17-Jul-2017

Angye Dragotta
Environmental Quality Management, Inc.
1800 Carillon Blvd
Cincinnati, OH 45240

Re: **Wellsville Drum** Work Order: **1707412**

Dear Angye,

ALS Environmental received 4 samples on 11-Jul-2017 09:30 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 30.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Electronically approved by: Bill Carey

Bill Carey
Project Manager

Certificate No: MN 998501

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ALS Group, USA

Date: 17-Jul-17

Client: Environmental Quality Management, Inc.
Project: Wellsville Drum
Work Order: **1707412**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1707412-01	Solids	Solid		7/10/2017 17:00	7/11/2017 09:30	☐
1707412-02	Solids (TCLP)	Tclp Extract		7/10/2017 17:00	7/11/2017 09:30	☐
1707412-03	Oil & Water	Liquid		7/10/2017 17:00	7/11/2017 09:30	☐
1707412-04	Oil & Water (TCLP)	Tclp Extract		7/10/2017 17:00	7/11/2017 09:30	☐

Qualifier	Description
*	Value exceeds Regulatory Limit
**	Estimated Value
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte is present at an estimated concentration between the MDL and Report Limit
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

Acronym	Description
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

Units Reported	Description
% of sample	Percent of Sample
°F	Degrees Fahrenheit
µg/L	Micrograms per Liter
mg/Kg	Milligrams per Kilogram
mg/Kg-dry	Milligrams per Kilogram Dry Weight
mg/L	Milligrams per Liter
s.u.	Standard Units
wt%	Weight Percent

ALS Group, USA

Date: 17-Jul-17

Client: Environmental Quality Management, Inc.
Project: Wellsville Drum
Work Order: 1707412

Case Narrative

Samples for the above noted Work Order were received on 7/11/2017. The attached "Sample Receipt Checklist" documents the status of custody seals, container integrity, preservation, and temperature compliance.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting. A copy of the laboratory's scope of accreditation is available upon request.

With the following exceptions, all sample analyses achieved analytical criteria.

Volatile Organics:
No other deviations or anomalies were noted.

Extractable Organics:
Batch 104373, Method TCBA_8270_S, Sample 1707412-02A MSD: The RPD between the MS and MSD was outside the control limit. The corresponding result in the parent sample should be considered estimated for this analyte: Pyridine

Metals:
No other deviations or anomalies were noted.

Wet Chemistry:
No other deviations or anomalies were noted.

ALS Group, USA

Date: *17-Jul-17*

Client: Environmental Quality Management, Inc.
Project: Wellsville Drum
Work Order: 1707412
Sample ID: Solids
Lab ID: 1707412-01
Collection Date: 7/10/2017 05:00 PM
Matrix: SOLID

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**	Prep: SW3546 7/12/17 11:35		Analyst: **EB**
Aroclor 1016	ND		0.67	mg/Kg-dry	5	7/12/2017 10:38 PM
Aroclor 1221	ND		0.67	mg/Kg-dry	5	7/12/2017 10:38 PM
Aroclor 1232	ND		0.67	mg/Kg-dry	5	7/12/2017 10:38 PM
Aroclor 1242	ND		0.67	mg/Kg-dry	5	7/12/2017 10:38 PM
Aroclor 1248	ND		0.67	mg/Kg-dry	5	7/12/2017 10:38 PM
Aroclor 1254	ND		0.67	mg/Kg-dry	5	7/12/2017 10:38 PM
Aroclor 1260	ND		0.67	mg/Kg-dry	5	7/12/2017 10:38 PM
Surr: Decachlorobiphenyl	*76.9*		*40-140*	*%REC*	5	7/12/2017 10:38 PM
Surr: Tetrachloro-m-xylene	*75.1*		*45-124*	*%REC*	5	7/12/2017 10:38 PM
CYANIDE, REACTIVE			**SW7.3.3.2**			Analyst: **RZM**
Cyanide, Reactive	ND		210	mg/Kg-dry	1	7/13/2017 10:02 AM
FLASHPOINT/IGNITABILITY ANALYSIS			**SW1010A**			Analyst: **RZM**
Flashpoint/Ignitability	*>200*		1.00	°F	1	7/13/2017 09:10 AM
MOISTURE			**SW3550C**			Analyst: **SBR**
Moisture	**52**		**0.050**	**% of sample**	1	7/12/2017 11:45 AM
PH			**SW9045D**	Prep: EXTRACT 7/13/17 14:46		Analyst: **RZM**
pH	**4.73**		**0.100**	**s.u.**	1	7/14/2017 10:45 AM
SULFIDE, REACTIVE			**SW7.3.4.2**			Analyst: **RZM**
Sulfide, Reactive	ND		210	mg/Kg-dry	1	7/13/2017 09:32 AM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *17-Jul-17*

Client: Environmental Quality Management, Inc.
Project: Wellsville Drum
Sample ID: Solids (TCLP)
Collection Date: 7/10/2017 05:00 PM

