

November 18, 2008

Analytical Report for Service Request No: K0810178

Joe Kabale
Environmental Chemistry Consulting Services, Inc.
2525 Advance Rd.
Madison, WI 53718

RE: Kuhlman Electric

Dear Joe:

Enclosed are the results of the samples submitted to our laboratory on October 16, 2008. For your reference, these analyses have been assigned our service request number K0810178.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.caslab.com. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3376. You may also contact me via Email at GSalata@caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

Gregory Salata, Ph.D.
Project Chemist

GS/ln

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cc: Chris Slagle, Martin and Slagle, Black Mountain, NC

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
 - i The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.

Metals Data Qualifiers

- # The control limit criteria is not applicable. See case narrative.
- B The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
 - i The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.
- * The duplicate analysis not within control limits. See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.

Organic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
 - i The MRL/MDL has been elevated due to a chromatographic interference.
- X See case narrative.

Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

Columbia Analytical Services, Inc.
Kelso, WA
State Certifications, Accreditations, and Licenses

Program	Number
Alaska DEC UST	UST-040
Arizona DHS	AZ0339
Arkansas - DEQ	88-0637
California DHS	2286
Colorado DPHE	-
Florida DOH	E87412
Hawaii DOH	-
Idaho DHW	-
Indiana DOH	C-WA-01
Louisiana DEQ	3016
Louisiana DHH	LA050010
Maine DHS	WA0035
Michigan DEQ	9949
Minnesota DOH	053-999-368
Montana DPHHS	CERT0047
Nevada DEP	WA35
New Jersey DEP	WA005
New Mexico ED	-
North Carolina DWQ	605
Oklahoma DEQ	9801
Oregon - DHS	WA200001
South Carolina DHEC	61002
Utah DOH	COLU
Washington DOE	C1203
Wisconsin DNR	998386840
Wyoming (EPA Region 8)	-



Case Narrative

COLUMBIA ANALYTICAL SERVICES, INC.

Client: Environmental Chemistry Consulting Services, Inc. Service Request No.: K0810178
Project: Kuhlman Electric Date Received: 10/16/08
Sample Matrix: Water

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier II data deliverables. When appropriate to the method, method blank results have been reported with each analytical test. Surrogate recoveries have been reported for all applicable organic analyses. Additional quality control analyses reported herein include: Matrix/Duplicate Matrix Spike (MS/DMS), and Laboratory Control Sample (LCS).

Sample Receipt

Two water samples were received for analysis at Columbia Analytical Services on 10/16/08. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

Volatile Organic Compounds by EPA Method 8260B

Initial Calibration (ICAL) Exceptions:

The primary evaluation criterion was exceeded for Dichlorodifluoromethane and Trichlorofluoromethane in ICAL ID 7782. In accordance with CAS standard operating procedures, the alternative evaluation specified in the EPA method was performed using the mean Relative Standard Deviation (RSD) of all analytes in the calibration. The result of the mean RSD calculation was 7.9%. The calibration meets the alternative evaluation criteria. Note that CAS/Kelso policy does not allow the use of averaging if any analyte in the ICAL exceeds 30% RSD.

Continuing Calibration Verification (CCV) Exceptions:

The CAS control criterion for 1,2-Dibromo-3-chloropropane was not met in CCV J:\MS18\1027F003.D. In accordance with CAS standard operating procedures, an MRL check standard containing the analyte of concern was analyzed each day of analysis. The MRL check standard verifies instrument sensitivity was adequate to detect the analyte at the MRL on the day of analysis. Because the sensitivity was shown to be adequate to detect the compound in question, and the field samples analyzed in this sequence did not contain the analyte in question, the data quality has not been significantly affected. No further corrective action was feasible.

Lab Control Sample Exceptions:

The advisory criterion was exceeded for cis-1,3-Dichloropropene in Laboratory Control Sample (LCS) KWG0811472-3. As per the CAS/Kelso Standard Operating Procedure (SOP) for this method, this compound is not included in the subset of analytes used to control the analysis. The recovery information reported for this analyte is for advisory purposes only (i.e. to provide additional detail related to the performance of each individual compound). No further corrective action was required.

