ERM

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Melville, New York 11747

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2 September 2021

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 Annual Monitoring – 2021

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 3 August 2021 by ERM at the request of Fortive. After gauging water levels at the 14 on-site monitoring wells, MW-12 was purged and sampled via low-flow sampling methodology. Groundwater elevations and contour maps will be presented in the 2022 Periodic Review Report (PRR).

SGS Accutest Laboratories (NYSDOH ID # 10983) analyzed the MW-12 groundwater sample for volatile organic compounds using United States Environmental Protection Agency (EPA) Method SW-846 8260C.

The 2021 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	4/24/19	7/11/19	10/22/19	01/30/20	08/03/21	NYSGQS
TCE	**92.3**	**82.3**	**87.0**	**74.3**	**92.4**	5
Total 1,2-DCE	**172.3**	**203.5**	**193.99**	**163.91**	**189.0**	5
	Notes: **Bold** = exceeds NYSGQS Results reported in micrograms per liter (µg/L)					

The full laboratory analytical report for the August 2021 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
Senior Project Manager

Enclosure: SGS Laboratories Analytical Report for MW-12

cc: David Bozaan, Fortive Corporation
Ernie Rossano, ERM
Joe Robb, ERM

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

e-Hardcopy 2.0
Automated Report

Technical Report for

ERM, Inc.

Fortive, New Windsor, NY

0501429

SGS Job Number: JD29353

Sampling Date: 08/03/21

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.

Mike Earp
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)

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Sample Summary

ERM, Inc.

Job No: JD29353

Fortive, New Windsor, NY
Project No: 0501429

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
JD29353-1	08/03/21	11:00	JE	08/03/21	AQ	Ground Water	MW-12-080321

This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the MDL

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	ERM, Inc.	**Job No:**	JD29353
Site:	Fortive, New Windsor, NY	**Report Date**	8/12/2021 11:57:08 A

On 08/03/2021, 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 3.7 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JD29353 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 8260D

Matrix: AQ **Batch ID:** V2V3281

- All samples were analyzed within the recommended method holding time.
- Sample(s) JD29490-1MS, JD29490-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Matrix: AQ **Batch ID:** VX8332

- All samples were analyzed within the recommended method holding time.
- Sample(s) JD29528-3MS, JD29528-3MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- VX8332-BS for Acetone: High percent recovery and no associated positive reported in the QC batch.
- JD29353-1 for 1,2,3-Trichlorobenzene: Associated CCV outside of control limits low.
- JD29353-1 for Acetone: This compound in blank spike is outside in house QC limits bias high.

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

Summary of Hits

Job Number: JD29353
Account: ERM, Inc.
Project: Fortive, New Windsor, NY
Collected: 08/03/21

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD29353-1	**MW-12-080321**					
1,1-Dichloroethene		0.63 J	1.0	0.59	ug/l	SW846 8260D
cis-1,2-Dichloroethene		189	5.0	2.5	ug/l	SW846 8260D
trans-1,2-Dichloroethene		2.1	1.0	0.54	ug/l	SW846 8260D
Trichloroethene		92.4	1.0	0.53	ug/l	SW846 8260D
Vinyl chloride		3.3	1.0	0.79	ug/l	SW846 8260D

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: MW-12-080321
Lab Sample ID: JD29353-1
Matrix: AQ - Ground Water
Method: SW846 8260D
Project: Fortive, New Windsor, NY

Date Sampled: 08/03/21
Date Received: 08/03/21
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X192276.D	1	08/10/21 00:36	BK	n/a	n/a	VX8332
Run #2	2V79443.D	5	08/11/21 16:51	BK	n/a	n/a	V2V3281

	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 [a]	ND	10	3.1	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	0.45	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	0.46	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	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	0.53	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	0.56	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	0.63	1.0	0.59	ug/l	J
156-59-2	cis-1,2-Dichloroethene	189 [b]	5.0	2.5	ug/l	
156-60-5	trans-1,2-Dichloroethene	2.1	1.0	0.54	ug/l	
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	0.58	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