Work Order: 1707412
Lab ID: 1707412-02
Matrix: TCLP EXTRACT

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP MERCURY BY CVAA			**SW7470A**		Prep: SW7470 7/13/17 11:59	Analyst: **JJB**
Mercury	ND		0.0020	mg/L	1	7/13/2017 01:28 PM
TCLP METALS ANALYSIS BY ICP			**SW846 6010C**		Prep: SW3005A 7/13/17 14:04	Analyst: **LR**
Arsenic	ND		0.050	mg/L	1	7/13/2017 06:03 PM
Barium	**0.52**		**0.050**	**mg/L**	1	7/13/2017 06:03 PM
Cadmium	ND		0.10	mg/L	1	7/13/2017 06:03 PM
Chromium	ND		0.050	mg/L	1	7/13/2017 06:03 PM
Lead	**0.086**		**0.050**	**mg/L**	1	7/13/2017 06:03 PM
Selenium	ND		0.10	mg/L	1	7/14/2017 03:17 PM
Silver	ND		0.050	mg/L	1	7/13/2017 06:03 PM
TCLP SEMI-VOLATILE ORGANICS			**SW8270D**		Prep: SW3510 7/13/17 14:27	Analyst: **RM**
1,4-Dichlorobenzene	ND		100	µg/L	1	7/13/2017 07:39 PM
2,4,5-Trichlorophenol	ND		100	µg/L	1	7/13/2017 07:39 PM
2,4,6-Trichlorophenol	ND		100	µg/L	1	7/13/2017 07:39 PM
2,4-Dinitrotoluene	ND		100	µg/L	1	7/13/2017 07:39 PM
Hexachloro-1,3-butadiene	ND		100	µg/L	1	7/13/2017 07:39 PM
Hexachlorobenzene	ND		100	µg/L	1	7/13/2017 07:39 PM
Hexachloroethane	ND		100	µg/L	1	7/13/2017 07:39 PM
m-Cresol	ND		100	µg/L	1	7/13/2017 07:39 PM
Nitrobenzene	ND		100	µg/L	1	7/13/2017 07:39 PM
o-Cresol	ND		100	µg/L	1	7/13/2017 07:39 PM
p-Cresol	ND		100	µg/L	1	7/13/2017 07:39 PM
Pentachlorophenol	ND		100	µg/L	1	7/13/2017 07:39 PM
Pyridine	ND		200	µg/L	1	7/13/2017 07:39 PM
Surr: 2,4,6-Tribromophenol	*48.4*		*32-92*	*%REC*	1	7/13/2017 07:39 PM
Surr: 2-Fluorobiphenyl	*48.5*		*34-98*	*%REC*	1	7/13/2017 07:39 PM
Surr: 2-Fluorophenol	*35.4*		*23-55*	*%REC*	1	7/13/2017 07:39 PM
Surr: 4-Terphenyl-d14	*82.8*		*50-111*	*%REC*	1	7/13/2017 07:39 PM
Surr: Nitrobenzene-d5	*43.7*		*32-89*	*%REC*	1	7/13/2017 07:39 PM
Surr: Phenol-d6	*19.2*		*10-35*	*%REC*	1	7/13/2017 07:39 PM
TCLP VOLATILE ORGANICS			**SW8260B**		Leachate: SW1311 / 7/13/17	Analyst: **BG**
1,1-Dichloroethene	ND		20	µg/L	20	7/13/2017 07:42 PM
1,2-Dichloroethane	ND		20	µg/L	20	7/13/2017 07:42 PM
2-Butanone	ND		100	µg/L	20	7/13/2017 07:42 PM
Benzene	ND		20	µg/L	20	7/13/2017 07:42 PM
Carbon tetrachloride	ND		20	µg/L	20	7/13/2017 07:42 PM
Chlorobenzene	ND		20	µg/L	20	7/13/2017 07:42 PM
Chloroform	ND		20	µg/L	20	7/13/2017 07:42 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *17-Jul-17*

Client: Environmental Quality Management, Inc.
Project: Wellsville Drum
Sample ID: Solids (TCLP)
Collection Date: 7/10/2017 05:00 PM

Work Order: 1707412
Lab ID: 1707412-02
Matrix: TCLP EXTRACT

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Tetrachloroethene	ND		20	µg/L	20	7/13/2017 07:42 PM
Trichloroethene	ND		20	µg/L	20	7/13/2017 07:42 PM
Vinyl chloride	ND		20	µg/L	20	7/13/2017 07:42 PM
Surr: 1,2-Dichloroethane-d4	*106*		*70-130*	*%REC*	20	7/13/2017 07:42 PM
Surr: 4-Bromofluorobenzene	*89.6*		*70-130*	*%REC*	20	7/13/2017 07:42 PM
Surr: Dibromofluoromethane	*104*		*70-130*	*%REC*	20	7/13/2017 07:42 PM
Surr: Toluene-d8	*98.8*		*70-130*	*%REC*	20	7/13/2017 07:42 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *17-Jul-17*

Client: Environmental Quality Management, Inc.
Project: Wellsville Drum
Sample ID: Oil & Water
Collection Date: 7/10/2017 05:00 PM

Work Order: 1707412
Lab ID: 1707412-03
Matrix: LIQUID

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**			Analyst: **EB**
Aroclor 1016	ND		0.87	mg/Kg	1	7/14/2017 06:09 AM
Aroclor 1221	ND		0.87	mg/Kg	1	7/14/2017 06:09 AM
Aroclor 1232	ND		0.87	mg/Kg	1	7/14/2017 06:09 AM
Aroclor 1242	ND		0.87	mg/Kg	1	7/14/2017 06:09 AM
Aroclor 1248	ND		0.87	mg/Kg	1	7/14/2017 06:09 AM
Aroclor 1254	ND		0.87	mg/Kg	1	7/14/2017 06:09 AM
Aroclor 1260	ND		0.87	mg/Kg	1	7/14/2017 06:09 AM
Surr: Decachlorobiphenyl	*102*		*40-140*	*%REC*	1	7/14/2017 06:09 AM
FLASHPOINT/IGNITABILITY ANALYSIS			**SW1010A**			Analyst: **RZM**
Flashpoint/Ignitability	**174**		**1.00**	**°F**	1	7/12/2017 09:30 AM
TOTAL HALOGENS IN OIL			**SW9077**			Analyst: **ED**
Total Halogens in Oil	**0.084**		**0.025**	**wt%**	1	7/14/2017 12:40 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *17-Jul-17*

Client: Environmental Quality Management, Inc.
Project: Wellsville Drum
Sample ID: Oil & Water (TCLP)
Collection Date: 7/10/2017 05:00 PM

