

March 11, 2008

Analytical Report for Service Request No: K0801349

Richard Johnson
Environmental Chemistry Consulting Services, Inc.
2525 Advance Rd.
Madison, WI 53718

RE: Kuhlman Electric


Dear Richard:

Enclosed are the results of the samples submitted to our laboratory on February 15, 2008. For your reference, these analyses have been assigned our service request number K0801349.

All analyses were performed according to our laboratory's quality assurance program. Where applicable, the methods cited conform to the Methods Update Rule (effective 4/11/2007), which relates to the use of analytical methods for the drinking water and waste water programs. The test results meet requirements of the NELAC standards. Exceptions are noted in the case narrative report where applicable. 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/lb

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cc: Robert Martin
Martin & Slagle

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.: K0801349
Project: Kuhlman Electric Date Received: 02/15/08
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: Laboratory Duplicate (DUP), Matrix/Duplicate Matrix Spike (MS/DMS), and Laboratory/Duplicate Laboratory Control Sample (LCS/DLCS).

Sample Receipt

Three water samples were received for analysis at Columbia Analytical Services on 02/15/08. 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.

PCB Aroclors by EPA Method 8082

Elevated Method Reporting Limits:

The reporting limit is elevated for Aroclors 1221, 1232, 1242, and 1248 in samples CSW-WA1-021 and CSW-Duplicate. The chromatogram indicated the presence of non-target background components. The matrix interference prevented adequate resolution of the target compounds at the reporting limit. The results are flagged to indicate the matrix interference.

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

Volatile Organic Compounds by EPA Method 8260B

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

1,4-Dioxane by EPA Method 8270C

Sample Notes and Discussion

Insufficient sample volume was received to perform a Matrix Spike/Matrix Spike Duplicate (MS/MSD). A Laboratory Control Sample/Duplicate Laboratory Control Sample (LCS/DLCS) was analyzed and reported in lieu of the MS/MSD for these samples.

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

Approved by *Neeraj Salati* Date 3/12/08

**Chain of Custody
Documentation**

**Columbia Analytical Services, Inc.
Cooler Receipt and Preservation Form**

PC greg

Client / Project: ECS Service Request K08 13419
 Received: 2/15/08 Opened: 2/15/08 By: T Sak

1. Samples were received via? US Mail Fed Ex UPS DHL GH GS PDX Courier Hand Delivered
2. Samples were received in: (circle) Cooler Box Envelope Other NA
3. Were custody seals on coolers? NA Y N If yes, how many and where? 1 front
 If present, were custody seals intact? Y N If present, were they signed and dated? Y N
4. Is shipper's air-bill filed? If not, record air-bill number: NA Y N
5. Temperature of cooler(s) upon receipt (°C): 2.6
 Temperature Blank (°C): 0.7
6. If applicable, list Chain of Custody Numbers: _____
7. Were custody papers properly filled out (ink, signed, etc.)? NA Y N
8. Packing material used. Inserts Bubble Wrap Gel Packs Wet Ice Sleeves Other _____
9. Did all bottles arrive in good condition (unbroken)? Indicate in the table below. NA Y N
10. Were all sample labels complete (i.e analysis, preservation, etc.)? Y N
11. Did all sample labels and tags agree with custody papers? Indicate in the table below Y N
12. Were the correct types of bottles used for the tests indicated? NA Y N
13. Were all of the preserved bottles received at the lab with the appropriate pH? Indicate in the table below NA Y N
14. Were VOA vials and 1631 Mercury bottles checked for absence of air bubbles? Indicate in the table below. NA Y N
15. Are CWA Microbiology samples received with >1/2 the 24hr. hold time remaining from collection? NA Y N
16. Was C12/Res negative? NA Y N

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC
<u>TBS</u>	<u>trip blank</u>		
<u>CSW78 Duplicate</u>	<u>CNS - Duplicate</u>		

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

Additional Notes, Discrepancies, & Resolutions: _____

Polychlorinated Biphenyls
PCB's
EPA Method 8082

09019

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

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

Service Request: K0801349
Date Collected: 02/12/2008
Date Received: 02/15/2008

Polychlorinated Biphenyls (PCBs)

