

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (866) 988-3757
1 800 566 LABS (1 800 566 5227)

Laboratory Report

for

Alum Beverages
906 N Lake St.
Burbank, CA 91502
Attention: Terry Horine

original issue date 09/18/2019

Date of Issue
06/02/2020

Sophia Liang
EUROFINS EATON
ANALYTICAL, LLC

SFL: Sophia F Liang
Project Manager

REPORT REVISED,
replaces the original report.

Report: 821072
Project: BW
Group: Blue Can FDA product



Utah ELCP CA00006

* Accredited in accordance with TNI 2016 and ISO/IEC 17025:2017.

* Laboratory certifies that the test results meet all **TNI 2016 and ISO/IEC 17025:2017** requirements unless noted under the individual analysis.

* Following the cover page are State Certification List, ISO 17025 Accredited Method List, Acknowledgement of Samples Received, Comments, Hits Report, Data Report, QC Summary, QC Report and Regulatory Forms, as applicable.

* Test results relate only to the sample(s) tested.

* Test results apply to the sample(s) as received, unless otherwise noted in the comments report (ISO/IEC 17025:2017).

* This report shall not be reproduced except in full, without the written approval of the laboratory.

* This report includes ISO/IEC 17025 and non-ISO 17025 accredited methods.

STATE CERTIFICATION LIST

State	Certification Number	State	Certification Number
Alabama	41060	Montana	Cert 0035
Arizona	AZ0778	Nebraska	Certified
Arkansas	Certified	Nevada	CA000062018
California	2813	New Hampshire *	2959
Colorado	Certified	New Jersey *	CA 008
Connecticut	PH-0107	New Mexico	Certified
Delaware	CA 006	New York *	11320
Florida *	E871024	North Carolina	06701
Georgia	947	North Dakota	R-009
Guam	18-005R	Oregon *	CA200003-005
Hawaii	Certified	Pennsylvania *	68-565
Idaho	Certified	Puerto Rico	Certified
Illinois *	200033	Rhode Island	LAO00326
Indiana	C-CA-01	South Carolina	87016
Iowa - Asbestos	413	South Dakota	Certified
Kansas *	E-10268	Tennessee	TN02839
Kentucky	90107	Texas *	T104704230-18-15
Louisiana *	LA180000	Utah (Primary AB) *	CA00006
Maine	CA0006	Vermont	VT0114
Maryland	224	Virginia *	460260
Commonwealth of Northern Marianas Is.	MP0004	Washington	C838
Massachusetts	M-CA006	EPA Region 5	Certified
Michigan	9906	Los Angeles County Sanitation Districts	10264
Mississippi	Certified		

* NELAP/TNI Recognized Accreditation Bodies

ISO/IEC 17025 Accredited Method List

The tests listed below are accredited and meet the requirements of ISO/IEC 17025 as verified by the ANSI-ASQ National Accreditation Board/A2LA.
Refer to Certificate and scope of accreditation (5890) found at: <https://www.eurofinsus.com/Eaton>

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Environ-mental (Drinking Water)	Environ-mental (Waste Water)	Water as a Component of Food and Bev/Bev/ Bottled Water
1,2,3-TCP (5 PPT & 0.5 PPT)	CA SRL 524M-TCP	x		x
1,4-Dioxane	EPA 522	x		x
2,3,7,8-TCDD	Modified EPA 1613B	x		x
Acrylamide	In House Method (2440)	x		x
Algal Toxins/Microcystin	In House Method (3570)			
Alkalinity	SM 2320B	x	x	x
Ammonia	EPA 350.1		x	x
Ammonia	SM 4500-NH3 H		x	x
Anions and DBPs by IC	EPA 300.0	x	x	x
Anions and DBPs by IC	EPA 300.1	x		x
Asbestos	EPA 100.2	x	x	
BOD / CBOD	SM 5210B		x	x
Bromate	In House Method (2447)	x		x
Carbamates	EPA 531.2	x		x
Carbonate as CO3	SM 2330B	x	x	x
Carbonyls	EPA 556	x		x
COD	EPA 410.4 / SM 5220D		x	
Chloramines	SM 4500-CL G	x	x	x
Chlorinated Acids	EPA 515.4	x		x
Chlorinated Acids	EPA 555	x		x
Chlorine Dioxide	SM 4500-CLO2 D Palin Test	x		x
Chlorine -Total/Free/ Combined Residual	SM 4500-Cl G	x	x	x
Conductivity	EPA 120.1		x	
Conductivity	SM 2510B	x	x	x
Corrosivity (Langelier Index)	SM 2330B	x		x
Cyanide, Amenable	SM 4500-CN G	x	x	
Cyanide, Free	SM 4500CN F	x	x	x
Cyanide, Total	EPA 335.4	x	x	x
Cyanogen Chloride (screen)	In House Method (2470)	x		x
Diquat and Paraquat	EPA 549.2	x		x
DBP/HAA	SM 6251B	x		x
Dissolved Oxygen	SM 4500-O G		x	x
DOC	SM 5310C	x		x
E. Coli	(MTF/EC+MUG)	x		x
E. Coli	CFR 141.21(f)(6)(i)	x		x
E. Coli	SM 9223		x	
E. Coli (Enumeration)	SM 9221B.1/ SM 9221F	x		x
E. Coli (Enumeration)	SM 9223B	x		x
EDB/DCBP	EPA 504.1	x		
EDB/DBCP and DBP	EPA 551.1	x		x
EDTA and NTA	In House Method (2454)	x		x
Endothall	EPA 548.1	x		x
Endothall	In-house Method (2445)	x		x
Enterococci	SM 9230B	x	x	
Fecal Coliform	SM 9221 E (MTF/EC)	x		
Fecal Coliform	SM 9221C, E (MTF/EC)		x	
Fecal Coliform (Enumeration)	SM 9221E (MTF/EC)	x		x
Fecal Coliform with Chlorine Present	SM 9221E		x	
Fecal Streptococci	SM 9230B	x	x	
Fluoride	SM 4500-F C	x	x	x
Glyphosate	EPA 547	x		x
Glyphosate + AMPA	In House Method (3618)	x		x
Gross Alpha/Beta	EPA 900.0	x	x	x
Gross Alpha Coprecipitation	SM 7110 C	x	x	x
Hardness	SM 2340B	x	x	x
Heterotrophic Bacteria	In House Method (2439)	x		x
Heterotrophic Bacteria	SM 9215 B	x		x
Hexavalent Chromium	EPA 218.6	x	x	x

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Environ-mental (Drinking Water)	Environ-mental (Waste Water)	Water as a Component of Food and Bev/Bev/ Bottled Water
Hexavalent Chromium	EPA 218.7	x		x
Hexavalent Chromium	SM 3500-Cr B		x	
Hormones	EPA 539	x		x
Hydroxide as OH Calc.	SM 2330B	x		x
Kjeldahl Nitrogen	EPA 351.2		x	
Legionella	Legiolert	x		x
Mercury	EPA 200.8	x		x
Metals	EPA 200.7 / 200.8	x	x	x
Microcystin LR	ELISA (2360)	x		x
Microcystin, Total	EPA 546	x		x
NDMA	EEA/Agilent 521.1 In house method (2425)	x		x
Nitrate/Nitrite Nitrogen	EPA 353.2	x	x	x
OCL, Pesticides/PCB	EPA 505	x		x
Ortho Phosphate	EPA 365.1	x	x	x
Ortho Phosphorous	SM 4500P E	x		x
Oxyhalides Disinfection Byproducts	EPA 317.0	x		x
Perchlorate	EPA 331.0	x		x
Perchlorate (low and high)	EPA 314.0	x		x
Perfluorinated Alkyl Acids	EPA 537	x		x
Perfluorinated Pollutant	In house Method (2434)	x		x
pH	EPA 150.1	x		
pH	SM 4500-H+B	x	x	x
Phenylurea Pesticides/ Herbicides	In House Method, based on EPA 532 (2448)	x		x
Pseudomonas	IDEXX Pseudalert (2461)	x		x
Radium-226	GA Institute of Tech	x		x
Radium-228	GA Institute of Tech	x		x
Radon-222	SM 7500RN	x		x
Residue, Filterable	SM 2540C	x	x	x
Residue, Non-filterable	SM 2540D		x	
Residue, Total	SM 2540B		x	x
Residue, Volatile	EPA 160.4		x	
Semi-VOC	EPA 525.2	x		x
Silica	SM 4500-Si D	x	x	
Silica	SM 4500-SiO2 C	x	x	
Sulfide	SM 4500-S ⁻ D		x	
Sulfite	SM 4500-SO ³ B	x	x	x
Surfactants	SM 5540C	x	x	x
Taste and Odor Analytes	SM 6040E	x		x
Total Coliform (P/A)	SM 9221 A, B	x		x
Total Coliform (Enumeration)	SM 9221 A, B, C	x		x
Total Coliform / E. coli	Colisure SM 9223	x		x
Total Coliform	SM 9221B		x	
Total Coliform with Chlorine Present	SM 9221B		x	
Total Coliform / E.coli (P/A and Enumeration)	SM 9223	x		x
TOC	SM 5310C	x	x	x
TOX	SM 5320B		x	
Total Phenols	EPA 420.1		x	
Total Phenols	EPA 420.4	x	x	x
Total Phosphorous	SM 4500 P E		x	
Triazine Pesticides & Degradates	In House (3617)	x		x
Turbidity	EPA 180.1	x	x	x
Turbidity	SM 2130B	x	x	
Uranium by ICP/MS	EPA 200.8	x		x
UV 254	SM 5910B	x		
VOC	EPA 524.2	x		x
VOC	In House Method (2411)	x		x
Yeast and Mold	SM 9610	x		x
Field Sampling	N/A			

Acknowledgement of Samples Received

Addr: **Alum Beverages**
906 N Lake St.
Burbank, CA 91502

Client ID: ALUMBEVERAGES

Folder #: 821072

Project: BW

Sample Group: Blue Can FDA product

Attn: Terry Horine
Phone: 480-776-4338

Project Manager: Sophia F Liang
Phone:

The following samples were received from you on **August 12, 2019** at **11:37**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using Eurofins Eaton Analytical, LLC.

Sample #	Sample ID	Sample Date
201908130168	Blue Can FDA suite 8/9/19 11:22 355mL	08/13/2019 1034
Static ID: client specific table-ref attachmen		
@2378-TCDD_Dioxin	@505	@515.4
@525	@531	@549
@900	@ANIONS28	@ANIONS48
@DBP_14	@HAA	@ICP
@ICPMS	@RA226 GA	@RA228 GA
@VOA	Apparent Color	Bromate by UV/VIS
Chloramines	Chlorine Dioxide	Cyanide
Endothall	Fluoride	Free Chlorine Residual
Glyphosate	Mercury	Odor at 60 C (TON)
PH, Bottled Water	Phenolic Compounds-low level	Total Chlorine Residual
Total Dissolved Solid (TDS)	Turbidity	@504LOW
@537	@QUANT2000 18HR	

Test Description

@2378-TCDD_Dioxin -- 2,3,7,8-TCDD_Dioxin

@505 -- Organochlorine Pesticides/PCBs

@515.4 -- Chlorophenoxy Herbicides

@525 -- Semivolatiles by GCMS

@531 -- Aldicarb

@549 -- Diquat and Paraquat

@900 -- Gross Alpha/Beta Radiation

@ANIONS28 -- Chloride, Sulfate by EPA 300.0

@ANIONS48 -- Nitrate, Nitrite by EPA 300.0

@DBP_14 -- Chlorite by 300.0

@HAA -- Haloacetic Acids

@ICP -- ICP Metals

@ICPMS -- ICPMS Metals

@RA226 GA -- Radium 226

@RA228 GA -- Radium 228

@VOA -- Volatile Organics by GCMS

@504LOW -- EPA Method 504.1

Acknowledgement of Samples Received

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Sample #	Sample ID	Sample Date
	@537 -- Perfluorinated Alkyl Acids EPA 537 rev 1.1	
	@QUANT2000 18HR -- Quantitray Coliforms 18 Hour	



Eaton Analytical

CHAIN OF CUSTODY RECORD

EUROFINS EATON ANALYTICAL USE ONLY:

750 Royal Oaks Drive, Suite 100
Monrovia, CA 91016-3629
Phone: 626 386 1100
Fax: 626 386 1101
800 566 LABS (800 566 5227)
Website: www.EatonAnalytical.com

LOGIN COMMENTS:

SAMPLES CHECKED AGAINST COC BY: JB

SAMPLES LOGGED IN BY: JS

SAMPLE TEMP RECEIVED AT:

☐ (Other) IR Gun ID = _____ (Observation = _____ °C) (check for yes)
☒ Monrovia IR Gun ID = 6161A (Observation = 24.2 °C) (Final = 24.0 °C)
Compliance Acceptance Criteria: (Chemistry: 4 ± 2 °C) (Microbiology: < 10 °C)

TYPE OF ICE: Real _____ Synthetic _____ No Ice ☒ CONDITION OF ICE: Frozen _____ Partially Frozen _____ Thawed _____ N/A ☒

METHOD OF SHIPMENT: Pick-Up / Walk-In / FedEx / DHL / Area Fast / Top Line / Other: _____

TO BE COMPLETED BY SAMPLER:

COMPANY/AGENCY NAME: BLUECANWATER PROJECT CODE: BW (check for yes)

EEA CLIENT CODE: BLUECANWATER PROJECT: PROJECT: _____ NON-COMPLIANCE SAMPLES _____ (check for yes)

TAT requested: rush by adv notice only STD _____ 2 wk _____ 3 day _____ 2 day _____ 1 day _____

CLIENT LAB ID _____ FIELD DATA _____

SAMPLE ID _____ FIELD DATA _____

SAMPLE DATE _____ FIELD DATA _____

SAMPLE TIME _____ FIELD DATA _____

CLIENT LAB ID _____ FIELD DATA _____

SAMPLE ID _____ FIELD DATA _____

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* MATRIX TYPES: RSW = Raw Surface Water CFW = Chlor(am)inated Finished Water SEAW = Sea Water BW = Bottled Water SO = Soil O = Other - Please Identify
RGW = Raw Ground Water FW = Other Finished Water WW = Waste Water SW = Storm Water SL = Sludge

SIGNED BY: Victoria WhiteBear PRINT NAME: Victoria WhiteBear

RELINQUISHED BY: Chad Brooks PRINT NAME: Chad Brooks

RECEIVED BY: _____ PRINT NAME: _____

RELINQUISHED BY: _____ PRINT NAME: _____

RECEIVED BY: _____ PRINT NAME: _____

DATE: 7/10/2018 TIME: 11:45 AM

DATE: 7/13/2018 TIME: 12:46 PM

DATE: 8.12.19 TIME: 11:40

DATE: _____ TIME: _____

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Client: Alum Beverages
906 N Lake St.
Burbank, CA 91502

Attention: Terry Horine

Report Date: 06/02/2020
Date Received: 08/12/2019
Sample No: 201908130168

Sample Id: Blue Can FDA suite 8/9/19 11:22 355mL
Date Sampled: 8/13/2019

Investigation: Analysis per Title 21, Federal Code of Regulations 165.110 - California Limits

ANALYTICAL RESULTS

Parameter	Method	Reporting Limit	Dilution	Result	SOQ
GROUP I					
PHYSICAL					
Apparent Color (ACU)	SM 2120B	3.0	1	ND ACU	15
Odor at 60 C (TON)	SM 2150B	1.0	1	ND TON	3
pH (Units)	4500HB/E 150	0.10	1	6.1	8.5
Total Dissolved Solid (TDS)	SM 2540C	10	1	ND	500
Turbidity (NTU)	EPA 180.1	0.10	1	0.11 NTU	5
GROUP II					
CHEMICAL SUBSTANCE 1					
Milligrams per Liter					
Aluminum	EPA 200.8	0.020	1	ND	0.2
Antimony	EPA 200.8	0.0010	1	ND	0.006
Arsenic	EPA 200.8	0.0010	1	ND	0.010
Barium	EPA 200.8	0.0020	1	ND	2
Beryllium	EPA 200.8	0.0010	1	ND	0.004
Cadmium	EPA 200.8	0.00050	1	ND	0.005
Chloride	EPA 300.0	0.50	1	0.50	250
Chromium	EPA 200.8	0.0010	1	ND	0.1
Copper	EPA 200.8	0.0020	1	ND	1.0
Cyanide	SM 4500CN-F	0.025	1	ND	0.1
Fluoride	SM 4500F-C	0.050	1	ND	1.4
Iron	EPA 200.7	0.020	1	ND	0.3
Lead	EPA 200.8	0.00050	1	ND	0.005
Manganese	EPA 200.8	0.0020	1	ND	0.05
Mercury	EPA 245.1	0.00020	1	ND	0.002
Nickel	EPA 200.8	0.0050	1	ND	0.1
Nitrate-N	EPA 300.0	0.10	1	0.10	10
Nitrite-N	EPA 300.0	0.050	1	ND	1
Phenol	EPA 420.4	0.0010	1	ND	0.001
Selenium	EPA 200.8	0.0050	1	ND	0.05

SOQ=Standard of Quality per FDA or California

ND=Not detected at the specified limit

All results reported in milligrams per liter unless otherwise noted

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Laboratory FDA_CA
Report: 821072

Report Date: 06/02/2020
Date Received: 08/12/2019
Sample No: 201908130168

Parameter	Method	Reporting Limit	Dilution	Result	SOQ
Silver	EPA 200.8	0.00050	1	ND	0.1
Sulfate	EPA 300.0	0.50	1	ND	250
Thallium	EPA 200.8	0.0010	1	ND	0.002
Total Nitrate + Nitrite	EPA 300.0	0.10	1	0.10	10
Zinc	EPA 200.8	0.020	1	ND	5.0
GROUP III					
CHEMICAL SUBSTANCE 2 (VOC)		Milligrams per Liter			
1,1,1,2-Tetrachloroethane	EPA 524.2	0.00050	1	ND	no std
1,1,1-Trichloroethane	EPA 524.2	0.00050	1	ND	0.20
1,1,2,2-Tetrachloroethane	EPA 524.2	0.00050	1	ND	no std
1,1,2-Trichloroethane	EPA 524.2	0.00050	1	ND	0.005
1,1-Dichloroethane	EPA 524.2	0.00050	1	ND	no std
1,1-Dichloroethene	EPA 524.2	0.00050	1	ND	0.007
1,1-Dichloropropene	EPA 524.2	0.00050	1	ND	no std
1,2,3-Trichlorobenzene	EPA 524.2	0.00050	1	ND	no std
1,2,3-Trichloropropane	EPA 524.2	0.00050	1	ND	no std
1,2,4-Trichlorobenzene	EPA 524.2	0.00050	1	ND	0.07
1,2,4-Trimethylbenzene	EPA 524.2	0.00050	1	ND	no std
1,2-Dichloroethane	EPA 524.2	0.00050	1	ND	0.005
1,2-Dichloropropane	EPA 524.2	0.00050	1	ND	0.005
1,3,5-Trimethylbenzene	EPA 524.2	0.00050	1	ND	no std
1,3-Dichloropropane	EPA 524.2	0.00050	1	ND	no std
2,2-Dichloropropane	EPA 524.2	0.00050	1	ND	no std
Benzene	EPA 524.2	0.00050	1	ND	0.005
Bromobenzene	EPA 524.2	0.00050	1	ND	no std
Bromochloromethane	EPA 524.2	0.00050	1	ND	no std
Bromodichloromethane	EPA 524.2	0.00050	1	0.00053	no std
Bromoform	EPA 524.2	0.00050	1	ND	no std
Bromomethane	EPA 524.2	0.00050	1	ND	no std
Carbon Tetrachloride	EPA 524.2	0.00050	1	ND	0.005
Chlorobenzene	EPA 524.2	0.00050	1	ND	0.1
Chlorodibromomethane	EPA 524.2	0.00050	1	0.00071	no std
Chloroethane	EPA 524.2	0.00050	1	ND	no std
Chloroform (Trichloromethane)	EPA 524.2	0.00050	1	ND	no std
Chloromethane	EPA 524.2	0.00050	1	ND	no std
cis-1,2-Dichloroethylene	EPA 524.2	0.00050	1	ND	0.07
cis-1,3-Dichloropropene	EPA 524.2	0.00050	1	ND	no std
Dibromomethane	EPA 524.2	0.00050	1	ND	no std

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Parameter	Method	Reporting Limit	Dilution	Result	SOQ
Dichlorodifluoromethane	EPA 524.2	0.00050	1	ND	no std
Dichloromethane (MeCl ₂)	EPA 524.2	0.00050	1	ND	0.005
Ethyl benzene	EPA 524.2	0.00050	1	ND	0.7
Fluorotrichloromethane-Freon11	EPA 524.2	0.00050	1	ND	no std
Hexachlorobutadiene	EPA 524.2	0.00050	1	ND	no std
Isopropylbenzene	EPA 524.2	0.00050	1	ND	no std
m,p-Xylenes	EPA 524.2	0.00050	1	ND	no std
m-Dichlorobenzene (1,3-DCB)	EPA 524.2	0.00050	1	ND	no std
Methyl ethyl ketone (MEK, Butanone)	EPA 524.2	0.0050	1	ND	no std
MTBE	EPA 524.2	0.00050	1	ND	no std
n-Butylbenzene	EPA 524.2	0.00050	1	ND	no std
n-Propylbenzene	EPA 524.2	0.00050	1	ND	no std
o-Chlorotoluene	EPA 524.2	0.00050	1	ND	no std
o-Dichlorobenzene (1,2-DCB)	EPA 524.2	0.00050	1	ND	0.6
o-Xylene	EPA 524.2	0.00050	1	ND	no std
p-Chlorotoluene	EPA 524.2	0.00050	1	ND	no std
p-Dichlorobenzene (1,4-DCB)	EPA 524.2	0.00050	1	ND	0.075
p-Isopropyltoluene	EPA 524.2	0.00050	1	ND	no std
sec-Butylbenzene	EPA 524.2	0.00050	1	ND	no std
Styrene	EPA 524.2	0.00050	1	ND	0.1
tert-Butylbenzene	EPA 524.2	0.00050	1	ND	no std
Tetrachloroethylene (PCE)	EPA 524.2	0.00050	1	ND	0.005
Toluene	EPA 524.2	0.00050	1	ND	1
Total 1,3-Dichloropropene	EPA 524.2	0.00050	1	ND	no std
Total THM	EPA 524.2	0.00050	1	0.0012	0.010
Total xylenes	EPA 524.2	0.00050	1	ND	10
trans-1,2-Dichloroethylene	EPA 524.2	0.00050	1	ND	0.1
trans-1,3-Dichloropropene	EPA 524.2	0.00050	1	ND	no std
Trichloroethylene (TCE)	EPA 524.2	0.00050	1	ND	0.005
Trichlorotrifluoroethane(F113)	EPA 524.2	0.00050	1	ND	no std
Vinyl chloride (VC)	EPA 524.2	0.00030	1	ND	0.002

GROUP IV

CHEMICAL SUBSTANCE 3 (NON VOC)

Milligrams per Liter

1,2,3-Trichloropropane (TCP)	EPA 504.1	0.000020	1	ND	no std
2,3,7,8-TCDD (ug/L)	EPA 1613B	0.0000000050	1	ND	0.00000003
2,4,5-TP (Silvex)	EPA 515.4	0.00020	1	ND	0.05
2,4-D	EPA 515.4	0.00010	1	ND	0.07
3-Hydroxycarbofuran	EPA 531.2	0.00050	1	ND	no std

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750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (866) 988-3757
1 800 566 LABS (1 800 566 5227)

Laboratory FDA_CA

Report: 821072

Report Date: 06/02/2020
Date Received: 08/12/2019
Sample No: 201908130168

Parameter	Method	Reporting Limit	Dilution	Result	SOQ
Alachlor (Alanex)	EPA 505	0.00010	1	ND	0.002
Aldicarb (Temik)	EPA 531.2	0.00050	1	ND	no std
Aldicarb sulfone	EPA 531.2	0.00050	1	ND	no std
Aldicarb sulfoxide	EPA 531.2	0.00050	1	ND	no std
Aldrin	EPA 505	0.000010	1	ND	no std
Atrazine	EPA 525.2	0.000050	1	ND	0.003
Baygon	EPA 531.2	0.00050	1	ND	no std
Bentazon	EPA 515.4	0.00050	1	ND	no std
Benzo(a)pyrene	EPA 525.2	0.000020	1	ND	0.0002
Carbaryl	EPA 531.2	0.00050	1	ND	no std
Carbofuran	EPA 531.2	0.00050	1	ND	0.04
Chlordane	EPA 505	0.00010	1	ND	0.002
Dalapon	EPA 515.4	0.0010	1	ND	0.2
Di-(2-Ethylhexyl)adipate	EPA 525.2	0.00060	1	ND	0.4
Di(2-Ethylhexyl)phthalate	EPA 525.2	0.00060	1	ND	0.006
Dibromochloropropane (DBCP)	EPA 504.1	0.000010	1	ND	0.0002
Dicamba	EPA 515.4	0.00010	1	ND	no std
Dieldrin	EPA 505	0.000010	1	ND	no std
Dinoseb	EPA 515.4	0.00020	1	ND	0.007
Diquat	EPA 549.2	0.00040	1	ND	0.02
Endothall	EPA 548.1	0.0050	1	ND	0.1
Endrin	EPA 505	0.000010	1	ND	0.002
Ethylene Dibromide (EDB)	EPA 504.1	0.000010	1	ND	0.00005
Glyphosate	EPA 547	0.0060	1	ND	0.7
Heptachlor	EPA 505	0.000010	1	ND	0.0004
Heptachlor Epoxide	EPA 505	0.000010	1	ND	0.0002
Hexachlorobenzene	EPA 525.2	0.000050	1	ND	0.001
Hexachlorocyclopentadiene	EPA 525.2	0.000050	1	ND	0.05
Lindane (gamma-BHC)	EPA 505	0.000010	1	ND	0.0002
Methiocarb	EPA 531.2	0.00050	1	ND	no std
Methomyl	EPA 531.2	0.00050	1	ND	no std
Methoxychlor	EPA 505	0.000050	1	ND	0.04
Oxamyl (Vydate)	EPA 531.2	0.00050	1	ND	0.2
Paraquat	EPA 549.2	0.0020	1	ND	no std
Pentachlorophenol	EPA 515.4	0.000040	1	ND	0.001
Picloram	EPA 515.4	0.00010	1	ND	0.5
Simazine	EPA 525.2	0.000050	1	ND	0.004
Thiobencarb	EPA 525.2	0.00020	1	ND	no std

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Date Received: 08/12/2019
Sample No: 201908130168

Parameter	Method	Reporting Limit	Dilution	Result	SOQ
Total PCBs	EPA 505	0.00010	1	ND	0.0005
Toxaphene	EPA 505	0.00050	1	ND	0.003
GROUP V					
RADIOACTIVITY					
Picocuries per Liter					
Gross Alpha	EPA 900.0	3.0	1	ND	15
Gross Beta	EPA 900.0	3.0	1	ND	50
Radium 226	Ra-226 GA	1.0	1	ND	5
Radium 228	Ra-228 GA	1.0	1	ND	5
Uranium (mg/L)	EPA 200.8	0.0010	1	ND	0.03
GROUP VIa					
BACTERIOLOGICAL					
Colonies/100 mL					
E Coli Bacteria	SM 9223	1.0	1	<1	1
Total Coliform Bacteria	SM 9223	1.0	1	<1	2.2
GROUP VII					
Disinfection Byproducts					
Milligrams per Liter					
Bromate	EPA 317	0.0010	1	ND	0.01
Chlorite	EPA 300.0	0.010	1	ND	1
D/DBP Haloacetic Acids (HAA5)	SM 6251B	0.0020	1	ND	0.06
GROUP VIII					
Residual Disinfectants					
Milligrams per Liter					
Chloramines	SM 4500CL-G/HACH	0.10	1	ND	4
Chlorine Dioxide	SM 4500CLO2-D/HACH	0.24	1	ND	0.8
Total Chlorine Residual	SM 4500CL-G/HACH	0.10	1	ND	4

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Laboratory Comments

Report: 821072
Project: BW
Group: Blue Can FDA product

Alum Beverages
Terry Horine
906 N Lake St.
Burbank, CA 91502

Folder Comments

ORIGINAL REPORT ISSUED DATE ON 09/18/2019. REVISED REPORT ISSUED ON 06/02/2020 TO INCLUDE BLUE CAN IDENTIFIER ON THE REPORT - SFL.