Work Order: 1707412
Lab ID: 1707412-04
Matrix: TCLP EXTRACT

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP MERCURY BY CVAA			**SW7470A**		Prep: SW7470 7/13/17 11:59	Analyst: **JJB**
Mercury	ND		0.0020	mg/L	1	7/13/2017 01:30 PM
TCLP METALS ANALYSIS BY ICP			**SW846 6010C**		Prep: SW3005A 7/13/17 14:04	Analyst: **LR**
Arsenic	ND		0.050	mg/L	1	7/13/2017 06:09 PM
Barium	**0.52**		**0.050**	**mg/L**	1	7/13/2017 06:09 PM
Cadmium	ND		0.10	mg/L	1	7/13/2017 06:09 PM
Chromium	ND		0.050	mg/L	1	7/13/2017 06:09 PM
Lead	**0.087**		**0.050**	**mg/L**	1	7/13/2017 06:09 PM
Selenium	ND		0.10	mg/L	1	7/14/2017 03:24 PM
Silver	ND		0.050	mg/L	1	7/13/2017 06:09 PM
TCLP SEMI-VOLATILE ORGANICS			**SW8270D**		Prep: SW3510 7/13/17 14:27	Analyst: **RM**
1,4-Dichlorobenzene	ND		100	µg/L	1	7/13/2017 09:12 PM
2,4,5-Trichlorophenol	ND		100	µg/L	1	7/13/2017 09:12 PM
2,4,6-Trichlorophenol	ND		100	µg/L	1	7/13/2017 09:12 PM
2,4-Dinitrotoluene	ND		100	µg/L	1	7/13/2017 09:12 PM
Hexachloro-1,3-butadiene	ND		100	µg/L	1	7/13/2017 09:12 PM
Hexachlorobenzene	ND		100	µg/L	1	7/13/2017 09:12 PM
Hexachloroethane	ND		100	µg/L	1	7/13/2017 09:12 PM
m-Cresol	ND		100	µg/L	1	7/13/2017 09:12 PM
Nitrobenzene	ND		100	µg/L	1	7/13/2017 09:12 PM
o-Cresol	ND		100	µg/L	1	7/13/2017 09:12 PM
p-Cresol	ND		100	µg/L	1	7/13/2017 09:12 PM
Pentachlorophenol	ND		100	µg/L	1	7/13/2017 09:12 PM
Pyridine	ND		200	µg/L	1	7/13/2017 09:12 PM
Surr: 2,4,6-Tribromophenol	*51.1*		*32-92*	*%REC*	1	7/13/2017 09:12 PM
Surr: 2-Fluorobiphenyl	*43.2*		*34-98*	*%REC*	1	7/13/2017 09:12 PM
Surr: 2-Fluorophenol	*35.2*		*23-55*	*%REC*	1	7/13/2017 09:12 PM
Surr: 4-Terphenyl-d14	*69.1*		*50-111*	*%REC*	1	7/13/2017 09:12 PM
Surr: Nitrobenzene-d5	*39.2*		*32-89*	*%REC*	1	7/13/2017 09:12 PM
Surr: Phenol-d6	*19.7*		*10-35*	*%REC*	1	7/13/2017 09:12 PM
TCLP VOLATILE ORGANICS			**SW8260B**		Leachate: SW1311 / 7/13/17	Analyst: **BG**
1,1-Dichloroethene	ND		20	µg/L	20	7/13/2017 08:08 PM
1,2-Dichloroethane	ND		20	µg/L	20	7/13/2017 08:08 PM
2-Butanone	ND		100	µg/L	20	7/13/2017 08:08 PM
Benzene	ND		20	µg/L	20	7/13/2017 08:08 PM
Carbon tetrachloride	ND		20	µg/L	20	7/13/2017 08:08 PM
Chlorobenzene	ND		20	µg/L	20	7/13/2017 08:08 PM
Chloroform	ND		20	µg/L	20	7/13/2017 08:08 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *17-Jul-17*

Client: Environmental Quality Management, Inc.
Project: Wellsville Drum
Sample ID: Oil & Water (TCLP)
Collection Date: 7/10/2017 05:00 PM

Work Order: 1707412
Lab ID: 1707412-04
Matrix: TCLP EXTRACT

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Tetrachloroethene	**54**		**20**	**µg/L**	20	7/13/2017 08:08 PM
Trichloroethene	ND		20	µg/L	20	7/13/2017 08:08 PM
Vinyl chloride	ND		20	µg/L	20	7/13/2017 08:08 PM
Surr: 1,2-Dichloroethane-d4	*110*		*70-130*	*%REC*	20	7/13/2017 08:08 PM
Surr: 4-Bromofluorobenzene	*94.8*		*70-130*	*%REC*	20	7/13/2017 08:08 PM
Surr: Dibromofluoromethane	*105*		*70-130*	*%REC*	20	7/13/2017 08:08 PM
Surr: Toluene-d8	*96.6*		*70-130*	*%REC*	20	7/13/2017 08:08 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 17-Jul-17

Client: Environmental Quality Management, Inc.

Work Order: 1707412

Project: Wellsville Drum

QC BATCH REPORT

Batch ID: **104323** Instrument ID **GC14** Method: **SW8082**

MBLK Sample ID: **PBLKS1-104323-104323** Units: **µg/Kg** Analysis Date: **7/12/2017 09:12 PM**

Client ID: Run ID: **GC14_170712B** SeqNo: **4529986** Prep Date: **7/12/2017** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	67								
Aroclor 1221	ND	67								
Aroclor 1232	ND	67								
Aroclor 1242	ND	67								
Aroclor 1248	ND	67								
Aroclor 1254	ND	67								
Aroclor 1260	ND	67								
Surr: Decachlorobiphenyl	*31.75*	0	*33.3*	0	*95.4*	*40-140*	0			
Surr: Tetrachloro-m-xylene	*29.26*	0	*33.3*	0	*87.9*	*45-124*	0			

LCS Sample ID: **PLCSS1-104323-104323** Units: **µg/Kg** Analysis Date: **7/12/2017 09:26 PM**

Client ID: Run ID: **GC14_170712B** SeqNo: **4529987** Prep Date: **7/12/2017** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	164	67	166.6	0	98.4	50-130	0			
Aroclor 1260	159.5	67	166.6	0	95.7	50-130	0			
Surr: Decachlorobiphenyl	*165.1*	0	*166.5*	0	*99.2*	*40-140*	0			
Surr: Tetrachloro-m-xylene	*146.1*	0	*166.5*	0	*87.7*	*45-124*	0			

MS Sample ID: **1707406-04B MS** Units: **µg/Kg** Analysis Date: **7/12/2017 09:55 PM**

Client ID: Run ID: **GC14_170712B** SeqNo: **4529989** Prep Date: **7/12/2017** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	715	65	816.3	0	87.6	40-140	0			
Aroclor 1260	713.7	65	816.3	0	87.4	40-140	0			
Surr: Decachlorobiphenyl	*42.63*	0	*32.63*	0	*131*	*40-140*	0			
Surr: Tetrachloro-m-xylene	*39.37*	0	*32.63*	0	*121*	*45-124*	0			

MSD Sample ID: **1707406-04B MSD** Units: **µg/Kg** Analysis Date: **7/12/2017 10:09 PM**

Client ID: Run ID: **GC14_170712B** SeqNo: **4529990** Prep Date: **7/12/2017** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	833.9	66	827.6	0	101	40-140	715	15.4	50	
Aroclor 1260	845.5	66	827.6	0	102	40-140	713.7	16.9	50	
Surr: Decachlorobiphenyl	*31.23*	0	*33.08*	0	*94.4*	*40-140*	42.63	*30.9*	*50*	
Surr: Tetrachloro-m-xylene	*28.46*	0	*33.08*	0	*86*	*45-124*	39.37	*32.2*	*50*	

