|---|
| Trifluorotoluene (FID) | 102 | 63-141 |
| Bromofluorobenzene (FID) | 116 | 79-139 |

Field ID: SP3.1081905 Lab ID: 181365-005
Type: SAMPLE Sampled: 08/19/05

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | ND | 50 |

| Surrogate | %REC | Limits |
|---|---|---|
| Trifluorotoluene (FID) | 101 | 63-141 |
| Bromofluorobenzene (FID) | 121 | 79-139 |

Type: BLANK Lab ID: QC305801

| Analyte | Result | RL |
|---|---|---|
| Gasoline C7-C12 | ND | 50 |

| Surrogate | %REC | Limits |
|---|---|---|
| Trifluorotoluene (FID) | 101 | 63-141 |
| Bromofluorobenzene (FID) | 116 | 79-139 |

ND= Not Detected
RL= Reporting Limit



2.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

## Total Volatile Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 181365 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8015B |
| Type: | LCS | Diln Fac: | 1.000 |
| Lab ID: | QC305802 | Batch#: | 105018 |
| Matrix: | Water | Analyzed: | 08/21/05 |
| Units: | ug/L | | |

| Analyte | Spiked | Result | %REC | Limits |
|---|---|---|---|---|
| Gasoline C7-C12 | 2,000 | 1,960 | 98 | 80-120 |

| Surrogate | %REC | Limits |
|---|---|---|
| Trifluorotoluene (FID) | 115 | 63-141 |
| Bromofluorobenzene (FID) | 129 | 79-139 |



3.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

## Total Volatile Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 181365 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8015B |
| Field ID: | MW10.2081805TB4 | Batch#: | 105018 |
| MSS Lab ID: | 181365-001 | Sampled: | 08/18/05 |
| Matrix: | Water | Received: | 08/19/05 |
| Units: | ug/L | Analyzed: | 08/21/05 |
| Diln Fac: | 1.000 | | |

Type: MS Lab ID: QC305803

| Analyte | MSS Result | Spiked | Result | %REC | Limits |
|---|---|---|---|---|---|
| Gasoline C7-C12 | 15.80 | 2,000 | 2,003 | 99 | 80-120 |

| Surrogate | %REC | Limits |
|---|---|---|
| Trifluorotoluene (FID) | 117 | 63-141 |
| Bromofluorobenzene (FID) | 130 | 79-139 |

Type: MSD Lab ID: QC305804

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|
| Gasoline C7-C12 | 2,000 | 1,985 | 98 | 80-120 | 1 | 20 |

| Surrogate | %REC | Limits |
|---|---|---|
| Trifluorotoluene (FID) | 120 | 63-141 |
| Bromofluorobenzene (FID) | 127 | 79-139 |

RPD= Relative Percent Difference



4.0

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Analytical Laboratories, Since 1878

# Total Extractable Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 181365 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8015B |
| Matrix: | Water | Received: | 08/19/05 |
| Units: | ug/L | Prepared: | 08/24/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/25/05 |
| Batch#: | 105125 | | |

Field ID: MW10.1-081805 Sampled: 08/18/05
Type: SAMPLE Cleanup Method: EPA 3630C
Lab ID: 181365-002

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Diesel C10-C24 | 24 J Y | 50 | 19 |
| Motor Oil C24-C36 | ND | 300 | 76 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 110 | 55-143 |

Field ID: MW10.2-081805 Sampled: 08/18/05
Type: SAMPLE Cleanup Method: EPA 3630C
Lab ID: 181365-003

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Diesel C10-C24 | 21 J Y | 50 | 19 |
| Motor Oil C24-C36 | ND | 300 | 76 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 104 | 55-143 |

Field ID: MWDUP3081805 Sampled: 08/18/05
Type: SAMPLE Cleanup Method: EPA 3630C
Lab ID: 181365-004

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Diesel C10-C24 | ND | 50 | 19 |
| Motor Oil C24-C36 | ND | 300 | 76 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 92 | 55-143 |

Field ID: SP3.1081905 Sampled: 08/19/05
Type: SAMPLE Cleanup Method: EPA 3630C
Lab ID: 181365-005

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Diesel C10-C24 | ND | 50 | 19 |
| Motor Oil C24-C36 | ND | 300 | 76 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 98 | 55-143 |

J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



21.0

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# Total Extractable Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 181365 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8015B |
| Matrix: | Water | Received: | 08/19/05 |
| Units: | ug/L | Prepared: | 08/24/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/25/05 |
| Batch#: | 105125 | | |

Type: BLANK
Lab ID: QC306255
Cleanup Method: EPA 3630C

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Diesel C10-C24 | ND | 50 | 19 |
| Motor Oil C24-C36 | ND | 300 | 76 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 103 | 55-143 |

J= Estimated value
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



21.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

## Total Extractable Hydrocarbons

| | | | |
|---|---|---|---|
| Lab #: | 181365 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8015B |
| Matrix: | Water | Batch#: | 105125 |
| Units: | ug/L | Prepared: | 08/24/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/25/05 |

Type: BS
Lab ID: QC306256
Cleanup Method: EPA 3630C

| Analyte | Spiked | Result | %REC | Limits |
|---|---|---|---|---|
| Diesel C10-C24 | 2,500 | 2,448 | 98 | 50-133 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 100 | 55-143 |

Type: BSD
Lab ID: QC306257
Cleanup Method: EPA 3630C

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|
| Diesel C10-C24 | 2,500 | 2,573 | 103 | 50-133 | 5 | 40 |

| Surrogate | %REC | Limits |
|---|---|---|
| Hexacosane | 107 | 55-143 |

RPD= Relative Percent Difference



22.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181365 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Field ID: | MW10.2081805TB4 | Batch#: | 105118 |
| Lab ID: | 181365-001 | Sampled: | 08/18/05 |
| Matrix: | Water | Received: | 08/19/05 |
| Units: | ug/L | Analyzed: | 08/24/05 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Freon 12 | ND | 1.0 | 0.2 |
| Chloromethane | ND | 1.0 | 0.09 |
| Vinyl Chloride | ND | 0.5 | 0.2 |
| Bromomethane | ND | 1.0 | 0.2 |
| Chloroethane | ND | 1.0 | 0.1 |
| Ethanol | ND | 1,000 | 36 |
| Trichlorofluoromethane | ND | 1.0 | 0.1 |
| Isopropanol | 160 | 100 | 1.1 |
| Acetone | 11 | 10 | 0.5 |
| Freon 113 | ND | 5.0 | 0.09 |
| 1,1-Dichloroethene | ND | 0.5 | 0.09 |
| Methylene Chloride | ND | 10 | 0.2 |
| Carbon Disulfide | ND | 0.5 | 0.04 |
| MTBE | ND | 0.5 | 0.05 |
| trans-1,2-Dichloroethene | ND | 0.5 | 0.09 |
| Vinyl Acetate | ND | 10 | 0.1 |
| 1,1-Dichloroethane | ND | 0.5 | 0.06 |
| 2-Butanone | 1.3 J | 10 | 0.3 |
| cis-1,2-Dichloroethene | ND | 0.5 | 0.1 |
| 2,2-Dichloropropane | ND | 0.5 | 0.08 |
| Chloroform | 0.3 J | 0.5 | 0.04 |
| Bromochloromethane | ND | 0.5 | 0.2 |
| 1,1,1-Trichloroethane | ND | 0.5 | 0.04 |
| 1,1-Dichloropropene | ND | 0.5 | 0.05 |
| Carbon Tetrachloride | ND | 0.5 | 0.06 |
| 1,2-Dichloroethane | ND | 0.5 | 0.06 |
| Benzene | ND | 0.5 | 0.03 |
| Trichloroethene | ND | 0.5 | 0.09 |
| 1,2-Dichloropropane | ND | 0.5 | 0.1 |
| Bromodichloromethane | ND | 0.5 | 0.07 |
| Dibromomethane | ND | 0.5 | 0.1 |
| 4-Methyl-2-Pentanone | 1.5 J | 10 | 0.3 |
| cis-1,3-Dichloropropene | ND | 0.5 | 0.04 |
| Toluene | ND | 0.5 | 0.05 |
| trans-1,3-Dichloropropene | ND | 0.5 | 0.06 |
| 1,1,2-Trichloroethane | ND | 0.5 | 0.06 |
| 2-Hexanone | ND | 10 | 0.1 |
| 1,3-Dichloropropane | ND | 0.5 | 0.07 |
| Tetrachloroethene | ND | 0.5 | 0.09 |
| Dibromochloromethane | ND | 0.5 | 0.06 |
| 1,2-Dibromoethane | ND | 0.5 | 0.07 |
| Chlorobenzene | ND | 0.5 | 0.05 |
| 1,1,1,2-Tetrachloroethane | ND | 0.5 | 0.09 |
| Ethylbenzene | ND | 0.5 | 0.1 |
| m,p-Xylenes | ND | 0.5 | 0.2 |
| o-Xylene | ND | 0.5 | 0.1 |
| Styrene | ND | 0.5 | 0.06 |
| Bromoform | ND | 1.0 | 0.1 |
| Isopropylbenzene | ND | 0.5 | 0.1 |
| 1,1,2,2-Tetrachloroethane | ND | 0.5 | 0.06 |
| 1,2,3-Trichloropropane | ND | 0.5 | 0.2 |
| Propylbenzene | ND | 0.5 | 0.1 |
| Bromobenzene | ND | 0.5 | 0.09 |

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



33.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181365 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Field ID: | MW10.2081805TB4 | Batch#: | 105118 |
| Lab ID: | 181365-001 | Sampled: | 08/18/05 |
| Matrix: | Water | Received: | 08/19/05 |
| Units: | ug/L | Analyzed: | 08/24/05 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| 1,3,5-Trimethylbenzene | ND | 0.5 | 0.1 |
| 2-Chlorotoluene | ND | 0.5 | 0.1 |
| 4-Chlorotoluene | ND | 0.5 | 0.07 |
| tert-Butylbenzene | ND | 0.5 | 0.08 |
| 1,2,4-Trimethylbenzene | ND | 0.5 | 0.1 |
| sec-Butylbenzene | ND | 0.5 | 0.08 |
| para-Isopropyl Toluene | ND | 0.5 | 0.04 |
| 1,3-Dichlorobenzene | ND | 0.5 | 0.1 |
| 1,4-Dichlorobenzene | ND | 0.5 | 0.2 |
| n-Butylbenzene | ND | 0.5 | 0.1 |
| 1,2-Dichlorobenzene | ND | 0.5 | 0.06 |
| 1,2-Dibromo-3-Chloropropane | ND | 2.0 | 0.1 |
| 1,2,4-Trichlorobenzene | ND | 0.5 | 0.2 |
| Hexachlorobutadiene | ND | 0.5 | 0.2 |
| Naphthalene | ND | 2.0 | 0.2 |
| 1,2,3-Trichlorobenzene | ND | 0.5 | 0.3 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 104 | 80-120 |
| 1,2-Dichloroethane-d4 | 113 | 80-122 |
| Toluene-d8 | 103 | 80-120 |
| Bromofluorobenzene | 102 | 80-124 |

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



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Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181365 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Field ID: | MW10.1-081805 | Batch#: | 105118 |
| Lab ID: | 181365-002 | Sampled: | 08/18/05 |
| Matrix: | Water | Received: | 08/19/05 |
| Units: | ug/L | Analyzed: | 08/24/05 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Freon 12 | ND | 1.0 | 0.2 |
| Chloromethane | ND | 1.0 | 0.09 |
| Vinyl Chloride | ND | 0.5 | 0.2 |
| Bromomethane | ND | 1.0 | 0.2 |
| Chloroethane | ND | 1.0 | 0.1 |
| Ethanol | ND | 1,000 | 36 |
| Trichlorofluoromethane | ND | 1.0 | 0.1 |
| Isopropanol | ND | 100 | 1.1 |
| Acetone | ND | 10 | 0.5 |
| Freon 113 | ND | 5.0 | 0.09 |
| 1,1-Dichloroethene | ND | 0.5 | 0.09 |
| Methylene Chloride | ND | 10 | 0.2 |
| Carbon Disulfide | ND | 0.5 | 0.04 |
| MTBE | ND | 0.5 | 0.05 |
| trans-1,2-Dichloroethene | ND | 0.5 | 0.09 |
| Vinyl Acetate | ND | 10 | 0.1 |
| 1,1-Dichloroethane | ND | 0.5 | 0.06 |
| 2-Butanone | ND | 10 | 0.3 |
| cis-1,2-Dichloroethene | ND | 0.5 | 0.1 |
| 2,2-Dichloropropane | ND | 0.5 | 0.08 |
| Chloroform | ND | 0.5 | 0.04 |
| Bromochloromethane | ND | 0.5 | 0.2 |
| 1,1,1-Trichloroethane | ND | 0.5 | 0.04 |
| 1,1-Dichloropropene | ND | 0.5 | 0.05 |
| Carbon Tetrachloride | ND | 0.5 | 0.06 |
| 1,2-Dichloroethane | ND | 0.5 | 0.06 |
| Benzene | ND | 0.5 | 0.03 |
| Trichloroethene | ND | 0.5 | 0.09 |
| 1,2-Dichloropropane | ND | 0.5 | 0.1 |
| Bromodichloromethane | ND | 0.5 | 0.07 |
| Dibromomethane | ND | 0.5 | 0.1 |
| 4-Methyl-2-Pentanone | ND | 10 | 0.3 |
| cis-1,3-Dichloropropene | ND | 0.5 | 0.04 |
| Toluene | ND | 0.5 | 0.05 |
| trans-1,3-Dichloropropene | ND | 0.5 | 0.06 |
| 1,1,2-Trichloroethane | ND | 0.5 | 0.06 |
| 2-Hexanone | ND | 10 | 0.1 |
| 1,3-Dichloropropane | ND | 0.5 | 0.07 |
| Tetrachloroethene | ND | 0.5 | 0.09 |
| Dibromochloromethane | ND | 0.5 | 0.06 |
| 1,2-Dibromoethane | ND | 0.5 | 0.07 |
| Chlorobenzene | ND | 0.5 | 0.05 |
| 1,1,1,2-Tetrachloroethane | ND | 0.5 | 0.09 |
| Ethylbenzene | ND | 0.5 | 0.1 |
| m,p-Xylenes | ND | 0.5 | 0.2 |
| o-Xylene | ND | 0.5 | 0.1 |
| Styrene | ND | 0.5 | 0.06 |
| Bromoform | ND | 1.0 | 0.1 |
| Isopropylbenzene | ND | 0.5 | 0.1 |
| 1,1,2,2-Tetrachloroethane | ND | 0.5 | 0.06 |
| 1,2,3-Trichloropropane | ND | 0.5 | 0.2 |
| Propylbenzene | ND | 0.5 | 0.1 |
| Bromobenzene | ND | 0.5 | 0.09 |
| 1,3,5-Trimethylbenzene | ND | 0.5 | 0.1 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



34.0

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Analytical Laboratories, Since 1878

# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181365 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Field ID: | MW10.1-081805 | Batch#: | 105118 |
| Lab ID: | 181365-002 | Sampled: | 08/18/05 |
| Matrix: | Water | Received: | 08/19/05 |
| Units: | ug/L | Analyzed: | 08/24/05 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| 2-Chlorotoluene | ND | 0.5 | 0.1 |
| 4-Chlorotoluene | ND | 0.5 | 0.07 |
| tert-Butylbenzene | ND | 0.5 | 0.08 |
| 1,2,4-Trimethylbenzene | ND | 0.5 | 0.1 |
| sec-Butylbenzene | ND | 0.5 | 0.08 |
| para-Isopropyl Toluene | ND | 0.5 | 0.04 |
| 1,3-Dichlorobenzene | ND | 0.5 | 0.1 |
| 1,4-Dichlorobenzene | ND | 0.5 | 0.2 |
| n-Butylbenzene | ND | 0.5 | 0.1 |
| 1,2-Dichlorobenzene | ND | 0.5 | 0.06 |
| 1,2-Dibromo-3-Chloropropane | ND | 2.0 | 0.1 |
| 1,2,4-Trichlorobenzene | ND | 0.5 | 0.2 |
| Hexachlorobutadiene | ND | 0.5 | 0.2 |
| Naphthalene | ND | 2.0 | 0.2 |
| 1,2,3-Trichlorobenzene | ND | 0.5 | 0.3 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 107 | 80-120 |
| 1,2-Dichloroethane-d4 | 115 | 80-122 |
| Toluene-d8 | 103 | 80-120 |
| Bromofluorobenzene | 103 | 80-124 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



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Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181365 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Field ID: | MW10.2-081805 | Batch#: | 105118 |
| Lab ID: | 181365-003 | Sampled: | 08/18/05 |
| Matrix: | Water | Received: | 08/19/05 |
| Units: | ug/L | Analyzed: | 08/24/05 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Freon 12 | ND | 1.0 | 0.2 |
| Chloromethane | ND | 1.0 | 0.09 |
| Vinyl Chloride | ND | 0.5 | 0.2 |
| Bromomethane | ND | 1.0 | 0.2 |
| Chloroethane | ND | 1.0 | 0.1 |
| Ethanol | ND | 1,000 | 36 |
| Trichlorofluoromethane | ND | 1.0 | 0.1 |
| Isopropanol | ND | 100 | 1.1 |
| Acetone | ND | 10 | 0.5 |
| Freon 113 | ND | 5.0 | 0.09 |
| 1,1-Dichloroethene | ND | 0.5 | 0.09 |
| Methylene Chloride | ND | 10 | 0.2 |
| Carbon Disulfide | ND | 0.5 | 0.04 |
| MTBE | ND | 0.5 | 0.05 |
| trans-1,2-Dichloroethene | ND | 0.5 | 0.09 |
| Vinyl Acetate | ND | 10 | 0.1 |
| 1,1-Dichloroethane | ND | 0.5 | 0.06 |
| 2-Butanone | ND | 10 | 0.3 |
| cis-1,2-Dichloroethene | ND | 0.5 | 0.1 |
| 2,2-Dichloropropane | ND | 0.5 | 0.08 |
| Chloroform | ND | 0.5 | 0.04 |
| Bromochloromethane | ND | 0.5 | 0.2 |
| 1,1,1-Trichloroethane | ND | 0.5 | 0.04 |
| 1,1-Dichloropropene | ND | 0.5 | 0.05 |
| Carbon Tetrachloride | ND | 0.5 | 0.06 |
| 1,2-Dichloroethane | ND | 0.5 | 0.06 |
| Benzene | ND | 0.5 | 0.03 |
| Trichloroethene | ND | 0.5 | 0.09 |
| 1,2-Dichloropropane | ND | 0.5 | 0.1 |
| Bromodichloromethane | ND | 0.5 | 0.07 |
| Dibromomethane | ND | 0.5 | 0.1 |
| 4-Methyl-2-Pentanone | ND | 10 | 0.3 |
| cis-1,3-Dichloropropene | ND | 0.5 | 0.04 |
| Toluene | ND | 0.5 | 0.05 |
| trans-1,3-Dichloropropene | ND | 0.5 | 0.06 |
| 1,1,2-Trichloroethane | ND | 0.5 | 0.06 |
| 2-Hexanone | ND | 10 | 0.1 |
| 1,3-Dichloropropane | ND | 0.5 | 0.07 |
| Tetrachloroethene | ND | 0.5 | 0.09 |
| Dibromochloromethane | ND | 0.5 | 0.06 |
| 1,2-Dibromoethane | ND | 0.5 | 0.07 |
| Chlorobenzene | ND | 0.5 | 0.05 |
| 1,1,1,2-Tetrachloroethane | ND | 0.5 | 0.09 |
| Ethylbenzene | ND | 0.5 | 0.1 |
| m,p-Xylenes | ND | 0.5 | 0.2 |
| o-Xylene | ND | 0.5 | 0.1 |
| Styrene | ND | 0.5 | 0.06 |
| Bromoform | ND | 1.0 | 0.1 |
| Isopropylbenzene | ND | 0.5 | 0.1 |
| 1,1,2,2-Tetrachloroethane | ND | 0.5 | 0.06 |
| 1,2,3-Trichloropropane | ND | 0.5 | 0.2 |
| Propylbenzene | ND | 0.5 | 0.1 |
| Bromobenzene | ND | 0.5 | 0.09 |
| 1,3,5-Trimethylbenzene | ND | 0.5 | 0.1 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



35.0

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# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181365 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Field ID: | MW10.2-081805 | Batch#: | 105118 |
| Lab ID: | 181365-003 | Sampled: | 08/18/05 |
| Matrix: | Water | Received: | 08/19/05 |
| Units: | ug/L | Analyzed: | 08/24/05 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| 2-Chlorotoluene | ND | 0.5 | 0.1 |
| 4-Chlorotoluene | ND | 0.5 | 0.07 |
| tert-Butylbenzene | ND | 0.5 | 0.08 |
| 1,2,4-Trimethylbenzene | ND | 0.5 | 0.1 |
| sec-Butylbenzene | ND | 0.5 | 0.08 |
| para-Isopropyl Toluene | ND | 0.5 | 0.04 |
| 1,3-Dichlorobenzene | ND | 0.5 | 0.1 |
| 1,4-Dichlorobenzene | ND | 0.5 | 0.2 |
| n-Butylbenzene | ND | 0.5 | 0.1 |
| 1,2-Dichlorobenzene | ND | 0.5 | 0.06 |
| 1,2-Dibromo-3-Chloropropane | ND | 2.0 | 0.1 |
| 1,2,4-Trichlorobenzene | ND | 0.5 | 0.2 |
| Hexachlorobutadiene | ND | 0.5 | 0.2 |
| Naphthalene | ND | 2.0 | 0.2 |
| 1,2,3-Trichlorobenzene | ND | 0.5 | 0.3 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 105 | 80-120 |
| 1,2-Dichloroethane-d4 | 115 | 80-122 |
| Toluene-d8 | 103 | 80-120 |
| Bromofluorobenzene | 103 | 80-124 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



35.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181365 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Field ID: | MWDUP3081805 | Batch#: | 105118 |
| Lab ID: | 181365-004 | Sampled: | 08/18/05 |
| Matrix: | Water | Received: | 08/19/05 |
| Units: | ug/L | Analyzed: | 08/24/05 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Freon 12 | ND | 1.0 | 0.2 |
| Chloromethane | ND | 1.0 | 0.09 |
| Vinyl Chloride | ND | 0.5 | 0.2 |
| Bromomethane | ND | 1.0 | 0.2 |
| Chloroethane | ND | 1.0 | 0.1 |
| Ethanol | ND | 1,000 | 36 |
| Trichlorofluoromethane | ND | 1.0 | 0.1 |
| Isopropanol | ND | 100 | 1.1 |
| Acetone | ND | 10 | 0.5 |
| Freon 113 | ND | 5.0 | 0.09 |
| 1,1-Dichloroethene | ND | 0.5 | 0.09 |
| Methylene Chloride | ND | 10 | 0.2 |
| Carbon Disulfide | ND | 0.5 | 0.04 |
| MTBE | ND | 0.5 | 0.05 |
| trans-1,2-Dichloroethene | ND | 0.5 | 0.09 |
| Vinyl Acetate | ND | 10 | 0.1 |
| 1,1-Dichloroethane | ND | 0.5 | 0.06 |
| 2-Butanone | ND | 10 | 0.3 |
| cis-1,2-Dichloroethene | ND | 0.5 | 0.1 |
| 2,2-Dichloropropane | ND | 0.5 | 0.08 |
| Chloroform | ND | 0.5 | 0.04 |
| Bromochloromethane | ND | 0.5 | 0.2 |
| 1,1,1-Trichloroethane | ND | 0.5 | 0.04 |
| 1,1-Dichloropropene | ND | 0.5 | 0.05 |
| Carbon Tetrachloride | ND | 0.5 | 0.06 |
| 1,2-Dichloroethane | ND | 0.5 | 0.06 |
| Benzene | ND | 0.5 | 0.03 |
| Trichloroethene | ND | 0.5 | 0.09 |
| 1,2-Dichloropropane | ND | 0.5 | 0.1 |
| Bromodichloromethane | ND | 0.5 | 0.07 |
| Dibromomethane | ND | 0.5 | 0.1 |
| 4-Methyl-2-Pentanone | ND | 10 | 0.3 |
| cis-1,3-Dichloropropene | ND | 0.5 | 0.04 |
| Toluene | ND | 0.5 | 0.05 |
| trans-1,3-Dichloropropene | ND | 0.5 | 0.06 |
| 1,1,2-Trichloroethane | ND | 0.5 | 0.06 |
| 2-Hexanone | ND | 10 | 0.1 |
| 1,3-Dichloropropane | ND | 0.5 | 0.07 |
| Tetrachloroethene | ND | 0.5 | 0.09 |
| Dibromochloromethane | ND | 0.5 | 0.06 |
| 1,2-Dibromoethane | ND | 0.5 | 0.07 |
| Chlorobenzene | ND | 0.5 | 0.05 |
| 1,1,1,2-Tetrachloroethane | ND | 0.5 | 0.09 |
| Ethylbenzene | ND | 0.5 | 0.1 |
| m,p-Xylenes | ND | 0.5 | 0.2 |
| o-Xylene | ND | 0.5 | 0.1 |
| Styrene | ND | 0.5 | 0.06 |
| Bromoform | ND | 1.0 | 0.1 |
| Isopropylbenzene | ND | 0.5 | 0.1 |
| 1,1,2,2-Tetrachloroethane | ND | 0.5 | 0.06 |
| 1,2,3-Trichloropropane | ND | 0.5 | 0.2 |
| Propylbenzene | ND | 0.5 | 0.1 |
| Bromobenzene | ND | 0.5 | 0.09 |
| 1,3,5-Trimethylbenzene | ND | 0.5 | 0.1 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



36.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181365 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Field ID: | MWDUP3081805 | Batch#: | 105118 |
| Lab ID: | 181365-004 | Sampled: | 08/18/05 |
| Matrix: | Water | Received: | 08/19/05 |
| Units: | ug/L | Analyzed: | 08/24/05 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| 2-Chlorotoluene | ND | 0.5 | 0.1 |
| 4-Chlorotoluene | ND | 0.5 | 0.07 |
| tert-Butylbenzene | ND | 0.5 | 0.08 |
| 1,2,4-Trimethylbenzene | ND | 0.5 | 0.1 |
| sec-Butylbenzene | ND | 0.5 | 0.08 |
| para-Isopropyl Toluene | ND | 0.5 | 0.04 |
| 1,3-Dichlorobenzene | ND | 0.5 | 0.1 |
| 1,4-Dichlorobenzene | ND | 0.5 | 0.2 |
| n-Butylbenzene | ND | 0.5 | 0.1 |
| 1,2-Dichlorobenzene | ND | 0.5 | 0.06 |
| 1,2-Dibromo-3-Chloropropane | ND | 2.0 | 0.1 |
| 1,2,4-Trichlorobenzene | ND | 0.5 | 0.2 |
| Hexachlorobutadiene | ND | 0.5 | 0.2 |
| Naphthalene | ND | 2.0 | 0.2 |
| 1,2,3-Trichlorobenzene | ND | 0.5 | 0.3 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 105 | 80-120 |
| 1,2-Dichloroethane-d4 | 116 | 80-122 |
| Toluene-d8 | 105 | 80-120 |
| Bromofluorobenzene | 105 | 80-124 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



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Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181365 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Field ID: | SP3.1081905 | Batch#: | 105118 |
| Lab ID: | 181365-005 | Sampled: | 08/19/05 |
| Matrix: | Water | Received: | 08/19/05 |
| Units: | ug/L | Analyzed: | 08/24/05 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Freon 12 | ND | 1.0 | 0.2 |
| Chloromethane | ND | 1.0 | 0.09 |
| Vinyl Chloride | ND | 0.5 | 0.2 |
| Bromomethane | ND | 1.0 | 0.2 |
| Chloroethane | ND | 1.0 | 0.1 |
| Ethanol | ND | 1,000 | 36 |
| Trichlorofluoromethane | ND | 1.0 | 0.1 |
| Isopropanol | ND | 100 | 1.1 |
| Acetone | ND | 10 | 0.5 |
| Freon 113 | ND | 5.0 | 0.09 |
| 1,1-Dichloroethene | ND | 0.5 | 0.09 |
| Methylene Chloride | ND | 10 | 0.2 |
| Carbon Disulfide | ND | 0.5 | 0.04 |
| MTBE | ND | 0.5 | 0.05 |
| trans-1,2-Dichloroethene | ND | 0.5 | 0.09 |
| Vinyl Acetate | ND | 10 | 0.1 |
| 1,1-Dichloroethane | 0.3 J | 0.5 | 0.06 |
| 2-Butanone | ND | 10 | 0.3 |
| cis-1,2-Dichloroethene | 1.1 | 0.5 | 0.1 |
| 2,2-Dichloropropane | ND | 0.5 | 0.08 |
| Chloroform | ND | 0.5 | 0.04 |
| Bromochloromethane | ND | 0.5 | 0.2 |
| 1,1,1-Trichloroethane | 0.1 J | 0.5 | 0.04 |
| 1,1-Dichloropropene | ND | 0.5 | 0.05 |
| Carbon Tetrachloride | ND | 0.5 | 0.06 |
| 1,2-Dichloroethane | ND | 0.5 | 0.06 |
| Benzene | ND | 0.5 | 0.03 |
| Trichloroethene | 1.6 | 0.5 | 0.09 |
| 1,2-Dichloropropane | ND | 0.5 | 0.1 |
| Bromodichloromethane | ND | 0.5 | 0.07 |
| Dibromomethane | ND | 0.5 | 0.1 |
| 4-Methyl-2-Pentanone | ND | 10 | 0.3 |
| cis-1,3-Dichloropropene | ND | 0.5 | 0.04 |
| Toluene | ND | 0.5 | 0.05 |
| trans-1,3-Dichloropropene | ND | 0.5 | 0.06 |
| 1,1,2-Trichloroethane | ND | 0.5 | 0.06 |
| 2-Hexanone | ND | 10 | 0.1 |
| 1,3-Dichloropropane | ND | 0.5 | 0.07 |
| Tetrachloroethene | 4.2 | 0.5 | 0.09 |
| Dibromochloromethane | ND | 0.5 | 0.06 |
| 1,2-Dibromoethane | ND | 0.5 | 0.07 |
| Chlorobenzene | ND | 0.5 | 0.05 |
| 1,1,1,2-Tetrachloroethane | ND | 0.5 | 0.09 |
| Ethylbenzene | ND | 0.5 | 0.1 |
| m,p-Xylenes | ND | 0.5 | 0.2 |
| o-Xylene | ND | 0.5 | 0.1 |
| Styrene | ND | 0.5 | 0.06 |
| Bromoform | ND | 1.0 | 0.1 |
| Isopropylbenzene | ND | 0.5 | 0.1 |
| 1,1,2,2-Tetrachloroethane | ND | 0.5 | 0.06 |
| 1,2,3-Trichloropropane | ND | 0.5 | 0.2 |
| Propylbenzene | ND | 0.5 | 0.1 |
| Bromobenzene | ND | 0.5 | 0.09 |

