

105 Maxess Road, Suite 316 Melville, New York 11747 Telephone: +1 631 759 8900 Fax: +1 631 756 8901

www.erm.com

10 July 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 – First 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 19 March 2019 by ERM at the request of Fortive. After gauging water levels at 14 of the 15 on-site monitoring wells, MW-12 was purged and sampled via low-flow sampling methodology. MW-1 has been damaged but a water level was able to be collected. A request for the abandonment of MW-1 has been approved by the NYSDEC. ERM anticipates MW-1 will be abandoned in 2019. ERM could not locate monitoring well MW-16R during the quarterly monitoring event. 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 first 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	1/23/18	4/11/18	7/18/18	10/17/18	3/19/19	NYSGQS						
TCE	65.1	62.1	59.7	42.4	86.7	5						
Total 1,2-DCE	136.1	179.3	124.5	51.0	184.6	5						

Notes: **Bold** = exceeds NYSGQS

Results reported in micrograms per liter(µg/L)

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



10 July 2019

Reference: Former Macbeth
Kollmorgen Facility, NYSDEC Site

No. 3-36-037 Page 2 of 2

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

Yours sincerely,

Karen Pickering

Senior Project Manager

Karenficking

Enclosure: SGS Laboratories Analytical Report for MW-12

cc: David Bozaan, Fortive Corporation

Ernie Rossano, ERM Joe Robb, ERM



Dayton, NJ 04/16/19

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: JC84837

**Sampling Date: 03/19/19** 

Report to:

ERM, Inc.

brice.lynch@erm.com

**ATTN: Brice Lynch** 

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.

Brian McGuire 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-

3
4
5
6
7
9
10



## **Sample Summary**

ERM, Inc.

**Job No:** JC84837

Fortive, New Windsor, NY Project No: 0501429

Sample	Collected	l	Matrix		Client			
Number	Date	Time By	Received Code Type		Sample ID			
JC84837-1	03/19/19	14:40 MF	03/20/19	AQ	Ground Water		MW-12-031919	

#### CASE NARRATIVE / CONFORMANCE SUMMARY

Client: ERM, Inc. Job No JC84837

Site: Fortive, New Windsor, NY Report Date 4/3/2019 4:11:09 PM

On 03/20/2019, 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 0.3 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JC84837 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

Wednesday, April 03, 2019

Matrix: AQ Batch ID: V2E6704

- All samples were analyzed within the recommended method holding time.
- Sample(s) JC85056-8MS, JC85056-9DUP were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

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:** JC84837

Account: ERM, Inc.

**Project:** Fortive, New Windsor, NY

Collected: 03/19/19

Lab Sample ID Client Sample ID Analyte	Result/ Qual	RL	MDL	Units	Method
JC84837-1 MW-12-031919					
cis-1,2-Dichloroethene trans-1,2-Dichloroethene Trichloroethene	182 2.6 86.7	1.0 1.0 1.0	0.51 0.54 0.53	ug/l ug/l ug/l	SW846 8260C SW846 8260C SW846 8260C





## Dayton, NJ

## Section 4

Sample Results		
Report of Analysis		

Page 1 of 2

## **Report of Analysis**

Client Sample ID: MW-12-031919

 Lab Sample ID:
 JC84837-1
 Date Sampled:
 03/19/19

 Matrix:
 AQ - Ground Water
 Date Received:
 03/20/19

 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 2E151496.D 1 03/26/19 15:14 ED n/a n/a V2E6704
Run #2

Purge Volume Run #1 5.0 ml

Run #2

#### **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	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	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	182	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	2.6	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	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

### 4

## **Report of Analysis**

Client Sample ID: MW-12-031919

 Lab Sample ID:
 JC84837-1
 Date Sampled:
 03/19/19

 Matrix:
 AQ - Ground Water
 Date Received:
 03/20/19

 Method:
 SW846 8260C
 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	0.70	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	86.7	1.0	0.53	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.84	ug/l	
75-01-4	Vinyl chloride	ND	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.	<b>Surrogate Recoveries</b>	Run# 1	Run# 2	Limi	its	
1868-53-7	Dibromofluoromethane	101%		80-12	20%	
17060-07-0	1,2-Dichloroethane-D4	93%		81-12	24%	
2037-26-5	Toluene-D8	106%		80-12	20%	
460-00-4	4-Bromofluorobenzene	99%		80-12	20%	

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





Dayton, NJ

Custody Documents and Other Forms

Includes the following where applicable:

• Chain of Custody

SGS	6	W	SG	AIN SS Nort 235 Rou	h Am	erica l	nc D	aytor	-				F	ED-EX T	racking #					Bottle Order	_	je	of	_	-	7	
				32-329-0	0200		32-329-		480				Si	GS Quol	0 #				7	SGS Job#		50	8	42	37	_	
Client / Reporting Information			Projec	t Inform		com/e	isusa										R	equest	d An	lysis			_	İ	Matrix Code	s	
ompany Name:  ERM reet Address	FoR1	TIVE	. 0.1																					GV	/ - Drinking Wi V - Ground Wi WW - Water / - Surface Wi	ater	
by State Zip	\$17L1		State	Billing In Company	formatic Name	on (if diffe	rent from	Report	to)				$\dashv$	ı					İ	- 1					SO - Soil SL- Sludge		
TELVILLE MY 11747  Tolect Contact E-mail	NEW W	INDSOR	MY	Street Ad									_	0				1	1		-		1		SED-Sedimen OI - Oil	.	
roject Contact  LAREN_ PICKERINFEERM. CCM  CS1-756-8900  Ampler(s) Name(s)  Phone #	O S CI Client Purchas	429 e Order#		City	uress			- 5	State			Zip	$\dashv$	TC 12										s	Q - Other Liqu AIR - Air OL - Other So WP - Wipe FB - Field Blan	lid	
6 51- 4 3 6 8 1 100  ampler(s) Name(s) Phone #  M. F(1 ANKEL 377527-069)	Project Manag	er Pickel	lina	Attention:				_						2 60										EB R	-Equipment Bi B - Rinse Blan TB - Trip Blan	lank nk	
sas emple # Field ID / Point of Callection	MEOH/DI Viel#	Date	Collection	Sampled	Grab (G) Comp (C)	Matrix	# of bottles	₽	Т	r of pres	DI Water	WEOH HODI		<u>چ</u>											AB USE ON	LY	
1 mw-12-031919		3/11/19	1440	MF	Ġ	GW	3	3	1		1		1	X					_]	_		_	_	1			
			<u> </u>		_			14	4	$\sqcup$	$\perp$	Н	#	_	-	_	_	-	_	$\rightarrow$	_	+	+	+		_	
		-			_	ļ	<u> </u>	$\vdash$	+	₩	+-	H	++		$\dashv$			$\rightarrow$	-		-+	-+	-	+		_	
		·			-			₩	+	++	+	+	Н			-+	-	-	$\dashv$	-+	-		+	+	150	di	
									-	H	+-	H	H				_	_				_	_	X	V 6	<b>6</b> 7/	
					-			++	+	+	+	H	++	-		_	- †	_	$\neg$	$\dashv$	+	-+	+	*			
					-			H	+	H	+	H	++	$\neg$	$\neg$			-	_	$\dashv$	$\dashv$	+	+	-		$\dashv$	
	-			-		_		$\vdash$	+	+	+	H	+	-		-	_	_	-	-+	-	_	+	+		_	
			<b>-</b>			-		+	+	H	+-	H	++	_	$\neg$	_	$\dashv$			-	$\dashv$	+	+	+			
								Н	+	++	+	H	+					_					$^{+}$	$\top$			
								H	+	+	+	++	++	$\dashv$		-				-	-	_	+	-		_	
Turn Around Time (Bu	siness Days)				l					eliver	able		1 1								Comm	ents / Sp	pecial	Instruc	tions		
	Approved By (S	GS PM): / Date:				mercial "A		-		_		Catego				DOD-QS	SM5										
10 Business Days		_			•	nercial "E		!)		_		ategor								MT.	ΔΙΛ	SECO	SAAE	NT	300	$\dashv$	
5 Business Days 3 Business Days*				-		iduced (L ier I (Lev			F	_		Criteri	_								/IL /	OLOC	JIVIE	.141		-	
2 Business Days*					•	nercial "C			7	_	te For			_						ARF	ı vı	RIFIC	CAT	ION			
1 Business Day'					•	KQP				ED	D Fort	mat								LAGE	- 71					-	
Other	roval needed fo		TAT				mercial "/								Summary	у				http	· //www.	u eae oo	m/an/	terme-s	ind-conditio	ne l	
		Sample	Sustody m	nust be of	pcumen		ommerci w each ti								ourier o	delivery.				mtp	rwwy	v.aus.00	iii/en/	2	na-congitic		_
Belinquishedby: Date / Tim	A 1120	Received By: V	hrie						ished E	III	m		L	Г		1	Zula	19,	830	Received I	By:	-		7			
Relinquished by: Date / Tim		Received By:	-,,	, J4	m			Relinqu		y:			/ 100	~/			Date / Tin		-	Received	B	_		_			
Relinquished by: Date / Time	10:	Received By:						Custod	y Seal i	153	100		<b>A</b>	ntact kot intact	1	Preserved	where a		harm 15			On Ice		Cooler Te	mp. °c /, 3	CIT	•
j		10									_		_ 1	ot intact		Absent			herm. ID						-110		

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

JC84837: Chain of Custody

Page 1 of 2

#### **SGS Sample Receipt Summary**

<del></del>		t: ERM, INC	ORPORATED	VINDSO	R, NY							
Date / Time Received:	3/20/2019 6	:30:00 PM	Delivery N	Method:	Airbill #'s:							
Cooler Temps (Raw Mea	•	•	•									
Cooler Security  1. Custody Seals Present: 2. Custody Seals Intact:  Cooler Temperature  1. Temp criteria achieved: 2. Cooler temp verification 3. Cooler media: 4. No. Coolers:  Quality Control Preserved 1. Trip Blank present / cool 2. Trip Blank listed on COol 3. Samples preserved proj 4. VOCs headspace free:	vation Y ler:	3. COC 4. Smpl Di 0r N  IR Gun ce (Bag) 1  0r N  V  [ ]	Present: ates/Time OK	Y or N  G	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: 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:	Y  Y  Y  Y  Y  O  O  O  O  O  O  O  O  O		 N/A ☑				
Test Strip Lot #s:	pH 1-12:	206717	·	pH 12+:	208717 Other: (Specify)							
Comments  SM089-03 Rev. Date 12/7/17												

Nov. Bato (Emm.)

JC84837: Chain of Custody

Page 2 of 2