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www.erm.com

3 December 2019

Justin Starr, P.G.
Remedial Bureau C
Division of Environmental Remediation
New York State Department of Environmental Conservation
625 Broadway
Albany, NY 12233-7014

Reference: Former Macbeth Kollmorgen Facility, NYSDEC Site No. 3-36-037

Subject: MW-12 Quarterly Monitoring – Fourth Quarter 2019

Dear Mr. Starr:

In accordance with the monitoring requirements outlined for the above referenced site in the March 1997 Record of Decision (ROD) and subsequently modified during the September 14, 2001 conference call with Mr. John Rashak (NYSDEC) and H2M, bedrock monitoring well MW-12 was sampled on 22 October 2019 by ERM at the request of Fortive. After gauging water levels at the 15 on-site monitoring wells, MW-12 was purged and sampled via low-flow sampling methodology. MW-1 was damaged but a water level was able to be collected prior to abandonment. A request for the abandonment of MW-1 was approved by the NYSDEC on 4 January 2019. ERM mobilized a licensed well driller to abandon MW-1 in place on 24 October 2019 in accordance with NYSDEC CP-43: Groundwater Monitoring Well Decommissioning Policy. Groundwater elevations and contour maps will be presented in the 2019 Periodic Review Report (PRR).

SGS Accutest Laboratories (NYSDOH ID # 10983) analyzed the sample for volatile organic compounds using United States Environmental Protection Agency (EPA) Method SW-846 8260C.

The fourth quarter 2019 analytical results indicate that trichloroethene (TCE) and total 1,2-dichloroethene (total 1,2-DCE) were detected at concentrations above the New York State Groundwater Quality Standards (NYSGQS). These concentrations (summarized on the following table) are consistent with results from the four previous quarters.

MW-12 Groundwater Sampling Summary									
Compound	10/22/19	NYSGQS							
TCE	42.4	86.7	92.3	82.3	87.0	5			
Total 1,2-DCE	51.0	184.6	172.3	203.5	193.99	5			

Notes: **Bold** = exceeds NYSGQS

Results reported in micrograms per liter (µg/L)



3 December 2019

Reference: Former Macbeth
Kollmorgen Facility, NYSDEC Site

No. 3-36-037 Page 2 of 2

The full laboratory analytical report for the October 2019 sampling event is attached. An EQuIS Electronic Data Deliverable (EDD) will be sent to the NYSDEC prior to submittal of the next PRR.

If you have any questions, please call me at (631) 756-8960.

Yours sincerely,

Karen Pickering

Karen-Ricking

Senior Project Manager

Enclosure: SGS Laboratories Analytical Report for MW-12

cc: David Bozaan, Fortive Corporation

Ernie Rossano, ERM Joe Robb, ERM



Dayton, NJ 11/15/19

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report



ERM, Inc.

Fortive, New Windsor, NY

0501429

SGS Job Number: JC97309

Sampling Date: 10/22/19

Report to:

ERM, Inc.

karen.pickering@erm.com

ATTN: Karen Pickering

Total number of pages in report: 11



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Laura Degenhardt General Manager

Client Service contact: Tammy McCloskey 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (ANAB L2248)

This report shall not be reproduced, except in its entirety, without the written approval of SGS. Test results relate only to samples analyzed.

SGS North America Inc. • 2235 Route 130 • Dayton, NJ 08810 • tel: 732-329-0200 • fax: 732-329-3499

SGS

Sections:

Table of Contents

-1-

Section 1: Sample Summary	3
Section 2: Case Narrative/Conformance Summary	4
Section 3: Summary of Hits	5
Section 4: Sample Results	6
4.1: JC97309-1: MW-12-102219	7
Section 5: Misc. Forms	9
5.1: Chain of Custody	10





Sample Summary

ERM, Inc.

Job No: JC97309

Fortive, New Windsor, NY Project No: 0501429

Sample Collected Matrix Client
Number Date Time By Received Code Type Sample ID

This report contains results reported as ND = Not detected. The following applies:

Organics ND = Not detected above the MDL

JC97309-1 10/22/19 09:30 DD 10/23/19 AQ Ground Water MW-12-102219

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: ERM, Inc. Job No JC97309

Site: Fortive, New Windsor, NY Report Date 11/7/2019 2:40:08 PM

On 10/23/2019, 1 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 4.2 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JC97309 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

MS Volatiles By Method SW846 8260C

Matrix: AQ Batch ID: V3B7043

- The data for SW846 8260C meets quality control requirements.
- JC97309-1: Confirmation run.

Matrix: AQ Batch ID: V3B7051

- Sample(s) JC97809-10DUP, JC97809-9MS were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- JC97309-1: Sample analyzed outside the holding time.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS North America Inc indicated via signature on the report cover

Thursday, November 07, 2019

Summary of Hits Job Number: JC97309

Job Number: JC97309 **Account:** ERM, Inc.