No other anomalies associated with the analysis of these samples were observed.

1,4-Dioxane by EPA Method 8270C

No anomalies associated with the analysis of these samples were observed.

Approved by

Date

11/20/08

Chain of Custody Documentation



CHAIN OF CUSTODY

1317 South 13th Ave. • Kelso, WA 98626 • (360) 577-7222 • (800) 695-7222x07 • FAX (360) 636-1068

SR#: Y0810178

PAGE 1 OF 1 COC # _____

PROJECT NAME: <u>Kuhlman Electric</u> PROJECT NUMBER: _____ PROJECT MANAGER: <u>ROBERT MARTIN</u> COMPANY ADDRESS: <u>MARTIN & SLAGE</u> CITY/STATE/ZIP: <u>BLAKE MOUNTAIN NC</u> E-MAIL ADDRESS: _____ PHONE # _____ FAX# _____ SAMPLER'S SIGNATURE: <u>Charles O. M. Peel</u> DATE: _____ TIME: _____ LAB I.D.: _____ MATRIX: _____	NUMBER OF CONTAINERS 5 5 1	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:5%;">SAMPLE I.D.</th> <th style="width:10%;">DATE</th> <th style="width:10%;">TIME</th> <th style="width:10%;">LAB I.D.</th> <th style="width:10%;">MATRIX</th> <th style="width:10%;">REMARKS</th> </tr> <tr> <td>CSW-WA-1-029</td> <td>10/14/08</td> <td>0836</td> <td></td> <td>W S</td> <td>X <i>(Handwritten: 1/4 Dioxane by E2051M)</i></td> </tr> <tr> <td>CSW-Duplicate</td> <td>10/14/08</td> <td>—</td> <td></td> <td>W S</td> <td>X</td> </tr> <tr> <td>TRIP BLANK</td> <td>—</td> <td>—</td> <td></td> <td>W I</td> <td></td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>	SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	REMARKS	CSW-WA-1-029	10/14/08	0836		W S	X <i>(Handwritten: 1/4 Dioxane by E2051M)</i>	CSW-Duplicate	10/14/08	—		W S	X	TRIP BLANK	—	—		W I																																																																																																																				SEMI-VOLATILE ORGANICS BY GC/MS <input type="checkbox"/> 625 <input type="checkbox"/> 8270 <input type="checkbox"/> 8270LL <input type="checkbox"/> Volatile Organics <input checked="" type="checkbox"/> 8260 <input type="checkbox"/> Hydrocarbons (see below) <input type="checkbox"/> BTEX <input type="checkbox"/> Gas <input type="checkbox"/> Fuel Fingerprint (FIO) <input type="checkbox"/> Oil <input type="checkbox"/> Oil & Grease/TPH <input type="checkbox"/> 1664 HEM <input type="checkbox"/> PCB's <input type="checkbox"/> Aroclors <input type="checkbox"/> Congeners <input type="checkbox"/> Pesticides/Herbicides <input type="checkbox"/> 608 <input type="checkbox"/> 8081A <input type="checkbox"/> 8141A <input type="checkbox"/> Chlorophenolics - 8151M <input type="checkbox"/> 8151A <input type="checkbox"/> PAHS <input type="checkbox"/> 8310 <input type="checkbox"/> SIM <input type="checkbox"/> Metals, Total or Dissolved (See list below) <input type="checkbox"/> PCP <input type="checkbox"/> Hex-Chrom <input type="checkbox"/> Cyanide <input type="checkbox"/> PH Cond. Cl. SO ₄ <input type="checkbox"/> PO ₄ <input type="checkbox"/> F. NO ₂ <input type="checkbox"/> NO ₃ <input type="checkbox"/> BOD <input type="checkbox"/> TSS <input type="checkbox"/> TDS (circle) <input type="checkbox"/> NH ₃ -N <input type="checkbox"/> COD <input type="checkbox"/> Total-P <input type="checkbox"/> TKN <input type="checkbox"/> TOC <input type="checkbox"/> DOC (circle) <input type="checkbox"/> NO ₂ +NO ₃ <input type="checkbox"/> TOX 9020 <input type="checkbox"/> AOX 1650 <input type="checkbox"/> 506	INVOICE INFORMATION P.O. # _____ Bill To: <u>BORG WARNER</u> TURNAROUND REQUIREMENTS <input checked="" type="checkbox"/> 24 hr. <input type="checkbox"/> 48 hr. <input type="checkbox"/> 5 Day <input checked="" type="checkbox"/> Standard (10-15 working days) <input type="checkbox"/> Provide FAX Results Requested Report Date _____	RECEIVED BY: <u>[Signature]</u> Date/Time: <u>10/11/08 9:30</u> Signature: _____ Date/Time: _____ Printed Name: <u>Bob Tobin</u> Firm: _____
SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	REMARKS																																																																																																																																										
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REPORT REQUIREMENTS <input type="checkbox"/> I. Routine Report: Method Blank, Surrogate, as required <input checked="" type="checkbox"/> II. Report Dup., MS, MSD as required <input type="checkbox"/> III. Data Validation Report (includes all raw data) <input type="checkbox"/> IV. CLP Deliverable Report <input type="checkbox"/> V. EDD		SPECIAL INSTRUCTIONS/COMMENTS: <u>R260B - Kuhlman list</u> <u>1,4 Dioxane - send O.Sy/L Report limit</u>			RECEIVED BY: _____ Signature: _____ Date/Time: _____ Printed Name: _____ Firm: _____																																																																																																																																										

