

DATE: 27-January-2014

CLIENT: Neologic Solutions

PAGE: 1 Of 3

PROJECT NO.:2502-Cyst**COLLECTED BY:**MR**DATE RECEIVED:**03-January-2014**PROJECT DESC:**Carbon filter

Enclosed, please find our final laboratory analysis report regarding the evaluation of **Neologic Solutions CB6** for **Cyst Reduction.** One system was tested per NSF/ANSI Standard 53-2011A protocol.

Prior to cyst reduction testing the filter was preconditioned by flushing with general test water for 10 minutes, per request of the customer. Then the filter was challenged using an operating cycle of 10 minutes on and 10 minutes off with Polystyrene microspheres having a 95% distribution in the 3.00 ± 0.15 size micron range for eight cycles. Samples were then collected at the beginning of the "on" portion of the 8th cycle for analysis of cyst reduction. Next, cycles of 0 to 5 micron test dust solution were run through the filter until the filter showed a 25% flow reduction. Two cycles of general test water were then run through the filter. The filter was then challenged using an operating cycle of 10 minutes on and 10 minutes off with Polystyrene microspheres, for four cycles. Samples were collected at the beginning of the fourth cycle for analysis of cyst reduction. Test dust was run through the filter until the filter showed a 50% flow reduction. Two cycles of general test water were then run through the fourth cycle for analysis of cyst reduction. Test dust was run through the filter until the filter showed a 50% flow reduction. Two cycles of general test water were then run through the fourth cycle for analysis of cyst reduction. Test dust was run through the filter until the filter showed a 75% flow reduction, followed by the two cycles of general test water. The filter was challenged with Polystyrene microspheres for four cycles. Samples were collected at the beginning of the fourth cycle for analysis of cyst reduction. Test dust was run through the filter until the filter showed a 75% flow reduction, followed by the two cycles of general test water. The filter was challenged with Polystyrene microspheres for four cycles. Samples were collected at the beginning of the fourth cycle for analysis of cyst reduction. Test dust was run through the filter until the filter showed a 75% flow reduction, followed by the two cycles of general test water. The filter was challenged with Polystyrene microspheres

Pace Analytical Services, Inc. appreciates the opportunity to provide you with this product testing service. If you have any questions or comments, please feel free to call at 612.656.1144.

Sincerely,

aht Manu

Robert Monsour Project Manager

NSF/ANSI Standard 53-2011A Cyst Reduction



DATE:	27-January-2014	PAGE:	2 Of 3
CLIENT:	Neologic Solutions	PROJECT NO.:	2502-Cyst
		COLLECTED BY:	MR
		DATE RECEIVED:	03-January-2014
		PROJECT DESC:	Carbon filter

Flush/Condition:

	E1
Flow Rate, (gpm)	0.761
Differential pressure (psid)	30

8th Cycle:

Collected-23Jan2014	35970	35976
Analyzed- 27Jan2014	Influent	<i>E1</i>
Flow Rate, (gpm)	-	0.757
Differential pressure (psid)	-	30
Particles/L 3 micron	109,000	8
Percent Reduction	-	99.99

25% Flow reduction:

Collected-24Jan2014	35971	35977
Analyzed -27Jan2014	Influent	<i>E1</i>
Flow Rate, (gpm)	-	0.587
Differential pressure (psid)	-	42
Particles/L 3 micron	117,000	5
Percent Reduction	-	>99.99

50% Flow reduction:

Collected-24Jan2014	35972	35978
Analyzed-27Jan2014	Influent	<i>E1</i>
Flow Rate, (gpm)	-	0.460
Differential pressure (psid)	-	49
Particles/L 3 micron	51,000	0
Percent Reduction	-	>99.99

75% Flow reduction:

Collected-24Jan2014	35973	35979
Analyzed-27Jan2014	Influent	<i>E1</i>
Flow Rate, (gpm)	-	0.229
Differential pressure (psid)	-	60
Particles/L 3 micron	53,000	2
Percent Reduction	-	>99.99

PERFORMANCE SUMMARY:



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DATE:	27-January-2014	PAGE:	3 Of 3
CLIENT:	Neologic Solutions	PROJECT NO.:	2502-Cyst
		COLLECTED BY:	MR
		DATE RECEIVED:	03-January-2014
		PROJECT DESC:	Carbon filter

	E1
Minimum percent reduction	99.99
Pass or Fail	Pass

Influent Water Characteristics:

<u>23Jan2014 Influent</u>	<u>Method</u>	Collected	<u>Analyzed</u>	<u>Reporting Limit</u>
TDS (mg/L): 244	EPA 160.1	23-Jan-2014	23-Jan-2014	10
pH: 7.16	EPA 150.1	23-Jan-2014	23-Jan-2014	N/A
<i>Temp</i> ° <i>C</i> :22.3	N/A	23-Jan-2014	23-Jan-2014	N/A
Hardness: 0 mg/L	EPA 130.1	23-Jan-2014	23-Jan-2014	1.0
Turbidity (NTU):0.09	EPA 180.1	23-Jan-2014	23-Jan-2014	0.1
<u>24Jan2014 Influent</u>	<u>Method</u>	<u>Collected</u>	<u>Analyzed</u>	<u>Reporting Limit</u>
<u>24Jan2014 Influent</u> TDS (mg/L): 249	<u>Method</u> EPA 160.1	<u>Collected</u> 24-Jan-2014	<u>Analyzed</u> 24-Jan-2014	<u>Reporting Limit</u> 10
<u>24Jan2014 Influent</u> TDS (mg/L): 249 pH: 7.70	<u>Method</u> EPA 160.1 EPA 150.1	<u>Collected</u> 24-Jan-2014 24-Jan-2014	<u>Analyzed</u> 24-Jan-2014 24-Jan-2014	<u>Reporting Limit</u> 10 N/A
24Jan2014 Influent TDS (mg/L): 249 pH: 7.70 Temp °C:22.4	<u>Method</u> EPA 160.1 EPA 150.1 N/A	<u>Collected</u> 24-Jan-2014 24-Jan-2014 24-Jan-2014	<u>Analyzed</u> 24-Jan-2014 24-Jan-2014 24-Jan-2014	<u>Reporting Limit</u> 10 N/A N/A
24Jan2014 Influent TDS (mg/L): 249 pH: 7.70 Temp °C:22.4 Hardness: 0 mg/L	<u>Method</u> EPA 160.1 EPA 150.1 N/A EPA 130.1	<u>Collected</u> 24-Jan-2014 24-Jan-2014 24-Jan-2014 24-Jan-2014	<u>Analyzed</u> 24-Jan-2014 24-Jan-2014 24-Jan-2014 24-Jan-2014	<u>Reporting Limit</u> 10 N/A N/A 1.0

This report has been reviewed for technical accuracy and completeness. The analyses were performed using EPA or other approved methodologies and the results were reported on an "as received" basis unless otherwise noted. These results relate only to the items tested.

END OF DOCUMENT



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LABORATORY ANALYSIS REPORT

DATE: 2014-04-03 CLIENT: Neologic Solutions PAGE: 1 of 7 PROJECT: 2500 COLLECTED BY: RM PROJECT REC'D: 2014-01-03 PROJECT DESC: Filter

Pace Analyticals Product Testing Division received 1 Filter (s) for the analysis presented in the following report.

All data reported is associated with quality control that met method, EPA, NSF/ANSI or internal laboratory specification. Any exceptions are noted in a footnote or narrative format.

Pace Analytical Services, Inc. appreciates the opportunity to provide you with this product testing service. We value your feedback, would you please take a few minutes to access our customer satisfaction survey at: <u>http://www.pacelabs.com/my-account/customer-survey.html</u>. If you have any questions or comments regarding this report, please feel free to contact us.

Sincerely,

Roht Manne

Enclosure



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LABORATORY ANALYSIS REPORT

PROJECT: 2500

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NSF/ANSI Standard 53 - 2011 Low pH Lead Reduction

Sample: 035932	Description: Influent			Volume: 10 Unit Volume		
		Reporting			Date	Date
<u>Compound</u>	<u>Results</u>	<u>Units</u>	<u>Limit</u>	<u>Method</u>	<u>Collected</u>	<u>Analyzed</u>
Alkalinity (wc)	9 22	mg/L	2.0	EPA 310.1	2014-01-14	2014-01-15
Hardness (wc)	20	mg/L	1	EPA 130.2	2014-01-14	2014-01-15
Low pH Lead	151.0	ug/L	0.5	EPA 200.8	2014-01-14	2014-01-14
рН (wc)	6.31	(None)	NA	EPA 150.1	2014-01-14	2014-01-14
Polyphosphates (as P) (wc)	0.11	mg/L	0.05	SM 4500-P	2014-01-14	2014-01-17
Pressure (psi)	60	psi	NA	(None)	2014-01-14	2014-01-14
Temperature (wc)	19.6	°C	NA	EPA 150.1	2014-01-14	2014-01-14
Total Dissolved Solids (wc)	74	mg/L	10	EPA 160.1M	2014-01-14	2014-01-14
Turbidity (wc)	<1.0	NTU	1.0	EPA 180.1	2014-01-14	2014-01-14

Sample: 035938	Description: Neologic Solutions CB6 - No.1			Volume: 10 Unit Volume		
			Reporting		Date	Date
<u>Compound</u>	<u>Results</u>	<u>Units</u>	<u>Limit</u>	<u>Method</u>	<u>Collected</u>	<u>Analyzed</u>
Flow Rate	0.74	GPM	NA	(None)	2014-01-14	2014-01-14
Low pH Lead	<0.5	ug/L	0.5	EPA 200.8	2014-01-14	2014-01-14
Low pH Lead % Red	>99	%	NA	EPA 200.8	2014-01-14	2014-01-15



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LABORATORY ANALYSIS REPORT

PROJECT: 2500

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NSF/ANSI Standard 53 - 2011 Low pH Lead Reduction