Sample Name: CSW-WA1-021
Lab Code: K0801349-001
Extraction Method: EPA 3535
Analysis Method: 8082

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	0.020	1	02/19/08	02/22/08	KWG0801528	
Aroclor 1221	ND	U	0.040	1	02/19/08	02/22/08	KWG0801528	
Aroclor 1232	ND	U	0.020	1	02/19/08	02/22/08	KWG0801528	
Aroclor 1242	ND	U	0.020	1	02/19/08	02/22/08	KWG0801528	
Aroclor 1248	ND	Ui	0.074	1	02/19/08	02/22/08	KWG0801528	
Aroclor 1254	ND	U	0.020	1	02/19/08	02/22/08	KWG0801528	
Aroclor 1260	ND	U	0.020	1	02/19/08	02/22/08	KWG0801528	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	82	27-121	02/22/08	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

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

Service Request: K0801349
Date Collected: 02/12/2008
Date Received: 02/15/2008

Polychlorinated Biphenyls (PCBs)

Sample Name: CSW-Duplicate
Lab Code: K0801349-002
Extraction Method: EPA 3535
Analysis Method: 8082

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	0.020	1	02/19/08	02/22/08	KWG0801528	
Aroclor 1221	ND	U	0.040	1	02/19/08	02/22/08	KWG0801528	
Aroclor 1232	ND	U	0.020	1	02/19/08	02/22/08	KWG0801528	
Aroclor 1242	ND	U	0.020	1	02/19/08	02/22/08	KWG0801528	
Aroclor 1248	ND	Ui	0.091	1	02/19/08	02/22/08	KWG0801528	
Aroclor 1254	ND	U	0.020	1	02/19/08	02/22/08	KWG0801528	
Aroclor 1260	ND	U	0.020	1	02/19/08	02/22/08	KWG0801528	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	86	27-121	02/22/08	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

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

Service Request: K0801349
Date Collected: NA
Date Received: NA

Polychlorinated Biphenyls (PCBs)

Sample Name: Method Blank
Lab Code: KWG0801528-3
Extraction Method: EPA 3535
Analysis Method: 8082

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	0.020	1	02/19/08	02/22/08	KWG0801528	
Aroclor 1221	ND	U	0.039	1	02/19/08	02/22/08	KWG0801528	
Aroclor 1232	ND	U	0.020	1	02/19/08	02/22/08	KWG0801528	
Aroclor 1242	ND	U	0.020	1	02/19/08	02/22/08	KWG0801528	
Aroclor 1248	ND	U	0.020	1	02/19/08	02/22/08	KWG0801528	
Aroclor 1254	ND	U	0.020	1	02/19/08	02/22/08	KWG0801528	
Aroclor 1260	ND	U	0.020	1	02/19/08	02/22/08	KWG0801528	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	79	27-121	02/22/08	Acceptable

Comments: _____

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

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

Service Request: K0801349

Surrogate Recovery Summary
Polychlorinated Biphenyls (PCBs)

Extraction Method: EPA 3535

Analysis Method: 8082

Units: PERCENT

Level: Low

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>
CSW-WA1-021	K0801349-001	82
CSW-Duplicate	K0801349-002	86
Method Blank	KWG0801528-3	79
Lab Control Sample	KWG0801528-1	81
Duplicate Lab Control Sample	KWG0801528-2	81

Surrogate Recovery Control Limits (%)

Sur1 = Decachlorobiphenyl 27-121

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: K0801349
Date Extracted: 02/19/2008
Date Analyzed: 02/22/2008

**Lab Control Spike/Duplicate Lab Control Spike Summary
 Polychlorinated Biphenyls (PCBs)**

Extraction Method: EPA 3535
Analysis Method: 8082

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG0801528

Analyte Name	Lab Control Sample KWG0801528-1 Lab Control Spike			Duplicate Lab Control Sample KWG0801528-2 Duplicate Lab Control Spike			%Rec Limits	RPD	RPD Limit
	Result	Expected	%Rec	Result	Expected	%Rec			
Aroclor 1016	0.143	0.200	71	0.163	0.200	81	30-113	13	30
Aroclor 1260	0.145	0.200	73	0.164	0.200	82	42-111	12	30

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.

