



12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Ken Cameron (ODEQ)
Oregon Dept. of Env. Quality - ODEQ
2020 SW 4th, Suite 400
Portland, OR 97201

Report Summary

Monday November 05, 2012

Report Number: L602554

Samples Received: 10/24/12

Client Project:

Description: DEQ - Progress Cleaners

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:


Jarred Willis, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197,
FL - E87487, GA - 923, IN - C-1N-01, KY - 90010, KYUST - 0016,
NC - ENV375/DW21704/B10041, ND - R-140, NJ - TN002, NJ NELAP - TN002,
SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612,
MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1,
TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

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REPORT OF ANALYSIS

Ken Cameron (ODEQ)
Oregon Dept. of Env. Quality - ODEQ
2020 SW 4th, Suite 400
Portland, OR 97201

November 05, 2012

Date Received : October 24, 2012
Description : DEQ - Progress Cleaners

ESC Sample # : L602554-01

Sample ID : FRONT

Site ID :

Collected By : Ken Cameron
Collection Date : 10/23/12 13:22

Project # :

Parameter	Cas#	Mol Wght	RDL1	RDL2	ppbv	ug/m3	Method	Date	Dil.
Volatile Organics - T0-15 SIM									
Benzene	71-43-2	78.1	0.020	0.064	0.22	0.70	T0-15	11/02/12	1
Carbon tetrachloride	56-23-5	154	0.020	0.13	0.076	0.48	T0-15	11/02/12	1
Chloroethane	75-00-3	64.5	0.040	0.11	< 0.040	< 0.11	T0-15	11/02/12	1
Chloroform	67-66-3	119	0.020	0.097	0.044	0.21	T0-15	11/02/12	1
Chloromethane	74-87-3	50.5	0.030	0.062	0.38	0.78	T0-15	11/02/12	1
1,2-Dibromoethane	106-93-4	188	0.020	0.15	< 0.020	< 0.15	T0-15	11/02/12	1
1,4-Dichlorobenzene	106-46-7	147	0.020	0.12	< 0.020	< 0.12	T0-15	11/02/12	1
1,1-Dichloroethane	75-34-3	98	0.020	0.080	< 0.020	< 0.080	T0-15	11/02/12	1
1,1-Dichloroethene	75-35-4	96.9	0.020	0.079	< 0.020	< 0.079	T0-15	11/02/12	1
cis-1,2-Dichloroethene	156-59-2	96.9	0.020	0.079	< 0.020	< 0.079	T0-15	11/02/12	1
trans-1,2-Dichloroethene	156-60-5	96.9	0.020	0.079	< 0.020	< 0.079	T0-15	11/02/12	1
1,2-Dichloropropane	78-87-5	113	0.030	0.14	< 0.030	< 0.14	T0-15	11/02/12	1
cis-1,3-Dichloropropene	10061-01-5	111	0.020	0.091	< 0.020	< 0.091	T0-15	11/02/12	1
trans-1,3-Dichloropropene	10061-02-6	111	0.030	0.14	< 0.030	< 0.14	T0-15	11/02/12	1
Ethylbenzene	100-41-4	106	0.030	0.13	0.076	0.33	T0-15	11/02/12	1
1,1,2,2-Tetrachloroethane	79-34-5	168	0.020	0.14	< 0.020	< 0.14	T0-15	11/02/12	1
Tetrachloroethylene	127-18-4	166	0.020	0.14	0.62	4.2	T0-15	11/02/12	1
1,1,1-Trichloroethane	71-55-6	133	0.020	0.11	< 0.020	< 0.11	T0-15	11/02/12	1
1,1,2-Trichloroethane	79-00-5	133	0.030	0.16	< 0.030	< 0.16	T0-15	11/02/12	1
Trichloroethylene	79-01-6	131	0.020	0.11	0.040	0.21	T0-15	11/02/12	1
Vinyl chloride	75-01-4	62.5	0.020	0.051	< 0.020	< 0.051	T0-15	11/02/12	1
Vinyl acetate	108-05-4	86.1	0.020	0.070	< 0.020	< 0.070	T0-15	11/02/12	1
1,4-Bromofluorobenzene	460-00-4				114.83	% Rec.	T0-15	11/02/12	1

RDL1 = ppbv , RDL2 = ug/m3

Note:

Units are based on (STP) - Standard Temperature and Pressure

The reported analytical results relate only to the sample submitted.