The following samples were analyzed in this batch: 1707412-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Environmental Quality Management, Inc.
Work Order: 1707412
Project: Wellsville Drum

QC BATCH REPORT

Batch ID: **104418A** Instrument ID **GC14** Method: **SW8082**

MBLK Sample ID: **MBLK-104418-104418A** Units: **mg/Kg** Analysis Date: **7/14/2017 05:40 AM**

Client ID: Run ID: **GC14_170713B** SeqNo: **4530893** Prep Date: **7/13/2017** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	1.0								
Aroclor 1221	ND	1.0								
Aroclor 1232	ND	1.0								
Aroclor 1242	ND	1.0								
Aroclor 1248	ND	1.0								
Aroclor 1254	ND	1.0								
Aroclor 1260	ND	1.0								
Surr: Decachlorobiphenyl	*1.28*	0	*1*	0	*128*	*50-130*	0			

LCS Sample ID: **LCS-104418-104418A** Units: **mg/Kg** Analysis Date: **7/14/2017 05:55 AM**

Client ID: Run ID: **GC14_170713B** SeqNo: **4530894** Prep Date: **7/13/2017** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	52.85	1.0	50	0	106	50-130	0			
Aroclor 1260	54.84	1.0	50	0	110	50-130	0			
Surr: Decachlorobiphenyl	*1.13*	0	*1*	0	*113*	*50-130*	0			

The following samples were analyzed in this batch: 1707412-03A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Environmental Quality Management, Inc.
Work Order: 1707412
Project: Wellsville Drum

QC BATCH REPORT

Batch ID: **104388** Instrument ID **HG1** Method: **SW7470A**

MBLK Sample ID: **MBLK-104388-104388** Units: **mg/L** Analysis Date: **7/13/2017 01:12 PM**

Client ID: Run ID: **HG1_170713A** SeqNo: **4530532** Prep Date: **7/13/2017** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	0.00020								

LCS Sample ID: **LCS-104388-104388** Units: **mg/L** Analysis Date: **7/13/2017 01:15 PM**

Client ID: Run ID: **HG1_170713A** SeqNo: **4530533** Prep Date: **7/13/2017** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.002	0.00020	0.002	0	100	80-120	0			

MS Sample ID: **1707432-01AMS** Units: **mg/L** Analysis Date: **7/13/2017 01:48 PM**

Client ID: Run ID: **HG1_170713A** SeqNo: **4530548** Prep Date: **7/13/2017** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.0199	0.0020	0.02	-0.00028	101	75-125	0			

MSD Sample ID: **1707432-01AMSD** Units: **mg/L** Analysis Date: **7/13/2017 01:51 PM**

Client ID: Run ID: **HG1_170713A** SeqNo: **4530549** Prep Date: **7/13/2017** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.0204	0.0020	0.02	-0.00028	103	75-125	0.0199	2.48	20	

The following samples were analyzed in this batch: 1707412-02A 1707412-04A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Environmental Quality Management, Inc.
Work Order: 1707412
Project: Wellsville Drum

QC BATCH REPORT

Batch ID: **104390** Instrument ID **ICP2** Method: **SW846 6010C**

MBLK Sample ID: **MBLK-104390-104390** Units: **mg/L** Analysis Date: **7/13/2017 05:44 PM**
Client ID: Run ID: **ICP2_170713A** SeqNo: **4531471** Prep Date: **7/13/2017** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.0050								
Barium	ND	0.0050								
Cadmium	ND	0.010								
Chromium	ND	0.0050								
Lead	ND	0.0050								
Silver	ND	0.0050								

MBLK Sample ID: **MBLK-104390-104390** Units: **mg/L** Analysis Date: **7/14/2017 02:58 PM**
Client ID: Run ID: **ICP2_170714A** SeqNo: **4532963** Prep Date: **7/13/2017** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Selenium	ND	0.010								

LCS Sample ID: **LCS-104390-104390** Units: **mg/L** Analysis Date: **7/13/2017 05:50 PM**
Client ID: Run ID: **ICP2_170713A** SeqNo: **4531472** Prep Date: **7/13/2017** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.1029	0.0050	0.1	0	103	80-120	0			
Barium	0.101	0.0050	0.1	0	101	80-120	0			
Cadmium	0.1026	0.010	0.1	0	103	80-120	0			
Chromium	0.105	0.0050	0.1	0	105	80-120	0			
Lead	0.1072	0.0050	0.1	0	107	80-120	0			
Selenium	0.09629	0.010	0.1	0	96.3	80-120	0			
Silver	0.114	0.0050	0.1	0	114	80-120	0			

LCS Sample ID: **LCS-104390-104390** Units: **mg/L** Analysis Date: **7/14/2017 03:04 PM**
Client ID: Run ID: **ICP2_170714A** SeqNo: **4532964** Prep Date: **7/13/2017** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Selenium	0.09493	0.010	0.1	0	94.9	80-120	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Environmental Quality Management, Inc.
Work Order: 1707412
Project: Wellsville Drum

QC BATCH REPORT

Batch ID: **104390** Instrument ID **ICP2** Method: **SW846 6010C**

MS Sample ID: **1707416-06AMS** Units: **mg/L** Analysis Date: **7/13/2017 06:29 PM**

Client ID: Run ID: **ICP2_170713A** SeqNo: **4531478** Prep Date: **7/13/2017** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	1.05	0.050	1	-0.00282	105	75-125	0			
Barium	1.243	0.050	1	0.2291	101	75-125	0			
Cadmium	1.05	0.10	1	0.009732	104	75-125	0			
Chromium	1.066	0.050	1	0.003006	106	75-125	0			
Lead	1.133	0.050	1	0.04229	109	75-125	0			
Silver	1.156	0.050	1	0.001574	115	75-125	0			

MS Sample ID: **1707416-06AMS** Units: **mg/L** Analysis Date: **7/14/2017 03:43 PM**

Client ID: Run ID: **ICP2_170714A** SeqNo: **4532970** Prep Date: **7/13/2017** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Selenium	0.9507	0.10	1	-0.006597	95.7	75-125	0			

MSD Sample ID: **1707416-06AMSD** Units: **mg/L** Analysis Date: **7/13/2017 06:54 PM**