Sample: 035933	Description: Influent			Volume: 375 Gallons		
	Reporting			Date	Date	
<u>Compound</u>	<u>Results</u>	<u>Units</u>	<u>Limit</u>	<u>Method</u>	<u>Collected</u>	<u>Analyzed</u>
Alkalinity (wc)	10	mg/L	2.0	EPA 310.1	2014-01-15	2014-01-15
Hardness (wc)	20	mg/L	1	EPA 130.2	2014-01-15	2014-01-15
Low pH Lead	133.2	ug/L	0.5	EPA 200.8	2014-01-15	2014-01-15
pH (wc)	6.48	(None)	NA	EPA 150.1	2014-01-15	2014-01-15
Polyphosphates (as P) (wc)	0.14	mg/L	0.05	SM 4500-P	2014-01-15	2014-01-17
Pressure (psi)	60	psi	NA	(None)	2014-01-15	2014-01-15
Temperature (wc)	21.2	°C	NA	EPA 150.1	2014-01-15	2014-01-15
Total Dissolved Solids (wc)	60	mg/L	10	EPA 160.1M	2014-01-15	2014-01-15
Turbidity (wc)	<1.0	NTU	1.0	EPA 180.1	2014-01-15	2014-01-15

Sample: 035939	Descriptio	n: Neolog	Volume: 375 Gallons			
			Date	Date		
<u>Compound</u>	<u>Results</u>	<u>Units</u>	<u>Limit</u>	<u>Method</u>	<u>Collected</u>	<u>Analyzed</u>
Flow Rate	0.75	GPM	NA	(None)	2014-01-15	2014-01-15
Low pH Lead	<0.5	ug/L	0.5	EPA 200.8	2014-01-15	2014-01-16
Low pH Lead % Red	>99	%	NA	EPA 200.8	2014-01-15	2014-01-16



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LABORATORY ANALYSIS REPORT

PROJECT: 2500

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NSF/ANSI Standard 53 - 2011 Low pH Lead Reduction

Sample: 035934		Descrip	Volume: 750 Gallons			
			Reporting		Date	Date
<u>Compound</u>	<u>Results</u>	<u>Units</u>	<u>Limit</u>	<u>Method</u>	<u>Collected</u>	<u>Analyzed</u>
Alkalinity (wc)	10	mg/L	1.0	EPA 310.1	2014-01-16	2014-01-24
Hardness (wc)	17	mg/L	1	EPA 130.2	2014-01-16	2014-01-24
Low pH Lead	137.3	ug/L	0.5	EPA 200.8	2014-01-16	2014-01-16
рН (wc)	6.62	(None)	NA	EPA 150.1	2014-01-16	2014-01-16
Polyphosphates (as P) (wc)	<0.05	mg/L	0.05	SM 4500-P	2014-01-16	2014-01-17
Pressure (psi)	60	psi	NA	(None)	2014-01-16	2014-01-16
Temperature (wc)	21.9	°C	NA	EPA 150.1	2014-01-16	2014-01-16
Total Dissolved Solids (wc)	64	mg/L	10	EPA 160.1M	2014-01-16	2014-01-16
Turbidity (wc)	<1.0	NTU	1.0	EPA 180.1	2014-01-16	2014-01-16

Sample: 035940	Descriptio	n: Neolog	Volume: 750 Gallons			
			Reporting		Date	Date
<u>Compound</u>	<u>Results</u>	<u>Units</u>	<u>Limit</u>	<u>Method</u>	<u>Collected</u>	<u>Analyzed</u>
Flow Rate	0.76	GPM	NA	(None)	2014-01-16	2014-01-16
Low pH Lead	<0.5	ug/L	0.5	EPA 200.8	2014-01-16	2014-01-17
Low pH Lead % Red	>99	%	NA	EPA 200.8	2014-01-16	2014-01-21



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LABORATORY ANALYSIS REPORT

PROJECT: 2500

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NSF/ANSI Standard 53 - 2011 Low pH Lead Reduction

Sample: 035935		Descrip	Volume: 1125 Gallons			
			Reporting		Date	Date
<u>Compound</u>	<u>Results</u>	<u>Units</u>	<u>Limit</u>	<u>Method</u>	<u>Collected</u>	<u>Analyzed</u>
Alkalinity (wc)	8 22	mg/L	1.0	EPA 310.1	2014-01-17	2014-01-24
Hardness (wc)	20	mg/L	1	EPA 130.2	2014-01-17	2014-01-24
Low pH Lead	135.4	ug/L	0.5	EPA 200.8	2014-01-17	2014-01-17
рН (wc)	6.45	(None)	NA	EPA 150.1	2014-01-17	2014-01-17
Polyphosphates (as P) (wc)	<0.05	mg/L	0.05	SM 4500-P	2014-01-17	2014-01-24
Pressure (psi)	60	psi	NA	(None)	2014-01-17	2014-01-17
Temperature (wc)	19.1	°C	NA	EPA 150.1	2014-01-17	2014-01-17
Total Dissolved Solids (wc)	80	mg/L	10	EPA 160.1M	2014-01-17	2014-01-17
Turbidity (wc)	<1.0	NTU	1.0	EPA 180.1	2014-01-17	2014-01-17

Sample: 035941	Descriptio	n: Neolog	Volume: 1125 Gallons			
			Date	Date		
<u>Compound</u>	<u>Results</u>	<u>Units</u>	<u>Limit</u>	<u>Method</u>	<u>Collected</u>	<u>Analyzed</u>
Flow Rate	0.76	GPM	NA	(None)	2014-01-17	2014-01-17
Low pH Lead	<0.5	ug/L	0.5	EPA 200.8	2014-01-17	2014-01-20
Low pH Lead % Red	>99	%	NA	EPA 200.8	2014-01-17	2014-01-22