Columbia Analytical Services, Inc.
Cooler Receipt and Preservation Form

PC G.S

Client / Project: Kuhlman Electric Service Request K08 10178
 Received: 10/16/08 Opened: 10/16/08 By: KA

Samples were received via? US Mail Fed Ex UPS DHL GH GS PDX Courier Hand Delivered
 Samples were received in: (circle) Cooler Box Envelope Other NA
 Were custody seals on coolers? NA Y N If yes, how many and where? _____
 If present, were custody seals intact? Y N If present, were they signed and dated? Y N
 Is shipper's air-bill filed? If not, record air-bill number: _____ NA Y N

Temperature of cooler(s) upon receipt (°C): 1.4C
 Temperature Blank (°C): 5.3C
 If applicable, list Chain of Custody Numbers: NA

Packing material used. Inserts Buggies Bubble Wrap Get Packs Wet Ice Sleeves Other
 Were custody papers properly filled out (ink, signed, etc.)? NA Y N
 Did all bottles arrive in good condition (unbroken)? *Indicate in the table below.* NA Y N
 Were all sample labels complete (i.e analysis, preservation, etc.)? NA Y N
 Did all sample labels and tags agree with custody papers? *Indicate in the table below* NA Y N
 Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N
 Were the pH-preserved bottles tested* received at the appropriate pH? *Indicate in the table below* NA Y N
 Were VOA vials and 1631 Mercury bottles received without headspace? *Indicate in the table below.* NA Y N
 Are CWA Microbiology samples received with >1/2 the 24hr. hold time remaining from collection? NA Y N
 Was C12/Res negative? NA Y N

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Sample ID	Bottle Count	Bottle Type	Out of Temp	Head-space	Broken	pH	Reagent	Volume added	Reagent Lot Number	Initials

Does not include all pH preserved sample aliquots received. See sample receiving SOP (SMO-GEN).
 Additional Notes, Discrepancies, & Resolutions: _____

**Volatile Organic Compounds
EPA Method 8260B**

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Chemistry Consulting Servi
 Project: Kuhlman Electric
 Sample Matrix: Water

Service Request: K0810178
 Date Collected: 10/14/2008
 Date Received: 10/16/2008

Volatile Organic Compounds

Sample Name: CSW-WA1-029
 Lab Code: K0810178-001
 Extraction Method: EPA 5030B
 Analysis Method: 8260B