Client ID: Run ID: **ICP2_170713A** SeqNo: **4531482** Prep Date: **7/13/2017** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	1.054	0.050	1	-0.00282	106	75-125	1.05	0.372	20	
Barium	1.243	0.050	1	0.2291	101	75-125	1.243	0.00073	20	
Cadmium	1.042	0.10	1	0.009732	103	75-125	1.05	0.82	20	
Chromium	1.063	0.050	1	0.003006	106	75-125	1.066	0.327	20	
Lead	1.125	0.050	1	0.04229	108	75-125	1.133	0.68	20	
Selenium	0.971	0.10	1	-0.0144	98.5	75-125	0.9649	0.627	20	
Silver	1.147	0.050	1	0.001574	115	75-125	1.156	0.799	20	

The following samples were analyzed in this batch: 1707412-02A 1707412-04A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Environmental Quality Management, Inc.
Work Order: 1707412
Project: Wellsville Drum

QC BATCH REPORT

Batch ID: **104373** Instrument ID **SVMS5** Method: **SW8270D**

MBLK Sample ID: **SBLKW1-104373-104373** Units: **µg/L** Analysis Date: **7/13/2017 05:20 PM**

Client ID: Run ID: **SVMS5_170713A** SeqNo: **4531045** Prep Date: **7/13/2017** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dichlorobenzene	ND	5.0								
2,4,5-Trichlorophenol	ND	5.0								
2,4,6-Trichlorophenol	ND	5.0								
2,4-Dinitrotoluene	ND	5.0								
Hexachloro-1,3-butadiene	ND	5.0								
Hexachlorobenzene	ND	5.0								
Hexachloroethane	ND	5.0								
m-Cresol	ND	5.0								
Nitrobenzene	ND	5.0								
o-Cresol	ND	5.0								
p-Cresol	ND	5.0								
Pentachlorophenol	ND	5.0								
Pyridine	ND	10								
Surr: 2,4,6-Tribromophenol	*21.88*	0	*50*	0	*43.8*	*32-92*		0		
Surr: 2-Fluorobiphenyl	*27.18*	0	*50*	0	*54.4*	*34-98*		0		
Surr: 2-Fluorophenol	*20.64*	0	*50*	0	*41.3*	*23-55*		0		
Surr: 4-Terphenyl-d14	*40.29*	0	*50*	0	*80.6*	*50-111*		0		
Surr: Nitrobenzene-d5	*24.01*	0	*50*	0	*48*	*32-89*		0		
Surr: Phenol-d6	*11.41*	0	*50*	0	*22.8*	*10-35*		0		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Environmental Quality Management, Inc.
Work Order: 1707412
Project: Wellsville Drum

QC BATCH REPORT

Batch ID: **104373** Instrument ID **SVMS5** Method: **SW8270D**

LCS Sample ID: **SLCSW1-104373-104373** Units: **µg/L** Analysis Date: **7/13/2017 05:43 PM**

Client ID: Run ID: **SVMS5_170713A** SeqNo: **4531046** Prep Date: **7/13/2017** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dichlorobenzene	10.35	5.0	20	0	51.8	26-96	0			
2,4,5-Trichlorophenol	12.05	5.0	20	0	60.2	45-104	0			
2,4,6-Trichlorophenol	11.47	5.0	20	0	57.4	41-102	0			
2,4-Dinitrotoluene	12.36	5.0	20	0	61.8	52-106	0			
Hexachloro-1,3-butadiene	10.12	5.0	20	0	50.6	21-99	0			
Hexachlorobenzene	12.95	5.0	20	0	64.8	52-104	0			
Hexachloroethane	10.19	5.0	20	0	51	19-99	0			
m-Cresol	10.31	5.0	20	0	51.6	31-81	0			
Nitrobenzene	11.55	5.0	20	0	57.8	41-101	0			
o-Cresol	11.23	5.0	20	0	56.2	32-87	0			
p-Cresol	10.31	5.0	20	0	51.6	31-81	0			
Pentachlorophenol	8.76	5.0	20	0	43.8	30-104	0			
Pyridine	6.97	10	20	0	34.8	11-60	0			J
Surr: 2,4,6-Tribromophenol	*27.69*	0	*50*	0	*55.4*	*32-92*	0			
Surr: 2-Fluorobiphenyl	*29.33*	0	*50*	0	*58.7*	*34-98*	0			
Surr: 2-Fluorophenol	*20.51*	0	*50*	0	*41*	*23-55*	0			
Surr: 4-Terphenyl-d14	*38*	0	*50*	0	*76*	*50-111*	0			
Surr: Nitrobenzene-d5	*26.04*	0	*50*	0	*52.1*	*32-89*	0			
Surr: Phenol-d6	*11.87*	0	*50*	0	*23.7*	*10-35*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Environmental Quality Management, Inc.
Work Order: 1707412
Project: Wellsville Drum

QC BATCH REPORT

Batch ID: **104373** Instrument ID **SVMS5** Method: **SW8270D**

MS Sample ID: **1707412-02A MS** Units: **µg/L** Analysis Date: **7/13/2017 06:53 PM**

Client ID: **Solids (TCLP)** Run ID: **SVMS5_170713A** SeqNo: **4531047** Prep Date: **7/13/2017** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dichlorobenzene	176.2	100	400	0	44	26-96	0			
2,4,5-Trichlorophenol	237.8	100	400	0	59.4	45-104	0			
2,4,6-Trichlorophenol	225	100	400	0	56.2	41-102	0			
2,4-Dinitrotoluene	237	100	400	0	59.2	52-106	0			
Hexachloro-1,3-butadiene	170.2	100	400	0	42.6	21-99	0			
Hexachlorobenzene	248.4	100	400	0	62.1	52-104	0			
Hexachloroethane	164.4	100	400	0	41.1	19-99	0			
m-Cresol	196.4	100	400	0	49.1	31-81	0			
Nitrobenzene	222.4	100	400	0	55.6	41-101	0			
o-Cresol	214.8	100	400	0	53.7	32-87	0			
p-Cresol	196.4	100	400	0	49.1	31-81	0			
Pentachlorophenol	206.6	100	400	0	51.6	30-104	0			
Pyridine	107.6	200	400	0	26.9	11-60	0			J
Surr: 2,4,6-Tribromophenol	*544.4*	0	*1000*	0	*54.4*	*32-92*	0			
Surr: 2-Fluorobiphenyl	*531.8*	0	*1000*	0	*53.2*	*34-98*	0			
Surr: 2-Fluorophenol	*380.6*	0	*1000*	0	*38.1*	*23-55*	0			
Surr: 4-Terphenyl-d14	*761.8*	0	*1000*	0	*76.2*	*50-111*	0			
Surr: Nitrobenzene-d5	*500.4*	0	*1000*	0	*50*	*32-89*	0			
Surr: Phenol-d6	*219.8*	0	*1000*	0	*22*	*10-35*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Environmental Quality Management, Inc.
Work Order: 1707412
Project: Wellsville Drum