Flags Legend:

M2 - Matrix spike recovery was low; the associated blank spike recovery was acceptable.
NE - Results reported for Phenolic Compounds Low Level are obtained using an in-line distillation process, based on EPA Methods 420.2 and 420.4

Result Comments**Odor at 60 C (TON)**

201908130168: BW opened 8/14/19 @ 1739 - none

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Laboratory Hits

Report: 821072
Project: BW
Group: Blue Can FDA product

Alum Beverages
Terry Horine
906 N Lake St.
Burbank, CA 91502

Samples Received on:
08/12/2019 11:37

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
201908130168 <u>Blue Can FDA suite 8/9/19 11:22 355mL</u>						
08/26/2019 1:17	Bromodichloromethane		0.53		ug/L	0.50
08/13/2019 17:00	Chloride		0.50	250	mg/L	0.50
08/26/2019 1:17	Chlorodibromomethane		0.71		ug/L	0.50
08/13/2019 17:00	Nitrate as Nitrogen by IC		0.10	10	mg/L	0.10
08/13/2019 17:00	Nitrate as NO3 (calc)		0.46	45	mg/L	0.44
08/13/2019 20:29	PH Bottled Water		6.1		Units	0.10
08/13/2019 17:00	Total Nitrate, Nitrite-N, CALC		0.10		mg/L	0.10
08/26/2019 1:17	Total THM		1.2	80	ug/L	0.50
08/15/2019 14:00	Turbidity		0.11	5	NTU	0.10

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Alum Beverages
Terry Horine
906 N Lake St.
Burbank, CA 91502

Samples Received on:
08/12/2019 11:37

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
Blue Can FDA suite 8/9/19 11:22 355mL (201908130168)						Sampled on 08/13/2019 1034			
Static ID: client specific table-ref attachmen									
EPA 200.8 - ICPMS Metals									
08/14/19	08/26/19 16:34	1190212	1193143	(EPA 200.8)	Aluminum Total ICAP/MS	ND	ug/L	20	1
08/14/19	08/26/19 16:34	1190212	1193143	(EPA 200.8)	Antimony Total ICAP/MS	ND	ug/L	1.0	1
08/14/19	08/26/19 16:34	1190212	1193143	(EPA 200.8)	Arsenic Total ICAP/MS	ND	ug/L	1.0	1
08/14/19	08/26/19 16:34	1190212	1193143	(EPA 200.8)	Barium Total ICAP/MS	ND	ug/L	2.0	1
08/14/19	08/26/19 16:34	1190212	1193143	(EPA 200.8)	Beryllium Total ICAP/MS	ND	ug/L	1.0	1
08/14/19	08/26/19 16:34	1190212	1193143	(EPA 200.8)	Cadmium Total ICAP/MS	ND	ug/L	0.50	1
08/14/19	08/26/19 16:34	1190212	1193143	(EPA 200.8)	Chromium Total ICAP/MS	ND	ug/L	1.0	1
08/14/19	08/26/19 16:34	1190212	1193143	(EPA 200.8)	Copper Total ICAP/MS	ND	ug/L	2.0	1
08/14/19	08/26/19 16:34	1190212	1193143	(EPA 200.8)	Lead Total ICAP/MS	ND	ug/L	0.50	1
08/14/19	08/26/19 16:34	1190212	1193143	(EPA 200.8)	Manganese Total ICAP/MS	ND	ug/L	2.0	1
08/14/19	08/26/19 16:34	1190212	1193143	(EPA 200.8)	Nickel Total ICAP/MS	ND	ug/L	5.0	1
08/14/19	08/26/19 16:34	1190212	1193143	(EPA 200.8)	Selenium Total ICAP/MS	ND	ug/L	5.0	1
08/14/19	09/17/19 12:54	1190212	1197486	(EPA 200.8)	Silver Total ICAP/MS	ND	ug/L	0.50	1
08/14/19	08/26/19 16:34	1190212	1193143	(EPA 200.8)	Thallium Total ICAP/MS	ND	ug/L	1.0	1
08/14/19	08/26/19 16:34	1190212	1193143	(EPA 200.8)	Uranium ICAP/MS	ND	ug/L	1.0	1
08/14/19	08/26/19 16:34	1190212	1193143	(EPA 200.8)	Zinc Total ICAP/MS	ND	ug/L	20	1
EPA 200.7 - ICP Metals									
08/14/19	08/14/19 11:52	1190212	1190418	(EPA 200.7)	Iron Total ICAP	ND	mg/L	0.020	1
EPA 245.1 - Mercury Total									
08/28/19	08/28/19 18:08	1193682	1194073	(EPA 245.1)	Mercury	ND	ug/L	0.20	1
SM 9223B - Quantitray Coliforms 18 Hour									
08/13/19	08/14/19 11:38	1190538	1190623	(SM 9223B)	18 Hour E. Coli Confirmed (Large Wells)	ND	PW	1.0	1
08/13/19	08/14/19 11:38	1190538	1190623	(SM 9223B)	18 Hour E. Coli Confirmed (Small Wells)	ND	PW	1.0	1
08/13/19	08/14/19 11:38	1190538	1190623	(SM 9223B)	18 Hour Total Coliform Confrm (Large Wells)	ND	PW	1.0	1
08/13/19	08/14/19 11:38	1190538	1190623	(SM 9223B)	18 Hour Total Coliform Confrm (Small Wells)	ND	PW	1.0	1
08/13/19	08/14/19 11:38	1190538	1190623	(SM 9223B)	E. Coli Bacteria (P/A)	A	PA		1
08/13/19	08/14/19 11:38	1190538	1190623	(SM 9223B)	Total Coliform Bacteria (P/A)	A	PA		1
08/13/19	08/14/19 11:38	1190538	1190623	(SM 9223B)	E. Coli Bacteria	<1	MPN/100 mL	1.0	1
08/13/19	08/14/19 11:38	1190538	1190623	(SM 9223B)	Total Coliform Bacteria	<1	MPN/100 mL	1.0	1
EPA 505 - Organochlorine Pesticides/PCBs									
08/20/19	08/20/19 21:41	1191821	1192603	(EPA 505)	Alachlor (Alanex)	ND	ug/L	0.10	1
08/20/19	08/20/19 21:41	1191821	1192603	(EPA 505)	Aldrin	ND	ug/L	0.010	1
08/20/19	08/20/19 21:41	1191821	1192603	(EPA 505)	Chlordane	ND	ug/L	0.10	1

Rounding on totals after summation.

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Laboratory Data

Report: 821072
Project: BW
Group: Blue Can FDA product

Alum Beverages
Terry Horine
906 N Lake St.
Burbank, CA 91502

Samples Received on:
08/12/2019 11:37

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
08/20/19	08/20/19 21:41	1191821	1192603	(EPA 505)	Dieldrin	ND	ug/L	0.0100	1
08/20/19	08/20/19 21:41	1191821	1192603	(EPA 505)	Endrin	ND	ug/L	0.010	1
08/20/19	08/20/19 21:41	1191821	1192603	(EPA 505)	Heptachlor	ND	ug/L	0.010	1
08/20/19	08/20/19 21:41	1191821	1192603	(EPA 505)	Heptachlor Epoxide	ND	ug/L	0.010	1
08/20/19	08/20/19 21:41	1191821	1192603	(EPA 505)	Lindane (gamma-BHC)	ND	ug/L	0.010	1
08/20/19	08/20/19 21:41	1191821	1192603	(EPA 505)	Methoxychlor	ND	ug/L	0.050	1
08/20/19	08/20/19 21:41	1191821	1192603	(EPA 505)	PCB 1016 Aroclor	ND	ug/L	0.080	1
08/20/19	08/20/19 21:41	1191821	1192603	(EPA 505)	PCB 1221 Aroclor	ND	ug/L	0.10	1
08/20/19	08/20/19 21:41	1191821	1192603	(EPA 505)	PCB 1232 Aroclor	ND	ug/L	0.10	1
08/20/19	08/20/19 21:41	1191821	1192603	(EPA 505)	PCB 1242 Aroclor	ND	ug/L	0.10	1
08/20/19	08/20/19 21:41	1191821	1192603	(EPA 505)	PCB 1248 Aroclor	ND	ug/L	0.10	1
08/20/19	08/20/19 21:41	1191821	1192603	(EPA 505)	PCB 1254 Aroclor	ND	ug/L	0.10	1
08/20/19	08/20/19 21:41	1191821	1192603	(EPA 505)	PCB 1260 Aroclor	ND	ug/L	0.10	1
08/20/19	08/20/19 21:41	1191821	1192603	(EPA 505)	Total PCBs	ND	ug/L	0.10	1
08/20/19	08/20/19 21:41	1191821	1192603	(EPA 505)	Toxaphene	ND	ug/L	0.50	1
EPA 515.4 - Chlorophenoxy Herbicides									
08/19/19	08/20/19 20:34	1191559	1192743	(EPA 515.4)	2,4,5-T	ND	ug/L	0.20	1
08/19/19	08/20/19 20:34	1191559	1192743	(EPA 515.4)	2,4,5-TP (Silvex)	ND	ug/L	0.20	1
08/19/19	08/20/19 20:34	1191559	1192743	(EPA 515.4)	2,4-D	ND	ug/L	0.10	1
08/19/19	08/20/19 20:34	1191559	1192743	(EPA 515.4)	2,4-DB	ND	ug/L	2.0	1
08/19/19	08/20/19 20:34	1191559	1192743	(EPA 515.4)	3,5-Dichlorobenzoic acid	ND	ug/L	0.50	1
08/19/19	08/20/19 20:34	1191559	1192743	(EPA 515.4)	Acifluorfen	ND	ug/L	0.20	1
08/19/19	08/20/19 20:34	1191559	1192743	(EPA 515.4)	Bentazon	ND	ug/L	0.50	1
08/19/19	08/20/19 20:34	1191559	1192743	(EPA 515.4)	Dalapon	ND	ug/L	1.0	1
08/19/19	08/20/19 20:34	1191559	1192743	(EPA 515.4)	Dicamba	ND	ug/L	0.10	1
08/19/19	08/20/19 20:34	1191559	1192743	(EPA 515.4)	Dichlorprop	ND	ug/L	0.50	1
08/19/19	08/20/19 20:34	1191559	1192743	(EPA 515.4)	Dinoseb	ND	ug/L	0.20	1
08/19/19	08/20/19 20:34	1191559	1192743	(EPA 515.4)	Pentachlorophenol	ND (M2)	ug/L	0.040	1
08/19/19	08/20/19 20:34	1191559	1192743	(EPA 515.4)	Picloram	ND	ug/L	0.10	1
08/19/19	08/20/19 20:34	1191559	1192743	(EPA 515.4)	Tot DCPA Mono&Diacid Degradate	ND	ug/L	0.10	1
08/19/19	08/20/19 20:34	1191559	1192743	(EPA 515.4)	2,4-Dichlorophenyl acetic acid	99	%		1
08/19/19	08/20/19 20:34	1191559	1192743	(EPA 515.4)	4,4-Dibromooctafluorobiphenyl	101	%		1
SM 6251B - Haloacetic Acids									
08/23/19	08/24/19 21:16	1192653	1192923	(SM 6251B)	Bromochloroacetic acid	ND	ug/L	1.0	1
08/23/19	08/24/19 21:16	1192653	1192923	(SM 6251B)	Dibromoacetic acid	ND	ug/L	1.0	1
08/23/19	08/24/19 21:16	1192653	1192923	(SM 6251B)	Dichloroacetic acid	ND	ug/L	1.0	1
08/23/19	08/24/19 21:16	1192653	1192923	(SM 6251B)	Monobromoacetic acid	ND	ug/L	1.0	1

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08/12/2019 11:37

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
08/23/19	08/24/19 21:16	1192653	1192923	(SM 6251B)	Monochloroacetic acid	ND	ug/L	2.0	1
08/23/19	08/24/19 21:16	1192653	1192923	(SM 6251B)	Total Haloacetic Acids (HAA5)	ND	ug/L	2.0	1
08/23/19	08/24/19 21:16	1192653	1192923	(SM 6251B)	Trichloroacetic acid	ND	ug/L	1.0	1
08/23/19	08/24/19 21:16	1192653	1192923	(SM 6251B)	1,2,3-Trichloropropane	99	%		1
08/23/19	08/24/19 21:16	1192653	1192923	(SM 6251B)	2,3-Dibromopropionic acid	96	%		1
EPA 504.1 - EPA Method 504.1									
08/15/19	08/16/19 05:31	1189771	1190127	(EPA 504.1)	1,2,3-Trichloropropane	ND	ug/L	0.020	1
08/15/19	08/16/19 05:31	1189771	1190127	(EPA 504.1)	1,2-Dibromo-3-chloropropane	ND	ug/L	0.010	1
08/15/19	08/16/19 05:31	1189771	1190127	(EPA 504.1)	1,2-Dibromoethane	ND	ug/L	0.010	1
08/15/19	08/16/19 05:31	1189771	1190127	(EPA 504.1)	1,2-Dibromopropane	100	%		1
EPA 525.2 - Semivolatiles by GCMS									
08/20/19	08/23/19 16:46	1191770	1193044	(EPA 525.2)	Atrazine	ND	ug/L	0.050	1
08/20/19	08/23/19 16:46	1191770	1193044	(EPA 525.2)	Benzo(a)pyrene	ND	ug/L	0.020	1
08/20/19	08/23/19 16:46	1191770	1193044	(EPA 525.2)	Di-(2-Ethylhexyl)adipate	ND	ug/L	0.60	1
08/20/19	08/23/19 16:46	1191770	1193044	(EPA 525.2)	Di(2-Ethylhexyl)phthalate	ND	ug/L	0.60	1
08/20/19	08/23/19 16:46	1191770	1193044	(EPA 525.2)	Hexachlorobenzene	ND	ug/L	0.050	1
08/20/19	08/23/19 16:46	1191770	1193044	(EPA 525.2)	Hexachlorocyclopentadiene	ND	ug/L	0.050	1
08/20/19	08/23/19 16:46	1191770	1193044	(EPA 525.2)	Molinate	ND	ug/L	0.10	1
08/20/19	08/23/19 16:46	1191770	1193044	(EPA 525.2)	Simazine	ND	ug/L	0.050	1
08/20/19	08/23/19 16:46	1191770	1193044	(EPA 525.2)	Thiobencarb (ELAP)	ND	ug/L	0.20	1
08/20/19	08/23/19 16:46	1191770	1193044	(EPA 525.2)	1,3-Dimethyl-2-nitrobenzene	105	%		1
08/20/19	08/23/19 16:46	1191770	1193044	(EPA 525.2)	Acenaphthene-d10	112	%		1
08/20/19	08/23/19 16:46	1191770	1193044	(EPA 525.2)	Chrysene-d12	117	%		1
08/20/19	08/23/19 16:46	1191770	1193044	(EPA 525.2)	Perylene-d12	97	%		1
08/20/19	08/23/19 16:46	1191770	1193044	(EPA 525.2)	Phenanthrene-d10	111	%		1
08/20/19	08/23/19 16:46	1191770	1193044	(EPA 525.2)	Triphenylphosphate	117	%		1
EPA 548.1 - Endothall									
08/13/19	08/15/19 11:07	1190155	1190836	(EPA 548.1)	Endothall	ND	ug/L	5.0	1
EPA 1613B - 2,3,7,8-TCDD_Dioxin									
08/22/19	08/26/19 19:51	1192388	1193320	(EPA 1613B)	2,3,7,8-TCDD	ND	pg/L	5.00	1
08/22/19	08/26/19 19:51	1192388	1193320	(EPA 1613B)	C12-2,3,7,8-TCDD	77	%		1
EPA 547 - Glyphosate									
08/18/19	0:14	1191445		(EPA 547)	Glyphosate	ND	ug/L	6.0	1
EPA 531.2 - Aldicarbs									
08/15/19	00:22		1190895	(EPA 531.2)	3-Hydroxycarbofuran	ND	ug/L	0.50	1
08/15/19	00:22		1190895	(EPA 531.2)	Aldicarb (Temik)	ND	ug/L	0.50	1
08/15/19	00:22		1190895	(EPA 531.2)	Aldicarb sulfone	ND	ug/L	0.50	1
08/15/19	00:22		1190895	(EPA 531.2)	Aldicarb sulfoxide	ND	ug/L	0.50	1

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Group: Blue Can FDA product

Alum Beverages
Terry Horine
906 N Lake St.
Burbank, CA 91502

Samples Received on:
08/12/2019 11:37

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
	08/15/19 00:22		1190895	(EPA 531.2)	Baygon	ND	ug/L	0.50	1
	08/15/19 00:22		1190895	(EPA 531.2)	Carbaryl	ND	ug/L	0.50	1
	08/15/19 00:22		1190895	(EPA 531.2)	Carbofuran (Furadan)	ND	ug/L	0.50	1
	08/15/19 00:22		1190895	(EPA 531.2)	Methiocarb	ND	ug/L	0.50	1
	08/15/19 00:22		1190895	(EPA 531.2)	Methomyl	ND	ug/L	0.50	1
	08/15/19 00:22		1190895	(EPA 531.2)	Oxamyl (Vydate)	ND	ug/L	0.50	1
	08/15/19 00:22		1190895	(EPA 531.2)	4-Bromo-3,5-dimethylphenyl-N-methylc arbamate	102	%		1
EPA 549.2 - Diquat and Paraquat									
08/13/19	08/14/19 13:32	1190351	1190740	(EPA 549.2)	Diquat	ND	ug/L	0.40	1
08/13/19	08/14/19 13:32	1190351	1190740	(EPA 549.2)	Paraquat	ND	ug/L	2.0	1
EPA 317 - Bromate by UV/VIS 317									
	08/28/19 21:26		1193775	(EPA 317)	Bromate by UV/VIS	ND	ug/L	1.0	1
EPA 300.0 - Nitrate, Nitrite by EPA 300.0									
	08/13/19 17:00		1190358	(EPA 300.0)	Nitrate as Nitrogen by IC	0.10	mg/L	0.10	1
	08/13/19 17:00		1190358	(EPA 300.0)	Nitrate as NO3 (calc)	0.46	mg/L	0.44	1
	08/13/19 17:00		1190358	(EPA 300.0)	Nitrite Nitrogen by IC	ND	mg/L	0.050	1
	08/13/19 17:00		1190358	(EPA 300.0)	Total Nitrate, Nitrite-N, CALC	0.10	mg/L	0.10	1
EPA 300.0 - Chlorite by 300.0									
	08/21/19 01:57		1191960	(EPA 300.0)	Chlorite by IC	ND	mg/L	0.010	1
EPA 300.0 - Chloride, Sulfate by EPA 300.0									
	08/13/19 17:00		1190359	(EPA 300.0)	Chloride	0.50	mg/L	0.50	1
	08/13/19 17:00		1190359	(EPA 300.0)	Sulfate	ND	mg/L	0.50	1
EPA 537 - Perfluorinated Alkyl Acids EPA 537 rev 1.1									
	08/22/19 3:23		1192799	(EPA 537)	N-ethyl Perfluorooctanesulfonamidoacetic acid	ND	ug/L	0.0020	1
	08/22/19 3:23		1192799	(EPA 537)	N-methyl Perfluorooctanesulfonamidoacetic acid	ND	ug/L	0.0020	1
	08/22/19 3:23		1192799	(EPA 537)	Perfluorobutanesulfonic acid	ND	ug/L	0.0020	1
	08/22/19 3:23		1192799	(EPA 537)	Perfluorodecanoic acid	ND	ug/L	0.0020	1
	08/22/19 3:23		1192799	(EPA 537)	Perfluorododecanoic acid	ND	ug/L	0.0020	1
	08/22/19 3:23		1192799	(EPA 537)	Perfluoroheptanoic acid	ND	ug/L	0.0020	1
	08/22/19 3:23		1192799	(EPA 537)	Perfluorohexanesulfonic acid	ND	ug/L	0.0020	1
	08/22/19 3:23		1192799	(EPA 537)	Perfluorohexanoic acid	ND	ug/L	0.0020	1
	08/22/19 3:23		1192799	(EPA 537)	Perfluorononanoic acid	ND	ug/L	0.0020	1
	08/22/19 3:23		1192799	(EPA 537)	Perfluorooctanesulfonic acid	ND	ug/L	0.0020	1
	08/22/19 3:23		1192799	(EPA 537)	Perfluorooctanoic acid	ND	ug/L	0.0020	1
	08/22/19 3:23		1192799	(EPA 537)	Perfluorotetradecanoic acid	ND	ug/L	0.0020	1
	08/22/19 3:23		1192799	(EPA 537)	Perfluorotridecanoic acid	ND	ug/L	0.0020	1

Rounding on totals after summation.

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Fax: (866) 988-3757
1 800 566 LABS (1 800 566 5227)

Laboratory Data

Report: 821072
Project: BW
Group: Blue Can FDA product

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	08/22/19 3:23		1192799	(EPA 537)	Perfluoroundecanoic acid	ND	ug/L	0.0020	1
	08/22/19 3:23		1192799	(EPA 537)	13C-PFDA	101	%		1
	08/22/19 3:23		1192799	(EPA 537)	13C-PFHxA	90	%		1
	08/22/19 3:23		1192799	(EPA 537)	13C-PFOA	113	%		1
	08/22/19 3:23		1192799	(EPA 537)	13C-PFOS	98	%		1
	08/22/19 3:23		1192799	(EPA 537)	d3-NMeFOSAA	100	%		1
	08/22/19 3:23		1192799	(EPA 537)	d5-NEtFOSAA	97	%		1
EPA 900.0 - Gross Alpha/Beta Radiation									
08/15/19	08/21/19 13:30	1190829	1192562	(EPA 900.0)	Alpha, Gross	ND	pCi/L	3.0	1
08/15/19	08/21/19 13:30	1190829	1192562	(EPA 900.0)	Alpha, Min Detectable Activity	2	pCi/L		1
08/15/19	08/21/19 13:30	1190829	1192562	(EPA 900.0)	Alpha, Two Sigma Error	0.59	pCi/L		1
08/15/19	08/21/19 13:30	1190829	1192562	(EPA 900.0)	Beta, Gross	ND	pCi/L	3.0	1
08/15/19	08/21/19 13:30	1190829	1192562	(EPA 900.0)	Beta, Min Detectable Activity	2	pCi/L		1
08/15/19	08/21/19 13:30	1190829	1192562	(EPA 900.0)	Beta, Two Sigma Error	0.72	pCi/L		1
Ra-226 GA - Radium 226									
08/16/19	08/30/19 10:55	1190843	1195151	(Ra-226 GA)	Radium 226	ND	pCi/L	1.0	1
08/16/19	08/30/19 10:55	1190843	1195151	(Ra-226 GA)	Radium 226 Min Detect Activity	0.4	pCi/L		1
08/16/19	08/30/19 10:55	1190843	1195151	(Ra-226 GA)	Radium 226 Two Sigma Error	ND	pCi/L		1
RA-228 GA - Radium 228									
08/16/19	08/30/19 10:55	1190848	1195154	(RA-228 GA)	Radium 228	ND	pCi/L	1.0	1
08/16/19	08/30/19 10:55	1190848	1195154	(RA-228 GA)	Radium 228 Min Detect Activity	0.8	pCi/L		1
08/16/19	08/30/19 10:55	1190848	1195154	(RA-228 GA)	Radium 228 Two Sigma Error	ND	pCi/L		1
EPA 420.4 - Phenolic Compounds-low level									
	08/19/19 14:41		1191694	(EPA 420.4)	Phenolic Compounds-low level	ND (NE)	ug/L	1.0	1
EPA 524.2 - Volatile Organics by GCMS									
08/25/19	08/26/19 1:17	1193152	1193155	(EPA 524.2)	1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1
08/25/19	08/26/19 1:17	1193152	1193155	(EPA 524.2)	1,1,1-Trichloroethane	ND	ug/L	0.50	1
08/25/19	08/26/19 1:17	1193152	1193155	(EPA 524.2)	1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1
08/25/19	08/26/19 1:17	1193152	1193155	(EPA 524.2)	1,1,2-Trichloroethane	ND	ug/L	0.50	1
08/25/19	08/26/19 1:17	1193152	1193155	(EPA 524.2)	1,1-Dichloroethane	ND	ug/L	0.50	1
08/25/19	08/26/19 1:17	1193152	1193155	(EPA 524.2)	1,1-Dichloroethylene	ND	ug/L	0.50	1
08/25/19	08/26/19 1:17	1193152	1193155	(EPA 524.2)	1,1-Dichloropropene	ND	ug/L	0.50	1
08/25/19	08/26/19 1:17	1193152	1193155	(EPA 524.2)	1,2,3-Trichlorobenzene	ND	ug/L	0.50	1
08/25/19	08/26/19 1:17	1193152	1193155	(EPA 524.2)	1,2,3-Trichloropropane	ND	ug/L	0.50	1
08/25/19	08/26/19 1:17	1193152	1193155	(EPA 524.2)	1,2,4-Trichlorobenzene	ND	ug/L	0.50	1
08/25/19	08/26/19 1:17	1193152	1193155	(EPA 524.2)	1,2,4-Trimethylbenzene	ND	ug/L	0.50	1
08/25/19	08/26/19 1:17	1193152	1193155	(EPA 524.2)	1,2-Dichloroethane	ND	ug/L	0.50	1
08/25/19	08/26/19 1:17	1193152	1193155	(EPA 524.2)	1,2-Dichloropropane	ND	ug/L	0.50	1

