

Job Number: 71614
Report Date: 08/04/2010
ORELAP#: OR100028
Purchase Order:
Project Name:
Project No: SWR-One



Pyxis Laboratories
12423 NE Whitaker Way
Portland, OR 97230
503-254-1794

Cover Letter

Roger Cherry
SWR Corporation
20234 NE 194th Ave.
BATTLE GROUND, WA, 98604

Dear Roger Cherry,

Enclosed please find Pyxis Laboratories analytical report for order number 71614. Should you have any questions about this report or any other matter, please do not hesitate to contact us. We are here to help you.

The samples listed on the following pages were received at the Portland branch of Pyxis Laboratories on 07/16/2010 as order 71614.

Test results relate only to the parameters tested and to the samples as received by the laboratory. Test results meet all requirements of NELAC and the Pyxis quality assurance plan unless otherwise noted. This report shall not be reproduced, except in full, without the written consent of this laboratory. Samples will be kept a maximum of 15 days from the report date unless prior arrangements have been made.

Thank you for allowing Pyxis to be of service to you, we appreciate your business.

Sincerely,

Mark Leed
Technical Services

Sincerely,

Linda Bangs
Quality Services



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Sample Results

SWR-One	Collected: 06/17/10	By: Client	Matrix: Other							
Analyte	Result	Units	MRL	Dilution	Batch	Start / Extract	Analyzed	Analyst	Method	Notes
1,1,1-Trichloroethane	N.D.	mg/L	0.05	1	5025-5	07/20/10 17:00	07/21/10 12:48	MAR	EPA 624	
1,1,2-Trichloroethane	ND	mg/L	0.05	1	5025-5	07/20/10 17:00	07/21/10 12:48	MAR	EPA 624	
1,1-Dichloroethane	N.D.	mg/L	0.05	1	5025-5	07/20/10 17:00	07/21/10 12:48	MAR	EPA 624	
1,1-Dichloroethene	N.D.	mg/L	0.05	1	5025-5	07/20/10 17:00	07/21/10 12:48	MAR	EPA 624	
1,2-Dichlorobenzene	N.D.	mg/L	0.05	1	5025-5	07/20/10 17:00	07/21/10 12:48	MAR	EPA 624	
1,2-Dichloroethane	N.D.	mg/L	0.05	1	5025-5	07/20/10 17:00	07/21/10 12:48	MAR	EPA 624	
1,2-Dichloropropane	N.D.	mg/L	0.05	1	5025-5	07/20/10 17:00	07/21/10 12:48	MAR	EPA 624	
1,3-Dichlorobenzene	N.D.	mg/L	0.05	1	5025-5	07/20/10 17:00	07/21/10 12:48	MAR	EPA 624	
1,4-Dichlorobenzene	N.D.	mg/L	0.05	1	5025-5	07/20/10 17:00	07/21/10 12:48	MAR	EPA 624	
Bromodichloromethane	N.D.	mg/L	0.05	1	5025-5	07/20/10 17:00	07/21/10 12:48	MAR	EPA 624	
Carbon Tetrachloride	N.D.	mg/L	0.05	1	5025-5	07/20/10 17:00	07/21/10 12:48	MAR	EPA 624	
Chlorobenzene	N.D.	mg/L	0.05	1	5025-5	07/20/10 17:00	07/21/10 12:48	MAR	EPA 624	
Chloroethane	N.D.	mg/L	0.05	1	5025-5	07/20/10 17:00	07/21/10 12:48	MAR	EPA 624	
Chloroform	N.D.	mg/L	0.05	1	5025-5	07/20/10 17:00	07/21/10 12:48	MAR	EPA 624	
Chloromethane	N.D.	mg/L	0.05	1	5025-5	07/20/10 17:00	07/21/10 12:48	MAR	EPA 624	
Cis-1,3-dichloropropene	N.D.	mg/L	0.05	1	5025-5	07/20/10 17:00	07/21/10 12:48	MAR	EPA 624	
Dibromochloromethane	N.D.	mg/L	0.05	1	5025-5	07/20/10 17:00	07/21/10 12:48	MAR	EPA 624	
Methylene chloride	N.D.	mg/L	0.05	1	5025-5	07/20/10 17:00	07/21/10 12:48	MAR	EPA 624	
Tetrachloroethene	N.D.	mg/L	0.05	1	5025-5	07/20/10 17:00	07/21/10 12:48	MAR	EPA 624	
trans-1,2-Dichloroethene	N.D.	mg/L	0.05	1	5025-5	07/20/10 17:00	07/21/10 12:48	MAR	EPA 624	
trans-1,3-Dichloropropene	N.D.	mg/L	0.05	1	5025-5	07/20/10 17:00	07/21/10 12:48	MAR	EPA 624	
Trichloroethene	N.D.	mg/L	0.05	1	5025-5	07/20/10 17:00	07/21/10 12:48	MAR	EPA 624	
Trichlorofluoromethane	N.D.	mg/L	0.05	1	5025-5	07/20/10 17:00	07/21/10 12:48	MAR	EPA 624	
Vinyl Chloride	N.D.	mg/L	0.05	1	5025-5	07/20/10 17:00	07/21/10 12:48	MAR	EPA 624	
1,1,2,2-Tetrachloroethane	N.D.	mg/L	0.05	1	5025-5	07/20/10 17:00	07/21/10 12:48	MAR	EPA 624	
Arsenic	0.076	mg/L	0.05	10	5149-24	07/20/10 09:00	07/29/10 20:28	CCV	EPA 200.8	
Chromium	0.47	mg/L	0.1	10	5149-24	07/20/10 09:00	07/29/10 20:28	CCV	EPA 200.8	
2-Chloroethylvinyl ether	ND	mg/L	0.05	1	5022-6	07/20/10 17:00	07/21/10 15:59	MAR	EPA624Ex	

