ANALYTICAL SUMMARY REPORT

July 03, 2012

Atkins North America Missoula
1120 Cedar St
Missoula, MT 59802-3911

Workorder No.: B12062394 Quote ID: B2325 - East Poplar

Project Name: Poplar PWS

Energy Laboratories Inc Billings MT received the following 5 samples for Atkins North America Missoula on 6/27/2012 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
B12062394-001	4298-COP1-UNT1,2,3	06/26/12 9:00	06/27/12	Drinking Water	Metals by ICP/ICPMS, Total Anions by Ion Chromatography Metals Preparation by EPA 200.2 Solids, Total Dissolved 524-Purgeable Organics, SDWA
B12062394-002	4298-COP1-TRE1,2,3	06/26/12 9:30	06/27/12	Drinking Water	Same As Above
B12062394-003	4298-COP1-DIST1,2,3	06/26/12 10:00	06/27/12	Drinking Water	Same As Above
B12062394-004	4298-COP4-UNT1,2,3	06/26/12 8:00	06/27/12	Drinking Water	Same As Above
B12062394-005	Trip Blank Lot040512 B-TS SHP0255	06/26/12 8:00	06/27/12	Trip Blank	524-Purgeable Organics, SDWA

The analyses presented in this report were performed by Energy Laboratories, Inc., 1120 S 27th St., Billings, MT 59101, unless otherwise noted. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing.

If you have any questions regarding these test results, please call.

Report Approved By: William T Brown
President

Digitally signed by
Bill Brown
Date: 2012.07.03 16:58:54 -06:00

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Atkins North America Missoula
Project: Poplar PWS
Lab ID: B12062394-001
Client Sample ID 4298-COP1-UNT1,2,3

Report Date: 07/03/12
Collection Date: 06/26/12 09:00
DateReceived: 06/27/12
Matrix: Drinking Water

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
Solids, Total Dissolved TDS @ 180 C	1220	mg/L		10		A2540 C	06/28/12 13:01 / ser
INORGANICS							
Chloride	225	mg/L	D	2		E300.0	06/29/12 22:33 / jrs
Sulfate	237	mg/L	D	10		E300.0	06/29/12 22:33 / jrs
Bromide	ND	mg/L	D	2		E300.0	07/02/12 15:30 / jrs
METALS, TOTAL							
Barium	ND	mg/L		0.1		E200.7	06/28/12 18:21 / rlh
Calcium	69	mg/L		1		E200.7	06/28/12 18:21 / rlh
Lithium	0.129	mg/L		0.005		E200.7	06/28/12 18:21 / rlh
Manganese	0.55	mg/L		0.01		E200.7	06/28/12 18:21 / rlh
Sodium	359	mg/L		1		E200.7	06/28/12 18:21 / rlh
Strontium	0.7	mg/L		0.1		E200.7	06/28/12 18:21 / rlh
VOLATILE ORGANIC COMPOUNDS							
Benzene	ND	ug/L		0.50	5	E524.2	07/03/12 00:30 / jmh
Ethylbenzene	ND	ug/L		0.50	700	E524.2	07/03/12 00:30 / jmh
Toluene	ND	ug/L		0.50	1000	E524.2	07/03/12 00:30 / jmh
m+p-Xylenes	ND	ug/L		0.50		E524.2	07/03/12 00:30 / jmh
o-Xylene	ND	ug/L		0.50		E524.2	07/03/12 00:30 / jmh
Xylenes, Total	ND	ug/L		0.50	10000	E524.2	07/03/12 00:30 / jmh
Surr: p-Bromofluorobenzene	110	%REC		80-120		E524.2	07/03/12 00:30 / jmh
Surr: 1,2-Dichloroethane-d4	135	%REC	S	74-127		E524.2	07/03/12 00:30 / jmh
Surr: Toluene-d8	104	%REC		80-120		E524.2	07/03/12 00:30 / jmh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Atkins North America Missoula
Project: Poplar PWS
Lab ID: B12062394-002
Client Sample ID 4298-COP1-TRE1,2,3

Report Date: 07/03/12
Collection Date: 06/26/12 09:30
DateReceived: 06/27/12
Matrix: Drinking Water