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08/25/19	08/26/19 1:17	1193152	1193155	(EPA 524.2)	1,3,5-Trimethylbenzene	ND	ug/L	0.50	1
08/25/19	08/26/19 1:17	1193152	1193155	(EPA 524.2)	1,3-Dichloropropane	ND	ug/L	0.50	1
08/25/19	08/26/19 1:17	1193152	1193155	(EPA 524.2)	2,2-Dichloropropane	ND	ug/L	0.50	1
08/25/19	08/26/19 1:17	1193152	1193155	(EPA 524.2)	2-Butanone (MEK)	ND	ug/L	5.0	1
08/25/19	08/26/19 1:17	1193152	1193155	(EPA 524.2)	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5.0	1
08/25/19	08/26/19 1:17	1193152	1193155	(EPA 524.2)	Benzene	ND	ug/L	0.50	1
08/25/19	08/26/19 1:17	1193152	1193155	(EPA 524.2)	Bromobenzene	ND	ug/L	0.50	1
08/25/19	08/26/19 1:17	1193152	1193155	(EPA 524.2)	Bromochloromethane	ND	ug/L	0.50	1
08/25/19	08/26/19 1:17	1193152	1193155	(EPA 524.2)	Bromodichloromethane	0.53	ug/L	0.50	1
08/25/19	08/26/19 1:17	1193152	1193155	(EPA 524.2)	Bromoethane	ND	ug/L	0.50	1
08/28/19	08/29/19 00:29	1194248	1194259	(EPA 524.2)	Bromoform	ND	ug/L	0.50	1
08/25/19	08/26/19 1:17	1193152	1193155	(EPA 524.2)	Bromomethane (Methyl Bromide)	ND	ug/L	0.50	1
08/25/19	08/26/19 1:17	1193152	1193155	(EPA 524.2)	Carbon Tetrachloride	ND	ug/L	0.50	1
08/25/19	08/26/19 1:17	1193152	1193155	(EPA 524.2)	Chlorobenzene	ND	ug/L	0.50	1
08/25/19	08/26/19 1:17	1193152	1193155	(EPA 524.2)	Chlorodibromomethane	0.71	ug/L	0.50	1
08/25/19	08/26/19 1:17	1193152	1193155	(EPA 524.2)	Chloroethane	ND	ug/L	0.50	1
08/25/19	08/26/19 1:17	1193152	1193155	(EPA 524.2)	Chloroform (Trichloromethane)	ND	ug/L	0.50	1
08/25/19	08/26/19 1:17	1193152	1193155	(EPA 524.2)	Chloromethane(Methyl Chloride)	ND	ug/L	0.50	1
08/25/19	08/26/19 1:17	1193152	1193155	(EPA 524.2)	cis-1,2-Dichloroethylene	ND	ug/L	0.50	1
08/25/19	08/26/19 1:17	1193152	1193155	(EPA 524.2)	cis-1,3-Dichloropropene	ND	ug/L	0.50	1
08/25/19	08/26/19 1:17	1193152	1193155	(EPA 524.2)	Dibromomethane	ND	ug/L	0.50	1
08/25/19	08/26/19 1:17	1193152	1193155	(EPA 524.2)	Dichlorodifluoromethane	ND	ug/L	0.50	1
08/25/19	08/26/19 1:17	1193152	1193155	(EPA 524.2)	Dichloromethane	ND	ug/L	0.50	1
08/25/19	08/26/19 1:17	1193152	1193155	(EPA 524.2)	Di-isopropyl ether	ND	ug/L	3.0	1
08/25/19	08/26/19 1:17	1193152	1193155	(EPA 524.2)	Ethyl benzene	ND	ug/L	0.50	1
08/25/19	08/26/19 1:17	1193152	1193155	(EPA 524.2)	Hexachlorobutadiene	ND	ug/L	0.50	1
08/25/19	08/26/19 1:17	1193152	1193155	(EPA 524.2)	Isopropylbenzene	ND	ug/L	0.50	1
08/25/19	08/26/19 1:17	1193152	1193155	(EPA 524.2)	m,p-Xylenes	ND	ug/L	0.50	1
08/25/19	08/26/19 1:17	1193152	1193155	(EPA 524.2)	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.50	1
08/25/19	08/26/19 1:17	1193152	1193155	(EPA 524.2)	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.50	1
08/25/19	08/26/19 1:17	1193152	1193155	(EPA 524.2)	Naphthalene	ND	ug/L	0.50	1
08/25/19	08/26/19 1:17	1193152	1193155	(EPA 524.2)	n-Butylbenzene	ND	ug/L	0.50	1
08/25/19	08/26/19 1:17	1193152	1193155	(EPA 524.2)	n-Propylbenzene	ND	ug/L	0.50	1
08/25/19	08/26/19 1:17	1193152	1193155	(EPA 524.2)	o-Chlorotoluene	ND	ug/L	0.50	1
08/25/19	08/26/19 1:17	1193152	1193155	(EPA 524.2)	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.50	1
08/25/19	08/26/19 1:17	1193152	1193155	(EPA 524.2)	o-Xylene	ND	ug/L	0.50	1
08/25/19	08/26/19 1:17	1193152	1193155	(EPA 524.2)	p-Chlorotoluene	ND	ug/L	0.50	1

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08/25/19	08/26/19 1:17	1193152	1193155	(EPA 524.2)	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.50	1
08/25/19	08/26/19 1:17	1193152	1193155	(EPA 524.2)	p-Isopropyltoluene	ND	ug/L	0.50	1
08/25/19	08/26/19 1:17	1193152	1193155	(EPA 524.2)	sec-Butylbenzene	ND	ug/L	0.50	1
08/25/19	08/26/19 1:17	1193152	1193155	(EPA 524.2)	Styrene	ND	ug/L	0.50	1
08/25/19	08/26/19 1:17	1193152	1193155	(EPA 524.2)	tert-amyl Methyl Ether	ND	ug/L	3.0	1
08/25/19	08/26/19 1:17	1193152	1193155	(EPA 524.2)	tert-Butyl Ethyl Ether	ND	ug/L	3.0	1
08/25/19	08/26/19 1:17	1193152	1193155	(EPA 524.2)	tert-Butylbenzene	ND	ug/L	0.50	1
08/25/19	08/26/19 1:17	1193152	1193155	(EPA 524.2)	Tetrachloroethylene (PCE)	ND	ug/L	0.50	1
08/25/19	08/26/19 1:17	1193152	1193155	(EPA 524.2)	Toluene	ND	ug/L	0.50	1
08/25/19	08/26/19 1:17	1193152	1193155	(EPA 524.2)	Total 1,3-Dichloropropene	ND	ug/L	0.50	1
08/25/19	08/26/19 1:17	1193152	1193155	(EPA 524.2)	Total THM	1.2	ug/L	0.50	1
08/25/19	08/26/19 1:17	1193152	1193155	(EPA 524.2)	Total xylenes	ND	ug/L	0.50	1
08/25/19	08/26/19 1:17	1193152	1193155	(EPA 524.2)	trans-1,2-Dichloroethylene	ND	ug/L	0.50	1
08/25/19	08/26/19 1:17	1193152	1193155	(EPA 524.2)	trans-1,3-Dichloropropene	ND	ug/L	0.50	1
08/25/19	08/26/19 1:17	1193152	1193155	(EPA 524.2)	Trichloroethylene (TCE)	ND	ug/L	0.50	1
08/25/19	08/26/19 1:17	1193152	1193155	(EPA 524.2)	Trichlorofluoromethane	ND	ug/L	0.50	1
08/25/19	08/26/19 1:17	1193152	1193155	(EPA 524.2)	Trichlorotrifluoroethane(Freon 113)	ND	ug/L	0.50	1
08/25/19	08/26/19 1:17	1193152	1193155	(EPA 524.2)	Vinyl chloride (VC)	ND	ug/L	0.30	1
08/25/19	08/26/19 1:17	1193152	1193155	(EPA 524.2)	1,2-Dichloroethane-d4	103	%		1
08/25/19	08/26/19 1:17	1193152	1193155	(EPA 524.2)	4-Bromofluorobenzene	111	%		1
08/25/19	08/26/19 1:17	1193152	1193155	(EPA 524.2)	Toluene-d8	98	%		1
SM4500CN-F - Cyanide									
	08/22/19 17:45		1192454	(SM4500CN-F)	Cyanide	ND	mg/L	0.025	1
SM 2150B - Odor at 60 C (TON)									
	08/14/19 17:47		1190811	(SM 2150B)	Odor at 60 C (TON)	ND	TON	1.0	1
SM 4500F-C - Fluoride									
	08/15/19 20:48		1191101	(SM 4500F-C)	Fluoride	ND	mg/L	0.050	1
E160.1/SM2540C - Total Dissolved Solids (TDS)									
08/15/19	08/15/19 21:54		1190792	1191113 (E160.1/SM2540C)	Total Dissolved Solids (TDS)	ND	mg/L	10	1
EPA 180.1 - Turbidity									
	08/15/19 14:00		1190944	(EPA 180.1)	Turbidity	0.11	NTU	0.10	1
4500HB/ E 150 - PH, Bottled Water									
	08/13/19 20:29		1190420	(4500HB/ E 150)	PH Bottled Water	6.1	Units	0.10	1
SM 2120B - Apparent Color									
	08/16/19 00:02		1191404	(SM 2120B)	Apparent Color	ND	ACU	3.0	1
SM 4500-CLO2-D/HACH - Chlorine Dioxide (H3=past HT not compliant)									

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	08/13/19 17:32		1190719	(SM 4500-CLO2-D/HACH)	Chlorine Dioxide (H3=past HT not compliant)	ND	mg/L	0.24	1
					SM 4500-CL G - Total Chlorine Residual (H3=past HT not compliant)				
	08/13/19 17:32		1190360	(SM 4500-CL G)	Total Chlorine Residual (H3=past HT not compliant)	ND	mg/L	0.10	1
					SM 4500CL-G/HACH - Free Chlorine Residual (H3=past HT not compliant)				
	08/13/19 17:32		1190720	(SM 4500CL-G/HACH)	Free Chlorine Residual (H3=past HT not compliant)	ND	mg/L	0.10	1
					SM 4500CL-G/HACH - Chloramines (H3=past HT not compliant)				
	08/13/19 17:30		1190715	(SM 4500CL-G/HACH)	Chloramines (H3=past HT not compliant)	ND	mg/L	0.10	1

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Alum Beverages

EPA Method 504.1

Prep Batch: 1189771 Analytical Batch: 1190127

201908130168 Blue Can FDA suite 8/9/19 11:22 355mL

Analysis Date: 08/16/2019

Analyzed by: DYM

Nitrate, Nitrite by EPA 300.0

Analytical Batch: 1190358

201908130168 Blue Can FDA suite 8/9/19 11:22 355mL

Analysis Date: 08/13/2019

Analyzed by: TR7W

Chloride, Sulfate by EPA 300.0

Analytical Batch: 1190359

201908130168 Blue Can FDA suite 8/9/19 11:22 355mL

Analysis Date: 08/13/2019

Analyzed by: TR7W

Total Chlorine Residual (H3=past HT not compli

Analytical Batch: 1190360

201908130168 Blue Can FDA suite 8/9/19 11:22 355mL

Analysis Date: 08/13/2019

Analyzed by: NJR

ICP Metals

Prep Batch: 1190212 Analytical Batch: 1190418

201908130168 Blue Can FDA suite 8/9/19 11:22 355mL

Analysis Date: 08/14/2019

Analyzed by: 6Q4

PH, Bottled Water

Analytical Batch: 1190420

201908130168 Blue Can FDA suite 8/9/19 11:22 355mL

Analysis Date: 08/13/2019

Analyzed by: BM2O

Quantitray Coliforms 18 Hour

Prep Batch: 1190538 Analytical Batch: 1190623

201908130168 Blue Can FDA suite 8/9/19 11:22 355mL

Analysis Date: 08/14/2019

Analyzed by: VWA4

Chloramines (H3=past HT not compliant)

Analytical Batch: 1190715

201908130168 Blue Can FDA suite 8/9/19 11:22 355mL

Analysis Date: 08/13/2019

Analyzed by: NJR

Chlorine Dioxide (H3=past HT not compliant)

Analytical Batch: 1190719

201908130168 Blue Can FDA suite 8/9/19 11:22 355mL

Analysis Date: 08/13/2019

Analyzed by: NJR

Free Chlorine Residual (H3=past HT not compli

Analytical Batch: 1190720

201908130168 Blue Can FDA suite 8/9/19 11:22 355mL

Analysis Date: 08/13/2019

Analyzed by: NJR

Diquat and Paraquat

Prep Batch: 1190351 Analytical Batch: 1190740

201908130168 Blue Can FDA suite 8/9/19 11:22 355mL

Analysis Date: 08/14/2019

Analyzed by: XWO

Odor at 60 C (TON)

Analytical Batch: 1190811

201908130168 Blue Can FDA suite 8/9/19 11:22 355mL

Analysis Date: 08/14/2019

Analyzed by: BM2O

Endothall

Prep Batch: 1190155 Analytical Batch: 1190836

201908130168 Blue Can FDA suite 8/9/19 11:22 355mL

Analysis Date: 08/15/2019

Analyzed by: X8AA

Report: 821072
Project: BW
Group: Blue Can FDA product

Alum Beverages

Aldicarbs
Analytical Batch: 1190895

201908130168 Blue Can FDA suite 8/9/19 11:22 355mL

Analysis Date: 08/15/2019

Analyzed by: XWO

Turbidity
Analytical Batch: 1190944

201908130168 Blue Can FDA suite 8/9/19 11:22 355mL

Analysis Date: 08/15/2019

Analyzed by: T4ZB

Fluoride
Analytical Batch: 1191101

201908130168 Blue Can FDA suite 8/9/19 11:22 355mL

Analysis Date: 08/15/2019

Analyzed by: BM2O

Total Dissolved Solids (TDS)
Prep Batch: 1190792 Analytical Batch: 1191113

201908130168 Blue Can FDA suite 8/9/19 11:22 355mL

Analysis Date: 08/15/2019

Analyzed by: TJ52

Apparent Color
Analytical Batch: 1191404

201908130168 Blue Can FDA suite 8/9/19 11:22 355mL

Analysis Date: 08/16/2019

Analyzed by: AP6M

Glyphosate
Analytical Batch: 1191445

201908130168 Blue Can FDA suite 8/9/19 11:22 355mL

Analysis Date: 08/18/2019

Analyzed by: DYM

Phenolic Compounds-low level
Analytical Batch: 1191694

201908130168 Blue Can FDA suite 8/9/19 11:22 355mL

Analysis Date: 08/19/2019

Analyzed by: MIA8

Chlorite by 300.0
Analytical Batch: 1191960

201908130168 Blue Can FDA suite 8/9/19 11:22 355mL

Analysis Date: 08/21/2019

Analyzed by: NJR

Cyanide
Analytical Batch: 1192454

201908130168 Blue Can FDA suite 8/9/19 11:22 355mL

Analysis Date: 08/22/2019

Analyzed by: B6ZC

Gross Alpha/Beta Radiation
Prep Batch: 1190829 Analytical Batch: 1192562

201908130168 Blue Can FDA suite 8/9/19 11:22 355mL

Analysis Date: 08/21/2019

Analyzed by: EAE5

Organochlorine Pesticides/PCBs
Prep Batch: 1191821 Analytical Batch: 1192603

201908130168 Blue Can FDA suite 8/9/19 11:22 355mL

Analysis Date: 08/20/2019

Analyzed by: VQT9

Chlorophenoxy Herbicides
Prep Batch: 1191559 Analytical Batch: 1192743

201908130168 Blue Can FDA suite 8/9/19 11:22 355mL

Analysis Date: 08/20/2019

Analyzed by: LRL

Perfluorinated Alkyl Acids EPA 537 rev 1.1
Analytical Batch: 1192799

201908130168 Blue Can FDA suite 8/9/19 11:22 355mL

Analysis Date: 08/22/2019

Analyzed by: KAM

Report: 821072
Project: BW
Group: Blue Can FDA product

Alum Beverages

Haloacetic Acids

Prep Batch: 1192653 **Analytical Batch:** 1192923

201908130168 Blue Can FDA suite 8/9/19 11:22 355mL

Analysis Date: 08/24/2019

Analyzed by: O2TX

Semivolatiles by GCMS

Prep Batch: 1191770 **Analytical Batch:** 1193044

201908130168 Blue Can FDA suite 8/9/19 11:22 355mL

Analysis Date: 08/23/2019

Analyzed by: JWC

ICPMS Metals

Prep Batch: 1190212 **Analytical Batch:** 1193143

201908130168 Blue Can FDA suite 8/9/19 11:22 355mL

Analysis Date: 08/26/2019

Analyzed by: LUPE

Volatile Organics by GCMS

Prep Batch: 1193152 **Analytical Batch:** 1193155

201908130168 Blue Can FDA suite 8/9/19 11:22 355mL

Analysis Date: 08/26/2019

Analyzed by: TG9W

2,3,7,8-TCDD_Dioxin

Prep Batch: 1192388 **Analytical Batch:** 1193320

201908130168 Blue Can FDA suite 8/9/19 11:22 355mL

Analysis Date: 08/26/2019

Analyzed by: JYH

Bromate by UV/VIS 317

Analytical Batch: 1193775

201908130168 Blue Can FDA suite 8/9/19 11:22 355mL

Analysis Date: 08/28/2019

Analyzed by: J7RA

Mercury Total

Prep Batch: 1193682 **Analytical Batch:** 1194073

201908130168 Blue Can FDA suite 8/9/19 11:22 355mL

Analysis Date: 08/28/2019

Analyzed by: AZS

Volatile Organics by GCMS

Prep Batch: 1194248 **Analytical Batch:** 1194259

201908130168 Blue Can FDA suite 8/9/19 11:22 355mL

Analysis Date: 08/29/2019

Analyzed by: TG9W

Radium 226

Prep Batch: 1190843 **Analytical Batch:** 1195151

201908130168 Blue Can FDA suite 8/9/19 11:22 355mL

Analysis Date: 08/30/2019

Analyzed by: EAE5

Radium 228

Prep Batch: 1190848 **Analytical Batch:** 1195154

201908130168 Blue Can FDA suite 8/9/19 11:22 355mL

Analysis Date: 08/30/2019

Analyzed by: EAE5

ICPMS Metals

Prep Batch: 1190212 **Analytical Batch:** 1197486

201908130168 Blue Can FDA suite 8/9/19 11:22 355mL

Analysis Date: 09/17/2019

Analyzed by: NINA

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Report: 821072
Project: BW
Group: Blue Can FDA product

Alum Beverages

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
EPA Method 504.1 by EPA 504.1									
Analytical Batch: 1190127					Analysis Date: 08/15/2019				
CCCH	1,2,3-Trichloropropane		1.3	1.22	ug/L	98	(70-130)		
CCCM2	1,2,3-Trichloropropane		0.25	0.276	ug/L	111	(70-130)		
DUP_201908090188	1,2,3-Trichloropropane	ND		ND	ug/L		(0-20)		
LCS2	1,2,3-Trichloropropane		0.2	0.210	ug/L	105	(70-130)		
MBLK	1,2,3-Trichloropropane			0	ug/L				
MRL_CHK	1,2,3-Trichloropropane		0.05	0.0500	ug/L	100	(60-140)		
MRLLW	1,2,3-Trichloropropane		0.02	0.0189	ug/L	95	(60-140)		
MS_201908090175	1,2,3-Trichloropropane	ND	1.3	1.28	ug/L	102	(65-135)		
CCCH	1,2-Dibromo-3-chloropropane		0.25	0.247	ug/L	99	(70-130)		
CCCM2	1,2-Dibromo-3-chloropropane		0.05	0.0525	ug/L	105	(70-130)		
DUP_201908090188	1,2-Dibromo-3-chloropropane	ND		ND	ug/L		(0-20)		
LCS2	1,2-Dibromo-3-chloropropane		0.2	0.201	ug/L	101	(70-130)		
MBLK	1,2-Dibromo-3-chloropropane			0	ug/L				
MRL_CHK	1,2-Dibromo-3-chloropropane		0.01	0.00920	ug/L	92	(60-140)		
MS_201908090175	1,2-Dibromo-3-chloropropane	ND	0.25	0.258	ug/L	103	(65-135)		
CCCH	1,2-Dibromoethane		0.25	0.240	ug/L	96	(70-130)		
CCCM2	1,2-Dibromoethane		0.05	0.0526	ug/L	105	(70-130)		
DUP_201908090188	1,2-Dibromoethane	ND		ND	ug/L		(0-20)		
LCS2	1,2-Dibromoethane		0.2	0.195	ug/L	98	(70-130)		
MBLK	1,2-Dibromoethane			0	ug/L				
MRL_CHK	1,2-Dibromoethane		0.01	0.00960	ug/L	96	(60-140)		
MS_201908090175	1,2-Dibromoethane	ND	0.25	0.252	ug/L	101	(65-135)		
CCCH	1,2-Dibromopropane (S)		100	102	%	102	(60-140)		
CCCM2	1,2-Dibromopropane (S)		100	102	%	102	(60-140)		
DUP_201908090188	1,2-Dibromopropane (S)		100	100	%	101	(60-140)		
LCS2	1,2-Dibromopropane (S)		100	97.3	%	97	(60-140)		
MBLK	1,2-Dibromopropane (S)			96.2	%	96	(60-140)		
MRL_CHK	1,2-Dibromopropane (S)		100	97.2	%	97	(60-140)		
MRLLW	1,2-Dibromopropane (S)		100	98.5	%	98	(60-140)		
MS_201908090175	1,2-Dibromopropane (S)		100	95.3	%	95	(60-140)		

Nitrate, Nitrite by EPA 300.0 by EPA 300.0

Analytical Batch: 1190358

Analysis Date: 08/13/2019

LCS1	Nitrate as Nitrogen by IC	2.5	2.44	mg/L	98	(90-110)		
LCS2	Nitrate as Nitrogen by IC	2.5	2.44	mg/L	98	(90-110)	20	0.0

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.

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Report: 821072
Project: BW
Group: Blue Can FDA product

Alum Beverages

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
MBLK	Nitrate as Nitrogen by IC			<0.05	mg/L				
MRL_CHK	Nitrate as Nitrogen by IC		0.05	0.0508	mg/L	102	(50-150)		
MS_201908130156	Nitrate as Nitrogen by IC	ND	6.5	6.16	mg/L	99	(80-120)		
MS_201908130160	Nitrate as Nitrogen by IC	ND	2.6	2.45	mg/L	98	(80-120)		
MSD_201908130156	Nitrate as Nitrogen by IC	ND	6.5	6.17	mg/L	99	(80-120)	20	0.22
MSD_201908130160	Nitrate as Nitrogen by IC	ND	2.6	2.44	mg/L	98	(80-120)	20	0.28
LCS1	Nitrite Nitrogen by IC		1	0.960	mg/L	96	(90-110)		
LCS2	Nitrite Nitrogen by IC		1	0.963	mg/L	96	(90-110)	20	0.31
MBLK	Nitrite Nitrogen by IC			<0.025	mg/L				
MRL_CHK	Nitrite Nitrogen by IC		0.05	0.0499	mg/L	100	(50-150)		
MS_201908130156	Nitrite Nitrogen by IC	ND	2.5	2.38	mg/L	95	(80-120)		
MS_201908130160	Nitrite Nitrogen by IC	ND	1	0.944	mg/L	94	(80-120)		
MSD_201908130156	Nitrite Nitrogen by IC	ND	2.5	2.39	mg/L	96	(80-120)	20	0.40
MSD_201908130160	Nitrite Nitrogen by IC	ND	1	0.944	mg/L	94	(80-120)	20	0.021

Chloride, Sulfate by EPA 300.0 by EPA 300.0

Analytical Batch: 1190359

Analysis Date: 08/13/2019

LCS1	Chloride		25	24.8	mg/L	99	(90-110)		
LCS2	Chloride		25	24.9	mg/L	100	(90-110)	20	0.40
MBLK	Chloride			<0.25	mg/L				
MRL_CHK	Chloride		0.5	0.452	mg/L	90	(50-150)		
MS_201908130156	Chloride	49	65	113	mg/L	103	(80-120)		
MS_201908130160	Chloride	29	26	55.4	mg/L	105	(80-120)		
MSD_201908130156	Chloride	49	65	114	mg/L	104	(80-120)	20	0.55
MSD_201908130160	Chloride	29	26	55.2	mg/L	105	(80-120)	20	0.31
LCS1	Sulfate		50	49.4	mg/L	99	(90-110)		
LCS2	Sulfate		50	49.4	mg/L	99	(90-110)	20	0.20
MBLK	Sulfate			<0.125	mg/L				
MRL_CHK	Sulfate		1	0.981	mg/L	98	(50-150)		
MRLLW	Sulfate		0.25	0.255	mg/L	102	(50-150)		
MS_201908130156	Sulfate	82	125	206	mg/L	100	(80-120)		
MS_201908130160	Sulfate	27	50	77.6	mg/L	101	(80-120)		
MSD_201908130156	Sulfate	82	125	207	mg/L	100	(80-120)	20	0.43
MSD_201908130160	Sulfate	27	50	79.4	mg/L	105	(80-120)	20	2.4

Total Chlorine Residual (H3=past HT not compliant) by SM 4500-CL G

Analytical Batch: 1190360

Analysis Date: 08/13/2019

DUP_201908130168	Total Chlorine Residual	ND		0.0700	mg/L		(0-20)	20	0.0
DUP_201908130177	Total Chlorine Residual	ND		0.0100	mg/L		(0-20)	20	0.0

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.