Units: ug/L
 Basis: NA
 Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
Chloromethane	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
Vinyl Chloride	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
Bromomethane	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
Chloroethane	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
Trichlorofluoromethane	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
Acetone	ND	U	20	1	10/27/08	10/27/08	KWG0811472	
1,1-Dichloroethene	1.4		0.50	1	10/27/08	10/27/08	KWG0811472	
Carbon Disulfide	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
Methylene Chloride	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
trans-1,2-Dichloroethene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
1,1-Dichloroethane	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
2-Butanone (MEK)	ND	U	20	1	10/27/08	10/27/08	KWG0811472	
2,2-Dichloropropane	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
cis-1,2-Dichloroethene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
Chloroform	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
Bromochloromethane	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
1,1-Dichloropropene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
Carbon Tetrachloride	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
Benzene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
Trichloroethene (TCE)	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
1,2-Dichloropropane	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
Bromodichloromethane	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
Dibromomethane	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
2-Hexanone	ND	U	20	1	10/27/08	10/27/08	KWG0811472	
cis-1,3-Dichloropropene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	*
Toluene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
trans-1,3-Dichloropropene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
1,1,2-Trichloroethane	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	10/27/08	10/27/08	KWG0811472	
1,3-Dichloropropane	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Chemistry Consulting Servi
 Project: Kuhlman Electric
 Sample Matrix: Water

Service Request: K0810178
 Date Collected: 10/14/2008
 Date Received: 10/16/2008

Volatile Organic Compounds

Sample Name: CSW-WA1-029
 Lab Code: K0810178-001
 Extraction Method: EPA 5030B
 Analysis Method: 8260B

Units: ug/L
 Basis: NA
 Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Tetrachloroethene (PCE)	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
Dibromochloromethane	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
1,2-Dibromoethane (EDB)	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
Chlorobenzene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
Ethylbenzene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
m,p-Xylenes	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
o-Xylene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
Styrene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
Bromoform	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
Isopropylbenzene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
1,2,3-Trichloropropane	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
Bromobenzene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
n-Propylbenzene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
2-Chlorotoluene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
4-Chlorotoluene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
1,3,5-Trimethylbenzene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
tert-Butylbenzene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
1,2,4-Trimethylbenzene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
sec-Butylbenzene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
1,3-Dichlorobenzene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
4-Isopropyltoluene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
1,4-Dichlorobenzene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
n-Butylbenzene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
1,2-Dichlorobenzene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	10/27/08	10/27/08	KWG0811472	*
1,2,4-Trichlorobenzene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
1,2,3-Trichlorobenzene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
Naphthalene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
Hexachlorobutadiene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
1,3,5-Trichlorobenzene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	

* See Case Narrative

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Chemistry Consulting Servi
Project: Kuhlman Electric
Sample Matrix: Water

Service Request: K0810178
Date Collected: 10/14/2008
Date Received: 10/16/2008

Volatile Organic Compounds

Sample Name: CSW-WA1-029
Lab Code: K0810178-001

Units: ug/L
Basis: NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	90	75-120	10/27/08	Acceptable
Toluene-d8	102	80-128	10/27/08	Acceptable
4-Bromofluorobenzene	82	75-117	10/27/08	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Chemistry Consulting Servi
 Project: Kuhlman Electric
 Sample Matrix: Water

Service Request: K0810178
 Date Collected:
 Date Received: 10/16/2008

Volatile Organic Compounds

Sample Name: CSW-DUPLICATE
 Lab Code: K0810178-002
 Extraction Method: EPA 5030B
 Analysis Method: 8260B

Units: ug/L
 Basis: NA
 Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
Chloromethane	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
Vinyl Chloride	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
Bromomethane	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
Chloroethane	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
Trichlorofluoromethane	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
Acetone	ND	U	20	1	10/27/08	10/27/08	KWG0811472	
1,1-Dichloroethene	1.3		0.50	1	10/27/08	10/27/08	KWG0811472	
Carbon Disulfide	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
Methylene Chloride	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
trans-1,2-Dichloroethene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
1,1-Dichloroethane	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
2-Butanone (MEK)	ND	U	20	1	10/27/08	10/27/08	KWG0811472	
2,2-Dichloropropane	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
cis-1,2-Dichloroethene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
Chloroform	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
Bromochloromethane	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
1,1-Dichloropropene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
Carbon Tetrachloride	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
Benzene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
Trichloroethene (TCE)	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
1,2-Dichloropropane	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
Bromodichloromethane	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
Dibromomethane	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
2-Hexanone	ND	U	20	1	10/27/08	10/27/08	KWG0811472	
cis-1,3-Dichloropropene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	*
Toluene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
trans-1,3-Dichloropropene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
1,1,2-Trichloroethane	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	10/27/08	10/27/08	KWG0811472	
1,3-Dichloropropane	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Chemistry Consulting Servi
Project: Kuhlman Electric
Sample Matrix: Water