00015

**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: K0801349
 Date Collected: 02/12/2008
 Date Received: 02/15/2008

Volatile Organic Compounds

Sample Name: CSW-WA1-021
 Lab Code: K0801349-001
 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	02/16/08	02/16/08	KWG0801614	
Chloromethane	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
Vinyl Chloride	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
Bromomethane	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
Chloroethane	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
Trichlorofluoromethane	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
Acetone	ND	U	20	1	02/16/08	02/16/08	KWG0801614	
1,1-Dichloroethene	0.93		0.50	1	02/16/08	02/16/08	KWG0801614	
Carbon Disulfide	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
Methylene Chloride	ND	U	2.0	1	02/16/08	02/16/08	KWG0801614	
trans-1,2-Dichloroethene	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
1,1-Dichloroethane	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
2-Butanone (MEK)	ND	U	20	1	02/16/08	02/16/08	KWG0801614	
2,2-Dichloropropane	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
cis-1,2-Dichloroethene	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
Chloroform	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
Bromochloromethane	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
1,1-Dichloropropene	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
Carbon Tetrachloride	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
Benzene	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
Trichloroethene (TCE)	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
1,2-Dichloropropane	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
Bromodichloromethane	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
Dibromomethane	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
2-Hexanone	ND	U	20	1	02/16/08	02/16/08	KWG0801614	
cis-1,3-Dichloropropene	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
Toluene	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
trans-1,3-Dichloropropene	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
1,1,2-Trichloroethane	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	02/16/08	02/16/08	KWG0801614	
1,3-Dichloropropane	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

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

Service Request: K0801349
Date Collected: 02/12/2008
Date Received: 02/15/2008

Volatile Organic Compounds

Sample Name: CSW-WA1-021
Lab Code: K0801349-001
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	02/16/08	02/16/08	KWG0801614	
Dibromochloromethane	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	02/16/08	02/16/08	KWG0801614	
Chlorobenzene	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
Ethylbenzene	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
m,p-Xylenes	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
o-Xylene	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
Styrene	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
Bromoform	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
Isopropylbenzene	ND	U	2.0	1	02/16/08	02/16/08	KWG0801614	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
1,2,3-Trichloropropane	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
Bromobenzene	ND	U	2.0	1	02/16/08	02/16/08	KWG0801614	
n-Propylbenzene	ND	U	2.0	1	02/16/08	02/16/08	KWG0801614	
2-Chlorotoluene	ND	U	2.0	1	02/16/08	02/16/08	KWG0801614	
4-Chlorotoluene	ND	U	2.0	1	02/16/08	02/16/08	KWG0801614	
1,3,5-Trimethylbenzene	ND	U	2.0	1	02/16/08	02/16/08	KWG0801614	
tert-Butylbenzene	ND	U	2.0	1	02/16/08	02/16/08	KWG0801614	
1,2,4-Trimethylbenzene	ND	U	2.0	1	02/16/08	02/16/08	KWG0801614	
sec-Butylbenzene	ND	U	2.0	1	02/16/08	02/16/08	KWG0801614	
1,3-Dichlorobenzene	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
4-Isopropyltoluene	ND	U	2.0	1	02/16/08	02/16/08	KWG0801614	
1,4-Dichlorobenzene	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
n-Butylbenzene	ND	U	2.0	1	02/16/08	02/16/08	KWG0801614	
1,2-Dichlorobenzene	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	02/16/08	02/16/08	KWG0801614	
1,2,4-Trichlorobenzene	ND	U	2.0	1	02/16/08	02/16/08	KWG0801614	
1,2,3-Trichlorobenzene	ND	U	2.0	1	02/16/08	02/16/08	KWG0801614	
Naphthalene	ND	U	2.0	1	02/16/08	02/16/08	KWG0801614	
Hexachlorobutadiene	ND	U	2.0	1	02/16/08	02/16/08	KWG0801614	
1,3,5-Trichlorobenzene	ND	U	5.0	1	02/16/08	02/16/08	KWG0801614	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