Project: Fortive, New Windsor, NY

Collected: 10/22/19

Lab Sample ID Client Sample II Analyte	Result/ Qual	RL	MDL	Units	Method
JC97309-1 MW-12-102219					
1,1-Dichloroethene ^a	0.59 J	1.0	0.59	ug/l	SW846 8260C
cis-1,2-Dichloroethene ^a	193	1.0	0.51	ug/l	SW846 8260C
trans-1,2-Dichloroethene ^a	0.99 J	1.0	0.54	ug/l	SW846 8260C
Trichloroethene ^a	87.0	1.0	0.53	ug/l	SW846 8260C
Vinyl chloride ^a	1.8	1.0	0.79	ug/l	SW846 8260C

⁽a) Sample analyzed outside the holding time.





Dayton, NJ

Section 4

Sample Results	
Report of Analysis	

Page 1 of 2

Report of Analysis

Client Sample ID: MW-12-102219

 Lab Sample ID:
 JC97309-1
 Date Sampled:
 10/22/19

 Matrix:
 AQ - Ground Water
 Date Received:
 10/23/19

 Method:
 SW846 8260C
 Percent Solids:
 n/a

Project: Fortive, New Windsor, NY

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 a	3B156759.D	1	11/06/19 12:06	JP	n/a	n/a	V3B7051
Run #2 b	3B156624.D	5	10/31/19 11:11	JP	n/a	n/a	V3B7043

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	6.0	ug/l	
71-43-2	Benzene	ND	0.50	0.43	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.48	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.58	ug/l	
75-25-2	Bromoform	ND	1.0	0.63	ug/l	
74-83-9	Bromomethane	ND	2.0	1.6	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	6.9	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.95	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.56	ug/l	
75-00-3	Chloroethane	ND	1.0	0.73	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane ^c	ND	1.0	0.76	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.78	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	1.2	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.56	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.48	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.4	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	0.59	1.0	0.59	ug/l	J
156-59-2	cis-1,2-Dichloroethene	193	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	0.99	1.0	0.54	ug/l	J
78-87-5	1,2-Dichloropropane	ND	1.0	0.51	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.43	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
76-13-1	Freon 113	ND	5.0	1.9	ug/l	
591-78-6	2-Hexanone	ND	5.0	2.0	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Page 2 of 2

Date Sampled: 10/22/19

Date Received: 10/23/19

Percent Solids: n/a

Report of Analysis

Client Sample ID: MW-12-102219 Lab Sample ID: JC97309-1

Matrix: AQ - Ground Water Method: SW846 8260C

Project: Fortive, New Windsor, NY

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	1.0	0.65	ug/l	
79-20-9	Methyl Acetate	ND	5.0	0.80	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.60	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.9	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.70	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.65	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.90	ug/l	
108-88-3	Toluene	ND	1.0	0.53	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	87.0	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.84	ug/l	
75-01-4	Vinyl chloride	1.8	1.0	0.79	ug/l	
	m,p-Xylene	ND	1.0	0.78	ug/l	
95-47-6	o-Xylene	ND	1.0	0.59	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.59	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limi	its	
1868-53-7	Dibromofluoromethane	96%	99%	80-12	20%	
17060-07-0	1,2-Dichloroethane-D4	94%	115%	81-12	24%	
2037-26-5	Toluene-D8	99%	98%	80-12	20%	
460-00-4	4-Bromofluorobenzene	93%	92%	80-12	20%	

- (a) Sample analyzed outside the holding time.
- (b) Confirmation run.
- (c) Associated CCV outside of control limits low.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



Misc. Forms

Dayton, NJ

Custody Documents and Other Forms

Includes the following where applicable:

• Chain of Custody

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EHSA-QAC-0023-02-FORM-Dayton - Standard COC.xts

JC97309: Chain of Custody

Page 1 of 2

SGS Sample Receipt Summary

Job Number: JC97309 Client	Project: FORTIVE, NEW V	VINDSOR, NY								
Date / Time Received: 10/23/2019 5:15:00 PM	Delivery Method:	Airbill #'s:								
Cooler Temps (Raw Measured) °C: Cooler 1: (4.4); Cooler Temps (Corrected) °C: Cooler 1: (4.2);										
1. Custouy Seals Fleselli.	Y or N Present: ☑ □ tes/Time OK ☑ □	Sample Integrity - Documentation 1. Sample labels present on bottles: 2. Container labeling complete: 3. Sample container label / COC agree: Sample Integrity - Condition 1. Sample recvd within HT: 2. All containers accounted for:	Y or N V							
Quality Control Preservation 1. Trip Blank present / cooler: 2. Trip Blank listed on COC: 3. Samples preserved properly: 4. VOCs headspace free:		3. Condition of sample: Sample Integrity - Instructions 1. Analysis requested is clear: 2. Bottles received for unspecified tests 3. Sufficient volume recvd for analysis: 4. Compositing instructions clear: 5. Filtering instructions clear:	Intact							
Test Strip Lot #s: pH 1-12:229517	pH 12+:	208717 Other: (Specify)								
Comments										

SM089-03 Rev. Date 12/7/17

JC97309: Chain of Custody

Page 2 of 2