

December 12, 2008

Analytical Report for Service Request No: K0811162

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 November 14, 2008. For your reference, these analyses have been assigned our service request number K0811162.

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/lb

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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 POL 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	1400
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

Client:

Environmental Chemistry Consulting Services, Inc. Service Request No.:

K0811162

Project:

Kuhlman Electric

Date Received:

11/14/08

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

Three water samples were received for analysis at Columbia Analytical Services on 11/14/08. 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.

Lab Control Sample Exceptions:

The advisory criterion was exceeded for Tetrachloroethene (PCE) and Trichlorofluoromethane in Laboratory Control Sample (LCS) KWG0812662-3. As per the CAS/Kelso Standard Operating Procedure (SOP) for this method, these compounds are not included in the subset of analytes used to control the analysis. The recovery information reported for these analytes 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 12/12/08

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Chain of Custody Documentation

Columbia Columbia Analytical Services

CHAIN OF CUSTODY

SR#: 60811167 # 000

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

OF

Circle which metals are to be analyzed: Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Molecules: Ak CA WII NO SPECIAL INSTRUCTIONS/COMMENTS: CATAL CATAL CLAR Mean Cr Cu Fe Pb Mg Marsh C	TWATER WATER WAT	WATER TIME
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Signature

Date/Time

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Date/Time

Signature

RCOC #1 06/08

Columbia Analytical Services, Inc. Cooler Receipt and Preservation Form

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Client / Project <u>; ECC</u>	Ś		S	ervice Re	quest <i>K0</i>	8 ///	162			9	
Received: 1114/08	Opened:	11/14/04	By:		4						
Samples were received Samples were received	n: (circle) Cooler	7%	Envelope	e Ota	her	PDX	Courie		and Del NA	ivered	
3. Were <u>custody seals</u> on c		Y () Y N	•		ere they si				Y	N	
If present, were custody Is shipper's air-bill filed			11 }		ore they st	•		NA	Ń	N	
7. Is shipper 5 an one med	. If not, record an one	***	10 10 10 10 10 10 10 10 10 10 10 10 10 1								
5. Temperature of cooler	(s) upon receipt (°C):	0.0	and the second second		· •						
Temperature Blank (°C	:	1.7	- CANTON TO STATE OF THE STATE								
6. If applicable, list Chain	-									-	
7. Packing material used	Inserts Buggies	Babble Wrap) (Gel Pucks	Wet Ice	Sleeves) Other_					
3. Were custody papers pro								NA	(Y)	Ν	
Did all bottles arrive in				ble below.				NA	0	И	
0. Were all sample labels						(ii		NA	8	N	
1. Did all sample labels ar)W			NA	\otimes	N	
2. Were appropriate bot								NA	3	N	
3. Were the pH-preserved								0	Y	Ν	
4. Were VOA vials and 16			and the second					NA	\bigcirc	Ν	
5. Are CWA Microbiolog	y samples received wi	ith $>1/2$ the $24h$	r. hold tir	ne remain	ing from	collection	1?	QA.	Y	Ν	
6. Was C12/Res negative?								NA	Y	N	
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Volatile Organic Compounds EPA Method 8260B

Analytical Results

Client: Environmental Chemistry Consulting Servi

Project: Kuhlman Electric

Sample Matrix: Water Service Request: K0811162 **Date Collected:** 11/12/2008

Date Received: 11/14/2008

Volatile Organic Compounds

Sample Name: Lab Code:

CSW-WA1-030

K0811162-001

Extraction Method: Analysis Method:

EPA 5030B

8260B

			•	Dilution	Date	Date	Extraction	
Analyte Name	Result	Q	MRL	Factor	Extracted	Analyzed	Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
Chloromethane	ND		0.50	1	11/24/08	11/24/08	KWG0812662	
Vinyl Chloride	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
Bromomethane	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
Chloroethane	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
Trichlorofluoromethane	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	*
Acetone	ND	U	20	1	11/24/08	11/24/08	KWG0812662	
1,1-Dichloroethene	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
Carbon Disulfide	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
Methylene Chloride	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
trans-1,2-Dichloroethene	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
1,1-Dichloroethane	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
2-Butanone (MEK)	ND	U	20	1	11/24/08	11/24/08	KWG0812662	
2,2-Dichloropropane	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
cis-1,2-Dichloroethene	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
Chloroform	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
Bromochloromethane	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
1,1-Dichloropropene	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
Carbon Tetrachloride	ND		0.50	1	11/24/08	11/24/08	KWG0812662	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
Benzene	ND		0.50	1	11/24/08	11/24/08	KWG0812662	
Trichloroethene (TCE)	ND		0.50	1	11/24/08	11/24/08	KWG0812662	
1,2-Dichloropropane	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
Bromodichloromethane	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
Dibromomethane		U	0.50	1 .	11/24/08	11/24/08	KWG0812662	
2-Hexanone	ND	U	20	1	11/24/08	11/24/08	KWG0812662	
cis-1,3-Dichloropropene	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
Toluene	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
trans-1,3-Dichloropropene	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
1,1,2-Trichloroethane	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
4-Methyl-2-pentanone (MIBK)	ND		20	1	11/24/08	11/24/08	KWG0812662	
1,3-Dichloropropane	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	,