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Report: 821072
Project: BW
Group: Blue Can FDA product

Alum Beverages

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
LCS1	Total Chlorine Residual		1	0.980	mg/L	98	(85-115)		
LCS2	Total Chlorine Residual		1	0.950	mg/L	95	(85-115)	20	3.1
MBLK	Total Chlorine Residual			<0.1	mg/L				
MRL_CHK	Total Chlorine Residual		0.1	0.110	mg/L	110	(50-150)		

ICP Metals by EPA 200.7

Analytical Batch: 1190418

Analysis Date: 08/14/2019

LCS1	Iron Total ICAP		5	5.02	mg/L	100	(85-115)		
LCS2	Iron Total ICAP		5	5.01	mg/L	100	(85-115)	20	0.20
MBLK	Iron Total ICAP			<0.01	mg/L				
MRL_CHK	Iron Total ICAP		0.02	0.0204	mg/L	102	(50-150)		
MS_201907230056	Iron Total ICAP	ND	5	5.16	mg/L	103	(70-130)		
MS2_201908130509	Iron Total ICAP	0.59	5	5.65	mg/L	101	(70-130)		
MSD_201907230056	Iron Total ICAP	ND	5	5.27	mg/L	105	(70-130)	20	2.1
MSD2_201908130509	Iron Total ICAP	0.59	5	5.70	mg/L	102	(70-130)	20	0.82

PH, Bottled Water by 4500HB/ E 150

Analytical Batch: 1190420

Analysis Date: 08/13/2019

DUP_201908140569	PH Bottled Water	8.0		8.08	Units		(0-20)	20	0.75
LCS1	PH Bottled Water		6	5.94	Units	99	(98-102)		
LCS2	PH Bottled Water		6	5.94	Units	99	(98-102)	20	0.0

Chloramines (H3=past HT not compliant) by SM 4500CL-G/HACH

Analytical Batch: 1190715

Analysis Date: 08/13/2019

DUP_201908130168	Chloramines	ND		0.0500	mg/L		(0-20)	20	0.0
DUP_201908130177	Chloramines	ND		0	mg/L		(0-20)		

Chlorine Dioxide (H3=past HT not compliant) by SM 4500-CLO2-D/HACH

Analytical Batch: 1190719

Analysis Date: 08/13/2019

DUP_201908130168	Chlorine Dioxide	ND		0.0600	mg/L		(0-20)	20	0.0
DUP_201908130177	Chlorine Dioxide	ND		0.0300	mg/L		(0-20)	20	0.0
LCS1	Chlorine Dioxide		2.4	2.29	mg/L	95	(85-115)		
LCS2	Chlorine Dioxide		2.4	2.24	mg/L	93	(85-115)	20	2.2
MBLK	Chlorine Dioxide			<0.24	mg/L				
MRL_CHK	Chlorine Dioxide		0.24	0.240	mg/L	100	(50-150)		

Free Chlorine Residual (H3=past HT not compliant) by SM 4500CL-G/HACH

Analytical Batch: 1190720

Analysis Date: 08/13/2019

DUP_201908130168	Free Chlorine Residual	ND		0.0200	mg/L		(0-20)	20	0.0
DUP_201908130177	Free Chlorine Residual	ND		0.0100	mg/L		(0-20)	20	0.0

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

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Report: 821072
Project: BW
Group: Blue Can FDA product

Alum Beverages

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
LCS1	Free Chlorine Residual		1	0.960	mg/L	96	(85-115)		
LCS2	Free Chlorine Residual		1	0.950	mg/L	95	(85-115)	20	1.1
MBLK	Free Chlorine Residual			<0.1	mg/L				
MRL_CHK	Free Chlorine Residual		0.1	0.110	mg/L	110	(50-150)		

Diquat and Paraquat by EPA 549.2

Analytical Batch: 1190740

Analysis Date: 08/14/2019

CCCL	Diquat		0.4	0.403	ug/L	101	(50-150)		
CCCM	Diquat		4	4.05	ug/L	101	(80-120)		
LCS1	Diquat		5	4.24	ug/L	85	(73-96)		
MBLK	Diquat			<0.4	ug/L				
MRLLW	Diquat		0.4	0.378	ug/L	95	(50-150)		
MS_201908130168	Diquat	ND	5	4.12	ug/L	82	(70-130)		
MSD_201908130168	Diquat	ND	5	4.76	ug/L	95	(70-130)	20	15
CCCL	Paraquat		2	2.16	ug/L	108	(50-150)		
CCCM	Paraquat		4	4.15	ug/L	104	(80-120)		
LCS1	Paraquat		5	4.21	ug/L	84	(71-104)		
MBLK	Paraquat			<2	ug/L				
MRL_CHK	Paraquat		2	1.72	ug/L	86	(50-150)		
MS_201908130168	Paraquat	ND	5	4.10	ug/L	82	(70-130)		
MSD_201908130168	Paraquat	ND	5	4.79	ug/L	96	(70-130)	20	16

Odor at 60 C (TON) by SM 2150B

Analytical Batch: 1190811

Analysis Date: 08/14/2019

DUP1_201908150278	Odor at 60 C (TON)	2.0		2.00	TON		(0-20)	20	0.0
MBLK	Odor at 60 C (TON)			<1	TON				

Endothall by EPA 548.1

Prep Batch: 1190155 Analytical Batch: 1190836

Analysis Date: 08/15/2019

LCS1	Endothall		25	22.8	ug/L	91	(66-117)		
LCS2	Endothall		25	25.0	ug/L	100	(66-117)	30	8.8
MBLK	Endothall			<5	ug/L				
MRL_CHK	Endothall		5	6.54	ug/L	131	(50-150)		
MS_201908100173	Endothall	ND	25	6.52	ug/L	<u>26</u>	(66-117)		
MS_2ND_201908090361	Endothall	ND	25	25.1	ug/L	101	(66-117)		
MSD_201908100173	Endothall	ND	25	7.76	ug/L	<u>31</u>	(66-117)	30	17

Aldicarbs by EPA 531.2

Analytical Batch: 1190895

Analysis Date: 08/14/2019

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.

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Report: 821072
Project: BW
Group: Blue Can FDA product

Alum Beverages

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
CCCH	3-Hydroxycarbofuran		25	24.9	ug/L	100	(70-130)		
CCCM	3-Hydroxycarbofuran		10	10.0	ug/L	100	(70-130)		
LCS	3-Hydroxycarbofuran		5	5.06	ug/L	101	(70-130)		
MBLK	3-Hydroxycarbofuran			<0.167	ug/L				
MRL_CHK	3-Hydroxycarbofuran		0.5	0.500	ug/L	100	(50-150)		
MS1_201908100147	3-Hydroxycarbofuran	ND	5	5.02	ug/L	100	(70-130)		
MSD1_201908100147	3-Hydroxycarbofuran	ND	5	5.02	ug/L	100	(70-130)	20	0.082
CCCH	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate (S)			98.0	%	98	(70-130)		
CCCM	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate (S)			95.8	%	96	(70-130)		
LCS	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate (S)			105	%	105	(70-130)		
MBLK	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate (S)			102	%	102	(70-130)		
MRL_CHK	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate (S)		100	102	%	102	(70-130)		
MS1_201908100147	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate (S)			101	%	101	(70-130)		
MSD1_201908100147	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate (S)			105	%	105	(70-130)		
CCCH	Aldicarb (Temik)		25	22.0	ug/L	88	(70-130)		
CCCM	Aldicarb (Temik)		10	8.91	ug/L	89	(70-130)		
LCS	Aldicarb (Temik)		5	4.46	ug/L	89	(70-130)		
MBLK	Aldicarb (Temik)			<0.167	ug/L				
MRL_CHK	Aldicarb (Temik)		0.5	0.428	ug/L	86	(50-150)		
MS1_201908100147	Aldicarb (Temik)	ND	5	5.12	ug/L	102	(70-130)		
MSD1_201908100147	Aldicarb (Temik)	ND	5	5.20	ug/L	104	(70-130)	20	1.5
CCCH	Aldicarb sulfone		25	25.6	ug/L	102	(70-130)		
CCCM	Aldicarb sulfone		10	10.2	ug/L	102	(70-130)		
LCS	Aldicarb sulfone		5	5.46	ug/L	109	(70-130)		
MBLK	Aldicarb sulfone			<0.167	ug/L				
MRL_CHK	Aldicarb sulfone		0.5	0.538	ug/L	108	(50-150)		
MS1_201908100147	Aldicarb sulfone	ND	5	5.09	ug/L	102	(70-130)		
MSD1_201908100147	Aldicarb sulfone	ND	5	5.17	ug/L	103	(70-130)	20	1.5
CCCH	Aldicarb sulfoxide		25	23.7	ug/L	95	(70-130)		
CCCM	Aldicarb sulfoxide		10	9.68	ug/L	97	(70-130)		
LCS	Aldicarb sulfoxide		5	4.80	ug/L	96	(70-130)		
MBLK	Aldicarb sulfoxide			<0.167	ug/L				
MRL_CHK	Aldicarb sulfoxide		0.5	0.548	ug/L	110	(50-150)		
MS1_201908100147	Aldicarb sulfoxide	ND	5	5.08	ug/L	102	(70-130)		
MSD1_201908100147	Aldicarb sulfoxide	ND	5	4.96	ug/L	99	(70-130)	20	2.5
CCCH	Baygon		25	24.9	ug/L	100	(70-130)		
CCCM	Baygon		10	10.2	ug/L	102	(70-130)		
LCS	Baygon		5	5.14	ug/L	103	(70-130)		

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Report: 821072
Project: BW
Group: Blue Can FDA product

Alum Beverages

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
MBLK	Baygon			<0.167	ug/L				
MRL_CHK	Baygon		0.5	0.491	ug/L	98	(50-150)		
MS1_201908100147	Baygon	ND	5	5.12	ug/L	102	(70-130)		
MSD1_201908100147	Baygon	ND	5	5.13	ug/L	103	(70-130)	20	0.25
CCCH	Carbaryl		25	25.0	ug/L	100	(70-130)		
CCCM	Carbaryl		10	10.0	ug/L	100	(70-130)		
LCS	Carbaryl		5	5.11	ug/L	102	(70-130)		
MBLK	Carbaryl			<0.167	ug/L				
MRL_CHK	Carbaryl		0.5	0.470	ug/L	94	(50-150)		
MS1_201908100147	Carbaryl	ND	5	4.99	ug/L	100	(70-130)		
MSD1_201908100147	Carbaryl	ND	5	4.98	ug/L	100	(70-130)	20	0.26
CCCH	Carbofuran (Furadan)		25	24.9	ug/L	100	(70-130)		
CCCM	Carbofuran (Furadan)		10	10.1	ug/L	101	(70-130)		
LCS	Carbofuran (Furadan)		5	5.08	ug/L	102	(70-130)		
MBLK	Carbofuran (Furadan)			<0.167	ug/L				
MRL_CHK	Carbofuran (Furadan)		0.5	0.425	ug/L	85	(50-150)		
MS1_201908100147	Carbofuran (Furadan)	ND	5	5.07	ug/L	101	(70-130)		
MSD1_201908100147	Carbofuran (Furadan)	ND	5	4.90	ug/L	98	(70-130)	20	3.4
CCCH	Methiocarb		25	24.9	ug/L	100	(70-130)		
CCCM	Methiocarb		10	9.78	ug/L	98	(70-130)		
LCS	Methiocarb		5	4.90	ug/L	98	(70-130)		
MBLK	Methiocarb			<0.167	ug/L				
MRL_CHK	Methiocarb		0.5	0.458	ug/L	92	(50-150)		
MS1_201908100147	Methiocarb	ND	5	4.90	ug/L	98	(70-130)		
MSD1_201908100147	Methiocarb	ND	5	4.96	ug/L	99	(70-130)	20	1.2
CCCH	Methomyl		25	23.8	ug/L	95	(70-130)		
CCCM	Methomyl		10	9.51	ug/L	95	(70-130)		
LCS	Methomyl		5	4.53	ug/L	91	(70-130)		
MBLK	Methomyl			<0.167	ug/L				
MRL_CHK	Methomyl		0.5	0.477	ug/L	95	(50-150)		
MS1_201908100147	Methomyl	ND	5	5.10	ug/L	102	(70-130)		
MSD1_201908100147	Methomyl	ND	5	5.05	ug/L	101	(70-130)	20	0.92
CCCH	Oxamyl (Vydate)		25	25.4	ug/L	102	(70-130)		
CCCM	Oxamyl (Vydate)		10	10.4	ug/L	104	(70-130)		
LCS	Oxamyl (Vydate)		5	4.96	ug/L	99	(70-130)		
MBLK	Oxamyl (Vydate)			<0.167	ug/L				
MRL_CHK	Oxamyl (Vydate)		0.5	0.446	ug/L	89	(50-150)		
MS1_201908100147	Oxamyl (Vydate)	ND	5	5.14	ug/L	103	(70-130)		

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Alum Beverages

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
MSD1_201908100147	Oxamyl (Vydate)	ND	5	5.13	ug/L	103	(70-130)	20	0.16

Turbidity by EPA 180.1

Analytical Batch: 1190944

Analysis Date: 08/15/2019

DUP1_201908150118	Turbidity	ND		0.0710	NTU		(0-20)	20	11
DUP2_201908150119	Turbidity	0.32		0.316	NTU		(0-20)	20	1.9
LCS1	Turbidity		20	19.9	NTU	100	(90-110)		
LCS2	Turbidity		20	19.7	NTU	99	(90-110)	20	1.0
MBLK	Turbidity			<0.10	NTU				
MRLHI	Turbidity		0.1	0.0680	NTU	68	(50-150)		

Fluoride by SM 4500F-C

Analytical Batch: 1191101

Analysis Date: 08/15/2019

LCS1	Fluoride		1	1.00	mg/L	100	(90-110)		
LCS2	Fluoride		1	1.00	mg/L	100	(90-110)	20	0.0
MBLK	Fluoride			<0.025	mg/L				
MRL_CHK	Fluoride		0.05	0.0500	mg/L	100	(50-150)		
MS_201908140378	Fluoride	0.12	1	1.08	mg/L	96	(80-120)		
MS2_201908130699	Fluoride	0.68	1	1.74	mg/L	106	(80-120)		
MSD_201908140378	Fluoride	0.12	1	1.09	mg/L	96	(80-120)	20	0.51
MSD2_201908130699	Fluoride	0.68	1	1.67	mg/L	99	(80-120)	20	3.9

Total Dissolved Solids (TDS) by E160.1/SM2540C

Analytical Batch: 1191113

Analysis Date: 08/15/2019

DUP_201908130817	Total Dissolved Solid (TDS)	1400		1470	mg/L		(0-10)	10	1.1
DUP_201908140557	Total Dissolved Solid (TDS)	170		172	mg/L		(0-10)	10	1.2
LCS1	Total Dissolved Solid (TDS)		175	168	mg/L	96	(80-114)		
LCS2	Total Dissolved Solid (TDS)		700	676	mg/L	97	(80-114)		
MBLK	Total Dissolved Solid (TDS)			<5	mg/L				
MRL_CHK	Total Dissolved Solid (TDS)		10	13.0	mg/L	130	(50-150)		

Apparent Color by SM 2120B

Analytical Batch: 1191404

Analysis Date: 08/15/2019

DUP1_201908160128	Apparent Color	ND		0	ACU		(0-20)		
DUP2_201908140730	Apparent Color	ND		0	ACU		(0-20)		
MBLK	Apparent Color			<0.5	ACU				

Glyphosate by EPA 547

Analytical Batch: 1191445

Analysis Date: 08/17/2019

CCCH	Glyphosate		25	25.3	ug/L	101	(80-120)		
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Laboratory QC

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CCCM	Glyphosate		10	10.0	ug/L	100	(80-120)		
LCS1	Glyphosate		10	10.0	ug/L	100	(80-120)		
MBLK	Glyphosate			<3	ug/L				
MRL_CHK	Glyphosate		6	5.83	ug/L	97	(50-150)		
MS_201908130168	Glyphosate	ND	10	9.16	ug/L	92	(70-130)		
MS2_201908150787	Glyphosate	ND	10	9.54	ug/L	95	(70-130)		
MSD_201908130168	Glyphosate	ND	10	9.26	ug/L	93	(70-130)	20	1.1

Phenolic Compounds-low level by EPA 420.4

Analytical Batch: 1191694

Analysis Date: 08/19/2019

LCS1	Phenolic Compounds-low level		20	19.4	ug/L	97	(90-110)		
LCS2	Phenolic Compounds-low level		20	19.9	ug/L	100	(90-110)	20	2.5
MBLK	Phenolic Compounds-low level			<0.50	ug/L				
MRL_CHK	Phenolic Compounds-low level		1	1.18	ug/L	118	(50-150)		
MS_201908140207	Phenolic Compounds-low level	ND	5	5.17	ug/L	91	(80-120)		
MS_201908190479	Phenolic Compounds-low level	23	5	25.2	ug/L	<u>50</u>	(80-120)		
MSD_201908140207	Phenolic Compounds-low level	ND	5	5.06	ug/L	88	(80-120)	20	2.2
MSD_201908190479	Phenolic Compounds-low level	23	5	25.1	ug/L	<u>47</u>	(80-120)	20	0.52

Chlorite by 300.0 by EPA 300.0

Analytical Batch: 1191960

Analysis Date: 08/20/2019

LCS1	Chlorite by IC		0.2	0.206	mg/L	103	(90-110)		
LCS2	Chlorite by IC		0.2	0.202	mg/L	101	(90-110)	10	2.0
MBLK	Chlorite by IC			<0.005	mg/L				
MRL_CHK	Chlorite by IC		0.01	0.0120	mg/L	120	(75-125)		
MS_201908190148	Chlorite by IC	0.50	0.1	0.599	mg/L	101	(80-120)		
MSD_201908190148	Chlorite by IC	0.50	0.1	0.599	mg/L	102	(80-120)	15	0.067

Cyanide by SM4500CN-F

Analytical Batch: 1192454

Analysis Date: 08/22/2019

LCS1	Cyanide		0.1	0.107	mg/L	107	(90-110)		
LCS2	Cyanide		0.1	0.109	mg/L	109	(90-110)	20	1.9
MBLK	Cyanide			<0.025	mg/L				
MRL_CHK	Cyanide		0.025	0.0288	mg/L	115	(50-150)		
MS_201908130515	Cyanide	ND	0.1	0.129	mg/L	108	(80-120)		
MS_201908140470	Cyanide	ND	0.1	0.114	mg/L	95	(80-120)		
MSD_201908130515	Cyanide	ND	0.1	0.125	mg/L	104	(80-120)	20	3.1
MSD_201908140470	Cyanide	ND	0.1	0.118	mg/L	99	(80-120)	20	3.5

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Alum Beverages

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
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Gross Alpha/Beta Radiation by EPA 900.0

Analytical Batch: 1192562

Analysis Date: 08/21/2019

DUP1_201908130111	Alpha, Gross	ND		ND	pCi/L		(0-20)		
LCS1	Alpha, Gross		31	29.0	pCi/L	93	(80-120)		
LCS2	Alpha, Gross		31	28.5	pCi/L	91	(80-120)	20	1.7
MBLK	Alpha, Gross			<3	pCi/L				
MS_201908130168	Alpha, Gross	ND	31	31.5	pCi/L	99	(70-130)		
DUP1_201908130111	Beta, Gross	ND		ND	pCi/L		(0-20)		
LCS1	Beta, Gross		30	32.1	pCi/L	106	(80-120)		
LCS2	Beta, Gross		30	32.3	pCi/L	107	(80-120)	20	0.62
MBLK	Beta, Gross			<3	pCi/L				
MS_201908130168	Beta, Gross	ND	30	31.4	pCi/L	101	(70-130)		

Organochlorine Pesticides/PCBs by EPA 505

Prep Batch: 1191821 Analytical Batch: 1192603

Analysis Date: 08/20/2019

CCCH	Alachlor (Alanex)		1	1.03	ug/L	103	(70-130)		
CCCH	Alachlor (Alanex)		1	0.935	ug/L	94	(70-130)		
CCCH	Alachlor (Alanex)		1	0.973	ug/L	97	(70-130)		
CCCH	Alachlor (Alanex)		1	1.09	ug/L	109	(70-130)		
MBLK	Alachlor (Alanex)			<0.1	ug/L				
MRL_CHK	Alachlor (Alanex)		0.1	0.0755	ug/L	76	(50-150)		
MS1_201908190148	Alachlor (Alanex)	ND	0.2	0.186	ug/L	93	(65-135)		
MS2_201908010061	Alachlor (Alanex)	ND	1	0.973	ug/L	97	(65-135)		
CCCH	Aldrin		0.1	0.107	ug/L	107	(70-130)		
CCCH	Aldrin		0.1	0.104	ug/L	104	(70-130)		
CCCH	Aldrin		0.1	0.102	ug/L	102	(70-130)		
CCCH	Aldrin		0.1	0.112	ug/L	112	(70-130)		
MBLK	Aldrin			<0.01	ug/L				
MRL_CHK	Aldrin		0.01	0.0104	ug/L	104	(50-150)		
MS1_201908190148	Aldrin	ND	0.02	0.0214	ug/L	103	(65-135)		
MS2_201908010061	Aldrin	ND	0.1	0.103	ug/L	103	(65-135)		
MBLK	Chlordane			<0.1	ug/L				
CCCH	Dieldrin		0.1	0.0968	ug/L	97	(70-130)		
CCCH	Dieldrin		0.1	0.0924	ug/L	92	(70-130)		
CCCH	Dieldrin		0.1	0.0913	ug/L	91	(70-130)		
CCCH	Dieldrin		0.1	0.101	ug/L	101	(70-130)		
MBLK	Dieldrin			<0.01	ug/L				
MRL_CHK	Dieldrin		0.01	0.0104	ug/L	104	(50-150)		

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Alum Beverages

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
MS1_201908190148	Dieldrin	ND	0.02	0.0206	ug/L	101	(65-135)		
MS2_201908010061	Dieldrin	ND	0.1	0.0911	ug/L	90	(65-135)		
CCCH	Endrin		0.1	0.0883	ug/L	88	(70-130)		
CCCH	Endrin		0.1	0.0799	ug/L	80	(70-130)		
CCCH	Endrin		0.1	0.0829	ug/L	83	(70-130)		
CCCH	Endrin		0.1	0.0932	ug/L	93	(70-130)		
MBLK	Endrin			<0.01	ug/L				
MRL_CHK	Endrin		0.01	0.00650	ug/L	65	(50-150)		
MS1_201908190148	Endrin	ND	0.02	0.0150	ug/L	75	(65-135)		
MS2_201908010061	Endrin	ND	0.1	0.0813	ug/L	81	(65-135)		
CCCH	Heptachlor		0.1	0.0973	ug/L	97	(70-130)		
CCCH	Heptachlor		0.1	0.0934	ug/L	93	(70-130)		
CCCH	Heptachlor		0.1	0.0945	ug/L	95	(70-130)		
CCCH	Heptachlor		0.1	0.103	ug/L	103	(70-130)		
MBLK	Heptachlor			<0.01	ug/L				
MRL_CHK	Heptachlor		0.01	0.00980	ug/L	98	(50-150)		
MS1_201908190148	Heptachlor	ND	0.02	0.0206	ug/L	100	(65-135)		
MS2_201908010061	Heptachlor	ND	0.1	0.0914	ug/L	91	(65-135)		
CCCH	Heptachlor Epoxide		0.1	0.0974	ug/L	97	(70-130)		
CCCH	Heptachlor Epoxide		0.1	0.0894	ug/L	89	(70-130)		
CCCH	Heptachlor Epoxide		0.1	0.0914	ug/L	91	(70-130)		
CCCH	Heptachlor Epoxide		0.1	0.102	ug/L	102	(70-130)		
MBLK	Heptachlor Epoxide			<0.01	ug/L				
MRL_CHK	Heptachlor Epoxide		0.01	0.00820	ug/L	82	(50-150)		
MS1_201908190148	Heptachlor Epoxide	ND	0.02	0.0188	ug/L	94	(65-135)		
MS2_201908010061	Heptachlor Epoxide	ND	0.1	0.0922	ug/L	92	(65-135)		
CCCH	Lindane (gamma-BHC)		0.1	0.102	ug/L	102	(70-130)		
CCCH	Lindane (gamma-BHC)		0.1	0.0973	ug/L	97	(70-130)		
CCCH	Lindane (gamma-BHC)		0.1	0.0976	ug/L	98	(70-130)		
CCCH	Lindane (gamma-BHC)		0.1	0.107	ug/L	107	(70-130)		
MBLK	Lindane (gamma-BHC)			<0.01	ug/L				
MRL_CHK	Lindane (gamma-BHC)		0.01	0.0111	ug/L	111	(50-150)		
MS1_201908190148	Lindane (gamma-BHC)	ND	0.02	0.0217	ug/L	106	(65-135)		
MS2_201908010061	Lindane (gamma-BHC)	ND	0.1	0.0960	ug/L	95	(65-135)		
CCCH	Methoxychlor		0.5	0.469	ug/L	94	(70-130)		
CCCH	Methoxychlor		0.5	0.393	ug/L	79	(70-130)		
CCCH	Methoxychlor		0.5	0.423	ug/L	85	(70-130)		
CCCH	Methoxychlor		0.5	0.480	ug/L	96	(70-130)		

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MBLK	Methoxychlor			<0.05	ug/L				
MRL_CHK	Methoxychlor		0.05	0.0453	ug/L	91	(50-150)		
MS1_201908190148	Methoxychlor	ND	0.1	0.0863	ug/L	86	(65-135)		
MS2_201908010061	Methoxychlor	ND	0.5	0.427	ug/L	85	(65-135)		
MBLK	PCB 1016 Aroclor			<0.08	ug/L				
MBLK	PCB 1221 Aroclor			<0.1	ug/L				
MBLK	PCB 1232 Aroclor			<0.1	ug/L				
MBLK	PCB 1242 Aroclor			<0.1	ug/L				
MBLK	PCB 1248 Aroclor			<0.1	ug/L				
MBLK	PCB 1254 Aroclor			<0.1	ug/L				
MBLK	PCB 1260 Aroclor			<0.1	ug/L				
CCCH	Toxaphene		2.5	1.89	ug/L	76	(70-130)		
CCCH	Toxaphene		2.5	2.32	ug/L	93	(70-130)		
MBLK	Toxaphene			<0.5	ug/L				
MRL_CHK	Toxaphene		0.5	0.380	ug/L	76	(50-150)		
MS1_201908190148	Toxaphene		2.5	2.41	ug/L	97	(65-135)		
MS2_201908010061	Toxaphene		2.5	2.14	ug/L	86	(65-135)		

Chlorophenoxy Herbicides by EPA 515.4

Analytical Batch: 1192743

Analysis Date: 08/20/2019

CCC3	2,4,5-T		4	3.89	ug/L	97	(70-130)		
CCCH	2,4,5-T		4	3.91	ug/L	98	(70-130)		
CCCM	2,4,5-T		1	1.04	ug/L	104	(70-130)		
MBLK	2,4,5-T			<0.066	ug/L				
MRL_CHK	2,4,5-T		0.2	0.188	ug/L	94	(50-150)		
MS2_201908130168	2,4,5-T	ND	0.75	0.829	ug/L	110	(70-130)		
MSD2_201908130168	2,4,5-T	ND	0.75	0.832	ug/L	111	(70-130)	30	0.41
CCC3	2,4,5-TP (Silvex)		4	3.92	ug/L	98	(70-130)		
CCCH	2,4,5-TP (Silvex)		4	3.62	ug/L	90	(70-130)		
CCCM	2,4,5-TP (Silvex)		1	0.884	ug/L	88	(70-130)		
MBLK	2,4,5-TP (Silvex)			<0.066	ug/L				
MRL_CHK	2,4,5-TP (Silvex)		0.2	0.182	ug/L	91	(50-150)		
MS2_201908130168	2,4,5-TP (Silvex)	ND	0.75	0.717	ug/L	94	(70-130)		
MSD2_201908130168	2,4,5-TP (Silvex)	ND	0.75	0.785	ug/L	103	(70-130)	30	9.0
CCC3	2,4-D		2	1.69	ug/L	85	(70-130)		
CCCH	2,4-D		2	1.70	ug/L	85	(70-130)		
CCCM	2,4-D		0.5	0.470	ug/L	94	(70-130)		
MBLK	2,4-D			<0.033	ug/L				

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Report: 821072
Project: BW
Group: Blue Can FDA product

Alum Beverages

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
MRL_CHK	2,4-D		0.1	0.135	ug/L	135	(50-150)		
MS2_201908130168	2,4-D	ND	0.38	0.454	ug/L	102	(70-130)		
MSD2_201908130168	2,4-D	ND	0.38	0.407	ug/L	89	(70-130)	30	11
CCC3	2,4-DB		40	36.6	ug/L	92	(70-130)		
CCCH	2,4-DB		40	35.8	ug/L	90	(70-130)		
CCCM	2,4-DB		10	8.97	ug/L	90	(70-130)		
MBLK	2,4-DB			<0.666	ug/L				
MRL_CHK	2,4-DB		2	2.09	ug/L	105	(50-150)		
MS2_201908130168	2,4-DB	ND	7.5	7.13	ug/L	95	(70-130)		
MSD2_201908130168	2,4-DB	ND	7.5	7.57	ug/L	101	(70-130)	30	6.0
CCC3	2,4-Dichlorophenyl acetic acid (S)		100	89.3	%	89	(70-130)		
CCCH	2,4-Dichlorophenyl acetic acid (S)		10	88.6	%	89	(70-130)		
CCCM	2,4-Dichlorophenyl acetic acid (S)		2.5	91.6	%	92	(70-130)		
MBLK	2,4-Dichlorophenyl acetic acid (S)			97.8	%	98	(70-130)		
MRL_CHK	2,4-Dichlorophenyl acetic acid (S)			95.5	%	95	(70-130)		
MS2_201908130168	2,4-Dichlorophenyl acetic acid (S)			90.4	%	90	(70-130)		
MSD2_201908130168	2,4-Dichlorophenyl acetic acid (S)			94.1	%	94	(70-130)		
CCC3	3,5-Dichlorobenzoic acid		10	10.5	ug/L	105	(70-130)		
CCCH	3,5-Dichlorobenzoic acid		10	10.3	ug/L	103	(70-130)		
CCCM	3,5-Dichlorobenzoic acid		2.5	2.70	ug/L	108	(70-130)		
MBLK	3,5-Dichlorobenzoic acid			<0.166	ug/L				
MRL_CHK	3,5-Dichlorobenzoic acid		0.5	0.372	ug/L	74	(50-150)		
MS2_201908130168	3,5-Dichlorobenzoic acid	ND	1.9	1.68	ug/L	90	(70-130)		
MSD2_201908130168	3,5-Dichlorobenzoic acid	ND	1.9	1.74	ug/L	93	(70-130)	30	3.5
CCC3	4,4-Dibromooctafluorobiphenyl (I)		100	101	%	101	(50-150)		
CCCH	4,4-Dibromooctafluorobiphenyl (I)			101	%	101	(50-150)		
CCCM	4,4-Dibromooctafluorobiphenyl (I)			100	%	101	(50-150)		
MBLK	4,4-Dibromooctafluorobiphenyl (I)			103	%	103	(50-150)		
MRL_CHK	4,4-Dibromooctafluorobiphenyl (I)		100	101	%	101	(50-150)		
MS2_201908130168	4,4-Dibromooctafluorobiphenyl (I)			105	%	105	(50-150)		
MSD2_201908130168	4,4-Dibromooctafluorobiphenyl (I)			96.7	%	97	(50-150)		
CCC3	Acifluorfen		4	4.06	ug/L	102	(70-130)		
CCCH	Acifluorfen		4	3.86	ug/L	96	(70-130)		
CCCM	Acifluorfen		1	1.01	ug/L	101	(70-130)		
MBLK	Acifluorfen			<0.066	ug/L				
MRL_CHK	Acifluorfen		0.2	0.211	ug/L	105	(50-150)		
MS2_201908130168	Acifluorfen	ND	0.75	0.696	ug/L	93	(70-130)		
MSD2_201908130168	Acifluorfen	ND	0.75	0.748	ug/L	100	(70-130)	30	7.2

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Report: 821072
Project: BW
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Alum Beverages

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
CCC3	Bentazon		10	9.13	ug/L	91	(70-130)		
CCCH	Bentazon		10	8.66	ug/L	87	(70-130)		
CCCM	Bentazon		2.5	2.27	ug/L	91	(70-130)		
MBLK	Bentazon			<0.166	ug/L				
MRL_CHK	Bentazon		0.5	0.275	ug/L	55	(50-150)		
MS2_201908130168	Bentazon	ND	1.9	1.77	ug/L	94	(70-130)		
MSD2_201908130168	Bentazon	ND	1.9	1.90	ug/L	101	(70-130)	30	7.2
CCC3	Dalapon		20	20.8	ug/L	104	(70-130)		
CCCH	Dalapon		20	21.1	ug/L	106	(70-130)		
CCCM	Dalapon		5	5.22	ug/L	104	(70-130)		
MBLK	Dalapon			<0.333	ug/L				
MRL_CHK	Dalapon		1	0.894	ug/L	89	(50-150)		
MS2_201908130168	Dalapon	ND	3.8	3.38	ug/L	82	(70-130)		
MSD2_201908130168	Dalapon	ND	3.8	3.87	ug/L	95	(70-130)	30	14
CCC3	Dicamba		2	1.88	ug/L	94	(70-130)		
CCCH	Dicamba		2	1.80	ug/L	90	(70-130)		
CCCM	Dicamba		0.5	0.552	ug/L	110	(70-130)		
MBLK	Dicamba			<0.033	ug/L				
MRL_CHK	Dicamba		0.1	0.142	ug/L	142	(50-150)		
MS2_201908130168	Dicamba	ND	0.38	0.319	ug/L	85	(70-130)		
MSD2_201908130168	Dicamba	ND	0.38	0.350	ug/L	93	(70-130)	30	9.4
CCC3	Dichlorprop		10	10.2	ug/L	102	(70-130)		
CCCH	Dichlorprop		10	10.0	ug/L	100	(70-130)		
CCCM	Dichlorprop		2.5	2.56	ug/L	102	(70-130)		
MBLK	Dichlorprop			<0.166	ug/L				
MRL_CHK	Dichlorprop		0.5	0.293	ug/L	59	(50-150)		
MS2_201908130168	Dichlorprop	ND	1.9	1.73	ug/L	92	(70-130)		
MSD2_201908130168	Dichlorprop	ND	1.9	1.85	ug/L	99	(70-130)	30	6.6
CCC3	Dinoseb		4	3.90	ug/L	98	(70-130)		
CCCH	Dinoseb		4	3.83	ug/L	96	(70-130)		
CCCM	Dinoseb		1	0.961	ug/L	96	(70-130)		
MBLK	Dinoseb			<0.066	ug/L				
MRL_CHK	Dinoseb		0.2	0.176	ug/L	88	(50-150)		
MS2_201908130168	Dinoseb	ND	0.75	0.591	ug/L	79	(70-130)		
MSD2_201908130168	Dinoseb	ND	0.75	0.640	ug/L	85	(70-130)	30	7.9
CCC3	Pentachlorophenol		0.8	0.746	ug/L	93	(70-130)		
CCCH	Pentachlorophenol		0.8	0.724	ug/L	91	(70-130)		
CCCM	Pentachlorophenol		0.2	0.188	ug/L	94	(70-130)		

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Alum Beverages

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
MBLK	Pentachlorophenol			<0.013	ug/L				
MRL_CHK	Pentachlorophenol		0.04	0.0399	ug/L	100	(50-150)		
MS2_201908130168	Pentachlorophenol	ND	0.15	0.0488	ug/L	<u>33</u>	(70-130)		
MSD2_201908130168	Pentachlorophenol	ND	0.15	0.0619	ug/L	<u>41</u>	(70-130)	30	24
CCC3	Picloram		2	2.01	ug/L	101	(70-130)		
CCCH	Picloram		2	1.93	ug/L	97	(70-130)		
CCCM	Picloram		0.5	0.566	ug/L	113	(70-130)		
MBLK	Picloram			<0.033	ug/L				
MRL_CHK	Picloram		0.1	0.116	ug/L	116	(50-150)		
MS2_201908130168	Picloram	ND	0.38	0.360	ug/L	96	(70-130)		
MSD2_201908130168	Picloram	ND	0.38	0.410	ug/L	109	(70-130)	30	13
CCC3	Tot DCPA Mono&Diacid Degradate		2	2.08	ug/L	104	(70-130)		
CCCH	Tot DCPA Mono&Diacid Degradate		2	2.04	ug/L	102	(70-130)		
CCCM	Tot DCPA Mono&Diacid Degradate		0.5	0.458	ug/L	92	(70-130)		
MBLK	Tot DCPA Mono&Diacid Degradate			<0.033	ug/L				
MRL_CHK	Tot DCPA Mono&Diacid Degradate		0.1	0.111	ug/L	111	(50-150)		
MS2_201908130168	Tot DCPA Mono&Diacid Degradate	ND	0.38	0.344	ug/L	92	(70-130)		
MSD2_201908130168	Tot DCPA Mono&Diacid Degradate	ND	0.38	0.362	ug/L	97	(70-130)	30	5.5

Perfluorinated Alkyl Acids EPA 537 rev 1.1 by EPA 537

Analytical Batch: 1192799

Analysis Date: 08/22/2019

LCS1	13C-PFDA (S)		100	95.3	%	95	(70-130)
LCS2	13C-PFDA (S)		100	104	%	104	(70-130)
MBLK	13C-PFDA (S)			100	%	101	(70-130)
MRL_CHK	13C-PFDA (S)		100	103	%	103	(70-130)
MS_201908130424	13C-PFDA (S)		100	97.7	%	98	(70-130)
MSD_201908130424	13C-PFDA (S)		100	97.3	%	97	(70-130)
LCS1	13C-PFHxA (S)		100	91.6	%	92	(70-130)
LCS2	13C-PFHxA (S)		100	98.3	%	98	(70-130)
MBLK	13C-PFHxA (S)			98.0	%	98	(70-130)
MRL_CHK	13C-PFHxA (S)		100	97.5	%	98	(70-130)
MS_201908130424	13C-PFHxA (S)		100	96.8	%	97	(70-130)
MSD_201908130424	13C-PFHxA (S)		100	93.3	%	93	(70-130)
LCS1	13C-PFOA (I)		100	106	%	107	(50-150)
LCS2	13C-PFOA (I)		100	106	%	106	(50-150)
MBLK	13C-PFOA (I)			104	%	104	(50-150)
MRL_CHK	13C-PFOA (I)		100	106	%	106	(50-150)
MS_201908130424	13C-PFOA (I)		100	106	%	106	(50-150)

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Alum Beverages

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
MSD_201908130424	13C-PFOA (I)		100	104	%	104	(50-150)		
LCS1	13C-PFOS (I)		100	99.5	%	99	(50-150)		
LCS2	13C-PFOS (I)		100	104	%	104	(50-150)		
MBLK	13C-PFOS (I)			102	%	102	(50-150)		
MRL_CHK	13C-PFOS (I)		100	99.4	%	99	(50-150)		
MS_201908130424	13C-PFOS (I)		100	97.6	%	98	(50-150)		
MSD_201908130424	13C-PFOS (I)		100	101	%	101	(50-150)		
LCS1	d3-NMeFOSAA (I)		100	99.1	%	99	(50-150)		
LCS2	d3-NMeFOSAA (I)		100	98.5	%	99	(50-150)		
MBLK	d3-NMeFOSAA (I)			100	%	100	(50-150)		
MRL_CHK	d3-NMeFOSAA (I)		100	97.6	%	98	(50-150)		
MS_201908130424	d3-NMeFOSAA (I)		100	98.5	%	98	(50-150)		
MSD_201908130424	d3-NMeFOSAA (I)		100	98.8	%	99	(50-150)		
LCS1	d5-NEtFOSAA (S)		100	87.9	%	88	(70-130)		
LCS2	d5-NEtFOSAA (S)		100	95.2	%	95	(70-130)		
MBLK	d5-NEtFOSAA (S)			89.7	%	90	(70-130)		
MRL_CHK	d5-NEtFOSAA (S)		100	95.3	%	95	(70-130)		
MS_201908130424	d5-NEtFOSAA (S)		100	94.6	%	95	(70-130)		
MSD_201908130424	d5-NEtFOSAA (S)		100	89.0	%	89	(70-130)		
LCS1	N-ethyl Perfluorooctanesulfonamidoacetic acid		0.025	0.0252	ug/L	101	(70-130)		
LCS2	N-ethyl Perfluorooctanesulfonamidoacetic acid		0.025	0.0290	ug/L	116	(70-130)	30	14
MBLK	N-ethyl Perfluorooctanesulfonamidoacetic acid			<0.000667	ug/L				
MRL_CHK	N-ethyl Perfluorooctanesulfonamidoacetic acid		0.002	0.00257	ug/L	129	(50-150)		
MS_201908130424	N-ethyl Perfluorooctanesulfonamidoacetic acid	ND	0.002	0.00158	ug/L	77	(50-150)		
MSD_201908130424	N-ethyl Perfluorooctanesulfonamidoacetic acid	ND	0.002	0.00159	ug/L	77	(50-150)	50	0.38
LCS1	N-methyl Perfluorooctanesulfonamidoacetic acid		0.025	0.0236	ug/L	95	(70-130)		
LCS2	N-methyl Perfluorooctanesulfonamidoacetic acid		0.025	0.0267	ug/L	107	(70-130)	30	12
MBLK	N-methyl Perfluorooctanesulfonamidoacetic acid			<0.000667	ug/L				
MRL_CHK	N-methyl Perfluorooctanesulfonamidoacetic acid		0.002	0.00202	ug/L	101	(50-150)		
MS_201908130424	N-methyl Perfluorooctanesulfonamidoacetic acid	ND	0.002	0.00214	ug/L	96	(50-150)		
MSD_201908130424	N-methyl Perfluorooctanesulfonamidoacetic acid	ND	0.002	0.00188	ug/L	84	(50-150)	50	13
LCS1	Perfluorobutanesulfonic acid		0.022	0.0251	ug/L	113	(70-130)		
LCS2	Perfluorobutanesulfonic acid		0.022	0.0247	ug/L	112	(70-130)	30	1.6
MBLK	Perfluorobutanesulfonic acid			<0.00059	ug/L				
MRL_CHK	Perfluorobutanesulfonic acid		0.0018	0.00202	ug/L	114	(50-150)		
MS_201908130424	Perfluorobutanesulfonic acid	ND	0.0018	0.00209	ug/L	118	(50-150)		
MSD_201908130424	Perfluorobutanesulfonic acid	ND	0.0018	0.00187	ug/L	106	(50-150)	50	11
LCS1	Perfluorodecanoic acid		0.025	0.0253	ug/L	101	(70-130)		

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Alum Beverages

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
LCS2	Perfluorodecanoic acid		0.025	0.0274	ug/L	110	(70-130)	30	8.0
MBLK	Perfluorodecanoic acid			<0.000667	ug/L				
MRL_CHK	Perfluorodecanoic acid		0.002	0.00230	ug/L	115	(50-150)		
MS_201908130424	Perfluorodecanoic acid	ND	0.002	0.00193	ug/L	95	(50-150)		
MSD_201908130424	Perfluorodecanoic acid	ND	0.002	0.00225	ug/L	111	(50-150)	50	15
LCS1	Perfluorododecanoic acid		0.025	0.0264	ug/L	105	(70-130)		
LCS2	Perfluorododecanoic acid		0.025	0.0263	ug/L	105	(70-130)	30	0.38
MBLK	Perfluorododecanoic acid			<0.000667	ug/L				
MRL_CHK	Perfluorododecanoic acid		0.002	0.00229	ug/L	115	(50-150)		
MS_201908130424	Perfluorododecanoic acid	ND	0.002	0.00178	ug/L	89	(50-150)		
MSD_201908130424	Perfluorododecanoic acid	ND	0.002	0.00210	ug/L	105	(50-150)	50	17
LCS1	Perfluoroheptanoic acid		0.025	0.0251	ug/L	100	(70-130)		
LCS2	Perfluoroheptanoic acid		0.025	0.0274	ug/L	110	(70-130)	30	8.8
MBLK	Perfluoroheptanoic acid			<0.000667	ug/L				
MRL_CHK	Perfluoroheptanoic acid		0.002	0.00235	ug/L	117	(50-150)		
MS_201908130424	Perfluoroheptanoic acid	ND	0.002	0.00217	ug/L	103	(50-150)		
MSD_201908130424	Perfluoroheptanoic acid	ND	0.002	0.00221	ug/L	106	(50-150)	50	2.0
LCS1	Perfluorohexanesulfonic acid		0.023	0.0240	ug/L	105	(70-130)		
LCS2	Perfluorohexanesulfonic acid		0.023	0.0243	ug/L	107	(70-130)	30	1.2
MBLK	Perfluorohexanesulfonic acid			<0.000608	ug/L				
MRL_CHK	Perfluorohexanesulfonic acid		0.0018	0.00158	ug/L	87	(50-150)		
MS_201908130424	Perfluorohexanesulfonic acid	ND	0.0018	0.00154	ug/L	84	(50-150)		
MSD_201908130424	Perfluorohexanesulfonic acid	ND	0.0018	0.00155	ug/L	85	(50-150)	50	0.78
LCS1	Perfluorohexanoic acid		0.025	0.0273	ug/L	109	(70-130)		
LCS2	Perfluorohexanoic acid		0.025	0.0293	ug/L	117	(70-130)	30	7.1
MBLK	Perfluorohexanoic acid			<0.000667	ug/L				
MRL_CHK	Perfluorohexanoic acid		0.002	0.00236	ug/L	118	(50-150)		
MS_201908130424	Perfluorohexanoic acid	ND	0.002	0.00240	ug/L	113	(50-150)		
MSD_201908130424	Perfluorohexanoic acid	ND	0.002	0.00246	ug/L	116	(50-150)	50	2.5
LCS1	Perfluorononanoic acid		0.025	0.0276	ug/L	110	(70-130)		
LCS2	Perfluorononanoic acid		0.025	0.0289	ug/L	116	(70-130)	30	4.6
MBLK	Perfluorononanoic acid			<0.000667	ug/L				
MRL_CHK	Perfluorononanoic acid		0.002	0.00214	ug/L	107	(50-150)		
MS_201908130424	Perfluorononanoic acid	ND	0.002	0.00230	ug/L	114	(50-150)		
MSD_201908130424	Perfluorononanoic acid	ND	0.002	0.00240	ug/L	119	(50-150)	50	4.8
LCS1	Perfluorooctanesulfonic acid		0.023	0.0246	ug/L	106	(70-130)		
LCS2	Perfluorooctanesulfonic acid		0.023	0.0254	ug/L	110	(70-130)	30	3.2
MBLK	Perfluorooctanesulfonic acid			<0.000617	ug/L				

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.

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Report: 821072
Project: BW
Group: Blue Can FDA product

Alum Beverages

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
MRL_CHK	Perfluorooctanesulfonic acid		0.0019	0.00146	ug/L	79	(50-150)		
MS_201908130424	Perfluorooctanesulfonic acid	ND	0.0019	0.00163	ug/L	87	(50-150)		
MSD_201908130424	Perfluorooctanesulfonic acid	ND	0.0019	0.00164	ug/L	88	(50-150)	50	0.86
LCS1	Perfluorooctanoic acid		0.025	0.0285	ug/L	114	(70-130)		
LCS2	Perfluorooctanoic acid		0.025	0.0308	ug/L	123	(70-130)	30	7.8
MBLK	Perfluorooctanoic acid			<0.000667	ug/L				
MRL_CHK	Perfluorooctanoic acid		0.002	0.00258	ug/L	129	(50-150)		
MS_201908130424	Perfluorooctanoic acid	ND	0.002	0.00269	ug/L	117	(50-150)		
MSD_201908130424	Perfluorooctanoic acid	ND	0.002	0.00257	ug/L	111	(50-150)	50	4.6
LCS1	Perfluorotetradecanoic acid		0.025	0.0249	ug/L	100	(70-130)		
LCS2	Perfluorotetradecanoic acid		0.025	0.0266	ug/L	106	(70-130)	30	6.6
MBLK	Perfluorotetradecanoic acid			<0.000667	ug/L				
MRL_CHK	Perfluorotetradecanoic acid		0.002	0.00194	ug/L	97	(50-150)		
MS_201908130424	Perfluorotetradecanoic acid	ND	0.002	0.00227	ug/L	113	(50-150)		
MSD_201908130424	Perfluorotetradecanoic acid	ND	0.002	0.00182	ug/L	91	(50-150)	50	22
LCS1	Perfluorotridecanoic acid		0.025	0.0240	ug/L	96	(70-130)		
LCS2	Perfluorotridecanoic acid		0.025	0.0269	ug/L	108	(70-130)	30	11
MBLK	Perfluorotridecanoic acid			<0.000667	ug/L				
MRL_CHK	Perfluorotridecanoic acid		0.002	0.00223	ug/L	111	(50-150)		
MS_201908130424	Perfluorotridecanoic acid	ND	0.002	0.00217	ug/L	109	(50-150)		
MSD_201908130424	Perfluorotridecanoic acid	ND	0.002	0.00208	ug/L	104	(50-150)	50	4.2
LCS1	Perfluoroundecanoic acid		0.025	0.0257	ug/L	103	(70-130)		
LCS2	Perfluoroundecanoic acid		0.025	0.0271	ug/L	109	(70-130)	30	5.3
MBLK	Perfluoroundecanoic acid			<0.000667	ug/L				
MRL_CHK	Perfluoroundecanoic acid		0.002	0.00255	ug/L	127	(50-150)		
MS_201908130424	Perfluoroundecanoic acid	ND	0.002	0.00283	ug/L	142	(50-150)		
MSD_201908130424	Perfluoroundecanoic acid	ND	0.002	0.00232	ug/L	116	(50-150)	50	20

Haloacetic Acids by SM 6251B

Analytical Batch: 1192923

Analysis Date: 08/24/2019

CCCH	1,2,3-Trichloropropane (I)	100	98.9	%	99	(80-120)
CCCM	1,2,3-Trichloropropane (I)	100	98.8	%	99	(80-130)
DUP1_201908150852	1,2,3-Trichloropropane (I)		102	%	102	(80-120)
DUP2_201908150471	1,2,3-Trichloropropane (I)		101	%	101	(80-120)
LCS3	1,2,3-Trichloropropane (I)	100	98.0	%	98	(80-120)
MBLK	1,2,3-Trichloropropane (I)		98.8	%	99	(80-120)
MRL_CHK	1,2,3-Trichloropropane (I)	100	100	%	100	(80-120)
MS1_201908150832	1,2,3-Trichloropropane (I)	100	99.2	%	99	(80-120)

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Report: 821072
Project: BW
Group: Blue Can FDA product

Alum Beverages

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
MS2_201908130168	1,2,3-Trichloropropane (I)			96.0	%	96	(80-120)		
CCCH	2,3-Dibromopropionic acid (S)		100	92.9	%	93	(70-130)		
CCCM	2,3-Dibromopropionic acid (S)		100	93.0	%	93	(70-130)		
DUP1_201908150852	2,3-Dibromopropionic acid (S)			104	%	104	(70-130)		
DUP2_201908150471	2,3-Dibromopropionic acid (S)			95.6	%	96	(70-130)		
LCS3	2,3-Dibromopropionic acid (S)		100	98.2	%	98	(70-130)		
MBLK	2,3-Dibromopropionic acid (S)			95.8	%	96	(70-130)		
MRL_CHK	2,3-Dibromopropionic acid (S)		100	95.5	%	95	(70-130)		
MS1_201908150832	2,3-Dibromopropionic acid (S)		100	103	%	103	(70-130)		
MS2_201908130168	2,3-Dibromopropionic acid (S)			94.7	%	95	(70-130)		
CCCH	Bromochloroacetic acid		32	30.8	ug/L	96	(85-115)		
CCCM	Bromochloroacetic acid		20	20.3	ug/L	102	(85-115)		
DUP1_201908150852	Bromochloroacetic acid	ND		ND	ug/L		(0-20)		
DUP2_201908150471	Bromochloroacetic acid	ND		ND	ug/L		(0-20)		
LCS3	Bromochloroacetic acid		8	8.14	ug/L	102	(80-120)		
MBLK	Bromochloroacetic acid			<1	ug/L				
MRL_CHK	Bromochloroacetic acid		1	0.903	ug/L	90	(50-150)		
MS1_201908150832	Bromochloroacetic acid	4.1	20	24.9	ug/L	104	(84-123)		
MS2_201908130168	Bromochloroacetic acid	ND	32	32.2	ug/L	101	(84-123)		
CCCH	Dibromoacetic acid		32	30.9	ug/L	97	(85-115)		
CCCM	Dibromoacetic acid		20	20.4	ug/L	102	(85-115)		
DUP1_201908150852	Dibromoacetic acid	ND		ND	ug/L		(0-20)		
DUP2_201908150471	Dibromoacetic acid	ND		ND	ug/L		(0-20)		
LCS3	Dibromoacetic acid		8	8.08	ug/L	101	(80-120)		
MBLK	Dibromoacetic acid			<1	ug/L				
MRL_CHK	Dibromoacetic acid		1	0.947	ug/L	95	(50-150)		
MS1_201908150832	Dibromoacetic acid	ND	20	21.9	ug/L	106	(84-122)		
MS2_201908130168	Dibromoacetic acid	ND	32	32.2	ug/L	101	(84-122)		
CCCH	Dichloroacetic acid		32	30.9	ug/L	97	(85-115)		
CCCM	Dichloroacetic acid		20	20.4	ug/L	102	(85-115)		
DUP1_201908150852	Dichloroacetic acid	22		21.5	ug/L		(0-20)	20	0.54
DUP2_201908150471	Dichloroacetic acid	ND		ND	ug/L		(0-20)		
LCS3	Dichloroacetic acid		8	8.18	ug/L	102	(80-120)		
MBLK	Dichloroacetic acid			<1	ug/L				
MRL_CHK	Dichloroacetic acid		1	0.705	ug/L	71	(50-150)		
MS1_201908150832	Dichloroacetic acid	17	20	38.0	ug/L	103	(79-123)		
MS2_201908130168	Dichloroacetic acid	ND	32	32.5	ug/L	102	(79-123)		
CCCH	Monobromoacetic acid		32	28.7	ug/L	90	(85-115)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.