Service Request: K0810178
Date Collected:
Date Received: 10/16/2008

Volatile Organic Compounds

Sample Name: CSW-DUPLICATE
Lab Code: K0810178-002
Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Tetrachloroethene (PCE)	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
Dibromochloromethane	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
1,2-Dibromoethane (EDB)	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
Chlorobenzene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
Ethylbenzene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
m,p-Xylenes	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
o-Xylene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
Styrene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
Bromoform	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
Isopropylbenzene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
1,2,3-Trichloropropane	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
Bromobenzene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
n-Propylbenzene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
2-Chlorotoluene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
4-Chlorotoluene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
1,3,5-Trimethylbenzene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
tert-Butylbenzene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
1,2,4-Trimethylbenzene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
sec-Butylbenzene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
1,3-Dichlorobenzene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
4-Isopropyltoluene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
1,4-Dichlorobenzene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
n-Butylbenzene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
1,2-Dichlorobenzene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	10/27/08	10/27/08	KWG0811472	*
1,2,4-Trichlorobenzene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
1,2,3-Trichlorobenzene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
Naphthalene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
Hexachlorobutadiene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
1,3,5-Trichlorobenzene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	

* See Case Narrative

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Chemistry Consulting Servi
Project: Kuhlman Electric
Sample Matrix: Water

Service Request: K0810178
Date Collected:
Date Received: 10/16/2008

Volatile Organic Compounds

Sample Name: CSW-DUPLICATE
Lab Code: K0810178-002

Units: ug/L
Basis: NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	92	75-120	10/27/08	Acceptable
Toluene-d8	102	80-128	10/27/08	Acceptable
4-Bromofluorobenzene	82	75-117	10/27/08	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Chemistry Consulting Servi
 Project: Kuhlman Electric
 Sample Matrix: Water

Service Request: K0810178
 Date Collected: NA
 Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
 Lab Code: KWG0811472-4
 Extraction Method: EPA 5030B
 Analysis Method: 8260B

Units: ug/L
 Basis: NA
 Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
Chloromethane	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
Vinyl Chloride	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
Bromomethane	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
Chloroethane	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
Trichlorofluoromethane	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
Acetone	ND	U	20	1	10/27/08	10/27/08	KWG0811472	
1,1-Dichloroethene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
Carbon Disulfide	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
Methylene Chloride	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
trans-1,2-Dichloroethene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
1,1-Dichloroethane	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
2-Butanone (MEK)	ND	U	20	1	10/27/08	10/27/08	KWG0811472	
2,2-Dichloropropane	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
cis-1,2-Dichloroethene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
Chloroform	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
Bromochloromethane	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
1,1-Dichloropropene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
Carbon Tetrachloride	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
Benzene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
Trichloroethene (TCE)	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
1,2-Dichloropropane	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
Bromodichloromethane	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
Dibromomethane	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
2-Hexanone	ND	U	20	1	10/27/08	10/27/08	KWG0811472	
cis-1,3-Dichloropropene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	*
Toluene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
trans-1,3-Dichloropropene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
1,1,2-Trichloroethane	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	10/27/08	10/27/08	KWG0811472	
1,3-Dichloropropane	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Chemistry Consulting Servi
 Project: Kuhlman Electric
 Sample Matrix: Water

Service Request: K0810178
 Date Collected: NA
 Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
 Lab Code: KWG0811472-4
 Extraction Method: EPA 5030B
 Analysis Method: 8260B