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



37.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181365 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Field ID: | SP3.1081905 | Batch#: | 105118 |
| Lab ID: | 181365-005 | Sampled: | 08/19/05 |
| Matrix: | Water | Received: | 08/19/05 |
| Units: | ug/L | Analyzed: | 08/24/05 |
| Diln Fac: | 1.000 | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| 1,3,5-Trimethylbenzene | ND | 0.5 | 0.1 |
| 2-Chlorotoluene | ND | 0.5 | 0.1 |
| 4-Chlorotoluene | ND | 0.5 | 0.07 |
| tert-Butylbenzene | ND | 0.5 | 0.08 |
| 1,2,4-Trimethylbenzene | ND | 0.5 | 0.1 |
| sec-Butylbenzene | ND | 0.5 | 0.08 |
| para-Isopropyl Toluene | ND | 0.5 | 0.04 |
| 1,3-Dichlorobenzene | ND | 0.5 | 0.1 |
| 1,4-Dichlorobenzene | ND | 0.5 | 0.2 |
| n-Butylbenzene | ND | 0.5 | 0.1 |
| 1,2-Dichlorobenzene | ND | 0.5 | 0.06 |
| 1,2-Dibromo-3-Chloropropane | ND | 2.0 | 0.1 |
| 1,2,4-Trichlorobenzene | ND | 0.5 | 0.2 |
| Hexachlorobutadiene | ND | 0.5 | 0.2 |
| Naphthalene | ND | 2.0 | 0.2 |
| 1,2,3-Trichlorobenzene | ND | 0.5 | 0.3 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 105 | 80-120 |
| 1,2-Dichloroethane-d4 | 116 | 80-122 |
| Toluene-d8 | 105 | 80-120 |
| Bromofluorobenzene | 103 | 80-124 |

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



37.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

## Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181365 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Matrix: | Water | Batch#: | 105118 |
| Units: | ug/L | Analyzed: | 08/24/05 |
| Diln Fac: | 1.000 | | |

Type: BS Lab ID: QC306222

| Analyte | Spiked | Result | %REC | Limits |
|---|---|---|---|---|
| 1,1-Dichloroethene | 25.00 | 22.84 | 91 | 75-121 |
| Benzene | 25.00 | 23.55 | 94 | 80-120 |
| Trichloroethene | 25.00 | 25.83 | 103 | 78-120 |
| Toluene | 25.00 | 25.27 | 101 | 80-120 |
| Chlorobenzene | 25.00 | 25.34 | 101 | 80-120 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 102 | 80-120 |
| 1,2-Dichloroethane-d4 | 110 | 80-122 |
| Toluene-d8 | 104 | 80-120 |
| Bromofluorobenzene | 99 | 80-124 |

Type: BSD Lab ID: QC306223

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 25.00 | 24.15 | 97 | 75-121 | 6 | 20 |
| Benzene | 25.00 | 24.45 | 98 | 80-120 | 4 | 20 |
| Trichloroethene | 25.00 | 26.80 | 107 | 78-120 | 4 | 20 |
| Toluene | 25.00 | 25.67 | 103 | 80-120 | 2 | 20 |
| Chlorobenzene | 25.00 | 25.74 | 103 | 80-120 | 2 | 20 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 104 | 80-120 |
| 1,2-Dichloroethane-d4 | 110 | 80-122 |
| Toluene-d8 | 102 | 80-120 |
| Bromofluorobenzene | 99 | 80-124 |

RPD= Relative Percent Difference



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Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

## Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181365 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Type: | BLANK | Diln Fac: | 1.000 |
| Lab ID: | QC306224 | Batch#: | 105118 |
| Matrix: | Water | Analyzed: | 08/24/05 |
| Units: | ug/L | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Freon 12 | ND | 1.0 | 0.2 |
| Chloromethane | ND | 1.0 | 0.09 |
| Vinyl Chloride | ND | 0.5 | 0.2 |
| Bromomethane | ND | 1.0 | 0.2 |
| Chloroethane | ND | 1.0 | 0.1 |
| Ethanol | ND | 1,000 | 36 |
| Trichlorofluoromethane | ND | 1.0 | 0.1 |
| Isopropanol | ND | 100 | 1.1 |
| Acetone | ND | 10 | 0.5 |
| Freon 113 | ND | 5.0 | 0.09 |
| 1,1-Dichloroethene | ND | 0.5 | 0.09 |
| Methylene Chloride | ND | 10 | 0.2 |
| Carbon Disulfide | ND | 0.5 | 0.04 |
| MTBE | ND | 0.5 | 0.05 |
| trans-1,2-Dichloroethene | ND | 0.5 | 0.09 |
| Vinyl Acetate | ND | 10 | 0.1 |
| 1,1-Dichloroethane | ND | 0.5 | 0.06 |
| 2-Butanone | ND | 10 | 0.3 |
| cis-1,2-Dichloroethene | ND | 0.5 | 0.1 |
| 2,2-Dichloropropane | ND | 0.5 | 0.08 |
| Chloroform | 0.1 J | 0.5 | 0.04 |
| Bromochloromethane | ND | 0.5 | 0.2 |
| 1,1,1-Trichloroethane | ND | 0.5 | 0.04 |
| 1,1-Dichloropropene | ND | 0.5 | 0.05 |
| Carbon Tetrachloride | ND | 0.5 | 0.06 |
| 1,2-Dichloroethane | ND | 0.5 | 0.06 |
| Benzene | ND | 0.5 | 0.03 |
| Trichloroethene | ND | 0.5 | 0.09 |
| 1,2-Dichloropropane | ND | 0.5 | 0.1 |
| Bromodichloromethane | ND | 0.5 | 0.07 |
| Dibromomethane | ND | 0.5 | 0.1 |
| 4-Methyl-2-Pentanone | ND | 10 | 0.3 |
| cis-1,3-Dichloropropene | ND | 0.5 | 0.04 |
| Toluene | ND | 0.5 | 0.05 |
| trans-1,3-Dichloropropene | ND | 0.5 | 0.06 |
| 1,1,2-Trichloroethane | ND | 0.5 | 0.06 |
| 2-Hexanone | ND | 10 | 0.1 |
| 1,3-Dichloropropane | ND | 0.5 | 0.07 |
| Tetrachloroethene | ND | 0.5 | 0.09 |
| Dibromochloromethane | ND | 0.5 | 0.06 |
| 1,2-Dibromoethane | ND | 0.5 | 0.07 |
| Chlorobenzene | ND | 0.5 | 0.05 |
| 1,1,1,2-Tetrachloroethane | ND | 0.5 | 0.09 |
| Ethylbenzene | ND | 0.5 | 0.1 |
| m,p-Xylenes | ND | 0.5 | 0.2 |
| o-Xylene | ND | 0.5 | 0.1 |
| Styrene | ND | 0.5 | 0.06 |
| Bromoform | ND | 1.0 | 0.1 |
| Isopropylbenzene | ND | 0.5 | 0.1 |
| 1,1,2,2-Tetrachloroethane | ND | 0.5 | 0.06 |
| 1,2,3-Trichloropropane | ND | 0.5 | 0.2 |
| Propylbenzene | ND | 0.5 | 0.1 |
| Bromobenzene | ND | 0.5 | 0.09 |

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



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Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

## Purgeable Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181365 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 5030B |
| Project#: | 16017.01 | Analysis: | EPA 8260B |
| Type: | BLANK | Diln Fac: | 1.000 |
| Lab ID: | QC306224 | Batch#: | 105118 |
| Matrix: | Water | Analyzed: | 08/24/05 |
| Units: | ug/L | | |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| 1,3,5-Trimethylbenzene | ND | 0.5 | 0.1 |
| 2-Chlorotoluene | ND | 0.5 | 0.1 |
| 4-Chlorotoluene | ND | 0.5 | 0.07 |
| tert-Butylbenzene | ND | 0.5 | 0.08 |
| 1,2,4-Trimethylbenzene | ND | 0.5 | 0.1 |
| sec-Butylbenzene | ND | 0.5 | 0.08 |
| para-Isopropyl Toluene | ND | 0.5 | 0.04 |
| 1,3-Dichlorobenzene | ND | 0.5 | 0.1 |
| 1,4-Dichlorobenzene | ND | 0.5 | 0.2 |
| n-Butylbenzene | ND | 0.5 | 0.1 |
| 1,2-Dichlorobenzene | ND | 0.5 | 0.06 |
| 1,2-Dibromo-3-Chloropropane | ND | 2.0 | 0.1 |
| 1,2,4-Trichlorobenzene | 0.3 J | 0.5 | 0.2 |
| Hexachlorobutadiene | ND | 0.5 | 0.2 |
| Naphthalene | 0.3 J | 2.0 | 0.2 |
| 1,2,3-Trichlorobenzene | ND | 0.5 | 0.3 |

| Surrogate | %REC | Limits |
|---|---|---|
| Dibromofluoromethane | 101 | 80-120 |
| 1,2-Dichloroethane-d4 | 110 | 80-122 |
| Toluene-d8 | 102 | 80-120 |
| Bromofluorobenzene | 105 | 80-124 |

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



38.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181365 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8270C |
| Field ID: | MW10.1-081805 | Batch#: | 105054 |
| Lab ID: | 181365-002 | Sampled: | 08/18/05 |
| Matrix: | Water | Received: | 08/19/05 |
| Units: | ug/L | Prepared: | 08/22/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/24/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| N-Nitrosodimethylamine | ND | 9.8 | 1.5 |
| Phenol | ND | 9.8 | 1.1 |
| bis(2-Chloroethyl)ether | ND | 9.8 | 0.64 |
| 2-Chlorophenol | ND | 9.8 | 0.43 |
| 1,3-Dichlorobenzene | ND | 9.8 | 0.32 |
| 1,4-Dichlorobenzene | ND | 9.8 | 0.48 |
| Benzyl alcohol | ND | 9.8 | 0.58 |
| 1,2-Dichlorobenzene | ND | 9.8 | 0.44 |
| 2-Methylphenol | ND | 9.8 | 1.1 |
| bis(2-Chloroisopropyl) ether | ND | 9.8 | 0.82 |
| 4-Methylphenol | ND | 9.8 | 0.42 |
| N-Nitroso-di-n-propylamine | ND | 9.8 | 1.4 |
| Hexachloroethane | ND | 9.8 | 0.41 |
| Nitrobenzene | ND | 9.8 | 0.58 |
| Isophorone | ND | 9.8 | 0.38 |
| 2-Nitrophenol | ND | 20 | 1.6 |
| 2,4-Dimethylphenol | ND | 9.8 | 1.2 |
| Benzoic acid | ND | 49 | 20 |
| bis(2-Chloroethoxy)methane | ND | 9.8 | 0.56 |
| 2,4-Dichlorophenol | ND | 9.8 | 0.71 |
| 1,2,4-Trichlorobenzene | ND | 9.8 | 0.31 |
| Naphthalene | ND | 9.8 | 0.26 |
| 4-Chloroaniline | ND | 9.8 | 0.97 |
| Hexachlorobutadiene | ND | 9.8 | 0.36 |
| 4-Chloro-3-methylphenol | ND | 9.8 | 0.73 |
| 2-Methylnaphthalene | ND | 9.8 | 0.28 |
| Hexachlorocyclopentadiene | ND | 20 | 0.77 |
| 2,4,6-Trichlorophenol | ND | 9.8 | 0.76 |
| 2,4,5-Trichlorophenol | ND | 9.8 | 0.95 |
| 2-Chloronaphthalene | ND | 9.8 | 0.37 |
| 2-Nitroaniline | ND | 20 | 0.87 |
| Dimethylphthalate | ND | 9.8 | 0.24 |
| Acenaphthylene | ND | 9.8 | 0.44 |
| 2,6-Dinitrotoluene | ND | 9.8 | 0.76 |
| 3-Nitroaniline | ND | 20 | 0.71 |
| Acenaphthene | ND | 9.8 | 0.32 |
| 2,4-Dinitrophenol | ND | 20 | 5.2 |
| 4-Nitrophenol | ND | 20 | 1.2 |
| Dibenzofuran | ND | 9.8 | 0.43 |
| 2,4-Dinitrotoluene | ND | 9.8 | 0.23 |
| Diethylphthalate | ND | 9.8 | 0.35 |
| Fluorene | ND | 9.8 | 0.18 |
| 4-Chlorophenyl-phenylether | ND | 9.8 | 0.29 |
| 4-Nitroaniline | ND | 20 | 0.65 |
| 4,6-Dinitro-2-methylphenol | ND | 20 | 0.70 |
| N-Nitrosodiphenylamine | ND | 9.8 | 0.37 |
| Azobenzene | ND | 9.8 | 0.77 |
| 4-Bromophenyl-phenylether | ND | 9.8 | 0.35 |
| Hexachlorobenzene | ND | 9.8 | 0.72 |
| Pentachlorophenol | ND | 20 | 0.74 |
| Phenanthrene | ND | 9.8 | 0.41 |
| Anthracene | ND | 9.8 | 0.29 |
| Di-n-butylphthalate | ND | 9.8 | 0.44 |

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



15.0

Curtis & Tompkins, Ltd.
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# Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181365 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8270C |
| Field ID: | MW10.1-081805 | Batch#: | 105054 |
| Lab ID: | 181365-002 | Sampled: | 08/18/05 |
| Matrix: | Water | Received: | 08/19/05 |
| Units: | ug/L | Prepared: | 08/22/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/24/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Fluoranthene | ND | 9.8 | 0.23 |
| Pyrene | ND | 9.8 | 0.39 |
| Butylbenzylphthalate | ND | 9.8 | 0.37 |
| 3,3'-Dichlorobenzidine | ND | 20 | 0.43 |
| Benzo(a)anthracene | ND | 9.8 | 0.60 |
| Chrysene | ND | 9.8 | 0.28 |
| bis(2-Ethylhexyl)phthalate | 1.7 J | 9.8 | 0.52 |
| Di-n-octylphthalate | ND | 9.8 | 0.18 |
| Benzo(b)fluoranthene | ND | 9.8 | 0.15 |
| Benzo(k)fluoranthene | ND | 9.8 | 0.40 |
| Benzo(a)pyrene | ND | 9.8 | 0.15 |
| Indeno(1,2,3-cd)pyrene | ND | 9.8 | 0.41 |
| Dibenz(a,h)anthracene | ND | 9.8 | 0.24 |
| Benzo(g,h,i)perylene | ND | 9.8 | 0.55 |

| Surrogate | %REC | Limits |
|---|---|---|
| 2-Fluorophenol | 60 | 41-120 |
| Phenol-d5 | 63 | 41-120 |
| 2,4,6-Tribromophenol | 77 | 38-120 |
| Nitrobenzene-d5 | 77 | 47-120 |
| 2-Fluorobiphenyl | 78 | 44-120 |
| Terphenyl-d14 | 82 | 16-120 |

J= Estimated value
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



15.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181365 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8270C |
| Field ID: | MW10.2-081805 | Batch#: | 105054 |
| Lab ID: | 181365-003 | Sampled: | 08/18/05 |
| Matrix: | Water | Received: | 08/19/05 |
| Units: | ug/L | Prepared: | 08/22/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/24/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| N-Nitrosodimethylamine | ND | 9.7 | 0.93 |
| Phenol | ND | 9.7 | 0.41 |
| bis(2-Chloroethyl)ether | ND | 9.7 | 0.47 |
| 2-Chlorophenol | ND | 9.7 | 0.65 |
| 1,3-Dichlorobenzene | ND | 9.7 | 0.67 |
| 1,4-Dichlorobenzene | ND | 9.7 | 0.54 |
| Benzyl alcohol | ND | 9.7 | 0.52 |
| 1,2-Dichlorobenzene | ND | 9.7 | 0.36 |
| 2-Methylphenol | ND | 9.7 | 1.0 |
| bis(2-Chloroisopropyl) ether | ND | 9.7 | 0.53 |
| 4-Methylphenol | ND | 9.7 | 0.57 |
| N-Nitroso-di-n-propylamine | ND | 9.7 | 0.62 |
| Hexachloroethane | ND | 9.7 | 0.75 |
| Nitrobenzene | ND | 9.7 | 0.26 |
| Isophorone | ND | 9.7 | 0.47 |
| 2-Nitrophenol | ND | 19 | 0.88 |
| 2,4-Dimethylphenol | ND | 9.7 | 1.0 |
| Benzoic acid | ND | 49 | 0.13 |
| bis(2-Chloroethoxy)methane | ND | 9.7 | 0.52 |
| 2,4-Dichlorophenol | ND | 9.7 | 0.41 |
| 1,2,4-Trichlorobenzene | ND | 9.7 | 0.58 |
| Naphthalene | ND | 9.7 | 0.30 |
| 4-Chloroaniline | ND | 9.7 | 2.3 |
| Hexachlorobutadiene | ND | 9.7 | 0.75 |
| 4-Chloro-3-methylphenol | ND | 9.7 | 0.59 |
| 2-Methylnaphthalene | ND | 9.7 | 0.65 |
| Hexachlorocyclopentadiene | ND | 19 | 0.31 |
| 2,4,6-Trichlorophenol | ND | 9.7 | 1.0 |
| 2,4,5-Trichlorophenol | ND | 9.7 | 1.1 |
| 2-Chloronaphthalene | ND | 9.7 | 0.37 |
| 2-Nitroaniline | ND | 19 | 0.76 |
| Dimethylphthalate | ND | 9.7 | 0.41 |
| Acenaphthylene | ND | 9.7 | 0.34 |
| 2,6-Dinitrotoluene | ND | 9.7 | 0.43 |
| 3-Nitroaniline | ND | 19 | 0.38 |
| Acenaphthene | ND | 9.7 | 0.33 |
| 2,4-Dinitrophenol | ND | 19 | 0.43 |
| 4-Nitrophenol | ND | 19 | 1.8 |
| Dibenzofuran | ND | 9.7 | 1.1 |
| 2,4-Dinitrotoluene | ND | 9.7 | 0.30 |
| Diethylphthalate | ND | 9.7 | 0.32 |
| Fluorene | ND | 9.7 | 0.94 |
| 4-Chlorophenyl-phenylether | ND | 9.7 | 0.77 |
| 4-Nitroaniline | ND | 19 | 0.98 |
| 4,6-Dinitro-2-methylphenol | ND | 19 | 1.1 |
| N-Nitrosodiphenylamine | ND | 9.7 | 0.29 |
| Azobenzene | ND | 9.7 | 0.58 |
| 4-Bromophenyl-phenylether | ND | 9.7 | 0.47 |
| Hexachlorobenzene | ND | 9.7 | 0.55 |
| Pentachlorophenol | ND | 19 | 0.45 |
| Phenanthrene | ND | 9.7 | 0.56 |
| Anthracene | ND | 9.7 | 0.26 |
| Di-n-butylphthalate | ND | 9.7 | 0.37 |
| Fluoranthene | ND | 9.7 | 0.46 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



16.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181365 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8270C |
| Field ID: | MW10.2-081805 | Batch#: | 105054 |
| Lab ID: | 181365-003 | Sampled: | 08/18/05 |
| Matrix: | Water | Received: | 08/19/05 |
| Units: | ug/L | Prepared: | 08/22/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/24/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Pyrene | ND | 9.7 | 0.53 |
| Butylbenzylphthalate | ND | 9.7 | 0.50 |
| 3,3'-Dichlorobenzidine | ND | 19 | 0.44 |
| Benzo(a)anthracene | ND | 9.7 | 0.61 |
| Chrysene | ND | 9.7 | 0.67 |
| bis(2-Ethylhexyl)phthalate | ND | 9.7 | 1.2 |
| Di-n-octylphthalate | ND | 9.7 | 0.13 |
| Benzo(b)fluoranthene | ND | 9.7 | 0.44 |
| Benzo(k)fluoranthene | ND | 9.7 | 0.51 |
| Benzo(a)pyrene | ND | 9.7 | 0.51 |
| Indeno(1,2,3-cd)pyrene | ND | 9.7 | 0.31 |
| Dibenz(a,h)anthracene | ND | 9.7 | 0.28 |
| Benzo(g,h,i)perylene | ND | 9.7 | 0.27 |

| Surrogate | %REC | Limits |
|---|---|---|
| 2-Fluorophenol | 79 | 41-120 |
| Phenol-d5 | 72 | 41-120 |
| 2,4,6-Tribromophenol | 81 | 38-120 |
| Nitrobenzene-d5 | 85 | 47-120 |
| 2-Fluorobiphenyl | 79 | 44-120 |
| Terphenyl-d14 | 69 | 16-120 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



16.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181365 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8270C |
| Field ID: | MWDUP3081805 | Batch#: | 105054 |
| Lab ID: | 181365-004 | Sampled: | 08/18/05 |
| Matrix: | Water | Received: | 08/19/05 |
| Units: | ug/L | Prepared: | 08/22/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/23/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| N-Nitrosodimethylamine | ND | 9.8 | 0.94 |
| Phenol | ND | 9.8 | 0.41 |
| bis(2-Chloroethyl)ether | ND | 9.8 | 0.47 |
| 2-Chlorophenol | ND | 9.8 | 0.65 |
| 1,3-Dichlorobenzene | ND | 9.8 | 0.67 |
| 1,4-Dichlorobenzene | ND | 9.8 | 0.55 |
| Benzyl alcohol | ND | 9.8 | 0.53 |
| 1,2-Dichlorobenzene | ND | 9.8 | 0.37 |
| 2-Methylphenol | ND | 9.8 | 1.0 |
| bis(2-Chloroisopropyl) ether | ND | 9.8 | 0.53 |
| 4-Methylphenol | ND | 9.8 | 0.58 |
| N-Nitroso-di-n-propylamine | ND | 9.8 | 0.63 |
| Hexachloroethane | ND | 9.8 | 0.76 |
| Nitrobenzene | ND | 9.8 | 0.27 |
| Isophorone | ND | 9.8 | 0.48 |
| 2-Nitrophenol | ND | 20 | 0.89 |
| 2,4-Dimethylphenol | ND | 9.8 | 1.0 |
| Benzoic acid | ND | 49 | 0.13 |
| bis(2-Chloroethoxy)methane | ND | 9.8 | 0.52 |
| 2,4-Dichlorophenol | ND | 9.8 | 0.41 |
| 1,2,4-Trichlorobenzene | ND | 9.8 | 0.59 |
| Naphthalene | ND | 9.8 | 0.30 |
| 4-Chloroaniline | ND | 9.8 | 2.3 |
| Hexachlorobutadiene | ND | 9.8 | 0.76 |
| 4-Chloro-3-methylphenol | ND | 9.8 | 0.60 |
| 2-Methylnaphthalene | ND | 9.8 | 0.66 |
| Hexachlorocyclopentadiene | ND | 20 | 0.32 |
| 2,4,6-Trichlorophenol | ND | 9.8 | 1.1 |
| 2,4,5-Trichlorophenol | ND | 9.8 | 1.1 |
| 2-Chloronaphthalene | ND | 9.8 | 0.37 |
| 2-Nitroaniline | ND | 20 | 0.77 |
| Dimethylphthalate | ND | 9.8 | 0.41 |
| Acenaphthylene | ND | 9.8 | 0.34 |
| 2,6-Dinitrotoluene | ND | 9.8 | 0.44 |
| 3-Nitroaniline | ND | 20 | 0.39 |
| Acenaphthene | ND | 9.8 | 0.34 |
| 2,4-Dinitrophenol | ND | 20 | 0.43 |
| 4-Nitrophenol | ND | 20 | 1.8 |
| Dibenzofuran | ND | 9.8 | 1.1 |
| 2,4-Dinitrotoluene | ND | 9.8 | 0.30 |
| Diethylphthalate | ND | 9.8 | 0.32 |
| Fluorene | ND | 9.8 | 0.95 |
| 4-Chlorophenyl-phenylether | ND | 9.8 | 0.78 |
| 4-Nitroaniline | ND | 20 | 0.99 |
| 4,6-Dinitro-2-methylphenol | ND | 20 | 1.1 |
| N-Nitrosodiphenylamine | ND | 9.8 | 0.29 |
| Azobenzene | ND | 9.8 | 0.59 |
| 4-Bromophenyl-phenylether | ND | 9.8 | 0.48 |
| Hexachlorobenzene | ND | 9.8 | 0.56 |
| Pentachlorophenol | ND | 20 | 0.45 |
| Phenanthrene | ND | 9.8 | 0.57 |
| Anthracene | ND | 9.8 | 0.27 |
| Di-n-butylphthalate | ND | 9.8 | 0.37 |
| Fluoranthene | ND | 9.8 | 0.46 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



17.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181365 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8270C |
| Field ID: | MWDUP3081805 | Batch#: | 105054 |
| Lab ID: | 181365-004 | Sampled: | 08/18/05 |
| Matrix: | Water | Received: | 08/19/05 |
| Units: | ug/L | Prepared: | 08/22/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/23/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Pyrene | ND | 9.8 | 0.54 |
| Butylbenzylphthalate | ND | 9.8 | 0.50 |
| 3,3'-Dichlorobenzidine | ND | 20 | 0.44 |
| Benzo(a)anthracene | ND | 9.8 | 0.62 |
| Chrysene | ND | 9.8 | 0.67 |
| bis(2-Ethylhexyl)phthalate | ND | 9.8 | 1.2 |
| Di-n-octylphthalate | ND | 9.8 | 0.13 |
| Benzo(b)fluoranthene | ND | 9.8 | 0.44 |
| Benzo(k)fluoranthene | ND | 9.8 | 0.51 |
| Benzo(a)pyrene | ND | 9.8 | 0.51 |
| Indeno(1,2,3-cd)pyrene | ND | 9.8 | 0.31 |
| Dibenz(a,h)anthracene | ND | 9.8 | 0.28 |
| Benzo(g,h,i)perylene | ND | 9.8 | 0.27 |

| Surrogate | %REC | Limits |
|---|---|---|
| 2-Fluorophenol | 78 | 41-120 |
| Phenol-d5 | 71 | 41-120 |
| 2,4,6-Tribromophenol | 77 | 38-120 |
| Nitrobenzene-d5 | 88 | 47-120 |
| 2-Fluorobiphenyl | 80 | 44-120 |
| Terphenyl-d14 | 70 | 16-120 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



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Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181365 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8270C |
| Field ID: | SP3.1081905 | Batch#: | 105054 |
| Lab ID: | 181365-005 | Sampled: | 08/19/05 |
| Matrix: | Water | Received: | 08/19/05 |
| Units: | ug/L | Prepared: | 08/22/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/23/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| N-Nitrosodimethylamine | ND | 9.8 | 0.94 |
| Phenol | ND | 9.8 | 0.41 |
| bis(2-Chloroethyl)ether | ND | 9.8 | 0.47 |
| 2-Chlorophenol | ND | 9.8 | 0.65 |
| 1,3-Dichlorobenzene | ND | 9.8 | 0.67 |
| 1,4-Dichlorobenzene | ND | 9.8 | 0.55 |
| Benzyl alcohol | ND | 9.8 | 0.53 |
| 1,2-Dichlorobenzene | ND | 9.8 | 0.37 |
| 2-Methylphenol | ND | 9.8 | 1.0 |
| bis(2-Chloroisopropyl) ether | ND | 9.8 | 0.53 |
| 4-Methylphenol | ND | 9.8 | 0.58 |
| N-Nitroso-di-n-propylamine | ND | 9.8 | 0.63 |
| Hexachloroethane | ND | 9.8 | 0.76 |
| Nitrobenzene | ND | 9.8 | 0.27 |
| Isophorone | ND | 9.8 | 0.48 |
| 2-Nitrophenol | ND | 20 | 0.89 |
| 2,4-Dimethylphenol | ND | 9.8 | 1.0 |
| Benzoic acid | ND | 49 | 0.13 |
| bis(2-Chloroethoxy)methane | ND | 9.8 | 0.52 |
| 2,4-Dichlorophenol | ND | 9.8 | 0.41 |
| 1,2,4-Trichlorobenzene | ND | 9.8 | 0.59 |
| Naphthalene | ND | 9.8 | 0.30 |
| 4-Chloroaniline | ND | 9.8 | 2.3 |
| Hexachlorobutadiene | ND | 9.8 | 0.76 |
| 4-Chloro-3-methylphenol | ND | 9.8 | 0.60 |
| 2-Methylnaphthalene | ND | 9.8 | 0.66 |
| Hexachlorocyclopentadiene | ND | 20 | 0.32 |
| 2,4,6-Trichlorophenol | ND | 9.8 | 1.1 |
| 2,4,5-Trichlorophenol | ND | 9.8 | 1.1 |
| 2-Chloronaphthalene | ND | 9.8 | 0.37 |
| 2-Nitroaniline | ND | 20 | 0.77 |
| Dimethylphthalate | ND | 9.8 | 0.41 |
| Acenaphthylene | ND | 9.8 | 0.34 |
| 2,6-Dinitrotoluene | ND | 9.8 | 0.44 |
| 3-Nitroaniline | ND | 20 | 0.39 |
| Acenaphthene | ND | 9.8 | 0.34 |
| 2,4-Dinitrophenol | ND | 20 | 0.43 |
| 4-Nitrophenol | ND | 20 | 1.8 |
| Dibenzofuran | ND | 9.8 | 1.1 |
| 2,4-Dinitrotoluene | ND | 9.8 | 0.30 |
| Diethylphthalate | ND | 9.8 | 0.32 |
| Fluorene | ND | 9.8 | 0.95 |
| 4-Chlorophenyl-phenylether | ND | 9.8 | 0.78 |
| 4-Nitroaniline | ND | 20 | 0.99 |
| 4,6-Dinitro-2-methylphenol | ND | 20 | 1.1 |
| N-Nitrosodiphenylamine | ND | 9.8 | 0.29 |
| Azobenzene | ND | 9.8 | 0.59 |
| 4-Bromophenyl-phenylether | ND | 9.8 | 0.48 |
| Hexachlorobenzene | ND | 9.8 | 0.56 |
| Pentachlorophenol | ND | 20 | 0.45 |
| Phenanthrene | ND | 9.8 | 0.57 |
| Anthracene | ND | 9.8 | 0.27 |
| Di-n-butylphthalate | ND | 9.8 | 0.37 |
| Fluoranthene | ND | 9.8 | 0.46 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