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LABORATORY ANALYSIS REPORT

PROJECT: 2500

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NSF/ANSI Standard 53 - 2011 Low pH Lead Reduction

Sample: 035936	B6 Description: Influent		Volume: 1500 Gallons			
			Reporting		Date	Date
<u>Compound</u>	<u>Results</u>	<u>Units</u>	<u>Limit</u>	<u>Method</u>	<u>Collected</u>	<u>Analyzed</u>
Alkalinity (wc)	8 22	mg/L	1.0	EPA 310.1	2014-01-20	2014-01-24
Hardness (wc)	23	mg/L	1	EPA 130.2	2014-01-20	2014-01-24
Low pH Lead	158.5	ug/L	0.5	EPA 200.8	2014-01-20	2014-01-20
pH (wc)	6.49	(None)	NA	EPA 150.1	2014-01-20	2014-01-20
Polyphosphates (as P) (wc)	<0.05	mg/L	0.05	SM 4500-P	2014-01-20	2014-01-24
Pressure (psi)	60	psi	NA	(None)	2014-01-20	2014-01-20
Temperature (wc)	22.1	°C	NA	EPA 150.1	2014-01-20	2014-01-20
Total Dissolved Solids (wc)	91	mg/L	10	EPA 160.1M	2014-01-20	2014-01-20
Turbidity (wc)	<1.0	NTU	1.0	EPA 180.1	2014-01-20	2014-01-20

Sample: 035942	Descriptio	n: Neolog	Volume: 1500 Gallons			
			Date	Date		
<u>Compound</u>	<u>Results</u>	<u>Units</u>	<u>Limit</u>	<u>Method</u>	<u>Collected</u>	<u>Analyzed</u>
Flow Rate	0.76	GPM	NA	(None)	2014-01-20	2014-01-20
Low pH Lead	<0.5	ug/L	0.5	EPA 200.8	2014-01-20	2014-01-21
Low pH Lead % Red	>99	%	NA	EPA 200.8	2014-01-20	2014-01-22



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LABORATORY ANALYSIS REPORT

PROJECT: 2500 PAGE

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	ICE SUMMARY	PERFORMAN
	Low pH Lead	Contaminant
	1	Number of Systems Tested
GALLONS	1500	Rated Claim
	Not Applicable	Performance Indicating Device (PID)
GALLONS	1500	Total Test Volume
PERCENT	100	Percentage of Rated Claim
GPM	0.75	Manufacturers Rated Flow Rate
GPM	0.75	Average Flow Rate (all devices)
ug/L	143.1	Average Test Influent
ug/L	0.2	Average Effluent (all devices)
ug/L	10	Maximum Allowable Effluent Level
GALLONS	Didn't Fail	Failure Point - Neologic Solutions CB6 - No.1

SUBCONTRACTED ANALYSIS SUMMARY							
Analysis	Method	Laboratory	Location				
Polyphosphates (as P)	SM 4500-P	Pace - MN	MInneapolis,MN				

This report has been reviewed for technical accuracy and completeness. The analyses were performed using EPA or other approved methodologies and the results were reported on an "as received" basis unless otherwise noted. These results relate only to the items tested.

NA = Not Applicable

su - Standard Units

UV - Unit Volume

mg/L = milligrams per Liter

ug/L = micrograms per Liter

GPM = *Gallons Per Minute*

NTU = *Nephelometric Turbidity Unit*

(wc) = Water Characteristics are for monitoring purposes only, quality control samples may or may not have been performed.

22 - Water characteristic value is outside the specified NSF/ANSI protocol limits.

END OF DOCUMENT



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LABORATORY ANALYSIS REPORT

DATE: 2014-04-03

CLIENT: Neologic Solutions

PAGE: 1 of 10 PROJECT: 2501 COLLECTED BY: RM PROJECT REC'D: 2014-01-03 PROJECT DESC: Filter

Pace Analyticals Product Testing Division received 1 Filter (s) for the analysis presented in the following report.

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Pace Analytical Services, Inc. appreciates the opportunity to provide you with this product testing service. We value your feedback, would you please take a few minutes to access our customer satisfaction survey at: http://www.pacelabs.com/my-account/customer-survey.html . If you have any questions or comments regarding this report, please feel free to contact us.

Sincerely,

Roht Manne

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LABORATORY ANALYSIS REPORT

PROJECT: 2501 PA

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NSF/ANSI Standard 53 - 2011 Chloroform Reduction

Sample: 035944	Description: Influent			Volume: 10 Unit Volume		
			Reporting		Date	Date
<u>Compound</u>	<u>Results</u>	<u>Units</u>	<u>Limit</u>	<u>Method</u>	<u>Collected</u>	<u>Analyzed</u>
Chloroform	325.0	ug/L	1.000	EPA 524.2	2014-01-15	2014-01-15
Conductivity (wc)	478.0	uS/cm	1.0	EPA 120.1	2014-01-15	2014-01-15
pH (wc)	7.01	(None)	NA	EPA 150.1	2014-01-15	2014-01-15
Pressure (psi)	60	psi	NA	(None)	2014-01-15	2014-01-15
Temperature (wc)	22.4	°C	NA	EPA 150.1	2014-01-15	2014-01-15
Total Dissolved Solids (wc)	239	mg/L	10	EPA 160.1M	2014-01-15	2014-01-15
Total Organic Carbon (wc)	3.04	mg/L	0.70	SM 5310C	2014-01-21	2014-01-22
Turbidity (wc)	<1.0	NTU	1.0	EPA 180.1	2014-01-15	2014-01-15