Units: ug/L
 Basis: NA
 Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Tetrachloroethene (PCE)	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
Dibromochloromethane	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
1,2-Dibromoethane (EDB)	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
Chlorobenzene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
Ethylbenzene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
m,p-Xylenes	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
o-Xylene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
Styrene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
Bromoform	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
Isopropylbenzene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
1,2,3-Trichloropropane	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
Bromobenzene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
n-Propylbenzene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
2-Chlorotoluene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
4-Chlorotoluene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
1,3,5-Trimethylbenzene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
tert-Butylbenzene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
1,2,4-Trimethylbenzene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
sec-Butylbenzene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
1,3-Dichlorobenzene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
4-Isopropyltoluene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
1,4-Dichlorobenzene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
n-Butylbenzene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
1,2-Dichlorobenzene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	10/27/08	10/27/08	KWG0811472	*
1,2,4-Trichlorobenzene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
1,2,3-Trichlorobenzene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
Naphthalene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
Hexachlorobutadiene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	
1,3,5-Trichlorobenzene	ND	U	0.50	1	10/27/08	10/27/08	KWG0811472	

* See Case Narrative

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Chemistry Consulting Servi
Project: Kuhlman Electric
Sample Matrix: Water

Service Request: K0810178
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: KWG0811472-4

Units: ug/L
Basis: NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	89	75-120	10/27/08	Acceptable
Toluene-d8	100	80-128	10/27/08	Acceptable
4-Bromofluorobenzene	83	75-117	10/27/08	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Environmental Chemistry Consulting Servi
Project: Kuhlman Electric
Sample Matrix: Water

Service Request: K0810178

**Surrogate Recovery Summary
 Volatile Organic Compounds**

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: PERCENT
Level: Low

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>	<u>Sur2</u>	<u>Sur3</u>
CSW-WA1-029	K0810178-001	90	102	82
CSW-DUPLICATE	K0810178-002	92	102	82
Method Blank	KWG0811472-4	89	100	83
Batch QC	K0810166-013	90	101	82
Batch QCMS	KWG0811472-1	94	104	85
Batch QCDMS	KWG0811472-2	94	104	85
Lab Control Sample	KWG0811472-3	97	105	85

Surrogate Recovery Control Limits (%)

Sur1 = Dibromofluoromethane	75-120
Sur2 = Toluene-d8	80-128
Sur3 = 4-Bromofluorobenzene	75-117

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Environmental Chemistry Consulting Servi
Project: Kuhlman Electric
Sample Matrix: Water

Service Request: K0810178
Date Extracted: 10/27/2008
Date Analyzed: 10/27/2008

**Matrix Spike/Duplicate Matrix Spike Summary
 Volatile Organic Compounds**

Sample Name: Batch QC
Lab Code: K0810166-013
Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG0811472

Analyte Name	Sample Result	Batch QCMS KWG0811472-1 Matrix Spike			Batch QCDMS KWG0811472-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
1,1-Dichloroethene	ND	94.4	100	94	108	100	108	67-147	14	30
Benzene	ND	85.3	100	85	95.0	100	95	69-126	11	30
Trichloroethene (TCE)	ND	83.3	100	83	94.5	100	95	56-137	13	30
Toluene	ND	83.5	100	84	92.9	100	93	66-128	11	30
Chlorobenzene	ND	87.8	100	88	95.1	100	95	68-120	8	30
1,2-Dichlorobenzene	ND	82.5	100	83	86.7	100	87	67-116	5	30
Naphthalene	ND	80.3	100	80	82.1	100	82	61-137	2	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Environmental Chemistry Consulting Servi
Project: Kuhlman Electric
Sample Matrix: Water