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
Solids, Total Dissolved TDS @ 180 C	1170	mg/L		10		A2540 C	06/28/12 13:01 / ser
INORGANICS							
Chloride	245	mg/L	D	2		E300.0	07/02/12 21:56 / jrs
Sulfate	240	mg/L	D	10		E300.0	07/02/12 21:56 / jrs
Bromide	ND	mg/L	D	5		E300.0	07/02/12 21:56 / jrs
METALS, TOTAL							
Barium	ND	mg/L		0.1		E200.7	06/28/12 18:25 / rlh
Calcium	68	mg/L		1		E200.7	06/28/12 18:25 / rlh
Lithium	0.129	mg/L		0.005		E200.7	06/28/12 18:25 / rlh
Manganese	0.08	mg/L		0.01		E200.7	06/28/12 18:25 / rlh
Sodium	354	mg/L		1		E200.7	06/28/12 18:25 / rlh
Strontium	0.7	mg/L		0.1		E200.7	06/28/12 18:25 / rlh
VOLATILE ORGANIC COMPOUNDS							
Benzene	ND	ug/L		0.50	5	E524.2	07/03/12 01:00 / jmh
Ethylbenzene	ND	ug/L		0.50	700	E524.2	07/03/12 01:00 / jmh
Toluene	ND	ug/L		0.50	1000	E524.2	07/03/12 01:00 / jmh
m+p-Xylenes	ND	ug/L		0.50		E524.2	07/03/12 01:00 / jmh
o-Xylene	ND	ug/L		0.50		E524.2	07/03/12 01:00 / jmh
Xylenes, Total	ND	ug/L		0.50	10000	E524.2	07/03/12 01:00 / jmh
Surr: p-Bromofluorobenzene	104	%REC		80-120		E524.2	07/03/12 01:00 / jmh
Surr: 1,2-Dichloroethane-d4	138	%REC	S	74-127		E524.2	07/03/12 01:00 / jmh
Surr: Toluene-d8	106	%REC		80-120		E524.2	07/03/12 01:00 / jmh

Report Definitions:
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ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Atkins North America Missoula
Project: Poplar PWS
Lab ID: B12062394-003
Client Sample ID 4298-COP1-DIST1,2,3

Report Date: 07/03/12
Collection Date: 06/26/12 10:00
DateReceived: 06/27/12
Matrix: Drinking Water

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
Solids, Total Dissolved TDS @ 180 C	1220	mg/L		10		A2540 C	06/28/12 13:01 / ser
INORGANICS							
Chloride	248	mg/L	D	2		E300.0	07/02/12 22:11 / jrs
Sulfate	241	mg/L	D	10		E300.0	07/02/12 22:11 / jrs
Bromide	ND	mg/L	D	5		E300.0	07/02/12 22:11 / jrs
METALS, TOTAL							
Barium	ND	mg/L		0.1		E200.7	06/28/12 12:44 / rlh
Calcium	67	mg/L		1		E200.7	06/28/12 12:44 / rlh
Lithium	0.128	mg/L		0.005		E200.7	06/28/12 12:44 / rlh
Manganese	ND	mg/L		0.01		E200.7	06/28/12 12:44 / rlh
Sodium	352	mg/L		1		E200.7	06/28/12 12:44 / rlh
Strontium	0.7	mg/L		0.1		E200.7	06/28/12 12:44 / rlh
VOLATILE ORGANIC COMPOUNDS							
Benzene	ND	ug/L		0.50	5	E524.2	07/03/12 01:30 / jmh
Ethylbenzene	ND	ug/L		0.50	700	E524.2	07/03/12 01:30 / jmh
Toluene	ND	ug/L		0.50	1000	E524.2	07/03/12 01:30 / jmh
m+p-Xylenes	ND	ug/L		0.50		E524.2	07/03/12 01:30 / jmh
o-Xylene	ND	ug/L		0.50		E524.2	07/03/12 01:30 / jmh
Xylenes, Total	ND	ug/L		0.50	10000	E524.2	07/03/12 01:30 / jmh
Surr: p-Bromofluorobenzene	106	%REC		80-120		E524.2	07/03/12 01:30 / jmh
Surr: 1,2-Dichloroethane-d4	135	%REC	S	74-127		E524.2	07/03/12 01:30 / jmh
Surr: Toluene-d8	106	%REC		80-120		E524.2	07/03/12 01:30 / jmh