NSF/ANSI Standard 53 - 2011 Chloroform Reduction

Sample: 035957	Descriptio	n: Neolo	Volume: 10 Unit Volume			
			Reporting		Date	Date
<u>Compound</u>	<u>Results</u>	<u>Units</u>	<u>Limit</u>	<u>Method</u>	<u>Collected</u>	<u>Analyzed</u>
Chloroform	<1.000	ug/L	1.000	EPA 524.2	2014-01-15	2014-01-15
Chloroform % Red	>99	%	NA	EPA 524.2	2014-01-17	2014-01-17
Flow Rate	0.76	GPM	NA	(None)	2014-01-15	2014-01-15

NSF/ANSI Standard 53 - 2011 Chloroform Reduction

Sample: 035945		Descrip	Volume: 150 Gallons			
			Reporting		Date	Date
<u>Compound</u>	<u>Results</u>	<u>Units</u>	<u>Limit</u>	<u>Method</u>	<u>Collected</u>	<u>Analyzed</u>
Chloroform	325.0	ug/L	1.000	EPA 524.2	2014-01-15	2014-01-15
Conductivity (wc)	408.0	uS/cm	1.0	EPA 120.1	2014-01-15	2014-01-15
рН (wc)	7.05	(None)	NA	EPA 150.1	2014-01-15	2014-01-15
Pressure (psi)	60	psi	NA	(None)	2014-01-15	2014-01-15
Temperature (wc)	22.1	°C	NA	EPA 150.1	2014-01-15	2014-01-15
Total Dissolved Solids (wc)	204	mg/L	10	EPA 160.1M	2014-01-15	2014-01-15
Total Organic Carbon (wc)	3.04	mg/L	0.70	SM 5310C	2014-01-21	2014-01-22
Turbidity (wc)	<1.0	NTU	1.0	EPA 180.1	2014-01-15	2014-01-15



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LABORATORY ANALYSIS REPORT

PROJECT: 2501 PAGE: 3 of 10

NSF/ANSI Standard 53 - 2011 Chloroform Reduction

Sample: 035958	Descriptio	n: Neolo	Volume: 150 Gallons			
			Reporting		Date	Date
<u>Compound</u>	<u>Results</u>	<u>Units</u>	<u>Limit</u>	<u>Method</u>	<u>Collected</u>	<u>Analyzed</u>
Chloroform	2.2 44	ug/L	1.000	EPA 524.2	2014-01-16	2014-01-16
Chloroform % Red	>99	%	NA	EPA 524.2	2014-01-21	2014-01-23
Flow Rate	0.74	GPM	NA	(None)	2014-01-15	2014-01-15

NSF/ANSI Standard 53 - 2011 Chloroform Reduction

Sample: 035946		Descrip		Volume: 300 Gallons		
			Reporting		Date	Date
<u>Compound</u>	<u>Results</u>	<u>Units</u>	<u>Limit</u>	<u>Method</u>	<u>Collected</u>	<u>Analyzed</u>
Chloroform	319.0 44	ug/L	1.000	EPA 524.2	2014-01-16	2014-01-16
Conductivity (wc)	469.0	uS/cm	1.0	EPA 120.1	2014-01-16	2014-01-16
рН (wc)	7.04	(None)	NA	EPA 150.1	2014-01-16	2014-01-16
Pressure (psi)	60	psi	NA	(None)	2014-01-16	2014-01-16
Temperature (wc)	18.8	°C	NA	EPA 150.1	2014-01-16	2014-01-16
Total Dissolved Solids (wc)	235	mg/L	10	EPA 160.1M	2014-01-16	2014-01-16
Total Organic Carbon (wc)	2.63	mg/L	0.70	SM 5310C	2014-01-21	2014-01-22
Turbidity (wc)	<1.0	NTU	1.0	EPA 180.1	2014-01-16	2014-01-16

NSF/ANSI Standard 53 - 2011 Chloroform Reduction

Sample: 035959	Descriptio	n: Neolo	Volume: 300 Gallons			
			Reporting		Date	Date
<u>Compound</u>	<u>Results</u>	<u>Units</u>	<u>Limit</u>	<u>Method</u>	<u>Collected</u>	<u>Analyzed</u>
Chloroform	2.0 44	ug/L	1.000	EPA 524.2	2014-01-16	2014-01-16
Chloroform % Red	>99	%	NA	EPA 524.2	2014-01-21	2014-01-23
Flow Rate	0.75	GPM	NA	(None)	2014-01-16	2014-01-16



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LABORATORY ANALYSIS REPORT

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NSF/ANSI Standard 53 - 2011 Chloroform Reduction