18.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181365 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8270C |
| Field ID: | SP3.1081905 | Batch#: | 105054 |
| Lab ID: | 181365-005 | Sampled: | 08/19/05 |
| Matrix: | Water | Received: | 08/19/05 |
| Units: | ug/L | Prepared: | 08/22/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/23/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Pyrene | ND | 9.8 | 0.54 |
| Butylbenzylphthalate | ND | 9.8 | 0.50 |
| 3,3'-Dichlorobenzidine | ND | 20 | 0.44 |
| Benzo(a)anthracene | ND | 9.8 | 0.62 |
| Chrysene | ND | 9.8 | 0.67 |
| bis(2-Ethylhexyl)phthalate | ND | 9.8 | 1.2 |
| Di-n-octylphthalate | ND | 9.8 | 0.13 |
| Benzo(b)fluoranthene | ND | 9.8 | 0.44 |
| Benzo(k)fluoranthene | ND | 9.8 | 0.51 |
| Benzo(a)pyrene | ND | 9.8 | 0.51 |
| Indeno(1,2,3-cd)pyrene | ND | 9.8 | 0.31 |
| Dibenz(a,h)anthracene | ND | 9.8 | 0.28 |
| Benzo(g,h,i)perylene | ND | 9.8 | 0.27 |

| Surrogate | %REC | Limits |
|---|---|---|
| 2-Fluorophenol | 80 | 41-120 |
| Phenol-d5 | 77 | 41-120 |
| 2,4,6-Tribromophenol | 85 | 38-120 |
| Nitrobenzene-d5 | 86 | 47-120 |
| 2-Fluorobiphenyl | 88 | 44-120 |
| Terphenyl-d14 | 76 | 16-120 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



18.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

## Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181365 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8270C |
| Type: | BLANK | Diln Fac: | 1.000 |
| Lab ID: | QC305949 | Batch#: | 105054 |
| Matrix: | Water | Prepared: | 08/22/05 |
| Units: | ug/L | Analyzed: | 08/23/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| N-Nitrosodimethylamine | ND | 10 | 0.96 |
| Phenol | ND | 10 | 0.42 |
| bis(2-Chloroethyl)ether | ND | 10 | 0.48 |
| 2-Chlorophenol | ND | 10 | 0.66 |
| 1,3-Dichlorobenzene | ND | 10 | 0.69 |
| 1,4-Dichlorobenzene | ND | 10 | 0.56 |
| Benzyl alcohol | ND | 10 | 0.54 |
| 1,2-Dichlorobenzene | ND | 10 | 0.37 |
| 2-Methylphenol | ND | 10 | 1.0 |
| bis(2-Chloroisopropyl) ether | ND | 10 | 0.54 |
| 4-Methylphenol | ND | 10 | 0.59 |
| N-Nitroso-di-n-propylamine | ND | 10 | 0.64 |
| Hexachloroethane | ND | 10 | 0.78 |
| Nitrobenzene | ND | 10 | 0.27 |
| Isophorone | ND | 10 | 0.49 |
| 2-Nitrophenol | ND | 20 | 0.91 |
| 2,4-Dimethylphenol | ND | 10 | 1.0 |
| Benzoic acid | ND | 50 | 0.13 |
| bis(2-Chloroethoxy)methane | ND | 10 | 0.53 |
| 2,4-Dichlorophenol | ND | 10 | 0.42 |
| 1,2,4-Trichlorobenzene | ND | 10 | 0.60 |
| Naphthalene | ND | 10 | 0.31 |
| 4-Chloroaniline | ND | 10 | 2.3 |
| Hexachlorobutadiene | ND | 10 | 0.77 |
| 4-Chloro-3-methylphenol | ND | 10 | 0.61 |
| 2-Methylnaphthalene | ND | 10 | 0.67 |
| Hexachlorocyclopentadiene | ND | 20 | 0.32 |
| 2,4,6-Trichlorophenol | ND | 10 | 1.1 |
| 2,4,5-Trichlorophenol | ND | 10 | 1.1 |
| 2-Chloronaphthalene | ND | 10 | 0.38 |
| 2-Nitroaniline | ND | 20 | 0.78 |
| Dimethylphthalate | ND | 10 | 0.42 |
| Acenaphthylene | ND | 10 | 0.35 |
| 2,6-Dinitrotoluene | ND | 10 | 0.45 |
| 3-Nitroaniline | ND | 20 | 0.40 |
| Acenaphthene | ND | 10 | 0.34 |
| 2,4-Dinitrophenol | ND | 20 | 0.44 |
| 4-Nitrophenol | ND | 20 | 1.8 |
| Dibenzofuran | ND | 10 | 1.2 |
| 2,4-Dinitrotoluene | ND | 10 | 0.31 |
| Diethylphthalate | ND | 10 | 0.33 |
| Fluorene | ND | 10 | 0.96 |
| 4-Chlorophenyl-phenylether | ND | 10 | 0.79 |
| 4-Nitroaniline | ND | 20 | 1.0 |
| 4,6-Dinitro-2-methylphenol | ND | 20 | 1.1 |
| N-Nitrosodiphenylamine | ND | 10 | 0.30 |
| Azobenzene | ND | 10 | 0.60 |
| 4-Bromophenyl-phenylether | ND | 10 | 0.49 |
| Hexachlorobenzene | ND | 10 | 0.57 |
| Pentachlorophenol | ND | 20 | 0.46 |
| Phenanthrene | ND | 10 | 0.58 |
| Anthracene | ND | 10 | 0.27 |
| Di-n-butylphthalate | ND | 10 | 0.38 |
| Fluoranthene | ND | 10 | 0.47 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



19.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

## Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181365 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8270C |
| Type: | BLANK | Diln Fac: | 1.000 |
| Lab ID: | QC305949 | Batch#: | 105054 |
| Matrix: | Water | Prepared: | 08/22/05 |
| Units: | ug/L | Analyzed: | 08/23/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Pyrene | ND | 10 | 0.55 |
| Butylbenzylphthalate | ND | 10 | 0.51 |
| 3,3'-Dichlorobenzidine | ND | 20 | 0.45 |
| Benzo(a)anthracene | ND | 10 | 0.63 |
| Chrysene | ND | 10 | 0.69 |
| bis(2-Ethylhexyl)phthalate | ND | 10 | 1.2 |
| Di-n-octylphthalate | ND | 10 | 0.14 |
| Benzo(b)fluoranthene | ND | 10 | 0.45 |
| Benzo(k)fluoranthene | ND | 10 | 0.52 |
| Benzo(a)pyrene | ND | 10 | 0.52 |
| Indeno(1,2,3-cd)pyrene | ND | 10 | 0.32 |
| Dibenz(a,h)anthracene | ND | 10 | 0.29 |
| Benzo(g,h,i)perylene | ND | 10 | 0.28 |

| Surrogate | %REC | Limits |
|---|---|---|
| 2-Fluorophenol | 78 | 41-120 |
| Phenol-d5 | 69 | 41-120 |
| 2,4,6-Tribromophenol | 65 | 38-120 |
| Nitrobenzene-d5 | 81 | 47-120 |
| 2-Fluorobiphenyl | 75 | 44-120 |
| Terphenyl-d14 | 67 | 16-120 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



19.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

## Semivolatile Organics by GC/MS

| | | | |
|---|---|---|---|
| Lab #: | 181365 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8270C |
| Matrix: | Water | Batch#: | 105054 |
| Units: | ug/L | Prepared: | 08/22/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/24/05 |

Type: BS Lab ID: QC305950

| Analyte | Spiked | Result | %REC | Limits |
|---|---|---|---|---|
| Phenol | 100.0 | 76.86 | 77 | 43-120 |
| 2-Chlorophenol | 100.0 | 81.97 | 82 | 51-120 |
| 1,4-Dichlorobenzene | 50.00 | 24.45 | 49 | 36-120 |
| N-Nitroso-di-n-propylamine | 50.00 | 40.91 | 82 | 45-120 |
| 1,2,4-Trichlorobenzene | 50.00 | 32.85 | 66 | 38-120 |
| 4-Chloro-3-methylphenol | 100.0 | 84.65 | 85 | 48-120 |
| Acenaphthene | 50.00 | 41.79 | 84 | 43-120 |
| 4-Nitrophenol | 100.0 | 105.2 | 105 | 43-120 |
| 2,4-Dinitrotoluene | 50.00 | 43.44 | 87 | 46-120 |
| Pentachlorophenol | 100.0 | 101.5 | 101 | 35-120 |
| Pyrene | 50.00 | 39.53 | 79 | 38-120 |

| Surrogate | %REC | Limits |
|---|---|---|
| 2-Fluorophenol | 80 | 41-120 |
| Phenol-d5 | 78 | 41-120 |
| 2,4,6-Tribromophenol | 94 | 38-120 |
| Nitrobenzene-d5 | 87 | 47-120 |
| 2-Fluorobiphenyl | 92 | 44-120 |
| Terphenyl-d14 | 77 | 16-120 |

Type: BSD Lab ID: QC305951

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|
| Phenol | 100.0 | 76.78 | 77 | 43-120 | 0 | 25 |
| 2-Chlorophenol | 100.0 | 82.24 | 82 | 51-120 | 0 | 24 |
| 1,4-Dichlorobenzene | 50.00 | 24.12 | 48 | 36-120 | 1 | 35 |
| N-Nitroso-di-n-propylamine | 50.00 | 39.92 | 80 | 45-120 | 2 | 27 |
| 1,2,4-Trichlorobenzene | 50.00 | 32.16 | 64 | 38-120 | 2 | 30 |
| 4-Chloro-3-methylphenol | 100.0 | 83.09 | 83 | 48-120 | 2 | 25 |
| Acenaphthene | 50.00 | 40.86 | 82 | 43-120 | 2 | 24 |
| 4-Nitrophenol | 100.0 | 102.1 | 102 | 43-120 | 3 | 23 |
| 2,4-Dinitrotoluene | 50.00 | 42.73 | 85 | 46-120 | 2 | 24 |
| Pentachlorophenol | 100.0 | 99.86 | 100 | 35-120 | 2 | 28 |
| Pyrene | 50.00 | 39.06 | 78 | 38-120 | 1 | 24 |

| Surrogate | %REC | Limits |
|---|---|---|
| 2-Fluorophenol | 81 | 41-120 |
| Phenol-d5 | 79 | 41-120 |
| 2,4,6-Tribromophenol | 95 | 38-120 |
| Nitrobenzene-d5 | 87 | 47-120 |
| 2-Fluorobiphenyl | 90 | 44-120 |
| Terphenyl-d14 | 77 | 16-120 |

RPD= Relative Percent Difference

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# Polychlorinated Biphenyl Congeners

| | | | |
|---|---|---|---|
| Lab #: | 181365 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8082 |
| Field ID: | MW10.1-081805 | Batch#: | 105026 |
| Lab ID: | 181365-002 | Sampled: | 08/18/05 |
| Matrix: | Water | Received: | 08/19/05 |
| Units: | ug/L | Prepared: | 08/20/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/22/05 |

Cleanup Method: EPA 3665A

| Analyte | Result | RL | MDL |
|---|---|---|---|
| BZ# 8 | ND | 0.049 | 0.012 |
| BZ# 18 | ND | 0.049 | 0.025 |
| BZ# 28 | ND | 0.049 | 0.020 |
| BZ# 52 | ND | 0.049 | 0.019 |
| BZ# 44 | ND | 0.049 | 0.0097 |
| BZ# 66 | ND | 0.049 | 0.0099 |
| BZ# 101 | ND | 0.049 | 0.013 |
| BZ# 81 | ND | 0.049 | 0.019 |
| BZ# 77 | ND | 0.049 | 0.010 |
| BZ# 123 | ND | 0.049 | 0.011 |
| BZ# 118 | ND | 0.049 | 0.010 |
| BZ# 114 | ND | 0.049 | 0.010 |
| BZ# 153 | ND | 0.049 | 0.015 |
| BZ# 105 | ND | 0.049 | 0.012 |
| BZ# 138 | ND | 0.049 | 0.011 |
| BZ# 187 | ND | 0.049 | 0.010 |
| BZ# 126 | ND | 0.049 | 0.012 |
| BZ# 128 | ND | 0.049 | 0.011 |
| BZ# 167 | ND | 0.049 | 0.010 |
| BZ# 156 | ND | 0.049 | 0.012 |
| BZ# 157 | ND | 0.049 | 0.011 |
| BZ# 180 | ND | 0.049 | 0.011 |
| BZ# 170 | ND | 0.049 | 0.015 |
| BZ# 169 | ND | 0.049 | 0.013 |
| BZ# 189 | ND | 0.049 | 0.014 |
| BZ# 195 | ND | 0.049 | 0.013 |
| BZ# 206 | ND | 0.049 | 0.012 |
| BZ# 209 | ND | 0.049 | 0.015 |

| Surrogate | %REC | Limits |
|---|---|---|
| TCMX | 36 * | 37-140 |
| BZ# 205 | 94 | 37-140 |

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



5.0

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Analytical Laboratories, Since 1878

# Polychlorinated Biphenyl Congeners

| | | | |
|---|---|---|---|
| Lab #: | 181365 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8082 |
| Field ID: | MW10.2-081805 | Batch#: | 105026 |
| Lab ID: | 181365-003 | Sampled: | 08/18/05 |
| Matrix: | Water | Received: | 08/19/05 |
| Units: | ug/L | Prepared: | 08/20/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/22/05 |

Cleanup Method: EPA 3665A

| Analyte | Result | RL | MDL |
|---|---|---|---|
| BZ# 8 | ND | 0.048 | 0.012 |
| BZ# 18 | ND | 0.048 | 0.024 |
| BZ# 28 | ND | 0.048 | 0.020 |
| BZ# 52 | ND | 0.048 | 0.019 |
| BZ# 44 | ND | 0.048 | 0.0097 |
| BZ# 66 | ND | 0.048 | 0.0098 |
| BZ# 101 | ND | 0.048 | 0.013 |
| BZ# 81 | ND | 0.048 | 0.019 |
| BZ# 77 | ND | 0.048 | 0.010 |
| BZ# 123 | ND | 0.048 | 0.011 |
| BZ# 118 | ND | 0.048 | 0.010 |
| BZ# 114 | ND | 0.048 | 0.010 |
| BZ# 153 | ND | 0.048 | 0.014 |
| BZ# 105 | ND | 0.048 | 0.012 |
| BZ# 138 | ND | 0.048 | 0.011 |
| BZ# 187 | ND | 0.048 | 0.0099 |
| BZ# 126 | ND | 0.048 | 0.012 |
| BZ# 128 | ND | 0.048 | 0.011 |
| BZ# 167 | ND | 0.048 | 0.010 |
| BZ# 156 | ND | 0.048 | 0.012 |
| BZ# 157 | ND | 0.048 | 0.011 |
| BZ# 180 | ND | 0.048 | 0.011 |
| BZ# 170 | ND | 0.048 | 0.014 |
| BZ# 169 | ND | 0.048 | 0.013 |
| BZ# 189 | ND | 0.048 | 0.014 |
| BZ# 195 | ND | 0.048 | 0.013 |
| BZ# 206 | ND | 0.048 | 0.012 |
| BZ# 209 | ND | 0.048 | 0.015 |

| Surrogate | %REC | Limits |
|---|---|---|
| TCMX | 38 | 37-140 |
| BZ# 205 | 101 | 37-140 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



6.0

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Analytical Laboratories, Since 1878

# Polychlorinated Biphenyl Congeners

| | | | |
|---|---|---|---|
| Lab #: | 181365 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8082 |
| Field ID: | MWDUP3081805 | Batch#: | 105026 |
| Lab ID: | 181365-004 | Sampled: | 08/18/05 |
| Matrix: | Water | Received: | 08/19/05 |
| Units: | ug/L | Prepared: | 08/20/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/22/05 |

Cleanup Method: EPA 3665A

| Analyte | Result | RL | MDL |
|---|---|---|---|
| BZ# 8 | ND | 0.048 | 0.012 |
| BZ# 18 | ND | 0.048 | 0.024 |
| BZ# 28 | ND | 0.048 | 0.020 |
| BZ# 52 | ND | 0.048 | 0.019 |
| BZ# 44 | ND | 0.048 | 0.0097 |
| BZ# 66 | ND | 0.048 | 0.0098 |
| BZ# 101 | ND | 0.048 | 0.013 |
| BZ# 81 | ND | 0.048 | 0.019 |
| BZ# 77 | ND | 0.048 | 0.010 |
| BZ# 123 | ND | 0.048 | 0.011 |
| BZ# 118 | ND | 0.048 | 0.010 |
| BZ# 114 | ND | 0.048 | 0.010 |
| BZ# 153 | ND | 0.048 | 0.014 |
| BZ# 105 | ND | 0.048 | 0.012 |
| BZ# 138 | ND | 0.048 | 0.011 |
| BZ# 187 | ND | 0.048 | 0.0099 |
| BZ# 126 | ND | 0.048 | 0.012 |
| BZ# 128 | ND | 0.048 | 0.011 |
| BZ# 167 | ND | 0.048 | 0.010 |
| BZ# 156 | ND | 0.048 | 0.012 |
| BZ# 157 | ND | 0.048 | 0.011 |
| BZ# 180 | ND | 0.048 | 0.011 |
| BZ# 170 | ND | 0.048 | 0.014 |
| BZ# 169 | ND | 0.048 | 0.013 |
| BZ# 189 | ND | 0.048 | 0.014 |
| BZ# 195 | ND | 0.048 | 0.013 |
| BZ# 206 | ND | 0.048 | 0.012 |
| BZ# 209 | ND | 0.048 | 0.015 |

| Surrogate | %REC | Limits |
|---|---|---|
| TCMX | 33 * | 37-140 |
| BZ# 205 | 76 | 37-140 |

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



7.0

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# Polychlorinated Biphenyl Congeners

| | | | |
|---|---|---|---|
| Lab #: | 181365 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8082 |
| Field ID: | SP3.1081905 | Batch#: | 105053 |
| Lab ID: | 181365-005 | Sampled: | 08/19/05 |
| Matrix: | Water | Received: | 08/19/05 |
| Units: | ug/L | Prepared: | 08/22/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/24/05 |

Cleanup Method: EPA 3665A

| Analyte | Result | RL | MDL |
|---|---|---|---|
| BZ# 8 | ND | 0.048 | 0.012 |
| BZ# 18 | ND | 0.048 | 0.024 |
| BZ# 28 | ND | 0.048 | 0.020 |
| BZ# 52 | ND | 0.048 | 0.019 |
| BZ# 44 | ND | 0.048 | 0.0097 |
| BZ# 66 | ND | 0.048 | 0.0098 |
| BZ# 101 | ND | 0.048 | 0.013 |
| BZ# 81 | ND | 0.048 | 0.019 |
| BZ# 77 | ND | 0.048 | 0.010 |
| BZ# 123 | ND | 0.048 | 0.011 |
| BZ# 118 | ND | 0.048 | 0.010 |
| BZ# 114 | ND | 0.048 | 0.010 |
| BZ# 153 | ND | 0.048 | 0.014 |
| BZ# 105 | ND | 0.048 | 0.012 |
| BZ# 138 | ND | 0.048 | 0.011 |
| BZ# 187 | ND | 0.048 | 0.0099 |
| BZ# 126 | ND | 0.048 | 0.012 |
| BZ# 128 | ND | 0.048 | 0.011 |
| BZ# 167 | ND | 0.048 | 0.010 |
| BZ# 156 | ND | 0.048 | 0.012 |
| BZ# 157 | ND | 0.048 | 0.011 |
| BZ# 180 | ND | 0.048 | 0.011 |
| BZ# 170 | ND | 0.048 | 0.014 |
| BZ# 169 | ND | 0.048 | 0.013 |
| BZ# 189 | ND | 0.048 | 0.014 |
| BZ# 195 | ND | 0.048 | 0.013 |
| BZ# 206 | ND | 0.048 | 0.012 |
| BZ# 209 | ND | 0.048 | 0.015 |

| Surrogate | %REC | Limits |
|---|---|---|
| TCMX | 36 * | 37-140 |
| BZ# 205 | 79 | 37-140 |

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



8.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

## Polychlorinated Biphenyl Congeners

| | | | |
|---|---|---|---|
| Lab #: | 181365 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8082 |
| Type: | BLANK | Diln Fac: | 1.000 |
| Lab ID: | QC305827 | Batch#: | 105026 |
| Matrix: | Water | Prepared: | 08/20/05 |
| Units: | ug/L | Analyzed: | 08/21/05 |

Cleanup Method: EPA 3665A

| Analyte | Result | RL | MDL |
|---|---|---|---|
| BZ# 8 | ND | 0.050 | 0.012 |
| BZ# 18 | ND | 0.050 | 0.025 |
| BZ# 28 | ND | 0.050 | 0.020 |
| BZ# 52 | ND | 0.050 | 0.019 |
| BZ# 44 | ND | 0.050 | 0.010 |
| BZ# 66 | ND | 0.050 | 0.010 |
| BZ# 101 | ND | 0.050 | 0.013 |
| BZ# 81 | ND | 0.050 | 0.020 |
| BZ# 77 | ND | 0.050 | 0.011 |
| BZ# 123 | ND | 0.050 | 0.012 |
| BZ# 118 | ND | 0.050 | 0.011 |
| BZ# 114 | ND | 0.050 | 0.011 |
| BZ# 153 | ND | 0.050 | 0.015 |
| BZ# 105 | ND | 0.050 | 0.012 |
| BZ# 138 | ND | 0.050 | 0.011 |
| BZ# 187 | ND | 0.050 | 0.010 |
| BZ# 126 | ND | 0.050 | 0.013 |
| BZ# 128 | ND | 0.050 | 0.011 |
| BZ# 167 | ND | 0.050 | 0.010 |
| BZ# 156 | ND | 0.050 | 0.013 |
| BZ# 157 | ND | 0.050 | 0.011 |
| BZ# 180 | ND | 0.050 | 0.011 |
| BZ# 170 | ND | 0.050 | 0.015 |
| BZ# 169 | ND | 0.050 | 0.014 |
| BZ# 189 | ND | 0.050 | 0.015 |
| BZ# 195 | ND | 0.050 | 0.013 |
| BZ# 206 | ND | 0.050 | 0.012 |
| BZ# 209 | ND | 0.050 | 0.016 |

| Surrogate | %REC | Limits |
|---|---|---|
| TCMX | 63 | 37-140 |
| BZ# 205 | 85 | 37-140 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



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Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

## Polychlorinated Biphenyl Congeners

| | | | |
|---|---|---|---|
| Lab #: | 181365 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8082 |
| Type: | LCS | Diln Fac: | 1.000 |
| Lab ID: | QC305828 | Batch#: | 105026 |
| Matrix: | Water | Prepared: | 08/20/05 |
| Units: | ug/L | Analyzed: | 08/21/05 |

Cleanup Method: EPA 3665A

| Analyte | Spiked | Result | %REC | Limits |
|---|---|---|---|---|
| BZ# 8 | 1.000 | 0.8210 | 82 | 50-150 |
| BZ# 18 | 1.000 | 0.8434 | 84 | 50-150 |
| BZ# 28 | 1.000 | 0.8973 | 90 | 50-150 |
| BZ# 52 | 1.000 | 0.8038 | 80 | 50-150 |
| BZ# 44 | 1.000 | 0.8317 | 83 | 50-150 |
| BZ# 66 | 1.000 | 0.8917 | 89 | 50-150 |
| BZ# 101 | 1.000 | 0.8679 | 87 | 50-150 |
| BZ# 81 | 1.000 | 0.9865 | 99 | 50-150 |
| BZ# 77 | 1.000 | 1.087 # | 109 | 50-150 |
| BZ# 123 | 1.000 | 0.8935 | 89 | 50-150 |
| BZ# 118 | 1.000 | 0.8985 | 90 | 50-150 |
| BZ# 114 | 1.000 | 0.9169 | 92 | 50-150 |
| BZ# 153 | 1.000 | 0.8497 | 85 | 50-150 |
| BZ# 105 | 1.000 | 0.9570 | 96 | 50-150 |
| BZ# 138 | 1.000 | 0.8942 | 89 | 50-150 |
| BZ# 187 | 1.000 | 0.8277 | 83 | 50-150 |
| BZ# 126 | 1.000 | 1.042 | 104 | 50-150 |
| BZ# 128 | 1.000 | 0.8940 | 89 | 50-150 |
| BZ# 167 | 1.000 | 0.8994 | 90 | 50-150 |
| BZ# 156 | 1.000 | 0.8962 | 90 | 50-150 |
| BZ# 157 | 1.000 | 0.9132 | 91 | 50-150 |
| BZ# 180 | 1.000 | 0.8291 | 83 | 50-150 |
| BZ# 170 | 1.000 | 0.8657 | 87 | 50-150 |
| BZ# 169 | 1.000 | 1.007 | 101 | 50-150 |
| BZ# 189 | 1.000 | 0.9442 | 94 | 50-150 |
| BZ# 195 | 1.000 | 0.8604 | 86 | 50-150 |
| BZ# 206 | 1.000 | 0.7984 | 80 | 50-150 |
| BZ# 209 | 1.000 | 0.8214 | 82 | 50-150 |

| Surrogate | %REC | Limits |
|---|---|---|
| TCMX | 71 | 37-140 |
| BZ# 205 | 91 | 37-140 |

#= CCV drift outside limits; average CCV drift within limits per method requirements



11.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

## Polychlorinated Biphenyl Congeners

| | | | |
|---|---|---|---|
| Lab #: | 181365 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8082 |
| Field ID: | MW2.1-081505 | Batch#: | 105026 |
| MSS Lab ID: | 181301-002 | Sampled: | 08/15/05 |
| Matrix: | Water | Received: | 08/17/05 |
| Units: | ug/L | Prepared: | 08/20/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/21/05 |

Type: MS
Lab ID: QC305829
Cleanup Method: EPA 3665A

| Analyte | MSS Result | Spiked | Result | %REC | Limits |
|---|---|---|---|---|---|
| BZ# 8 | <0.01196 | 0.9901 | 0.8919 | 90 | 50-150 |
| BZ# 18 | <0.02432 | 0.9901 | 0.9045 | 91 | 50-150 |
| BZ# 28 | <0.01952 | 0.9901 | 0.9746 | 98 | 50-150 |
| BZ# 52 | <0.01853 | 0.9901 | 0.8558 | 86 | 50-150 |
| BZ# 44 | <0.009652 | 0.9901 | 0.8922 | 90 | 50-150 |
| BZ# 66 | <0.009834 | 0.9901 | 0.9594 | 97 | 50-150 |
| BZ# 101 | <0.01287 | 0.9901 | 0.9272 | 94 | 50-150 |
| BZ# 81 | <0.01904 | 0.9901 | 1.098 | 111 | 50-150 |
| BZ# 77 | <0.01027 | 0.9901 | 1.120 # | 113 | 50-150 |
| BZ# 123 | <0.01108 | 0.9901 | 0.9543 | 96 | 50-150 |
| BZ# 118 | <0.01026 | 0.9901 | 0.9565 | 97 | 50-150 |
| BZ# 114 | <0.01010 | 0.9901 | 0.9350 | 94 | 50-150 |
| BZ# 153 | <0.01447 | 0.9901 | 0.9007 | 91 | 50-150 |
| BZ# 105 | <0.01160 | 0.9901 | 1.022 | 103 | 50-150 |
| BZ# 138 | <0.01062 | 0.9901 | 0.9583 | 97 | 50-150 |
| BZ# 187 | <0.009913 | 0.9901 | 0.8746 | 88 | 50-150 |
| BZ# 126 | <0.01229 | 0.9901 | 0.9364 | 95 | 50-150 |
| BZ# 128 | <0.01053 | 0.9901 | 0.9511 | 96 | 50-150 |
| BZ# 167 | <0.01005 | 0.9901 | 0.9566 | 97 | 50-150 |
| BZ# 156 | <0.01220 | 0.9901 | 0.9488 | 96 | 50-150 |
| BZ# 157 | <0.01061 | 0.9901 | 0.9656 | 98 | 50-150 |
| BZ# 180 | <0.01068 | 0.9901 | 0.8746 | 88 | 50-150 |
| BZ# 170 | <0.01442 | 0.9901 | 0.9143 | 92 | 50-150 |
| BZ# 169 | <0.01309 | 0.9901 | 1.067 | 108 | 50-150 |
| BZ# 189 | <0.01405 | 0.9901 | 0.9843 | 99 | 50-150 |
| BZ# 195 | <0.01261 | 0.9901 | 0.9074 | 92 | 50-150 |
| BZ# 206 | <0.01190 | 0.9901 | 0.8324 | 84 | 50-150 |
| BZ# 209 | <0.01531 | 0.9901 | 0.8574 | 87 | 50-150 |

| Surrogate | %REC | Limits |
|---|---|---|
| TCMX | 79 | 37-140 |
| BZ# 205 | 90 | 37-140 |

#= CCV drift outside limits; average CCV drift within limits per method requirements
RPD= Relative Percent Difference



12.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

## Polychlorinated Biphenyl Congeners

| | | | |
|---|---|---|---|
| Lab #: | 181365 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8082 |
| Field ID: | MW2.1-081505 | Batch#: | 105026 |
| MSS Lab ID: | 181301-002 | Sampled: | 08/15/05 |
| Matrix: | Water | Received: | 08/17/05 |
| Units: | ug/L | Prepared: | 08/20/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/21/05 |