Comments:

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Analytical Results

Client:

Environmental Chemistry Consulting Servi

Project:

Kuhlman Electric

Sample Matrix:

Water

Service Request: K0811162

Date Collected: 11/12/2008 Date Received: 11/14/2008

Volatile Organic Compounds

Sample Name:

CSW-WA1-030

Lab Code:

K0811162-001

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	11/24/08	11/24/08	KWG0812662	*
Dibromochloromethane	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
1,2-Dibromoethane (EDB)	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
Chlorobenzene	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
1,1,1,2-Tetrachloroethane	ND		0.50	1	11/24/08	11/24/08	KWG0812662	
Ethylbenzene	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
m,p-Xylenes	ND		0.50	1	11/24/08	11/24/08	KWG0812662	
o-Xylene	ND		0.50	1	11/24/08	11/24/08	KWG0812662	
Styrene	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
Bromoform	ND	U	0,50	. 1	11/24/08	11/24/08	KWG0812662	
Isopropylbenzene	ND		0.50	1	11/24/08	11/24/08	KWG0812662	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
1,2,3-Trichloropropane	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
Bromobenzene	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
n-Propylbenzene	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
2-Chlorotoluene	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
4-Chlorotoluene	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	•
1,3,5-Trimethylbenzene	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
tert-Butylbenzene	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
1,2,4-Trimethylbenzene	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
sec-Butylbenzene	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
1,3-Dichlorobenzene	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
4-Isopropyltoluene	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
1,4-Dichlorobenzene	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
n-Butylbenzene	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
1,2-Dichlorobenzene	ND		0.50	1	11/24/08	11/24/08	KWG0812662	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	11/24/08	11/24/08	KWG0812662	
1,2,4-Trichlorobenzene	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
1,2,3-Trichlorobenzene		U	0.50	1	11/24/08	11/24/08	KWG0812662	•
Naphthalene	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
Hexachlorobutadiene	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
1,3,5-Trichlorobenzene	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	

^{*} See Case Narrative

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Comments:

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Form 1A - Organic

SuperSet Reference:

Analytical Results

Client:

Environmental Chemistry Consulting Servi

Project:

Kuhlman Electric

Sample Matrix:

Water

Service Requests K0811162 ·

Date Collected: 11/12/2008

Date Received: 11/14/2008

Volatile Organic Compounds

Sample Name: Lab Code:

CSW-WA1-030

K0811162-001

Units: ug/L

Basis: NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note	
Dibromofluoromethane	100	75-120	11/24/08	Acceptable	
Toluene-d8	96	80-128	11/24/08	Acceptable	•
4-Bromofluorobenzene	79	75-117	11/24/08	Acceptable	

Comments:

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Form 1A - Organic

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SuperSet Reference: RR96658

Analytical Results

Client:

Environmental Chemistry Consulting Servi

Project:

Kuhlman Electric

Sample Matrix:

Water

Service Request: K0811162

Date Collected: 11/12/2008

Date Received: 11/14/2008

Volatile Organic Compounds

Sample Name:

CSW-Duplicate

Lab Code:

K0811162-002

Extraction Method:

EPA 5030B

Analysis Method:

8260B

Units: ug/L Basis: NA

Level: Low

Analyte Name	Result	Q	MŘĹ	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
Chloromethane	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
Vinyl Chloride	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
Bromomethane	ND		0.50	1	11/24/08	11/24/08	KWG0812662	
Chloroethane	ND		0.50	1	11/24/08	11/24/08	KWG0812662	
Trichlorofluoromethane	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	*
Acetone	ND		20	1	11/24/08	11/24/08	KWG0812662	
1,1-Dichloroethene	ND	-	0.50	1	11/24/08	11/24/08	KWG0812662	
Carbon Disulfide	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
Methylene Chloride	ND		0.50	1	11/24/08	11/24/08	KWG0812662	
trans-1,2-Dichloroethene	ND		0.50	1	11/24/08	11/24/08	KWG0812662	
1,1-Dichloroethane	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
2-Butanone (MEK)	ND		20	1	11/24/08	11/24/08	KWG0812662	
2,2-Dichloropropane	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
cis-1,2-Dichloroethene	ND	U	€ 0.50	1	11/24/08	11/24/08	KWG0812662	
Chloroform	ND		0.50	1	11/24/08	11/24/08	KWG0812662	
Bromochloromethane		U	0.50	1	11/24/08	11/24/08	KWG0812662	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
1,1-Dichloropropene	ND		0.50	1	11/24/08	11/24/08	KWG0812662	
Carbon Tetrachloride	ND		0.50	1	11/24/08	11/24/08	KWG0812662	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
Benzene	ND		0.50	1	11/24/08	11/24/08	KWG0812662	
Trichloroethene (TCE)	ND		0.50	1	11/24/08	11/24/08	KWG0812662	
1,2-Dichloropropane	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
Bromodichloromethane	ND		0.50	1	11/24/08	11/24/08	KWG0812662	
Dibromomethane	ND		0.50	, 1	11/24/08	11/24/08	KWG0812662	
2-Hexanone	ND	U	20	1	11/24/08	11/24/08	KWG0812662	
cis-1,3-Dichloropropene	ND		0.50	1	11/24/08	11/24/08	KWG0812662	
Toluene	ND		0.50	1	11/24/08	11/24/08	KWG0812662	
trans-1,3-Dichloropropene	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
1,1,2-Trichloroethane	ND		0.50	1	11/24/08	11/24/08	KWG0812662	
4-Methyl-2-pentanone (MIBK)	ND		20	1	11/24/08	11/24/08	KWG0812662	
1,3-Dichloropropane	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	

Comments:

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Form 1A - Organic

SuperSet Reference:

Page I of

Analytical Results

Client:

Environmental Chemistry Consulting Servi

Project:

Kuhlman Electric

Sample Matrix:

Water

Service Request: K0811162

Date Collected: 11/12/2008 **Date Received:** 11/14/2008

Volatile Organic Compounds

Sample Name: Lab Code:

CSW-Duplicate K0811162-002

Extraction Method:

EPA 5030B

Analysis Method:

8260B

Units: ug/L Basis: NA

Level: Low

Analyte Name	Result	0	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Tetrachloroethene (PCE)	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	*
Dibromochloromethane	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
1,2-Dibromoethane (EDB)	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
Chlorobenzene	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
Ethylbenzene	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
m,p-Xylenes	ND		0.50	1	11/24/08	11/24/08	KWG0812662	
o-Xylene	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
Styrene	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
Bromoform	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
Isopropylbenzene	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
1,2,3-Trichloropropane	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
Bromobenzene	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
n-Propylbenzene	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
2-Chlorotoluene	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
4-Chlorotoluene	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
1,3,5-Trimethylbenzene	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
tert-Butylbenzene		U	0.50	1	11/24/08	11/24/08	KWG0812662	
1,2,4-Trimethylbenzene	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
sec-Butylbenzene	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
1,3-Dichlorobenzene	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
4-Isopropyltoluene	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
1,4-Dichlorobenzene	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
n-Butylbenzene	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
1,2-Dichlorobenzene	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	11/24/08	11/24/08	KWG0812662	
1,2,4-Trichlorobenzene	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
1,2,3-Trichlorobenzene	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
Naphthalene	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
Hexachlorobutadiene	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
1,3,5-Trichlorobenzene	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	

^{*} See Case Narrative

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Comments:

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Form 1A - Organic



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Analytical Results

Client:

Environmental Chemistry Consulting Servi

Project:

Kuhlman Electric

Sample Matrix:

Water .

Service Request: K0811162

Date Collected: 11/12/2008 **Date Received:** 11/14/2008

Volatile Organic Compounds

Sample Name:

CSW-Duplicate

Units: ug/L

Lab Code:

K0811162-002

Basis: NA

		. 5. 4	•		
Surrogate Name	%Rec	Control Limits	Date Analyzed	Note	
Dibromofluoromethane	102	75-120	11/24/08	Acceptable	
Toluene-d8	95	80-128	11/24/08	Acceptable	
4-Bromofluorobenzene	79	75-117	11/24/08	Acceptable	

Comments:

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Form 1A - Organic

SuperSet Reference: RR96658

Analytical Results

Client:

Environmental Chemistry Consulting Servi

Project:

Kuhlman Electric

Sample Matrix:

Water

Service Request: K0811162

Date Collected: 11/12/2008 **Date Received:** 11/14/2008

Volatile Organic Compounds

Sample Name: Lab Code:

Trip Blank K0811162-003

Extraction Method:

EPA 5030B

Analysis Method:

8260B

Units: ug/L Basis: NA

Level: Low

Analyte Name	Result	0	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND		0.50	1	11/24/08	11/24/08	KWG0812662	Note
Chloromethane	ND		0.50	1	11/24/08	11/24/08	KWG0812662	
Vinyl Chloride	ND		0.50	1	11/24/08	11/24/08	KWG0812662	
Bromomethane	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
Chloroethane	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
Trichlorofluoromethane	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	*
Acetone	ND	U	20	1	11/24/08	11/24/08	KWG0812662	***************************************
1,1-Dichloroethene	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
Carbon Disulfide	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
Methylene Chloride	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
trans-1,2-Dichloroethene	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
1,1-Dichloroethane	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
2-Butanone (MEK)	ND	U	20	1	11/24/08	11/24/08	KWG0812662	
2,2-Dichloropropane	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
cis-1,2-Dichloroethene	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
Chloroform	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
Bromochloromethane	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
1,1-Dichloropropene	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
Carbon Tetrachloride	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
Benzene	ND	U	0.50	1 .	11/24/08	11/24/08	KWG0812662	
Trichloroethene (TCE)	ND		0.50	1	11/24/08	11/24/08	KWG0812662	
1,2-Dichloropropane	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
Bromodichloromethane	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
Dibromomethane	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
2-Hexanone	ND	U	20	1	11/24/08	11/24/08	KWG0812662	
cis-1,3-Dichloropropene	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
Toluene	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
trans-1,3-Dichloropropene	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
1,1,2-Trichloroethane	ND		0.50	1	11/24/08	11/24/08	KWG0812662	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	11/24/08	11/24/08	KWG0812662	
1,3-Dichloropropane	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	

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Form 1A - Organic

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Analytical Results

Client:

Environmental Chemistry Consulting Servi

Project:

Kuhlman Electric

Sample Matrix:

Water

Service Request: K0811162

Date Collected: 11/12/2008

Date Received: 11/14/2008

Volatile Organic Compounds

Sample Name:

Trip Blank

Lab Code:

K0811162-003

Extraction Method:

EPA 5030B

Analysis Method:

8260B

Units: ug/L Basis: NA

Level: Low

Amaluta Maura	D 11 0	2505	Dilution	Date	Date	Extraction	
Analyte Name	Result Q	MRL	Factor	Extracted	Analyzed	Lot	Note
Tetrachloroethene (PCE)	ND U	0.50	1	11/24/08	11/24/08	KWG0812662	*
Dibromochloromethane	ND U	0.50	1	11/24/08	11/24/08	KWG0812662	
1,2-Dibromoethane (EDB)	ND U	0.50	1	11/24/08	11/24/08	KWG0812662	
Chlorobenzene	ND U	0.50	1	11/24/08	11/24/08	KWG0812662	
1,1,1,2-Tetrachloroethane	ND U	0.50	1	11/24/08	11/24/08	KWG0812662	
Ethylbenzene	ND U	0.50	1	11/24/08	11/24/08	KWG0812662	
m,p-Xylenes	ND U	0.50	1	11/24/08	11/24/08	KWG0812662	
o-Xylene	ND U	0.50	1	11/24/08	11/24/08	KWG0812662	
Styrene	ND U	0.50	1	11/24/08	11/24/08	KWG0812662	
Bromoform	ND U	0.50	1	11/24/08	11/24/08	KWG0812662	
Isopropylbenzene	ND U	0.50	1	11/24/08	11/24/08	KWG0812662	
1,1,2,2-Tetrachloroethane	ND U	0.50	. 1	11/24/08	11/24/08	KWG0812662	
1,2,3-Trichloropropane	ND U	0.50	. 1	11/24/08	11/24/08	KWG0812662	
Bromobenzene	ND U	0.50	1	11/24/08	11/24/08	KWG0812662	
n-Propylbenzene	ND U	0.50	1	11/24/08	11/24/08	KWG0812662	
2-Chlorotoluene	ND U	0.50	1	11/24/08	11/24/08	KWG0812662	MARINE PLAY A VIEW AND A SAA A
4-Chlorotoluene	ND U	0.50	1	11/24/08	11/24/08	KWG0812662	
1,3,5-Trimethylbenzene	ND U	0.50	1	11/24/08	11/24/08	KWG0812662	
tert-Butylbenzene	ND U	0.50	1	11/24/08	11/24/08	KWG0812662	
1,2,4-Trimethylbenzene	ND U	0.50	1	11/24/08	11/24/08	KWG0812662	
sec-Butylbenzene	ND U	0.50	1	11/24/08	11/24/08	KWG0812662	
1,3-Dichlorobenzene	ND U	0.50	1	11/24/08	11/24/08	KWG0812662	
4-Isopropyltoluene	ND U	0.50	1	11/24/08	11/24/08	KWG0812662	
1,4-Dichlorobenzene	ND U	0.50	1	11/24/08	11/24/08	KWG0812662	
n-Butylbenzene	ND U	0.50	1	11/24/08	11/24/08	KWG0812662	
1,2-Dichlorobenzene	ND U	0.50	1	11/24/08	11/24/08	KWG0812662	
1,2-Dibromo-3-chloropropane	ND U	2.0	1	11/24/08	11/24/08	KWG0812662	
1,2,4-Trichlorobenzene	ND U	0.50	1	11/24/08	11/24/08	KWG0812662	
1,2,3-Trichlorobenzene	ND U	0.50	1	11/24/08	11/24/08	KWG0812662	
Naphthalene	ND U	0.50	1	11/24/08	11/24/08	KWG0812662	
Hexachlorobutadiene	ND U	0.50	1	11/24/08	11/24/08	KWG0812662	
1,3,5-Trichlorobenzene	ND U	0.50	1	11/24/08	11/24/08	KWG0812662	