Report Definitions:
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QCL - Quality control limit.
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MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Atkins North America Missoula
Project: Poplar PWS
Lab ID: B12062394-004
Client Sample ID 4298-COP4-UNT1,2,3

Report Date: 07/03/12
Collection Date: 06/26/12 08:00
DateReceived: 06/27/12
Matrix: Drinking Water

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
Solids, Total Dissolved TDS @ 180 C	1180	mg/L		10		A2540 C	06/28/12 13:01 / ser
INORGANICS							
Chloride	229	mg/L	D	2		E300.0	07/02/12 22:26 / jrs
Sulfate	239	mg/L	D	10		E300.0	07/02/12 22:26 / jrs
Bromide	ND	mg/L	D	5		E300.0	07/02/12 22:26 / jrs
METALS, TOTAL							
Barium	ND	mg/L		0.1		E200.7	06/28/12 12:48 / rlh
Calcium	66	mg/L		1		E200.7	06/28/12 12:48 / rlh
Lithium	0.125	mg/L		0.005		E200.7	06/28/12 12:48 / rlh
Manganese	0.54	mg/L		0.01		E200.7	06/28/12 12:48 / rlh
Sodium	344	mg/L		1		E200.7	06/28/12 12:48 / rlh
Strontium	0.7	mg/L		0.1		E200.7	06/28/12 12:48 / rlh
VOLATILE ORGANIC COMPOUNDS							
Benzene	ND	ug/L		0.50	5	E524.2	07/03/12 02:00 / jmh
Ethylbenzene	ND	ug/L		0.50	700	E524.2	07/03/12 02:00 / jmh
Toluene	ND	ug/L		0.50	1000	E524.2	07/03/12 02:00 / jmh
m+p-Xylenes	ND	ug/L		0.50		E524.2	07/03/12 02:00 / jmh
o-Xylene	ND	ug/L		0.50		E524.2	07/03/12 02:00 / jmh
Xylenes, Total	ND	ug/L		0.50	10000	E524.2	07/03/12 02:00 / jmh
Surr: p-Bromofluorobenzene	110	%REC		80-120		E524.2	07/03/12 02:00 / jmh
Surr: 1,2-Dichloroethane-d4	138	%REC	S	74-127		E524.2	07/03/12 02:00 / jmh
Surr: Toluene-d8	102	%REC		80-120		E524.2	07/03/12 02:00 / jmh

Report Definitions:
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QCL - Quality control limit.
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MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Atkins North America Missoula
Project: Poplar PWS
Lab ID: B12062394-005
Client Sample ID Trip Blank Lot040512 B-TS SHP0255

Report Date: 07/03/12
Collection Date: 06/26/12 08:00
DateReceived: 06/27/12
Matrix: Trip Blank

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Benzene	ND	ug/L		0.50	5	E524.2	06/30/12 08:06 / jmh
Ethylbenzene	ND	ug/L		0.50	700	E524.2	06/30/12 08:06 / jmh
Toluene	ND	ug/L		0.50	1000	E524.2	06/30/12 08:06 / jmh
m+p-Xylenes	ND	ug/L		0.50		E524.2	06/30/12 08:06 / jmh
o-Xylene	ND	ug/L		0.50		E524.2	06/30/12 08:06 / jmh
Xylenes, Total	ND	ug/L		0.50	10000	E524.2	06/30/12 08:06 / jmh
Surr: p-Bromofluorobenzene	103	%REC		80-120		E524.2	06/30/12 08:06 / jmh
Surr: 1,2-Dichloroethane-d4	134	%REC	S	74-127		E524.2	06/30/12 08:06 / jmh
Surr: Toluene-d8	101	%REC		80-120		E524.2	06/30/12 08:06 / jmh