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

Service Request: K0801349
Date Collected: 02/12/2008
Date Received: 02/15/2008

Volatile Organic Compounds

Sample Name: CSW-WA1-021
Lab Code: K0801349-001

Units: ug/L
Basis: NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	94	82-125	02/16/08	Acceptable
Toluene-d8	93	87-120	02/16/08	Acceptable
4-Bromofluorobenzene	89	73-118	02/16/08	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

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

Service Request: K0801349
 Date Collected: 02/12/2008
 Date Received: 02/15/2008

Volatile Organic Compounds

Sample Name: CSW-Duplicate
 Lab Code: K0801349-002
 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	02/16/08	02/16/08	KWG0801614	
Chloromethane	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
Vinyl Chloride	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
Bromomethane	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
Chloroethane	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
Trichlorofluoromethane	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
Acetone	ND	U	20	1	02/16/08	02/16/08	KWG0801614	
1,1-Dichloroethene	1.0		0.50	1	02/16/08	02/16/08	KWG0801614	
Carbon Disulfide	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
Methylene Chloride	ND	U	2.0	1	02/16/08	02/16/08	KWG0801614	
trans-1,2-Dichloroethene	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
1,1-Dichloroethane	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
2-Butanone (MEK)	ND	U	20	1	02/16/08	02/16/08	KWG0801614	
2,2-Dichloropropane	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
cis-1,2-Dichloroethene	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
Chloroform	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
Bromochloromethane	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
1,1-Dichloropropene	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
Carbon Tetrachloride	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
Benzene	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
Trichloroethene (TCE)	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
1,2-Dichloropropane	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
Bromodichloromethane	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
Dibromomethane	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
2-Hexanone	ND	U	20	1	02/16/08	02/16/08	KWG0801614	
cis-1,3-Dichloropropene	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
Toluene	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
trans-1,3-Dichloropropene	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
1,1,2-Trichloroethane	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	02/16/08	02/16/08	KWG0801614	
1,3-Dichloropropane	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

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

Service Request: K0801349
Date Collected: 02/12/2008
Date Received: 02/15/2008

Volatile Organic Compounds

Sample Name: CSW-Duplicate
Lab Code: K0801349-002
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	02/16/08	02/16/08	KWG0801614	
Dibromochloromethane	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	02/16/08	02/16/08	KWG0801614	
Chlorobenzene	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
Ethylbenzene	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
m,p-Xylenes	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
o-Xylene	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
Styrene	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
Bromoform	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
Isopropylbenzene	ND	U	2.0	1	02/16/08	02/16/08	KWG0801614	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
1,2,3-Trichloropropane	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
Bromobenzene	ND	U	2.0	1	02/16/08	02/16/08	KWG0801614	
n-Propylbenzene	ND	U	2.0	1	02/16/08	02/16/08	KWG0801614	
2-Chlorotoluene	ND	U	2.0	1	02/16/08	02/16/08	KWG0801614	
4-Chlorotoluene	ND	U	2.0	1	02/16/08	02/16/08	KWG0801614	
1,3,5-Trimethylbenzene	ND	U	2.0	1	02/16/08	02/16/08	KWG0801614	
tert-Butylbenzene	ND	U	2.0	1	02/16/08	02/16/08	KWG0801614	
1,2,4-Trimethylbenzene	ND	U	2.0	1	02/16/08	02/16/08	KWG0801614	
sec-Butylbenzene	ND	U	2.0	1	02/16/08	02/16/08	KWG0801614	
1,3-Dichlorobenzene	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
4-Isopropyltoluene	ND	U	2.0	1	02/16/08	02/16/08	KWG0801614	
1,4-Dichlorobenzene	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
n-Butylbenzene	ND	U	2.0	1	02/16/08	02/16/08	KWG0801614	
1,2-Dichlorobenzene	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	02/16/08	02/16/08	KWG0801614	
1,2,4-Trichlorobenzene	ND	U	2.0	1	02/16/08	02/16/08	KWG0801614	
1,2,3-Trichlorobenzene	ND	U	2.0	1	02/16/08	02/16/08	KWG0801614	
Naphthalene	ND	U	2.0	1	02/16/08	02/16/08	KWG0801614	
Hexachlorobutadiene	ND	U	2.0	1	02/16/08	02/16/08	KWG0801614	
1,3,5-Trichlorobenzene	ND	U	5.0	1	02/16/08	02/16/08	KWG0801614	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