* See	Case	Narrative	
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Comments:

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Form 1A - Organic

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Analytical Results

Client:

Environmental Chemistry Consulting Servi

Project:

Kuhlman Electric

Sample Matrix:

Water

Service Request: K0811162

Date Collected: 11/12/2008

Date Received: 11/14/2008

Volatile Organic Compounds

Sample Name: Lab Code:

Trip Blank

K0811162-003

Units: ug/L

Basis: NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note	
Dibromofluoromethane	101	_75 -120	11/24/08	Acceptable	
Toluene-d8	97	80-128	11/24/08	Acceptable	
4-Bromofluorobenzene	79	75-117	11/24/08	Acceptable	

Comments:

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Form 1A - Organic

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SuperSet Reference: RR96658

Analytical Results

Client:

Environmental Chemistry Consulting Servi

Project:

Kuhlman Electric

Sample Matrix:

Water

Service Request: K0811162

Date Collected: NA Date Received: NA

Volatile Organic Compounds

Sample Name: Lab Code:

Method Blank KWG0812662-4

Extraction Method:

EPA 5030B

Analysis Method:

8260B

Units: ug/L Basis: NA

Level: Low

			•	Dilution	Date	Date	Extraction	
Analyte Name	Result	Q	MRL	Factor	Extracted	Analyzed	Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
Chloromethane	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
Vinyl Chloride	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
Bromomethane	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
Chloroethane	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
Trichlorofluoromethane	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	*
Acetone	ND	U	20	1	11/24/08	11/24/08	KWG0812662	-
1,1-Dichloroethene	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
Carbon Disulfide	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
Methylene Chloride	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
trans-1,2-Dichloroethene	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
1,1-Dichloroethane	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
2-Butanone (MEK)	ND	U	20	1	11/24/08	11/24/08	KWG0812662	
2,2-Dichloropropane	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
cis-1,2-Dichloroethene	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
Chloroform	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
Bromochloromethane	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
1,1-Dichloropropene	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
Carbon Tetrachloride	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
Benzene	ND	U	0.50	. 1	11/24/08	11/24/08	KWG0812662	
Trichloroethene (TCE)	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
1,2-Dichloropropane	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
Bromodichloromethane	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
Dibromomethane	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
2-Hexanone	ND	U	20	1	11/24/08	11/24/08	KWG0812662	
cis-1,3-Dichloropropene	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	o-
Toluene	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
trans-1,3-Dichloropropene	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
1,1,2-Trichloroethane	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	11/24/08	11/24/08	KWG0812662	
1,3-Dichloropropane	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
*	***		W.S.					



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Form 1A - Organic

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Analytical Results

Client:

Environmental Chemistry Consulting Servi

Project:

Kuhlman Electric

Sample Matrix:

Water

Service Request: K0811162

Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Lab Code: Method Blank KW 60812662-4

Extraction Method:

EPA 5030B

Analysis Method:

8260B

Units: ug/L Basis: NA

Level: Low

				Dilution	Date	Date	Extraction	
Analyte Name	Result	Q	MRL	Factor	Extracted	Analyzed	Lot	Note
Tetrachloroethene (PCE)	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	*
Dibromochloromethane	ND		0.50	1	11/24/08	11/24/08	KWG0812662	
1,2-Dibromoethane (EDB)	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
Chlorobenzene	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
Ethylbenzene	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
m,p-Xylenes	ND		0.50	1	11/24/08	11/24/08	KWG0812662	
o-Xylene	ND		0.50	1	11/24/08	11/24/08	KWG0812662	
Styrene	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
Bromoform	, ND		0.50	1	11/24/08	11/24/08	KWG0812662	
Isopropylbenzene	ND		0.50	1	11/24/08	11/24/08	KWG0812662	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
1,2,3-Trichloropropane	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
Bromobenzene	ND	U	0.50	. 1	11/24/08	11/24/08	KWG0812662	
n-Propylbenzene	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
2-Chlorotoluene	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
4-Chlorotoluene	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
1,3,5-Trimethylbenzene	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
tert-Butylbenzene	ND		0.50	1	11/24/08	11/24/08	KWG0812662	
1,2,4-Trimethylbenzene	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
sec-Butylbenzene	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
1,3-Dichlorobenzene	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
4-Isopropyltoluene	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
1,4-Dichlorobenzene	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
n-Butylbenzene	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
1,2-Dichlorobenzene	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	11/24/08	11/24/08	KWG0812662	
1,2,4-Trichlorobenzene	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
1,2,3-Trichlorobenzene	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
Naphthalene	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
Hexachlorobutadiene	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	
1,3,5-Trichlorobenzene	ND	U	0.50	1	11/24/08	11/24/08	KWG0812662	