Type: MSD
Lab ID: QC305830

Cleanup Method: EPA 3665A

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|
| BZ# 8 | 0.9615 | 0.8249 | 86 | 50-150 | 5 | 30 |
| BZ# 18 | 0.9615 | 0.8249 | 86 | 50-150 | 6 | 30 |
| BZ# 28 | 0.9615 | 0.8485 | 88 | 50-150 | 11 | 30 |
| BZ# 52 | 0.9615 | 0.7597 | 79 | 50-150 | 9 | 30 |
| BZ# 44 | 0.9615 | 0.7844 | 82 | 50-150 | 10 | 30 |
| BZ# 66 | 0.9615 | 0.8171 | 85 | 50-150 | 13 | 30 |
| BZ# 101 | 0.9615 | 0.8005 | 83 | 50-150 | 12 | 30 |
| BZ# 81 | 0.9615 | 0.8602 | 89 | 50-150 | 21 | 30 |
| BZ# 77 | 0.9615 | 0.9644 # | 100 | 50-150 | 12 | 30 |
| BZ# 123 | 0.9615 | 0.8011 | 83 | 50-150 | 15 | 30 |
| BZ# 118 | 0.9615 | 0.8046 | 84 | 50-150 | 14 | 30 |
| BZ# 114 | 0.9615 | 0.8170 | 85 | 50-150 | 11 | 30 |
| BZ# 153 | 0.9615 | 0.7669 | 80 | 50-150 | 13 | 30 |
| BZ# 105 | 0.9615 | 0.8470 | 88 | 50-150 | 16 | 30 |
| BZ# 138 | 0.9615 | 0.8042 | 84 | 50-150 | 15 | 30 |
| BZ# 187 | 0.9615 | 0.7413 | 77 | 50-150 | 14 | 30 |
| BZ# 126 | 0.9615 | 0.9107 | 95 | 50-150 | 0 | 30 |
| BZ# 128 | 0.9615 | 0.7900 | 82 | 50-150 | 16 | 30 |
| BZ# 167 | 0.9615 | 0.7926 | 82 | 50-150 | 16 | 30 |
| BZ# 156 | 0.9615 | 0.7886 | 82 | 50-150 | 16 | 30 |
| BZ# 157 | 0.9615 | 0.8258 | 86 | 50-150 | 13 | 30 |
| BZ# 180 | 0.9615 | 0.7674 | 80 | 50-150 | 10 | 30 |
| BZ# 170 | 0.9615 | 0.7554 | 79 | 50-150 | 16 | 30 |
| BZ# 169 | 0.9615 | 0.8655 | 90 | 50-150 | 18 | 30 |
| BZ# 189 | 0.9615 | 0.8095 | 84 | 50-150 | 17 | 30 |
| BZ# 195 | 0.9615 | 0.7401 | 77 | 50-150 | 17 | 30 |
| BZ# 206 | 0.9615 | 0.6809 | 71 | 50-150 | 17 | 30 |
| BZ# 209 | 0.9615 | 0.7016 | 73 | 50-150 | 17 | 30 |

| Surrogate | %REC | Limits |
|---|---|---|
| TCMX | 77 | 37-140 |
| BZ# 205 | 80 | 37-140 |

#= CCV drift outside limits; average CCV drift within limits per method requirements
RPD= Relative Percent Difference



12.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

## Polychlorinated Biphenyl Congeners

| | | | |
|---|---|---|---|
| Lab #: | 181365 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8082 |
| Type: | BLANK | Diln Fac: | 1.000 |
| Lab ID: | QC305945 | Batch#: | 105053 |
| Matrix: | Water | Prepared: | 08/22/05 |
| Units: | ug/L | Analyzed: | 08/23/05 |

Cleanup Method: EPA 3665A

| Analyte | Result | RL | MDL |
|---|---|---|---|
| BZ# 8 | ND | 0.050 | 0.012 |
| BZ# 18 | ND | 0.050 | 0.025 |
| BZ# 28 | ND | 0.050 | 0.020 |
| BZ# 52 | ND | 0.050 | 0.019 |
| BZ# 44 | ND | 0.050 | 0.010 |
| BZ# 66 | ND | 0.050 | 0.010 |
| BZ# 101 | ND | 0.050 | 0.013 |
| BZ# 81 | ND | 0.050 | 0.020 |
| BZ# 77 | ND | 0.050 | 0.011 |
| BZ# 123 | ND | 0.050 | 0.012 |
| BZ# 118 | ND | 0.050 | 0.011 |
| BZ# 114 | ND | 0.050 | 0.011 |
| BZ# 153 | ND | 0.050 | 0.015 |
| BZ# 105 | ND | 0.050 | 0.012 |
| BZ# 138 | ND | 0.050 | 0.011 |
| BZ# 187 | ND | 0.050 | 0.010 |
| BZ# 126 | ND | 0.050 | 0.013 |
| BZ# 128 | ND | 0.050 | 0.011 |
| BZ# 167 | ND | 0.050 | 0.010 |
| BZ# 156 | ND | 0.050 | 0.013 |
| BZ# 157 | ND | 0.050 | 0.011 |
| BZ# 180 | ND | 0.050 | 0.011 |
| BZ# 170 | ND | 0.050 | 0.015 |
| BZ# 169 | ND | 0.050 | 0.014 |
| BZ# 189 | ND | 0.050 | 0.015 |
| BZ# 195 | ND | 0.050 | 0.013 |
| BZ# 206 | ND | 0.050 | 0.012 |
| BZ# 209 | ND | 0.050 | 0.016 |

| Surrogate | %REC | Limits |
|---|---|---|
| TCMX | 32 * | 37-140 |
| BZ# 205 | 87 | 37-140 |

*= Value outside of QC limits; see narrative
ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



10.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

## Polychlorinated Biphenyl Congeners

| | | | |
|---|---|---|---|
| Lab #: | 181365 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8082 |
| Type: | LCS | Diln Fac: | 1.000 |
| Lab ID: | QC305946 | Batch#: | 105053 |
| Matrix: | Water | Prepared: | 08/22/05 |
| Units: | ug/L | Analyzed: | 08/23/05 |

Cleanup Method: EPA 3665A

| Analyte | Spiked | Result | %REC | Limits |
|---|---|---|---|---|
| BZ# 8 | 1.000 | 0.8793 | 88 | 50-150 |
| BZ# 18 | 1.000 | 0.8890 | 89 | 50-150 |
| BZ# 28 | 1.000 | 0.9558 | 96 | 50-150 |
| BZ# 52 | 1.000 | 0.8296 | 83 | 50-150 |
| BZ# 44 | 1.000 | 0.8619 | 86 | 50-150 |
| BZ# 66 | 1.000 | 0.9642 | 96 | 50-150 |
| BZ# 101 | 1.000 | 0.8963 | 90 | 50-150 |
| BZ# 81 | 1.000 | 1.028 | 103 | 50-150 |
| BZ# 77 | 1.000 | 1.168 # | 117 | 50-150 |
| BZ# 123 | 1.000 | 0.9354 | 94 | 50-150 |
| BZ# 118 | 1.000 | 0.9356 | 94 | 50-150 |
| BZ# 114 | 1.000 | 0.9539 | 95 | 50-150 |
| BZ# 153 | 1.000 | 0.8690 | 87 | 50-150 |
| BZ# 105 | 1.000 | 1.007 | 101 | 50-150 |
| BZ# 138 | 1.000 | 0.9177 | 92 | 50-150 |
| BZ# 187 | 1.000 | 0.8388 | 84 | 50-150 |
| BZ# 126 | 1.000 | 1.026 | 103 | 50-150 |
| BZ# 128 | 1.000 | 0.9257 | 93 | 50-150 |
| BZ# 167 | 1.000 | 0.9339 | 93 | 50-150 |
| BZ# 156 | 1.000 | 0.9371 | 94 | 50-150 |
| BZ# 157 | 1.000 | 0.9543 | 95 | 50-150 |
| BZ# 180 | 1.000 | 0.8479 | 85 | 50-150 |
| BZ# 170 | 1.000 | 0.8957 | 90 | 50-150 |
| BZ# 169 | 1.000 | 1.070 | 107 | 50-150 |
| BZ# 189 | 1.000 | 0.9934 | 99 | 50-150 |
| BZ# 195 | 1.000 | 0.8776 | 88 | 50-150 |
| BZ# 206 | 1.000 | 0.8241 | 82 | 50-150 |
| BZ# 209 | 1.000 | 0.8469 | 85 | 50-150 |

| Surrogate | %REC | Limits |
|---|---|---|
| TCMX | 41 | 37-140 |
| BZ# 205 | 92 | 37-140 |

#= CCV drift outside limits; average CCV drift within limits per method requirements



13.0

Curtis & Tompkins, Ltd.
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Batch QC Report

## Polychlorinated Biphenyl Congeners

| | | | |
|---|---|---|---|
| Lab #: | 181365 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8082 |
| Field ID: | MW5.2-081605 | Batch#: | 105053 |
| MSS Lab ID: | 181341-006 | Sampled: | 08/16/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Prepared: | 08/22/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/24/05 |

Type: MS
Lab ID: QC305947
Cleanup Method: EPA 3665A

| Analyte | MSS Result | Spiked | Result | %REC | Limits |
|---|---|---|---|---|---|
| BZ# 8 | <0.01196 | 0.9615 | 0.8380 | 87 | 50-150 |
| BZ# 18 | <0.02432 | 0.9615 | 0.8447 | 88 | 50-150 |
| BZ# 28 | <0.01952 | 0.9615 | 0.9042 | 94 | 50-150 |
| BZ# 52 | <0.01853 | 0.9615 | 0.7898 | 82 | 50-150 |
| BZ# 44 | <0.009652 | 0.9615 | 0.8267 | 86 | 50-150 |
| BZ# 66 | <0.009834 | 0.9615 | 0.9014 | 94 | 50-150 |
| BZ# 101 | <0.01287 | 0.9615 | 0.8485 | 88 | 50-150 |
| BZ# 81 | <0.01904 | 0.9615 | 0.9632 | 100 | 50-150 |
| BZ# 77 | <0.01027 | 0.9615 | 1.185 # | 123 | 50-150 |
| BZ# 123 | <0.01108 | 0.9615 | 0.8904 | 93 | 50-150 |
| BZ# 118 | <0.01026 | 0.9615 | 0.8924 | 93 | 50-150 |
| BZ# 114 | <0.01010 | 0.9615 | 0.9098 | 95 | 50-150 |
| BZ# 153 | <0.01447 | 0.9615 | 0.8231 | 86 | 50-150 |
| BZ# 105 | <0.01160 | 0.9615 | 0.9561 | 99 | 50-150 |
| BZ# 138 | <0.01062 | 0.9615 | 0.8578 | 89 | 50-150 |
| BZ# 187 | <0.009913 | 0.9615 | 0.7937 | 83 | 50-150 |
| BZ# 126 | <0.01229 | 0.9615 | 0.9861 | 103 | 50-150 |
| BZ# 128 | <0.01053 | 0.9615 | 0.8687 | 90 | 50-150 |
| BZ# 167 | <0.01005 | 0.9615 | 0.8779 | 91 | 50-150 |
| BZ# 156 | <0.01220 | 0.9615 | 0.8826 | 92 | 50-150 |
| BZ# 157 | <0.01061 | 0.9615 | 0.8977 | 93 | 50-150 |
| BZ# 180 | <0.01068 | 0.9615 | 0.7962 | 83 | 50-150 |
| BZ# 170 | <0.01442 | 0.9615 | 0.8386 | 87 | 50-150 |
| BZ# 169 | <0.01309 | 0.9615 | 1.006 | 105 | 50-150 |
| BZ# 189 | <0.01405 | 0.9615 | 0.9213 | 96 | 50-150 |
| BZ# 195 | <0.01261 | 0.9615 | 0.8331 | 87 | 50-150 |
| BZ# 206 | <0.01190 | 0.9615 | 0.7787 | 81 | 50-150 |
| BZ# 209 | <0.01531 | 0.9615 | 0.8038 | 84 | 50-150 |

| Surrogate | %REC | Limits |
|---|---|---|
| TCMX | 46 | 37-140 |
| BZ# 205 | 88 | 37-140 |

#= CCV drift outside limits; average CCV drift within limits per method requirements
RPD= Relative Percent Difference



14.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

## Polychlorinated Biphenyl Congeners

| | | | |
|---|---|---|---|
| Lab #: | 181365 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8082 |
| Field ID: | MW5.2-081605 | Batch#: | 105053 |
| MSS Lab ID: | 181341-006 | Sampled: | 08/16/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Prepared: | 08/22/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/24/05 |

Type: MSD
Lab ID: QC305948

Cleanup Method: EPA 3665A

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|
| BZ# 8 | 0.9709 | 0.8550 | 88 | 50-150 | 1 | 30 |
| BZ# 18 | 0.9709 | 0.8581 | 88 | 50-150 | 1 | 30 |
| BZ# 28 | 0.9709 | 0.9244 | 95 | 50-150 | 1 | 30 |
| BZ# 52 | 0.9709 | 0.8041 | 83 | 50-150 | 1 | 30 |
| BZ# 44 | 0.9709 | 0.8442 | 87 | 50-150 | 1 | 30 |
| BZ# 66 | 0.9709 | 0.9160 | 94 | 50-150 | 1 | 30 |
| BZ# 101 | 0.9709 | 0.8615 | 89 | 50-150 | 1 | 30 |
| BZ# 81 | 0.9709 | 1.001 | 103 | 50-150 | 3 | 30 |
| BZ# 77 | 0.9709 | 1.134 # | 117 | 50-150 | 5 | 30 |
| BZ# 123 | 0.9709 | 0.9014 | 93 | 50-150 | 0 | 30 |
| BZ# 118 | 0.9709 | 0.9024 | 93 | 50-150 | 0 | 30 |
| BZ# 114 | 0.9709 | 0.9216 | 95 | 50-150 | 0 | 30 |
| BZ# 153 | 0.9709 | 0.8331 | 86 | 50-150 | 0 | 30 |
| BZ# 105 | 0.9709 | 0.9703 | 100 | 50-150 | 1 | 30 |
| BZ# 138 | 0.9709 | 0.8662 | 89 | 50-150 | 0 | 30 |
| BZ# 187 | 0.9709 | 0.8001 | 82 | 50-150 | 0 | 30 |
| BZ# 126 | 0.9709 | 1.055 | 109 | 50-150 | 6 | 30 |
| BZ# 128 | 0.9709 | 0.8756 | 90 | 50-150 | 0 | 30 |
| BZ# 167 | 0.9709 | 0.8779 | 90 | 50-150 | 1 | 30 |
| BZ# 156 | 0.9709 | 0.8859 | 91 | 50-150 | 1 | 30 |
| BZ# 157 | 0.9709 | 0.8990 | 93 | 50-150 | 1 | 30 |
| BZ# 180 | 0.9709 | 0.7980 | 82 | 50-150 | 1 | 30 |
| BZ# 170 | 0.9709 | 0.8385 | 86 | 50-150 | 1 | 30 |
| BZ# 169 | 0.9709 | 0.9918 | 102 | 50-150 | 2 | 30 |
| BZ# 189 | 0.9709 | 0.9233 | 95 | 50-150 | 1 | 30 |
| BZ# 195 | 0.9709 | 0.8171 | 84 | 50-150 | 3 | 30 |
| BZ# 206 | 0.9709 | 0.7646 | 79 | 50-150 | 3 | 30 |
| BZ# 209 | 0.9709 | 0.7866 | 81 | 50-150 | 3 | 30 |

| Surrogate | %REC | Limits |
|---|---|---|
| TCMX | 48 | 37-140 |
| BZ# 205 | 88 | 37-140 |

#= CCV drift outside limits; average CCV drift within limits per method requirements
RPD= Relative Percent Difference



14.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Polynuclear Aromatics by HPLC

| | | | |
|---|---|---|---|
| Lab #: | 181365 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8310 |
| Field ID: | MW10.1-081805 | Batch#: | 105025 |
| Lab ID: | 181365-002 | Sampled: | 08/18/05 |
| Matrix: | Water | Received: | 08/19/05 |
| Units: | ug/L | Prepared: | 08/20/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/23/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Naphthalene | ND | 0.95 | 0.07 |
| Acenaphthylene | ND | 1.9 | 0.09 |
| Acenaphthene | ND | 0.95 | 0.06 |
| Fluorene | ND | 0.19 | 0.01 |
| Phenanthrene | ND | 0.10 | 0.008 |
| Anthracene | ND | 0.10 | 0.008 |
| Fluoranthene | ND | 0.19 | 0.01 |
| Pyrene | ND | 0.10 | 0.007 |
| Benzo(a)anthracene | ND | 0.10 | 0.005 |
| Chrysene | ND | 0.10 | 0.006 |
| Benzo(b)fluoranthene | ND | 0.19 | 0.009 |
| Benzo(k)fluoranthene | ND | 0.10 | 0.005 |
| Benzo(a)pyrene | ND | 0.10 | 0.01 |
| Dibenz(a,h)anthracene | ND | 0.19 | 0.008 |
| Benzo(g,h,i)perylene | ND | 0.19 | 0.009 |
| Indeno(1,2,3-cd)pyrene | ND | 0.10 | 0.006 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1-Methylnaphthalene (UV) | 80 | 58-132 |
| 1-Methylnaphthalene (F) | 87 | 56-135 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



23.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Polynuclear Aromatics by HPLC

| | | | |
|---|---|---|---|
| Lab #: | 181365 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8310 |
| Field ID: | MW10.2-081805 | Batch#: | 105025 |
| Lab ID: | 181365-003 | Sampled: | 08/18/05 |
| Matrix: | Water | Received: | 08/19/05 |
| Units: | ug/L | Prepared: | 08/20/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/23/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Naphthalene | ND | 0.96 | 0.07 |
| Acenaphthylene | ND | 1.9 | 0.09 |
| Acenaphthene | ND | 0.96 | 0.06 |
| Fluorene | ND | 0.19 | 0.01 |
| Phenanthrene | ND | 0.10 | 0.009 |
| Anthracene | ND | 0.10 | 0.008 |
| Fluoranthene | ND | 0.19 | 0.01 |
| Pyrene | ND | 0.10 | 0.007 |
| Benzo(a)anthracene | ND | 0.10 | 0.005 |
| Chrysene | ND | 0.10 | 0.006 |
| Benzo(b)fluoranthene | ND | 0.19 | 0.009 |
| Benzo(k)fluoranthene | ND | 0.10 | 0.005 |
| Benzo(a)pyrene | ND | 0.10 | 0.01 |
| Dibenz(a,h)anthracene | ND | 0.19 | 0.009 |
| Benzo(g,h,i)perylene | ND | 0.19 | 0.01 |
| Indeno(1,2,3-cd)pyrene | ND | 0.10 | 0.006 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1-Methylnaphthalene (UV) | 68 | 58-132 |
| 1-Methylnaphthalene (F) | 74 | 56-135 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



24.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Polynuclear Aromatics by HPLC

| | | | |
|---|---|---|---|
| Lab #: | 181365 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8310 |
| Field ID: | MWDUP3081805 | Batch#: | 105025 |
| Lab ID: | 181365-004 | Sampled: | 08/18/05 |
| Matrix: | Water | Received: | 08/19/05 |
| Units: | ug/L | Prepared: | 08/20/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/23/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Naphthalene | ND | 0.98 | 0.07 |
| Acenaphthylene | ND | 2.0 | 0.09 |
| Acenaphthene | ND | 0.98 | 0.06 |
| Fluorene | ND | 0.20 | 0.02 |
| Phenanthrene | ND | 0.10 | 0.009 |
| Anthracene | ND | 0.10 | 0.008 |
| Fluoranthene | ND | 0.20 | 0.02 |
| Pyrene | ND | 0.10 | 0.007 |
| Benzo(a)anthracene | ND | 0.10 | 0.005 |
| Chrysene | ND | 0.10 | 0.007 |
| Benzo(b)fluoranthene | ND | 0.20 | 0.009 |
| Benzo(k)fluoranthene | ND | 0.10 | 0.005 |
| Benzo(a)pyrene | ND | 0.10 | 0.01 |
| Dibenz(a,h)anthracene | ND | 0.20 | 0.009 |
| Benzo(g,h,i)perylene | ND | 0.20 | 0.01 |
| Indeno(1,2,3-cd)pyrene | ND | 0.10 | 0.006 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1-Methylnaphthalene (UV) | 72 | 58-132 |
| 1-Methylnaphthalene (F) | 79 | 56-135 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



25.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

# Polynuclear Aromatics by HPLC

| | | | |
|---|---|---|---|
| Lab #: | 181365 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8310 |
| Field ID: | SP3.1081905 | Batch#: | 105052 |
| Lab ID: | 181365-005 | Sampled: | 08/19/05 |
| Matrix: | Water | Received: | 08/19/05 |
| Units: | ug/L | Prepared: | 08/22/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/24/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Naphthalene | ND | 0.96 | 0.07 |
| Acenaphthylene | ND | 1.9 | 0.09 |
| Acenaphthene | ND | 0.96 | 0.06 |
| Fluorene | ND | 0.19 | 0.01 |
| Phenanthrene | ND | 0.10 | 0.009 |
| Anthracene | ND | 0.10 | 0.008 |
| Fluoranthene | ND | 0.19 | 0.01 |
| Pyrene | ND | 0.10 | 0.007 |
| Benzo(a)anthracene | ND | 0.10 | 0.005 |
| Chrysene | ND | 0.10 | 0.006 |
| Benzo(b)fluoranthene | ND | 0.19 | 0.009 |
| Benzo(k)fluoranthene | ND | 0.10 | 0.005 |
| Benzo(a)pyrene | ND | 0.10 | 0.008 |
| Dibenz(a,h)anthracene | ND | 0.19 | 0.009 |
| Benzo(g,h,i)perylene | ND | 0.19 | 0.01 |
| Indeno(1,2,3-cd)pyrene | ND | 0.10 | 0.006 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1-Methylnaphthalene (UV) | 90 | 58-132 |
| 1-Methylnaphthalene (F) | 98 | 56-135 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



26.0

Curtis & Tompkins, Ltd.
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Batch QC Report

## Polynuclear Aromatics by HPLC

| | | | |
|---|---|---|---|
| Lab #: | 181365 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8310 |
| Type: | BLANK | Diln Fac: | 1.000 |
| Lab ID: | QC305823 | Batch#: | 105025 |
| Matrix: | Water | Prepared: | 08/20/05 |
| Units: | ug/L | Analyzed: | 08/22/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Naphthalene | ND | 1.0 | 0.07 |
| Acenaphthylene | ND | 2.0 | 0.09 |
| Acenaphthene | ND | 1.0 | 0.06 |
| Fluorene | ND | 0.20 | 0.02 |
| Phenanthrene | ND | 0.10 | 0.009 |
| Anthracene | ND | 0.10 | 0.008 |
| Fluoranthene | ND | 0.20 | 0.02 |
| Pyrene | ND | 0.10 | 0.007 |
| Benzo(a)anthracene | ND | 0.10 | 0.005 |
| Chrysene | ND | 0.10 | 0.007 |
| Benzo(b)fluoranthene | ND | 0.20 | 0.01 |
| Benzo(k)fluoranthene | ND | 0.10 | 0.005 |
| Benzo(a)pyrene | ND | 0.10 | 0.008 |
| Dibenz(a,h)anthracene | ND | 0.20 | 0.009 |
| Benzo(g,h,i)perylene | ND | 0.20 | 0.01 |
| Indeno(1,2,3-cd)pyrene | ND | 0.10 | 0.006 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1-Methylnaphthalene (UV) | 86 | 58-132 |
| 1-Methylnaphthalene (F) | 97 | 56-135 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



27.0

Curtis & Tompkins, Ltd.
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Batch QC Report

## Polynuclear Aromatics by HPLC

| | | | |
|---|---|---|---|
| Lab #: | 181365 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8310 |
| Type: | LCS | Diln Fac: | 1.000 |
| Lab ID: | QC305824 | Batch#: | 105025 |
| Matrix: | Water | Prepared: | 08/20/05 |
| Units: | ug/L | Analyzed: | 08/22/05 |

| Analyte | Spiked | Result | %REC | Limits |
|---|---|---|---|---|
| Naphthalene | 10.00 | 8.453 | 85 | 67-120 |
| Acenaphthylene | 20.00 | 16.65 | 83 | 70-120 |
| Acenaphthene | 10.00 | 8.799 | 88 | 66-120 |
| Fluorene | 2.000 | 1.721 | 86 | 69-120 |
| Phenanthrene | 1.000 | 0.9262 | 93 | 63-120 |
| Anthracene | 1.000 | 0.9522 | 95 | 63-120 |
| Benzo(k)fluoranthene | 1.000 | 0.9185 | 92 | 65-124 |
| Indeno(1,2,3-cd)pyrene | 1.000 | 0.9267 | 93 | 62-123 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1-Methylnaphthalene (UV) | 80 | 58-132 |
| 1-Methylnaphthalene (F) | 90 | 56-135 |



29.0

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Batch QC Report

## Polynuclear Aromatics by HPLC

| | | | |
|---|---|---|---|
| Lab #: | 181365 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8310 |
| Field ID: | MW2.1-081505 | Batch#: | 105025 |
| MSS Lab ID: | 181301-002 | Sampled: | 08/15/05 |
| Matrix: | Water | Received: | 08/17/05 |
| Units: | ug/L | Prepared: | 08/20/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/22/05 |

Type: MS Lab ID: QC305825

| Analyte | MSS Result | Spiked | Result | %REC | Limits |
|---|---|---|---|---|---|
| Naphthalene | <0.06891 | 9.524 | 8.023 | 84 | 42-122 |
| Acenaphthylene | <0.09010 | 19.05 | 15.65 | 82 | 51-126 |
| Acenaphthene | <0.06131 | 9.524 | 8.180 | 86 | 41-156 |
| Fluorene | <0.01469 | 1.905 | 1.608 | 84 | 39-150 |
| Phenanthrene | <0.008430 | 0.9524 | 0.8732 | 92 | 25-205 |
| Anthracene | <0.007771 | 0.9524 | 0.8998 | 94 | 56-151 |
| Benzo(k)fluoranthene | <0.004910 | 0.9524 | 0.8552 | 90 | 18-146 |
| Indeno(1,2,3-cd)pyrene | <0.006091 | 0.9524 | 0.8611 | 90 | 55-159 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1-Methylnaphthalene (UV) | 81 | 58-132 |
| 1-Methylnaphthalene (F) | 91 | 56-135 |

Type: MSD Lab ID: QC305826

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|
| Naphthalene | 9.524 | 7.427 | 78 | 42-122 | 8 | 36 |
| Acenaphthylene | 19.05 | 14.70 | 77 | 51-126 | 6 | 34 |
| Acenaphthene | 9.524 | 7.703 | 81 | 41-156 | 6 | 38 |
| Fluorene | 1.905 | 1.547 | 81 | 39-150 | 4 | 35 |
| Phenanthrene | 0.9524 | 0.8536 | 90 | 25-205 | 2 | 33 |
| Anthracene | 0.9524 | 0.8474 | 89 | 56-151 | 6 | 34 |
| Benzo(k)fluoranthene | 0.9524 | 0.8459 | 89 | 18-146 | 1 | 34 |
| Indeno(1,2,3-cd)pyrene | 0.9524 | 0.8545 | 90 | 55-159 | 1 | 33 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1-Methylnaphthalene (UV) | 75 | 58-132 |
| 1-Methylnaphthalene (F) | 85 | 56-135 |

RPD= Relative Percent Difference



30.0

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Analytical Laboratories, Since 1878

Batch QC Report

## Polynuclear Aromatics by HPLC

| | | | |
|---|---|---|---|
| Lab #: | 181365 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8310 |
| Type: | BLANK | Diln Fac: | 1.000 |
| Lab ID: | QC305941 | Batch#: | 105052 |
| Matrix: | Water | Prepared: | 08/22/05 |
| Units: | ug/L | Analyzed: | 08/23/05 |

| Analyte | Result | RL | MDL |
|---|---|---|---|
| Naphthalene | ND | 1.0 | 0.07 |
| Acenaphthylene | ND | 2.0 | 0.09 |
| Acenaphthene | ND | 1.0 | 0.06 |
| Fluorene | ND | 0.20 | 0.02 |
| Phenanthrene | ND | 0.10 | 0.009 |
| Anthracene | ND | 0.10 | 0.008 |
| Fluoranthene | ND | 0.20 | 0.02 |
| Pyrene | ND | 0.10 | 0.007 |
| Benzo(a)anthracene | ND | 0.10 | 0.005 |
| Chrysene | ND | 0.10 | 0.007 |
| Benzo(b)fluoranthene | ND | 0.20 | 0.01 |
| Benzo(k)fluoranthene | ND | 0.10 | 0.005 |
| Benzo(a)pyrene | ND | 0.10 | 0.008 |
| Dibenz(a,h)anthracene | ND | 0.20 | 0.009 |
| Benzo(g,h,i)perylene | ND | 0.20 | 0.01 |
| Indeno(1,2,3-cd)pyrene | ND | 0.10 | 0.006 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1-Methylnaphthalene (UV) | 83 | 58-132 |
| 1-Methylnaphthalene (F) | 92 | 56-135 |

ND= Not Detected
RL= Reporting Limit
MDL= Method Detection Limit



28.0

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Batch QC Report

## Polynuclear Aromatics by HPLC

| | | | |
|---|---|---|---|
| Lab #: | 181365 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8310 |
| Type: | LCS | Diln Fac: | 1.000 |
| Lab ID: | QC305942 | Batch#: | 105052 |
| Matrix: | Water | Prepared: | 08/22/05 |
| Units: | ug/L | Analyzed: | 08/23/05 |

| Analyte | Spiked | Result | %REC | Limits |
|---|---|---|---|---|
| Naphthalene | 10.00 | 9.742 | 97 | 67-120 |
| Acenaphthylene | 20.00 | 19.77 | 99 | 70-120 |
| Acenaphthene | 10.00 | 10.21 | 102 | 66-120 |
| Fluorene | 2.000 | 2.051 | 103 | 69-120 |
| Phenanthrene | 1.000 | 1.085 | 109 | 63-120 |
| Anthracene | 1.000 | 1.148 | 115 | 63-120 |
| Benzo(k)fluoranthene | 1.000 | 1.122 | 112 | 65-124 |
| Indeno(1,2,3-cd)pyrene | 1.000 | 1.120 | 112 | 62-123 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1-Methylnaphthalene (UV) | 94 | 58-132 |
| 1-Methylnaphthalene (F) | 101 | 56-135 |



31.0

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Batch QC Report

## Polynuclear Aromatics by HPLC

| | | | |
|---|---|---|---|
| Lab #: | 181365 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | EPA 3520C |
| Project#: | 16017.01 | Analysis: | EPA 8310 |
| Field ID: | MW5.2-081605 | Batch#: | 105052 |
| MSS Lab ID: | 181341-006 | Sampled: | 08/16/05 |
| Matrix: | Water | Received: | 08/18/05 |
| Units: | ug/L | Prepared: | 08/22/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/23/05 |

Type: MS Lab ID: QC305943

| Analyte | MSS Result | Spiked | Result | %REC | Limits |
|---|---|---|---|---|---|
| Naphthalene | <0.07025 | 9.709 | 9.423 | 97 | 42-122 |
| Acenaphthylene | <0.09185 | 19.42 | 18.71 | 96 | 51-126 |
| Acenaphthene | <0.06250 | 9.709 | 9.799 | 101 | 41-156 |
| Fluorene | <0.01498 | 1.942 | 1.900 | 98 | 39-150 |
| Phenanthrene | <0.008593 | 0.9709 | 0.9939 | 102 | 25-205 |
| Anthracene | <0.007922 | 0.9709 | 1.065 | 110 | 56-151 |
| Benzo(k)fluoranthene | <0.005005 | 0.9709 | 1.020 | 105 | 18-146 |
| Indeno(1,2,3-cd)pyrene | <0.006209 | 0.9709 | 1.019 | 105 | 55-159 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1-Methylnaphthalene (UV) | 91 | 58-132 |
| 1-Methylnaphthalene (F) | 99 | 56-135 |

Type: MSD Lab ID: QC305944

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|
| Naphthalene | 9.615 | 9.657 | 100 | 42-122 | 3 | 36 |
| Acenaphthylene | 19.23 | 19.62 | 102 | 51-126 | 6 | 34 |
| Acenaphthene | 9.615 | 10.14 | 105 | 41-156 | 4 | 38 |
| Fluorene | 1.923 | 2.005 | 104 | 39-150 | 6 | 35 |
| Phenanthrene | 0.9615 | 1.072 | 111 | 25-205 | 8 | 33 |
| Anthracene | 0.9615 | 1.129 | 117 | 56-151 | 7 | 34 |
| Benzo(k)fluoranthene | 0.9615 | 1.070 | 111 | 18-146 | 6 | 34 |
| Indeno(1,2,3-cd)pyrene | 0.9615 | 1.075 | 112 | 55-159 | 6 | 33 |

| Surrogate | %REC | Limits |
|---|---|---|
| 1-Methylnaphthalene (UV) | 96 | 58-132 |
| 1-Methylnaphthalene (F) | 105 | 56-135 |

RPD= Relative Percent Difference



32.0

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# Dissolved California Title 26 Metals

| | | | |
|---|---|---|---|
| Lab #: 181365 | | Project#: | 16017.01 |
| Client: Acton Mickelson Environmental | | Location: | Former GA-Pacific Sawmill |
| Field ID: | MW10.1-081805 | Diln Fac: | 1.000 |
| Lab ID: | 181365-002 | Sampled: | 08/18/05 |
| Matrix: | Filtrate | Received: | 08/19/05 |
| Units: | ug/L | | |

| Analyte | Result | RL | Batch# | Prepared | Analyzed | Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Antimony | ND | 1.0 | 105240 | 08/29/05 | 08/30/05 | 200.8 | EPA 6020 |
| Arsenic | ND | 1.0 | 105240 | 08/29/05 | 08/30/05 | 200.8 | EPA 6020 |
| Barium | 38 | 1.0 | 105240 | 08/29/05 | 08/30/05 | 200.8 | EPA 6020 |
| Beryllium | ND | 1.0 | 105240 | 08/29/05 | 08/30/05 | 200.8 | EPA 6020 |
| Cadmium | ND | 1.0 | 105240 | 08/29/05 | 08/30/05 | 200.8 | EPA 6020 |
| Chromium | ND | 1.0 | 105240 | 08/29/05 | 08/30/05 | 200.8 | EPA 6020 |
| Cobalt | ND | 1.0 | 105240 | 08/29/05 | 08/30/05 | 200.8 | EPA 6020 |
| Copper | ND | 1.0 | 105240 | 08/29/05 | 08/30/05 | 200.8 | EPA 6020 |
| Lead | ND | 1.0 | 105240 | 08/29/05 | 08/30/05 | 200.8 | EPA 6020 |
| Mercury | ND | 0.20 | 105036 | 08/22/05 | 08/22/05 | METHOD | EPA 7470A |
| Molybdenum | ND | 1.0 | 105240 | 08/29/05 | 08/30/05 | 200.8 | EPA 6020 |
| Nickel | ND | 1.0 | 105240 | 08/29/05 | 08/30/05 | 200.8 | EPA 6020 |
| Selenium | ND | 1.0 | 105240 | 08/29/05 | 08/30/05 | 200.8 | EPA 6020 |
| Silver | ND | 1.0 | 105240 | 08/29/05 | 08/30/05 | 200.8 | EPA 6020 |
| Thallium | ND | 1.0 | 105240 | 08/29/05 | 08/30/05 | 200.8 | EPA 6020 |
| Vanadium | ND | 1.0 | 105240 | 08/29/05 | 08/30/05 | 200.8 | EPA 6020 |
| Zinc | 11 | 1.0 | 105240 | 08/29/05 | 08/30/05 | 200.8 | EPA 6020 |

ND= Not Detected
RL= Reporting Limit



40.0

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# Dissolved California Title 26 Metals

| | | | |
|---|---|---|---|
| Lab #: | 181365 | Project#: | 16017.01 |
| Client: | Acton Mickelson Environmental | Location: | Former GA-Pacific Sawmill |
| Field ID: | MW10.2-081805 | Diln Fac: | 1.000 |
| Lab ID: | 181365-003 | Sampled: | 08/18/05 |
| Matrix: | Filtrate | Received: | 08/19/05 |
| Units: | ug/L | | |

| Analyte | Result | RL | Batch# | Prepared | Analyzed | Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Antimony | ND | 1.0 | 105240 | 08/29/05 | 08/30/05 | 200.8 | EPA 6020 |
| Arsenic | ND | 1.0 | 105240 | 08/29/05 | 08/30/05 | 200.8 | EPA 6020 |
| Barium | 45 | 1.0 | 105240 | 08/29/05 | 08/30/05 | 200.8 | EPA 6020 |
| Beryllium | ND | 1.0 | 105240 | 08/29/05 | 08/30/05 | 200.8 | EPA 6020 |
| Cadmium | ND | 1.0 | 105240 | 08/29/05 | 08/30/05 | 200.8 | EPA 6020 |
| Chromium | ND | 1.0 | 105240 | 08/29/05 | 08/30/05 | 200.8 | EPA 6020 |
| Cobalt | ND | 1.0 | 105240 | 08/29/05 | 08/30/05 | 200.8 | EPA 6020 |
| Copper | 1.3 | 1.0 | 105240 | 08/29/05 | 08/30/05 | 200.8 | EPA 6020 |
| Lead | ND | 1.0 | 105240 | 08/29/05 | 08/30/05 | 200.8 | EPA 6020 |
| Mercury | ND | 0.20 | 105036 | 08/22/05 | 08/22/05 | METHOD | EPA 7470A |
| Molybdenum | ND | 1.0 | 105240 | 08/29/05 | 08/30/05 | 200.8 | EPA 6020 |
| Nickel | ND | 1.0 | 105240 | 08/29/05 | 08/30/05 | 200.8 | EPA 6020 |
| Selenium | ND | 1.0 | 105240 | 08/29/05 | 08/30/05 | 200.8 | EPA 6020 |
| Silver | ND | 1.0 | 105240 | 08/29/05 | 08/30/05 | 200.8 | EPA 6020 |
| Thallium | ND | 1.0 | 105240 | 08/29/05 | 08/30/05 | 200.8 | EPA 6020 |
| Vanadium | ND | 1.0 | 105240 | 08/29/05 | 08/30/05 | 200.8 | EPA 6020 |
| Zinc | 10 | 1.0 | 105240 | 08/29/05 | 08/30/05 | 200.8 | EPA 6020 |

ND= Not Detected
RL= Reporting Limit



41.0

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# Dissolved California Title 26 Metals

| | | | |
|---|---|---|---|
| Lab #: | 181365 | Project#: | 16017.01 |
| Client: | Acton Mickelson Environmental | Location: | Former GA-Pacific Sawmill |
| Field ID: | MWDUP3081805 | Diln Fac: | 1.000 |
| Lab ID: | 181365-004 | Sampled: | 08/18/05 |
| Matrix: | Filtrate | Received: | 08/19/05 |
| Units: | ug/L | | |

| Analyte | Result | RL | Batch# | Prepared | Analyzed | Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Antimony | ND | 1.0 | 105240 | 08/29/05 | 08/30/05 | 200.8 | EPA 6020 |
| Arsenic | ND | 1.0 | 105240 | 08/29/05 | 08/30/05 | 200.8 | EPA 6020 |
| Barium | 37 | 1.0 | 105240 | 08/29/05 | 08/30/05 | 200.8 | EPA 6020 |
| Beryllium | ND | 1.0 | 105240 | 08/29/05 | 08/30/05 | 200.8 | EPA 6020 |
| Cadmium | ND | 1.0 | 105240 | 08/29/05 | 08/30/05 | 200.8 | EPA 6020 |
| Chromium | ND | 1.0 | 105240 | 08/29/05 | 08/30/05 | 200.8 | EPA 6020 |
| Cobalt | ND | 1.0 | 105240 | 08/29/05 | 08/30/05 | 200.8 | EPA 6020 |
| Copper | 1.9 | 1.0 | 105240 | 08/29/05 | 08/30/05 | 200.8 | EPA 6020 |
| Lead | ND | 1.0 | 105240 | 08/29/05 | 08/30/05 | 200.8 | EPA 6020 |
| Mercury | ND | 0.20 | 105036 | 08/22/05 | 08/22/05 | METHOD | EPA 7470A |
| Molybdenum | ND | 1.0 | 105240 | 08/29/05 | 08/30/05 | 200.8 | EPA 6020 |
| Nickel | ND | 1.0 | 105240 | 08/29/05 | 08/30/05 | 200.8 | EPA 6020 |
| Selenium | ND | 1.0 | 105240 | 08/29/05 | 08/30/05 | 200.8 | EPA 6020 |
| Silver | ND | 1.0 | 105240 | 08/29/05 | 08/30/05 | 200.8 | EPA 6020 |
| Thallium | ND | 1.0 | 105240 | 08/29/05 | 08/30/05 | 200.8 | EPA 6020 |
| Vanadium | ND | 1.0 | 105240 | 08/29/05 | 08/30/05 | 200.8 | EPA 6020 |
| Zinc | 20 | 1.0 | 105240 | 08/29/05 | 08/30/05 | 200.8 | EPA 6020 |

ND= Not Detected
RL= Reporting Limit



42.0

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# Dissolved California Title 26 Metals

| | | | |
|---|---|---|---|
| Lab #: | 181365 | Project#: | 16017.01 |
| Client: | Acton Mickelson Environmental | Location: | Former GA-Pacific Sawmill |
| Field ID: | SP3.1081905 | Diln Fac: | 1.000 |
| Lab ID: | 181365-005 | Sampled: | 08/19/05 |
| Matrix: | Filtrate | Received: | 08/19/05 |
| Units: | ug/L | | |

| Analyte | Result | RL | Batch# | Prepared | Analyzed | Prep | Analysis |
|---|---|---|---|---|---|---|---|
| Antimony | ND | 1.0 | 105240 | 08/29/05 | 08/30/05 | 200.8 | EPA 6020 |
| Arsenic | ND | 1.0 | 105240 | 08/29/05 | 08/30/05 | 200.8 | EPA 6020 |
| Barium | 27 | 1.0 | 105240 | 08/29/05 | 08/30/05 | 200.8 | EPA 6020 |
| Beryllium | ND | 1.0 | 105240 | 08/29/05 | 08/30/05 | 200.8 | EPA 6020 |
| Cadmium | ND | 1.0 | 105240 | 08/29/05 | 08/30/05 | 200.8 | EPA 6020 |
| Chromium | ND | 1.0 | 105240 | 08/29/05 | 08/30/05 | 200.8 | EPA 6020 |
| Cobalt | ND | 1.0 | 105240 | 08/29/05 | 08/30/05 | 200.8 | EPA 6020 |
| Copper | ND | 1.0 | 105240 | 08/29/05 | 08/30/05 | 200.8 | EPA 6020 |
| Lead | ND | 1.0 | 105240 | 08/29/05 | 08/30/05 | 200.8 | EPA 6020 |
| Mercury | ND | 0.20 | 105036 | 08/22/05 | 08/22/05 | METHOD | EPA 7470A |
| Molybdenum | ND | 1.0 | 105240 | 08/29/05 | 08/30/05 | 200.8 | EPA 6020 |
| Nickel | ND | 1.0 | 105240 | 08/29/05 | 08/30/05 | 200.8 | EPA 6020 |
| Selenium | ND | 1.0 | 105240 | 08/29/05 | 08/30/05 | 200.8 | EPA 6020 |
| Silver | ND | 1.0 | 105240 | 08/29/05 | 08/30/05 | 200.8 | EPA 6020 |
| Thallium | ND | 1.0 | 105240 | 08/29/05 | 08/30/05 | 200.8 | EPA 6020 |
| Vanadium | ND | 1.0 | 105240 | 08/29/05 | 08/30/05 | 200.8 | EPA 6020 |
| Zinc | 8.3 | 1.0 | 105240 | 08/29/05 | 08/30/05 | 200.8 | EPA 6020 |

ND= Not Detected
RL= Reporting Limit



43.0

Curtis & Tompkins, Ltd.
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Batch QC Report

## Dissolved California Title 26 Metals

| | | | |
|---|---|---|---|
| Lab #: | 181365 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | METHOD |
| Project#: | 16017.01 | Analysis: | EPA 7470A |
| Analyte: | Mercury | Diln Fac: | 1.000 |
| Type: | BLANK | Batch#: | 105036 |
| Lab ID: | QC305868 | Prepared: | 08/22/05 |
| Matrix: | Filtrate | Analyzed: | 08/22/05 |
| Units: | ug/L | | |

| Result | RL |
|---|---|
| ND | 0.20 |

ND= Not Detected
RL= Reporting Limit



44.0

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Batch QC Report

## Dissolved California Title 26 Metals

| | | | |
|---|---|---|---|
| Lab #: | 181365 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | METHOD |
| Project#: | 16017.01 | Analysis: | EPA 7470A |
| Analyte: | Mercury | Batch#: | 105036 |
| Matrix: | Filtrate | Prepared: | 08/22/05 |
| Units: | ug/L | Analyzed: | 08/22/05 |
| Diln Fac: | 1.000 | | |

| Type | Lab ID | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|---|
| BS | QC305869 | 5.000 | 4.850 | 97 | 80-120 | | |
| BSD | QC305870 | 5.000 | 4.600 | 92 | 80-120 | 5 | 20 |

RPD= Relative Percent Difference



46.0

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Batch QC Report

## Dissolved California Title 26 Metals

| | | | |
|---|---|---|---|
| Lab #: | 181365 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | METHOD |
| Project#: | 16017.01 | Analysis: | EPA 7470A |
| Analyte: | Mercury | Batch#: | 105036 |
| Field ID: | MW2.1-081505 | Sampled: | 08/15/05 |
| MSS Lab ID: | 181301-002 | Received: | 08/17/05 |
| Matrix: | Filtrate | Prepared: | 08/22/05 |
| Units: | ug/L | Analyzed: | 08/22/05 |
| Diln Fac: | 1.000 | | |

| Type | Lab ID | MSS Result | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|---|---|
| MS | QC305871 | <0.07957 | 5.000 | 4.740 | 95 | 80-120 | | |
| MSD | QC305872 | | 5.000 | 4.580 | 92 | 80-120 | 3 | 20 |

RPD= Relative Percent Difference



47.0

Curtis & Tompkins, Ltd.
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Batch QC Report

## Dissolved California Title 26 Metals

| | | | |
|---|---|---|---|
| Lab #: | 181365 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | 200.8 |
| Project#: | 16017.01 | Analysis: | EPA 6020 |
| Type: | BLANK | Diln Fac: | 1.000 |
| Lab ID: | QC306723 | Batch#: | 105240 |
| Matrix: | Filtrate | Prepared: | 08/29/05 |
| Units: | ug/L | Analyzed: | 08/30/05 |

| Analyte | Result | RL |
|---|---|---|
| Antimony | ND | 1.0 |
| Arsenic | ND | 1.0 |
| Barium | ND | 1.0 |
| Beryllium | ND | 1.0 |
| Cadmium | ND | 1.0 |
| Chromium | ND | 1.0 |
| Cobalt | ND | 1.0 |
| Copper | ND | 1.0 |
| Lead | ND | 1.0 |
| Molybdenum | ND | 1.0 |
| Nickel | ND | 1.0 |
| Selenium | ND | 1.0 |
| Silver | ND | 1.0 |
| Thallium | ND | 1.0 |
| Vanadium | ND | 1.0 |
| Zinc | ND | 1.0 |

ND= Not Detected
RL= Reporting Limit



45.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

## Dissolved California Title 26 Metals

| | | | |
|---|---|---|---|
| Lab #: | 181365 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | 200.8 |
| Project#: | 16017.01 | Analysis: | EPA 6020 |
| Matrix: | Filtrate | Batch#: | 105240 |
| Units: | ug/L | Prepared: | 08/29/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/30/05 |

Type: BS Lab ID: QC306724

| Analyte | Spiked | Result | %REC | Limits |
|---|---|---|---|---|
| Antimony | 100.0 | 102.4 | 102 | 80-120 |
| Arsenic | 100.0 | 98.03 | 98 | 80-120 |
| Barium | 100.0 | 100.0 | 100 | 80-120 |
| Beryllium | 100.0 | 99.66 | 100 | 80-120 |
| Cadmium | 100.0 | 99.01 | 99 | 80-120 |
| Chromium | 100.0 | 102.1 | 102 | 80-120 |
| Cobalt | 100.0 | 102.3 | 102 | 80-120 |
| Copper | 100.0 | 101.6 | 102 | 80-120 |
| Lead | 100.0 | 99.70 | 100 | 80-120 |
| Molybdenum | 100.0 | 99.81 | 100 | 80-120 |
| Nickel | 100.0 | 100.5 | 101 | 80-120 |
| Selenium | 100.0 | 89.69 | 90 | 80-120 |
| Silver | 100.0 | 105.8 | 106 | 80-120 |
| Thallium | 100.0 | 99.42 | 99 | 80-120 |
| Vanadium | 100.0 | 101.4 | 101 | 80-120 |
| Zinc | 100.0 | 99.53 | 100 | 80-120 |

Type: BSD Lab ID: QC306725

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|
| Antimony | 100.0 | 101.4 | 101 | 80-120 | 1 | 20 |
| Arsenic | 100.0 | 98.39 | 98 | 80-120 | 0 | 20 |
| Barium | 100.0 | 100.2 | 100 | 80-120 | 0 | 20 |
| Beryllium | 100.0 | 101.7 | 102 | 80-120 | 2 | 20 |
| Cadmium | 100.0 | 98.64 | 99 | 80-120 | 0 | 20 |
| Chromium | 100.0 | 103.5 | 104 | 80-120 | 1 | 20 |
| Cobalt | 100.0 | 103.7 | 104 | 80-120 | 1 | 20 |
| Copper | 100.0 | 102.1 | 102 | 80-120 | 0 | 20 |
| Lead | 100.0 | 99.79 | 100 | 80-120 | 0 | 20 |
| Molybdenum | 100.0 | 101.1 | 101 | 80-120 | 1 | 20 |
| Nickel | 100.0 | 103.2 | 103 | 80-120 | 3 | 20 |
| Selenium | 100.0 | 89.99 | 90 | 80-120 | 0 | 20 |
| Silver | 100.0 | 104.7 | 105 | 80-120 | 1 | 20 |
| Thallium | 100.0 | 101.3 | 101 | 80-120 | 2 | 20 |
| Vanadium | 100.0 | 102.7 | 103 | 80-120 | 1 | 20 |
| Zinc | 100.0 | 104.6 | 105 | 80-120 | 5 | 20 |

RPD= Relative Percent Difference



48.0

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Batch QC Report

## Dissolved California Title 26 Metals

| | | | |
|---|---|---|---|
| Lab #: | 181365 | Location: | Former GA-Pacific Sawmill |
| Client: | Acton Mickelson Environmental | Prep: | 200.8 |
| Project#: | 16017.01 | Analysis: | EPA 6020 |
| Field ID: | MW10.1-081805 | Batch#: | 105240 |
| MSS Lab ID: | 181365-002 | Sampled: | 08/18/05 |
| Matrix: | Filtrate | Received: | 08/19/05 |
| Units: | ug/L | Prepared: | 08/29/05 |
| Diln Fac: | 1.000 | Analyzed: | 08/30/05 |

Type: MS Lab ID: QC306726

| Analyte | MSS Result | Spiked | Result | %REC | Limits |
|---|---|---|---|---|---|
| Antimony | 0.2899 | 100.0 | 104.0 | 104 | 80-120 |
| Arsenic | <0.6516 | 100.0 | 102.6 | 103 | 80-120 |
| Barium | 37.69 | 100.0 | 142.2 | 105 | 77-125 |
| Beryllium | <0.05514 | 100.0 | 111.5 | 112 | 80-120 |
| Cadmium | <0.1409 | 100.0 | 94.87 | 95 | 78-120 |
| Chromium | 0.5369 | 100.0 | 109.9 | 109 | 80-120 |
| Cobalt | <0.03411 | 100.0 | 107.4 | 107 | 80-120 |
| Copper | 0.6726 | 100.0 | 104.1 | 103 | 80-120 |
| Lead | <0.2399 | 100.0 | 102.5 | 103 | 80-120 |
| Molybdenum | 0.5559 | 100.0 | 100.5 | 100 | 80-120 |
| Nickel | 0.4195 | 100.0 | 104.8 | 104 | 77-120 |
| Selenium | <0.3462 | 100.0 | 89.38 | 89 | 64-123 |
| Silver | <0.04084 | 100.0 | 98.91 | 99 | 71-120 |
| Thallium | <0.07277 | 100.0 | 104.4 | 104 | 62-120 |
| Vanadium | 0.4703 | 100.0 | 109.7 | 109 | 78-130 |
| Zinc | 11.37 | 100.0 | 100.1 | 89 | 64-129 |

Type: MSD Lab ID: QC306727

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|---|---|---|---|---|---|---|
| Antimony | 100.0 | 104.5 | 104 | 80-120 | 0 | 20 |
| Arsenic | 100.0 | 101.7 | 102 | 80-120 | 1 | 20 |
| Barium | 100.0 | 143.3 | 106 | 77-125 | 1 | 20 |
| Beryllium | 100.0 | 110.2 | 110 | 80-120 | 1 | 20 |
| Cadmium | 100.0 | 94.96 | 95 | 78-120 | 0 | 20 |
| Chromium | 100.0 | 109.2 | 109 | 80-120 | 1 | 20 |
| Cobalt | 100.0 | 105.7 | 106 | 80-120 | 2 | 20 |
| Copper | 100.0 | 103.2 | 103 | 80-120 | 1 | 20 |
| Lead | 100.0 | 101.8 | 102 | 80-120 | 1 | 20 |
| Molybdenum | 100.0 | 101.1 | 101 | 80-120 | 1 | 20 |
| Nickel | 100.0 | 105.2 | 105 | 77-120 | 0 | 20 |
| Selenium | 100.0 | 89.50 | 90 | 64-123 | 0 | 20 |
| Silver | 100.0 | 99.79 | 100 | 71-120 | 1 | 20 |
| Thallium | 100.0 | 105.7 | 106 | 62-120 | 1 | 20 |
| Vanadium | 100.0 | 109.3 | 109 | 78-130 | 0 | 20 |
| Zinc | 100.0 | 105.3 | 94 | 64-129 | 5 | 28 |

RPD= Relative Percent Difference



49.0

# Acton - Mickelson • Environmental, Inc.

Chain of Custody and Analysis Request Form

Geotracker Global ID T0604591192

☒ Standard TAT ☐ RUSH TAT ☐ 24 hr. TAT ☐ 48 hr. TAT ☐ 72 hr. TAT ☒ 5 day TAT

Page ____ of ____ | Chain of Custody No. 4378

**Send Results to:**
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762
(916) 939-7550, FAX (916) 939-7570
Attn.: Jeff Heglie

- ☐ Preliminary Fax Result
- ☒ Sample Receipt/ Log-In Confirmation
- ☒ Electronic Data Deliverables
- ☒ Geotracker EDF
- ☐ Raw Data Deliverables
- ☐ Call with Verbal Results

| Lab ID (LAB USE ONLY) | Field Point ID | Sample ID | Date Collected | Time Collected | Matrix | Container | Number of Containers | Preservative | Requested Analysis: 8015B TPHg | 8260B VOCs *1 | | | | | | | Temperature 1 per cooler | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 181365-001 | | MW 10.2 081805TB4 | 8/18/05 | 1500 | W | V | 6 | HCL | X | X | | | | | | | | *1 VOCs Low Level |
| -002 | | MW 10.1-081805 | 8/18/05 | 1250 | GW | V | 6 | HCL | X | X | | | | | | | | |
| -003 | | MW 10.2-081805 | 8/18/05 | 1500 | GW | V | 6 | HCL | X | X | | | | | | | | |
| -004 | | MW DUP 3081805 | 8/18/05 | — | GW | V | 6 | HCL | X | X | | | | | | | | |
| -005 | | SP 3.1 081905 * | 8/18/05 ** | 0845 | GW | V | 6 | HCL | X | X | | | | | | | | |
| | | | | | | | | | | | | | | | | | | 3.4°C |
| | | | | | | | | | | | | | | | | | | ZGW 8-19-05 |
| | | | | | | | | | | | | | | | | | | |
| | | * Labels = Spring-081905 ZGW 8-19-05 | | | | | | | | | | | | | | | | |
| | | ** Labels & COC 475 = 8/19/05 ZGW 8-19-05 | | | | | | | | | | | | | | | | |

| Signature | Date | Time | Signature | Date | Time |
|---|---|---|---|---|---|
| Relinquished by: Thomas Carroll | 8/19/05 | | Relinquished by: | | |
| Received by: Zoey Edwards | 8-19-05 | 1500 | Received by: | | |
| Relinquished by: | | | Relinquished by: | | |
| Received by: | | | Received by: | | |

**Matrix:** W - Water; DW - Drinking Water; SW - Surface Water; GW - Ground Water; WW - Waste Water; RW - Reagent Water; S - Soil; SE - Sediment; SV - Soil Vapor; AA - Ambient Air; WS - Waste (Solid); O - Other
**Container:** GB - Glass Bottle (Amber); V - 40 ml VOA Vial; BT, ST, PT - Brass, Steel, and Plastic Tube; P - Polythethylene; GJ - Glass Jar, SC - Summa Canister; TD - Tedlar
**Preservative:** C - Cold; HS - Sulfuric Acid; HC - Hydrochloric Acid; HN - Nitric Acid; Na - Sodium Hydroxide; O - Other

Project Name and Location: Former Georgia-Pacific Sawmill
Project Number: 16017.01 Receiving Lab: Curtis & Tompkins
Sampled by: Thomas Carroll (Print Name) Thomas Carroll (Signature)

ORIGINAL – Laboratory (Return with Report) YELLOW - Laboratory PINK - Originator

# Acton • Mickelson • Environmental, Inc.

Chain of Custody and Analysis Request Form

Geotracker Global ID T0604591192

☒ Standard TAT ☐ RUSH TAT ☐ 24 hr. TAT ☐ 48 hr. TAT ☐ 72 hr. TAT ☒ 5 day TAT

Page ___ of ___ | Chain of Custody No. 4395

**Send Results to:**
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762
(916) 939-7550, FAX (916) 939-7570
Attn.: Jeff Heglie

- ☐ Preliminary Fax Result
- ☒ Sample Receipt/ Log-In Confirmation
- ☒ Electronic Data Deliverables
- ☒ Geotracker EDF
- ☐ Raw Data Deliverables
- ☐ Call with Verbal Results

| Lab ID (LAB USE ONLY) | Field Point ID | Sample ID | Date Collected | Time Collected | Matrix | Container | Number of Containers | Preservative | Requested Analysis: 8015B TPHd + TPHo | 8270C SVOCs | 8082 PCB Congeners | 8310 PAHs | 6020B Total Metals | Temperature | | | | | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | *1 | | | | *2 | | | | | | |
| 1813605-002 | | MW-10.1-08 18 05 | 8/18/05 | 1250 | GW | GB | 1 | C | X | | | | | | | | | | *1 Use Silica Gel Cleanup |
| | | MW-10.1-08 18 05 | 8/18/05 | 1250 | GW | GB | 2 | C | | X | | | | | | | | | *2 Metals dissolved Field Filtered |
| | | MW-10.1-08 18 05 | 8/18/05 | 1250 | GW | GB | 1 | C | | | X | | | | | | | | |
| | | MW-10.1-08 18 05 | 8/18/05 | 1250 | GW | GB | 1 | C | | | | X | | | | | | | |
| | | MW-10.1-08 18 05 | 8/18/05 | 1250 | GW | P | 1 | HNO3 | | | | | X | | | | | | |
| N/A | | Temperature | 8/18/05 | — | W | P | 1 | C | | | | | | X | | | | | 1 per cooler |
| | | | | | | | | | | | | | | | | | | | 3.0°C |
| | | | | | | | | | | | | | | | | | | | JAW 8-19-05 |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |

| Signature | Date | Time | Signature | Date | Time |
|---|---|---|---|---|---|
| Relinquished by: Thomas Carroll | 8/19/05 | 1030 | Relinquished by: | | |
| Received by: Jay Erwin | 8-19-05 | 1500 | Received by: | | |
| Relinquished by: | | | Relinquished by: | | |
| Received by: | | | Received by: | | |

**Matrix:** W - Water; DW - Drinking Water; SW - Surface Water; GW - Ground Water; WW - Waste Water; RW - Reagent Water; S - Soil; SE - Sediment; SV - Soil Vapor; AA - Ambient Air; WS - Waste (Solid); O - Other
**Container:** GB - Glass Bottle (Amber); V - 40 ml VOA Vial; BT, ST, PT - Brass, Steel, and Plastic Tube; P - Polythethylene; GJ - Glass Jar, SC - Summa Canister; TD - Tedlar
**Preservative:** C - Cold; HS - Sulfuric Acid; HC - Hydrochloric Acid; HN - Nitric Acid; Na - Sodium Hydroxide; O - Other

Project Name and Location: Former Georgia-Pacific Sawmill
Project Number: 16017.01
Receiving Lab: Curtis & Tompkins
Sampled by: Thomas Carroll (Print Name) Thomas Carroll (Signature)

ORIGINAL – Laboratory (Return with Report) YELLOW - Laboratory PINK - Originator

# Acton - Mickelson • Environmental, Inc.

Page 1 of 1 | Chain of Custody № 4396

Chain of Custody and Analysis Request Form

☒ Standard TAT ☐ RUSH TAT ☐ 24 hr. TAT ☐ 48 hr. TAT ☐ 72 hr. TAT ☒ 5 day TAT

Geotracker Global ID T0604591192

**Send Results to:**
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762
(916) 939-7550, FAX (916) 939-7570
Attn.: Jeff Heglie

- ☐ Preliminary Fax Result
- ☒ Sample Receipt/ Log-In Confirmation
- ☒ Electronic Data Deliverables
- ☒ Geotracker EDF
- ☒ Raw Data Deliverables
- ☐ Call with Verbal Results

| Lab ID (LAB USE ONLY) | Field Point ID | Sample ID | Date Collected | Time Collected | Matrix | Container | Number of Containers | Preservative | Requested Analysis: 8015B TPHd+TPHo | 8270C SVOCs | 8082 PCB Congeners | 8310 PAHs | 6020B/7471 Metals | Temperature | | | | | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | #1 | | | | #2 | | | | | | |
| 18\1365-003 | | MW-10.2-08 18 05 | 8/18/05 | 1500 | GW | GB | 1 | C | X | | | | | | | | | | #1 use Silica Gel Cleanup |
| ↓ | | MW-10.2-08 18 05 | 8/18/05 | 1500 | GW | GB | 2 | C | | X | | | | | | | | | #2 Metals, dissolved Field Filtered |
| | | MW-10.2-08 18 05 | 8/18/05 | 1500 | GW | GB | 1 | C | | | X | | | | | | | | |
| | | MW-10.2-08 18 05 | 8/18/05 | 1500 | GW | GB | 1 | C | | | | X | | | | | | | |
| ↓ | | MW-10.2-08 18 05 | 8/18/05 | 1500 | GW | P | 1 | HNO3 | | | | | X | | | | | | |
| N/A | | Temperature | 8/18/05 | — | W | P | 1 | C | | | | | | X | | | | | 1 per cooler |
| | | | | | | | | | | | | | | | | | | | 4.4°C |
| | | | | | | | | | | | | | | | | | | | JAW 8-19-05 |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |

| Signature | Date | Time | Signature | Date | Time |
|---|---|---|---|---|---|
| Relinquished by: Thomas Carroll | 8/19/05 | 1030 | Relinquished by: | | |
| Received by: Jay E Wall | 8-19-05 | 1500 | Received by: | | |
| Relinquished by: | | | Relinquished by: | | |
| Received by: | | | Received by: | | |

**Matrix:** W - Water; DW - Drinking Water; SW - Surface Water; GW - Ground Water; WW - Waste Water; RW - Reagent Water; S - Soil; SE - Sediment; SV - Soil Vapor; AA - Ambient Air; WS - Waste (Solid); O - Other
**Container:** GB - Glass Bottle (Amber); V - 40 ml VOA Vial; BT, ST, PT - Brass, Steel, and Plastic Tube; P - Polythethylene; GJ - Glass Jar, SC - Summa Canister; TD - Tedlar
**Preservative:** C - Cold; HS - Sulfuric Acid; HC - Hydrochloric Acid; HN - Nitric Acid; Na - Sodium Hydroxide; O - Other

Project Name and Location: Former Georgia-Pacific Sawmill
Project Number: 16017.01
Receiving Lab: Curtis & Tompkins
Sampled by: Thomas Carroll (Print Name) Thomas Carroll (Signature)

ORIGINAL – Laboratory (Return with Report) YELLOW - Laboratory PINK - Originator

# Acton • Mickelson • Environmental, Inc.

Chain of Custody and Analysis Request Form

Geotracker Global ID T0604591192

☒ Standard TAT ☐ RUSH TAT ☐ 24 hr. TAT ☐ 48 hr. TAT ☐ 72 hr. TAT ☒ 5 day TAT

Page ____ of ____ | Chain of Custody No. 4160

**Send Results to:**
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762
(916) 939-7550, FAX (916) 939-7570
Attn.: Jeff Heglie

- ☐ Preliminary Fax Result
- ☒ Sample Receipt/ Log-In Confirmation
- ☒ Electronic Data Deliverables
- ☒ Geotracker EDF
- ☐ Raw Data Deliverables
- ☐ Call with Verbal Results

| Lab ID (LAB USE ONLY) | Field Point ID | Sample ID | Date Collected | Time Collected | Matrix | Container | Number of Containers | Preservative | Requested Analysis: 8015B TPHd+TPHg | 8270C SVOC | 5082 PCB Congeners | 8310 PAH | 6020B/7471 Metals | Temperature | Temperature | | | | | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | *1 | | | | *2 | | | | | | | |
| 181305-004 | | MW-DUP-3-0818 05 | 8/18/05 | — | GW | GB | 1 | C | X | | | | | | | | | | | *1 use Silica Gel Cleanup |
| | | MW-DUP-3-0818 05 | 8/18/05 | — | GW | GB | 2 | C | | X | | | | | | | | | | *2 Metals, dissolved Field Filtered |
| | | MW-DUP-3-0818 05 | 8/18/05 | — | GW | GB | 1 | C | | | X | | | | | | | | | |
| | | MW-DUP-3-0818 05 | 8/18/05 | — | GW | GB | 1 | C | | | | X | | | | | | | | |
| | | MW-DUP-3-0818 05 | 8/18/05 | — | GW | P | 1 | HNO3 | | | | | X | | | | | | | |
| N/A | | Temperature | 8/18/05 | — | W | P | 1 | C | | | | | | X | | | | | | one per cooler |
| | | | | | | | | | | | | | | | | | | | | 2.4°C |
| | | | | | | | | | | | | | | | | | | | | JGW 8-19-05 |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |

| Signature | Date | Time | Signature | Date | Time |
|---|---|---|---|---|---|
| Relinquished by: Thomas Carroll | 8/19/05 | 1030 | Relinquished by: | | |
| Received by: Lucy G. Nolan | 8-19-05 | 1500 | Received by: | | |
| Relinquished by: | | | Relinquished by: | | |
| Received by: | | | Received by: | | |

**Matrix:** W - Water; DW - Drinking Water; SW - Surface Water; GW - Ground Water; WW - Waste Water; RW - Reagent Water; S - Soil; SE - Sediment; SV - Soil Vapor; AA - Ambient Air; WS - Waste (Solid); O - Other
**Container:** GB - Glass Bottle (Amber); V - 40 ml VOA Vial; BT, ST, PT - Brass, Steel, and Plastic Tube; P - Polythethylene; GJ - Glass Jar, SC - Summa Canister; TD - Tedlar
**Preservative:** C - Cold; HS - Sulfuric Acid; HC - Hydrochloric Acid; HN - Nitric Acid; Na - Sodium Hydroxide; O - Other

Project Name and Location: Former Georgia-Pacific Sawmill
Project Number: 16017.06
Receiving Lab: Curtis & Tompkins
Sampled by: Thomas Carroll (Print Name) Thomas Carroll (Signature)

ORIGINAL – Laboratory (Return with Report) YELLOW - Laboratory PINK - Originator

# Acton Mickelson • Environmental, Inc.

☒ Standard TAT ☐ RUSH TAT ☐ 24 hr. TAT ☐ 48 hr. TAT ☐ 72 hr. TAT ☒ 5 day TAT

Page ___ of ___ | Chain of Custody

Chain of Custody and Analysis Request Form

Geotracker Global ID T0604591192

**Send Results to:**
5175 Hillsdale Circle, Suite 100
El Dorado Hills, CA 95762
(916) 939-7550, FAX (916) 939-7570
Attn.: Jeff Heglie

- ☐ Preliminary Fax Result
- ☒ Sample Receipt/ Log-In Confirmation
- ☒ Electronic Data Deliverables
- ☒ Geotracker EDF
- ☐ Raw Data Deliverables
- ☐ Call with Verbal Results

| Lab ID (LAB USE ONLY) | Field Point ID | Sample ID | Date Collected | Time Collected | Matrix | Container | Number of Containers | Preservative | Requested Analysis: 8015B TPH d+g+Ho | 8270C SVOC's | 8082 PCB Congeners | 8310 PAH | 6020B/7471 Metals | Temperature | | | | | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | #1 | | | | #2 | | | | | | |
| 181365-005 | | SP-3.1 08 14 05 | 8/14/05 | 0845 | GW | GB | 1 | C | X | | | | | | | | | | #1 Use Silica Gel Cleanup |
| | | SP-3.1 08 14 05 | 8/14/05 | 0845 | GW | GB | 2 | C | | X | | | | | | | | | #2 Metals, dissolved Field Filtered |
| | | SP-3.1-08 14 05 | 8/14/05 | 0845 | GW | GB | 1 | C | | | X | | | | | | | | |
| | | SP-3.1 08 14 05 | 8/14/05 | 0845 | GW | GB | 1 | C | | | | X | | | | | | | |
| | | SP-3.1-0814 05 | 8/14/05 | 0845 | GW | P | 1 | $HNO_3$ | | | | | X | | | | | | |
| N/A | | Temperature | 8/14/05 | — | W | P | 1 | C | | | | | | X | | | | | 1 per cooler |
| | | | | | | | | | | | | | | | | | | | 4.2°C |
| | | | | | | | | | | | | | | | | | | | JWN 8-14-05 |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |

| Signature | Date | Time | Signature | Date | Time |
|---|---|---|---|---|---|
| Relinquished by: Thomas Carroll | 8/14/05 | 1030 | Relinquished by: | | |
| Received by: Jeff Eaton | 8-14-05 | 1500 | Received by: | | |
| Relinquished by: | | | Relinquished by: | | |
| Received by: | | | Received by: | | |

**Matrix:** W - Water; DW - Drinking Water; SW - Surface Water; GW - Ground Water; WW - Waste Water; RW - Reagent Water; S - Soil; SE - Sediment; SV - Soil Vapor; AA - Ambient Air; WS - Waste (Solid); O - Other
**Container:** GB - Glass Bottle (Amber); V - 40 ml VOA Vial; BT, ST, PT - Brass, Steel, and Plastic Tube; P - Polythethylene; GJ - Glass Jar, SC - Summa Canister; TD - Tedlar
**Preservative:** C - Cold; HS - Sulfuric Acid; HC - Hydrochloric Acid; HN - Nitric Acid; Na - Sodium Hydroxide; O - Other

Project Name and Location: Former Georgia-Pacific Sawmill
Project Number: 16017.01
Receiving Lab: Curtis & Tompkins
Sampled by: Thomas Carroll (Print Name) Thomas Carroll (Signature)

ORIGINAL - Laboratory (Return with Report) YELLOW - Laboratory PINK - Originator

# APPENDIX D

## Data Validation Summary Reports

# DATA VALIDATION REPORT

| | |
|---|---|
| Project Name: | Georgia-Pacific California Wood Products Manufacturing Facility |
| Project Location: | 90 West Redwood Avenue, Fort Bragg, California |
| Project Number: | 16017.01 |
| Project Activity: | Quarterly Ground Water Monitoring, Third Quarter 2005 |
| | |
| Laboratory: | Curtis & Tompkins Ltd., Berkeley, California |
| Sample Deliverable Group: | 181301 |
| Sample Date: | 8/15-16/05 |
| Sample Matrix Types: | Water |
| Samples: | See attached Table 1. |
| | |
| Report Date Final: | 12/21/05 |
| Review By: | J.R. Heglie |

This quality assurance review is in accordance with the *Quality Assurance Plan (QAP),* which is Appendix C of the Acton • Mickelson • Environmental, Inc., June 9, 2005, *Work Plan for Additional Site Assessment, Georgia-Pacific California Wood Products Manufacturing Facility.* Referenced guidance documents include U.S. EPA, January 2005, *US EPA Contract Laboratory Program, National Functional Guidelines for Superfund Organic Methods Review, Draft Final*, USEPA-540-R-04-009, U.S. EPA, October 1999, *US EPA Contract Laboratory Program, National Functional Guidelines for Organic Data Review*, EPA 540/R-99/008 and U.S. EPA, July 2002, *US EPA Contract Laboratory Program, National Functional Guidelines for Inorganic Data Review*, EPA 540/R-01/008.

## ORGANIC DATA

### I. SUMMARY OF PROBLEMS/ COMMENTS

Overall, the data quality is good and the data are acceptable for use. A portion of the data has been qualified due to method blank contamination.

Completeness: The analytical results are within the QAQ-specified ranges for data useability.

## II. DATA VERIFICATION REVIEW

SAMPLE COLLECTION AND CHAIN OF CUSTODY. REMARKS:
No exceptions noted.

SAMPLE RECEIPT, INCLUDING CONDITION AND PRESERVATION, REMARKS:
No exceptions noted.

SAMPLE PREPARATION, SAMPLE CLEANUP METHOD, REMARKS:
No exceptions noted.

SAMPLE ANALYSIS, INCLUDING ANALYTICAL METHOD AND PROJECT SPECIFIC REPORTING LIMITS:

| | | No. Samples | No. Exceptions | Note: |
|---|---|---|---|---|
| VOA8015 | Water: | 10 | 0 | |
| (TPHg) | Soil: | NA | NA | |
| | Waste: | NA | NA | |
| VOA8260 | Water: | 10 | 0 | |
| | Soil: | NA | NA | |
| | Waste: | NA | NA | |
| SEMIV 8015 | Water: | 6 | 0 | |
| (TPHd,o) | Soil: | NA | NA | |
| | Waste: | NA | NA | |
| SEMIV 8270 | Water: | 6 | 0 | |
| | Soil: | NA | NA | |
| | Waste: | NA | NA | |
| SEMIV 8310 | Water: | 6 | 0 | |
| (PAHs) | Soil: | NA | NA | |
| | Waste: | NA | NA | |
| PCB 8082 | Water: | 6 | 0 | |
| (PCBs) | Soil: | NA | NA | |
| | Waste: | NA | NA | |

NA – Not analyzed.

REMARKS:

1. Samples –008 through –010 included VOAs only, with extractable fraction included in a separate COC.

## III. SAMPLE HOLDING TIMES

| VOA | Number Samples | Number Late |
|---|---|---|
| Water | 10 | 0 |
| Soil | NA | 0 |
| Waste | NA | 0 |

| SEMIVOLATILE | Number Samples | Number Late |
|---|---|---|
| Water | 6 | 0 |
| Soil | NA | 0 |
| Waste | NA | 0 |

| PESTICIDE/ PCB | Number Samples | Number Late |
|---|---|---|
| Water | 6 | 0 |
| Soil | NA | 0 |
| Waste | NA | 0 |

REMARKS:

1. None.

## IV. LABORATORY CONTROL SAMPLES

| | | |
|---|---|---|
| Water: | VOA8015: A | VOA8260: A |
| Soil: | VOA8015: NA | VOA8260: NA |
| Waste: | VOA8015: NA | VOA8260: NA |

| | | | |
|---|---|---|---|
| Water: | SEMI 8015: A | SEMI 8270: A | SEMI 8310: A |
| Soil: | SEMI 8015: NA | SEMI 8270: NA | SEMI 8310: NA |
| Waste: | SEMI 8015: NA | SEMI 8270: NA | SEMI 8310: NA |

| | | | |
|---|---|---|---|
| Water: | PEST8081: NA | PCB8082: A | SMWW 5550: NA |
| Soil: | PEST8081: NA | PCB8082: NA | SMWW 5550: NA |
| Waste: | PEST8081: NA | PCB8082: NA | SMWW 5550: NA |

A - Acceptable – all criteria met.
P - Provisional – some criteria not met; data useable. See remarks.
U - Unacceptable - criteria not met; data unuseable. See remarks
NA – Not analyzed.

REMARKS:
None.

## V. METHOD BLANK ANALYSIS

| | | | |
|---|---|---|---|
| Water: | VOA8015: A | VOA8260: A | |
| Soil: | VOA8015: NA | VOA8260: NA | |
| Waste: | VOA8015: NA | VOA8260: NA | |
| Water: | SEMI 8015: P | SEMI 8270: A | SEMI 8310: A |
| Soil: | SEMI 8015: NA | SEMI 8270: NA | SEMI 8310: NA |
| Waste: | SEMI 8015: NA | SEMI 8270: NA | SEMI 8310: NA |
| Water: | PEST8081: NA | PCB8082: A | SMWW 5550: NA |
| Soil: | PEST8081: NA | PCB8082: NA | SMWW 5550: NA |
| Waste: | PEST8081: NA | PCB8082: NA | SMWW 5550: NA |

A - Acceptable - no contaminants above minimum detection limits; no interference with sample results.
P - Provisional - contaminants present but minimal interference with sample results.
U - Unacceptable - gross contamination, too much interference to use data for certain components or the entire fraction.
NA – Not analyzed.

REMARKS: Method blanks were contaminated as shown below:

1. Chloroform was detected between the MDL and the EQL in the method blank. Concentrations in corresponding samples were below the MDL, so no data were qualified.
2. Diesel was reported between the MDL and the EQL in the method blank. Results for samples with reported concentrations between the MDL and EQL (samples –005 and –007 for MW-3.1 primary and duplicate) were qualified as not detected ("u").

1.

## VI. SURROGATE SPIKE RESULTS

| | | No. Samples | No. Samples J | No. Samples R |
|---|---|---|---|---|
| VOA8015 | Water: | 10 | 0 | 0 |
| (TPHg) | Soil: | NA | NA | NA |
| | Waste: | NA | NA | NA |
| VOA8260 | Water: | 10 | 0 | 0 |
| | Soil: | NA | NA | NA |
| | Waste: | NA | NA | NA |
| SEMIV 8015 | Water: | 6 | 0 | 0 |
| (TPHd,o) | Soil: | NA | NA | NA |
| | Waste: | NA | NA | NA |
| SEMIV 8270 | Water: | 6 | 0 | 0 |
| | Soil: | NA | NA | NA |
| | Waste: | NA | NA | NA |
| SEMIV 8310 | Water: | 6 | 0 | 0 |
| (PAHs) | Soil: | NA | NA | NA |
| | Waste: | NA | NA | NA |
| PCB 8082 | Water: | 6 | 0 | 0 |
| (PCBs) | Soil: | NA | NA | NA |
| | Waste: | NA | NA | NA |

NA – Not analyzed.

REMARKS:
1. None.

## VII. MATRIX SPIKE RESULTS

| | | No. Compounds | No. Out Criteria | No. <10% Recovery |
|---|---|---|---|---|
| VOA8015 | Water: | 1 | 0 | 0 |
| (TPHg) | Soil: | NA | NA | NA |
| | Waste: | NA | NA | NA |
| VOA8260 | Water: | 5 | 0 | 0 |
| | Soil: | NA | NA | NA |
| | Waste: | NA | NA | NA |
| SEMIV 8015 | Water: | 1 | 0 | 0 |
| (TPHd,o) | Soil: | NA | NA | NA |
| | Waste: | NA | NA | NA |
| SEMIV 8270 | Water: | 11 | 0 | 0 |
| | Soil: | NA | NA | NA |
| | Waste: | NA | NA | NA |
| SEMIV 8310 | Water: | 8 | 0 | 0 |
| (PAHs) | Soil: | NA | NA | NA |
| | Waste: | NA | NA | NA |
| PCB 8082 | Water: | 28 | 0 | 0 |
| (PCBs) | Soil: | NA | NA | NA |
| | Waste: | NA | NA | NA |

NA – Not analyzed.

REMARKS:
None.

## VIII. MATRIX SPIKE DUPLICATE RESULTS

| | | No. Compounds | No. Outside Criteria |
|---|---|---|---|
| VOA8015 | Water: | 1 | 0 |
| (TPHg) | Soil: | NA | NA |
| | Waste: | NA | NA |
| VOA8260 | Water: | 5 | 0 |
| | Soil: | NA | NA |
| | Waste: | NA | NA |
| SEMIV 8015 | Water: | 1 | 0 |
| (NWTPH) | Soil: | NA | NA |
| | Waste: | NA | NA |
| SEMIV 8270 | Water: | 11 | 0 |
| | Soil: | NA | NA |
| | Waste: | NA | NA |
| SEMIV 8310 | Water: | 8 | 0 |
| (PAHs) | Soil: | NA | NA |
| | Waste: | NA | NA |
| PCB 8082 | Water: | 28 | 0 |
| (PCBs) | Soil: | NA | NA |
| | Waste: | NA | NA |

NA – Not analyzed.

REMARKS:
None.

## IX. FIELD DUPLICATE SAMPLE RESULTS

| | | |
|---|---|---|
| Water: | VOA8015: A | VOA8260: A |
| Soil: | VOA8015: NA | VOA8260: NA |
| Waste: | VOA8015: NA | VOA8260: NA |

| | | | |
|---|---|---|---|
| Water: | SEMI 8015: A | SEMI 8270: A | SEMI 8310: A |
| Soil: | SEMI 8015: NA | SEMI 8270: NA | SEMI 8310: NA |
| Waste: | SEMI 8015: NA | SEMI 8270: NA | SEMI 8310: NA |

| | | | |
|---|---|---|---|
| Water: | PEST8081: NA | PCB8082: A | SMWW 5550: NA |
| Soil: | PEST8081: NA | PCB8082: NA | SMWW 5550: NA |
| Waste: | PEST8081: NA | PCB8082: NA | SMWW 5550: NA |

A - Acceptable - the same compounds were identified in the primary and duplicate samples with minor differences in concentration
P - Provisional - the same compounds were identified in the primary and duplicate samples with major differences in concentration. These discrepancies could cause the data to be useful only for limited purposes.
U - Unacceptable - differences were found in compound identifications in the primary and duplicate samples. These discrepancies could cause the results for this fraction to be used for limited purposes or be considered unusable.
NA – Not analyzed.

REMARKS:
1. None.

## X. TRIP BLANK SAMPLE RESULTS

| | | |
|---|---|---|
| Water: | VOA8015: A | VOA8260: A |
| Soil: | VOA8015: NA | VOA8260: NA |
| Waste: | VOA8015: NA | VOA8260: NA |

A - Acceptable - No contaminants above minimum detection limits; no interference with sample results.
P - Provisional - Contaminants present but minimal interference with sample results.
U - Unacceptable - Gross contamination, too much interference to use data for certain components or the entire fraction.
NA – Not analyzed.

REMARKS: Trip blanks were contaminated as shown below:

1. Bromoform, dibromochloromethane, and toluene were reported above the QL in trip blank sample MW-2.1-081505-TB1 (sample –001). Concentrations in corresponding samples were below the MDL, so no data were qualified.
2. Acetone, bromodichloromethane, isopropanol, methylene chloride, and m, p-xylenes were reported between the MDL and the QL in trip blank sample MW-2.1-081505-TB1 (sample –001). Concentrations in corresponding samples were below the MDL, so no data were qualified.

## XI. EQUIPMENT BLANK SAMPLE RESULTS

| | |
|---|---|
| Water: | NA |
| Soil: | NA |
| Waste: | NA |

A - Acceptable - No contaminants above minimum detection limits; no interference with sample results.
P - Provisional - Contaminants present but minimal interference with sample results.
U - Unacceptable - Gross contamination, too much interference to use data for certain components or the entire fraction.
NA – Not analyzed.

REMARKS: Equipment blanks were contaminated as shown below:

1. Equipment blanks were not collected. Sampling equipment consisted of dedicated tubing at each sampling point and a peristaltic pump.

XII. SUMMARY OF QUALIFIED DATA

Data that have been assigned qualifiers as part of this review are listed on the attached Table 2.

## INORGANIC DATA

I. SUMMARY OF PROBLEMS/ COMMENTS

Overall, the data quality is good and the data are acceptable for use.

Completeness: The analytical results are with the QAQ-specified ranges for data useability.

## II. DATA VERIFICATION REVIEW

SAMPLE COLLECTION AND CHAIN OF CUSTODY, REMARKS:
No exceptions noted.

SAMPLE RECEIPT, INCLUDING CONDITION AND PRESERVATION, FIELD FILTRATION, REMARKS:
No exceptions noted. Metal samples were field filtered.

SAMPLE PREPARATION, SAMPLE CLEANUP METHOD, REMARKS:
No exceptions noted.

SAMPLE ANALYSIS, INCLUDING ANALYTICAL METHOD AND PROJECT SPECIFIC REPORTING LIMITS:

| | | No. Samples | No. Exceptions | Note: |
|---|---|---|---|---|
| 6000/7000 | Water: | 6 | 0 | |
| Metals | Soil: | NA | NA | |
| | Waste: | NA | NA | |

NA – Not analyzed.

REMARKS:
1. Samples –008 through –010 included VOAs only, with extractable fraction included in a separate COC.
2. Metals data were reprocessed on 9/23/05 to provide lower reporting limits as originally requested.

## III. SAMPLE HOLDING TIMES (WATER ONLY)

| | Number Samples | Number Late |
|---|---|---|
| 6000/7000 Metals | 6 | 0 |

REMARKS:
None.

## IV. LABORATORY CONTROL SAMPLES

Water: 6000/7000: A
Soil: 6000/7000: NA
Waste: 6000/7000: NA

A - Acceptable – all criteria met.
P - Provisional – some criteria not met; data useable. See remarks.
U - Unacceptable - criteria not met; data unuseable. See remarks
NA – Not analyzed.

REMARKS:
None.

## V. METHOD BLANK ANALYSIS

Water: 6000/7000: A
Soil: 6000/7000: NA
Waste: 6000/7000: NA

A - Acceptable - no contaminants above minimum detection limits; no interference with sample results.
P - Provisional - contaminants present but minimal interference with sample results.
U - Unacceptable - gross contamination, too much interference to use data for certain components or the entire fraction.
NA – Not analyzed.

REMARKS: Method blanks were contaminated as shown below:
None.

## VI. MATRIX SPIKE RESULTS

| | | No. Compounds | No. Out Criteria | No. <10% Recovery |
|---|---|---|---|---|
| 6000/7000 | Water: | 17 | 0 | 0 |
| Metals | Soil: | NA | NA | NA |
| | Waste: | NA | NA | NA |

NA – Not analyzed.

REMARKS:
None.

## VII. MATRIX SPIKE DUPLICATE RESULTS

| | | No. Compounds | No. Outside Criteria |
|---|---|---|---|
| 6000/7000 | Water: | 17 | 1 |
| Metals | Soil: | NA | NA |
| | Waste: | NA | NA |

NA – Not analyzed.

REMARKS:
1. A low MS recovery was noted for zinc; however, it was outside of the criterion by 1 percent only, and the MSD recovery and MS/MSD RPD were both within the specified criteria. The BS and BSD results were also acceptable. No data were qualified.

## VIII. FIELD DUPLICATE SAMPLE RESULTS

Water: 6000/7000: A
Soil: 6000/7000: NA
Waste: 6000/7000: NA

A - Acceptable - the same compounds were identified in the primary and duplicate samples with minor differences in concentration
P - Provisional - the same compounds were identified in the primary and duplicate samples with major differences in concentration. These discrepancies could cause the data to be useful only for limited purposes.
U - Unacceptable - differences were found in compound identifications in the primary and duplicate samples. These discrepancies could cause the results for this fraction to be used for limited purposes or be considered unusable.
NA – Not analyzed.

REMARKS:
1. None.

## IX. EQUIPMENT BLANK SAMPLE RESULTS

Water: 6000/7000: NA
Soil: 6000/7000: NA
Waste: 6000/7000: NA

A - Acceptable - No contaminants above minimum detection limits; no interference with sample results.
P - Provisional - Contaminants present but minimal interference with sample results.
U - Unacceptable - Gross contamination, too much interference to use data for certain components or the entire fraction.
NA – Not analyzed.

REMARKS: Equipment blanks were contaminated as shown below:

1. Equipment blanks were not collected. Sampling equipment consisted of dedicated tubing at each sampling point and a peristaltic pump.

## X. SUMMARY OF QUALIFIED DATA

Data that have been assigned qualifiers as part of this review are listed on the attached Table 2.

TABLE 1
SAMPLES INCLUDED IN THIS QUALITY ASSURANCE REVIEW

| Location | Sample ID | Sample Date | Matrix | Type | Lab ID | Receipt Date | ID on COC |
|---|---|---|---|---|---|---|---|
| MW-2.1 | MW-2.1-081505-TB1 | 8/15/2005 | Water Quality Control Matrix | Trip Blank | 181301-001 | 8/17/2005 | MW2.1-081505TB1 |
| MW-2.1 | MW-2.1-081505 | 8/15/2005 | Ground Water | Normal Environmental Sample | 181301-002 | 8/17/2005 | MW2.1-081505 |
| MW-2.2 | MW-2.2-081505 | 8/15/2005 | Ground Water | Normal Environmental Sample | 181301-003 | 8/17/2005 | MW2.2-081505 |
| MW-2.3 | MW-2.3-081505 | 8/15/2005 | Ground Water | Normal Environmental Sample | 181301-004 | 8/17/2005 | MW2.3-081505 |
| MW-3.1 | MW-3.1-081605 | 8/16/2005 | Ground Water | Normal Environmental Sample | 181301-005 | 8/17/2005 | MW3.1-081605 |
| MW-3.2 | MW-3.2-081605 | 8/16/2005 | Ground Water | Normal Environmental Sample | 181301-006 | 8/17/2005 | MW3.2-081605 |
| MW-3.1 | MW-3.1-081605-FD | 8/16/2005 | Ground Water | Field Duplicate | 181301-007 | 8/17/2005 | MW-DUP-1-081605 |
| MW-3.3 | MW-3.3-081605 | 8/16/2005 | Ground Water | Normal Environmental Sample | 181301-008 | 8/17/2005 | MW3.3-081605 |
| MW-3.4 | MW-3.4-081605 | 8/16/2005 | Ground Water | Normal Environmental Sample | 181301-009 | 8/17/2005 | MW3.4-081605 |
| MW-3.5 | MW-3.5-081605 | 8/16/2005 | Ground Water | Normal Environmental Sample | 181301-010 | 8/17/2005 | MW3.5-081605 |

TABLE 2
SUMMARY OF QUALIFIED DATA

| Sample ID | Lab ID | Method | Analysis Date | Analysis Time | Chemical | Result | Units | Detect Flag | Lab Qual | Review Qual | MDL | EQL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-3.1-081605 | 181301-005 | EPA 8015B | 8/21/2005 | 6:17:00 PM | Diesel C10-C24 | 19 | ug/l | Y | JY | u | 13 | 50 |
| MW-3.1-081605-FD | 181301-007 | EPA 8015B | 8/21/2005 | 7:14:00 PM | Diesel C10-C24 | 23 | ug/l | Y | JY | u | 13 | 50 |

# DATA VALIDATION REPORT

| | |
|---|---|
| Project Name: | Georgia-Pacific California Wood Products Manufacturing Facility |
| Project Location: | 90 West Redwood Avenue, Fort Bragg, California |
| Project Number: | 16017.01 |
| Project Activity: | Quarterly Ground Water Monitoring, Third Quarter 2005 |
| | |
| Laboratory: | Curtis & Tompkins Ltd., Berkeley, California |
| Sample Deliverable Group: | 181341 |
| Sample Date: | 8/16-17/05 |
| Sample Matrix Types: | Water |
| Samples: | See attached Table 1. |
| | |
| Report Date Final: | 12/21/05 |
| Review By: | J.R. Heglie |

This quality assurance review is in accordance with the *Quality Assurance Plan (QAP),* which is Appendix C of the Acton • Mickelson • Environmental, Inc., June 9, 2005, *Work Plan for Additional Site Assessment, Georgia-Pacific California Wood Products Manufacturing Facility.* Referenced guidance documents include U.S. EPA, January 2005, *US EPA Contract Laboratory Program, National Functional Guidelines for Superfund Organic Methods Review, Draft Final*, USEPA-540-R-04-009, U.S. EPA, October 1999, *US EPA Contract Laboratory Program, National Functional Guidelines for Organic Data Review*, EPA 540/R-99/008 and U.S. EPA, July 2002, *US EPA Contract Laboratory Program, National Functional Guidelines for Inorganic Data Review*, EPA 540/R-01/008.

## ORGANIC DATA

### I. SUMMARY OF PROBLEMS/ COMMENTS

Overall, the data quality is good and the data are acceptable for use. A portion of the data has been qualified due to method blank contamination.

Completeness: The analytical results are within the QAQ-specified ranges for data useability.

## II. DATA VERIFICATION REVIEW

SAMPLE COLLECTION AND CHAIN OF CUSTODY. REMARKS:
No exceptions noted.

SAMPLE RECEIPT, INCLUDING CONDITION AND PRESERVATION, REMARKS:
No exceptions noted. One 1-liter amber bottle was broken, but sufficient volume was received to perform the requested analyses.

SAMPLE PREPARATION, SAMPLE CLEANUP METHOD, REMARKS:
No exceptions noted.

SAMPLE ANALYSIS, INCLUDING ANALYTICAL METHOD AND PROJECT SPECIFIC REPORTING LIMITS:

| | | No. Samples | No. Exceptions | Note: |
|---|---|---|---|---|
| VOA8015 | Water: | 12 | 0 | |
| (TPHg) | Soil: | NA | NA | |
| | Waste: | NA | NA | |
| VOA8260 | Water: | 12 | 0 | |
| | Soil: | NA | NA | |
| | Waste: | NA | NA | |
| SEMIV 8015 | Water: | 14 | 0 | |
| (TPHd,o) | Soil: | NA | NA | |
| | Waste: | NA | NA | |
| SEMIV 8270 | Water: | 14 | 0 | |
| | Soil: | NA | NA | |
| | Waste: | NA | NA | |
| SEMIV 8310 | Water: | 14 | 0 | |
| (PAHs) | Soil: | NA | NA | |
| | Waste: | NA | NA | |
| PCB 8082 | Water: | 14 | 0 | |
| (PCBs) | Soil: | NA | NA | |
| | Waste: | NA | NA | |

NA – Not analyzed.

REMARKS:

1. Samples –002 through –004 included extractables only, with VOA fraction included in a separate COC.

## III. SAMPLE HOLDING TIMES

| VOA | Number Samples | Number Late |
|---|---|---|
| Water | 12 | 0 |
| Soil | NA | 0 |
| Waste | NA | 0 |

| SEMIVOLATILE | Number Samples | Number Late |
|---|---|---|
| Water | 14 | 0 |
| Soil | NA | 0 |
| Waste | NA | 0 |

| PESTICIDE/ PCB | Number Samples | Number Late |
|---|---|---|
| Water | 14 | 0 |
| Soil | NA | 0 |
| Waste | NA | 0 |

REMARKS:

1. None.

## IV. LABORATORY CONTROL SAMPLES

| | | |
|---|---|---|
| Water: | VOA8015: A | VOA8260: A |
| Soil: | VOA8015: NA | VOA8260: NA |
| Waste: | VOA8015: NA | VOA8260: NA |

| | | | |
|---|---|---|---|
| Water: | SEMI 8015: A | SEMI 8270: A | SEMI 8310: A |
| Soil: | SEMI 8015: NA | SEMI 8270: NA | SEMI 8310: NA |
| Waste: | SEMI 8015: NA | SEMI 8270: NA | SEMI 8310: NA |

| | | | |
|---|---|---|---|
| Water: | PEST8081: NA | PCB8082: A | SMWW 5550: NA |
| Soil: | PEST8081: NA | PCB8082: NA | SMWW 5550: NA |
| Waste: | PEST8081: NA | PCB8082: NA | SMWW 5550: NA |

A - Acceptable – all criteria met.
P - Provisional – some criteria not met; data useable. See remarks.
U - Unacceptable - criteria not met; data unuseable. See remarks
NA – Not analyzed.

REMARKS:
None.

## V. METHOD BLANK ANALYSIS

| | | |
|---|---|---|
| Water: | VOA8015: A | VOA8260: A |
| Soil: | VOA8015: NA | VOA8260: NA |
| Waste: | VOA8015: NA | VOA8260: NA |

| | | | |
|---|---|---|---|
| Water: | SEMI 8015: P | SEMI 8270: A | SEMI 8310: A |
| Soil: | SEMI 8015: NA | SEMI 8270: NA | SEMI 8310: NA |
| Waste: | SEMI 8015: NA | SEMI 8270: NA | SEMI 8310: NA |

| | | | |
|---|---|---|---|
| Water: | PEST8081: NA | PCB8082: A | SMWW 5550: NA |
| Soil: | PEST8081: NA | PCB8082: NA | SMWW 5550: NA |
| Waste: | PEST8081: NA | PCB8082: NA | SMWW 5550: NA |

A - Acceptable - no contaminants above minimum detection limits; no interference with sample results.
P - Provisional - contaminants present but minimal interference with sample results.
U - Unacceptable - gross contamination, too much interference to use data for certain components or the entire fraction.
NA – Not analyzed.

REMARKS: Method blanks were contaminated as shown below:

1. Chloroform was detected between the MDL and the EQL in the method blank for batch 105049. Concentrations in corresponding samples were below the MDL, so no data were qualified.
2. Diesel was reported between the MDL and the EQL in the method blank for batch 105027. Results for the sample with a reported concentration between the MDL and EQL (sample -011 for MW-3.8) was qualified as not detected ("u").

## VI. SURROGATE SPIKE RESULTS

| | | No. Samples | No. Samples J | No. Samples R |
|---|---|---|---|---|
| VOA8015 | Water: | 12 | 0 | 0 |
| (TPHg) | Soil: | NA | NA | NA |
| | Waste: | NA | NA | NA |
| VOA8260 | Water: | 12 | 0 | 0 |
| | Soil: | NA | NA | NA |
| | Waste: | NA | NA | NA |
| SEMIV 8015 | Water: | 14 | 0 | 0 |
| (TPHd,o) | Soil: | NA | NA | NA |
| | Waste: | NA | NA | NA |
| SEMIV 8270 | Water: | 14 | 0 | 0 |
| | Soil: | NA | NA | NA |
| | Waste: | NA | NA | NA |
| SEMIV 8310 | Water: | 14 | 0 | 0 |
| (PAHs) | Soil: | NA | NA | NA |
| | Waste: | NA | NA | NA |
| PCB 8082 | Water: | 14 | 0 | 0 |
| (PCBs) | Soil: | NA | NA | NA |
| | Waste: | NA | NA | NA |

NA – Not analyzed.

REMARKS:

1. Marginally low surrogate recoveries were reported for TCMX in 5 samples (34 to 36 percent versus a criterion of 37 percent); however, the recovery of the associated BZ# 205 surrogate was within the specified criteria. Also, all PCB congeners were below the MDL in these samples. No data were qualified.

## VII. MATRIX SPIKE RESULTS

| | | No. Compounds | No. Out Criteria | No. <10% Recovery |
|---|---|---|---|---|
| VOA8015 | Water: | 1 | 0 | 0 |
| (TPHg) | Soil: | NA | NA | NA |
| | Waste: | NA | NA | NA |
| VOA8260 | Water: | 5 | 0 | 0 |
| | Soil: | NA | NA | NA |
| | Waste: | NA | NA | NA |
| SEMIV 8015 | Water: | 1 | 0 | 0 |
| (TPHd,o) | Soil: | NA | NA | NA |
| | Waste: | NA | NA | NA |
| SEMIV 8270 | Water: | 11 | 0 | 0 |
| | Soil: | NA | NA | NA |
| | Waste: | NA | NA | NA |
| SEMIV 8310 | Water: | 8 | 0 | 0 |
| (PAHs) | Soil: | NA | NA | NA |
| | Waste: | NA | NA | NA |
| PCB 8082 | Water: | 28 | 0 | 0 |
| (PCBs) | Soil: | NA | NA | NA |
| | Waste: | NA | NA | NA |

NA – Not analyzed.

REMARKS:
None.

## VIII. MATRIX SPIKE DUPLICATE RESULTS

| | | No. Compounds | No. Outside Criteria |
|---|---|---|---|
| VOA8015 | Water: | 1 | 0 |
| (TPHg) | Soil: | NA | NA |
| | Waste: | NA | NA |
| VOA8260 | Water: | 5 | 0 |
| | Soil: | NA | NA |
| | Waste: | NA | NA |
| SEMIV 8015 | Water: | 1 | 0 |
| (NWTPH) | Soil: | NA | NA |
| | Waste: | NA | NA |
| SEMIV 8270 | Water: | 11 | 0 |
| | Soil: | NA | NA |
| | Waste: | NA | NA |
| SEMIV 8310 | Water: | 8 | 0 |
| (PAHs) | Soil: | NA | NA |
| | Waste: | NA | NA |
| PCB 8082 | Water: | 28 | 0 |
| (PCBs) | Soil: | NA | NA |
| | Waste: | NA | NA |

NA – Not analyzed.

REMARKS:
None.

## IX. FIELD DUPLICATE SAMPLE RESULTS

| | | |
|---|---|---|
| Water: | VOA8015: A | VOA8260: A |
| Soil: | VOA8015: NA | VOA8260: NA |
| Waste: | VOA8015: NA | VOA8260: NA |

| | | | |
|---|---|---|---|
| Water: | SEMI 8015: A | SEMI 8270: A | SEMI 8310: A |
| Soil: | SEMI 8015: NA | SEMI 8270: NA | SEMI 8310: NA |
| Waste: | SEMI 8015: NA | SEMI 8270: NA | SEMI 8310: NA |

| | | | |
|---|---|---|---|
| Water: | PEST8081: NA | PCB8082: A | SMWW 5550: NA |
| Soil: | PEST8081: NA | PCB8082: NA | SMWW 5550: NA |
| Waste: | PEST8081: NA | PCB8082: NA | SMWW 5550: NA |

A - Acceptable - the same compounds were identified in the primary and duplicate samples with minor differences in concentration
P - Provisional - the same compounds were identified in the primary and duplicate samples with major differences in concentration. These discrepancies could cause the data to be useful only for limited purposes.
U - Unacceptable - differences were found in compound identifications in the primary and duplicate samples. These discrepancies could cause the results for this fraction to be used for limited purposes or be considered unusable.
NA – Not analyzed.

REMARKS:
1. None.

## X. TRIP BLANK SAMPLE RESULTS

| | | |
|---|---|---|
| Water: | VOA8015: A | VOA8260: A |
| Soil: | VOA8015: NA | VOA8260: NA |
| Waste: | VOA8015: NA | VOA8260: NA |

A - Acceptable - No contaminants above minimum detection limits; no interference with sample results.
P - Provisional - Contaminants present but minimal interference with sample results.
U - Unacceptable - Gross contamination, too much interference to use data for certain components or the entire fraction.
NA – Not analyzed.

REMARKS: Trip blanks were contaminated as shown below:
None.

XI. EQUIPMENT BLANK SAMPLE RESULTS

Water: NA
Soil: NA
Waste: NA

A - Acceptable - No contaminants above minimum detection limits; no interference with sample results.
P - Provisional - Contaminants present but minimal interference with sample results.
U - Unacceptable - Gross contamination, too much interference to use data for certain components or the entire fraction.
NA – Not analyzed.

REMARKS: Equipment blanks were contaminated as shown below:

1. Equipment blanks were not collected. Sampling equipment consisted of dedicated tubing at each sampling point and a peristaltic pump.

XII. SUMMARY OF QUALIFIED DATA

Data that have been assigned qualifiers as part of this review are listed on the attached Table 2.

**INORGANIC DATA**

I. SUMMARY OF PROBLEMS/ COMMENTS

Overall, the data quality is good and the data are acceptable for use.

Completeness: The analytical results are with the QAQ-specified ranges for data useability.

## II. DATA VERIFICATION REVIEW

SAMPLE COLLECTION AND CHAIN OF CUSTODY, REMARKS:
No exceptions noted.

SAMPLE RECEIPT, INCLUDING CONDITION AND PRESERVATION, FIELD FILTRATION, REMARKS:
No exceptions noted. Metal samples were field filtered.

SAMPLE PREPARATION, SAMPLE CLEANUP METHOD, REMARKS:
No exceptions noted.

SAMPLE ANALYSIS, INCLUDING ANALYTICAL METHOD AND PROJECT SPECIFIC REPORTING LIMITS:

| | | No. Samples | No. Exceptions | Note: |
|---|---|---|---|---|
| 6000/7000 | Water: | 14 | 0 | |
| Metals | Soil: | NA | NA | |
| | Waste: | NA | NA | |

NA – Not analyzed.

REMARKS:
1. Metals data were reprocessed on 9/23/05 to provide lower reporting limits as originally requested.

## III. SAMPLE HOLDING TIMES (WATER ONLY)

| | Number Samples | Number Late |
|---|---|---|
| 6000/7000 Metals | 14 | 0 |

REMARKS:
None.

## IV. LABORATORY CONTROL SAMPLES

Water: 6000/7000: A
Soil: 6000/7000: NA
Waste: 6000/7000: NA

A - Acceptable – all criteria met.
P - Provisional – some criteria not met; data useable. See remarks.
U - Unacceptable - criteria not met; data unuseable. See remarks
NA – Not analyzed.

REMARKS:
None.

## V. METHOD BLANK ANALYSIS

Water: 6000/7000: A
Soil: 6000/7000: NA
Waste: 6000/7000: NA

A - Acceptable - no contaminants above minimum detection limits; no interference with sample results.
P - Provisional - contaminants present but minimal interference with sample results.
U - Unacceptable - gross contamination, too much interference to use data for certain components or the entire fraction.
NA – Not analyzed.

REMARKS: Method blanks were contaminated as shown below:
None.

## VI. MATRIX SPIKE RESULTS

| | | No. Compounds | No. Out Criteria | No. <10% Recovery |
|---|---|---|---|---|
| 6000/7000 | Water: | 17 | 0 | 0 |
| Metals | Soil: | NA | NA | NA |
| | Waste: | NA | NA | NA |

NA – Not analyzed.

REMARKS:
None.

## VII. MATRIX SPIKE DUPLICATE RESULTS

| | | No. Compounds | No. Outside Criteria |
|---|---|---|---|
| 6000/7000 | Water: | 17 | 0 |
| Metals | Soil: | NA | NA |
| | Waste: | NA | NA |

NA – Not analyzed.

REMARKS:
None.

## VIII. FIELD DUPLICATE SAMPLE RESULTS

Water: 6000/7000: A
Soil: 6000/7000: NA
Waste: 6000/7000: NA

A - Acceptable - the same compounds were identified in the primary and duplicate samples with minor differences in concentration
P - Provisional - the same compounds were identified in the primary and duplicate samples with major differences in concentration. These discrepancies could cause the data to be useful only for limited purposes.
U - Unacceptable - differences were found in compound identifications in the primary and duplicate samples. These discrepancies could cause the results for this fraction to be used for limited purposes or be considered unusable.
NA – Not analyzed.

REMARKS:
1. None.

## IX. EQUIPMENT BLANK SAMPLE RESULTS

Water: 6000/7000: NA
Soil: 6000/7000: NA
Waste: 6000/7000: NA

A - Acceptable - No contaminants above minimum detection limits; no interference with sample results.
P - Provisional - Contaminants present but minimal interference with sample results.
U - Unacceptable - Gross contamination, too much interference to use data for certain components or the entire fraction.
NA – Not analyzed.

REMARKS: Equipment blanks were contaminated as shown below:

1. Equipment blanks were not collected. Sampling equipment consisted of dedicated tubing at each sampling point and a peristaltic pump.

## X. SUMMARY OF QUALIFIED DATA

Data that have been assigned qualifiers as part of this review are listed on the attached Table 2.

TABLE 1
SAMPLES INCLUDED IN THIS QUALITY ASSURANCE REVIEW

| Location | Sample ID | Sample Date | Matrix | Type | Lab ID | Receipt Date | ID on COC |
|---|---|---|---|---|---|---|---|
| MW-3.5 | MW-3.5-081605-TB2 | 8/16/2005 | Water Quality Control Matrix | Trip Blank | 181341-001 | 8/18/2005 | MW3.5-081605TB2 |
| MW-3.3 | MW-3.3-081605B | 8/16/2005 | Ground Water | Normal Environmental Sample | 181341-002 | 8/18/2005 | MW3.3-081605 |
| MW-3.4 | MW-3.4-081605B | 8/16/2005 | Ground Water | Normal Environmental Sample | 181341-003 | 8/18/2005 | MW3.4-081605 |
| MW-3.5 | MW-3.5-081605B | 8/16/2005 | Ground Water | Normal Environmental Sample | 181341-004 | 8/18/2005 | MW3.5-081605 |
| MW-3.6 | MW-3.6-081605 | 8/16/2005 | Ground Water | Normal Environmental Sample | 181341-005 | 8/18/2005 | MW3.6-081605 |
| MW-5.2 | MW-5.2- | 8/16/2005 | Ground | Normal | 181341- | 8/18/2005 | MW5.2- |

| Location | Sample ID | Sample Date | Matrix | Type | Lab ID | Receipt Date | ID on COC |
|---|---|---|---|---|---|---|---|
| | 081605 | | Water | Environmental Sample | 006 | | 081605 |
| MW-5.4 | MW-5.4-081605-FD | 8/16/2005 | Ground Water | Field Duplicate | 181341-007 | 8/18/2005 | MWDUP2-081605 |
| MW-5.3 | MW-5.3-081605 | 8/16/2005 | Ground Water | Normal Environmental Sample | 181341-008 | 8/18/2005 | MW5.3-081605 |
| MW-5.4 | MW-5.4-081605 | 8/16/2005 | Ground Water | Normal Environmental Sample | 181341-009 | 8/18/2005 | MW5.4-081605 |
| MW-3.7 | MW-3.7-081705 | 8/17/2005 | Ground Water | Normal Environmental Sample | 181341-010 | 8/18/2005 | MW3.7-081705 |
| MW-3.8 | MW-3.8-081705 | 8/17/2005 | Ground Water | Normal Environmental Sample | 181341-011 | 8/18/2005 | MW3.8-081705 |
| MW-3.9 | MW-3.9-081705 | 8/17/2005 | Ground Water | Normal Environmental Sample | 181341-012 | 8/18/2005 | MW3.9-081705 |
| MW-5.5 | MW-5.5-081705 | 8/17/2005 | Ground Water | Normal Environmental Sample | 181341-013 | 8/18/2005 | MW5.5-081705 |
| MW-5.6 | MW-5.6-081705 | 8/17/2005 | Ground Water | Normal Environmental Sample | 181341-014 | 8/18/2005 | MW5.6-081705 |
| MW-5.7 | MW-5.7-081705 | 8/17/2005 | Ground Water | Normal Environmental Sample | 181341-015 | 8/18/2005 | MW5.7-081705 |

TABLE 2
SUMMARY OF QUALIFIED DATA

| Sample ID | Lab ID | Method | Analysis Date | Analysis Time | Chemical | Result | Units | Detect Flag | Lab Qual | Review Qual | MDL | EQL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-3.8-081705 | 181341-011 | EPA 8015B | 8/24/2005 | 12:23:00 PM | Diesel C10-C24 | 20 | ug/l | Y | JY | u | 13 | 50 |

# DATA VALIDATION REPORT

| | |
|---|---|
| Project Name: | Georgia-Pacific California Wood Products Manufacturing Facility |
| Project Location: | 90 West Redwood Avenue, Fort Bragg, California |
| Project Number: | 16017.01 |
| Project Activity: | Quarterly Ground Water Monitoring, Third Quarter 2005 |
| | |
| Laboratory: | Curtis & Tompkins Ltd., Berkeley, California |
| Sample Deliverable Group: | 181361 |
| Sample Date: | 8/17-18/05 |
| Sample Matrix Types: | Water |
| Samples: | See attached Table 1. |
| | |
| Report Date Final: | 12/21/05 |
| Review By: | J.R. Heglie |

This quality assurance review is in accordance with the *Quality Assurance Plan (QAP),* which is Appendix C of the Acton • Mickelson • Environmental, Inc., June 9, 2005, *Work Plan for Additional Site Assessment, Georgia-Pacific California Wood Products Manufacturing Facility.* Referenced guidance documents include U.S. EPA, January 2005, *US EPA Contract Laboratory Program, National Functional Guidelines for Superfund Organic Methods Review, Draft Final*, USEPA-540-R-04-009, U.S. EPA, October 1999, *US EPA Contract Laboratory Program, National Functional Guidelines for Organic Data Review*, EPA 540/R-99/008 and U.S. EPA, July 2002, *US EPA Contract Laboratory Program, National Functional Guidelines for Inorganic Data Review*, EPA 540/R-01/008.

## ORGANIC DATA

I. SUMMARY OF PROBLEMS/ COMMENTS

Overall, the data quality is good and the data are acceptable for use.

Completeness: The analytical results are within the QAQ-specified ranges for data useability.

## II. DATA VERIFICATION REVIEW

SAMPLE COLLECTION AND CHAIN OF CUSTODY. REMARKS:
No exceptions noted.

SAMPLE RECEIPT, INCLUDING CONDITION AND PRESERVATION, REMARKS:
No exceptions noted.

SAMPLE PREPARATION, SAMPLE CLEANUP METHOD, REMARKS:
No exceptions noted.

SAMPLE ANALYSIS, INCLUDING ANALYTICAL METHOD AND PROJECT SPECIFIC REPORTING LIMITS:

| | | No. Samples | No. Exceptions | Note: |
|---|---|---|---|---|
| VOA8015 | Water: | 9 | 0 | |
| (TPHg) | Soil: | NA | NA | |
| | Waste: | NA | NA | |
| VOA8260 | Water: | 9 | 0 | |
| | Soil: | NA | NA | |
| | Waste: | NA | NA | |
| SEMIV 8015 | Water: | 8 | 0 | |
| (TPHd,o) | Soil: | NA | NA | |
| | Waste: | NA | NA | |
| SEMIV 8270 | Water: | 8 | 0 | |
| | Soil: | NA | NA | |
| | Waste: | NA | NA | |
| SEMIV 8310 | Water: | 8 | 0 | |
| (PAHs) | Soil: | NA | NA | |
| | Waste: | NA | NA | |
| PCB 8082 | Water: | 8 | 0 | |
| (PCBs) | Soil: | NA | NA | |
| | Waste: | NA | NA | |

NA – Not analyzed.

REMARKS:
1. None.

## III. SAMPLE HOLDING TIMES

| VOA | Number Samples | Number Late |
|---|---|---|
| Water | 9 | 0 |
| Soil | NA | 0 |
| Waste | NA | 0 |

| SEMIVOLATILE | Number Samples | Number Late |
|---|---|---|
| Water | 8 | 0 |
| Soil | NA | 0 |
| Waste | NA | 0 |

| PESTICIDE/ PCB | Number Samples | Number Late |
|---|---|---|
| Water | 8 | 0 |
| Soil | NA | 0 |
| Waste | NA | 0 |

REMARKS:
1. None.

## IV. LABORATORY CONTROL SAMPLES

| | | |
|---|---|---|
| Water: | VOA8015: A | VOA8260: A |
| Soil: | VOA8015: NA | VOA8260: NA |
| Waste: | VOA8015: NA | VOA8260: NA |

| | | | |
|---|---|---|---|
| Water: | SEMI 8015: A | SEMI 8270: A | SEMI 8310: A |
| Soil: | SEMI 8015: NA | SEMI 8270: NA | SEMI 8310: NA |
| Waste: | SEMI 8015: NA | SEMI 8270: NA | SEMI 8310: NA |

| | | | |
|---|---|---|---|
| Water: | PEST8081: NA | PCB8082: A | SMWW 5550: NA |
| Soil: | PEST8081: NA | PCB8082: NA | SMWW 5550: NA |
| Waste: | PEST8081: NA | PCB8082: NA | SMWW 5550: NA |

A - Acceptable – all criteria met.
P - Provisional – some criteria not met; data useable. See remarks.
U - Unacceptable - criteria not met; data unuseable. See remarks
NA – Not analyzed.

REMARKS:
None.

## V. METHOD BLANK ANALYSIS

| | | |
|---|---|---|
| Water: | VOA8015: A | VOA8260: A |
| Soil: | VOA8015: NA | VOA8260: NA |
| Waste: | VOA8015: NA | VOA8260: NA |

| | | | |
|---|---|---|---|
| Water: | SEMI 8015: A | SEMI 8270: A | SEMI 8310: A |
| Soil: | SEMI 8015: NA | SEMI 8270: NA | SEMI 8310: NA |
| Waste: | SEMI 8015: NA | SEMI 8270: NA | SEMI 8310: NA |

| | | | |
|---|---|---|---|
| Water: | PEST8081: NA | PCB8082: A | SMWW 5550: NA |
| Soil: | PEST8081: NA | PCB8082: NA | SMWW 5550: NA |
| Waste: | PEST8081: NA | PCB8082: NA | SMWW 5550: NA |

A - Acceptable - no contaminants above minimum detection limits; no interference with sample results.
P - Provisional - contaminants present but minimal interference with sample results.
U - Unacceptable - gross contamination, too much interference to use data for certain components or the entire fraction.
NA – Not analyzed.

REMARKS: Method blanks were contaminated as shown below:

1. Chloroform, naphthalene, and 1,2,4-trichlorobenzene were detected between the MDL and the RL in the method blank for batch 105118. Concentrations in corresponding samples were below the MDL, so no data were qualified.
2. Diesel was reported between the MDL and the EQL in the method blank for batch 105027. Concentrations in corresponding samples were below the MDL, so no data were qualified.

1.

## VI. SURROGATE SPIKE RESULTS

| | | No. Samples | No. Samples J | No. Samples R |
|---|---|---|---|---|
| VOA8015 | Water: | 9 | 0 | 0 |
| (TPHg) | Soil: | NA | NA | NA |
| | Waste: | NA | NA | NA |
| VOA8260 | Water: | 9 | 0 | 0 |
| | Soil: | NA | NA | NA |
| | Waste: | NA | NA | NA |
| SEMIV 8015 | Water: | 8 | 0 | 0 |
| (TPHd,o) | Soil: | NA | NA | NA |
| | Waste: | NA | NA | NA |
| SEMIV 8270 | Water: | 8 | 0 | 0 |
| | Soil: | NA | NA | NA |
| | Waste: | NA | NA | NA |
| SEMIV 8310 | Water: | 8 | 0 | 0 |
| (PAHs) | Soil: | NA | NA | NA |
| | Waste: | NA | NA | NA |
| PCB 8082 | Water: | 8 | 0 | 0 |
| (PCBs) | Soil: | NA | NA | NA |
| | Waste: | NA | NA | NA |

NA – Not analyzed.

REMARKS:

1. In sample –004 (for MW-4.4) high surrogate recoveries were noted for 2 out of the 5 surrogates; however, a low surrogate recovery was noted for phenol-d5 due to matrix interference. Since no analytes other than bis(2-ethylhexly) phthalate were reported above the MDL and since the surrogates exhibited no consistent trend, no data were qualified.