Sample: 035947		Descrip	Volume: 450 Gallons			
			Reporting		Date	Date
<u>Compound</u>	<u>Results</u>	<u>Units</u>	<u>Limit</u>	<u>Method</u>	<u>Collected</u>	<u>Analyzed</u>
Chloroform	315.0 44	ug/L	1.000	EPA 524.2	2014-01-16	2014-01-16
Conductivity (wc)	637.0	uS/cm	1.0	EPA 120.1	2014-01-16	2014-01-16
pH (wc)	7.04	(None)	NA	EPA 150.1	2014-01-16	2014-01-16
Pressure (psi)	60	psi	NA	(None)	2014-01-16	2014-01-16
Temperature (wc)	17.6	°C	NA	EPA 150.1	2014-01-16	2014-01-16
Total Dissolved Solids (wc)	319	mg/L	10	EPA 160.1M	2014-01-16	2014-01-16
Total Organic Carbon (wc)	2.63	mg/L	0.70	SM 5310C	2014-01-21	2014-01-22
Turbidity (wc)	<1.0	NTU	1.0	EPA 180.1	2014-01-16	2014-01-16

NSF/ANSI Standard 53 - 2011 Chloroform Reduction

Sample: 035960	Descriptio	n: Neolo	Volume: 450 Gallons			
			Reporting		Date	Date
<u>Compound</u>	<u>Results</u>	<u>Units</u>	<u>Limit</u>	<u>Method</u>	<u>Collected</u>	<u>Analyzed</u>
Chloroform	2.2 44	ug/L	1.000	EPA 524.2	2014-01-17	2014-01-17
Chloroform % Red	>99	%	NA	EPA 524.2	2014-01-21	2014-01-24
Flow Rate	0.76	GPM	NA	(None)	2014-01-16	2014-01-16

NSF/ANSI Standard 53 - 2011 Chloroform Reduction

Sample: 035948		Descrip	Volume: 600 Gallons			
			Reporting		Date	Date
<u>Compound</u>	<u>Results</u>	<u>Units</u>	<u>Limit</u>	<u>Method</u>	<u>Collected</u>	<u>Analyzed</u>
Chloroform	315.0 44	ug/L	1.000	EPA 524.2	2014-01-16	2014-01-16
Conductivity (wc)	637.0	uS/cm	1.0	EPA 120.1	2014-01-16	2014-01-16
pH (wc)	7.04	(None)	NA	EPA 150.1	2014-01-16	2014-01-16
Pressure (psi)	60	psi	NA	(None)	2014-01-16	2014-01-16
Temperature (wc)	17.6	°C	NA	EPA 150.1	2014-01-16	2014-01-16
Total Dissolved Solids (wc)	319	mg/L	10	EPA 160.1M	2014-01-16	2014-01-16
Total Organic Carbon (wc)	2.63	mg/L	0.70	SM 5310C	2014-01-21	2014-01-22
Turbidity (wc)	<1.0	NTU	1.0	EPA 180.1	2014-01-16	2014-01-16



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NSF/ANSI Standard 53 - 2011 Chloroform Reduction

Sample: 035961	Descriptio	n: Neolo	Volume: 600 Gallons			
			Reporting		Date	Date
<u>Compound</u>	<u>Results</u>	<u>Units</u>	<u>Limit</u>	<u>Method</u>	<u>Collected</u>	<u>Analyzed</u>
Chloroform	3.1 44	ug/L	1.000	EPA 524.2	2014-01-21	2014-01-23
Chloroform % Red	99.0	%	NA	EPA 524.2	2014-01-21	2014-01-24
Flow Rate	0.76	GPM	NA	(None)	2014-01-16	2014-01-16

NSF/ANSI Standard 53 - 2011 Chloroform Reduction

Sample: 035949		Descrip		Volume: 750 Gallons		
			Reporting		Date	Date
<u>Compound</u>	<u>Results</u>	<u>Units</u>	<u>Limit</u>	<u>Method</u>	<u>Collected</u>	<u>Analyzed</u>
Chloroform	293.0 ⁴⁴	ug/L	1.000	EPA 524.2	2014-01-17	2014-01-17
Conductivity (wc)	641.0	uS/cm	1.0	EPA 120.1	2014-01-17	2014-01-17
pH (wc)	7.08	(None)	NA	EPA 150.1	2014-01-17	2014-01-17
Pressure (psi)	60	psi	NA	(None)	2014-01-17	2014-01-17
Temperature (wc)	19.5	°C	NA	EPA 150.1	2014-01-17	2014-01-17
Total Dissolved Solids (wc)	321	mg/L	10	EPA 160.1M	2014-01-17	2014-01-17
Total Organic Carbon (wc)	3.17	mg/L	0.70	SM 5310C	2014-01-21	2014-01-22
Turbidity (wc)	<1.0	NTU	1.0	EPA 180.1	2014-01-17	2014-01-17

NSF/ANSI Standard 53 - 2011 Chloroform Reduction

Sample: 035962	Descriptio	n: Neolo	Volume: 750 Gallons			
			Reporting		Date	Date
<u>Compound</u>	<u>Results</u>	<u>Units</u>	<u>Limit</u>	<u>Method</u>	<u>Collected</u>	<u>Analyzed</u>
Chloroform	3.5	ug/L	1.000	EPA 524.2	2014-01-21	2014-01-21
Chloroform % Red	>99	%	NA	EPA 524.2	2014-01-21	2014-01-23
Flow Rate	0.75	GPM	NA	(None)	2014-01-17	2014-01-17



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NSF/ANSI Standard 53 - 2011 Chloroform Reduction