^{*} See Case Narrative

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Analytical Results

Client:

Environmental Chemistry Consulting Servi

Project:

Kuhlman Electric

Sample Matrix:

Water

Service Request: K0811162

Date Collected: NA Date Received: NA

Volatile Organic Compounds

Sample Name:

Method Blank

Lab Code:

KWG0812662-4

Units: ug/L Basis: NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note			
Dibromofluoromethane	100	75-120	11/24/08	Acceptable	· ·		
Toluene-d8	96	80-128	11/24/08	Acceptable			
4-Bromofluorobenzene	78	75-117	11/24/08	Acceptable		et in	

Comments:

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QA/QC Report

Client:

Environmental Chemistry Consulting Servi

Project:

Kuhlman Electric

Sample Matrix:

Water

*Service Request: K0811162

Surrogate Recovery Summary **Volatile Organic Compounds**

Extraction Method:

EPA 5030B

Analysis Method:

8260B

Units: PERCENT

Level: Low

				-
Sample Name	Lab Code	Sur1	Sur2	Sur3
CSW-WA1-030	K0811162-001	100	96	79
CSW-Duplicate	K0811162-002	102	95	79
Trip Blank	K0811162-003	101	97	79
Method Blank	KWG0812662-4	100	96	78
CSW-WA1-030MS	KWG0812662-1	101	99	86
CSW-WA1-030DMS	KWG0812662-2	100	99	86
Lab Control Sample	KWG0812662-3	102	100	84

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.

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Form 2A - Organic

Page

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RR96658

QA/QC Report

Client:

Environmental Chemistry Consulting Servi

Project:

Kuhlman Electric

Sample Matrix:

Water

Service Request: K0811162

Date Extracted: 11/24/2008

Date Analyzed: 11/24/2008

Matrix Spike/Duplicate Matrix Spike Summary Volatile Organic Compounds

Sample Name: Lab Code:

CSW-WA1-030

The second second

K0811162-001

Basis: NA

Extraction Method:

EPA 5030B

Level: Low

Analysis Method:

8260B

Extraction Lot: KWG0812662

Units: ug/L

CSW-WA1-030MS

CSW-WA1-030DMS KWG0812662-2

KWG0812662-1

Matrix Spike Duplicate Matrix Spike Sample %Rec **RPD** Result **RPD Analyte Name** Result Expected %Rec Result **Expected** %Rec Limits Limit 1,1-Dichloroethene ND 10.2 10.0 102 10.2 10.0 102 67-147 0 30 Benzene ND 9.20 10.0 8.93 92 10.0 89 69-126 3 30 Trichloroethene (TCE) ND 9.27 10.0 93 9.05 10.0 91 56-137 2 30 Toluene ND 9.22 10.0 92 8.82 10.0 88 66-128 4 30 Chlorobenzene ND 10.4 10.0 104 9.83 10.0 5 30 98 68-120 1,2-Dichlorobenzene ND 9.84 10.0 98 9.19 10.0 92 67-116 7 30 Naphthalene ND 8.59 10.0 86 8.44 10.0 84 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.

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Form 3A - Organic

Page

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SuperSet Reference: RR96658

QA/QC Report

Client:

Environmental Chemistry Consulting Servi

Project:

Kuhlman Electric

Sample Matrix:

Water

Service Request: K0811162

Date Extracted: 11/24/2008 **Date Analyzed:** 11/24/2008

Lab Control Spike Summary **Volatile Organic Compounds**

Extraction Method: EPA 5030B **Analysis Method:**

8260B

Units: ug/L

Basis: NA Level: Low

Extraction Lot: KWG0812662

Lab Control Sample KWG0812662-3 Lab Control Spike

	1764 K/	But Control Spike		%Rec		
Analyte Name	Result	Expected	%Rec	Limits		
Dichlorodifluoromethane	13.3	10.0	133	21-156		
Chloromethane	8.20	10.0	82	45-135		
Vinyl Chloride	12.7	10.0	127	59-135		
Bromomethane	7.36	10.0	74	24-144		
Chloroethane	10.1	10.0	101	60-128		
Trichlorofluoromethane	13.2	10.0	132 *	54-129		<i>2</i>
Acetone	42.3	50.0	85	53-129		
1,1-Dichloroethene	11.9	10.0	119	70-136		
Carbon Disulfide	17.7	20.0	89	64-129		
Methylene Chloride	9.97	10.0	100	64-137		
trans-1,2-Dichloroethene	11.0	10.0	110	70-121		
1,1-Dichloroethane	9.90	10.0	99	72-122		
2-Butanone (MEK)	33.0	50.0	66	56-137		
2,2-Dichloropropane	7.84	10.0	78	48-133		
cis-1,2-Dichloroethene	9.87	10.0	99	76-125		
Chloroform	10.5	10.0	105	71-118		
Bromochloromethane	9.94	10.0	99	72-123		
1,1,1-Trichloroethane (TCA)	10.5	10.0	105	65-126		
1,1-Dichloropropene	10.3	10.0	103	71-119		
Carbon Tetrachloride	11.3	10.0	113	58-133		
1,2-Dichloroethane (EDC)	10.6	10.0	106	69-125		
Benzene	9.77	10.0	98	74-118		
Trichloroethene (TCE)	10.1	10.0	101	71-122		
1,2-Dichloropropane	8.56	10.0	86	73-123		
Bromodichloromethane	10.0	10.0	100	72-127	· ·	
Dibromomethane	8.57	10.0	86	71-124		
2-Hexanone	33.2	50.0	66	44-135		
cis-1,3-Dichloropropene	7.80	10.0	78	71-125		
Toluene	9.59	10.0	96	74-117		
trans-1,3-Dichloropropene	7.23	10.0	72	56-121	•	
1,1,2-Trichloroethane	9.17	10.0	92	73-122		
4-Methyl-2-pentanone (MIBK)	33.2	50.0	66	57-129		
1,3-Dichloropropane	9.45	10.0	95	74-120	,	
Tetrachloroethene (PCE)	12.7	10.0	127 *	65-121		
Dibromochloromethane	10.2	10.0	102	67-124		

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.

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Form 3C - Organic

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QA/QC Report

Client:

Environmental Chemistry Consulting Servi

Project:

Kuhlman Electric

Sample Matrix:

Water

Service Request: K0811162

Date Extracted: 11/24/2008

Date Analyzed: 11/24/2008

Lab Control Spike Summary **Volatile Organic Compounds**

Extraction Method:

EPA 5030B

Analysis Method:

8260B

Units: ug/L Basis: NA

Level: Low

Extraction Lot: KWG0812662

Lab Control Sample KWG0812662-3 Lab Control Spike

	Lau	Control Spik	<u> </u>	%Rec	
Analyte Name	Result	Expected	%Rec	Limits	
1,2-Dibromoethane (EDB)	9.36	10.0	94	71-120	
Chlorobenzene	10.3	10.0	103	74-115	
1,1,1,2-Tetrachloroethane	10.3	10.0	103	71-118	
Ethylbenzene	10.6	10.0	106	71-118	
m,p-Xylenes	21.3	20.0	106	73-119	
o-Xylene	9.59	10.0	96	74-120	
Styrene	9.52	10.0	95	75-123	
Bromoform	8.58	10.0	86	57-135	
Isopropylbenzene	9.46	10.0	95	65-110	
1,1,2,2-Tetrachloroethane	8.07	10.0	81	63-126	
1,2,3-Trichloropropane	8.10	10.0	81	67-123	
Bromobenzene	9.88	10.0	99	76-111	
n-Propylbenzene	9.47	10.0	95	69-122	
2-Chlorotoluene	9.20	10.0	92	72-120	
4-Chlorotoluene	8.85	10.0	89	70-118	
1,3,5-Trimethylbenzene	9.36	10.0	94	70-120	
tert-Butylbenzene	9.56	10.0	96	72-118	
1,2,4-Trimethylbenzene	9.36	10.0	94	72-121	
sec-Butylbenzene	9.32	10.0	93	73-130	
1,3-Dichlorobenzene	9.59	10.0	96	76-110	
4-Isopropyltoluene	9.41	10.0	94	67-115	
1,4-Dichlorobenzene	9.42	10.0	94	74-112	
n-Butylbenzene	9.22	10.0	92	62-123	
1,2-Dichlorobenzene	9.42	10.0	94	75-110	
1,2-Dibromo-3-chloropropane	7.09	10.0	71	49-124	
1,2,4-Trichlorobenzene	9.62	10.0	96	66-115	
1,2,3-Trichlorobenzene	9.96	10.0	100	64-120	
Naphthalene	7.89	10.0	79	58-132	
Hexachlorobutadiene	11.3	10.0	113	61-124	
1,3,5-Trichlorobenzene	40.3	40.0	101	46-133	

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.