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
S - Spike recovery outside of advisory limits.
MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Atkins North America Missoula
Report Date: 07/03/12
Project: Poplar PWS
Work Order: B12062394

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C									Batch: TDS120628B	
Sample ID: MBLK4		Method Blank				Run: BAL #11_120628B			06/28/12 13:00	
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	6						
Sample ID: LCS4		Laboratory Control Sample				Run: BAL #11_120628B			06/28/12 13:00	
Solids, Total Dissolved TDS @ 180 C		1970	mg/L	10	99	90	110			
Sample ID: B12062389-001A MS		Sample Matrix Spike				Run: BAL #11_120628B			06/28/12 13:00	
Solids, Total Dissolved TDS @ 180 C		2490	mg/L	10	101	90	110			
Sample ID: B12062394-001A DUP		Sample Duplicate				Run: BAL #11_120628B			06/28/12 13:01	
Solids, Total Dissolved TDS @ 180 C		1210	mg/L	10		90	110	0.7	5	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Atkins North America Missoula **Report Date:** 07/03/12

Project: Poplar PWS **Work Order:** B12062394

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Analytical Run: ICP203-B_120628A	
Sample ID: ICV	6	Continuing Calibration Verification Standard							06/28/12 11:30	
Barium		2.46	mg/L	0.10	98	95	105			
Calcium		25.6	mg/L	1.0	102	95	105			
Lithium		1.31	mg/L	0.10	105	95	105			
Manganese		2.45	mg/L	0.010	98	95	105			
Sodium		25.7	mg/L	1.0	103	95	105			
Strontium		2.49	mg/L	0.10	100	95	105			
Method: E200.7									Batch: 63439	
Sample ID: MB-63439	6	Method Blank				Run: ICP203-B_120628A			06/28/12 17:39	
Barium		ND	mg/L	0.10						
Calcium		ND	mg/L	1.0						
Lithium		0.00224	mg/L	0.0050						
Manganese		ND	mg/L	0.010						
Sodium		ND	mg/L	1.0						
Strontium		ND	mg/L	0.10						
Sample ID: LCS-63439	5	Laboratory Control Sample				Run: ICP203-B_120628A			06/28/12 17:42	
Barium		0.518	mg/L	0.050	104	85	115			
Calcium		25.6	mg/L	1.0	102	85	115			
Manganese		2.46	mg/L	0.0010	99	85	115			
Sodium		27.1	mg/L	1.0	108	85	115			
Strontium		0.525	mg/L	0.010	105	85	115			
Sample ID: B12062293-002BMS3	6	Sample Matrix Spike				Run: ICP203-B_120628A			06/28/12 18:06	
Barium		0.512	mg/L	0.050	102	70	130			
Calcium		66.9	mg/L	1.0	100	70	130			
Lithium		0.838	mg/L	0.10	102	70	130			
Manganese		2.45	mg/L	0.0010	97	70	130			
Sodium		542	mg/L	1.0		70	130			A
Strontium		1.86	mg/L	0.010	101	70	130			
Sample ID: B12062293-002BMSD3	6	Sample Matrix Spike Duplicate				Run: ICP203-B_120628A			06/28/12 18:17	
Barium		0.558	mg/L	0.050	111	70	130	8.7	20	
Calcium		69.5	mg/L	1.0	110	70	130	3.7	20	
Lithium		0.883	mg/L	0.10	111	70	130	5.3	20	
Manganese		2.69	mg/L	0.0010	107	70	130	9.4	20	
Sodium		541	mg/L	1.0		70	130	0.2	20	A
Strontium		1.90	mg/L	0.010	110	70	130	2.4	20	
Method: E200.7									Batch: R187613	
Sample ID: MB-6500DIS120628B	6	Method Blank				Run: ICP203-B_120628A			06/28/12 11:54	
Barium		ND	mg/L	0.0009						
Calcium		0.08	mg/L	0.06						
Lithium		0.002	mg/L	0.0007						
Manganese		ND	mg/L	0.0005						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Atkins North America Missoula **Report Date:** 07/03/12