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Alum Beverages

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
CCCM	Monobromoacetic acid		20	20.8	ug/L	104	(85-115)		
DUP1_201908150852	Monobromoacetic acid	ND		ND	ug/L		(0-20)		
DUP2_201908150471	Monobromoacetic acid	ND		ND	ug/L		(0-20)		
LCS3	Monobromoacetic acid		8	8.68	ug/L	109	(80-120)		
MBLK	Monobromoacetic acid			<1	ug/L				
MRL_CHK	Monobromoacetic acid		1	1.23	ug/L	123	(50-150)		
MS1_201908150832	Monobromoacetic acid	ND	20	20.6	ug/L	101	(81-122)		
MS2_201908130168	Monobromoacetic acid	ND	32	31.6	ug/L	99	(81-122)		
CCCH	Monochloroacetic acid		32	29.5	ug/L	92	(85-115)		
CCCM	Monochloroacetic acid		20	19.5	ug/L	98	(85-115)		
DUP1_201908150852	Monochloroacetic acid	ND		ND	ug/L		(0-20)		
DUP2_201908150471	Monochloroacetic acid	ND		ND	ug/L		(0-20)		
LCS3	Monochloroacetic acid		8	8.34	ug/L	104	(80-120)		
MBLK	Monochloroacetic acid			<2	ug/L				
MRL_CHK	Monochloroacetic acid		2	1.29	ug/L	65	(50-150)		
MS1_201908150832	Monochloroacetic acid	2.4	20	22.8	ug/L	102	(72-126)		
MS2_201908130168	Monochloroacetic acid	ND	32	31.9	ug/L	99	(72-126)		
CCCH	Trichloroacetic acid		32	31.8	ug/L	99	(85-115)		
CCCM	Trichloroacetic acid		20	20.6	ug/L	103	(85-115)		
DUP1_201908150852	Trichloroacetic acid	9.7		10.2	ug/L		(0-20)	20	4.4
DUP2_201908150471	Trichloroacetic acid	ND		ND	ug/L		(0-20)		
LCS3	Trichloroacetic acid		8	8.33	ug/L	104	(80-120)		
MBLK	Trichloroacetic acid			<1	ug/L				
MRL_CHK	Trichloroacetic acid		1	0.882	ug/L	88	(50-150)		
MS1_201908150832	Trichloroacetic acid	16	20	36.2	ug/L	103	(82-124)		
MS2_201908130168	Trichloroacetic acid	ND	32	32.3	ug/L	101	(82-124)		

Semivolatiles by GCMS by EPA 525.2

Prep Batch: 1191770 Analytical Batch: 1193044

Analysis Date: 08/23/2019

DUP_201908150934	1,3-Dimethyl-2-nitrobenzene (S)			105	%	105	(70-130)
LCS1	1,3-Dimethyl-2-nitrobenzene (S)		5	103	%	103	(70-130)
LCS2	1,3-Dimethyl-2-nitrobenzene (S)		5	102	%	102	(70-130)
MBLK	1,3-Dimethyl-2-nitrobenzene (S)			103	%	103	(70-130)
MRL_CHK	1,3-Dimethyl-2-nitrobenzene (S)		5	99.6	%	100	(70-130)
MS_201909130201	1,3-Dimethyl-2-nitrobenzene (S)		5	101	%	101	(70-130)
DUP_201908150934	Acenaphthene-d10 (I)			100	%	100	(50-150)
LCS1	Acenaphthene-d10 (I)		5	114	%	114	(50-150)
LCS2	Acenaphthene-d10 (I)		5	114	%	114	(50-150)

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

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Alum Beverages

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
MBLK	Acenaphthene-d10 (I)			109	%	109	(50-150)		
MRL_CHK	Acenaphthene-d10 (I)		5	108	%	108	(50-150)		
MS_201909130201	Acenaphthene-d10 (I)		5	60.3	%	60	(50-150)		
DUP_201908150934	Atrazine			ND	ug/L		(0-20)		
LCS1	Atrazine		2	2.06	ug/L	103	(70-130)		
LCS2	Atrazine		2	2.08	ug/L	104	(70-130)	20	0.48
MBLK	Atrazine			<0.05	ug/L				
MRL_CHK	Atrazine		0.05	0.0550	ug/L	110	(50-150)		
MS_201909130201	Atrazine	ND	2	1.94	ug/L	97	(70-130)		
DUP_201908150934	Benzo(a)pyrene			ND	ug/L		(0-20)		
LCS1	Benzo(a)pyrene		2	1.82	ug/L	91	(70-130)		
LCS2	Benzo(a)pyrene		2	1.70	ug/L	85	(70-130)	20	6.8
MBLK	Benzo(a)pyrene			<0.02	ug/L				
MRL_CHK	Benzo(a)pyrene		0.02	0.0160	ug/L	80	(50-150)		
MS_201909130201	Benzo(a)pyrene	ND	2	2.05	ug/L	102	(70-130)		
DUP_201908150934	Chrysene-d12 (I)			101	%	101	(50-150)		
LCS1	Chrysene-d12 (I)		5	113	%	113	(50-150)		
LCS2	Chrysene-d12 (I)		5	111	%	111	(50-150)		
MBLK	Chrysene-d12 (I)			110	%	110	(50-150)		
MRL_CHK	Chrysene-d12 (I)		5	113	%	113	(50-150)		
MS_201909130201	Chrysene-d12 (I)		5	60.5	%	61	(50-150)		
DUP_201908150934	Di-(2-Ethylhexyl)adipate			ND	ug/L		(0-20)		
LCS1	Di-(2-Ethylhexyl)adipate		2	2.25	ug/L	113	(70-130)		
LCS2	Di-(2-Ethylhexyl)adipate		2	2.20	ug/L	110	(70-130)	20	2.3
MBLK	Di-(2-Ethylhexyl)adipate			<0.6	ug/L				
MRL_CHK	Di-(2-Ethylhexyl)adipate		0.3	0.319	ug/L	106	(50-150)		
MS_201909130201	Di-(2-Ethylhexyl)adipate	ND	2	2.05	ug/L	102	(70-130)		
DUP_201908150934	Di(2-Ethylhexyl)phthalate	ND		ND	ug/L		(0-20)		
LCS1	Di(2-Ethylhexyl)phthalate		2	2.11	ug/L	106	(70-130)		
LCS2	Di(2-Ethylhexyl)phthalate		2	2.19	ug/L	110	(70-130)	20	3.7
MBLK	Di(2-Ethylhexyl)phthalate			<0.6	ug/L				
MRL_CHK	Di(2-Ethylhexyl)phthalate		0.6	0.600	ug/L	100	(50-150)		
MS_201909130201	Di(2-Ethylhexyl)phthalate	ND	2	2.00	ug/L	100	(70-130)		
DUP_201908150934	Hexachlorobenzene			ND	ug/L		(0-20)		
LCS1	Hexachlorobenzene		2	1.98	ug/L	99	(70-130)		
LCS2	Hexachlorobenzene		2	2.04	ug/L	102	(70-130)	20	3.0
MBLK	Hexachlorobenzene			<0.05	ug/L				
MRL_CHK	Hexachlorobenzene		0.05	0.0530	ug/L	106	(50-150)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Alum Beverages

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
MS_201909130201	Hexachlorobenzene	ND	2	1.97	ug/L	99	(70-130)		
DUP_201908150934	Hexachlorocyclopentadiene			ND	ug/L		(0-20)		
LCS1	Hexachlorocyclopentadiene		2	2.10	ug/L	105	(70-130)		
LCS2	Hexachlorocyclopentadiene		2	2.01	ug/L	101	(70-130)	20	4.4
MBLK	Hexachlorocyclopentadiene			<0.05	ug/L				
MRL_CHK	Hexachlorocyclopentadiene		0.05	0.0420	ug/L	84	(50-150)		
MS_201909130201	Hexachlorocyclopentadiene	ND	2	1.65	ug/L	82	(70-130)		
DUP_201908150934	Molinate			ND	ug/L		(0-20)		
LCS1	Molinate		2	1.84	ug/L	92	(70-130)		
LCS2	Molinate		2	1.91	ug/L	96	(70-130)	20	3.7
MBLK	Molinate			<0.1	ug/L				
MRL_CHK	Molinate		0.1	0.0880	ug/L	88	(50-150)		
MS_201909130201	Molinate	ND	2	2.11	ug/L	105	(70-130)		
DUP_201908150934	Perylene-d12 (S)			90.9	%	91	(70-130)		
LCS1	Perylene-d12 (S)		5	91.8	%	92	(70-130)		
LCS2	Perylene-d12 (S)		5	86.5	%	86	(70-130)		
MBLK	Perylene-d12 (S)			79.7	%	80	(70-130)		
MRL_CHK	Perylene-d12 (S)		5	81.8	%	82	(70-130)		
MS_201909130201	Perylene-d12 (S)		5	101	%	101	(70-130)		
DUP_201908150934	Phenanthrene-d10 (I)			100	%	101	(50-150)		
LCS1	Phenanthrene-d10 (I)		5	115	%	115	(50-150)		
LCS2	Phenanthrene-d10 (I)		5	122	%	122	(50-150)		
MBLK	Phenanthrene-d10 (I)			112	%	112	(50-150)		
MRL_CHK	Phenanthrene-d10 (I)		5	108	%	108	(50-150)		
MS_201909130201	Phenanthrene-d10 (I)		5	62.9	%	63	(50-150)		
DUP_201908150934	Simazine			ND	ug/L		(0-20)		
LCS1	Simazine		2	2.10	ug/L	105	(70-130)		
LCS2	Simazine		2	2.25	ug/L	112	(70-130)	20	6.9
MBLK	Simazine			<0.05	ug/L				
MRL_CHK	Simazine		0.05	0.0500	ug/L	100	(50-150)		
MS_201909130201	Simazine	ND	2	2.12	ug/L	106	(70-130)		
DUP_201908150934	Thiobencarb	ND		ND	ug/L		(0-20)		
LCS1	Thiobencarb		2	1.99	ug/L	100	(70-130)		
LCS2	Thiobencarb		2	2.04	ug/L	102	(70-130)	20	2.5
MBLK	Thiobencarb			<0.2	ug/L				
MRL_CHK	Thiobencarb		0.1	0.0950	ug/L	95	(50-150)		
MS_201909130201	Thiobencarb	ND	2	2.17	ug/L	108	(70-130)		
DUP_201908150934	Triphenylphosphate (S)			113	%	113	(70-130)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.

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Report: 821072
Project: BW
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Alum Beverages

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
LCS1	Triphenylphosphate (S)		5	106	%	106	(70-130)		
LCS2	Triphenylphosphate (S)		5	101	%	101	(70-130)		
MBLK	Triphenylphosphate (S)			116	%	116	(70-130)		
MRL_CHK	Triphenylphosphate (S)		5	115	%	115	(70-130)		
MS_201909130201	Triphenylphosphate (S)		5	112	%	112	(70-130)		

ICPMS Metals by EPA 200.8

Analytical Batch: 1193143

Analysis Date: 08/26/2019

LCS1	Aluminum Total ICAP/MS		100	107	ug/L	107	(85-115)		
LCS2	Aluminum Total ICAP/MS		100	107	ug/L	107	(85-115)	20	0.0
MBLK	Aluminum Total ICAP/MS			<10	ug/L				
MRL_CHK	Aluminum Total ICAP/MS		20	20.6	ug/L	103	(50-150)		
MS_201908080945	Aluminum Total ICAP/MS	ND	100	114	ug/L	113	(70-130)		
MS2_201907230056	Aluminum Total ICAP/MS	ND	100	107	ug/L	105	(70-130)		
MSD_201908080945	Aluminum Total ICAP/MS	ND	100	110	ug/L	109	(70-130)	20	3.4
MSD2_201907230056	Aluminum Total ICAP/MS	ND	100	106	ug/L	105	(70-130)	20	0.97
LCS1	Antimony Total ICAP/MS		50	46.4	ug/L	93	(85-115)		
LCS2	Antimony Total ICAP/MS		50	47.0	ug/L	94	(85-115)	20	1.1
MBLK	Antimony Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Antimony Total ICAP/MS		1	0.984	ug/L	98	(50-150)		
MS_201908080945	Antimony Total ICAP/MS	ND	50	52.4	ug/L	105	(70-130)		
MS2_201907230056	Antimony Total ICAP/MS	ND	50	50.8	ug/L	102	(70-130)		
MSD_201908080945	Antimony Total ICAP/MS	ND	50	50.7	ug/L	101	(70-130)	20	3.4
MSD2_201907230056	Antimony Total ICAP/MS	ND	50	50.1	ug/L	100	(70-130)	20	1.5
LCS1	Arsenic Total ICAP/MS		50	53.2	ug/L	107	(85-115)		
LCS2	Arsenic Total ICAP/MS		50	53.6	ug/L	107	(85-115)	20	0.56
MBLK	Arsenic Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Arsenic Total ICAP/MS		1	1.09	ug/L	109	(50-150)		
MS_201908080945	Arsenic Total ICAP/MS	ND	50	59.8	ug/L	120	(70-130)		
MS2_201907230056	Arsenic Total ICAP/MS	ND	50	57.7	ug/L	114	(70-130)		
MSD_201908080945	Arsenic Total ICAP/MS	ND	50	57.7	ug/L	115	(70-130)	20	3.6
MSD2_201907230056	Arsenic Total ICAP/MS	ND	50	57.0	ug/L	113	(70-130)	20	1.2
LCS1	Barium Total ICAP/MS		50	49.6	ug/L	99	(85-115)		
LCS2	Barium Total ICAP/MS		50	50.8	ug/L	102	(85-115)	20	2.4
MBLK	Barium Total ICAP/MS			<1	ug/L				
MRL_CHK	Barium Total ICAP/MS		2	1.99	ug/L	100	(50-150)		
MS2_201907230056	Barium Total ICAP/MS	68	50	123	ug/L	109	(70-130)		
MSD2_201907230056	Barium Total ICAP/MS	68	50	122	ug/L	108	(70-130)	20	0.55

Spike recovery is already corrected for native results.

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Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

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Alum Beverages

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
LCS1	Beryllium Total ICAP/MS		25	25.7	ug/L	103	(85-115)		
LCS2	Beryllium Total ICAP/MS		25	24.9	ug/L	100	(85-115)	20	3.2
MBLK	Beryllium Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Beryllium Total ICAP/MS		1	1.00	ug/L	100	(50-150)		
MS_201908080945	Beryllium Total ICAP/MS	ND	25	27.6	ug/L	111	(70-130)		
MS2_201907230056	Beryllium Total ICAP/MS	ND	25	27.2	ug/L	109	(70-130)		
MSD_201908080945	Beryllium Total ICAP/MS	ND	25	26.8	ug/L	107	(70-130)	20	3.1
MSD2_201907230056	Beryllium Total ICAP/MS	ND	25	27.1	ug/L	109	(70-130)	20	0.43
LCS1	Cadmium Total ICAP/MS		25	24.7	ug/L	99	(85-115)		
LCS2	Cadmium Total ICAP/MS		25	25.0	ug/L	100	(85-115)	20	1.2
MBLK	Cadmium Total ICAP/MS			<0.25	ug/L				
MRL_CHK	Cadmium Total ICAP/MS		0.5	0.491	ug/L	98	(50-150)		
MS_201908080945	Cadmium Total ICAP/MS	ND	25	26.9	ug/L	108	(70-130)		
MS2_201907230056	Cadmium Total ICAP/MS	ND	25	26.7	ug/L	107	(70-130)		
MSD_201908080945	Cadmium Total ICAP/MS	ND	25	26.3	ug/L	105	(70-130)	20	2.3
MSD2_201907230056	Cadmium Total ICAP/MS	ND	25	25.9	ug/L	103	(70-130)	20	3.1
LCS1	Chromium Total ICAP/MS		50	52.0	ug/L	104	(85-115)		
LCS2	Chromium Total ICAP/MS		50	52.3	ug/L	105	(85-115)	20	0.57
MBLK	Chromium Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Chromium Total ICAP/MS		1	1.04	ug/L	104	(50-150)		
MS2_201907230056	Chromium Total ICAP/MS	2.8	50	56.0	ug/L	106	(70-130)		
MSD2_201907230056	Chromium Total ICAP/MS	2.8	50	55.1	ug/L	105	(70-130)	20	1.6
LCS1	Copper Total ICAP/MS		50	52.2	ug/L	104	(85-115)		
LCS2	Copper Total ICAP/MS		50	52.6	ug/L	105	(85-115)	20	0.76
MBLK	Copper Total ICAP/MS			<1	ug/L				
MRL_CHK	Copper Total ICAP/MS		2	2.02	ug/L	101	(50-150)		
MS_201908080945	Copper Total ICAP/MS	ND	50	53.6	ug/L	107	(70-130)		
MS2_201907230056	Copper Total ICAP/MS	30	50	81.3	ug/L	102	(70-130)		
MSD_201908080945	Copper Total ICAP/MS	ND	50	52.2	ug/L	104	(70-130)	20	2.8
MSD2_201907230056	Copper Total ICAP/MS	30	50	80.2	ug/L	100	(70-130)	20	1.4
LCS1	Lead Total ICAP/MS		50	50.6	ug/L	101	(85-115)		
LCS2	Lead Total ICAP/MS		50	51.0	ug/L	102	(85-115)	20	0.79
MBLK	Lead Total ICAP/MS			<0.25	ug/L				
MRL_CHK	Lead Total ICAP/MS		0.5	0.532	ug/L	106	(50-150)		
MS_201908080945	Lead Total ICAP/MS	ND	50	52.8	ug/L	106	(70-130)		
MS2_201907230056	Lead Total ICAP/MS	ND	50	51.6	ug/L	103	(70-130)		
MSD_201908080945	Lead Total ICAP/MS	ND	50	51.2	ug/L	102	(70-130)	20	3.1
MSD2_201907230056	Lead Total ICAP/MS	ND	50	50.4	ug/L	101	(70-130)	20	2.4

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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Alum Beverages

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
LCS1	Manganese Total ICAP/MS		100	106	ug/L	106	(85-115)		
LCS2	Manganese Total ICAP/MS		100	106	ug/L	106	(85-115)	20	0.0
MBLK	Manganese Total ICAP/MS			<1	ug/L				
MRL_CHK	Manganese Total ICAP/MS		2	2.09	ug/L	104	(50-150)		
MS_201908080945	Manganese Total ICAP/MS	ND	100	110	ug/L	110	(70-130)		
MS2_201907230056	Manganese Total ICAP/MS	3.0	100	109	ug/L	106	(70-130)		
MSD_201908080945	Manganese Total ICAP/MS	ND	100	107	ug/L	107	(70-130)	20	2.8
MSD2_201907230056	Manganese Total ICAP/MS	3.0	100	109	ug/L	106	(70-130)	20	0.16
LCS1	Nickel Total ICAP/MS		50	52.3	ug/L	105	(85-115)		
LCS2	Nickel Total ICAP/MS		50	52.1	ug/L	104	(85-115)	20	0.38
MBLK	Nickel Total ICAP/MS			<2.5	ug/L				
MRL_CHK	Nickel Total ICAP/MS		5	5.20	ug/L	104	(50-150)		
MS_201908080945	Nickel Total ICAP/MS	ND	50	52.4	ug/L	105	(70-130)		
MS2_201907230056	Nickel Total ICAP/MS	ND	50	50.6	ug/L	100	(70-130)		
MSD_201908080945	Nickel Total ICAP/MS	ND	50	51.2	ug/L	102	(70-130)	20	2.3
MSD2_201907230056	Nickel Total ICAP/MS	ND	50	50.0	ug/L	99	(70-130)	20	1.3
LCS1	Selenium Total ICAP/MS		50	51.1	ug/L	102	(85-115)		
LCS2	Selenium Total ICAP/MS		50	51.4	ug/L	103	(85-115)	20	0.59
MBLK	Selenium Total ICAP/MS			<2.5	ug/L				
MRL_CHK	Selenium Total ICAP/MS		5	5.26	ug/L	105	(50-150)		
MS_201908080945	Selenium Total ICAP/MS	ND	50	61.3	ug/L	123	(70-130)		
MS2_201907230056	Selenium Total ICAP/MS	ND	50	60.5	ug/L	115	(70-130)		
MSD_201908080945	Selenium Total ICAP/MS	ND	50	57.3	ug/L	115	(70-130)	20	6.8
MSD2_201907230056	Selenium Total ICAP/MS	ND	50	60.0	ug/L	114	(70-130)	20	0.78
LCS1	Silver Total ICAP/MS		25	21.5	ug/L	86	(85-115)		
LCS2	Silver Total ICAP/MS		25	22.4	ug/L	90	(85-115)	20	4.1
MRL_CHK	Silver Total ICAP/MS		0.5	0.616	ug/L	123	(50-150)		
MS_201908080945	Silver Total ICAP/MS	ND	25	19.8	ug/L	79	(70-130)		
MSD_201908080945	Silver Total ICAP/MS	ND	25	21.6	ug/L	86	(70-130)	20	8.7
LCS1	Thallium Total ICAP/MS		50	51.3	ug/L	103	(85-115)		
LCS2	Thallium Total ICAP/MS		50	51.6	ug/L	103	(85-115)	20	0.58
MBLK	Thallium Total ICAP/MS			<0.5	ug/L				
MRL_CHK	Thallium Total ICAP/MS		1	1.05	ug/L	105	(50-150)		
MS_201908080945	Thallium Total ICAP/MS	ND	50	54.0	ug/L	108	(70-130)		
MS2_201907230056	Thallium Total ICAP/MS	ND	50	52.4	ug/L	105	(70-130)		
MSD_201908080945	Thallium Total ICAP/MS	ND	50	52.1	ug/L	104	(70-130)	20	3.5
MSD2_201907230056	Thallium Total ICAP/MS	ND	50	51.2	ug/L	102	(70-130)	20	2.3
LCS1	Uranium ICAP/MS		50	51.5	ug/L	103	(85-115)		

Spike recovery is already corrected for native results.

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Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

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Alum Beverages

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
LCS2	Uranium ICAP/MS		50	51.7	ug/L	103	(85-115)	20	0.39
MBLK	Uranium ICAP/MS			<0.5	ug/L				
MRL_CHK	Uranium ICAP/MS		1	1.03	ug/L	103	(50-150)		
MS_201908080945	Uranium ICAP/MS	3.2	50	65.3	ug/L	124	(70-130)		
MS2_201907230056	Uranium ICAP/MS	7.6	50	64.5	ug/L	114	(70-130)		
MSD_201908080945	Uranium ICAP/MS	3.2	50	62.9	ug/L	119	(70-130)	20	3.8
MSD2_201907230056	Uranium ICAP/MS	7.6	50	66.4	ug/L	118	(70-130)	20	3.0
LCS1	Zinc Total ICAP/MS		50	51.9	ug/L	104	(85-115)		
LCS2	Zinc Total ICAP/MS		50	51.5	ug/L	103	(85-115)	20	0.77
MBLK	Zinc Total ICAP/MS			<10	ug/L				
MRL_CHK	Zinc Total ICAP/MS		20	20.9	ug/L	105	(50-150)		
MS_201908080945	Zinc Total ICAP/MS	ND	50	56.4	ug/L	113	(70-130)		
MS2_201907230056	Zinc Total ICAP/MS	ND	50	54.9	ug/L	105	(70-130)		
MSD_201908080945	Zinc Total ICAP/MS	ND	50	54.7	ug/L	109	(70-130)	20	3.1
MSD2_201907230056	Zinc Total ICAP/MS	ND	50	54.5	ug/L	104	(70-130)	20	0.81

Volatile Organics by GCMS by EPA 524.2

Analytical Batch: 1193155

Analysis Date: 08/25/2019

LCS1	1,1,1,2-Tetrachloroethane	5	4.90	ug/L	98	(70-130)		
LCS2	1,1,1,2-Tetrachloroethane	5	4.77	ug/L	95	(70-130)	20	2.7
MBLK	1,1,1,2-Tetrachloroethane		<0.5	ug/L				
MRL_CHK	1,1,1,2-Tetrachloroethane	0.5	0.650	ug/L	130	(50-150)		
LCS1	1,1,1-Trichloroethane	5	4.36	ug/L	87	(70-130)		
LCS2	1,1,1-Trichloroethane	5	4.31	ug/L	86	(70-130)	20	1.1
MBLK	1,1,1-Trichloroethane		<0.5	ug/L				
MRL_CHK	1,1,1-Trichloroethane	0.5	0.410	ug/L	82	(50-150)		
LCS1	1,1,2,2-Tetrachloroethane	5	5.68	ug/L	114	(70-130)		
LCS2	1,1,2,2-Tetrachloroethane	5	5.68	ug/L	114	(70-130)	20	0.0
MBLK	1,1,2,2-Tetrachloroethane		<0.5	ug/L				
MRL_CHK	1,1,2,2-Tetrachloroethane	0.5	0.520	ug/L	104	(50-150)		
LCS1	1,1,2-Trichloroethane	5	4.83	ug/L	97	(70-130)		
LCS2	1,1,2-Trichloroethane	5	4.91	ug/L	98	(70-130)	20	1.6
MBLK	1,1,2-Trichloroethane		<0.5	ug/L				
MRL_CHK	1,1,2-Trichloroethane	0.5	0.480	ug/L	96	(50-150)		
LCS1	1,1-Dichloroethane	5	4.92	ug/L	98	(70-130)		
LCS2	1,1-Dichloroethane	5	4.84	ug/L	97	(70-130)	20	1.6
MBLK	1,1-Dichloroethane		<0.5	ug/L				
MRL_CHK	1,1-Dichloroethane	0.5	0.510	ug/L	102	(50-150)		

Spike recovery is already corrected for native results.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