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Reported: 11/02/12 17:12 Revised: 11/05/12 09:31



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2020 SW 4th, Suite 400
Portland, OR 97201

November 05, 2012

Date Received : October 24, 2012
Description : DEQ - Progress Cleaners

ESC Sample # : L602554-02

Sample ID : BACK

Site ID :

Collected By : Ken Cameron
Collection Date : 10/23/12 13:25

Project # :

Parameter	Cas#	Mol Wght	RDL1	RDL2	ppbv	ug/m3	Method	Date	Dil.
Volatile Organics - T0-15 SIM									
Benzene	71-43-2	78.1	0.020	0.064	0.23	0.73	T0-15	11/02/12	1
Carbon tetrachloride	56-23-5	154	0.020	0.13	0.076	0.48	T0-15	11/02/12	1
Chloroethane	75-00-3	64.5	0.040	0.11	< 0.040	< 0.11	T0-15	11/02/12	1
Chloroform	67-66-3	119	0.020	0.097	0.050	0.24	T0-15	11/02/12	1
Chloromethane	74-87-3	50.5	0.030	0.062	0.41	0.85	T0-15	11/02/12	1
1,2-Dibromoethane	106-93-4	188	0.020	0.15	< 0.020	< 0.15	T0-15	11/02/12	1
1,4-Dichlorobenzene	106-46-7	147	0.020	0.12	< 0.020	< 0.12	T0-15	11/02/12	1
1,1-Dichloroethane	75-34-3	98	0.020	0.080	< 0.020	< 0.080	T0-15	11/02/12	1
1,1-Dichloroethene	75-35-4	96.9	0.020	0.079	< 0.020	< 0.079	T0-15	11/02/12	1
cis-1,2-Dichloroethene	156-59-2	96.9	0.020	0.079	0.026	0.10	T0-15	11/02/12	1
trans-1,2-Dichloroethene	156-60-5	96.9	0.020	0.079	< 0.020	< 0.079	T0-15	11/02/12	1
1,2-Dichloropropane	78-87-5	113	0.030	0.14	< 0.030	< 0.14	T0-15	11/02/12	1
cis-1,3-Dichloropropene	10061-01-5	111	0.020	0.091	< 0.020	< 0.091	T0-15	11/02/12	1
trans-1,3-Dichloropropene	10061-02-6	111	0.030	0.14	< 0.030	< 0.14	T0-15	11/02/12	1
Ethylbenzene	100-41-4	106	0.030	0.13	0.084	0.36	T0-15	11/02/12	1
1,1,2,2-Tetrachloroethane	79-34-5	168	0.020	0.14	< 0.020	< 0.14	T0-15	11/02/12	1
Tetrachloroethylene	127-18-4	166	0.020	0.14	0.66	4.5	T0-15	11/02/12	1
1,1,1-Trichloroethane	71-55-6	133	0.020	0.11	< 0.020	< 0.11	T0-15	11/02/12	1
1,1,2-Trichloroethane	79-00-5	133	0.030	0.16	< 0.030	< 0.16	T0-15	11/02/12	1
Trichloroethylene	79-01-6	131	0.020	0.11	0.042	0.23	T0-15	11/02/12	1
Vinyl chloride	75-01-4	62.5	0.020	0.051	< 0.020	< 0.051	T0-15	11/02/12	1
Vinyl acetate	108-05-4	86.1	0.020	0.070	< 0.020	< 0.070	T0-15	11/02/12	1
1,4-Bromofluorobenzene	460-00-4				116.17	% Rec.	T0-15	11/02/12	1

RDL1 = ppbv , RDL2 = ug/m3

Note:

Units are based on (STP) - Standard Temperature and Pressure

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Reported: 11/02/12 17:12 Revised: 11/05/12 09:31



YOUR LAB OF CHOICE

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Quality Assurance Report
Level II

L602554

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Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
1,1,1-Trichloroethane	< .02	ppb			WG621068	11/02/12 14:43
1,1,2,2-Tetrachloroethane	< .02	ppb			WG621068	11/02/12 14:43
1,1,2-Trichloroethane	< .03	ppb			WG621068	11/02/12 14:43
1,1-Dichloroethane	< .02	ppb			WG621068	11/02/12 14:43
1,1-Dichloroethene	< .02	ppb			WG621068	11/02/12 14:43
1,2-Dibromoethane	< .02	ppb			WG621068	11/02/12 14:43
1,2-Dichloropropane	< .03	ppb			WG621068	11/02/12 14:43
1,4-Dichlorobenzene	< .02	ppb			WG621068	11/02/12 14:43
Benzene	< .02	ppb			WG621068	11/02/12 14:43
Carbon tetrachloride	< .02	ppb			WG621068	11/02/12 14:43
Chloroethane	< .04	ppb			WG621068	11/02/12 14:43
Chloroform	< .02	ppb			WG621068	11/02/12 14:43
Chloromethane	< .03	ppb			WG621068	11/02/12 14:43
cis-1,2-Dichloroethene	< .02	ppb			WG621068	11/02/12 14:43
cis-1,3-Dichloropropene	< .02	ppb			WG621068	11/02/12 14:43
Ethylbenzene	< .03	ppb			WG621068	11/02/12 14:43
Tetrachloroethylene	< .02	ppb			WG621068	11/02/12 14:43
trans-1,2-Dichloroethene	< .02	ppb			WG621068	11/02/12 14:43
trans-1,3-Dichloropropene	< .03	ppb			WG621068	11/02/12 14:43
Trichloroethylene	< .02	ppb			WG621068	11/02/12 14:43
Vinyl acetate	< .02	ppb			WG621068	11/02/12 14:43
Vinyl chloride	< .02	ppb			WG621068	11/02/12 14:43
1,4-Bromofluorobenzene		% Rec.	104.3	60-140	WG621068	11/02/12 14:43