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

Service Request: K0801349
Date Collected: 02/12/2008
Date Received: 02/15/2008

Volatile Organic Compounds

Sample Name: CSW-Duplicate
Lab Code: K0801349-002

Units: ug/L
Basis: NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	95	82-125	02/16/08	Acceptable
Toluene-d8	94	87-120	02/16/08	Acceptable
4-Bromofluorobenzene	89	73-118	02/16/08	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

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

Service Request: K0801349
 Date Collected: NA
 Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
 Lab Code: KWG0801614-4
 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	02/15/08	02/15/08	KWG0801614	
Chloromethane	ND	U	0.50	1	02/15/08	02/15/08	KWG0801614	
Vinyl Chloride	ND	U	0.50	1	02/15/08	02/15/08	KWG0801614	
Bromomethane	ND	U	0.50	1	02/15/08	02/15/08	KWG0801614	
Chloroethane	ND	U	0.50	1	02/15/08	02/15/08	KWG0801614	
Trichlorofluoromethane	ND	U	0.50	1	02/15/08	02/15/08	KWG0801614	
Acetone	ND	U	20	1	02/15/08	02/15/08	KWG0801614	
1,1-Dichloroethene	ND	U	0.50	1	02/15/08	02/15/08	KWG0801614	
Carbon Disulfide	ND	U	0.50	1	02/15/08	02/15/08	KWG0801614	
Methylene Chloride	ND	U	2.0	1	02/15/08	02/15/08	KWG0801614	
trans-1,2-Dichloroethene	ND	U	0.50	1	02/15/08	02/15/08	KWG0801614	
1,1-Dichloroethane	ND	U	0.50	1	02/15/08	02/15/08	KWG0801614	
2-Butanone (MEK)	ND	U	20	1	02/15/08	02/15/08	KWG0801614	
2,2-Dichloropropane	ND	U	0.50	1	02/15/08	02/15/08	KWG0801614	
cis-1,2-Dichloroethene	ND	U	0.50	1	02/15/08	02/15/08	KWG0801614	
Chloroform	ND	U	0.50	1	02/15/08	02/15/08	KWG0801614	
Bromochloromethane	ND	U	0.50	1	02/15/08	02/15/08	KWG0801614	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	02/15/08	02/15/08	KWG0801614	
1,1-Dichloropropene	ND	U	0.50	1	02/15/08	02/15/08	KWG0801614	
Carbon Tetrachloride	ND	U	0.50	1	02/15/08	02/15/08	KWG0801614	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	02/15/08	02/15/08	KWG0801614	
Benzene	ND	U	0.50	1	02/15/08	02/15/08	KWG0801614	
Trichloroethene (TCE)	ND	U	0.50	1	02/15/08	02/15/08	KWG0801614	
1,2-Dichloropropane	ND	U	0.50	1	02/15/08	02/15/08	KWG0801614	
Bromodichloromethane	ND	U	0.50	1	02/15/08	02/15/08	KWG0801614	
Dibromomethane	ND	U	0.50	1	02/15/08	02/15/08	KWG0801614	
2-Hexanone	ND	U	20	1	02/15/08	02/15/08	KWG0801614	
cis-1,3-Dichloropropene	ND	U	0.50	1	02/15/08	02/15/08	KWG0801614	
Toluene	ND	U	0.50	1	02/15/08	02/15/08	KWG0801614	
trans-1,3-Dichloropropene	ND	U	0.50	1	02/15/08	02/15/08	KWG0801614	
1,1,2-Trichloroethane	ND	U	0.50	1	02/15/08	02/15/08	KWG0801614	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	02/15/08	02/15/08	KWG0801614	
1,3-Dichloropropane	ND	U	0.50	1	02/15/08	02/15/08	KWG0801614	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