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Alum Beverages

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
LCS1	1,1-Dichloroethylene		5	5.09	ug/L	102	(70-130)		
LCS2	1,1-Dichloroethylene		5	5.01	ug/L	100	(70-130)	20	1.6
MBLK	1,1-Dichloroethylene			<0.5	ug/L				
MRL_CHK	1,1-Dichloroethylene		0.5	0.550	ug/L	110	(50-150)		
LCS1	1,1-Dichloropropene		5	4.83	ug/L	97	(70-130)		
LCS2	1,1-Dichloropropene		5	4.76	ug/L	95	(70-130)	20	1.5
MBLK	1,1-Dichloropropene			<0.5	ug/L				
MRL_CHK	1,1-Dichloropropene		0.5	0.490	ug/L	98	(50-150)		
LCS1	1,2,3-Trichlorobenzene		5	4.81	ug/L	96	(70-130)		
LCS2	1,2,3-Trichlorobenzene		5	4.71	ug/L	94	(70-130)	20	2.1
MBLK	1,2,3-Trichlorobenzene			<0.5	ug/L				
MRL_CHK	1,2,3-Trichlorobenzene		0.5	0.550	ug/L	110	(50-150)		
LCS1	1,2,3-Trichloropropane		5	5.31	ug/L	106	(70-130)		
LCS2	1,2,3-Trichloropropane		5	5.40	ug/L	108	(70-130)	20	1.7
MBLK	1,2,3-Trichloropropane			<0.5	ug/L				
MRL_CHK	1,2,3-Trichloropropane		0.5	0.530	ug/L	106	(50-150)		
LCS1	1,2,4-Trichlorobenzene		5	4.74	ug/L	95	(70-130)		
LCS2	1,2,4-Trichlorobenzene		5	4.66	ug/L	93	(70-130)	20	1.7
MBLK	1,2,4-Trichlorobenzene			<0.5	ug/L				
MRL_CHK	1,2,4-Trichlorobenzene		0.5	0.520	ug/L	104	(50-150)		
LCS1	1,2,4-Trimethylbenzene		5	5.05	ug/L	101	(70-130)		
LCS2	1,2,4-Trimethylbenzene		5	5.04	ug/L	101	(70-130)	20	0.20
MBLK	1,2,4-Trimethylbenzene			<0.5	ug/L				
MRL_CHK	1,2,4-Trimethylbenzene		0.5	0.500	ug/L	100	(50-150)		
LCS1	1,2-Dichloroethane		5	4.87	ug/L	97	(70-130)		
LCS2	1,2-Dichloroethane		5	4.93	ug/L	99	(70-130)	20	1.2
MBLK	1,2-Dichloroethane			<0.5	ug/L				
MRL_CHK	1,2-Dichloroethane		0.5	0.530	ug/L	106	(50-150)		
LCS1	1,2-Dichloroethane-d4 (S)		5	102	%	102	(70-130)		
LCS2	1,2-Dichloroethane-d4 (S)		5	100	%	100	(70-130)		
MBLK	1,2-Dichloroethane-d4 (S)			101	%	101	(70-130)		
MRL_CHK	1,2-Dichloroethane-d4 (S)		5	100	%	100	(70-130)		
MRLLW	1,2-Dichloroethane-d4 (S)		5	106	%	106	(70-130)		
LCS1	1,2-Dichloropropane		5	4.79	ug/L	96	(70-130)		
LCS2	1,2-Dichloropropane		5	4.79	ug/L	96	(70-130)	20	0.0
MBLK	1,2-Dichloropropane			<0.5	ug/L				
MRL_CHK	1,2-Dichloropropane		0.5	0.490	ug/L	98	(50-150)		
LCS1	1,3,5-Trimethylbenzene		5	5.11	ug/L	102	(70-130)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
LCS2	1,3,5-Trimethylbenzene		5	5.07	ug/L	101	(70-130)	20	0.79
MBLK	1,3,5-Trimethylbenzene			<0.5	ug/L				
MRL_CHK	1,3,5-Trimethylbenzene		0.5	0.510	ug/L	102	(50-150)		
LCS1	1,3-Dichloropropane		5	4.96	ug/L	99	(70-130)		
LCS2	1,3-Dichloropropane		5	4.88	ug/L	98	(70-130)	20	1.6
MBLK	1,3-Dichloropropane			<0.5	ug/L				
MRL_CHK	1,3-Dichloropropane		0.5	0.500	ug/L	100	(50-150)		
LCS1	2,2-Dichloropropane		5	4.00	ug/L	80	(70-130)		
LCS2	2,2-Dichloropropane		5	3.89	ug/L	78	(70-130)	20	2.8
MBLK	2,2-Dichloropropane			<0.5	ug/L				
MRL_CHK	2,2-Dichloropropane		0.5	0.400	ug/L	80	(50-150)		
LCS1	2-Butanone (MEK)		50	51.5	ug/L	103	(70-130)		
LCS2	2-Butanone (MEK)		50	52.0	ug/L	104	(70-130)	20	0.97
MBLK	2-Butanone (MEK)			<5.0	ug/L				
MRL_CHK	2-Butanone (MEK)		5	5.12	ug/L	102	(50-150)		
LCS1	4-Bromofluorobenzene (S)		5	103	%	103	(70-130)		
LCS2	4-Bromofluorobenzene (S)		5	103	%	103	(70-130)		
MBLK	4-Bromofluorobenzene (S)			109	%	109	(70-130)		
MRL_CHK	4-Bromofluorobenzene (S)		5	105	%	105	(70-130)		
MRL_LW	4-Bromofluorobenzene (S)		5	105	%	105	(70-130)		
LCS1	4-Methyl-2-Pentanone (MIBK)		50	51.8	ug/L	104	(70-130)		
LCS2	4-Methyl-2-Pentanone (MIBK)		50	51.0	ug/L	102	(70-130)	20	1.6
MBLK	4-Methyl-2-Pentanone (MIBK)			<5.0	ug/L				
MRL_CHK	4-Methyl-2-Pentanone (MIBK)		5	4.30	ug/L	86	(50-150)		
LCS1	Benzene		5	4.99	ug/L	100	(70-130)		
LCS2	Benzene		5	4.92	ug/L	98	(70-130)	20	1.4
MBLK	Benzene			<0.5	ug/L				
MRL_CHK	Benzene		0.5	0.510	ug/L	102	(50-150)		
LCS1	Bromobenzene		5	5.16	ug/L	103	(70-130)		
LCS2	Bromobenzene		5	5.13	ug/L	103	(70-130)	20	0.58
MBLK	Bromobenzene			<0.5	ug/L				
MRL_CHK	Bromobenzene		0.5	0.540	ug/L	108	(50-150)		
LCS1	Bromochloromethane		5	4.95	ug/L	99	(70-130)		
LCS2	Bromochloromethane		5	4.95	ug/L	99	(70-130)	20	0.0
MBLK	Bromochloromethane			<0.5	ug/L				
MRL_CHK	Bromochloromethane		0.5	0.500	ug/L	100	(50-150)		
LCS1	Bromodichloromethane		5	4.83	ug/L	97	(70-130)		
LCS2	Bromodichloromethane		5	4.73	ug/L	95	(70-130)	20	2.1

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
MBLK	Bromodichloromethane			<0.5	ug/L				
MRL_CHK	Bromodichloromethane		0.5	0.640	ug/L	128	(50-150)		
LCS1	Bromoethane		5	5.02	ug/L	100	(70-130)		
LCS2	Bromoethane		5	4.98	ug/L	100	(70-130)	20	0.80
MBLK	Bromoethane			<0.5	ug/L				
MRL_CHK	Bromoethane		0.5	0.460	ug/L	92	(50-150)		
LCS1	Bromoform		5	5.54	ug/L	111	(70-130)		
LCS2	Bromoform		5	5.46	ug/L	109	(70-130)	20	1.5
MBLK	Bromoform			<0.5	ug/L				
MRL_CHK	Bromoform		0.5	0.820	ug/L	164	(50-150)		
LCS1	Bromomethane (Methyl Bromide)		5	5.56	ug/L	111	(70-130)		
LCS2	Bromomethane (Methyl Bromide)		5	5.41	ug/L	108	(70-130)	20	2.7
MBLK	Bromomethane (Methyl Bromide)			<0.5	ug/L				
MRL_CHK	Bromomethane (Methyl Bromide)		0.5	0.490	ug/L	98	(50-150)		
LCS1	Carbon Tetrachloride		5	5.12	ug/L	102	(70-130)		
LCS2	Carbon Tetrachloride		5	5.01	ug/L	100	(70-130)	20	2.2
MBLK	Carbon Tetrachloride			<0.5	ug/L				
MRL_CHK	Carbon Tetrachloride		0.5	0.470	ug/L	94	(50-150)		
LCS1	Chlorobenzene		5	4.86	ug/L	97	(70-130)		
LCS2	Chlorobenzene		5	4.83	ug/L	97	(70-130)	20	0.62
MBLK	Chlorobenzene			<0.5	ug/L				
MRL_CHK	Chlorobenzene		0.5	0.490	ug/L	98	(50-150)		
LCS1	Chlorodibromomethane		5	5.08	ug/L	102	(70-130)		
LCS2	Chlorodibromomethane		5	5.13	ug/L	103	(70-130)	20	0.98
MBLK	Chlorodibromomethane			<0.5	ug/L				
MRL_CHK	Chlorodibromomethane		0.5	0.690	ug/L	138	(50-150)		
LCS1	Chloroethane		5	4.87	ug/L	97	(70-130)		
LCS2	Chloroethane		5	4.79	ug/L	96	(70-130)	20	1.7
MBLK	Chloroethane			<0.5	ug/L				
MRL_CHK	Chloroethane		0.5	0.530	ug/L	106	(50-150)		
LCS1	Chloroform (Trichloromethane)		5	4.90	ug/L	98	(70-130)		
LCS2	Chloroform (Trichloromethane)		5	4.83	ug/L	97	(70-130)	20	1.4
MBLK	Chloroform (Trichloromethane)			<0.5	ug/L				
MRL_CHK	Chloroform (Trichloromethane)		0.5	0.510	ug/L	102	(50-150)		
LCS1	Chloromethane(Methyl Chloride)		5	4.93	ug/L	99	(70-130)		
LCS2	Chloromethane(Methyl Chloride)		5	4.89	ug/L	98	(70-130)	20	0.82
MBLK	Chloromethane(Methyl Chloride)			<0.5	ug/L				
MRL_CHK	Chloromethane(Methyl Chloride)		0.5	0.550	ug/L	110	(50-150)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
LCS1	cis-1,2-Dichloroethylene		5	4.95	ug/L	99	(70-130)		
LCS2	cis-1,2-Dichloroethylene		5	4.77	ug/L	95	(70-130)	20	3.7
MBLK	cis-1,2-Dichloroethylene			<0.5	ug/L				
MRL_CHK	cis-1,2-Dichloroethylene		0.5	0.540	ug/L	108	(50-150)		
LCS1	cis-1,3-Dichloropropene		5	4.41	ug/L	88	(70-130)		
LCS2	cis-1,3-Dichloropropene		5	4.43	ug/L	89	(70-130)	20	0.45
MBLK	cis-1,3-Dichloropropene			<0.5	ug/L				
MRL_CHK	cis-1,3-Dichloropropene		0.5	0.630	ug/L	126	(50-150)		
LCS1	Dibromomethane		5	4.90	ug/L	98	(70-130)		
LCS2	Dibromomethane		5	4.87	ug/L	97	(70-130)	20	0.61
MBLK	Dibromomethane			<0.5	ug/L				
MRL_CHK	Dibromomethane		0.5	0.490	ug/L	98	(50-150)		
LCS1	Dichlorodifluoromethane		5	4.63	ug/L	93	(70-130)		
LCS2	Dichlorodifluoromethane		5	4.50	ug/L	90	(70-130)	20	2.9
MBLK	Dichlorodifluoromethane			<0.5	ug/L				
MRL_CHK	Dichlorodifluoromethane		0.5	0.490	ug/L	98	(50-150)		
LCS1	Dichloromethane		5	5.06	ug/L	101	(70-130)		
LCS2	Dichloromethane		5	4.96	ug/L	99	(70-130)	20	2.0
MBLK	Dichloromethane			<0.5	ug/L				
MRL_CHK	Dichloromethane		0.5	0.580	ug/L	116	(50-150)		
LCS1	Di-isopropyl ether		5	4.83	ug/L	97	(70-130)		
LCS2	Di-isopropyl ether		5	4.83	ug/L	97	(70-130)	20	0.0
MBLK	Di-isopropyl ether			<3.0	ug/L				
MRL_CHK	Di-isopropyl ether		0.5	0.470	ug/L	94	(50-150)		
LCS1	Ethyl benzene		5	4.93	ug/L	99	(70-130)		
LCS2	Ethyl benzene		5	4.86	ug/L	97	(70-130)	20	1.4
MBLK	Ethyl benzene			<0.5	ug/L				
MRL_CHK	Ethyl benzene		0.5	0.480	ug/L	96	(50-150)		
LCS1	Hexachlorobutadiene		5	4.99	ug/L	100	(70-130)		
LCS2	Hexachlorobutadiene		5	4.91	ug/L	98	(70-130)	20	1.6
MBLK	Hexachlorobutadiene			<0.5	ug/L				
MRL_CHK	Hexachlorobutadiene		0.5	0.510	ug/L	102	(50-150)		
LCS1	Isopropylbenzene		5	5.13	ug/L	103	(70-130)		
LCS2	Isopropylbenzene		5	5.02	ug/L	100	(70-130)	20	2.2
MBLK	Isopropylbenzene			<0.5	ug/L				
MRL_CHK	Isopropylbenzene		0.5	0.510	ug/L	102	(50-150)		
LCS1	m,p-Xylenes		10	9.82	ug/L	98	(70-130)		
LCS2	m,p-Xylenes		10	9.70	ug/L	97	(70-130)	20	1.2

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
MBLK	m,p-Xylenes			<0.5	ug/L				
MRL_CHK	m,p-Xylenes		1	0.990	ug/L	99	(50-150)		
MRLLW	m,p-Xylenes		0.5	0.480	ug/L	96	(50-150)		
LCS1	m-Dichlorobenzene (1,3-DCB)		5	5.25	ug/L	105	(70-130)		
LCS2	m-Dichlorobenzene (1,3-DCB)		5	5.23	ug/L	105	(70-130)	20	0.38
MBLK	m-Dichlorobenzene (1,3-DCB)			<0.5	ug/L				
MRL_CHK	m-Dichlorobenzene (1,3-DCB)		0.5	0.540	ug/L	108	(50-150)		
LCS1	Methyl Tert-butyl ether (MTBE)		5	4.94	ug/L	99	(70-130)		
LCS2	Methyl Tert-butyl ether (MTBE)		5	4.92	ug/L	98	(70-130)	20	0.41
MBLK	Methyl Tert-butyl ether (MTBE)			<0.5	ug/L				
MRL_CHK	Methyl Tert-butyl ether (MTBE)		0.5	0.510	ug/L	102	(50-150)		
LCS1	Naphthalene		5	5.02	ug/L	100	(70-130)		
LCS2	Naphthalene		5	4.95	ug/L	99	(70-130)	20	1.4
MBLK	Naphthalene			<0.5	ug/L				
MRL_CHK	Naphthalene		0.5	0.500	ug/L	100	(50-150)		
LCS1	n-Butylbenzene		5	4.93	ug/L	99	(70-130)		
LCS2	n-Butylbenzene		5	4.83	ug/L	97	(70-130)	20	2.0
MBLK	n-Butylbenzene			<0.5	ug/L				
MRL_CHK	n-Butylbenzene		0.5	0.470	ug/L	94	(50-150)		
LCS1	n-Propylbenzene		5	5.14	ug/L	103	(70-130)		
LCS2	n-Propylbenzene		5	5.09	ug/L	102	(70-130)	20	0.98
MBLK	n-Propylbenzene			<0.5	ug/L				
MRL_CHK	n-Propylbenzene		0.5	0.510	ug/L	102	(50-150)		
LCS1	o-Chlorotoluene		5	5.21	ug/L	104	(70-130)		
LCS2	o-Chlorotoluene		5	5.18	ug/L	104	(70-130)	20	0.58
MBLK	o-Chlorotoluene			<0.5	ug/L				
MRL_CHK	o-Chlorotoluene		0.5	0.540	ug/L	108	(50-150)		
LCS1	o-Dichlorobenzene (1,2-DCB)		5	4.97	ug/L	99	(70-130)		
LCS2	o-Dichlorobenzene (1,2-DCB)		5	4.88	ug/L	98	(70-130)	20	1.8
MBLK	o-Dichlorobenzene (1,2-DCB)			<0.5	ug/L				
MRL_CHK	o-Dichlorobenzene (1,2-DCB)		0.5	0.520	ug/L	104	(50-150)		
LCS1	o-Xylene		5	4.93	ug/L	99	(70-130)		
LCS2	o-Xylene		5	4.91	ug/L	98	(70-130)	20	0.41
MBLK	o-Xylene			<0.5	ug/L				
MRL_CHK	o-Xylene		0.5	0.480	ug/L	96	(50-150)		
LCS1	p-Chlorotoluene		5	5.09	ug/L	102	(70-130)		
LCS2	p-Chlorotoluene		5	5.15	ug/L	103	(70-130)	20	1.2
MBLK	p-Chlorotoluene			<0.5	ug/L				

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
MRL_CHK	p-Chlorotoluene		0.5	0.530	ug/L	106	(50-150)		
LCS1	p-Dichlorobenzene (1,4-DCB)		5	5.24	ug/L	105	(70-130)		
LCS2	p-Dichlorobenzene (1,4-DCB)		5	5.22	ug/L	104	(70-130)	20	0.38
MBLK	p-Dichlorobenzene (1,4-DCB)			<0.5	ug/L				
MRL_CHK	p-Dichlorobenzene (1,4-DCB)		0.5	0.550	ug/L	110	(50-150)		
LCS1	p-Isopropyltoluene		5	5.14	ug/L	103	(70-130)		
LCS2	p-Isopropyltoluene		5	5.07	ug/L	101	(70-130)	20	1.4
MBLK	p-Isopropyltoluene			<0.5	ug/L				
MRL_CHK	p-Isopropyltoluene		0.5	0.490	ug/L	98	(50-150)		
LCS1	sec-Butylbenzene		5	5.45	ug/L	109	(70-130)		
LCS2	sec-Butylbenzene		5	5.45	ug/L	109	(70-130)	20	0.0
MBLK	sec-Butylbenzene			<0.5	ug/L				
MRL_CHK	sec-Butylbenzene		0.5	0.510	ug/L	102	(50-150)		
LCS1	Styrene		5	4.97	ug/L	99	(70-130)		
LCS2	Styrene		5	4.86	ug/L	97	(70-130)	20	2.2
MBLK	Styrene			<0.5	ug/L				
MRL_CHK	Styrene		0.5	0.470	ug/L	94	(50-150)		
LCS1	tert-amyl Methyl Ether		5	4.46	ug/L	89	(70-130)		
LCS2	tert-amyl Methyl Ether		5	4.51	ug/L	90	(70-130)	20	1.1
MBLK	tert-amyl Methyl Ether			<3.0	ug/L				
MRL_CHK	tert-amyl Methyl Ether		0.5	0.400	ug/L	80	(50-150)		
LCS1	tert-Butyl Ethyl Ether		5	4.79	ug/L	96	(70-130)		
LCS2	tert-Butyl Ethyl Ether		5	4.73	ug/L	95	(70-130)	20	1.3
MBLK	tert-Butyl Ethyl Ether			<3.0	ug/L				
MRL_CHK	tert-Butyl Ethyl Ether		0.5	0.450	ug/L	90	(50-150)		
LCS1	tert-Butylbenzene		5	5.06	ug/L	101	(70-130)		
LCS2	tert-Butylbenzene		5	5.05	ug/L	101	(70-130)	20	0.20
MBLK	tert-Butylbenzene			<0.5	ug/L				
MRL_CHK	tert-Butylbenzene		0.5	0.510	ug/L	102	(50-150)		
LCS1	Tetrachloroethylene (PCE)		5	5.04	ug/L	101	(70-130)		
LCS2	Tetrachloroethylene (PCE)		5	4.89	ug/L	98	(70-130)	20	3.0
MBLK	Tetrachloroethylene (PCE)			<0.5	ug/L				
MRL_CHK	Tetrachloroethylene (PCE)		0.5	0.510	ug/L	102	(50-150)		
LCS1	Toluene		5	4.96	ug/L	99	(70-130)		
LCS2	Toluene		5	4.91	ug/L	98	(70-130)	20	1.0
MBLK	Toluene			<0.5	ug/L				
MRL_CHK	Toluene		0.5	0.510	ug/L	102	(50-150)		
LCS1	Toluene-d8 (S)		5	101	%	101	(70-130)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
LCS2	Toluene-d8 (S)		5	101	%	101	(70-130)		
MBLK	Toluene-d8 (S)			99.6	%	100	(70-130)		
MRL_CHK	Toluene-d8 (S)		5	99.8	%	100	(70-130)		
MRLLW	Toluene-d8 (S)		5	98.4	%	98	(70-130)		
LCS1	trans-1,2-Dichloroethylene		5	5.42	ug/L	108	(70-130)		
LCS2	trans-1,2-Dichloroethylene		5	5.19	ug/L	104	(70-130)	20	4.3
MBLK	trans-1,2-Dichloroethylene			<0.5	ug/L				
MRL_CHK	trans-1,2-Dichloroethylene		0.5	0.560	ug/L	112	(50-150)		
LCS1	trans-1,3-Dichloropropene		5	4.34	ug/L	87	(70-130)		
LCS2	trans-1,3-Dichloropropene		5	4.20	ug/L	84	(70-130)	20	3.3
MBLK	trans-1,3-Dichloropropene			<0.5	ug/L				
MRL_CHK	trans-1,3-Dichloropropene		0.5	0.650	ug/L	130	(50-150)		
LCS1	Trichloroethylene (TCE)		5	4.82	ug/L	96	(70-130)		
LCS2	Trichloroethylene (TCE)		5	4.90	ug/L	98	(70-130)	20	1.6
MBLK	Trichloroethylene (TCE)			<0.5	ug/L				
MRL_CHK	Trichloroethylene (TCE)		0.5	0.520	ug/L	104	(50-150)		
LCS1	Trichlorofluoromethane		5	4.65	ug/L	93	(70-130)		
LCS2	Trichlorofluoromethane		5	4.55	ug/L	91	(70-130)	20	2.2
MBLK	Trichlorofluoromethane			<0.5	ug/L				
MRL_CHK	Trichlorofluoromethane		0.5	0.510	ug/L	102	(50-150)		
LCS1	Trichlorotrifluoroethane(Freon)		5	5.31	ug/L	106	(70-130)		
LCS2	Trichlorotrifluoroethane(Freon)		5	5.28	ug/L	106	(70-130)	20	0.57
MBLK	Trichlorotrifluoroethane(Freon)			<0.5	ug/L				
MRL_CHK	Trichlorotrifluoroethane(Freon)		0.5	0.570	ug/L	114	(50-150)		
LCS1	Vinyl chloride (VC)		5	5.09	ug/L	102	(70-130)		
LCS2	Vinyl chloride (VC)		5	4.94	ug/L	99	(70-130)	20	3.0
MBLK	Vinyl chloride (VC)			<0.3	ug/L				
MRL_CHK	Vinyl chloride (VC)		0.5	0.490	ug/L	98	(50-150)		
MRLLW	Vinyl chloride (VC)		0.25	0.290	ug/L	116	(50-150)		

2,3,7,8-TCDD_Dioxin by EPA 1613B

Prep Batch: 1192388 Analytical Batch: 1193320

Analysis Date: 08/26/2019

DUP_201908200515	2,3,7,8-TCDD	ND		ND	pg/L		(0-20)		
LCS1	2,3,7,8-TCDD		200	181	pg/L	90	(73-146)		
LCS2	2,3,7,8-TCDD		200	179	pg/L	89	(73-146)	20	1.1
MBLK	2,3,7,8-TCDD			<1.67	pg/L				
MRL_CHK	2,3,7,8-TCDD		5	3.92	pg/L	78	(50-150)		
MS_201908200233	2,3,7,8-TCDD	ND	200	186	pg/L	93	(73-146)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.