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Pyxis Laboratories
 12423 NE Whitaker Way
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 503-254-1794

Laboratory Quality Control Results

EPA 624

Batch ID: 5025-1

QC - Method Blank

Analyte	Result	Expected	Units	% Recovery	Limits	RPD	Limit	Notes
1,1,1-Trichloroethane	N.D.	ND	mg/L	--	--	--	--	
1,1,2-Trichloroethane	N.D.	ND	mg/L	--	--	--	--	
1,1-Dichloroethane	N.D.	ND	mg/L	--	--	--	--	
1,1-Dichloroethene	N.D.	ND	mg/L	--	--	--	--	
1,2-Dichlorobenzene	N.D.	ND	mg/L	--	--	--	--	
1,2-Dichloroethane	N.D.	ND	mg/L	--	--	--	--	
1,2-Dichloropropane	N.D.	ND	mg/L	--	--	--	--	
1,3-Dichlorobenzene	N.D.	ND	mg/L	--	--	--	--	
1,4-Dichlorobenzene	N.D.	ND	mg/L	--	--	--	--	
Bromodichloromethane	N.D.	ND	mg/L	--	--	--	--	
Carbon Tetrachloride	N.D.	ND	mg/L	--	--	--	--	
Chlorobenzene	N.D.	ND	mg/L	--	--	--	--	
Chloroethane	N.D.	ND	mg/L	--	--	--	--	
Chloroform	N.D.	ND	mg/L	--	--	--	--	
Chloromethane	N.D.	ND	mg/L	--	--	--	--	
Cis-1,3-dichloropropene	N.D.	ND	mg/L	--	--	--	--	
Dibromochloromethane	N.D.	ND	mg/L	--	--	--	--	
Methylene chloride	N.D.	ND	mg/L	--	--	--	--	
Tetrachloroethene	N.D.	ND	mg/L	--	--	--	--	
trans-1,2-Dichloroethene	N.D.	ND	mg/L	--	--	--	--	
trans-1,3-Dichloropropene	N.D.	ND	mg/L	--	--	--	--	
Trichloroethene	N.D.	ND	mg/L	--	--	--	--	
Trichlorofluoromethane	N.D.	ND	mg/L	--	--	--	--	
Vinyl Chloride	N.D.	ND	mg/L	--	--	--	--	
4-Bromofluorobenzene (Surr.)	--	--	--	105	70-130	--	--	
Dibromofluoromethane (Surr.)	--	--	--	100	70-130	--	--	
Toluene-d8 (Surr.)	--	--	--	100	70-130	--	--	
1,1,2,2-Tetrachloroethane	N.D.	ND	mg/L	--	--	--	--	

QC - Continuing Calibration Verif. - Standard: S0070733

Batch ID: 5025-2

Analyte	Result	Expected	Units	% Recovery	Limits	RPD	Limit	Notes
1,1,1-Trichloroethane	0.05	0.05	mg/L	99	47-150	--	--	
1,1,2-Trichloroethane	0.052	0.05	mg/L	104	47-150	--	--	
1,1-Dichloroethane	0.05	0.05	mg/L	99	47-150	--	--	
1,1-Dichloroethene	0.047	0.05	mg/L	94	47-150	--	--	
1,2-Dichlorobenzene	0.05	0.05	mg/L	99	47-150	--	--	
1,2-Dichloroethane	0.051	0.05	mg/L	102	47-150	--	--	
1,2-Dichloropropane	0.051	0.05	mg/L	101	47-150	--	--	
1,3-Dichlorobenzene	0.049	0.05	mg/L	98	47-150	--	--	
1,4-Dichlorobenzene	0.049	0.05	mg/L	97	47-150	--	--	
Bromodichloromethane	0.051	0.05	mg/L	101	47-150	--	--	
Carbon Tetrachloride	0.051	0.05	mg/L	101	47-150	--	--	
Chlorobenzene	0.051	0.05	mg/L	101	47-150	--	--	
Chloroethane	0.052	0.05	mg/L	104	47-150	--	--	
Chloroform	0.05	0.05	mg/L	100	47-150	--	--	
Chloromethane	0.049	0.05	mg/L	98	47-150	--	--	
Cis-1,3-dichloropropene	0.054	0.05	mg/L	107	47-150	--	--	
Dibromochloromethane	0.053	0.05	mg/L	106	47-150	--	--	
Methylene chloride	0.025	0.05	mg/L	50	47-150	--	--	
Tetrachloroethene	0.047	0.05	mg/L	94	47-150	--	--	
trans-1,2-Dichloroethene	0.049	0.05	mg/L	98	47-150	--	--	
trans-1,3-Dichloropropene	0.055	0.05	mg/L	110	47-150	--	--	
Trichloroethene	0.049	0.05	mg/L	98	47-150	--	--	
Trichlorofluoromethane	0.047	0.05	mg/L	94	47-150	--	--	
Vinyl Chloride	0.054	0.05	mg/L	108	47-150	--	--	

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Analyte	Result	Expected	Units	% Recovery	Limits	RPD	Limit	Notes
4-Bromofluorobenzene (Surr.)	--	--	--	101	47-150	--	--	
Dibromofluoromethane (Surr.)	--	--	--	101	47-150	--	--	
Toluene-d8 (Surr.)	--	--	--	97	47-150	--	--	
1,1,2,2-Tetrachloroethane	0.057	0.05	mg/L	113	47-150	--	--	

QC - Laboratory Control Sample - Standard: S0060708

Batch ID: 5025-3

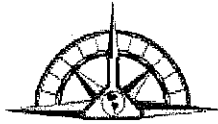
Analyte	Result	Expected	Units	% Recovery	Limits	RPD	Limit	Notes
1,1,1-Trichloroethane	0.05	0.05	mg/L	99	52-162	--	--	
1,1,2-Trichloroethane	0.052	0.05	mg/L	104	52-150	--	--	
1,1-Dichloroethane	0.049	0.05	mg/L	98	59-155	--	--	
1,1-Dichloroethene	0.049	0.05	mg/L	97	1-234	--	--	
1,2-Dichlorobenzene	0.05	0.05	mg/L	99	18-190	--	--	
1,2-Dichloroethane	0.053	0.05	mg/L	105	49-155	--	--	
1,2-Dichloropropane	0.052	0.05	mg/L	103	1-210	--	--	
1,3-Dichlorobenzene	0.049	0.05	mg/L	97	59-156	--	--	
1,4-Dichlorobenzene	0.049	0.05	mg/L	98	18-190	--	--	
Bromodichloromethane	0.05	0.05	mg/L	99	35-155	--	--	
Carbon Tetrachloride	0.051	0.05	mg/L	102	70-140	--	--	
Chlorobenzene	0.05	0.05	mg/L	100	37-160	--	--	
Chloroethane	0.054	0.05	mg/L	108	14-230	--	--	
Chloroform	0.049	0.05	mg/L	97	51-138	--	--	
Chloromethane	0.047	0.05	mg/L	94	30-150	--	--	
Cis-1,3-dichloropropene	0.053	0.05	mg/L	105	1-227	--	--	
Dibromochloromethane	0.052	0.05	mg/L	104	53-149	--	--	
Methylene chloride	0.024	0.05	mg/L	48	1-221	--	--	
Tetrachloroethene	0.047	0.05	mg/L	92	64-148	--	--	
trans-1,2-Dichloroethene	0.051	0.05	mg/L	102	54-156	--	--	
trans-1,3-Dichloropropene	0.051	0.05	mg/L	101	17-183	--	--	
Trichloroethene	0.05	0.05	mg/L	98	71-157	--	--	
Trichlorofluoromethane	0.046	0.05	mg/L	92	17-181	--	--	
Vinyl Chloride	0.057	0.05	mg/L	113	1-251	--	--	
4-Bromofluorobenzene (Surr.)	--	--	--	101	70-130	--	--	
Dibromofluoromethane (Surr.)	--	--	--	101	70-130	--	--	
Toluene-d8 (Surr.)	--	--	--	98	70-130	--	--	
1,1,2,2-Tetrachloroethane	0.057	0.05	mg/L	114	46-157	--	--	

QC - Laboratory Control Sample Duplicate - Standard: S0060708

Batch ID: 5025-4

Analyte	Result	Expected	Units	% Recovery	Limits	RPD	Limit	Notes
1,1,1-Trichloroethane	0.046	0.05	mg/L	91	52-162	8	30	
1,1,2-Trichloroethane	0.052	0.05	mg/L	103	52-150	0	30	
1,1-Dichloroethane	0.046	0.05	mg/L	91	59-155	6	30	
1,1-Dichloroethene	0.044	0.05	mg/L	87	1-234	11	30	
1,2-Dichlorobenzene	0.048	0.05	mg/L	94	18-190	4	30	
1,2-Dichloroethane	0.051	0.05	mg/L	102	49-155	2	30	
1,2-Dichloropropane	0.049	0.05	mg/L	97	1-210	5	30	
1,3-Dichlorobenzene	0.046	0.05	mg/L	91	59-156	6	30	
1,4-Dichlorobenzene	0.046	0.05	mg/L	92	18-190	5	30	
Bromodichloromethane	0.048	0.05	mg/L	95	35-155	4	30	
Carbon Tetrachloride	0.046	0.05	mg/L	92	70-140	10	30	
Chlorobenzene	0.047	0.05	mg/L	93	37-160	6	30	
Chloroethane	0.048	0.05	mg/L	96	14-230	11	30	
Chloroform	0.046	0.05	mg/L	91	51-138	6	30	
Chloromethane	0.043	0.05	mg/L	86	30-150	8	30	
Cis-1,3-dichloropropene	0.05	0.05	mg/L	100	1-227	4	30	
Dibromochloromethane	0.051	0.05	mg/L	101	53-149	2	30	
Methylene chloride	0.024	0.05	mg/L	48	1-221	0	30	
Tetrachloroethene	0.042	0.05	mg/L	83	64-148	10	30	
trans-1,2-Dichloroethene	0.047	0.05	mg/L	93	54-156	9	30	
trans-1,3-Dichloropropene	0.05	0.05	mg/L	99	17-183	2	30	
Trichloroethene	0.045	0.05	mg/L	90	71-157	9	30	
Trichlorofluoromethane	0.043	0.05	mg/L	85	17-181	7	30	
Vinyl Chloride	0.051	0.05	mg/L	102	1-251	9	30	
4-Bromofluorobenzene (Surr.)	--	--	--	102	70-130	--	--	
Dibromofluoromethane (Surr.)	--	--	--	101	70-130	--	--	

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Analyte	Result	Expected	Units	% Recovery	Limits	RPD	Limit	Notes
Toluene-d8 (Surr.)	---	---	---	98	70-130	---	---	
I,1,2,2-Tetrachloroethane	0.057	0.05	mg/L	113	46-157	0	30	

QC - Initial Calibration Blank

Batch ID: 5149-2

Analyte	Result	Expected	Units	% Recovery	Limits	RPD	Limit	Notes
Arsenic	ND	ND	mg/L	---	---	---	---	
Chromium	ND	ND	mg/L	---	---	---	---	

