

GALENA, CITY OF Attn: Mr. Howard Beasley PO Box 149

Galena, AK 99741 907-656-2132 Fax: 907-656-1769

Client Sample ID: #1 Well (West Well)

Sampling Location: #1 Well (West Well)

Client Project: 2016 CMP-GALENA WATER SYSTEM WTP-1

Sample Matrix: Drinking Water

.

PWS#: 360272

Comments:

ARS Aleut Analytical, LLC

475 Hall St.

Fairbanks, AK 99701 Phone: 907-456-3116

Fax: 907-456-3125

Report Date: 1/6/2017 Receipt Date: 11/29/2016 Sample Date: 11/29/2016 Sample Time: 9:45:00AM

Collected By: HB

Flag Definitions:

MRL = Method Reporting Limit
MCL = Maximum Contaminant Limit
B = Present also in Method Blank
H = Exceeds Regulatory Limit
M = Matrix Interference

M = Matrix Interference J = Estimated Value

D =Sample Dilution Required

** = RL higher than MCL; target not detected TNC = Too Numerous to Count - result rejected

CF = Confluent Growth - result rejected

TCNG = Turbid Culture No Growth - rejected

Lab#: F1612001-01A

Analysis Method Parameter	Result	Units	Flags	MRL	MCL	Dil Factor	Prep Date	Analys Date		Analyst
537/537 (Aqueous) - per	rfluoro in I	OW-EEA			Test was	s conducte	ed by: Eu	rofins Eate	on And	alytical (EEA)
N-ethyl perfluorooctane sulfonamidoacetic acid	<mrl< td=""><td>ng/L</td><td></td><td>4.0</td><td></td><td>1</td><td>12/13/201</td><td>612/13/16</td><td>19:41</td><td>CM</td></mrl<>	ng/L		4.0		1	12/13/201	612/13/16	19:41	CM
N-methylperfluorooctane sulfonamidoacetic acid	<mrl< td=""><td>ng/L</td><td></td><td>4.0</td><td></td><td>1</td><td>12/13/201</td><td>612/13/16</td><td>19:41</td><td>СМ</td></mrl<>	ng/L		4.0		1	12/13/201	612/13/16	19:41	СМ
Perfluorobutanesulfonic acid (PFBS)	<mrl< td=""><td>ng/L</td><td></td><td>2.0</td><td></td><td></td><td></td><td></td><td></td><td></td></mrl<>	ng/L		2.0						
Perfluorodecanoic acid	<mrl< td=""><td>ng/L</td><td></td><td>2.0</td><td></td><td>1</td><td>12/13/201</td><td>612/13/16</td><td>19:41</td><td>CM</td></mrl<>	ng/L		2.0		1	12/13/201	612/13/16	19:41	CM
Perfluorododecanoic acid	<mrl< td=""><td>ng/L</td><td></td><td>2.0</td><td></td><td></td><td>12/13/201</td><td>612/13/16</td><td>19-41</td><td>CM</td></mrl<>	ng/L		2.0			12/13/201	612/13/16	19-41	CM
Perfluoroheptanoic acid (PFHpA)	<mrl< td=""><td>ng/L</td><td></td><td>2.0</td><td></td><td>1</td><td></td><td>612/13/16</td><td></td><td></td></mrl<>	ng/L		2.0		1		612/13/16		
Perfluorohexanesulfonic acid (PFHxS)	<mrl< td=""><td>ng/L</td><td></td><td>2.0</td><td></td><td>1</td><td>12/13/201</td><td>612/13/16</td><td>19:41</td><td>CM</td></mrl<>	ng/L		2.0		1	12/13/201	612/13/16	19:41	CM
Perfluorohexanoic acid	<mrl< td=""><td>ng/L</td><td></td><td>2.0</td><td></td><td>1</td><td>12/13/201</td><td>6 12/13/16</td><td>19:41</td><td>CM</td></mrl<>	ng/L		2.0		1	12/13/201	6 12/13/16	19:41	CM
						1	12/13/201	612/13/16	19:41	CM



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537/537 (Aqueous) - pe	rfluoro in I	OW-EEA			Test was	conducte	d by: Eur	rofins Eato	n And	alytical (EEA)
Perfluorononanoic acid (PFNA)	<mrl< td=""><td>ng/L</td><td></td><td>2.0</td><td></td><td>1</td><td>12/13/201</td><td>612/13/16</td><td>19:41</td><td>CM</td></mrl<>	ng/L		2.0		1	12/13/201	612/13/16	19:41	CM
Perfluorooctanesulfonic acid (PFOS)	<mrl< td=""><td>ng/L</td><td></td><td>2.0</td><td></td><td>1</td><td>12/13/201</td><td>612/13/16</td><td>19:41</td><td>CM</td></mrl<>	ng/L		2.0		1	12/13/201	612/13/16	19:41	CM
Perfluorooctanoic acid	<mrl< td=""><td>ng/L</td><td></td><td>2.0</td><td></td><td>1</td><td>12/13/201</td><td>612/13/16</td><td>19:41</td><td>CM</td></mrl<>	ng/L		2.0		1	12/13/201	612/13/16	19:41	CM
(PFOA)						1	12/13/201	612/13/16	19:41	CM
Perfluorotetradecanoic acid	<mrl< td=""><td>ng/L</td><td></td><td>2.0</td><td></td><td>1</td><td>12/13/201</td><td>612/13/16</td><td>19:41</td><td>CM</td></mrl<>	ng/L		2.0		1	12/13/201	612/13/16	19:41	CM
Perfluorotridecanoic acid	<mrl< td=""><td>ng/L</td><td></td><td>2.0</td><td></td><td>1</td><td>12/13/201</td><td>612/13/16</td><td>19:41</td><td>CM</td></mrl<>	ng/L		2.0		1	12/13/201	612/13/16	19:41	CM
Perfluoroundecanoic acid	<mrl< td=""><td>ng/L</td><td></td><td>2.0</td><td></td><td></td><td></td><td></td><td></td><td></td></mrl<>	ng/L		2.0						



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Galena, AK 99741 907-656-2132 Fax: 907-656-1769

Client Sample ID: #2 Well (East Well)

Sampling Location: #2 Well (East Well)

360272

Client Project: 2016 CMP-GALENA WATER SYSTEM WTP-1

Sample Matrix: Drinking Water

Comments:

PWS#:

ARS Aleut Analytical, LLC 475 Hall St.

Fairbanks, AK 99701

Phone: 907-456-3116 Fax: 907-456-3125

Report Date: 1/6/2017

Receipt Date: 11/29/2016

Sample Date: 11/29/2016

Sample Time: 9:20:00AM

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Lab#: F1612001-02A

Analysis Method						Dil	Prep	Analysis	
Parameter	Result	Units	Flags	MRL	MCL	Factor	Date	Date	Analyst
537/537 (Aqueous) - per	rfluoro in E	OW-EEA			Test wa	s conducte	ed by: Eu	rofins Eaton A	Analytical (EEA)
N-ethylperfluorooctanesulfon amidoacetic acid	<mrl< td=""><td>ng/L</td><td></td><td>4.0</td><td></td><td>1</td><td>12/13/201</td><td>612/13/16 19:</td><td>57 CM</td></mrl<>	ng/L		4.0		1	12/13/201	612/13/16 19:	57 CM
N-methylperfluorooctane sulfonamidoacetic acid	<mrl< td=""><td>ng/L</td><td></td><td>4.0</td><td></td><td>1</td><td>12/13/201</td><td>612/13/16 19:</td><td>57 CM</td></mrl<>	ng/L		4.0		1	12/13/201	612/13/16 19:	57 CM
Perfluorobutanesulfonic acid (PFBS)	<mrl< td=""><td>ng/L</td><td></td><td>2.0</td><td></td><td></td><td></td><td></td><td></td></mrl<>	ng/L		2.0					
Perfluorodecanoic acid	<mrl< td=""><td>ng/L</td><td></td><td>2.0</td><td></td><td>1</td><td>12/13/201</td><td>612/13/16 19:</td><td>57 CM</td></mrl<>	ng/L		2.0		1	12/13/201	612/13/16 19:	57 CM
Perfluorododecanoic acid	<mrl< td=""><td>ng/L</td><td></td><td>2.0</td><td></td><td>1</td><td>12/13/201</td><td>612/13/16 19:</td><td>57 CM</td></mrl<>	ng/L		2.0		1	12/13/201	612/13/16 19:	57 CM
Perfluoroheptanoic acid (PFHpA)	<mrl< td=""><td>ng/L</td><td></td><td>2.0</td><td></td><td>1</td><td></td><td>612/13/16 19:</td><td></td></mrl<>	ng/L		2.0		1		612/13/16 19:	
Perfluorohexanesulfonic acid (PFHxS)	<mrl< td=""><td>ng/L</td><td></td><td>2.0</td><td></td><td>1</td><td>12/13/201</td><td>612/13/16 19:</td><td>57 CM</td></mrl<>	ng/L		2.0		1	12/13/201	612/13/16 19:	57 CM
Perfluorohexanoic acid	<mrl< td=""><td>ng/L</td><td></td><td>2.0</td><td></td><td>1</td><td>12/13/201</td><td>612/13/16 19:</td><td>57 CM</td></mrl<>	ng/L		2.0		1	12/13/201	612/13/16 19:	57 CM
						1	12/13/201	612/13/16 19:	57 CM



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Sampling Location: #2 Well (East Well)

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Sample Matrix: Drinking Water

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Sample Date: 11/29/2016

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Lab#: F1612001-02A

Analysis Method						Dil	Prep	Analysis	5	
Parameter	Result	Units	Flags	MRL	MCL	Factor	Date	Date	A	nalyst
537/537 (Aqueous) - pe	rfluoro in [OW-EEA			Test was	conducte	ed by: Eu	rofins Eaton	Ana	lytical (EEA)
Perfluorononanoic acid (PFNA)	<mrl< td=""><td>ng/L</td><td></td><td>2.0</td><td></td><td>1</td><td>12/13/201</td><td>612/13/16 1</td><td>9:57</td><td>CM</td></mrl<>	ng/L		2.0		1	12/13/201	612/13/16 1	9:57	CM
Perfluorooctanesulfonic acid (PFOS)	<mrl< td=""><td>ng/L</td><td></td><td>2.0</td><td></td><td>1</td><td>12/13/201</td><td>1612/13/16 1</td><td>9:57</td><td>CM</td></mrl<>	ng/L		2.0		1	12/13/201	1612/13/16 1	9:57	CM
Perfluorooctanoic acid	<mrl< td=""><td>ng/L</td><td></td><td>2.0</td><td></td><td>1</td><td>12/13/201</td><td>612/13/16 1</td><td>9:57</td><td>CM</td></mrl<>	ng/L		2.0		1	12/13/201	612/13/16 1	9:57	CM
(PFOA)						1	12/13/201	612/13/16 1	9:57	CM
Perfluorotetradecanoic acid	<mrl< td=""><td>ng/L</td><td></td><td>2.0</td><td></td><td>1</td><td>12/13/201</td><td>612/13/16 1</td><td>9:57</td><td>CM</td></mrl<>	ng/L		2.0		1	12/13/201	612/13/16 1	9:57	CM
Perfluorotridecanoic acid	<mrl< td=""><td>ng/L</td><td></td><td>2.0</td><td></td><td>1</td><td>12/13/201</td><td>1612/13/16 1</td><td>9:57</td><td>CM</td></mrl<>	ng/L		2.0		1	12/13/201	1612/13/16 1	9:57	CM
Perfluoroundecanoic acid	<mrl< td=""><td>ng/L</td><td></td><td>2.0</td><td></td><td></td><td></td><td></td><td></td><td></td></mrl<>	ng/L		2.0						



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Client Sample ID: #2 Well (Backup)

Sampling Location: #2 Well (Backup)

Client Project: 2016 CMP-GALENA WATER SYSTEM WTP-1

Sample Matrix: Drinking Water

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Comments:

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Report Date: 1/6/2017

Receipt Date: 11/29/2016

Sample Date: 11/29/2016

Sample Time: 9:30:00AM

Collected By: HB

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Lab#:

F1612001-03A

Sample Comment: #2 Well (Backup Sample)

Analysis Method						Dil	Prep	Analysis	6	
Parameter	Result	Units	Flags	MRL	MCL	Factor		Date	A	nalyst
537/537 (Aqueous) - per	fluoro in I	OW-EEA			Test was conducted by: Eurofins Eaton Analy 1 12/13/201612/13/16 20:14 1 12/13/201612/13/16 20:14 1 12/13/201612/13/16 20:14					lytical (EEA)
N-ethylperfluorooctanesulfon amidoacetic acid	<mrl< td=""><td>ng/L</td><td></td><td>4.0</td><td></td><td>1</td><td>12/13/201</td><td>612/13/16 2</td><td>20:14</td><td>СМ</td></mrl<>	ng/L		4.0		1	12/13/201	612/13/16 2	20:14	СМ
N-methylperfluorooctane sulfonamidoacetic acid	<mrl< td=""><td>ng/L</td><td></td><td>4.0</td><td>2</td><td>1</td><td>12/13/201</td><td>612/13/16 2</td><td>0:14</td><td>CM</td></mrl<>	ng/L		4.0	2	1	12/13/201	612/13/16 2	0:14	CM
Perfluorobutanesulfonic acid (PFBS)	<mrl< td=""><td>ng/L</td><td></td><td>2.0</td><td></td><td></td><td></td><td></td><td></td><td></td></mrl<>	ng/L		2.0						
Perfluorodecanoic acid	<mrl< td=""><td>ng/L</td><td></td><td>2.0</td><td></td><td>1</td><td>12/13/201</td><td>612/13/16 2</td><td>20:14</td><td>CM</td></mrl<>	ng/L		2.0		1	12/13/201	612/13/16 2	20:14	CM
Perfluorododecanoic acid	<mrl< td=""><td>ng/L</td><td></td><td>2.0</td><td></td><td>1</td><td>12/13/201</td><td>612/13/16 2</td><td>0:14</td><td>СМ</td></mrl<>	ng/L		2.0		1	12/13/201	612/13/16 2	0:14	СМ
Perfluoroheptanoic acid (PFHpA)	<mrl< td=""><td>ng/L</td><td></td><td>2.0</td><td></td><td>1</td><td>12/13/201</td><td>612/13/16 2</td><td>20:14</td><td>CM</td></mrl<>	ng/L		2.0		1	12/13/201	612/13/16 2	20:14	CM
(ГГПРА)						1	12/13/201	612/13/16 2	20:14	CM



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Analysis Method						Dil	Prep	Analysis				
Parameter	Result	Units	Flags	MRL	MCL	Factor	Date	Date	Analyst			
537/537 (Aqueous) - perfluoro in DW-EEA Perfluorohexanesulfonic acid <mrl 2.0="" <mrl="" acid="" l="" ng="" perfluorohexanoic="" perfluorononanoic="" perfluorooctanesulfonic="" perfluorooctanoic="" pfhxs)="" pfna)="" pfos)="" pfos)<="" td=""><td></td><td colspan="8">Test was conducted by: Eurofins Eaton Analytic (EB</td></mrl>					Test was conducted by: Eurofins Eaton Analytic (EB							
Perfluorohexanesulfonic acid (PFHxS)	<mrl< td=""><td>ng/L</td><td></td><td>2.0</td><td></td><td>1</td><td>12/13/201</td><td>612/13/16 20:1</td><td></td></mrl<>	ng/L		2.0		1	12/13/201	612/13/16 20:1				
Perfluorohexanoic acid	<mrl< td=""><td>ng/L</td><td></td><td>2.0</td><td></td><td>1</td><td>12/13/201</td><td>6 12/13/16 20:1</td><td>4 CM</td></mrl<>	ng/L		2.0		1	12/13/201	6 12/13/16 20:1	4 CM			
Perfluorononanoic acid (PFNA)	<mrl< td=""><td>ng/L</td><td></td><td>2.0</td><td></td><td>1</td><td>12/13/201</td><td>612/13/16 20:1</td><td>4 CM</td></mrl<>	ng/L		2.0		1	12/13/201	612/13/16 20:1	4 CM			
Perfluorooctanesulfonic acid (PFOS)	<mrl< td=""><td>ng/L</td><td></td><td>2.0</td><td></td><td>1</td><td>12/13/201</td><td>612/13/16 20:1</td><td>4 CM</td></mrl<>	ng/L		2.0		1	12/13/201	612/13/16 20:1	4 CM			
Perfluorooctanoic acid	<mrl< td=""><td>ng/L</td><td></td><td>2.0</td><td></td><td>1</td><td>12/13/201</td><td>612/13/16 20:1</td><td>4 CM</td></mrl<>	ng/L		2.0		1	12/13/201	612/13/16 20:1	4 CM			
(PFOA)						1	12/13/201	612/13/16 20:1	4 CM			
Perfluorotetradecanoic acid	<mrl< td=""><td>ng/L</td><td></td><td>2.0</td><td></td><td>1</td><td>12/13/201</td><td>612/13/16 20:1</td><td>4 CM</td></mrl<>	ng/L		2.0		1	12/13/201	612/13/16 20:1	4 CM			
Perfluorotridecanoic acid	<mrl< td=""><td>ng/L</td><td></td><td>2.0</td><td></td><td>1</td><td>12/13/201</td><td>612/13/16 20:1</td><td>4 CM</td></mrl<>	ng/L		2.0		1	12/13/201	612/13/16 20:1	4 CM			
Perfluoroundecanoic acid	<mrl< td=""><td>ng/L</td><td></td><td>2.0</td><td></td><td></td><td></td><td></td><td></td></mrl<>	ng/L		2.0								