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Report: 821072
Project: BW
Group: Blue Can FDA product

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
DUP_201908200515	C12-2,3,7,8-TCDD (S)		2000	71.8	%	72	(31-137)		
LCS1	C12-2,3,7,8-TCDD (S)		2000	70.7	%	71	(25-141)		
LCS2	C12-2,3,7,8-TCDD (S)		2000	79.3	%	79	(25-141)		
MBLK	C12-2,3,7,8-TCDD (S)			68.0	%	68	(31-137)		
MRL_CHK	C12-2,3,7,8-TCDD (S)		2000	78.7	%	79	(25-141)		
MS_201908200233	C12-2,3,7,8-TCDD (S)		2000	62.6	%	63	(25-141)		

Bromate by UV/VIS 317 by EPA 317

Analytical Batch: 1193775

Analysis Date: 08/28/2019

LCS1	Bromate by UV/VIS		10	10.5	ug/L	105	(90-110)		
LCS2	Bromate by UV/VIS		10	10.2	ug/L	102	(90-110)	20	2.9
MBLK	Bromate by UV/VIS			<0.5	ug/L				
MRL_CHK	Bromate by UV/VIS		1	0.863	ug/L	86	(75-125)		
MS_201908220660	Bromate by UV/VIS	ND	5	5.11	ug/L	102	(75-125)		
MS_201908220663	Bromate by UV/VIS	ND	5	5.17	ug/L	103	(75-125)		
MSD_201908220660	Bromate by UV/VIS	ND	5	5.18	ug/L	104	(75-125)	15	1.4
MSD_201908220663	Bromate by UV/VIS	ND	5	5.19	ug/L	104	(75-125)	15	0.32

Mercury Total by EPA 245.1

Analytical Batch: 1194073

Analysis Date: 08/28/2019

LCS1	Mercury		1.5	1.58	ug/L	105	(90-110)		
LCS2	Mercury		1.5	1.60	ug/L	107	(90-110)	20	1.3
MBLK	Mercury			<0.1	ug/L				
MRL_CHK	Mercury		0.2	0.190	ug/L	95	(50-150)		
MS_201908120533	Mercury	ND	1.5	1.67	ug/L	111	(70-130)		
MS2_201908150471	Mercury	ND	1.5	1.60	ug/L	107	(70-130)		
MSD_201908120533	Mercury	ND	1.5	1.62	ug/L	108	(70-130)	20	2.9
MSD2_201908150471	Mercury	ND	1.5	1.56	ug/L	104	(70-130)	20	2.1

Volatile Organics by GCMS by EPA 524.2

Analytical Batch: 1194259

Analysis Date: 08/28/2019

LCS1	1,1,1,2-Tetrachloroethane		5	5.63	ug/L	113	(70-130)		
LCS2	1,1,1,2-Tetrachloroethane		5	5.31	ug/L	106	(70-130)	20	5.8
MBLK	1,1,1,2-Tetrachloroethane			<0.5	ug/L				
MRL_CHK	1,1,1,2-Tetrachloroethane		0.5	0.470	ug/L	94	(50-150)		
LCS1	1,1,1-Trichloroethane		5	5.13	ug/L	103	(70-130)		
LCS2	1,1,1-Trichloroethane		5	5.16	ug/L	103	(70-130)	20	0.58
MBLK	1,1,1-Trichloroethane			<0.5	ug/L				
MRL_CHK	1,1,1-Trichloroethane		0.5	0.530	ug/L	106	(50-150)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

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Alum Beverages

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
LCS1	1,1,2,2-Tetrachloroethane		5	5.38	ug/L	108	(70-130)		
LCS2	1,1,2,2-Tetrachloroethane		5	5.26	ug/L	105	(70-130)	20	2.3
MBLK	1,1,2,2-Tetrachloroethane			<0.5	ug/L				
MRL_CHK	1,1,2,2-Tetrachloroethane		0.5	0.510	ug/L	102	(50-150)		
LCS1	1,1,2-Trichloroethane		5	4.66	ug/L	93	(70-130)		
LCS2	1,1,2-Trichloroethane		5	4.62	ug/L	92	(70-130)	20	0.86
MBLK	1,1,2-Trichloroethane			<0.5	ug/L				
MRL_CHK	1,1,2-Trichloroethane		0.5	0.430	ug/L	86	(50-150)		
LCS1	1,1-Dichloroethane		5	5.20	ug/L	104	(70-130)		
LCS2	1,1-Dichloroethane		5	5.26	ug/L	105	(70-130)	20	1.1
MBLK	1,1-Dichloroethane			<0.5	ug/L				
MRL_CHK	1,1-Dichloroethane		0.5	0.540	ug/L	108	(50-150)		
LCS1	1,1-Dichloroethylene		5	5.45	ug/L	109	(70-130)		
LCS2	1,1-Dichloroethylene		5	5.43	ug/L	109	(70-130)	20	0.37
MBLK	1,1-Dichloroethylene			<0.5	ug/L				
MRL_CHK	1,1-Dichloroethylene		0.5	0.500	ug/L	100	(50-150)		
LCS1	1,1-Dichloropropene		5	5.10	ug/L	102	(70-130)		
LCS2	1,1-Dichloropropene		5	5.03	ug/L	101	(70-130)	20	1.4
MBLK	1,1-Dichloropropene			<0.5	ug/L				
MRL_CHK	1,1-Dichloropropene		0.5	0.500	ug/L	100	(50-150)		
LCS1	1,2,3-Trichlorobenzene		5	5.10	ug/L	102	(70-130)		
LCS2	1,2,3-Trichlorobenzene		5	4.90	ug/L	98	(70-130)	20	4.0
MBLK	1,2,3-Trichlorobenzene			<0.5	ug/L				
MRL_CHK	1,2,3-Trichlorobenzene		0.5	0.670	ug/L	134	(50-150)		
LCS1	1,2,3-Trichloropropane		5	5.19	ug/L	104	(70-130)		
LCS2	1,2,3-Trichloropropane		5	4.98	ug/L	100	(70-130)	20	4.1
MBLK	1,2,3-Trichloropropane			<0.5	ug/L				
MRL_CHK	1,2,3-Trichloropropane		0.5	0.510	ug/L	102	(50-150)		
LCS1	1,2,4-Trichlorobenzene		5	5.14	ug/L	103	(70-130)		
LCS2	1,2,4-Trichlorobenzene		5	5.09	ug/L	102	(70-130)	20	0.98
MBLK	1,2,4-Trichlorobenzene			<0.5	ug/L				
MRL_CHK	1,2,4-Trichlorobenzene		0.5	0.610	ug/L	122	(50-150)		
LCS1	1,2,4-Trimethylbenzene		5	4.98	ug/L	100	(70-130)		
LCS2	1,2,4-Trimethylbenzene		5	4.82	ug/L	96	(70-130)	20	3.3
MBLK	1,2,4-Trimethylbenzene			<0.5	ug/L				
MRL_CHK	1,2,4-Trimethylbenzene		0.5	0.490	ug/L	98	(50-150)		
LCS1	1,2-Dichloroethane		5	5.25	ug/L	105	(70-130)		
LCS2	1,2-Dichloroethane		5	5.41	ug/L	108	(70-130)	20	3.0

Spike recovery is already corrected for native results.

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Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
MBLK	1,2-Dichloroethane			<0.5	ug/L				
MRL_CHK	1,2-Dichloroethane		0.5	0.500	ug/L	100	(50-150)		
LCS1	1,2-Dichloroethane-d4 (S)		5	98.6	%	99	(70-130)		
LCS2	1,2-Dichloroethane-d4 (S)		5	102	%	102	(70-130)		
MBLK	1,2-Dichloroethane-d4 (S)			102	%	102	(70-130)		
MRL_CHK	1,2-Dichloroethane-d4 (S)		5	100	%	100	(70-130)		
MRLLW	1,2-Dichloroethane-d4 (S)		5	101	%	101	(70-130)		
LCS1	1,2-Dichloropropane		5	5.09	ug/L	102	(70-130)		
LCS2	1,2-Dichloropropane		5	4.96	ug/L	99	(70-130)	20	2.6
MBLK	1,2-Dichloropropane			<0.5	ug/L				
MRL_CHK	1,2-Dichloropropane		0.5	0.530	ug/L	106	(50-150)		
LCS1	1,3,5-Trimethylbenzene		5	5.03	ug/L	101	(70-130)		
LCS2	1,3,5-Trimethylbenzene		5	4.81	ug/L	96	(70-130)	20	4.5
MBLK	1,3,5-Trimethylbenzene			<0.5	ug/L				
MRL_CHK	1,3,5-Trimethylbenzene		0.5	0.480	ug/L	96	(50-150)		
LCS1	1,3-Dichloropropane		5	4.81	ug/L	96	(70-130)		
LCS2	1,3-Dichloropropane		5	4.77	ug/L	95	(70-130)	20	0.84
MBLK	1,3-Dichloropropane			<0.5	ug/L				
MRL_CHK	1,3-Dichloropropane		0.5	0.480	ug/L	96	(50-150)		
LCS1	2,2-Dichloropropane		5	5.05	ug/L	101	(70-130)		
LCS2	2,2-Dichloropropane		5	5.09	ug/L	102	(70-130)	20	0.79
MBLK	2,2-Dichloropropane			<0.5	ug/L				
MRL_CHK	2,2-Dichloropropane		0.5	0.520	ug/L	104	(50-150)		
LCS1	2-Butanone (MEK)		50	49.7	ug/L	99	(70-130)		
LCS2	2-Butanone (MEK)		50	51.1	ug/L	102	(70-130)	20	2.8
MBLK	2-Butanone (MEK)			<5.0	ug/L				
MRL_CHK	2-Butanone (MEK)		5	5.28	ug/L	106	(50-150)		
LCS1	4-Bromofluorobenzene (S)		5	101	%	101	(70-130)		
LCS2	4-Bromofluorobenzene (S)		5	101	%	101	(70-130)		
MBLK	4-Bromofluorobenzene (S)			102	%	102	(70-130)		
MRL_CHK	4-Bromofluorobenzene (S)		5	104	%	104	(70-130)		
MRLLW	4-Bromofluorobenzene (S)		5	100	%	100	(70-130)		
LCS1	4-Methyl-2-Pentanone (MIBK)		50	50.1	ug/L	100	(70-130)		
LCS2	4-Methyl-2-Pentanone (MIBK)		50	49.7	ug/L	99	(70-130)	20	0.80
MBLK	4-Methyl-2-Pentanone (MIBK)			<5.0	ug/L				
MRL_CHK	4-Methyl-2-Pentanone (MIBK)		5	4.49	ug/L	90	(50-150)		
LCS1	Benzene		5	5.22	ug/L	104	(70-130)		
LCS2	Benzene		5	5.27	ug/L	105	(70-130)	20	0.95

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

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Alum Beverages

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
MBLK	Benzene			<0.5	ug/L				
MRL_CHK	Benzene		0.5	0.520	ug/L	104	(50-150)		
LCS1	Bromobenzene		5	5.09	ug/L	102	(70-130)		
LCS2	Bromobenzene		5	4.83	ug/L	97	(70-130)	20	5.2
MBLK	Bromobenzene			<0.5	ug/L				
MRL_CHK	Bromobenzene		0.5	0.510	ug/L	102	(50-150)		
LCS1	Bromochloromethane		5	5.20	ug/L	104	(70-130)		
LCS2	Bromochloromethane		5	5.25	ug/L	105	(70-130)	20	0.96
MBLK	Bromochloromethane			<0.5	ug/L				
MRL_CHK	Bromochloromethane		0.5	0.580	ug/L	116	(50-150)		
LCS1	Bromodichloromethane		5	5.23	ug/L	105	(70-130)		
LCS2	Bromodichloromethane		5	5.11	ug/L	102	(70-130)	20	2.3
MBLK	Bromodichloromethane			<0.5	ug/L				
MRL_CHK	Bromodichloromethane		0.5	0.450	ug/L	90	(50-150)		
LCS1	Bromoethane		5	6.00	ug/L	120	(70-130)		
LCS2	Bromoethane		5	5.93	ug/L	119	(70-130)	20	1.2
MBLK	Bromoethane			<0.5	ug/L				
MRL_CHK	Bromoethane		0.5	0.560	ug/L	112	(50-150)		
LCS1	Bromoform		5	6.00	ug/L	120	(70-130)		
LCS2	Bromoform		5	5.86	ug/L	117	(70-130)	20	2.4
MBLK	Bromoform			<0.5	ug/L				
MRL_CHK	Bromoform		0.5	0.670	ug/L	134	(50-150)		
LCS1	Bromomethane (Methyl Bromide)		5	5.57	ug/L	111	(70-130)		
LCS2	Bromomethane (Methyl Bromide)		5	5.92	ug/L	118	(70-130)	20	6.1
MBLK	Bromomethane (Methyl Bromide)			<0.5	ug/L				
MRL_CHK	Bromomethane (Methyl Bromide)		0.5	0.560	ug/L	112	(50-150)		
LCS1	Carbon Tetrachloride		5	5.54	ug/L	111	(70-130)		
LCS2	Carbon Tetrachloride		5	5.37	ug/L	107	(70-130)	20	3.1
MBLK	Carbon Tetrachloride			<0.5	ug/L				
MRL_CHK	Carbon Tetrachloride		0.5	0.460	ug/L	92	(50-150)		
LCS1	Chlorobenzene		5	4.66	ug/L	93	(70-130)		
LCS2	Chlorobenzene		5	4.75	ug/L	95	(70-130)	20	1.9
MBLK	Chlorobenzene			<0.5	ug/L				
MRL_CHK	Chlorobenzene		0.5	0.450	ug/L	90	(50-150)		
LCS1	Chlorodibromomethane		5	5.93	ug/L	119	(70-130)		
LCS2	Chlorodibromomethane		5	6.14	ug/L	123	(70-130)	20	3.5
MBLK	Chlorodibromomethane			<0.5	ug/L				
MRL_CHK	Chlorodibromomethane		0.5	0.550	ug/L	110	(50-150)		

Spike recovery is already corrected for native results.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

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Alum Beverages

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
LCS1	Chloroethane		5	5.60	ug/L	112	(70-130)		
LCS2	Chloroethane		5	5.50	ug/L	110	(70-130)	20	1.8
MBLK	Chloroethane			<0.5	ug/L				
MRL_CHK	Chloroethane		0.5	0.540	ug/L	108	(50-150)		
LCS1	Chloroform (Trichloromethane)		5	5.18	ug/L	104	(70-130)		
LCS2	Chloroform (Trichloromethane)		5	5.07	ug/L	101	(70-130)	20	2.1
MBLK	Chloroform (Trichloromethane)			<0.5	ug/L				
MRL_CHK	Chloroform (Trichloromethane)		0.5	0.510	ug/L	102	(50-150)		
LCS1	Chloromethane(Methyl Chloride)		5	5.64	ug/L	113	(70-130)		
LCS2	Chloromethane(Methyl Chloride)		5	5.50	ug/L	110	(70-130)	20	2.5
MBLK	Chloromethane(Methyl Chloride)			<0.5	ug/L				
MRL_CHK	Chloromethane(Methyl Chloride)		0.5	0.640	ug/L	128	(50-150)		
LCS1	cis-1,2-Dichloroethylene		5	4.90	ug/L	98	(70-130)		
LCS2	cis-1,2-Dichloroethylene		5	4.94	ug/L	99	(70-130)	20	0.81
MBLK	cis-1,2-Dichloroethylene			<0.5	ug/L				
MRL_CHK	cis-1,2-Dichloroethylene		0.5	0.550	ug/L	110	(50-150)		
LCS1	cis-1,3-Dichloropropene		5	4.84	ug/L	97	(70-130)		
LCS2	cis-1,3-Dichloropropene		5	4.82	ug/L	96	(70-130)	20	0.41
MBLK	cis-1,3-Dichloropropene			<0.5	ug/L				
MRL_CHK	cis-1,3-Dichloropropene		0.5	0.430	ug/L	86	(50-150)		
LCS1	Dibromomethane		5	4.90	ug/L	98	(70-130)		
LCS2	Dibromomethane		5	5.04	ug/L	101	(70-130)	20	2.8
MBLK	Dibromomethane			<0.5	ug/L				
MRL_CHK	Dibromomethane		0.5	0.550	ug/L	110	(50-150)		
LCS1	Dichlorodifluoromethane		5	5.75	ug/L	115	(70-130)		
LCS2	Dichlorodifluoromethane		5	5.76	ug/L	115	(70-130)	20	0.17
MBLK	Dichlorodifluoromethane			<0.5	ug/L				
MRL_CHK	Dichlorodifluoromethane		0.5	0.490	ug/L	98	(50-150)		
LCS1	Dichloromethane		5	5.25	ug/L	105	(70-130)		
LCS2	Dichloromethane		5	5.32	ug/L	106	(70-130)	20	1.3
MBLK	Dichloromethane			<0.5	ug/L				
MRL_CHK	Dichloromethane		0.5	0.570	ug/L	114	(50-150)		
LCS1	Di-isopropyl ether		5	5.12	ug/L	102	(70-130)		
LCS2	Di-isopropyl ether		5	5.30	ug/L	106	(70-130)	20	3.5
MBLK	Di-isopropyl ether			<3.0	ug/L				
MRL_CHK	Di-isopropyl ether		0.5	0.550	ug/L	110	(50-150)		
LCS1	Ethyl benzene		5	4.77	ug/L	95	(70-130)		
LCS2	Ethyl benzene		5	4.88	ug/L	98	(70-130)	20	2.3

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
MBLK	Ethyl benzene			<0.5	ug/L				
MRL_CHK	Ethyl benzene		0.5	0.450	ug/L	90	(50-150)		
LCS1	Hexachlorobutadiene		5	5.40	ug/L	108	(70-130)		
LCS2	Hexachlorobutadiene		5	5.17	ug/L	103	(70-130)	20	4.3
MBLK	Hexachlorobutadiene			<0.5	ug/L				
MRL_CHK	Hexachlorobutadiene		0.5	0.680	ug/L	136	(50-150)		
LCS1	Isopropylbenzene		5	5.18	ug/L	104	(70-130)		
LCS2	Isopropylbenzene		5	5.00	ug/L	100	(70-130)	20	3.5
MBLK	Isopropylbenzene			<0.5	ug/L				
MRL_CHK	Isopropylbenzene		0.5	0.490	ug/L	98	(50-150)		
LCS1	m,p-Xylenes		10	9.39	ug/L	94	(70-130)		
LCS2	m,p-Xylenes		10	9.21	ug/L	92	(70-130)	20	1.9
MBLK	m,p-Xylenes			<0.5	ug/L				
MRL_CHK	m,p-Xylenes		1	0.870	ug/L	87	(50-150)		
MRLLW	m,p-Xylenes		0.5	0.410	ug/L	82	(50-150)		
LCS1	m-Dichlorobenzene (1,3-DCB)		5	5.13	ug/L	103	(70-130)		
LCS2	m-Dichlorobenzene (1,3-DCB)		5	5.09	ug/L	102	(70-130)	20	0.78
MBLK	m-Dichlorobenzene (1,3-DCB)			<0.5	ug/L				
MRL_CHK	m-Dichlorobenzene (1,3-DCB)		0.5	0.530	ug/L	106	(50-150)		
LCS1	Methyl Tert-butyl ether (MTBE)		5	5.43	ug/L	109	(70-130)		
LCS2	Methyl Tert-butyl ether (MTBE)		5	5.55	ug/L	111	(70-130)	20	2.2
MBLK	Methyl Tert-butyl ether (MTBE)			<0.5	ug/L				
MRL_CHK	Methyl Tert-butyl ether (MTBE)		0.5	0.570	ug/L	114	(50-150)		
LCS1	Naphthalene		5	5.26	ug/L	105	(70-130)		
LCS2	Naphthalene		5	5.07	ug/L	101	(70-130)	20	3.7
MBLK	Naphthalene			<0.5	ug/L				
MRL_CHK	Naphthalene		0.5	0.630	ug/L	126	(50-150)		
LCS1	n-Butylbenzene		5	5.02	ug/L	100	(70-130)		
LCS2	n-Butylbenzene		5	4.82	ug/L	96	(70-130)	20	4.1
MBLK	n-Butylbenzene			<0.5	ug/L				
MRL_CHK	n-Butylbenzene		0.5	0.500	ug/L	100	(50-150)		
LCS1	n-Propylbenzene		5	5.09	ug/L	102	(70-130)		
LCS2	n-Propylbenzene		5	5.09	ug/L	102	(70-130)	20	0.0
MBLK	n-Propylbenzene			<0.5	ug/L				
MRL_CHK	n-Propylbenzene		0.5	0.560	ug/L	112	(50-150)		
LCS1	o-Chlorotoluene		5	5.18	ug/L	104	(70-130)		
LCS2	o-Chlorotoluene		5	5.04	ug/L	101	(70-130)	20	2.7
MBLK	o-Chlorotoluene			<0.5	ug/L				

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
MRL_CHK	o-Chlorotoluene		0.5	0.520	ug/L	104	(50-150)		
LCS1	o-Dichlorobenzene (1,2-DCB)		5	4.93	ug/L	99	(70-130)		
LCS2	o-Dichlorobenzene (1,2-DCB)		5	4.72	ug/L	94	(70-130)	20	4.3
MBLK	o-Dichlorobenzene (1,2-DCB)			<0.5	ug/L				
MRL_CHK	o-Dichlorobenzene (1,2-DCB)		0.5	0.480	ug/L	96	(50-150)		
LCS1	o-Xylene		5	4.64	ug/L	93	(70-130)		
LCS2	o-Xylene		5	4.55	ug/L	91	(70-130)	20	2.0
MBLK	o-Xylene			<0.5	ug/L				
MRL_CHK	o-Xylene		0.5	0.440	ug/L	88	(50-150)		
LCS1	p-Chlorotoluene		5	4.82	ug/L	96	(70-130)		
LCS2	p-Chlorotoluene		5	4.75	ug/L	95	(70-130)	20	1.5
MBLK	p-Chlorotoluene			<0.5	ug/L				
MRL_CHK	p-Chlorotoluene		0.5	0.490	ug/L	98	(50-150)		
LCS1	p-Dichlorobenzene (1,4-DCB)		5	5.10	ug/L	102	(70-130)		
LCS2	p-Dichlorobenzene (1,4-DCB)		5	4.92	ug/L	98	(70-130)	20	3.6
MBLK	p-Dichlorobenzene (1,4-DCB)			<0.5	ug/L				
MRL_CHK	p-Dichlorobenzene (1,4-DCB)		0.5	0.530	ug/L	106	(50-150)		
LCS1	p-Isopropyltoluene		5	5.12	ug/L	102	(70-130)		
LCS2	p-Isopropyltoluene		5	4.97	ug/L	99	(70-130)	20	3.0
MBLK	p-Isopropyltoluene			<0.5	ug/L				
MRL_CHK	p-Isopropyltoluene		0.5	0.460	ug/L	92	(50-150)		
LCS1	sec-Butylbenzene		5	5.48	ug/L	110	(70-130)		
LCS2	sec-Butylbenzene		5	5.39	ug/L	108	(70-130)	20	1.7
MBLK	sec-Butylbenzene			<0.5	ug/L				
MRL_CHK	sec-Butylbenzene		0.5	0.510	ug/L	102	(50-150)		
LCS1	Styrene		5	5.09	ug/L	102	(70-130)		
LCS2	Styrene		5	4.99	ug/L	100	(70-130)	20	2.0
MBLK	Styrene			<0.5	ug/L				
MRL_CHK	Styrene		0.5	0.450	ug/L	90	(50-150)		
LCS1	tert-amyl Methyl Ether		5	5.52	ug/L	110	(70-130)		
LCS2	tert-amyl Methyl Ether		5	5.49	ug/L	110	(70-130)	20	0.55
MBLK	tert-amyl Methyl Ether			<3.0	ug/L				
MRL_CHK	tert-amyl Methyl Ether		0.5	0.530	ug/L	106	(50-150)		
LCS1	tert-Butyl Ethyl Ether		5	5.53	ug/L	111	(70-130)		
LCS2	tert-Butyl Ethyl Ether		5	5.62	ug/L	112	(70-130)	20	1.6
MBLK	tert-Butyl Ethyl Ether			<3.0	ug/L				
MRL_CHK	tert-Butyl Ethyl Ether		0.5	0.550	ug/L	110	(50-150)		
LCS1	tert-Butylbenzene		5	5.14	ug/L	103	(70-130)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
LCS2	tert-Butylbenzene		5	5.04	ug/L	101	(70-130)	20	2.0
MBLK	tert-Butylbenzene			<0.5	ug/L				
MRL_CHK	tert-Butylbenzene		0.5	0.510	ug/L	102	(50-150)		
LCS1	Tetrachloroethylene (PCE)		5	4.66	ug/L	93	(70-130)		
LCS2	Tetrachloroethylene (PCE)		5	4.77	ug/L	95	(70-130)	20	2.3
MBLK	Tetrachloroethylene (PCE)			<0.5	ug/L				
MRL_CHK	Tetrachloroethylene (PCE)		0.5	0.500	ug/L	100	(50-150)		
LCS1	Toluene		5	5.01	ug/L	100	(70-130)		
LCS2	Toluene		5	4.84	ug/L	97	(70-130)	20	3.5
MBLK	Toluene			<0.5	ug/L				
MRL_CHK	Toluene		0.5	0.470	ug/L	94	(50-150)		
LCS1	Toluene-d8 (S)		5	95.8	%	96	(70-130)		
LCS2	Toluene-d8 (S)		5	97.8	%	98	(70-130)		
MBLK	Toluene-d8 (S)			93.2	%	93	(70-130)		
MRL_CHK	Toluene-d8 (S)		5	92.0	%	92	(70-130)		
MRLLW	Toluene-d8 (S)		5	93.0	%	93	(70-130)		
LCS1	trans-1,2-Dichloroethylene		5	5.72	ug/L	114	(70-130)		
LCS2	trans-1,2-Dichloroethylene		5	5.63	ug/L	113	(70-130)	20	1.6
MBLK	trans-1,2-Dichloroethylene			<0.5	ug/L				
MRL_CHK	trans-1,2-Dichloroethylene		0.5	0.530	ug/L	106	(50-150)		
LCS1	trans-1,3-Dichloropropene		5	5.11	ug/L	102	(70-130)		
LCS2	trans-1,3-Dichloropropene		5	5.00	ug/L	100	(70-130)	20	2.2
MBLK	trans-1,3-Dichloropropene			<0.5	ug/L				
MRL_CHK	trans-1,3-Dichloropropene		0.5	0.410	ug/L	82	(50-150)		
LCS1	Trichloroethylene (TCE)		5	5.07	ug/L	101	(70-130)		
LCS2	Trichloroethylene (TCE)		5	5.19	ug/L	104	(70-130)	20	2.3
MBLK	Trichloroethylene (TCE)			<0.5	ug/L				
MRL_CHK	Trichloroethylene (TCE)		0.5	0.500	ug/L	100	(50-150)		
LCS1	Trichlorofluoromethane		5	5.00	ug/L	100	(70-130)		
LCS2	Trichlorofluoromethane		5	4.97	ug/L	99	(70-130)	20	0.60
MBLK	Trichlorofluoromethane			<0.5	ug/L				
MRL_CHK	Trichlorofluoromethane		0.5	0.520	ug/L	104	(50-150)		
LCS1	Trichlorotrifluoroethane(Freon		5	5.75	ug/L	115	(70-130)		
LCS2	Trichlorotrifluoroethane(Freon		5	5.82	ug/L	116	(70-130)	20	1.2
MBLK	Trichlorotrifluoroethane(Freon			<0.5	ug/L				
MRL_CHK	Trichlorotrifluoroethane(Freon		0.5	0.510	ug/L	102	(50-150)		
LCS1	Vinyl chloride (VC)		5	5.92	ug/L	118	(70-130)		
LCS2	Vinyl chloride (VC)		5	5.91	ug/L	118	(70-130)	20	0.17

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield(%)	Limits (%)	RPD Limit(%)	RPD%
MBLK	Vinyl chloride (VC)			<0.3	ug/L				
MRL_CHK	Vinyl chloride (VC)		0.5	0.540	ug/L	108	(50-150)		
MRLLW	Vinyl chloride (VC)		0.25	0.250	ug/L	100	(50-150)		

Radium 226 by Ra-226 GA

Analytical Batch: 1195151

Analysis Date: 08/29/2019

LCS1	Radium 226		12	11.6	pCi/L	99	(80-120)		
LCS2	Radium 226		12	11.6	pCi/L	98	(80-120)	20	0.0
MBLK	Radium 226			<1	pCi/L				
MS_201908130827	Radium 226	ND	12	17.2	pCi/L	<u>146</u>	(70-130)		

Radium 228 by RA-228 GA

Analytical Batch: 1195154

Analysis Date: 08/29/2019

LCS1	Radium 228		11	12.4	pCi/L	117	(80-120)		
LCS2	Radium 228		11	11.2	pCi/L	106	(80-120)	20	9.3
MBLK	Radium 228			<1	pCi/L				
MS_201908130827	Radium 228	ND	11	13.4	pCi/L	126	(70-130)		

ICPMS Metals by EPA 200.8

Analytical Batch: 1197486

Analysis Date: 09/17/2019

LCS1	Silver Total ICAP/MS		25	25.0	ug/L	100	(85-115)		
LCS2	Silver Total ICAP/MS		25	25.9	ug/L	104	(85-115)	20	3.5
MBLK	Silver Total ICAP/MS			<0.25	ug/L				
MRL_CHK	Silver Total ICAP/MS		0.5	0.622	ug/L	124	(50-150)		
MS_201908130699	Silver Total ICAP/MS	ND	25	25.2	ug/L	101	(70-130)		
MS2_201908130515	Silver Total ICAP/MS	ND	25	25.0	ug/L	100	(70-130)		
MSD_201908130699	Silver Total ICAP/MS	ND	25	25.1	ug/L	100	(70-130)	20	0.27
MSD2_201908130515	Silver Total ICAP/MS	ND	25	25.5	ug/L	102	(70-130)	20	2.1

Spike recovery is already corrected for native results.

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RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

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