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SuperSet Reference:

1,4-Dioxane by GC/MS

Analytical Results

Client:

Environmental Chemistry Consulting Servi

Project:

Kuhlman Electric

Sample Matrix:

Water

Service Request: K0811162

Date Collected: 11/12/2008 Date Received: 11/14/2008

1,4-Dioxane by GC/MS

Sample Name:

CSW-WA1-030

Lab Code:

K0811162-001

Units: ug/L Basis: NA:

Extraction Method:

EPA 3510C

Analysis Method:

Level: Low

8270C SIM

			Dilution	Date	Date	Extraction	
Analyte Name	Result Q	MRL	Factor	Extracted	Analyzed	Lot	Note
1,4-Dioxane	ND U	0.50	1	11/19/08	12/05/08	KWG0812423	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note	
1,4-Dioxane-d8	77	55-100	12/05/08	Acceptable	

Comments:

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Form 1A - Organic

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Analytical Results

Client:

Environmental Chemistry Consulting Servi

Project:

Kuhlman Electric

Sample Matrix:

Water

Service Request: K0811162

Date Collected: 11/12/2008

Date Received: 11/14/2008

1,4-Dioxane by GC/MS

Sample Name:

CSW-Duplicate

Lab Code:

K0811162-002

Extraction Method:

EPA 3510C

Units: ug/L Basis: NA

Level: Low

Analysis Method:

8270C SIM

		· ·	· Dilution	Date	Date	Extraction	
Analyte Name	Result Q	MRL	Factor	Extracted	Analyzed	Lot	Note
1,4-Dioxane	ND U	0.50	1	11/19/08	12/05/08	KWG0812423	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note	
1,4-Dioxane-d8	70	55-100	12/05/08	Acceptable	

Comments:

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RR96454

Analytical Results

Client:

Environmental Chemistry Consulting Servi

Project:

Kuhlman Electric

Sample Matrix:

Water

Service Request: K0811162

Date Collected: NA

Date Received: NA

1,4-Dioxane by GC/MS

Sample Name:

Method Blank

Lab Code:

KWG0812423-4

Extraction Method: Analysis Method:

EPA 3510C 8270C SIM

Units: ug/L Basis: NA

Level: Low

			1	Dilution	Date	Date	Extraction	
Analyte Name	Result Q	MRL	ļ	Factor	Extracted	Analyzed	Lot	Note
1,4-Dioxane	ND U	0.50		1	11/19/08	12/05/08	KWG0812423	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note	
1,4-Dioxane-d8	73	55-100	12/05/08	Acceptable	

Comments:

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QA/QC Report

Client:

Environmental Chemistry Consulting Servi

Project:

Kuhlman Electric

Sample Matrix:

Water

Service Request: K0811162

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

Extraction Method:

EPA 3510C

Units: PERCENT

Analysis Method:

8270C SIM

Level: Low

Sample Name	Lab Code	<u>Sur1</u>	
CSW-WA1-030	K0811162-001	77	
CSW-Duplicate	K0811162-002	70	
Method Blank	KWG0812423-4	73	
CSW-WA1-030MS	KWG0812423-1	69	
CSW-WA1-030DMS	KWG0812423-2	69	
Lab Control Sample	KWG0812423-3	68	

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.

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Form 2A - Organic

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SuperSet Reference: RR96454

QA/QC Report

Client:

Environmental Chemistry Consulting Servi

Project:

Kuhlman Electric

Sample Matrix:

Water

Service Request: K0811162

Date Extracted: 11/19/2008 Date Analyzed: 12/05/2008

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

Sample Name:

CSW-WA1-030

Lab Code:

K0811162-001

Extraction Method: Analysis Method:

EPA 3510C

8270C SIM

Units: ug/L

Basis: NA

Level: Low

Extraction Lot: KWG0812423

CSW-WA1-030MS

KWG0812423-1

CSW-WA1-030DMS

KWG0812423-2

	SampleMatrix Spike				Duplicate Matrix Spike			%Rec		RPD
Analyte Name	Result	Result	Expected	%Rec	Result	Expected	%Rec	Limits RPD	Limit	
1,4-Dioxane	ND	20.5	25.0	82	22.6	25.0	90	53-105	10	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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Form 3A - Organic

SuperSet Reference:

RR96454

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QA/QC Report

Client:

Environmental Chemistry Consulting Servi

Project:

Kuhlman Electric

Sample Matrix:

Water

Service Request: K0811162

Date Extracted: 11/19/2008 Date Analyzed: 12/05/2008

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: KWG0812423

Lab Control Sample KWG0812423-3

%Rec

Lab Control Spike

Limits

Analyte Name 1,4-Dioxane

Result 20.3

25.0

Expected

56-107

%Rec

81

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.

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Form 3C - Organic

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