Service Request: K0810178
Date Extracted: 10/27/2008
Date Analyzed: 10/27/2008

**Lab Control Spike Summary
Volatile Organic Compounds**

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG0811472

Lab Control Sample
KWG0811472-3
Lab Control Spike

Analyte Name	Result	Expected	%Rec	%Rec Limits
Dichlorodifluoromethane	6.34	10.0	63	21-156
Chloromethane	6.04	10.0	60	45-135
Vinyl Chloride	8.45	10.0	85	59-135
Bromomethane	9.80	10.0	98	24-144
Chloroethane	7.32	10.0	73	60-128
Trichlorofluoromethane	8.70	10.0	87	54-129
Acetone	37.7	50.0	75	53-129
1,1-Dichloroethene	8.78	10.0	88	70-136
Carbon Disulfide	13.5	20.0	68	64-129
Methylene Chloride	8.72	10.0	87	64-137
trans-1,2-Dichloroethene	8.65	10.0	87	70-121
1,1-Dichloroethane	7.58	10.0	76	72-122
2-Butanone (MEK)	37.7	50.0	75	56-137
2,2-Dichloropropane	6.21	10.0	62	48-133
cis-1,2-Dichloroethene	8.22	10.0	82	76-125
Chloroform	8.17	10.0	82	71-118
Bromochloromethane	8.21	10.0	82	72-123
1,1,1-Trichloroethane (TCA)	7.56	10.0	76	65-126
1,1-Dichloropropene	7.80	10.0	78	71-119
Carbon Tetrachloride	7.30	10.0	73	58-133
1,2-Dichloroethane (EDC)	8.20	10.0	82	69-125
Benzene	8.11	10.0	81	74-118
Trichloroethene (TCE)	8.07	10.0	81	71-122
1,2-Dichloropropane	7.52	10.0	75	73-123
Bromodichloromethane	7.52	10.0	75	72-127
Dibromomethane	7.28	10.0	73	71-124
2-Hexanone	31.0	50.0	62	44-135
cis-1,3-Dichloropropene	6.59	10.0	66 *	71-125
Toluene	8.04	10.0	80	74-117
trans-1,3-Dichloropropene	5.72	10.0	57	56-121
1,1,2-Trichloroethane	8.02	10.0	80	73-122
4-Methyl-2-pentanone (MIBK)	33.0	50.0	66	57-129
1,3-Dichloropropane	8.24	10.0	82	74-120
Tetrachloroethene (PCE)	9.19	10.0	92	65-121
Dibromochloromethane	7.45	10.0	75	67-124

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Environmental Chemistry Consulting Servi
Project: Kuhlman Electric
Sample Matrix: Water

Service Request: K0810178
Date Extracted: 10/27/2008
Date Analyzed: 10/27/2008

**Lab Control Spike Summary
 Volatile Organic Compounds**

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG0811472

Lab Control Sample
 KWG0811472-3
 Lab Control Spike

Analyte Name	Lab Control Spike			%Rec Limits
	Result	Expected	%Rec	
1,2-Dibromoethane (EDB)	8.00	10.0	80	71-120
Chlorobenzene	8.44	10.0	84	74-115
1,1,1,2-Tetrachloroethane	7.72	10.0	77	71-118
Ethylbenzene	8.50	10.0	85	71-118
m,p-Xylenes	17.1	20.0	86	73-119
o-Xylene	8.12	10.0	81	74-120
Styrene	7.92	10.0	79	75-123
Bromoform	5.83	10.0	58	57-135
Isopropylbenzene	7.53	10.0	75	65-110
1,1,2,2-Tetrachloroethane	7.14	10.0	71	63-126
1,2,3-Trichloropropane	7.52	10.0	75	67-123
Bromobenzene	8.35	10.0	84	76-111
n-Propylbenzene	7.97	10.0	80	69-122
2-Chlorotoluene	7.86	10.0	79	72-120
4-Chlorotoluene	7.66	10.0	77	70-118
1,3,5-Trimethylbenzene	7.91	10.0	79	70-120
tert-Butylbenzene	7.77	10.0	78	72-118
1,2,4-Trimethylbenzene	7.94	10.0	79	72-121
sec-Butylbenzene	7.70	10.0	77	73-130
1,3-Dichlorobenzene	8.13	10.0	81	76-110
4-Isopropyltoluene	7.63	10.0	76	67-115
1,4-Dichlorobenzene	7.97	10.0	80	74-112
n-Butylbenzene	7.81	10.0	78	62-123
1,2-Dichlorobenzene	8.10	10.0	81	75-110
1,2-Dibromo-3-chloropropane	5.75	10.0	58	49-124
1,2,4-Trichlorobenzene	8.20	10.0	82	66-115
1,2,3-Trichlorobenzene	8.66	10.0	87	64-120
Naphthalene	7.59	10.0	76	58-132
Hexachlorobutadiene	8.34	10.0	83	61-124
1,3,5-Trichlorobenzene	39.2	40.0	98	46-133