Report of Analysis

Client Sample ID:	MW-12-080321		
Lab Sample ID:	JD29353-1	**Date Sampled:**	08/03/21
Matrix:	AQ - Ground Water	**Date Received:**	08/03/21
Method:	SW846 8260D	**Percent Solids:**	n/a
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	0.49	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 [c]	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	92.4	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.40	ug/l	
75-01-4	Vinyl chloride	3.3	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	Limits
1868-53-7	Dibromofluoromethane	101%	93%	85-118%
17060-07-0	1,2-Dichloroethane-D4	96%	101%	80-121%
2037-26-5	Toluene-D8	93%	100%	80-120%
460-00-4	4-Bromofluorobenzene	90%	102%	80-120%

(a) This compound in blank spike is outside in house QC limits bias high.
(b) Result is from Run# 2
(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

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

SGS

GW

CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.sgs.com/ehsusa

EHSA-QAC-0023-02-FORM-Standard COC

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FED-EX Tracking #	Bottle Order Control # NONE
SGS Quote #	SGS Job # JD29353

Client / Reporting Information

- Company Name: ERM
- Street Address: 105 Maxess Rd Ste 316
- City: Melville State: NY Zip: 11747
- Project Contact: Karen Pickering E-mail: Karen.Pickering@erm.com
- Phone #: 631 756 8900
- Sampler(s) Name(s): J. Edmonds Phone #:

Project Information

- Project Name: Fortive - New Windsor
- Street: 617 Little Britain Rd
- City: New Windsor State: NY
- Project #: 0501429
- Client Purchase Order #:
- Project Manager: Karen Pickering

Billing Information (if different from Report to)

- Company Name:
- Street Address:
- City: State: Zip:
- Attention:

Requested Analysis: V8260 TCL 20

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB - Field Blank; EB-Equipment Blank; RB - Rinse Blank; TB - Trip Blank

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Grab (G) Comp (C)	Matrix	# of bottles	HCl	NaOH	HNO_3	H_2SO_4	NONE	DI Water	MEOH	ENCORE	V8260 TCL 20	LAB USE ONLY
1	MW-12-080321		8/3/21	1100	JE	G	GW	3	3								X	V23

Turn Around Time (Business Days)

Approved By (SGS PM): / Date:

- [x] 10 Business Days
- [ ] 5 Business Days — INITIAL ASSESSMENT TS 2D
- [ ] 3 Business Days*
- [ ] 2 Business Days* — LABEL VERIFICATION
- [ ] 1 Business Day*
- [ ] Other

All data available via Lablink

* Approval needed for 1-3 Business Day TAT

Deliverable

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] NJ Reduced (Level 3)
- [ ] Full Tier I (Level 4)
- [ ] Commercial "C"
- [ ] NJ DKQP
- [ ] NYASP Category A
- [x] NYASP Category B
- [ ] MA MCP Criteria
- [ ] CT RCP Criteria
- [ ] State Forms
- [ ] EDD Format
- [ ] DOD-QSM5

Commercial "A" = Results only; Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

Comments / Special Instructions

Do not use barcode on bottle label

http://www.sgs.com/en/terms-and-conditions

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by:	Date / Time:	Received By:	Relinquished By:	Date / Time:	Received By:
1 [signature]	8/3/21 1340	1 Joseph Acheampong	2 Joseph Acheampong	8/3/21 1840	2 Jeemit Patel
3		3	4		4
5		5	Custody Seal # ☐ Intact ☐ Not intact	Preserved where applicable ☐ Absent	On Ice ☑ Therm. ID: Cooler Temp. °C 3.7°

JD29353: Chain of Custody
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5.1

5

SGS Sample Receipt Summary

Job Number: JD29353 **Client:** ERM **Project:** FORTIRE- NEW WINDSOR

Date / Time Received: 8/3/2021 6:40:00 PM **Delivery Method:** **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 1: (3.7);

Cooler Temps (Corrected) °C: Cooler 1: (3.7);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:			
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☑	☐
2. Trip Blank listed on COC:	☐		☑	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
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:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 212820 pH 12+: 203117A Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

JD29353: Chain of Custody
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