## VII. MATRIX SPIKE RESULTS

| | | No. Compounds | No. Out Criteria | No. <10% Recovery |
|---|---|---|---|---|
| VOA8015 | Water: | 1 | 0 | 0 |
| (TPHg) | Soil: | NA | NA | NA |
| | Waste: | NA | NA | NA |
| VOA8260 | Water: | 5 | 0 | 0 |
| | Soil: | NA | NA | NA |
| | Waste: | NA | NA | NA |
| SEMIV 8015 | Water: | 1 | 0 | 0 |
| (TPHd,o) | Soil: | NA | NA | NA |
| | Waste: | NA | NA | NA |
| SEMIV 8270 | Water: | 11 | 0 | 0 |
| | Soil: | NA | NA | NA |
| | Waste: | NA | NA | NA |
| SEMIV 8310 | Water: | 8 | 0 | 0 |
| (PAHs) | Soil: | NA | NA | NA |
| | Waste: | NA | NA | NA |
| PCB 8082 | Water: | 28 | 0 | 0 |
| (PCBs) | Soil: | NA | NA | NA |
| | Waste: | NA | NA | NA |

NA – Not analyzed.

REMARKS:
None.

## VIII. MATRIX SPIKE DUPLICATE RESULTS

| | | No. Compounds | No. Outside Criteria |
|---|---|---|---|
| VOA8015 | Water: | 1 | 0 |
| (TPHg) | Soil: | NA | NA |
| | Waste: | NA | NA |
| VOA8260 | Water: | 5 | 0 |
| | Soil: | NA | NA |
| | Waste: | NA | NA |
| SEMIV 8015 | Water: | 1 | 0 |
| (NWTPH) | Soil: | NA | NA |
| | Waste: | NA | NA |
| SEMIV 8270 | Water: | 11 | 0 |
| | Soil: | NA | NA |
| | Waste: | NA | NA |
| SEMIV 8310 | Water: | 8 | 0 |
| (PAHs) | Soil: | NA | NA |
| | Waste: | NA | NA |
| PCB 8082 | Water: | 28 | 0 |
| (PCBs) | Soil: | NA | NA |
| | Waste: | NA | NA |

NA – Not analyzed.

REMARKS:
None.

## IX. FIELD DUPLICATE SAMPLE RESULTS

| | | |
|---|---|---|
| Water: | VOA8015: A | VOA8260: A |
| Soil: | VOA8015: NA | VOA8260: NA |
| Waste: | VOA8015: NA | VOA8260: NA |

| | | | |
|---|---|---|---|
| Water: | SEMI 8015: A | SEMI 8270: A | SEMI 8310: A |
| Soil: | SEMI 8015: NA | SEMI 8270: NA | SEMI 8310: NA |
| Waste: | SEMI 8015: NA | SEMI 8270: NA | SEMI 8310: NA |

| | | | |
|---|---|---|---|
| Water: | PEST8081: NA | PCB8082: A | SMWW 5550: NA |
| Soil: | PEST8081: NA | PCB8082: NA | SMWW 5550: NA |
| Waste: | PEST8081: NA | PCB8082: NA | SMWW 5550: NA |

A - Acceptable - the same compounds were identified in the primary and duplicate samples with minor differences in concentration
P - Provisional - the same compounds were identified in the primary and duplicate samples with major differences in concentration. These discrepancies could cause the data to be useful only for limited purposes.
U - Unacceptable - differences were found in compound identifications in the primary and duplicate samples. These discrepancies could cause the results for this fraction to be used for limited purposes or be considered unusable.
NA – Not analyzed.

REMARKS:
1. No field duplicates were collected as part of this SDG. Samples are qualified based on acceptable results from field duplicates collected with other SGDs during this sampling event.

## X. TRIP BLANK SAMPLE RESULTS

| | | |
|---|---|---|
| Water: | VOA8015: A | VOA8260: P |
| Soil: | VOA8015: NA | VOA8260: NA |
| Waste: | VOA8015: NA | VOA8260: NA |

A - Acceptable - No contaminants above minimum detection limits; no interference with sample results.
P - Provisional - Contaminants present but minimal interference with sample results.
U - Unacceptable - Gross contamination, too much interference to use data for certain components or the entire fraction.
NA – Not analyzed.

REMARKS: Trip blanks were contaminated as shown below:

1. Acetone was reported between the MDL and the QL in trip blank sample MW-5.9-081805-TB3 (sample –009). Concentrations in corresponding samples were below the MDL, so no data were qualified.

## XI. EQUIPMENT BLANK SAMPLE RESULTS

| | |
|---|---|
| Water: | NA |
| Soil: | NA |
| Waste: | NA |

A - Acceptable - No contaminants above minimum detection limits; no interference with sample results.
P - Provisional - Contaminants present but minimal interference with sample results.
U - Unacceptable - Gross contamination, too much interference to use data for certain components or the entire fraction.
NA – Not analyzed.

REMARKS: Equipment blanks were contaminated as shown below:

1. Equipment blanks were not collected. Sampling equipment consisted of dedicated tubing at each sampling point and a peristaltic pump.

## XII. SUMMARY OF QUALIFIED DATA

Data that have been assigned qualifiers as part of this review are listed on the attached Table 2.

## INORGANIC DATA

### I. SUMMARY OF PROBLEMS/ COMMENTS

Overall, the data quality is good and the data are acceptable for use.

Completeness: The analytical results are with the QAQ-specified ranges for data useability.

### II. DATA VERIFICATION REVIEW

SAMPLE COLLECTION AND CHAIN OF CUSTODY, REMARKS:
No exceptions noted.

SAMPLE RECEIPT, INCLUDING CONDITION AND PRESERVATION, FIELD FILTRATION, REMARKS:
No exceptions noted. Metal samples were field filtered.

SAMPLE PREPARATION, SAMPLE CLEANUP METHOD, REMARKS:
No exceptions noted.

SAMPLE ANALYSIS, INCLUDING ANALYTICAL METHOD AND PROJECT SPECIFIC REPORTING LIMITS:

| | | No. Samples | No. Exceptions | Note: |
|---|---|---|---|---|
| 6000/7000 | Water: | 9 | 0 | |
| Metals | Soil: | NA | NA | |
| | Waste: | NA | NA | |

NA – Not analyzed.

REMARKS:
1. Metals data were reprocessed on 9/23/05 to provide lower reporting limits as originally requested.

## III. SAMPLE HOLDING TIMES (WATER ONLY)

| | Number Samples | Number Late |
|---|---|---|
| 6000/7000 Metals | 9 | 0 |

REMARKS:
None.

## IV. LABORATORY CONTROL SAMPLES

Water: 6000/7000: A
Soil: 6000/7000: NA
Waste: 6000/7000: NA

A - Acceptable – all criteria met.
P - Provisional – some criteria not met; data useable. See remarks.
U - Unacceptable - criteria not met; data unuseable. See remarks
NA – Not analyzed.

REMARKS:
None.

## V. METHOD BLANK ANALYSIS

Water: 6000/7000: A
Soil: 6000/7000: NA
Waste: 6000/7000: NA

A - Acceptable - no contaminants above minimum detection limits; no interference with sample results.
P - Provisional - contaminants present but minimal interference with sample results.
U - Unacceptable - gross contamination, too much interference to use data for certain components or the entire fraction.
NA – Not analyzed.

REMARKS: Method blanks were contaminated as shown below:
None.

## VI. MATRIX SPIKE RESULTS

| | | No. Compounds | No. Out Criteria | No. <10% Recovery |
|---|---|---|---|---|
| 6000/7000 | Water: | 17 | 0 | 0 |
| Metals | Soil: | NA | NA | NA |
| | Waste: | NA | NA | NA |

NA – Not analyzed.

REMARKS:
None.

## VII. MATRIX SPIKE DUPLICATE RESULTS

| | | No. Compounds | No. Outside Criteria |
|---|---|---|---|
| 6000/7000 | Water: | 17 | 1 |
| Metals | Soil: | NA | NA |
| | Waste: | NA | NA |

NA – Not analyzed.

REMARKS:
1. A low MS recovery was noted for zinc; however, it was outside of the criterion by 1 percent only, and the MSD recovery and MS/MSD RPD were both within the specified criteria. The BS and BSD results were also acceptable. No data were qualified.

## VIII. FIELD DUPLICATE SAMPLE RESULTS

Water: 6000/7000: A
Soil: 6000/7000: NA
Waste: 6000/7000: NA

A - Acceptable - the same compounds were identified in the primary and duplicate samples with minor differences in concentration
P - Provisional - the same compounds were identified in the primary and duplicate samples with major differences in concentration. These discrepancies could cause the data to be useful only for limited purposes.
U - Unacceptable - differences were found in compound identifications in the primary and duplicate samples. These discrepancies could cause the results for this fraction to be used for limited purposes or be considered unusable.
NA – Not analyzed.

REMARKS:
1. No field duplicates were collected as part of this SDG. Samples are qualified based on acceptable results from field duplicates collected with other SGDs during this sampling event.

## IX. EQUIPMENT BLANK SAMPLE RESULTS

Water: 6000/7000: NA
Soil: 6000/7000: NA
Waste: 6000/7000: NA

A - Acceptable - No contaminants above minimum detection limits; no interference with sample results.
P - Provisional - Contaminants present but minimal interference with sample results.
U - Unacceptable - Gross contamination, too much interference to use data for certain components or the entire fraction.
NA – Not analyzed.

REMARKS: Equipment blanks were contaminated as shown below:
1. Equipment blanks were not collected. Sampling equipment consisted of dedicated tubing at each sampling point and a peristaltic pump.

## X. SUMMARY OF QUALIFIED DATA

Data that have been assigned qualifiers as part of this review are listed on the attached Table 2.

TABLE 1
SAMPLES INCLUDED IN THIS QUALITY ASSURANCE REVIEW

| Location | Sample ID | Sample Date | Matrix | Type | Lab ID | Receipt Date | ID on COC |
|---|---|---|---|---|---|---|---|
| MW-4.1 | MW-4.1-081805 | 8/18/2005 | Ground Water | Normal Environmental Sample | 181361-001 | 8/19/2005 | MW-4.1-081805 |
| MW-4.2 | MW-4.2-081805 | 8/18/2005 | Ground Water | Normal Environmental Sample | 181361-002 | 8/19/2005 | MW-4.2-081805 |
| MW-4.3 | MW-4.3-081705 | 8/17/2005 | Ground Water | Normal Environmental Sample | 181361-003 | 8/19/2005 | MW-4.3-081705 |
| MW-4.4 | MW-4.4-081705 | 8/17/2005 | Ground Water | Normal Environmental Sample | 181361-004 | 8/19/2005 | MW-4.4-081705 |
| MW-5.8 | MW-5.8-081705 | 8/17/2005 | Ground Water | Normal Environmental Sample | 181361-005 | 8/19/2005 | MW-5.8-081705 |
| MW-5.9 | MW-5.9-081805 | 8/18/2005 | Ground Water | Normal Environmental Sample | 181361-006 | 8/19/2005 | MW-5.9-081805 |
| MW-7.1 | MW-7.1-081805 | 8/18/2005 | Ground Water | Normal Environmental Sample | 181361-007 | 8/19/2005 | MW-7.1-081805 |
| MW-10.4 | MW-10.4-081805 | 8/18/2005 | Ground Water | Normal Environmental Sample | 181361-008 | 8/19/2005 | MW-10.4-081805 |
| MW-5.9 | MW-5.9-081805-TB3 | 8/18/2005 | Water Quality Control Matrix | Trip Blank | 181361-009 | 8/19/2005 | MW-5.9-081805TB3 |

TABLE 2
SUMMARY OF QUALIFIED DATA

None.

# DATA VALIDATION REPORT

| | |
|---|---|
| Project Name: | Georgia-Pacific California Wood Products Manufacturing Facility |
| Project Location: | 90 West Redwood Avenue, Fort Bragg, California |
| Project Number: | 16017.01 |
| Project Activity: | Quarterly Ground Water Monitoring, Third Quarter 2005 |
| | |
| Laboratory: | Curtis & Tompkins Ltd., Berkeley, California |
| Sample Deliverable Group: | 181365 |
| Sample Date: | 8/18-19/05 |
| Sample Matrix Types: | Water |
| Samples: | See attached Table 1. |
| | |
| Report Date Final: | 12/21/05 |
| Review By: | J.R. Heglie |

This quality assurance review is in accordance with the *Quality Assurance Plan (QAP),* which is Appendix C of the Acton • Mickelson • Environmental, Inc., June 9, 2005, *Work Plan for Additional Site Assessment, Georgia-Pacific California Wood Products Manufacturing Facility.* Referenced guidance documents include U.S. EPA, January 2005, *US EPA Contract Laboratory Program, National Functional Guidelines for Superfund Organic Methods Review, Draft Final*, USEPA-540-R-04-009, U.S. EPA, October 1999, *US EPA Contract Laboratory Program, National Functional Guidelines for Organic Data Review*, EPA 540/R-99/008 and U.S. EPA, July 2002, *US EPA Contract Laboratory Program, National Functional Guidelines for Inorganic Data Review*, EPA 540/R-01/008.

## ORGANIC DATA

### I. SUMMARY OF PROBLEMS/ COMMENTS

Overall, the data quality is good and the data are acceptable for use. A portion of the data has been qualified due to method blank contamination.

Completeness: The analytical results are within the QAQ-specified ranges for data useability.

## II. DATA VERIFICATION REVIEW

SAMPLE COLLECTION AND CHAIN OF CUSTODY. REMARKS:
No exceptions noted.

SAMPLE RECEIPT, INCLUDING CONDITION AND PRESERVATION, REMARKS:
No exceptions noted.

SAMPLE PREPARATION, SAMPLE CLEANUP METHOD, REMARKS:
No exceptions noted.

SAMPLE ANALYSIS, INCLUDING ANALYTICAL METHOD AND PROJECT SPECIFIC REPORTING LIMITS:

| | | No. Samples | No. Exceptions | Note: |
|---|---|---|---|---|
| VOA8015 | Water: | 5 | 0 | |
| (TPHg) | Soil: | NA | NA | |
| | Waste: | NA | NA | |
| VOA8260 | Water: | 5 | 0 | |
| | Soil: | NA | NA | |
| | Waste: | NA | NA | |
| SEMIV 8015 | Water: | 4 | 0 | |
| (TPHd,o) | Soil: | NA | NA | |
| | Waste: | NA | NA | |
| SEMIV 8270 | Water: | 4 | 0 | |
| | Soil: | NA | NA | |
| | Waste: | NA | NA | |
| SEMIV 8310 | Water: | 4 | 0 | |
| (PAHs) | Soil: | NA | NA | |
| | Waste: | NA | NA | |
| PCB 8082 | Water: | 4 | 0 | |
| (PCBs) | Soil: | NA | NA | |
| | Waste: | NA | NA | |

NA – Not analyzed.

REMARKS:
1. None.

## III. SAMPLE HOLDING TIMES

| VOA | Number Samples | Number Late |
|---|---|---|
| Water | 5 | 0 |
| Soil | NA | 0 |
| Waste | NA | 0 |

| SEMIVOLATILE | Number Samples | Number Late |
|---|---|---|
| Water | 4 | 0 |
| Soil | NA | 0 |
| Waste | NA | 0 |

| PESTICIDE/ PCB | Number Samples | Number Late |
|---|---|---|
| Water | 4 | 0 |
| Soil | NA | 0 |
| Waste | NA | 0 |

REMARKS:
1. None.

## IV. LABORATORY CONTROL SAMPLES

| | | |
|---|---|---|
| Water: | VOA8015: A | VOA8260: A |
| Soil: | VOA8015: NA | VOA8260: NA |
| Waste: | VOA8015: NA | VOA8260: NA |

| | | | |
|---|---|---|---|
| Water: | SEMI 8015: A | SEMI 8270: A | SEMI 8310: A |
| Soil: | SEMI 8015: NA | SEMI 8270: NA | SEMI 8310: NA |
| Waste: | SEMI 8015: NA | SEMI 8270: NA | SEMI 8310: NA |

| | | | |
|---|---|---|---|
| Water: | PEST8081: NA | PCB8082: A | SMWW 5550: NA |
| Soil: | PEST8081: NA | PCB8082: NA | SMWW 5550: NA |
| Waste: | PEST8081: NA | PCB8082: NA | SMWW 5550: NA |

A - Acceptable – all criteria met.
P - Provisional – some criteria not met; data useable. See remarks.
U - Unacceptable - criteria not met; data unuseable. See remarks
NA – Not analyzed.

REMARKS:
None.

## V. METHOD BLANK ANALYSIS

| | | |
|---|---|---|
| Water: | VOA8015: A | VOA8260: P |
| Soil: | VOA8015: NA | VOA8260: NA |
| Waste: | VOA8015: NA | VOA8260: NA |

| | | | |
|---|---|---|---|
| Water: | SEMI 8015: A | SEMI 8270: A | SEMI 8310: A |
| Soil: | SEMI 8015: NA | SEMI 8270: NA | SEMI 8310: NA |
| Waste: | SEMI 8015: NA | SEMI 8270: NA | SEMI 8310: NA |

| | | | |
|---|---|---|---|
| Water: | PEST8081: NA | PCB8082: A | SMWW 5550: NA |
| Soil: | PEST8081: NA | PCB8082: NA | SMWW 5550: NA |
| Waste: | PEST8081: NA | PCB8082: NA | SMWW 5550: NA |

A - Acceptable - no contaminants above minimum detection limits; no interference with sample results.
P - Provisional - contaminants present but minimal interference with sample results.
U - Unacceptable - gross contamination, too much interference to use data for certain components or the entire fraction.
NA – Not analyzed.

REMARKS: Method blanks were contaminated as shown below:

1. Chloroform, naphthalene, and 1,2,4-trichlorobenzene detected between the MDL and the RL in the method blank for batch 105118. The reported concentration of chloroform was qualified as non-detected, “u” in the associated trip blank sample MW-10.2-081805-TB4 (-001), which was between the MDL and the RL.

## VI. SURROGATE SPIKE RESULTS

| | | No. Samples | No. Samples J | No. Samples R |
|---|---|---|---|---|
| VOA8015 | Water: | 5 | 0 | 0 |
| (TPHg) | Soil: | NA | NA | NA |
| | Waste: | NA | NA | NA |
| VOA8260 | Water: | 5 | 0 | 0 |
| | Soil: | NA | NA | NA |
| | Waste: | NA | NA | NA |
| SEMIV 8015 | Water: | 4 | 0 | 0 |
| (TPHd,o) | Soil: | NA | NA | NA |
| | Waste: | NA | NA | NA |
| SEMIV 8270 | Water: | 4 | 0 | 0 |
| | Soil: | NA | NA | NA |
| | Waste: | NA | NA | NA |
| SEMIV 8310 | Water: | 4 | 0 | 0 |
| (PAHs) | Soil: | NA | NA | NA |
| | Waste: | NA | NA | NA |
| PCB 8082 | Water: | 4 | 0 | 0 |
| (PCBs) | Soil: | NA | NA | NA |
| | Waste: | NA | NA | NA |

NA – Not analyzed.

REMARKS:

1. Marginally low surrogate recoveries were reported for TCMX in 3 samples (33 to 36 percent versus a criterion of 37 percent); however, the recovery of the associated BZ# 205 surrogate was within the specified criteria. Also, all PCB congeners were below the MDL in these samples. No data were qualified.

## VII. MATRIX SPIKE RESULTS

| | | No. Compounds | No. Out Criteria | No. <10% Recovery |
|---|---|---|---|---|
| VOA8015 | Water: | 1 | 0 | 0 |
| (TPHg) | Soil: | NA | NA | NA |
| | Waste: | NA | NA | NA |
| VOA8260 | Water: | 5 | 0 | 0 |
| | Soil: | NA | NA | NA |
| | Waste: | NA | NA | NA |
| SEMIV 8015 | Water: | 1 | 0 | 0 |
| (TPHd,o) | Soil: | NA | NA | NA |
| | Waste: | NA | NA | NA |
| SEMIV 8270 | Water: | 11 | 0 | 0 |
| | Soil: | NA | NA | NA |
| | Waste: | NA | NA | NA |
| SEMIV 8310 | Water: | 8 | 0 | 0 |
| (PAHs) | Soil: | NA | NA | NA |
| | Waste: | NA | NA | NA |
| PCB 8082 | Water: | 28 | 0 | 0 |
| (PCBs) | Soil: | NA | NA | NA |
| | Waste: | NA | NA | NA |

NA – Not analyzed.

REMARKS:
None.

## VIII. MATRIX SPIKE DUPLICATE RESULTS

| | | No. Compounds | No. Outside Criteria |
|---|---|---|---|
| VOA8015 | Water: | 1 | 0 |
| (TPHg) | Soil: | NA | NA |
| | Waste: | NA | NA |
| VOA8260 | Water: | 5 | 0 |
| | Soil: | NA | NA |
| | Waste: | NA | NA |
| SEMIV 8015 | Water: | 1 | 0 |
| (NWTPH) | Soil: | NA | NA |
| | Waste: | NA | NA |
| SEMIV 8270 | Water: | 11 | 0 |
| | Soil: | NA | NA |
| | Waste: | NA | NA |
| SEMIV 8310 | Water: | 8 | 0 |
| (PAHs) | Soil: | NA | NA |
| | Waste: | NA | NA |
| PCB 8082 | Water: | 28 | 0 |
| (PCBs) | Soil: | NA | NA |
| | Waste: | NA | NA |

NA – Not analyzed.

REMARKS:
None.

## IX. FIELD DUPLICATE SAMPLE RESULTS

| | | | |
|---|---|---|---|
| Water: | VOA8015: A | VOA8260: A | |
| Soil: | VOA8015: NA | VOA8260: NA | |
| Waste: | VOA8015: NA | VOA8260: NA | |
| Water: | SEMI 8015: A | SEMI 8270: A | SEMI 8310: A |
| Soil: | SEMI 8015: NA | SEMI 8270: NA | SEMI 8310: NA |
| Waste: | SEMI 8015: NA | SEMI 8270: NA | SEMI 8310: NA |
| Water: | PEST8081: NA | PCB8082: A | SMWW 5550: NA |
| Soil: | PEST8081: NA | PCB8082: NA | SMWW 5550: NA |
| Waste: | PEST8081: NA | PCB8082: NA | SMWW 5550: NA |

A - Acceptable - the same compounds were identified in the primary and duplicate samples with minor differences in concentration
P - Provisional - the same compounds were identified in the primary and duplicate samples with major differences in concentration. These discrepancies could cause the data to be useful only for limited purposes.
U - Unacceptable - differences were found in compound identifications in the primary and duplicate samples. These discrepancies could cause the results for this fraction to be used for limited purposes or be considered unusable.
NA – Not analyzed.

REMARKS:
1. None.

## X. TRIP BLANK SAMPLE RESULTS

| | | |
|---|---|---|
| Water: | VOA8015: A | VOA8260: P |
| Soil: | VOA8015: NA | VOA8260: NA |
| Waste: | VOA8015: NA | VOA8260: NA |

A - Acceptable - No contaminants above minimum detection limits; no interference with sample results.
P - Provisional - Contaminants present but minimal interference with sample results.
U - Unacceptable - Gross contamination, too much interference to use data for certain components or the entire fraction.
NA – Not analyzed.

REMARKS: Trip blanks were contaminated as shown below:

1. Acetone and isopropanol were reported above the QL in trip blank sample MW-10.2-081805-TB4(sample –001). Concentrations in corresponding samples were below the MDL, so no data were qualified.
2. 2-butanone (methyl ethyl ketone), chloroform, and 4-methyl-2-pentanone were reported between the MDL and the QL in trip blank sample MW-10.2-081805-TB4(sample –001). Concentrations in corresponding samples were below the MDL, so no data were qualified.

## XI. EQUIPMENT BLANK SAMPLE RESULTS

| | |
|---|---|
| Water: | NA |
| Soil: | NA |
| Waste: | NA |

A - Acceptable - No contaminants above minimum detection limits; no interference with sample results.
P - Provisional - Contaminants present but minimal interference with sample results.
U - Unacceptable - Gross contamination, too much interference to use data for certain components or the entire fraction.
NA – Not analyzed.

REMARKS: Equipment blanks were contaminated as shown below:

1. Equipment blanks were not collected. Sampling equipment consisted of dedicated tubing at each sampling point and a peristaltic pump.

XII. SUMMARY OF QUALIFIED DATA

Data that have been assigned qualifiers as part of this review are listed on the attached Table 2.

## INORGANIC DATA

I. SUMMARY OF PROBLEMS/ COMMENTS

Overall, the data quality is good and the data are acceptable for use.

Completeness: The analytical results are with the QAQ-specified ranges for data useability.

II. DATA VERIFICATION REVIEW

SAMPLE COLLECTION AND CHAIN OF CUSTODY, REMARKS:
No exceptions noted.

SAMPLE RECEIPT, INCLUDING CONDITION AND PRESERVATION, FIELD FILTRATION, REMARKS:
No exceptions noted. Metal samples were field filtered.

SAMPLE PREPARATION, SAMPLE CLEANUP METHOD, REMARKS:
No exceptions noted.

SAMPLE ANALYSIS, INCLUDING ANALYTICAL METHOD AND PROJECT SPECIFIC REPORTING LIMITS:

| | | No. Samples | No. Exceptions | Note: |
|---|---|---|---|---|
| 6000/7000 | Water: | 4 | 0 | |
| Metals | Soil: | NA | NA | |
| | Waste: | NA | NA | |

NA – Not analyzed.

REMARKS:
1. Metals data were reprocessed on 9/23/05 to provide lower reporting limits as originally requested.

## III. SAMPLE HOLDING TIMES (WATER ONLY)

| | Number Samples | Number Late |
|---|---|---|
| 6000/7000 Metals | 4 | 0 |

REMARKS:
None.

## IV. LABORATORY CONTROL SAMPLES

Water: 6000/7000: A
Soil: 6000/7000: NA
Waste: 6000/7000: NA

A - Acceptable – all criteria met.
P - Provisional – some criteria not met; data useable. See remarks.
U - Unacceptable - criteria not met; data unuseable. See remarks
NA – Not analyzed.

REMARKS:
None.

## V. METHOD BLANK ANALYSIS

Water: 6000/7000: A
Soil: 6000/7000: NA
Waste: 6000/7000: NA

A - Acceptable - no contaminants above minimum detection limits; no interference with sample results.
P - Provisional - contaminants present but minimal interference with sample results.
U - Unacceptable - gross contamination, too much interference to use data for certain components or the entire fraction.
NA – Not analyzed.

REMARKS: Method blanks were contaminated as shown below:
None.

## VI. MATRIX SPIKE RESULTS

| | | No. Compounds | No. Out Criteria | No. <10% Recovery |
|---|---|---|---|---|
| 6000/7000 | Water: | 17 | 0 | 0 |
| Metals | Soil: | NA | NA | NA |
| | Waste: | NA | NA | NA |

NA – Not analyzed.

REMARKS:
None.

## VII. MATRIX SPIKE DUPLICATE RESULTS

| | | No. Compounds | No. Outside Criteria |
|---|---|---|---|
| 6000/7000 | Water: | 17 | 0 |
| Metals | Soil: | NA | NA |
| | Waste: | NA | NA |

NA – Not analyzed.

REMARKS:
None.

## VIII. FIELD DUPLICATE SAMPLE RESULTS

Water: 6000/7000: A
Soil: 6000/7000: NA
Waste: 6000/7000: NA

A - Acceptable - the same compounds were identified in the primary and duplicate samples with minor differences in concentration
P - Provisional - the same compounds were identified in the primary and duplicate samples with major differences in concentration. These discrepancies could cause the data to be useful only for limited purposes.
U - Unacceptable - differences were found in compound identifications in the primary and duplicate samples. These discrepancies could cause the results for this fraction to be used for limited purposes or be considered unusable.
NA – Not analyzed.

REMARKS:
1. None.

## IX. EQUIPMENT BLANK SAMPLE RESULTS

Water: 6000/7000: NA
Soil: 6000/7000: NA
Waste: 6000/7000: NA

A - Acceptable - No contaminants above minimum detection limits; no interference with sample results.
P - Provisional - Contaminants present but minimal interference with sample results.
U - Unacceptable - Gross contamination, too much interference to use data for certain components or the entire fraction.
NA – Not analyzed.

REMARKS: Equipment blanks were contaminated as shown below:
None.

## X. SUMMARY OF QUALIFIED DATA

Data that have been assigned qualifiers as part of this review are listed on the attached Table 2.

TABLE 1
SAMPLES INCLUDED IN THIS QUALITY ASSURANCE REVIEW

| Location | Sample ID | Sample Date | Matrix | Type | Lab ID | Receipt Date | ID on COC |
|---|---|---|---|---|---|---|---|
| MW-10.2 | MW-10.2-081805-TB4 | 8/18/2005 | Water Quality Control Matrix | Trip Blank | 181365-001 | 8/19/2005 | MW10.2081805TB4 |
| MW-10.1 | MW-10.1-081805 | 8/18/2005 | Ground Water | Normal Environmental Sample | 181365-002 | 8/19/2005 | MW10.1-081805 |
| MW-10.2 | MW-10.2-081805 | 8/18/2005 | Ground Water | Normal Environmental Sample | 181365-003 | 8/19/2005 | MW10.2-081805 |
| MW-10.1 | MW-10.1-3081805-FD | 8/18/2005 | Ground Water | Field Duplicate | 181365-004 | 8/19/2005 | MWDUP3081805 |
| SP-3.1 | SP-3.1-081905 | 8/19/2005 | Ground Water | Normal Environmental Sample | 181365-005 | 8/19/2005 | SP3.1081905 |

TABLE 2
SUMMARY OF QUALIFIED DATA

| Sample ID | Lab ID | Method | Analysis Date | Analysis Time | Chemical | Result | Units | Detect Flag | Lab Qual | Review Qual | MDL | EQL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-10.2-081805-TB4 | 181365-001 | EPA 8260B | 8/24/2005 | 5:25:00 PM | Chloroform | 0.3 | ug/l | Y | J | u | 0.04 | 0.5 |