Sample: 035950	Description: Influent				Volume: 900 Gallons		
			Reporting		Date	Date	
<u>Compound</u>	<u>Results</u>	<u>Units</u>	<u>Limit</u>	<u>Method</u>	<u>Collected</u>	<u>Analyzed</u>	
Chloroform	293.0 44	ug/L	1.000	EPA 524.2	2014-01-17	2014-01-17	
Conductivity (wc)	641.0	uS/cm	1.0	EPA 120.1	2014-01-17	2014-01-17	
pH (wc)	7.08	(None)	NA	EPA 150.1	2014-01-17	2014-01-17	
Pressure (psi)	60	psi	NA	(None)	2014-01-17	2014-01-17	
Temperature (wc)	19.5	°C	NA	EPA 150.1	2014-01-17	2014-01-17	
Total Dissolved Solids (wc)	321	mg/L	10	EPA 160.1M	2014-01-17	2014-01-17	
Total Organic Carbon (wc)	3.17	mg/L	0.70	SM 5310C	2014-01-21	2014-01-22	
Turbidity (wc)	<1.0	NTU	1.0	EPA 180.1	2014-01-17	2014-01-17	

NSF/ANSI Standard 53 - 2011 Chloroform Reduction

Sample: 035963	Descriptio	n: Neolo	Volume: 900 Gallons			
			Reporting		Date	Date
<u>Compound</u>	<u>Results</u>	<u>Units</u>	<u>Limit</u>	<u>Method</u>	<u>Collected</u>	<u>Analyzed</u>
Chloroform	3.4 44	ug/L	1.000	EPA 524.2	2014-01-21	2014-01-23
Chloroform % Red	98.8	%	NA	EPA 524.2	2014-01-21	2014-01-24
Flow Rate	0.75	GPM	NA	(None)	2014-01-17	2014-01-17

NSF/ANSI Standard 53 - 2011 Chloroform Reduction

Sample: 035951		Descrip		Volume: 1050 Gallons		
			Reporting		Date	Date
<u>Compound</u>	<u>Results</u>	<u>Units</u>	<u>Limit</u>	<u>Method</u>	<u>Collected</u>	<u>Analyzed</u>
Chloroform	293.0 44	ug/L	1.000	EPA 524.2	2014-01-17	2014-01-17
Conductivity (wc)	641.0	uS/cm	1.0	EPA 120.1	2014-01-17	2014-01-17
рН (wc)	7.08	(None)	NA	EPA 150.1	2014-01-17	2014-01-17
Pressure (psi)	60	psi	NA	(None)	2014-01-17	2014-01-17
Temperature (wc)	19.5	°C	NA	EPA 150.1	2014-01-17	2014-01-17
Total Dissolved Solids (wc)	321	mg/L	10	EPA 160.1M	2014-01-17	2014-01-17
Total Organic Carbon (wc)	3.17	mg/L	0.70	SM 5310C	2014-01-21	2014-01-22
Turbidity (wc)	<1.0	NTU	1.0	EPA 180.1	2014-01-17	2014-01-17



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NSF/ANSI Standard 53 - 2011 Chloroform Reduction

Sample: 035964	Description: Neologic Solutions CB6 - No.2			Volume: 1050 Gallons		
			Reporting		Date	Date
<u>Compound</u>	<u>Results</u>	<u>Units</u>	<u>Limit</u>	<u>Method</u>	<u>Collected</u>	<u>Analyzed</u>
Chloroform	3.8	ug/L	1.000	EPA 524.2	2014-01-21	2014-01-21
Chloroform % Red	>99	%	NA	EPA 524.2	2014-01-21	2014-01-23
Flow Rate	0.75	GPM	NA	(None)	2014-01-17	2014-01-17

NSF/ANSI Standard 53 - 2011 Chloroform Reduction

Sample: 035952	035952 Description: Influent			Volume: 1200 Gallons		
			Reporting		Date	Date
<u>Compound</u>	<u>Results</u>	<u>Units</u>	<u>Limit</u>	<u>Method</u>	<u>Collected</u>	<u>Analyzed</u>
Chloroform	294.0	ug/L	1.000	EPA 524.2	2014-01-21	2014-01-21
Conductivity (wc)	714.0	uS/cm	1.0	EPA 120.1	2014-01-21	2014-01-21
pH (wc)	7.71	(None)	NA	EPA 150.1	2014-01-21	2014-01-21
Pressure (psi)	60	psi	NA	(None)	2014-01-21	2014-01-21
Temperature (wc)	22.5	°C	NA	EPA 150.1	2014-01-21	2014-01-21
Total Dissolved Solids (wc)	357	mg/L	10	EPA 160.1M	2014-01-21	2014-01-21
Total Organic Carbon (wc)	3.42	mg/L	0.70	SM 5310C	2014-01-21	2014-01-22
Turbidity (wc)	<1.0	NTU	1.0	EPA 180.1	2014-01-21	2014-01-21

NSF/ANSI Standard 53 - 2011 Chloroform Reduction

Sample: 035965	Descriptio	n: Neolo	Volume: 1200 Gallons			
			Date	Date		
<u>Compound</u>	<u>Results</u>	<u>Units</u>	<u>Limit</u>	<u>Method</u>	<u>Collected</u>	<u>Analyzed</u>
Chloroform	3.7	ug/L	1.000	EPA 524.2	2014-01-21	2014-01-21
Chloroform % Red	98.7	%	NA	EPA 524.2	2014-01-21	2014-01-23
Flow Rate	0.72	GPM	NA	(None)	2014-01-21	2014-01-21