Project: Poplar PWS **Work Order:** B12062394

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										Batch: R187613
Sample ID: MB-6500DIS120628B	6	Method Blank				Run: ICP203-B_120628A			06/28/12 11:54	
Sodium		ND	mg/L	0.02						
Strontium		ND	mg/L	0.0001						
Sample ID: LFB-6500DIS120628B	6	Laboratory Fortified Blank				Run: ICP203-B_120628A			06/28/12 11:58	
Barium		0.977	mg/L	0.10	98	85	115			
Calcium		50.1	mg/L	1.0	100	85	115			
Lithium		1.02	mg/L	0.10	102	85	115			
Manganese		4.91	mg/L	0.010	98	85	115			
Sodium		51.3	mg/L	1.0	103	85	115			
Strontium		1.00	mg/L	0.10	100	85	115			
Sample ID: B12062295-001CMS2	6	Sample Matrix Spike				Run: ICP203-B_120628A			06/28/12 12:33	
Barium		2.04	mg/L	0.050	102	70	130			
Calcium		117	mg/L	1.0	100	70	130			
Lithium		2.67	mg/L	0.10	126	70	130			
Manganese		9.94	mg/L	0.0010	99	70	130			
Sodium		325	mg/L	1.0	106	70	130			
Strontium		2.67	mg/L	0.010	104	70	130			
Sample ID: B12062295-001CMSD2	6	Sample Matrix Spike Duplicate				Run: ICP203-B_120628A			06/28/12 12:37	
Barium		2.08	mg/L	0.050	104	70	130	1.8	20	
Calcium		117	mg/L	1.0	101	70	130	0.2	20	
Lithium		2.76	mg/L	0.10	130	70	130	3.1	20	
Manganese		9.98	mg/L	0.0010	100	70	130	0.4	20	
Sodium		329	mg/L	1.0	110	70	130	1.3	20	
Strontium		2.70	mg/L	0.010	105	70	130	1.0	20	
Sample ID: B12062380-020BMS2	6	Sample Matrix Spike				Run: ICP203-B_120628A			06/28/12 15:17	
Barium		4.89	mg/L	0.050	98	70	130			
Calcium		398	mg/L	1.0	94	70	130			
Lithium		5.12	mg/L	0.10	100	70	130			
Manganese		23.5	mg/L	0.0026	94	70	130			
Sodium		675	mg/L	2.1	97	70	130			
Strontium		13.9	mg/L	0.010	88	70	130			
Sample ID: B12062380-020BMSD2	6	Sample Matrix Spike Duplicate				Run: ICP203-B_120628A			06/28/12 15:21	
Barium		5.02	mg/L	0.050	100	70	130	2.7	20	
Calcium		409	mg/L	1.0	98	70	130	2.6	20	
Lithium		5.28	mg/L	0.10	104	70	130	3.1	20	
Manganese		24.4	mg/L	0.0026	97	70	130	3.5	20	
Sodium		685	mg/L	2.1	101	70	130	1.5	20	
Strontium		14.3	mg/L	0.010	95	70	130	2.7	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Atkins North America Missoula
Report Date: 07/03/12
Project: Poplar PWS
Work Order: B12062394

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										Batch: 63439
Sample ID: MB-63439		Method Blank				Run: ICP203-B_120629A				06/29/12 23:21
Lithium		ND	mg/L	0.0050						
Sample ID: LCS-63439		Laboratory Control Sample				Run: ICP203-B_120629A				06/29/12 23:24
Lithium		0.569	mg/L	0.10	114	85	115			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Atkins North America Missoula **Report Date:** 07/03/12

Project: Poplar PWS **Work Order:** B12062394

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0									Analytical Run: IC202-B_120627A	
Sample ID: ICV062712-11	3	Initial Calibration Verification Standard							06/27/12 16:52	
Chloride		24.5	mg/L	1.0	98	90	110			
Sulfate		99.7	mg/L	1.0	100	90	110			
Bromide		11.8	mg/L	0.50	95	90	110			
Method: E300.0									Batch: R187570	
Sample ID: ICB062712-12	3	Method Blank				Run: IC202-B_120627A			06/27/12 17:07	
Chloride		0.09	mg/L	0.04						
Sulfate		ND	mg/L	0.07						
Bromide		ND	mg/L	0.05						
Sample ID: LFB062712-13	3	Laboratory Fortified Blank				Run: IC202-B_120627A			06/27/12 17:22	
Chloride		24.5	mg/L	1.0	98	90	110			
Sulfate		99.2	mg/L	1.1	99	90	110			
Bromide		48.4	mg/L	0.53	97	90	110			
Sample ID: B12062283-002AMS	3	Sample Matrix Spike				Run: IC202-B_120627A			06/30/12 00:04	
Chloride		58.1	mg/L	1.0	104	90	110			
Sulfate		1050	mg/L	2.1		90	110			A
Bromide		99.2	mg/L	1.1	99	90	110			
Sample ID: B12062283-002AMSD	3	Sample Matrix Spike Duplicate				Run: IC202-B_120627A			06/30/12 00:19	
Chloride		58.7	mg/L	1.0	105	90	110	1.1	20	
Sulfate		1050	mg/L	2.1		90	110	0.2	20	A
Bromide		100	mg/L	1.1	100	90	110	0.9	20	
Sample ID: B12062365-001AMS	3	Sample Matrix Spike				Run: IC202-B_120627A			07/02/12 14:32	
Chloride		535	mg/L	5.3	100	90	110			
Sulfate		7550	mg/L	21	102	90	110			
Bromide		988	mg/L	11	99	90	110			
Sample ID: B12062365-001AMSD	3	Sample Matrix Spike Duplicate				Run: IC202-B_120627A			07/02/12 14:47	
Chloride		537	mg/L	5.3	101	90	110	0.5	20	
Sulfate		7680	mg/L	21	109	90	110	1.8	20	
Bromide		991	mg/L	11	99	90	110	0.2	20	
Sample ID: B12062380-022AMS	3	Sample Matrix Spike				Run: IC202-B_120627A			07/02/12 20:56	
Chloride		75.7	mg/L	1.0	111	90	110			S
Sulfate		2850	mg/L	2.1		90	110			A
Bromide		103	mg/L	1.1	103	90	110			
Sample ID: B12062380-022AMSD	3	Sample Matrix Spike Duplicate				Run: IC202-B_120627A			07/02/12 21:11	
Chloride		75.0	mg/L	1.0	110	90	110	1.0	20	
Sulfate		2830	mg/L	2.1		90	110	0.6	20	A
Bromide		102	mg/L	1.1	101	90	110	1.1	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Atkins North America Missoula **Report Date:** 07/03/12

Project: Poplar PWS **Work Order:** B12062394

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E524.2								Analytical Run: R187777	
Sample ID: ccva062912	Continuing Calibration Verification Standard							06/29/12 21:57	
Benzene	5.60	ug/L	0.50	112	70	130			
Ethylbenzene	5.68	ug/L	0.50	114	70	130			
Toluene	5.56	ug/L	0.50	111	70	130			
m+p-Xylenes	11.3	ug/L	0.50	113	70	130			
o-Xylene	5.28	ug/L	0.50	106	70	130			
Xylenes, Total	16.6	ug/L	0.50		0	0			
Surr: p-Bromofluorobenzene			0.50	103	80	120			
Surr: 1,2-Dichloroethane-d4			0.50	107	74	127			
Surr: Toluene-d8			0.50	107	80	120			
Method: E524.2								Batch: R187777	
Sample ID: lcsa062912	Laboratory Control Sample				Run: VOASATURN_120629B			06/29/12 22:27	
Benzene	5.36	ug/L	0.50	107	70	130			
Ethylbenzene	5.60	ug/L	0.50	112	70	130			
Toluene	5.28	ug/L	0.50	106	70	130			
m+p-Xylenes	11.4	ug/L	0.50	114	70	130			
o-Xylene	5.24	ug/L	0.50	105	70	130			
Surr: p-Bromofluorobenzene			0.50	98	80	120			
Surr: 1,2-Dichloroethane-d4			0.50	99	74	127			
Surr: Toluene-d8			0.50	101	80	120			
Sample ID: blka062912	Method Blank				Run: VOASATURN_120629B			06/29/12 23:28	
Benzene	ND	ug/L	0.50						
Ethylbenzene	ND	ug/L	0.50						
Toluene	ND	ug/L	0.50						
m+p-Xylenes	ND	ug/L	0.50						
o-Xylene	ND	ug/L	0.50						
Xylenes, Total	ND	ug/L	0.50						
Surr: p-Bromofluorobenzene			0.50	106	80	120			
Surr: 1,2-Dichloroethane-d4			0.50	106	74	127			
Surr: Toluene-d8			0.50	103	80	120			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Atkins North America Missoula **Report Date:** 07/03/12

Project: Poplar PWS **Work Order:** B12062394

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E524.2								Analytical Run: R187895	
Sample ID: ccva070212	Continuing Calibration Verification Standard							07/02/12 21:58	
Benzene	5.48	ug/L	0.50	110	70	130			
Ethylbenzene	5.60	ug/L	0.50	112	70	130			
Toluene	5.28	ug/L	0.50	106	70	130			
m+p-Xylenes	11.4	ug/L	0.50	114	70	130			
o-Xylene	5.28	ug/L	0.50	106	70	130			
Xylenes, Total	16.7	ug/L	0.50		0	0			
Surr: p-Bromofluorobenzene			0.50	107	80	120			
Surr: 1,2-Dichloroethane-d4			0.50	105	74	127			
Surr: Toluene-d8			0.50	104	80	120			
Method: E524.2								Batch: R187895	
Sample ID: lcsa070212	Laboratory Control Sample				Run: VOASATURN_120702B			07/02/12 22:28	
Benzene	5.36	ug/L	0.50	107	70	130			
Ethylbenzene	5.44	ug/L	0.50	109	70	130			
Toluene	5.28	ug/L	0.50	106	70	130			
m+p-Xylenes	11.9	ug/L	0.50	119	70	130			
o-Xylene	5.20	ug/L	0.50	104	70	130			
Surr: p-Bromofluorobenzene			0.50	106	80	120			
Surr: 1,2-Dichloroethane-d4			0.50	110	74	127			
Surr: Toluene-d8			0.50	105	80	120			
Sample ID: blka070212	Method Blank				Run: VOASATURN_120702B			07/02/12 23:29	
Benzene	ND	ug/L	0.50						
Ethylbenzene	ND	ug/L	0.50						
Toluene	ND	ug/L	0.50						
m+p-Xylenes	ND	ug/L	0.50						
o-Xylene	ND	ug/L	0.50						
Xylenes, Total	ND	ug/L	0.50						
Surr: p-Bromofluorobenzene			0.50	110	80	120			
Surr: 1,2-Dichloroethane-d4			0.50	110	74	127			
Surr: Toluene-d8			0.50	101	80	120			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

Standard Reporting Procedures

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

Workorder Receipt Checklist

Atkins North America Missoula B12062394

Login completed by: Jill M. Lippard
Date Received: 6/27/2012
Reviewed by: Krystal McDonald
Received by: ser
Reviewed Date: 6/28/2012
Carrier name: Return-UPS Ground

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.)	Yes ☑	No ☐	
Container/Temp Blank temperature:	1.5°C On Ice		
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	Not Applicable ☐

Contact and Corrective Action Comments:

None

Chain of Custody and Analytical Request Record

PLEASE PRINT (Provide as much information as possible.)

Company Name: ATKINS NORTH AMERICA, INC.	Project Name, PWS, Permit, Etc.: POPLAR PWS	Sample Origin State: MT	EPA/State Compliance: Yes ☐ No ☐
Report Mail Address: 1120 CEDAR ST MISSOULA, MT 59802	Contact Name: BRENT MERRITT Phone/Fax: 406 240-0573 Email: BRENT.MERRITT@ATKINSGLOBAL.COM		Sampler: (Please Print) B. MERRITT
Invoice Address: SAME	Invoice Contact & Phone: CHRIS MATT 406 532-7275	Purchase Order: 100004298	Quote/Bottle Order: 58284

Special Report/Formats:

☐ DW
☐ POTW/WWTP
☐ State: _____
☐ Other: _____
☐ EDD/EDT (Electronic Data) Format: _____
☐ LEVEL IV
☐ NELAC

ANALYSIS REQUESTED

Contact ELI prior to **RUSH** sample submittal for charges and scheduling – See Instruction Page

Comments:

Shipped By: RTN UPS GROUND
Cooler ID(s):
Receipt Temp 1.5 °C
On Ice: (Y) N
Custody Seal On Bottle (Y) N; On Cooler (Y) N
Intact (Y) N
Signature Match (Y) N

#	SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX (Number of Containers; Sample Type: A W S V B O DW; Air Water Soils/Solids Vegetation Bioassay Other DW - Drinking Water)	TDS, SULFATE	BROMIDE, CHLORIDE	E524.2 BTEX ONLY	Ba Ca Li (T)	Mn Na, Sr (T)					SEE ATTACHED	Standard Turnaround (TAT)	RUSH	Comments	LABORATORY USE ONLY
1	4298-COP1-UNT1	6/26/12	900	1W	X	X									X			B12062394-001
2	4298-COP1-UNT2	↓	↓	3W			X								X			↓
3	4298-COP1-UNT3			1W				X	X						X			/
4	4298-COP1-TRE1		930	1W	X	X									X			-002
5	4298-COP1-TRE2		↓	3W			X								X			↓
6	4298-COP1-TRE3			1W				X	X						X			/
7	4298-COP1-DIST1		1000	1W	X	X									X			-003
8	4298-COP1-DIST2		↓	3W			X								X			↓
9	4298-COP1-DIST3			1W				X	X						X			
10	4298-COP4-UNT1		800	1W	X	X									X			-004

Custody Record MUST be Signed

Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
BRENT E. MERRITT	6/26/12 1100	Brent Merritt			
Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
			Received by Laboratory: Sydni Crain	Date/Time: 6/27/12 9:00am	Signature:

Sample Disposal: Return to Client: _____ Lab Disposal: X

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.

Chain of Custody and Analytical Request Record

PLEASE PRINT (Provide as much information as possible.)

Company Name:	Project Name, PWS, Permit, Etc.	Sample Origin	EPA/State Compliance:
ATKINS NA, INC.	POPLAR PWS	State:	Yes ☐ No ☐
Report Mail Address:	Contact Name: Phone/Fax:	Email:	Sampler: (Please Print) 58284
Invoice Address:	Invoice Contact & Phone:	Purchase Order: 10000 4298	Quote/Bottle Order: 58284

Special Report/Formats:

☐ DW ☐ EDD/EDT (Electronic Data)
☐ POTW/WWTP Format: _____
☐ State: _____ ☐ LEVEL IV
☐ Other: _____ ☐ NELAC

ANALYSIS REQUESTED

SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX (Number of Containers; Sample Type: A W S V B O DW; Air Water Soils/Solids Vegetation Bioassay Other DW - Drinking Water)	E524.2 TSTEX ONLY	Ba, Ca, Li (T) Mn, Na, Sr (T)								SEE ATTACHED	Standard Turnaround (TAT)	RUSH	Comments:	LABORATORY USE ONLY
1 4298-COMP-UNT 2	6/26/12	800	3W	X										X			B12062394-004
2 4298-COMP-UNT 3	↓	800	1W		X	X								X			↓
3																	
4 TRIP BLANK 040512	TSSHP0255		1W											X			-05
5 ~~TEMP BLANK~~ BZM			~~1W~~	BZM										X			
6																	
7																	
8																	
9																	
10																	

Contact ELI prior to **RUSH** sample submittal for charges and scheduling – See Instruction Page

Shipped by: RTN WAS GRD
Cooler ID(s):
Receipt Temp 1.5 °C
On Ice: Y N
Custody Seal: On Bottle N; On Cooler Y N
Intact Y N
Signature Match Y N

Custody Record MUST be Signed

Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
BRENT E MERRITT	6/26/12 1100	Brent E Merritt			
Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
			Received by Laboratory: Sydni I Rau	6/27/12	9:00am

Sample Disposal: Return to Client: _____ Lab Disposal: X

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report.
Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and lin