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
1,1,1-Trichloroethane	ppb	.5	0.477	95.5	70-130	WG621068
1,1,2,2-Tetrachloroethane	ppb	.5	0.436	87.2	70-130	WG621068
1,1,2-Trichloroethane	ppb	.5	0.431	86.2	70-130	WG621068
1,1-Dichloroethane	ppb	.5	0.425	85.0	70-130	WG621068
1,1-Dichloroethene	ppb	.5	0.440	88.0	70-130	WG621068
1,2-Dibromoethane	ppb	.5	0.429	85.8	70-130	WG621068
1,2-Dichloropropane	ppb	.5	0.394	78.7	70-130	WG621068
1,4-Dichlorobenzene	ppb	.5	0.497	99.4	70-130	WG621068
Benzene	ppb	.5	0.406	81.2	70-130	WG621068
Carbon tetrachloride	ppb	.5	0.500	100.	70-130	WG621068
Chloroethane	ppb	.5	0.409	81.9	70-130	WG621068
Chloroform	ppb	.5	0.457	91.4	70-130	WG621068
Chloromethane	ppb	.5	0.402	80.3	70-130	WG621068
cis-1,2-Dichloroethene	ppb	.5	0.410	82.0	70-130	WG621068
cis-1,3-Dichloropropene	ppb	.5	0.409	81.7	70-130	WG621068
Ethylbenzene	ppb	.5	0.471	94.2	70-130	WG621068
Tetrachloroethylene	ppb	.5	0.490	98.0	70-130	WG621068
trans-1,2-Dichloroethene	ppb	.5	0.431	86.3	70-130	WG621068
trans-1,3-Dichloropropene	ppb	.5	0.404	80.8	70-130	WG621068
Trichloroethylene	ppb	.5	0.410	81.9	70-130	WG621068
Vinyl acetate	ppb	.5	0.475	95.1	70-130	WG621068
Vinyl chloride	ppb	.5	0.391	78.1	70-130	WG621068
1,4-Bromofluorobenzene				108.3	60-140	WG621068

Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
1,1,1-Trichloroethane	ppb	0.489	0.477	98.0	70-130	2.45	25	WG621068
1,1,2,2-Tetrachloroethane	ppb	0.482	0.436	96.0	70-130	9.95	25	WG621068
1,1,2-Trichloroethane	ppb	0.468	0.431	94.0	70-130	8.30	25	WG621068
1,1-Dichloroethane	ppb	0.436	0.425	87.0	70-130	2.72	25	WG621068
1,1-Dichloroethene	ppb	0.439	0.440	88.0	70-130	0.220	25	WG621068

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



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Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
1,2-Dibromoethane	ppb	0.463	0.429	93.0	70-130	7.66	25	WG621068
1,2-Dichloropropane	ppb	0.422	0.394	84.0	70-130	6.90	25	WG621068
1,4-Dichlorobenzene	ppb	0.518	0.497	104.	70-130	4.24	25	WG621068
Benzene	ppb	0.428	0.406	86.0	70-130	5.21	25	WG621068
Carbon tetrachloride	ppb	0.506	0.500	101.	70-130	1.28	25	WG621068
Chloroethane	ppb	0.411	0.409	82.0	70-130	0.370	25	WG621068
Chloroform	ppb	0.473	0.457	94.0	70-130	3.37	25	WG621068
Chloromethane	ppb	0.398	0.402	80.0	70-130	0.850	25	WG621068
cis-1,2-Dichloroethene	ppb	0.409	0.410	82.0	70-130	0.300	25	WG621068
cis-1,3-Dichloropropene	ppb	0.438	0.409	88.0	70-130	6.83	25	WG621068
Ethylbenzene	ppb	0.517	0.471	103.	70-130	9.20	25	WG621068
Tetrachloroethylene	ppb	0.516	0.490	103.	70-130	5.13	25	WG621068
trans-1,2-Dichloroethene	ppb	0.436	0.431	87.0	70-130	1.14	25	WG621068
trans-1,3-Dichloropropene	ppb	0.440	0.404	88.0	70-130	8.66	25	WG621068
Trichloroethylene	ppb	0.425	0.410	85.0	70-130	3.68	25	WG621068
Vinyl acetate	ppb	0.543	0.475	109.	70-130	13.4	25	WG621068
Vinyl chloride	ppb	0.389	0.391	78.0	70-130	0.360	25	WG621068
1,4-Bromofluorobenzene				107.1	60-140			WG621068

Batch number /Run number / Sample number cross reference

WG621068: R2422937: L602554-01 02

* * Calculations are performed prior to rounding of reported values.

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



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The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.