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

Service Request: K0801349
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: KWG0801614-4
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	02/15/08	02/15/08	KWG0801614	
Dibromochloromethane	ND	U	0.50	1	02/15/08	02/15/08	KWG0801614	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	02/15/08	02/15/08	KWG0801614	
Chlorobenzene	ND	U	0.50	1	02/15/08	02/15/08	KWG0801614	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	02/15/08	02/15/08	KWG0801614	
Ethylbenzene	ND	U	0.50	1	02/15/08	02/15/08	KWG0801614	
m,p-Xylenes	ND	U	0.50	1	02/15/08	02/15/08	KWG0801614	
o-Xylene	ND	U	0.50	1	02/15/08	02/15/08	KWG0801614	
Styrene	ND	U	0.50	1	02/15/08	02/15/08	KWG0801614	
Bromoform	ND	U	0.50	1	02/15/08	02/15/08	KWG0801614	
Isopropylbenzene	ND	U	2.0	1	02/15/08	02/15/08	KWG0801614	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	02/15/08	02/15/08	KWG0801614	
1,2,3-Trichloropropane	ND	U	0.50	1	02/15/08	02/15/08	KWG0801614	
Bromobenzene	ND	U	2.0	1	02/15/08	02/15/08	KWG0801614	
n-Propylbenzene	ND	U	2.0	1	02/15/08	02/15/08	KWG0801614	
2-Chlorotoluene	ND	U	2.0	1	02/15/08	02/15/08	KWG0801614	
4-Chlorotoluene	ND	U	2.0	1	02/15/08	02/15/08	KWG0801614	
1,3,5-Trimethylbenzene	ND	U	2.0	1	02/15/08	02/15/08	KWG0801614	
tert-Butylbenzene	ND	U	2.0	1	02/15/08	02/15/08	KWG0801614	
1,2,4-Trimethylbenzene	ND	U	2.0	1	02/15/08	02/15/08	KWG0801614	
sec-Butylbenzene	ND	U	2.0	1	02/15/08	02/15/08	KWG0801614	
1,3-Dichlorobenzene	ND	U	0.50	1	02/15/08	02/15/08	KWG0801614	
4-Isopropyltoluene	ND	U	2.0	1	02/15/08	02/15/08	KWG0801614	
1,4-Dichlorobenzene	ND	U	0.50	1	02/15/08	02/15/08	KWG0801614	
n-Butylbenzene	ND	U	2.0	1	02/15/08	02/15/08	KWG0801614	
1,2-Dichlorobenzene	ND	U	0.50	1	02/15/08	02/15/08	KWG0801614	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	02/15/08	02/15/08	KWG0801614	
1,2,4-Trichlorobenzene	ND	U	2.0	1	02/15/08	02/15/08	KWG0801614	
1,2,3-Trichlorobenzene	ND	U	2.0	1	02/15/08	02/15/08	KWG0801614	
Naphthalene	ND	U	2.0	1	02/15/08	02/15/08	KWG0801614	
Hexachlorobutadiene	ND	U	2.0	1	02/15/08	02/15/08	KWG0801614	
1,3,5-Trichlorobenzene	ND	U	5.0	1	02/15/08	02/15/08	KWG0801614	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

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

Service Request: K0801349
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: KWG0801614-4

Units: ug/L
Basis: NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	92	82-125	02/15/08	Acceptable
Toluene-d8	98	87-120	02/15/08	Acceptable
4-Bromofluorobenzene	89	73-118	02/15/08	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

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

Service Request: K0801349

**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-WA1-021	K0801349-001	94	93	89
CSW-Duplicate	K0801349-002	95	94	89
Method Blank	KWG0801614-4	92	98	89
Batch QC	K0801297-001	92	95	89
Batch QCMS	KWG0801614-1	93	96	96
Batch QCDMS	KWG0801614-2	92	96	97
Lab Control Sample	KWG0801614-3	92	96	95

Surrogate Recovery Control Limits (%)

Sur1 = Dibromofluoromethane	82-125
Sur2 = Toluene-d8	87-120
Sur3 = 4-Bromofluorobenzene	73-118