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NSF/ANSI Standard 53 - 2011 Chloroform Reduction

Sample: 035953	Description: Influent			Volume: 1350 Gallons		
			Reporting		Date	Date
<u>Compound</u>	<u>Results</u>	<u>Units</u>	<u>Limit</u>	<u>Method</u>	<u>Collected</u>	<u>Analyzed</u>
Chloroform	294.0	ug/L	1.000	EPA 524.2	2014-01-21	2014-01-21
Conductivity (wc)	714.0	uS/cm	1.0	EPA 120.1	2014-01-21	2014-01-21
pH (wc)	7.71	(None)	NA	EPA 150.1	2014-01-21	2014-01-21
Pressure (psi)	60	psi	NA	(None)	2014-01-21	2014-01-21
Temperature (wc)	22.5	°C	NA	EPA 150.1	2014-01-21	2014-01-21
Total Dissolved Solids (wc)	357	mg/L	10	EPA 160.1M	2014-01-21	2014-01-21
Total Organic Carbon (wc)	3.42	mg/L	0.70	SM 5310C	2014-01-21	2014-01-22
Turbidity (wc)	<1.0	NTU	1.0	EPA 180.1	2014-01-21	2014-01-21

NSF/ANSI Standard 53 - 2011 Chloroform Reduction

Sample: 035966	Description: Neologic Solutions CB6 - No.2			Volume: 1350 Gallons		
			Reporting		Date	Date
<u>Compound</u>	<u>Results</u>	<u>Units</u>	<u>Limit</u>	<u>Method</u>	<u>Collected</u>	<u>Analyzed</u>
Chloroform	3.5 ⁴⁴	ug/L	1.000	EPA 524.2	2014-01-21	2014-01-22
Chloroform % Red	98.8	%	NA	EPA 524.2	2014-01-21	2014-01-24
Flow Rate	0.72	GPM	NA	(None)	2014-01-21	2014-01-21

NSF/ANSI Standard 53 - 2011 Chloroform Reduction

Sample: 035954	Description: Influent			Volume: 1500 Gallons		
			Reporting		Date	Date
<u>Compound</u>	<u>Results</u>	<u>Units</u>	<u>Limit</u>	<u>Method</u>	<u>Collected</u>	<u>Analyzed</u>
Chloroform	294.0	ug/L	1.000	EPA 524.2	2014-01-21	2014-01-21
Conductivity (wc)	714.0	uS/cm	1.0	EPA 120.1	2014-01-21	2014-01-21
рН (wc)	7.71	(None)	NA	EPA 150.1	2014-01-21	2014-01-21
Pressure (psi)	60	psi	NA	(None)	2014-01-21	2014-01-21
Temperature (wc)	22.5	°C	NA	EPA 150.1	2014-01-21	2014-01-21
Total Dissolved Solids (wc)	357	mg/L	10	EPA 160.1M	2014-01-21	2014-01-21
Total Organic Carbon (wc)	3.42	mg/L	0.70	SM 5310C	2014-01-21	2014-01-22
Turbidity (wc)	<1.0	NTU	1.0	EPA 180.1	2014-01-21	2014-01-21



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NSF/ANSI Standard 53 - 2011 Chloroform Reduction

Sample: 035967	Description: Neologic Solutions CB6 - No.2				Volume: 1500 Gallons	
			Reporting		Date	Date
<u>Compound</u>	<u>Results</u>	<u>Units</u>	<u>Limit</u>	<u>Method</u>	<u>Collected</u>	<u>Analyzed</u>
Chloroform	3.8 44	ug/L	1.000	EPA 524.2	2014-01-21	2014-01-22
Chloroform % Red	98.7	%	NA	EPA 524.2	2014-01-21	2014-01-24
Flow Rate	0.72	GPM	NA	(None)	2014-01-21	2014-01-21



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PERFORMANCE SUMMARY									
Contaminant	Chloroform								
Number of Systems Tested	1								
Rated Claim	1500	GALLONS							
Performance Indicating Device (PID)	Not Applicable								
Performance Indicating Device (PID)	Yes								
Total Test Volume	1500	GALLONS							
Percentage of Rated Claim	100	PERCENT							
Manufacturers Rated Flow Rate	0.75	GPM							
Average Flow Rate (all devices)	0.74	GPM							
Average Test Influent	305.5	ug/L							
Average Effluent (all devices)	2.8	ug/L							
Maximum Allowable Effluent Level	15	ug/L							
Failure Point - Neologic Solutions CB6 - No.2	Didn't Fail	GALLONS							

This report has been reviewed for technical accuracy and completeness. The analyses were performed using EPA or other approved methodologies and the results were reported on an "as received" basis unless otherwise noted. These results relate only to the items tested.

NA = Not Applicable su - Standard Units UV - Unit Volume mg/L = milligrams per Liter ug/L = micrograms per Liter GPM = Gallons Per Minute NTU = Nephelometric Turbidity Unit (wc) = Water Characteristics are for monitoring purposes only, quality control samples may or may not have been performed.

44 - Surrogate standards were outside of Pace Analyticals acceptance limits. Results may be biased high.

END OF DOCUMENT