QC BATCH REPORT

Batch ID: **104373** Instrument ID **SVMS5** Method: **SW8270D**

MSD Sample ID: **1707412-02A MSD** Units: **µg/L** Analysis Date: **7/13/2017 07:16 PM**

Client ID: **Solids (TCLP)** Run ID: **SVMS5_170713A** SeqNo: **4531048** Prep Date: **7/13/2017** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dichlorobenzene	208	100	400	0	52	26-96	176.2	16.6	30	
2,4,5-Trichlorophenol	223.6	100	400	0	55.9	45-104	237.8	6.16	30	
2,4,6-Trichlorophenol	220.6	100	400	0	55.2	41-102	225	1.97	30	
2,4-Dinitrotoluene	222.2	100	400	0	55.6	52-106	237	6.45	30	
Hexachloro-1,3-butadiene	204.8	100	400	0	51.2	21-99	170.2	18.5	30	
Hexachlorobenzene	232.4	100	400	0	58.1	52-104	248.4	6.66	30	
Hexachloroethane	209.4	100	400	0	52.4	19-99	164.4	24.1	30	
m-Cresol	201.4	100	400	0	50.4	31-81	196.4	2.51	30	
Nitrobenzene	216	100	400	0	54	41-101	222.4	2.92	30	
o-Cresol	214.6	100	400	0	53.6	32-87	214.8	0.0932	30	
p-Cresol	201.4	100	400	0	50.4	31-81	196.4	2.51	30	
Pentachlorophenol	182.4	100	400	0	45.6	30-104	206.6	12.4	30	
Pyridine	200	200	400	0	50	11-60	107.6	60.1	30	R
Surr: 2,4,6-Tribromophenol	*502.4*	0	*1000*	0	*50.2*	*32-92*	544.4	*8.02*	*40*	
Surr: 2-Fluorobiphenyl	*543*	0	*1000*	0	*54.3*	*34-98*	531.8	*2.08*	*40*	
Surr: 2-Fluorophenol	*400.6*	0	*1000*	0	*40.1*	*23-55*	380.6	*5.12*	*40*	
Surr: 4-Terphenyl-d14	*708.2*	0	*1000*	0	*70.8*	*50-111*	761.8	*7.29*	*40*	
Surr: Nitrobenzene-d5	*488.2*	0	*1000*	0	*48.8*	*32-89*	500.4	*2.47*	*40*	
Surr: Phenol-d6	*230.2*	0	*1000*	0	*23*	*10-35*	219.8	*4.62*	*40*	

The following samples were analyzed in this batch: 1707412-02A 1707412-04A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Environmental Quality Management, Inc.
Work Order: 1707412
Project: Wellsville Drum

QC BATCH REPORT

Batch ID: **R215732a** Instrument ID **VMS5** Method: **SW8260B**

MBLK Sample ID: **VBLKW2-170713-R215732a** Units: **µg/L** Analysis Date: **7/13/2017 01:16 PM**

Client ID: Run ID: **VMS5_170713A** SeqNo: **4529860** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	ND	1.0								
1,2-Dichloroethane	ND	1.0								
2-Butanone	ND	5.0								
Benzene	ND	1.0								
Carbon tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroform	ND	1.0								
Tetrachloroethene	ND	1.0								
Trichloroethene	ND	1.0								
Vinyl chloride	ND	1.0								
Surr: 1,2-Dichloroethane-d4	*20.98*	0	*20*	0	*105*	*75-120*	0			
Surr: 4-Bromofluorobenzene	*18.57*	0	*20*	0	*92.8*	*80-110*	0			
Surr: Dibromofluoromethane	*20.12*	0	*20*	0	*101*	*85-115*	0			
Surr: Toluene-d8	*19.45*	0	*20*	0	*97.2*	*85-110*	0			

LCS Sample ID: **VLCSW2-170713-R215732a** Units: **µg/L** Analysis Date: **7/13/2017 12:25 PM**

Client ID: Run ID: **VMS5_170713A** SeqNo: **4529859** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	22.35	1.0	20	0	112	70-145	0			
1,2-Dichloroethane	21.59	1.0	20	0	108	78-125	0			
2-Butanone	29.45	5.0	20	0	147	55-150	0			
Benzene	21.82	1.0	20	0	109	85-125	0			
Carbon tetrachloride	21.21	1.0	20	0	106	65-140	0			
Chlorobenzene	21.75	1.0	20	0	109	80-120	0			
Chloroform	21.42	1.0	20	0	107	80-130	0			
Tetrachloroethene	20.82	1.0	20	0	104	68-166	0			
Trichloroethene	21.8	1.0	20	0	109	84-130	0			
Vinyl chloride	19.97	1.0	20	0	99.8	50-136	0			
Surr: 1,2-Dichloroethane-d4	*20.25*	0	*20*	0	*101*	*75-120*	0			
Surr: 4-Bromofluorobenzene	*20.67*	0	*20*	0	*103*	*80-110*	0			
Surr: Dibromofluoromethane	*19.64*	0	*20*	0	*98.2*	*85-115*	0			
Surr: Toluene-d8	*20.16*	0	*20*	0	*101*	*85-110*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Environmental Quality Management, Inc.
Work Order: 1707412
Project: Wellsville Drum

QC BATCH REPORT

Batch ID: **R215732a** Instrument ID **VMS5** Method: **SW8260B**

MS Sample ID: **1707490-01A MS** Units: **µg/L** Analysis Date: **7/13/2017 09:50 PM**