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: K0801349
Date Extracted: 02/15/2008
Date Analyzed: 02/15/2008

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

Sample Name: Batch QC
Lab Code: K0801297-001
Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG0801614

Analyte Name	Sample Result	Batch QCMS KWG0801614-1 Matrix Spike			Batch QCDMS KWG0801614-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
1,1-Dichloroethene	ND	13.1	10.0	131	12.3	10.0	123	66-142	7	30
Benzene	ND	10.3	10.0	103	9.85	10.0	99	71-126	4	30
Trichloroethene (TCE)	ND	10.6	10.0	106	10.0	10.0	100	61-130	6	30
Toluene	ND	10.1	10.0	101	9.57	10.0	96	68-125	5	30
Chlorobenzene	ND	9.58	10.0	96	9.31	10.0	93	74-122	3	30
1,2-Dichlorobenzene	ND	9.42	10.0	94	9.08	10.0	91	74-116	4	30
Naphthalene	ND	10.3	10.0	103	10.5	10.0	105	50-141	1	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.

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

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

Service Request: K0801349
 Date Extracted: 02/15/2008
 Date Analyzed: 02/15/2008

Lab Control Spike Summary
 Volatile Organic Compounds

Extraction Method: EPA 5030B
 Analysis Method: 8260B

Units: ug/L
 Basis: NA
 Level: Low
 Extraction Lot: KWG0801614

Lab Control Sample
 KWG0801614-3
 Lab Control Spike

Analyte Name	Result	Expected	%Rec	%Rec Limits
Dichlorodifluoromethane	9.96	10.0	100	24-160
Chloromethane	8.98	10.0	90	41-141
Vinyl Chloride	9.75	10.0	98	60-139
Bromomethane	7.11	10.0	71	32-153
Chloroethane	9.85	10.0	99	66-134
Trichlorofluoromethane	9.90	10.0	99	54-133
Acetone	50.7	50.0	101	57-133
1,1-Dichloroethene	12.6	10.0	126	72-127
Carbon Disulfide	21.2	20.0	106	66-134
Methylene Chloride	11.1	10.0	111	68-141
trans-1,2-Dichloroethene	10.3	10.0	103	73-118
1,1-Dichloroethane	10.4	10.0	104	74-119
2-Butanone (MEK)	51.5	50.0	103	64-131
2,2-Dichloropropane	10.5	10.0	105	28-154
cis-1,2-Dichloroethene	10.3	10.0	103	78-121
Chloroform	10.5	10.0	105	73-117
Bromochloromethane	11.1	10.0	111	76-119
1,1,1-Trichloroethane (TCA)	10.9	10.0	109	65-130
1,1-Dichloropropene	10.2	10.0	102	71-121
Carbon Tetrachloride	11.0	10.0	110	66-139
1,2-Dichloroethane (EDC)	10.5	10.0	105	67-125
Benzene	10.2	10.0	102	74-116
Trichloroethene (TCE)	10.4	10.0	104	73-117
1,2-Dichloropropane	10.2	10.0	102	73-116
Bromodichloromethane	10.9	10.0	109	76-130
Dibromomethane	11.0	10.0	110	73-118
2-Hexanone	55.2	50.0	110	49-133
cis-1,3-Dichloropropene	10.6	10.0	106	66-127
Toluene	9.84	10.0	98	71-117
trans-1,3-Dichloropropene	9.95	10.0	100	51-127
1,1,2-Trichloroethane	10.5	10.0	105	78-118
4-Methyl-2-pentanone (MIBK)	51.5	50.0	103	57-132
1,3-Dichloropropane	10.2	10.0	102	77-116
Tetrachloroethene (PCE)	10.0	10.0	100	72-117
Dibromochloromethane	11.0	10.0	110	76-125

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.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

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

Service Request: K0801349
Date Extracted: 02/15/2008
Date Analyzed: 02/15/2008

**Lab Control Spike Summary
 Volatile Organic Compounds**

Extraction Method: EPA 5030B
Analysis Method: 8260B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG0801614