QC - Initial Calibration Verif. - Standard: S940155

Batch ID: 5149-3

Analyte	Result	Expected	Units	% Recovery	Limits	RPD	Limit	Notes
Arsenic	10	10	mg/L	104	90-110	---	---	
Chromium	10	10	mg/L	101	90-110	---	---	

QC - Continuing Calibration Verif. - Standard: S0010608

Batch ID: 5149-18

Analyte	Result	Expected	Units	% Recovery	Limits	RPD	Limit	Notes
Arsenic	100	100	mg/L	100	85-115	---	---	
Chromium	100	100	mg/L	104	85-115	---	---	

QC - Continuing Calibration Blank

Batch ID: 5149-19

Analyte	Result	Expected	Units	% Recovery	Limits	RPD	Limit	Notes
Arsenic	ND	ND	mg/L	---	---	---	---	
Chromium	ND	ND	mg/L	---	---	---	---	

QC - Method Blank

Batch ID: 5149-20

Analyte	Result	Expected	Units	% Recovery	Limits	RPD	Limit	Notes
Arsenic	ND	ND	mg/L	---	---	---	---	
Chromium	ND	ND	mg/L	---	---	---	---	

QC - Laboratory Control Sample - Standard: S0010608

Batch ID: 5149-21

Analyte	Result	Expected	Units	% Recovery	Limits	RPD	Limit	Notes
Arsenic	0.2	0.2	mg/L	99	85-115	---	---	
Chromium	0.21	0.2	mg/L	105	85-115	---	---	

QC - Matrix Spike - Standard: S0010608 - Sample item #: 25

Batch ID: 5149-26

Analyte	Result	Expected	Units	% Recovery	Limits	RPD	Limit	Notes
Arsenic	0.35	0.33	mg/L	102	70-130	---	---	
Chromium	0.39	0.33	mg/L	99	70-130	---	---	

QC - Matrix Spike Duplicate - Standard: S0010608 - Sample item #: 25

Batch ID: 5149-27

Analyte	Result	Expected	Units	% Recovery	Limits	RPD	Limit	Notes
Arsenic	0.34	0.33	mg/L	102	70-130	0	20	
Chromium	0.4	0.33	mg/L	100	70-130	0	20	

QC - Continuing Calibration Verif. - Standard: S0010608

Batch ID: 5149-37

Analyte	Result	Expected	Units	% Recovery	Limits	RPD	Limit	Notes
Arsenic	100	100	mg/L	99	85-115	---	---	
Chromium	110	100	mg/L	106	85-115	---	---	

QC - Continuing Calibration Blank

Batch ID: 5149-38

Analyte	Result	Expected	Units	% Recovery	Limits	RPD	Limit	Notes
Arsenic	ND	ND	mg/L	---	---	---	---	
Chromium	ND	ND	mg/L	---	---	---	---	

EPA624Ex

QC - Method Blank

Batch ID: 5022-1

Analyte	Result	Expected	Units	% Recovery	Limits	RPD	Limit	Notes
2-Chloroethylvinyl ether	N.D.	ND	mg/L	---	---	---	---	

QC - Continuing Calibration Verif. - Standard: S0070733

Batch ID: 5022-2

Analyte	Result	Expected	Units	% Recovery	Limits	RPD	Limit	Notes
2-Chloroethylvinyl ether	0.062	0.05	mg/L	124	1-305	---	---	

QC - Laboratory Control Sample - Standard: S0060708

Batch ID: 5022-3

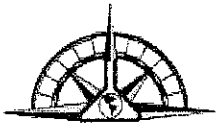
Analyte	Result	Expected	Units	% Recovery	Limits	RPD	Limit	Notes
2-Chloroethylvinyl ether	0.054	0.05	mg/L	107	1-305	---	---	

QC - Laboratory Control Sample Duplicate - Standard: S0060708

Batch ID: 5022-4

Analyte	Result	Expected	Units	% Recovery	Limits	RPD	Limit	Notes
2-Chloroethylvinyl ether	0.053	0.05	mg/L	104	1-305	2		

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Abbreviations

MRL Method Reporting Limit
ND None Detected at or above the MRL
RPD Relative Percent Difference

Units of Measure:

mg/L Milligrams Per Liter