Client ID: Run ID: **VMS5_170713A** SeqNo: **4531031** Prep Date: DF: **100**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	1499	100	1500	0	99.9	70-145	0			
1,2-Dichloroethane	1288	100	1500	0	85.9	78-125	0			
2-Butanone	1623	500	1500	0	108	55-150	0			
Benzene	3387	100	1500	2040	89.8	85-125	0			
Carbon tetrachloride	1311	100	1500	0	87.4	65-140	0			
Chlorobenzene	1234	100	1500	0	82.3	80-120	0			
Chloroform	1334	100	1500	0	88.9	80-130	0			
Tetrachloroethene	1222	100	1500	0	81.5	68-166	0			
Trichloroethene	1284	100	1500	0	85.6	84-130	0			
Vinyl chloride	1396	100	1500	0	93.1	50-136	0			
Surr: 1,2-Dichloroethane-d4	*1985*	0	*2000*	0	*99.2*	*75-120*	0			
Surr: 4-Bromofluorobenzene	*2035*	0	*2000*	0	*102*	*80-110*	0			
Surr: Dibromofluoromethane	*1952*	0	*2000*	0	*97.6*	*85-115*	0			
Surr: Toluene-d8	*2008*	0	*2000*	0	*100*	*85-110*	0			

MSD Sample ID: **1707490-01A MSD** Units: **µg/L** Analysis Date: **7/13/2017 10:16 PM**

Client ID: Run ID: **VMS5_170713A** SeqNo: **4531032** Prep Date: DF: **100**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	1681	100	1500	0	112	70-145	1499	11.4	30	
1,2-Dichloroethane	1534	100	1500	0	102	78-125	1288	17.4	30	
2-Butanone	2058	500	1500	0	137	55-150	1623	23.6	30	
Benzene	3693	100	1500	2040	110	85-125	3387	8.64	30	
Carbon tetrachloride	1525	100	1500	0	102	65-140	1311	15.1	30	
Chlorobenzene	1395	100	1500	0	93	80-120	1234	12.2	30	
Chloroform	1551	100	1500	0	103	80-130	1334	15	30	
Tetrachloroethene	1338	100	1500	0	89.2	68-166	1222	9.06	30	
Trichloroethene	1482	100	1500	0	98.8	84-130	1284	14.3	30	
Vinyl chloride	1559	100	1500	0	104	50-136	1396	11	30	
Surr: 1,2-Dichloroethane-d4	*2052*	0	*2000*	0	*103*	*75-120*	1985	*3.32*	*30*	
Surr: 4-Bromofluorobenzene	*2065*	0	*2000*	0	*103*	*80-110*	2035	*1.46*	*30*	
Surr: Dibromofluoromethane	*1959*	0	*2000*	0	*98*	*85-115*	1952	*0.358*	*30*	
Surr: Toluene-d8	*2028*	0	*2000*	0	*101*	*85-110*	2008	*0.991*	*30*	

The following samples were analyzed in this batch: 1707412-02A 1707412-04A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Environmental Quality Management, Inc.
Work Order: 1707412
Project: Wellsville Drum

QC BATCH REPORT

Batch ID: **104408** Instrument ID **WETCHEM** Method: **SW9045D**

LCS Sample ID: **LCS-104408-104408** Units: **s.u.** Analysis Date: **7/14/2017 10:45 AM**

Client ID: Run ID: **WETCHEM_170714B** SeqNo: **4531608** Prep Date: **7/13/2017** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	3.96	0.10	4	0	99	90-110	0			

DUP Sample ID: **1707411-01A DUP** Units: **s.u.** Analysis Date: **7/14/2017 10:45 AM**

Client ID: Run ID: **WETCHEM_170714B** SeqNo: **4531612** Prep Date: **7/13/2017** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	6.63	0.10	0	0	0	0-0	6.53	1.52	20	H

DUP Sample ID: **1707480-01A DUP** Units: **s.u.** Analysis Date: **7/14/2017 10:45 AM**

Client ID: Run ID: **WETCHEM_170714B** SeqNo: **4531618** Prep Date: **7/13/2017** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	8.14	0.10	0	0	0	0-0	7.85	3.63	20	

The following samples were analyzed in this batch: 1707412-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Environmental Quality Management, Inc.
Work Order: 1707412
Project: Wellsville Drum

QC BATCH REPORT

Batch ID: **R215691** Instrument ID **WETCHEM** Method: **SW1010A**

LCS Sample ID: **LCS-R215691-R215691** Units: **°F** Analysis Date: **7/12/2017 09:30 AM**

Client ID: Run ID: **WETCHEM_170712S** SeqNo: **4528325** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Flashpoint/Ignitability	82	1.0	81	0	101	97-103	0			

DUP Sample ID: **1707412-03A DUP** Units: **°F** Analysis Date: **7/12/2017 09:30 AM**

Client ID: **Oil & Water** Run ID: **WETCHEM_170712S** SeqNo: **4528328** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Flashpoint/Ignitability	173	1.0	0	0	0	0-0	174	0.576	10	

The following samples were analyzed in this batch: 1707412-03A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Environmental Quality Management, Inc.
Work Order: 1707412
Project: Wellsville Drum

QC BATCH REPORT

Batch ID: **R215705** Instrument ID **MOIST** Method: **SW3550C**

MBLK Sample ID: **WBLKS-R215705** Units: **% of sample** Analysis Date: **7/12/2017 11:45 AM**
Client ID: Run ID: **MOIST_170712A** SeqNo: **4528888** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	ND	0.050								

LCS Sample ID: **LCS-R215705** Units: **% of sample** Analysis Date: **7/12/2017 11:45 AM**
Client ID: Run ID: **MOIST_170712A** SeqNo: **4528887** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	100	0.050	100	0	100	99.5-100.5	0			

DUP Sample ID: **1707406-04B DUP** Units: **% of sample** Analysis Date: **7/12/2017 11:45 AM**
Client ID: Run ID: **MOIST_170712A** SeqNo: **4528876** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	15.92	0.050	0	0	0	0-0	14.5	9.34	5	R

DUP Sample ID: **1707410-02B DUP** Units: **% of sample** Analysis Date: **7/12/2017 11:45 AM**
Client ID: Run ID: **MOIST_170712A** SeqNo: **4528880** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	5.18	0.050	0	0	0	0-0	5.32	2.67	5	

The following samples were analyzed in this batch: 1707412-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Environmental Quality Management, Inc.
Work Order: 1707412
Project: Wellsville Drum

QC BATCH REPORT

Batch ID: **R215711** Instrument ID **WETCHEM** Method: **SW7.3.3.2**

MBLK Sample ID: **MB-R215711-R215711** Units: **mg/Kg** Analysis Date: **7/13/2017 10:02 AM**

Client ID: Run ID: **WETCHEM_170713A** SeqNo: **4528935** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Reactive	ND	100								