Analyte Name	Lab Control Sample KWG0801614-3 Lab Control Spike			%Rec Limits
	Result	Expected	%Rec	
1,2-Dibromoethane (EDB)	10.4	10.0	104	75-117
Chlorobenzene	9.21	10.0	92	81-112
1,1,1,2-Tetrachloroethane	10.4	10.0	104	76-121
Ethylbenzene	9.89	10.0	99	77-119
m,p-Xylenes	20.0	20.0	100	76-123
o-Xylene	9.83	10.0	98	75-118
Styrene	10.4	10.0	104	80-125
Bromoform	11.6	10.0	116	65-133
Isopropylbenzene	9.22	10.0	92	66-107
1,1,2,2-Tetrachloroethane	10.5	10.0	105	68-119
1,2,3-Trichloropropane	10.8	10.0	108	73-117
Bromobenzene	9.36	10.0	94	77-107
n-Propylbenzene	9.75	10.0	98	70-122
2-Chlorotoluene	9.89	10.0	99	71-121
4-Chlorotoluene	9.65	10.0	97	69-121
1,3,5-Trimethylbenzene	9.66	10.0	97	71-121
tert-Butylbenzene	9.68	10.0	97	71-118
1,2,4-Trimethylbenzene	9.86	10.0	99	73-122
sec-Butylbenzene	10.4	10.0	104	70-131
1,3-Dichlorobenzene	9.17	10.0	92	79-109
4-Isopropyltoluene	9.32	10.0	93	62-124
1,4-Dichlorobenzene	9.02	10.0	90	77-109
n-Butylbenzene	8.62	10.0	86	57-130
1,2-Dichlorobenzene	9.33	10.0	93	80-108
1,2-Dibromo-3-chloropropane	9.60	10.0	96	54-123
1,2,4-Trichlorobenzene	8.96	10.0	90	64-120
1,2,3-Trichlorobenzene	9.27	10.0	93	65-118
Naphthalene	10.6	10.0	106	49-135
Hexachlorobutadiene	8.63	10.0	86	57-132
1,3,5-Trichlorobenzene	36.9	40.0	92	51-138

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.

1,4-Dioxane by GC/MS

09039

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

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

Service Request: K0801349
Date Collected: 02/12/2008
Date Received: 02/15/2008

1,4-Dioxane by GC/MS

Sample Name: CSW-WA1-021
Lab Code: K0801349-001
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	0.77		0.50	1	02/19/08	03/07/08	KWG0801558	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Dioxane-d8	61	31-117	03/07/08	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

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

Service Request: K0801349
Date Collected: 02/12/2008
Date Received: 02/15/2008

1,4-Dioxane by GC/MS

Sample Name: CSW-Duplicate
Lab Code: K0801349-002
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	0.85		0.50	1	02/19/08	03/07/08	KWG0801558	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Dioxane-d8	67	31-117	03/07/08	Acceptable

Comments: _____

09032

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

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

Service Request: K0801349
Date Collected: NA
Date Received: NA

1,4-Dioxane by GC/MS

Sample Name: Method Blank
Lab Code: KWG0801558-3
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	02/19/08	03/07/08	KWG0801558	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Dioxane-d8	63	31-117	03/07/08	Acceptable

Comments: _____

09033

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

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

Service Request: K0801349

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-WA1-021	K0801349-001	61
CSW-Duplicate	K0801349-002	67
Method Blank	KWG0801558-3	63
Lab Control Sample	KWG0801558-1	65
Duplicate Lab Control Sample	KWG0801558-2	64

Surrogate Recovery Control Limits (%)

Sur1 = 1,4-Dioxane-d8 31-117

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: K0801349
Date Extracted: 02/19/2008
Date Analyzed: 03/07/2008

**Lab Control Spike/Duplicate 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: KWG0801558

Analyte Name	Lab Control Sample KWG0801558-1 Lab Control Spike			Duplicate Lab Control Sample KWG0801558-2 Duplicate Lab Control Spike			%Rec Limits	RPD	RPD Limit
	Result	Expected	%Rec	Result	Expected	%Rec			
1,4-Dioxane	17.2	25.0	69	17.1	25.0	68	46-97	1	30

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.