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1,4-Dioxane by GC/MS

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Chemistry Consulting Servi
Project: Kuhlman Electric
Sample Matrix: Water

Service Request: K0810178
Date Collected: 10/14/2008
Date Received: 10/16/2008

1,4-Dioxane by GC/MS

Sample Name: CSW-WA1-029
Lab Code: K0810178-001
Extraction Method: EPA 3510C
Analysis Method: 8270C SIM

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,4-Dioxane	0.75		0.50	1	10/21/08	10/29/08	KWG0811207	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Dioxane-d8	75	55-100	10/29/08	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Chemistry Consulting Servi
Project: Kuhlman Electric
Sample Matrix: Water

Service Request: K0810178
Date Collected:
Date Received: 10/16/2008

1,4-Dioxane by GC/MS

Sample Name: CSW-DUPLICATE
Lab Code: K0810178-002
Extraction Method: EPA 3510C
Analysis Method: 8270C SIM

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,4-Dioxane	0.79		0.50	1	10/21/08	10/29/08	KWG0811207	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Dioxane-d8	75	55-100	10/29/08	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Environmental Chemistry Consulting Servi
Project: Kuhlman Electric
Sample Matrix: Water

Service Request: K0810178
Date Collected: NA
Date Received: NA

1,4-Dioxane by GC/MS

Sample Name: Method Blank
Lab Code: KWG0811207-7
Extraction Method: EPA 3510C
Analysis Method: 8270C SIM

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,4-Dioxane	ND U	0.50	1	10/21/08	10/29/08	KWG0811207	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Dioxane-d8	85	55-100	10/29/08	Acceptable

Comments: _____

Client: Environmental Chemistry Consulting Servi
Project: Kuhlman Electric
Sample Matrix: Water

Service Request: K0810178

Surrogate Recovery Summary
1,4-Dioxane by GC/MS

Extraction Method: EPA 3510C
Analysis Method: 8270C SIM

Units: PERCENT
Level: Low

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>
CSW-WA1-029	K0810178-001	75
CSW-DUPLICATE	K0810178-002	75
Method Blank	KWG0811207-7	85
CSW-DUPLICATEMS	KWG0811207-1	79
CSW-DUPLICATEDMS	KWG0811207-2	80
Lab Control Sample	KWG0811207-3	80

Surrogate Recovery Control Limits (%)

Sur1 = 1,4-Dioxane-d8 55-100

Results flagged with an asterisk (*) indicate values outside control criteria.
 Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Environmental Chemistry Consulting Servi
Project: Kuhlman Electric
Sample Matrix: Water

Service Request: K0810178
Date Extracted: 10/21/2008
Date Analyzed: 10/29/2008

Matrix Spike/Duplicate Matrix Spike Summary
1,4-Dioxane by GC/MS

Sample Name: CSW-DUPLICATE
Lab Code: K0810178-002
Extraction Method: EPA 3510C
Analysis Method: 8270C SIM

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG0811207

Analyte Name	Sample Result	CSW-DUPLICATEMS KWG0811207-1 Matrix Spike			CSW-DUPLICATEDMS KWG0811207-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
1,4-Dioxane	0.79	17.0	25.0	65	17.4	25.0	66	53-105	2	30

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Results flagged with a pound (#) indicate the control criteria is not applicable.

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Environmental Chemistry Consulting Servi
Project: Kuhlman Electric
Sample Matrix: Water

Service Request: K0810178
Date Extracted: 10/21/2008
Date Analyzed: 10/29/2008

Lab Control Spike Summary
1,4-Dioxane by GC/MS

Extraction Method: EPA 3510C
Analysis Method: 8270C SIM

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG0811207

Analyte Name	Lab Control Sample KWG0811207-3 Lab Control Spike			%Rec Limits
	Result	Expected	%Rec	
1,4-Dioxane	16.7	25.0	67	56-107

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.