LCS Sample ID: **LCS-R215711-R215711** Units: **mg/Kg** Analysis Date: **7/13/2017 10:02 AM**

Client ID: Run ID: **WETCHEM_170713A** SeqNo: **4528936** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Reactive	124.8	100	125	0	99.8	84-112	0			

MS Sample ID: **1707273-01A MS** Units: **mg/Kg** Analysis Date: **7/13/2017 10:02 AM**

Client ID: Run ID: **WETCHEM_170713A** SeqNo: **4528940** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Reactive	234.9	100	250	0	94	84-112	0			

MSD Sample ID: **1707273-01A MSD** Units: **mg/Kg** Analysis Date: **7/13/2017 10:02 AM**

Client ID: Run ID: **WETCHEM_170713A** SeqNo: **4528941** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Reactive	249.1	100	250	0	99.6	84-112	234.9	5.86	8	

The following samples were analyzed in this batch: 1707412-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Environmental Quality Management, Inc.
Work Order: 1707412
Project: Wellsville Drum

QC BATCH REPORT

Batch ID: **R215713** Instrument ID **WETCHEM** Method: **SW7.3.4.2**

MBLK Sample ID: **MB-R215713-R215713** Units: **mg/Kg** Analysis Date: **7/13/2017 09:32 AM**

Client ID: Run ID: **WETCHEM_170713B** SeqNo: **4528980** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide, Reactive	ND	100								

LCS Sample ID: **LCS-R215713-R215713** Units: **mg/Kg** Analysis Date: **7/13/2017 09:32 AM**

Client ID: Run ID: **WETCHEM_170713B** SeqNo: **4528981** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sulfide, Reactive	1704	100	2149	0	79.3	60-120	0			

The following samples were analyzed in this batch: 1707412-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Environmental Quality Management, Inc.
Work Order: 1707412
Project: Wellsville Drum

QC BATCH REPORT

Batch ID: **R215759** Instrument ID **WETCHEM** Method: **SW1010A**

LCS Sample ID: **LCS-R215759-R215759** Units: **°F** Analysis Date: **7/13/2017 09:10 AM**

Client ID: Run ID: **WETCHEM_170713K** SeqNo: **4530098** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Flashpoint/Ignitability	83	1.0	81	0	102	97-103	0			

DUP Sample ID: **1707496-01A DUP** Units: **°F** Analysis Date: **7/13/2017 09:10 AM**

Client ID: Run ID: **WETCHEM_170713K** SeqNo: **4530104** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Flashpoint/Ignitability	ND	1.0	0	0	0	0-0	0	0	10	

The following samples were analyzed in this batch: 1707412-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Environmental Quality Management, Inc.
Work Order: 1707412
Project: Wellsville Drum

QC BATCH REPORT

Batch ID: **R215812** Instrument ID **WETCHEM** Method: **SW9077**

MBLK Sample ID: **WBLKW1-170714-R215812** Units: **wt%** Analysis Date: **7/14/2017 12:40 PM**

Client ID: Run ID: **WETCHEM_170714F** SeqNo: **4531739** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Halogens in Oil	ND	0.025								

LCS Sample ID: **WLCSW1-170714-R215812** Units: **wt%** Analysis Date: **7/14/2017 12:40 PM**

Client ID: Run ID: **WETCHEM_170714F** SeqNo: **4531740** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Halogens in Oil	0.0514	0.025	0.048	0	107	70-130	0			

The following samples were analyzed in this batch: 1707412-03A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

☐ ALS Environmental
10450 Stancliff Rd. #210
Houston, Texas 77099
(Tel) 281.530.5656
(Fax) 281.530.5887

Chain of Custody Form

Page _____ of _____

☑ ALS Environmental
3352 128th Avenue
Holland, Michigan 49424
(Tel) 616.399.6070
(Fax) 616.399.6185

ALS Project Manager: Bill Carey | ALS Work Order #: 1707412

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	Wellsville Drum	A	TCLP VOA, SVOA, Metals
Work Order		Project Number	30325.0035	B	PCB
Company Name	EQM	Bill To Company	EQM	C	ph
Send Report To	adragotta@eqm.com	Invoice Attn.	Angye Dragotta	D	flashpoint
Address	1800 Carillon Blvd	Address	1800 Carillon Blvd	E	TOX
				F	Reactive sulfide and cyanide
City/State/Zip	Cincinnati Ohio 45240	City/State/Zip	Cincinnati Ohio 45240	G	Total VOA, SVOA, Metals
Phone	513-825-7500	Phone		H	
Fax		Fax		I	
e-Mail Address				J	

No.	Sample Description	Date	Time	Matrix	Pres. Key Numbers	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	Solids	7/10/2017	5:00 PM	Solid	NA	1	X	X	X	X		X					
2	Oil & Water (Test top layer only)	7/10/2017	5:00 PM	Liquid	N/A	1	X	X		X	X						
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s): Please Print & Sign: Gary Acquaro

Shipment Method: Fed Ex

Required Turnaround Time: (Check Box) ☐ 10 Wk Days ☐ 5 Wk Days ☑ 3 Wk Days ☐ 2 Wk Days ☐ 24 Hour ☐ Other _____

Results Due Date

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
	7-18-17	5:00	FedEx		
FedEx	7/11/17	0930			
Logged by (Laboratory): Kev	7/11/17	1545	Checked by (Laboratory):		

Notes: Email results to: gacquaro@eqm.com

ALS Cooler ID	Cooler Temp
SR2	15.0°C

QC Package: (Check Box Below)
☑ Level II: Standard QC ☐ Level III: Raw Data
☐ TRRP LRC ☐ TRRP Level IV
☐ Level IV: SW846 Methods/CLP like
☐ Other: _____

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C

Note: Any changes must be made in writing once samples and COC Form have been submitted to ALS.

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Sample Receipt Checklist

Client Name: **EQM - CINCINNATI** Date/Time Received: **11-Jul-17 09:30**

Work Order: **1707412** Received by: **KRW**

Checklist completed by Keith Wierenga (eSignature) 11-Jul-17 (Date) Reviewed by: (eSignature) (Date)

Matrices: Solid & Liquid
Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Sample(s) received on ice?	Yes ☐	No ☑	
Temperature(s)/Thermometer(s):	15.0/15.0 C	SR2	
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	7/11/2017 4:08:07 PM		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☑	N/A ☐
pH adjusted by:	-		

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction: