April 2, 2015 Project No. 1406182A

Paul Knoerr
Environmental Quality Analyst/Geologist
Department of Environmental Quality
Grand Rapids District
350 Ottawa, NW
Grand Rapids, Michigan 49503

RE: 2014 ANNUAL GROUNDWATER/SURFACE WATER MONITORING REPORT
FORMER WHITE CONSOLIDATED INDUSTRIES – BELDING SITE
100 EAST MAIN STREET, BELDING, MICHIGAN

Dear Mr. Knoerr:

As authorized by Electrolux, Golder Associates Inc. (Golder) completed the 2014 annual groundwater/surface water monitoring event for the former White Consolidated Industries (WCI) Belding site (the "Site") on October 9 and 10, 2014. The Site is located at 100 East Main Street in Belding, Ionia County, Michigan (Figure 1). The findings of the 2014 annual groundwater/surface water monitoring event are presented in this report.

BACKGROUND

Annual groundwater/surface water monitoring has been conducted since 1999 in accordance with an approved monitoring plan and subsequent correspondence from the Michigan Department of Environmental Quality (MDEQ).

2014 ANNUAL GROUNDWATER/SURFACE WATER MONITORING EVENT

The groundwater monitoring network at the Site currently consists of 14 monitoring wells and three piezometers. Figure 2 shows the groundwater monitoring well and piezometer locations. The majority of the wells comprising the monitoring network are located at the groundwater-surface water interface (GSI) along the Flat River.

The top-of-casing (TOC) elevations of some monitoring wells and piezometers were altered following placement of the soil cover on the site; casings for several flush-mount wells and piezometers were raised to bring the TOCs to the elevation of the soil cover. Therefore, it was not possible to create a potentiometric surface showing groundwater flow direction using the 2014 water level survey data. The groundwater contour maps presented in previous annual reports have consistently shown that the direction of groundwater flow is northeast toward the Flat River. Prior to the 2015 annual monitoring event, the TOC elevations for well/piezometer casings that were altered will be resurveyed.

Golder collected groundwater samples from 14 monitoring wells and two surface water samples from the Flat River at locations SW1 and SW2 (Figure 2). The groundwater and surface water samples were collected in accordance with sampling procedures that comply with MDEQ's Remediation and Redevelopment Division Operational Memorandum No. 2 (RRD OM2 - Attachment 5). Golder also collected QA/QC samples in accordance with RRD OM2. A total of 18 samples (including a field duplicate and trip blank) were submitted to TriMatrix Laboratories, Inc. located in Grand Rapids, Michigan for analysis of volatile organic compounds (VOCs).

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RESULTS

The 2014 groundwater and surface water analytical results are summarized on Table 1 along with historical groundwater and surface water quality data from 2008 through 2013. All of the analytical results meet the generic or mixing zone-based GSI criteria established by MDEQ for the Site, and no VOCs were detected in surface water of the Flat River adjacent to the Site.

CLOSING

Please contact Brad Johnson (517-318-3250) if you have any questions regarding this groundwater monitoring report for the former WCI site in Belding, Michigan.

GOLDER ASSOCIATES INC.

Bradley S. Johnson, Ph.D.
Senior Consultant

for:
Alistair Macdonald, CPG, LSP
Senior Consultant and Principal

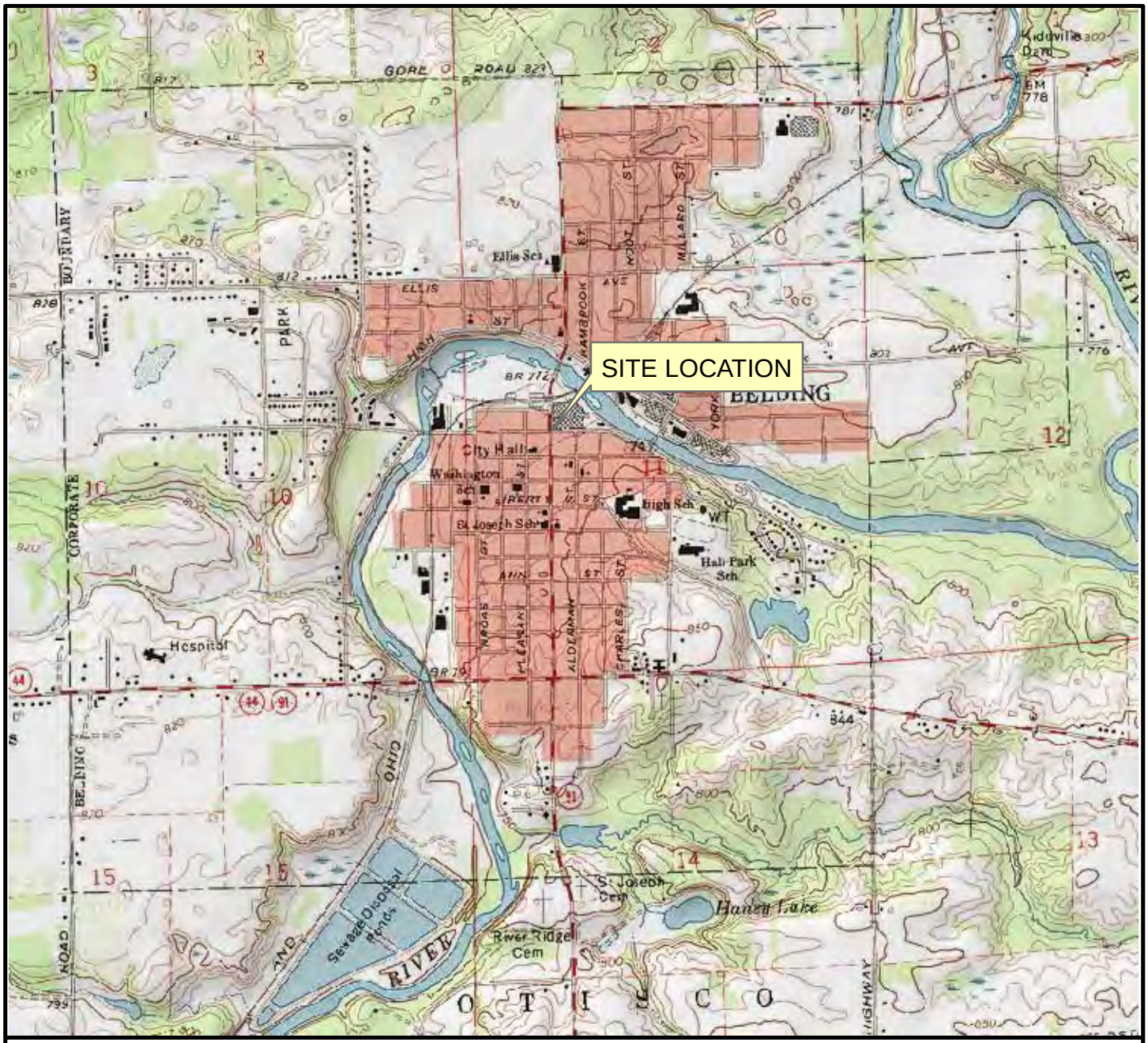
Attachments:

Figure 1	Site Location Map
Figure 2	Piezometer and Monitoring Well locations
Table 1	Summary of Groundwater and Surface Water Analytical Results
Attachment A	TriMatrix Laboratories, Inc. Analytical Report

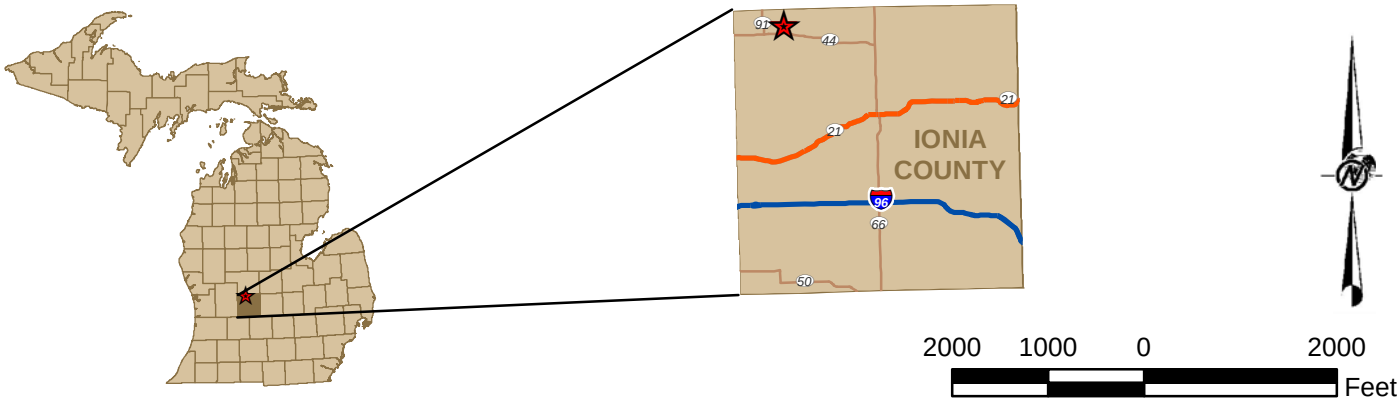
cc: Andrew Stienecker – Electrolux North America, Inc.
Doug Arnold, Esq. – Alston & Bird LLP
Douglas J. Ucci – Quantum Management Group, Inc.

BSJ/APTM/DJU/bsj

FIGURES



REFERENCE: U.S. GEOLOGIC SURVEY 7.5 MINUTE BELDING, MI TOPOGRAPHIC QUADRANGLE MAP, 1972.



Golder Associates
Michigan

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SITE LOCATION MAP

FORMER WHITE CONSOLIDATED INDUSTRIES - BELDING SITE
100 E. MAIN STREET
BELDING, IONIA COUNTY, MICHIGAN

2014 ANNUAL GROUNDWATER MONITORING REPORT

FIGURE 1

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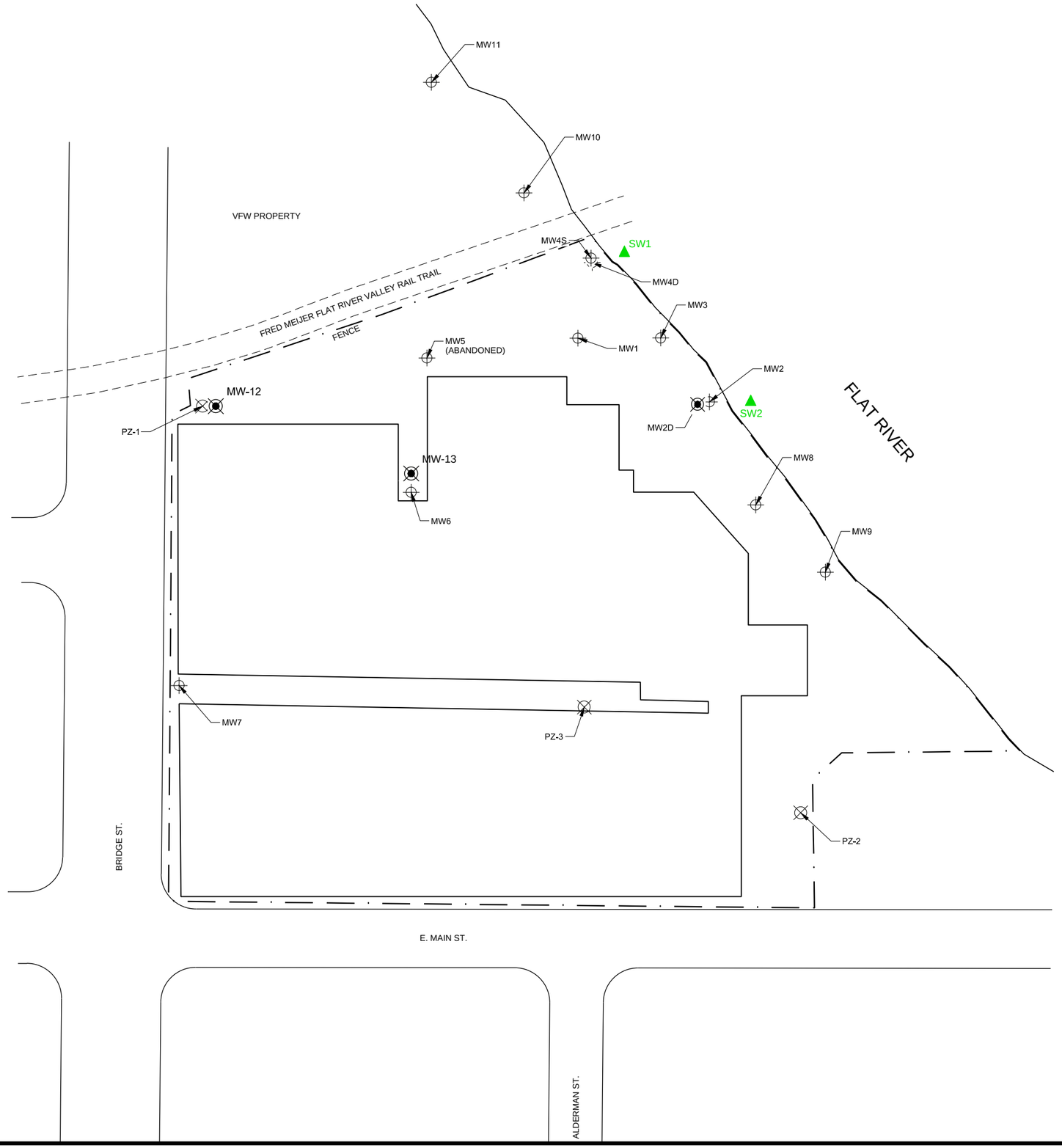

LEGEND

	PROPERTY BOUNDARY
	FORMER RAILROAD TRACK
MW1	MONITORING WELL
PZ-1	PIEZOMETER
SW1	SURFACE WATER SAMPLE LOCATION
MW-12	DEEP BORING/MONITORING WELL

NOTES

1. BASE DRAWING ADAPTED FROM "MONITOR WELL & PIEZOMETER LOCATIONS," PREPARED BY GOWER PROFESSIONAL SERVEYING, P.C., DATED 3/12/2013.

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SCALE FEET

PROJECT
ELECTROLUX
FORMER WHITE CONSOLIDATED INDUSTRIES
BELDING, MICHIGAN

TITLE
PIEZOMETER AND MONITORING WELL LOCATIONS

Golder Associates

PROJECT No.		1406182A	FILE No.	1406182A_A000
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TABLE 1

TABLE 1: SUMMARY OF GROUNDWATER AND SURFACE WATER ANALYTICAL RESULTS
FORMER WHITE CONSOLIDATED INDUSTRIES - BELDING SITE
(2008 - 2014)

Parameter	GSI[1]	units	MW1 7/15/08	MW1 5/6/09	MW1 10/25/10	MW1 8/18/11	MW1 11/5/12	MW1 9/25/13	MW1 10/9/14	MW2 7/16/08	MW2 5/6/09	MW2 10/25/10	MW2 8/18/11	MW2 11/5/12	MW2 9/25/13	MW2 10/9/14
Benzene	200 (X)	µg/L	ND	ND	<1.0	<1.0	<1.0	<2.0	<1.0	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	270	µg/L	ND	ND	<1.0	<1.0	<1.0	<2.0	<1.0	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
2-Butanone (MEK)	2,200	µg/L	ND	ND	<5.0	<5.0	<5.0	13	<5.0	ND	ND	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	1,100 (X)	µg/L	ND	ND	<1.0	<1.0	<1.0	<2.0	<1.0	ND	ND	<1.0	3.1	2	1	<1.0
Chloromethane	ID [2]	µg/L	ND	ND	<1.0	<1.0	<1.0	<2.0	<1.0	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	740	µg/L	ND	ND	1.8	2.1	2.1	3.1	1.8	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	130	µg/L	ND	ND	<1.0	<1.0	<1.0	<2.0	<1.0	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
cis -1,2-Dichloroethene	620	µg/L	4.1	3.7	6.0	14	22	16	7.3	ND	1.3	<1.0	1.7	<1.0	14	4.9
trans -1,2-Dichloroethene	1500 (X)	µg/L	ND	ND	<1.0	<1.0	<1.0	<2.0	<1.0	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	60 (X)	µg/L	ND	ND	<1.0	<1.0	<1.0	<2.0	<1.0	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	89	µg/L	ND	ND	<1.0	<1.0	<1.0	<2.0	<1.0	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	330 (X)	µg/L	ND	ND	<1.0	<1.0	<1.0	<2.0	<1.0	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	200 (X)	µg/L	ND	ND	<1.0	<1.0	<1.0	<2.0	<1.0	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl Chloride	2400 [4]	µg/L	160	96	140	160	160	190	160	ND	8.9	<1.0	9.4	2.6	31	13

Parameter	GSI[1]	units	MW2D 3/11/13	MW2D 10/25/13	DUP (MW2D) 10/25/13	MW2D 10/9/14	MW3 7/15/08	MW3 5/6/09	MW3 10/25/10	MW3 8/18/11	MW3 11/5/12	MW3 9/25/13	MW3 10/9/14
Benzene	200 (X)	µg/L	<1.0	<1.0	<1.0	<1.0	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	270	µg/L	<1.0	<1.0	<1.0	<1.0	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
2-Butanone (MEK)	2,200	µg/L	<5.0	<5.0	<5.0	<5.0	ND	ND	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	1,100 (X)	µg/L	2.0	<1.0	<1.0	<1.0	60	66	41	50	84	65	14
Chloromethane [2]	ID [2]	µg/L	<1.0	<1.0	<1.0	<1.0	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	740	µg/L	<1.0	<1.0	<1.0	<1.0	ND	ND	<1.0	<1.0	<1.0	1.2	<1.0
1,1-Dichloroethene	130	µg/L	<1.0	<1.0	<1.0	<1.0	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
cis -1,2-Dichloroethene	620	µg/L	<1.0	<1.0	<1.0	<1.0	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
trans -1,2-Dichloroethene	1500 (X)	µg/L	<1.0	<1.0	<1.0	<1.0	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	60 (X)	µg/L	<1.0	<1.0	<1.0	<1.0	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	89	µg/L	<1.0	<1.0	<1.0	<1.0	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	330 (X)	µg/L	<1.0	<1.0	<1.0	<1.0	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	200 (X)	µg/L	<1.0	<1.0	<1.0	<1.0	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl Chloride	2400 [4]	µg/L	<1.0	<1.0	<1.0	<1.0	ND	ND	<1.0	<1.0	<1.0	1.2	1.2

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TABLE 1: SUMMARY OF GROUNDWATER AND SURFACE WATER ANALYTICAL RESULTS
FORMER WHITE CONSOLIDATED INDUSTRIES - BELDING SITE
(2008 - 2014)

Parameter	GSI[1]	units	MW4S 7/15/08	MW4S 5/7/09	MW4S 10/25/10	DUP (MW4S) 10/25/10	MW4S 8/18/11	MW4S 11/5/12	MW4S 9/25/13	MW4S 10/9/14	MW4D 7/15/08	MW4D 5/6/09	MW4D 10/25/10	MW4D 8/18/11	MW4D 11/5/12	MW4D 9/25/13	MW4D 10/9/14
Benzene	200 (X)	µg/L	1.1	ND	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	270	µg/L	ND	ND	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
2-Butanone (MEK)	2,200	µg/L	ND	ND	<25	<25	<25	<25	<25	<25	ND	ND	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	1,100 (X)	µg/L	ND	ND	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane	ID [2]	µg/L	ND	ND	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	740	µg/L	1.9	4.5	<5.0	<5.0	<5.0	<5.0	11	<5.0	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	130	µg/L	5.5	12	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
cis -1,2-Dichloroethene	620	µg/L	290	330	160	160	260	210	11	67	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
trans -1,2-Dichloroethene	1500 (X)	µg/L	11	ND	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	60 (X)	µg/L	ND	ND	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	89	µg/L	ND	ND	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	330 (X)	µg/L	ND	ND	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	200 (X)	µg/L	ND	3.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl Chloride	2400 [4]	µg/L	740	380	590	580	390	490	380	350	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0

Parameter	GSI[1]	units	MW5 7/15/08	MW5 5/7/09	MW5 2010-2015	MW6 7/16/08	DUP 7/16/08	MW6 5/7/09	MW6 10/25/10	MW6 8/18/11	MW6 11/5/12	MW6 9/25/13	MW6 10/10/14
Benzene	200 (X)	µg/L	ND	ND	Well filled w/ sediment above screened interval, could not sample	ND	ND	ND	<25	<25	<25	<25	<25
Toluene	270	µg/L	ND	ND		ND	ND	ND	<25	<25	<25	<25	<25
2-Butanone (MEK)	2,200	µg/L	ND	ND		ND	ND	ND	<120	<120	130	<120	<120
Chloroethane	1,100 (X)	µg/L	ND	ND		ND	ND	ND	<25	<25	<25	<25	<25
Chloromethane [2]	ID [2]	µg/L	ND	ND		ND	ND	ND	<25	<25	<25	<25	<25
1,1-Dichloroethane	740	µg/L	ND	ND		ND	ND	ND	<25	<25	<25	<25	<25
1,1-Dichloroethene	130	µg/L	ND	ND		ND	ND	ND	<25	<25	<25	<25	<25
cis -1,2-Dichloroethene	620	µg/L	ND	1.0		62	64	54	230	210	130	140	180
trans -1,2-Dichloroethene	1500 (X)	µg/L	ND	ND		6.0	5.3	ND	<25	<25	<25	<25	<25
Tetrachloroethene	60 (X)	µg/L	ND	ND		4.9	5.6	**7.0**	<25	<25	<25	<25	<25
1,1,1-Trichloroethane	89	µg/L	ND	ND		6.5	6.5	4.6	<25	<25	<25	<25	<25
1,1,2-Trichloroethane	330 (X)	µg/L	ND	ND		ND	ND	ND	<25	<25	<25	<25	<25
Trichloroethene	200 (X)	µg/L	ND	ND		2,000	2,000	960	3,800	4,200	2,600	1,900	2,700
Vinyl Chloride	2400 [4]	µg/L	ND	ND		ND	ND	ND	<25	<25	<25	<25	<25

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TABLE 1: SUMMARY OF GROUNDWATER AND SURFACE WATER ANALYTICAL RESULTS
FORMER WHITE CONSOLIDATED INDUSTRIES - BELDING SITE
(2008 - 2014)

Parameter	GSI[1]	units	MW7 7/16/08	MW7 5/7/09	MW7 10/26/10	MW7 8/18/11	MW7 11/5/12	MW7 9/25/13	MW7 10/10/14	MW8 7/15/08	MW8 5/6/09	MW8 10/25/10	MW8 8/18/11	MW8 11/5/12	MW8 9/25/13	MW8 10/9/14
Benzene	200 (X)	µg/L	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	270	µg/L	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
2-Butanone (MEK)	2,200	µg/L	ND	ND	<5.0	<5.0	<5.0	<5.0	<5.0	ND	ND	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	1,100 (X)	µg/L	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane	ID [2]	µg/L	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	740	µg/L	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0	ND	ND	<1.0	<1.0	<1.0	2	13
1,1-Dichloroethene	130	µg/L	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
cis -1,2-Dichloroethene	620	µg/L	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0	2.8	2.6	1.8	3.7	2.8	4	3.6
trans -1,2-Dichloroethene	1500 (X)	µg/L	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0	1.3	1.1	1.1	1.2	1.3	1.8	1.5
Tetrachloroethene	60 (X)	µg/L	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	89	µg/L	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	330 (X)	µg/L	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	200 (X)	µg/L	2.1	ND	<1.0	<1.0	<1.0	<1.0	<1.0	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl Chloride	2400 [4]	µg/L	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0	37	26	31	23	31	24	20

Parameter	GSI[1]	units	MW9 7/15/08	MW9 5/6/09	DUP 5/6/09	MW9 10/25/10	MW9 8/18/11	MW9 11/5/12	MW9 9/25/13	MW9 10/9/14
Benzene	200 (X)	µg/L	ND	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	270	µg/L	ND	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
2-Butanone (MEK)	2,200	µg/L	ND	ND	ND	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	1,100 (X)	µg/L	ND	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane [2]	ID [2]	µg/L	ND	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	740	µg/L	ND	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	130	µg/L	ND	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
cis -1,2-Dichloroethene	620	µg/L	ND	ND	ND	<1.0	<1.0	<1.0	1	<1.0
trans -1,2-Dichloroethene	1500 (X)	µg/L	ND	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	60 (X)	µg/L	ND	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	89	µg/L	ND	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	330 (X)	µg/L	ND	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	200 (X)	µg/L	ND	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl Chloride	2400 [4]	µg/L	ND	ND	ND	<1.0	1.2	<1.0	1.4	1.2

TABLE 1: SUMMARY OF GROUNDWATER AND SURFACE WATER ANALYTICAL RESULTS
FORMER WHITE CONSOLIDATED INDUSTRIES - BELDING SITE
(2008 - 2014)

Parameter	GSI[1]	units	MW10 7/16/08	MW10 5/7/09	MW10 10/26/10	MW10 8/18/11	MW10 11/6/12	DUP (MW10) 11/6/12	MW10 9/25/13	MW10 10/10/14	MW11 7/16/08	MW11 5/7/09	MW11 10/26/10	MW11 8/18/11	MW11 11/6/12	MW11 9/25/13	MW11 10/9/14
Benzene	200 (X)	µg/L	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	270	µg/L	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
2-Butanone (MEK)	2,200	µg/L	ND	ND	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	ND	ND	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	1,100 (X)	µg/L	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane	ID [2]	µg/L	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	740	µg/L	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	130	µg/L	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
cis -1,2-Dichloroethene	620	µg/L	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
trans -1,2-Dichloroethene	1500 (X)	µg/L	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	60 (X)	µg/L	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	89	µg/L	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	330 (X)	µg/L	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	200 (X)	µg/L	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl Chloride	2400 [4]	µg/L	ND	ND	<1.0	1.0	<1.0	<1.0	1.1	1.5	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0

Parameter	GSI[1]	units	MW12 7/10/14	DUP (MW12) 7/10/14	MW12 8/22/14	MW12 10/9/14	MW13 7/10/14	MW13 8/22/14	DUP (MW13) 8/22/14	MW13 10/10/14	DUP (MW13) 10/10/14
Benzene	200 (X)	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	270	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-Butanone (MEK)	2,200	µg/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	1,100 (X)	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane [2]	ID [2]	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	740	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	130	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis -1,2-Dichloroethene	620	µg/L	<1.0	<1.0	<1.0	<1.0	86	97	97	95	88
trans -1,2-Dichloroethene	1500 (X)	µg/L	<1.0	<1.0	<1.0	<1.0	11	14	14	7.6	7.6
Tetrachloroethene	60 (X)	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	89	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	330 (X)	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	200 (X)	µg/L	<1.0	<1.0	<1.0	<1.0	26	72	75	12	8.9
Vinyl Chloride	2400 [4]	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

TABLE 1: SUMMARY OF GROUNDWATER AND SURFACE WATER ANALYTICAL RESULTS
FORMER WHITE CONSOLIDATED INDUSTRIES - BELDING SITE
(2008 - 2014)

Parameter	GSI[1]	units	SW1 7/16/08	SW1 5/6/09	SW1 10/25/10	SW1 8/18/11	SW1 11/6/12	SW1 9/25/13	SW1 10/10/14
Benzene	200 (X)	µg/L	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	270	µg/L	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
2-Butanone (MEK)	2,200	µg/L	ND	ND	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	1,100 (X)	µg/L	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane	ID [2]	µg/L	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	740	µg/L	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	130	µg/L	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
cis -1,2-Dichloroethene	620	µg/L	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
trans -1,2-Dichloroethene	1500 (X)	µg/L	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	60 (X)	µg/L	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	89	µg/L	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	330 (X)	µg/L	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	200 (X)	µg/L	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl Chloride	2400 [4]	µg/L	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0

Parameter	GSI[1]	units	SW2 7/16/08	SW2 5/6/09	SW2 10/25/10	SW2 8/18/11	SW2 11/6/12	SW2 9/25/13	SW2 10/10/14
Benzene	200 (X)	µg/L	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	270	µg/L	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
2-Butanone (MEK)	2,200	µg/L	ND	ND	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane	1,100 (X)	µg/L	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane [2]	ID [2]	µg/L	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	740	µg/L	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	130	µg/L	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
cis -1,2-Dichloroethene	620	µg/L	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
trans -1,2-Dichloroethene	1500 (X)	µg/L	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	60 (X)	µg/L	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	89	µg/L	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	330 (X)	µg/L	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	200 (X)	µg/L	ND	ND	3.5	<1.0	<1.0	<1.0	<1.0
Vinyl Chloride	2400 [4]	µg/L	ND	ND	<1.0	<1.0	<1.0	<1.0	<1.0

TABLE 1: SUMMARY OF GROUNDWATER AND SURFACE WATER ANALYTICAL RESULTS
FORMER WHITE CONSOLIDATED INDUSTRIES - BELDING SITE
(2008 - 2014)

NOTES:

[1] GSI = Groundwater surface water interface criteria (DEQ Table 1. Groundwater: Residential and Non-Residential Part 201 Generic Cleanup Criteria and Screening Levels/Part 213 Risk-Based Screening levels, December 30, 2013).

[2] For chloromethane, "ID" indicates inadequate data to develop a GSI criterion.

[3] ND = Non detect (laboratory reporting limits unknown for pre-2010 monitoring events).

[4] The GSI criterion for vinyl chloride is a mixing zone-based criterion developed by the MDEQ in a letter dated December 4, 2014: "Request for Mixing Zone-Based GSI Criteria"

Part 201 Cleanup Criteria Footnotes:

(X) The GSI criterion shown in the generic cleanup criteria tables is not protective for surface water that is used as a drinking water source.

ATTACHMENT A

October 23, 2014

Golder Associates, Inc. - MI
Attn: Mr. Brad Johnson
15851 S. US 27, Suite 50
Lansing, MI 48906

Project: Electrolux - Belding

Dear Mr. Brad Johnson,

Enclosed is a copy of the laboratory report for the following work order(s) received by TriMatrix Laboratories:

Work Order	**Received**	**Description**
1410244	10/10/2014	Laboratory Services

This report relates only to the sample(s) as received. Test results are in compliance with the requirements of the National Environmental Laboratory Accreditation Program (NELAP) and/or one of the following certification programs:

ACLASS DoD-ELAP/ISO17025 (#ADE-1542); Arkansas DEP (#88-0730/13-049-0); Florida DEP (#E87622-24); Georgia EPD (#E87622-24); Illinois DEP (#200026/003329); Kansas DPH (#E-10302); Kentucky DEP (#0021); Louisiana DEP (#103068); Michigan DPH (#0034); Minnesota DPH (#491715); New York ELAP (#11776/48855); North Carolina DNRE (#659); Texas CEQ (#T104704495-14-4); Virginia DCLS (#460153/2592); Wisconsin DNR (#999472650); USDA Soil Import Permit (#P330-12-00236).

Any qualification or narration of results, including sample acceptance requirements and test exceptions to the above referenced programs, is presented in the Statement of Data Qualifications and Project Technical Narrative sections of this report. Estimates of analytical uncertainties and certification documents for the test results contained within this report are available upon request.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

James D. McFadden
Project Chemist

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Individual sample results relate only to the sample tested.
5560 Corporate Exchange Court SE ♦ Grand Rapids, MI 49512 ♦ 616.975.4500 ♦ Fax 616.942.7463 ♦ www.trimatrixlabs.com

PROJECT TECHNICAL NARRATIVE(s)

Volatile Organic Compounds by EPA Method 8260B

Narrative: Due to sample volumes, batch matrix quality control (QC) was not performed for this analysis. A Method Blank and Laboratory Control Sample comprise the batch QC.

Analysis: USEPA-8260B

Sample/Analyte:

1410244-01	MW-12
1410244-02	MW-1
1410244-03	MW-3
1410244-04	MW-4D
1410244-06	MW-2
1410244-07	MW-2D
1410244-08	MW-8
1410244-09	MW-9
1410244-10	MW-11
1410244-11	MW-7
1410244-12	MW-10
1410244-14	MW-13
1410244-16	SW-1
1410244-17	SW-2
1410244-18	Trip Blank

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STATEMENT OF DATA QUALIFICATIONS

All analyses have been validated and comply with our Quality Control Program.
No Qualification is required.

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**Golder Associates, Inc. - MI**	Work Order:	**1410244**
Project:	Electrolux - Belding	Description:	Laboratory Services
Client Sample ID:	**MW-12**	Sampled:	10/09/14 09:22
Lab Sample ID:	**1410244-01**	Sampled By:	R. Heslop
Matrix:	Water	Received:	10/10/14 18:15
Unit:	ug/L	Prepared:	10/21/14 11:00 By: DLV
Dilution Factor:	1	Analyzed:	10/21/14 13:52 By: DLV
QC Batch:	1411655	Analytical Batch:	4J22024

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
71-43-2	Benzene	<1.0	1.0
75-00-3	Chloroethane	<1.0	1.0
74-87-3	Chloromethane	<1.0	1.0
75-34-3	1,1-Dichloroethane	<1.0	1.0
75-35-4	1,1-Dichloroethene	<1.0	1.0
156-59-2	cis-1,2-Dichloroethene	<1.0	1.0
156-60-5	trans-1,2-Dichloroethene	<1.0	1.0
78-93-3	2-Butanone (MEK)	<5.0	5.0
127-18-4	Tetrachloroethene	<1.0	1.0
108-88-3	Toluene	<1.0	1.0
71-55-6	1,1,1-Trichloroethane	<1.0	1.0
79-00-5	1,1,2-Trichloroethane	<1.0	1.0
79-01-6	Trichloroethene	<1.0	1.0
75-01-4	Vinyl Chloride	<1.0	1.0
1330-20-7	Xylene (Total)	<3.0	3.0

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*98*	*85-118*
1,2-Dichloroethane-d4	*102*	*87-122*
Toluene-d8	*97*	*85-113*
4-Bromofluorobenzene	*96*	*82-110*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**Golder Associates, Inc. - MI**	Work Order:	**1410244**		
Project:	Electrolux - Belding	Description:	Laboratory Services		
Client Sample ID:	**MW-1**	Sampled:	10/09/14 10:35		
Lab Sample ID:	**1410244-02**	Sampled By:	R. Heslop		
Matrix:	Water	Received:	10/10/14 18:15		
Unit:	ug/L	Prepared:	10/21/14 11:00	By:	DLV
Dilution Factor:	1	Analyzed:	10/21/14 14:21	By:	DLV
QC Batch:	1411655	Analytical Batch:	4J22024		

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
71-43-2	Benzene	<1.0	1.0
75-00-3	Chloroethane	<1.0	1.0
74-87-3	Chloromethane	<1.0	1.0
75-34-3	1,1-Dichloroethane	**1.8**	1.0
75-35-4	1,1-Dichloroethene	<1.0	1.0
156-59-2	cis-1,2-Dichloroethene	**7.3**	1.0
156-60-5	trans-1,2-Dichloroethene	<1.0	1.0
78-93-3	2-Butanone (MEK)	<5.0	5.0
127-18-4	Tetrachloroethene	<1.0	1.0
108-88-3	Toluene	<1.0	1.0
71-55-6	1,1,1-Trichloroethane	<1.0	1.0
79-00-5	1,1,2-Trichloroethane	<1.0	1.0
79-01-6	Trichloroethene	<1.0	1.0
75-01-4	Vinyl Chloride	**160**	1.0
1330-20-7	Xylene (Total)	<3.0	3.0

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*99*	*85-118*
1,2-Dichloroethane-d4	*101*	*87-122*
Toluene-d8	*97*	*85-113*
4-Bromofluorobenzene	*95*	*82-110*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**Golder Associates, Inc. - MI**	Work Order:	**1410244**		
Project:	Electrolux - Belding	Description:	Laboratory Services		
Client Sample ID:	**MW-3**	Sampled:	10/09/14 11:15		
Lab Sample ID:	**1410244-03**	Sampled By:	R. Heslop		
Matrix:	Water	Received:	10/10/14 18:15		
Unit:	ug/L	Prepared:	10/21/14 11:00	By:	DLV
Dilution Factor:	1	Analyzed:	10/21/14 14:49	By:	DLV
QC Batch:	1411655	Analytical Batch:	4J22024		

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
71-43-2	Benzene	<1.0	1.0
75-00-3	Chloroethane	**14**	1.0
74-87-3	Chloromethane	<1.0	1.0
75-34-3	1,1-Dichloroethane	<1.0	1.0
75-35-4	1,1-Dichloroethene	<1.0	1.0
156-59-2	cis-1,2-Dichloroethene	<1.0	1.0
156-60-5	trans-1,2-Dichloroethene	<1.0	1.0
78-93-3	2-Butanone (MEK)	<5.0	5.0
127-18-4	Tetrachloroethene	<1.0	1.0
108-88-3	Toluene	<1.0	1.0
71-55-6	1,1,1-Trichloroethane	<1.0	1.0
79-00-5	1,1,2-Trichloroethane	<1.0	1.0
79-01-6	Trichloroethene	<1.0	1.0
75-01-4	Vinyl Chloride	**1.2**	1.0
1330-20-7	Xylene (Total)	<3.0	3.0

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*98*	*85-118*
1,2-Dichloroethane-d4	*102*	*87-122*
Toluene-d8	*98*	*85-113*
4-Bromofluorobenzene	*96*	*82-110*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**Golder Associates, Inc. - MI**	Work Order:	**1410244**		
Project:	Electrolux - Belding	Description:	Laboratory Services		
Client Sample ID:	**MW-4D**	Sampled:	10/09/14 12:18		
Lab Sample ID:	**1410244-04**	Sampled By:	R. Heslop		
Matrix:	Water	Received:	10/10/14 18:15		
Unit:	ug/L	Prepared:	10/21/14 11:00	By:	DLV
Dilution Factor:	1	Analyzed:	10/21/14 15:18	By:	DLV
QC Batch:	1411655	Analytical Batch:	4J22024		

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
71-43-2	Benzene	<1.0	1.0
75-00-3	Chloroethane	<1.0	1.0
74-87-3	Chloromethane	<1.0	1.0
75-34-3	1,1-Dichloroethane	<1.0	1.0
75-35-4	1,1-Dichloroethene	<1.0	1.0
156-59-2	cis-1,2-Dichloroethene	<1.0	1.0
156-60-5	trans-1,2-Dichloroethene	<1.0	1.0
78-93-3	2-Butanone (MEK)	<5.0	5.0
127-18-4	Tetrachloroethene	<1.0	1.0
108-88-3	Toluene	<1.0	1.0
71-55-6	1,1,1-Trichloroethane	<1.0	1.0
79-00-5	1,1,2-Trichloroethane	<1.0	1.0
79-01-6	Trichloroethene	<1.0	1.0
75-01-4	Vinyl Chloride	<1.0	1.0
1330-20-7	Xylene (Total)	<3.0	3.0

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*98*	*85-118*
1,2-Dichloroethane-d4	*103*	*87-122*
Toluene-d8	*97*	*85-113*
4-Bromofluorobenzene	*95*	*82-110*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**Golder Associates, Inc. - MI**	Work Order:	**1410244**		
Project:	Electrolux - Belding	Description:	Laboratory Services		
Client Sample ID:	**MW-4S**	Sampled:	10/09/14 12:52		
Lab Sample ID:	**1410244-05**	Sampled By:	R. Heslop		
Matrix:	Water	Received:	10/10/14 18:15		
Unit:	ug/L	Prepared:	10/22/14 12:00	By:	DLV
Dilution Factor:	5	Analyzed:	10/22/14 15:52	By:	DLV
QC Batch:	1411735	Analytical Batch:	4J23027		

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
71-43-2	Benzene	<5.0	5.0
75-00-3	Chloroethane	<5.0	5.0
74-87-3	Chloromethane	<5.0	5.0
75-34-3	1,1-Dichloroethane	<5.0	5.0
75-35-4	1,1-Dichloroethene	<5.0	5.0
156-59-2	cis-1,2-Dichloroethene	**67**	5.0
156-60-5	trans-1,2-Dichloroethene	<5.0	5.0
78-93-3	2-Butanone (MEK)	<25	25
127-18-4	Tetrachloroethene	<5.0	5.0
108-88-3	Toluene	<5.0	5.0
71-55-6	1,1,1-Trichloroethane	<5.0	5.0
79-00-5	1,1,2-Trichloroethane	<5.0	5.0
79-01-6	Trichloroethene	<5.0	5.0
75-01-4	Vinyl Chloride	**350**	5.0
1330-20-7	Xylene (Total)	<15	15

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*89*	*85-118*
1,2-Dichloroethane-d4	*89*	*87-122*
Toluene-d8	*97*	*85-113*
4-Bromofluorobenzene	*95*	*82-110*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**Golder Associates, Inc. - MI**	Work Order:	**1410244**
Project:	Electrolux - Belding	Description:	Laboratory Services
Client Sample ID:	**MW-2**	Sampled:	10/09/14 13:38
Lab Sample ID:	**1410244-06**	Sampled By:	R. Heslop
Matrix:	Water	Received:	10/10/14 18:15
Unit:	ug/L	Prepared:	10/21/14 11:00 By: DLV
Dilution Factor:	1	Analyzed:	10/21/14 16:14 By: DLV
QC Batch:	1411655	Analytical Batch:	4J22024

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
71-43-2	Benzene	<1.0	1.0
75-00-3	Chloroethane	<1.0	1.0
74-87-3	Chloromethane	<1.0	1.0
75-34-3	1,1-Dichloroethane	<1.0	1.0
75-35-4	1,1-Dichloroethene	<1.0	1.0
156-59-2	cis-1,2-Dichloroethene	**4.9**	1.0
156-60-5	trans-1,2-Dichloroethene	<1.0	1.0
78-93-3	2-Butanone (MEK)	<5.0	5.0
127-18-4	Tetrachloroethene	<1.0	1.0
108-88-3	Toluene	<1.0	1.0
71-55-6	1,1,1-Trichloroethane	<1.0	1.0
79-00-5	1,1,2-Trichloroethane	<1.0	1.0
79-01-6	Trichloroethene	<1.0	1.0
75-01-4	Vinyl Chloride	**13**	1.0
1330-20-7	Xylene (Total)	<3.0	3.0

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*99*	*85-118*
1,2-Dichloroethane-d4	*103*	*87-122*
Toluene-d8	*98*	*85-113*
4-Bromofluorobenzene	*96*	*82-110*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**Golder Associates, Inc. - MI**	Work Order:	**1410244**		
Project:	Electrolux - Belding	Description:	Laboratory Services		
Client Sample ID:	**MW-2D**	Sampled:	10/09/14 14:20		
Lab Sample ID:	**1410244-07**	Sampled By:	R. Heslop		
Matrix:	Water	Received:	10/10/14 18:15		
Unit:	ug/L	Prepared:	10/21/14 11:00	By:	DLV
Dilution Factor:	1	Analyzed:	10/21/14 16:43	By:	DLV
QC Batch:	1411655	Analytical Batch:	4J22024		

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
71-43-2	Benzene	<1.0	1.0
75-00-3	Chloroethane	<1.0	1.0
74-87-3	Chloromethane	<1.0	1.0
75-34-3	1,1-Dichloroethane	<1.0	1.0
75-35-4	1,1-Dichloroethene	<1.0	1.0
156-59-2	cis-1,2-Dichloroethene	<1.0	1.0
156-60-5	trans-1,2-Dichloroethene	<1.0	1.0
78-93-3	2-Butanone (MEK)	<5.0	5.0
127-18-4	Tetrachloroethene	<1.0	1.0
108-88-3	Toluene	<1.0	1.0
71-55-6	1,1,1-Trichloroethane	<1.0	1.0
79-00-5	1,1,2-Trichloroethane	<1.0	1.0
79-01-6	Trichloroethene	<1.0	1.0
75-01-4	Vinyl Chloride	<1.0	1.0
1330-20-7	Xylene (Total)	<3.0	3.0

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*98*	*85-118*
1,2-Dichloroethane-d4	*103*	*87-122*
Toluene-d8	*97*	*85-113*
4-Bromofluorobenzene	*94*	*82-110*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**Golder Associates, Inc. - MI**	Work Order:	**1410244**		
Project:	Electrolux - Belding	Description:	Laboratory Services		
Client Sample ID:	**MW-8**	Sampled:	10/09/14 15:02		
Lab Sample ID:	**1410244-08**	Sampled By:	R. Heslop		
Matrix:	Water	Received:	10/10/14 18:15		
Unit:	ug/L	Prepared:	10/21/14 11:00	By:	DLV
Dilution Factor:	1	Analyzed:	10/21/14 17:11	By:	DLV
QC Batch:	1411655	Analytical Batch:	4J22024		

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
71-43-2	Benzene	<1.0	1.0
75-00-3	Chloroethane	<1.0	1.0
74-87-3	Chloromethane	<1.0	1.0
75-34-3	1,1-Dichloroethane	**13**	1.0
75-35-4	1,1-Dichloroethene	<1.0	1.0
156-59-2	cis-1,2-Dichloroethene	**3.6**	1.0
156-60-5	trans-1,2-Dichloroethene	**1.5**	1.0
78-93-3	2-Butanone (MEK)	<5.0	5.0
127-18-4	Tetrachloroethene	<1.0	1.0
108-88-3	Toluene	<1.0	1.0
71-55-6	1,1,1-Trichloroethane	<1.0	1.0
79-00-5	1,1,2-Trichloroethane	<1.0	1.0
79-01-6	Trichloroethene	<1.0	1.0
75-01-4	Vinyl Chloride	**20**	1.0
1330-20-7	Xylene (Total)	<3.0	3.0

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*100*	*85-118*
1,2-Dichloroethane-d4	*105*	*87-122*
Toluene-d8	*98*	*85-113*
4-Bromofluorobenzene	*96*	*82-110*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**Golder Associates, Inc. - MI**	Work Order:	**1410244**		
Project:	Electrolux - Belding	Description:	Laboratory Services		
Client Sample ID:	**MW-9**	Sampled:	10/09/14 16:15		
Lab Sample ID:	**1410244-09**	Sampled By:	R. Heslop		
Matrix:	Water	Received:	10/10/14 18:15		
Unit:	ug/L	Prepared:	10/21/14 11:00	By:	DLV
Dilution Factor:	1	Analyzed:	10/21/14 17:39	By:	DLV
QC Batch:	1411655	Analytical Batch:	4J22024		

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
71-43-2	Benzene	<1.0	1.0
75-00-3	Chloroethane	<1.0	1.0
74-87-3	Chloromethane	<1.0	1.0
75-34-3	1,1-Dichloroethane	<1.0	1.0
75-35-4	1,1-Dichloroethene	<1.0	1.0
156-59-2	cis-1,2-Dichloroethene	<1.0	1.0
156-60-5	trans-1,2-Dichloroethene	<1.0	1.0
78-93-3	2-Butanone (MEK)	<5.0	5.0
127-18-4	Tetrachloroethene	<1.0	1.0
108-88-3	Toluene	<1.0	1.0
71-55-6	1,1,1-Trichloroethane	<1.0	1.0
79-00-5	1,1,2-Trichloroethane	<1.0	1.0
79-01-6	Trichloroethene	<1.0	1.0
75-01-4	Vinyl Chloride	**1.2**	1.0
1330-20-7	Xylene (Total)	<3.0	3.0

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*99*	*85-118*
1,2-Dichloroethane-d4	*104*	*87-122*
Toluene-d8	*98*	*85-113*
4-Bromofluorobenzene	*95*	*82-110*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**Golder Associates, Inc. - MI**	Work Order:	**1410244**		
Project:	Electrolux - Belding	Description:	Laboratory Services		
Client Sample ID:	**MW-11**	Sampled:	10/09/14 09:52		
Lab Sample ID:	**1410244-10**	Sampled By:	R. Heslop		
Matrix:	Water	Received:	10/10/14 18:15		
Unit:	ug/L	Prepared:	10/21/14 11:00	By:	DLV
Dilution Factor:	1	Analyzed:	10/21/14 18:07	By:	DLV
QC Batch:	1411655	Analytical Batch:	4J22024		

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
71-43-2	Benzene	<1.0	1.0
75-00-3	Chloroethane	<1.0	1.0
74-87-3	Chloromethane	<1.0	1.0
75-34-3	1,1-Dichloroethane	<1.0	1.0
75-35-4	1,1-Dichloroethene	<1.0	1.0
156-59-2	cis-1,2-Dichloroethene	<1.0	1.0
156-60-5	trans-1,2-Dichloroethene	<1.0	1.0
78-93-3	2-Butanone (MEK)	<5.0	5.0
127-18-4	Tetrachloroethene	<1.0	1.0
108-88-3	Toluene	<1.0	1.0
71-55-6	1,1,1-Trichloroethane	<1.0	1.0
79-00-5	1,1,2-Trichloroethane	<1.0	1.0
79-01-6	Trichloroethene	<1.0	1.0
75-01-4	Vinyl Chloride	<1.0	1.0
1330-20-7	Xylene (Total)	<3.0	3.0

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*99*	*85-118*
1,2-Dichloroethane-d4	*104*	*87-122*
Toluene-d8	*98*	*85-113*
4-Bromofluorobenzene	*95*	*82-110*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**Golder Associates, Inc. - MI**	Work Order:	**1410244**		
Project:	Electrolux - Belding	Description:	Laboratory Services		
Client Sample ID:	**MW-7**	Sampled:	10/10/14 11:14		
Lab Sample ID:	**1410244-11**	Sampled By:	R. Heslop		
Matrix:	Water	Received:	10/10/14 18:15		
Unit:	ug/L	Prepared:	10/21/14 11:00	By:	DLV
Dilution Factor:	1	Analyzed:	10/21/14 18:36	By:	DLV
QC Batch:	1411655	Analytical Batch:	4J22024		

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
71-43-2	Benzene	<1.0	1.0
75-00-3	Chloroethane	<1.0	1.0
74-87-3	Chloromethane	<1.0	1.0
75-34-3	1,1-Dichloroethane	<1.0	1.0
75-35-4	1,1-Dichloroethene	<1.0	1.0
156-59-2	cis-1,2-Dichloroethene	<1.0	1.0
156-60-5	trans-1,2-Dichloroethene	<1.0	1.0
78-93-3	2-Butanone (MEK)	<5.0	5.0
127-18-4	Tetrachloroethene	<1.0	1.0
108-88-3	Toluene	<1.0	1.0
71-55-6	1,1,1-Trichloroethane	<1.0	1.0
79-00-5	1,1,2-Trichloroethane	<1.0	1.0
79-01-6	Trichloroethene	<1.0	1.0
75-01-4	Vinyl Chloride	<1.0	1.0
1330-20-7	Xylene (Total)	<3.0	3.0

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*100*	*85-118*
1,2-Dichloroethane-d4	*104*	*87-122*
Toluene-d8	*97*	*85-113*
4-Bromofluorobenzene	*95*	*82-110*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**Golder Associates, Inc. - MI**	Work Order:	**1410244**		
Project:	Electrolux - Belding	Description:	Laboratory Services		
Client Sample ID:	**MW-10**	Sampled:	10/10/14 10:35		
Lab Sample ID:	**1410244-12**	Sampled By:	R. Heslop		
Matrix:	Water	Received:	10/10/14 18:15		
Unit:	ug/L	Prepared:	10/21/14 11:00	By:	DLV
Dilution Factor:	1	Analyzed:	10/21/14 19:04	By:	DLV
QC Batch:	1411655	Analytical Batch:	4J22024		

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
71-43-2	Benzene	<1.0	1.0
75-00-3	Chloroethane	<1.0	1.0
74-87-3	Chloromethane	<1.0	1.0
75-34-3	1,1-Dichloroethane	<1.0	1.0
75-35-4	1,1-Dichloroethene	<1.0	1.0
156-59-2	cis-1,2-Dichloroethene	<1.0	1.0
156-60-5	trans-1,2-Dichloroethene	<1.0	1.0
78-93-3	2-Butanone (MEK)	<5.0	5.0
127-18-4	Tetrachloroethene	<1.0	1.0
108-88-3	Toluene	<1.0	1.0
71-55-6	1,1,1-Trichloroethane	<1.0	1.0
79-00-5	1,1,2-Trichloroethane	<1.0	1.0
79-01-6	Trichloroethene	<1.0	1.0
75-01-4	Vinyl Chloride	**1.5**	1.0
1330-20-7	Xylene (Total)	<3.0	3.0

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*100*	*85-118*
1,2-Dichloroethane-d4	*104*	*87-122*
Toluene-d8	*98*	*85-113*
4-Bromofluorobenzene	*96*	*82-110*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**Golder Associates, Inc. - MI**	Work Order:	**1410244**
Project:	Electrolux - Belding	Description:	Laboratory Services
Client Sample ID:	**MW-6**	Sampled:	10/10/14 12:00
Lab Sample ID:	**1410244-13**	Sampled By:	R. Heslop
Matrix:	Water	Received:	10/10/14 18:15
Unit:	ug/L	Prepared:	10/22/14 12:00 By: DLV
Dilution Factor:	25	Analyzed:	10/22/14 16:20 By: DLV
QC Batch:	1411735	Analytical Batch:	4J23027

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
71-43-2	Benzene	<25	25
75-00-3	Chloroethane	<25	25
74-87-3	Chloromethane	<25	25
75-34-3	1,1-Dichloroethane	<25	25
75-35-4	1,1-Dichloroethene	<25	25
156-59-2	cis-1,2-Dichloroethene	**180**	25
156-60-5	trans-1,2-Dichloroethene	<25	25
78-93-3	2-Butanone (MEK)	<120	120
127-18-4	Tetrachloroethene	<25	25
108-88-3	Toluene	<25	25
71-55-6	1,1,1-Trichloroethane	<25	25
79-00-5	1,1,2-Trichloroethane	<25	25
79-01-6	Trichloroethene	**2700**	25
75-01-4	Vinyl Chloride	<25	25
1330-20-7	Xylene (Total)	<75	75

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*89*	*85-118*
1,2-Dichloroethane-d4	*90*	*87-122*
Toluene-d8	*97*	*85-113*
4-Bromofluorobenzene	*94*	*82-110*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**Golder Associates, Inc. - MI**	Work Order:	**1410244**		
Project:	Electrolux - Belding	Description:	Laboratory Services		
Client Sample ID:	**MW-13**	Sampled:	10/10/14 12:40		
Lab Sample ID:	**1410244-14**	Sampled By:	R. Heslop		
Matrix:	Water	Received:	10/10/14 18:15		
Unit:	ug/L	Prepared:	10/21/14 11:00	By:	DLV
Dilution Factor:	1	Analyzed:	10/21/14 20:01	By:	DLV
QC Batch:	1411655	Analytical Batch:	4J22024		

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
71-43-2	Benzene	<1.0	1.0
75-00-3	Chloroethane	<1.0	1.0
74-87-3	Chloromethane	<1.0	1.0
75-34-3	1,1-Dichloroethane	<1.0	1.0
75-35-4	1,1-Dichloroethene	<1.0	1.0
156-59-2	cis-1,2-Dichloroethene	**95**	1.0
156-60-5	trans-1,2-Dichloroethene	**7.6**	1.0
78-93-3	2-Butanone (MEK)	<5.0	5.0
127-18-4	Tetrachloroethene	<1.0	1.0
108-88-3	Toluene	<1.0	1.0
71-55-6	1,1,1-Trichloroethane	<1.0	1.0
79-00-5	1,1,2-Trichloroethane	<1.0	1.0
79-01-6	Trichloroethene	**12**	1.0
75-01-4	Vinyl Chloride	<1.0	1.0
1330-20-7	Xylene (Total)	<3.0	3.0

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*101*	*85-118*
1,2-Dichloroethane-d4	*103*	*87-122*
Toluene-d8	*98*	*85-113*
4-Bromofluorobenzene	*96*	*82-110*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**Golder Associates, Inc. - MI**	Work Order:	**1410244**		
Project:	Electrolux - Belding	Description:	Laboratory Services		
Client Sample ID:	**DUP-1**	Sampled:	10/10/14 00:00		
Lab Sample ID:	**1410244-15**	Sampled By:	R. Heslop		
Matrix:	Water	Received:	10/10/14 18:15		
Unit:	ug/L	Prepared:	10/22/14 12:00	By:	DLV
Dilution Factor:	1	Analyzed:	10/22/14 16:49	By:	DLV
QC Batch:	1411735	Analytical Batch:	4J23027		

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
71-43-2	Benzene	<1.0	1.0
75-00-3	Chloroethane	<1.0	1.0
74-87-3	Chloromethane	<1.0	1.0
75-34-3	1,1-Dichloroethane	<1.0	1.0
75-35-4	1,1-Dichloroethene	<1.0	1.0
156-59-2	cis-1,2-Dichloroethene	**88**	1.0
156-60-5	trans-1,2-Dichloroethene	**7.6**	1.0
78-93-3	2-Butanone (MEK)	<5.0	5.0
127-18-4	Tetrachloroethene	<1.0	1.0
108-88-3	Toluene	<1.0	1.0
71-55-6	1,1,1-Trichloroethane	<1.0	1.0
79-00-5	1,1,2-Trichloroethane	<1.0	1.0
79-01-6	Trichloroethene	**8.9**	1.0
75-01-4	Vinyl Chloride	<1.0	1.0
1330-20-7	Xylene (Total)	<3.0	3.0

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*90*	*85-118*
1,2-Dichloroethane-d4	*90*	*87-122*
Toluene-d8	*96*	*85-113*
4-Bromofluorobenzene	*94*	*82-110*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**Golder Associates, Inc. - MI**	Work Order:	**1410244**		
Project:	Electrolux - Belding	Description:	Laboratory Services		
Client Sample ID:	**SW-1**	Sampled:	10/10/14 13:25		
Lab Sample ID:	**1410244-16**	Sampled By:	R. Heslop		
Matrix:	Water	Received:	10/10/14 18:15		
Unit:	ug/L	Prepared:	10/21/14 11:00	By:	DLV
Dilution Factor:	1	Analyzed:	10/21/14 20:58	By:	DLV
QC Batch:	1411655	Analytical Batch:	4J22024		

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
71-43-2	Benzene	<1.0	1.0
75-00-3	Chloroethane	<1.0	1.0
74-87-3	Chloromethane	<1.0	1.0
75-34-3	1,1-Dichloroethane	<1.0	1.0
75-35-4	1,1-Dichloroethene	<1.0	1.0
156-59-2	cis-1,2-Dichloroethene	<1.0	1.0
156-60-5	trans-1,2-Dichloroethene	<1.0	1.0
78-93-3	2-Butanone (MEK)	<5.0	5.0
127-18-4	Tetrachloroethene	<1.0	1.0
108-88-3	Toluene	<1.0	1.0
71-55-6	1,1,1-Trichloroethane	<1.0	1.0
79-00-5	1,1,2-Trichloroethane	<1.0	1.0
79-01-6	Trichloroethene	<1.0	1.0
75-01-4	Vinyl Chloride	<1.0	1.0
1330-20-7	Xylene (Total)	<3.0	3.0

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*99*	*85-118*
1,2-Dichloroethane-d4	*103*	*87-122*
Toluene-d8	*98*	*85-113*
4-Bromofluorobenzene	*94*	*82-110*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**Golder Associates, Inc. - MI**	Work Order:	**1410244**
Project:	Electrolux - Belding	Description:	Laboratory Services
Client Sample ID:	**SW-2**	Sampled:	10/10/14 13:10
Lab Sample ID:	**1410244-17**	Sampled By:	R. Heslop
Matrix:	Water	Received:	10/10/14 18:15
Unit:	ug/L	Prepared:	10/21/14 11:00 By: DLV
Dilution Factor:	1	Analyzed:	10/21/14 21:28 By: DLV
QC Batch:	1411655	Analytical Batch:	4J22024

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
71-43-2	Benzene	<1.0	1.0
75-00-3	Chloroethane	<1.0	1.0
74-87-3	Chloromethane	<1.0	1.0
75-34-3	1,1-Dichloroethane	<1.0	1.0
75-35-4	1,1-Dichloroethene	<1.0	1.0
156-59-2	cis-1,2-Dichloroethene	<1.0	1.0
156-60-5	trans-1,2-Dichloroethene	<1.0	1.0
78-93-3	2-Butanone (MEK)	<5.0	5.0
127-18-4	Tetrachloroethene	<1.0	1.0
108-88-3	Toluene	<1.0	1.0
71-55-6	1,1,1-Trichloroethane	<1.0	1.0
79-00-5	1,1,2-Trichloroethane	<1.0	1.0
79-01-6	Trichloroethene	<1.0	1.0
75-01-4	Vinyl Chloride	<1.0	1.0
1330-20-7	Xylene (Total)	<3.0	3.0

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*99*	*85-118*
1,2-Dichloroethane-d4	*103*	*87-122*
Toluene-d8	*98*	*85-113*
4-Bromofluorobenzene	*95*	*82-110*

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TRIMATRIX LABORATORIES

ANALYTICAL REPORT

Client:	**Golder Associates, Inc. - MI**	Work Order:	**1410244**
Project:	Electrolux - Belding	Description:	Laboratory Services
Client Sample ID:	**Trip Blank**	Sampled:	10/10/14 00:00
Lab Sample ID:	**1410244-18**	Sampled By:	TML
Matrix:	Water	Received:	10/10/14 18:15
Unit:	ug/L	Prepared:	10/21/14 11:00 By: DLV
Dilution Factor:	1	Analyzed:	10/21/14 13:24 By: DLV
QC Batch:	1411655	Analytical Batch:	4J22024

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
71-43-2	Benzene	<1.0	1.0
75-00-3	Chloroethane	<1.0	1.0
74-87-3	Chloromethane	<1.0	1.0
75-34-3	1,1-Dichloroethane	<1.0	1.0
75-35-4	1,1-Dichloroethene	<1.0	1.0
156-59-2	cis-1,2-Dichloroethene	<1.0	1.0
156-60-5	trans-1,2-Dichloroethene	<1.0	1.0
78-93-3	2-Butanone (MEK)	<5.0	5.0
127-18-4	Tetrachloroethene	<1.0	1.0
108-88-3	Toluene	<1.0	1.0
71-55-6	1,1,1-Trichloroethane	<1.0	1.0
79-00-5	1,1,2-Trichloroethane	<1.0	1.0
79-01-6	Trichloroethene	<1.0	1.0
75-01-4	Vinyl Chloride	<1.0	1.0
1330-20-7	Xylene (Total)	<3.0	3.0

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	*98*	*85-118*
1,2-Dichloroethane-d4	*102*	*87-122*
Toluene-d8	*97*	*85-113*
4-Bromofluorobenzene	*96*	*82-110*

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TRIMATRIX LABORATORIES

QUALITY CONTROL REPORT

Volatile Organic Compounds by EPA Method 8260B

QC Batch: 1411655 5030B Aqueous Purge & Trap/USEPA-8260B

Method Blank — Analyzed: 10/21/2014 By: DLV
Unit: ug/L — Analytical Batch: 4J22024

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
Benzene			<1.0					1.0
Chloroethane			<1.0					1.0
Chloromethane			<1.0					1.0
1,1-Dichloroethane			<1.0					1.0
1,1-Dichloroethene			<1.0					1.0
cis-1,2-Dichloroethene			<1.0					1.0
trans-1,2-Dichloroethene			<1.0					1.0
2-Butanone (MEK)			<5.0					5.0
Tetrachloroethene			<1.0					1.0
Toluene			<1.0					1.0
1,1,1-Trichloroethane			<1.0					1.0
1,1,2-Trichloroethane			<1.0					1.0
Trichloroethene			<1.0					1.0
Vinyl Chloride			<1.0					1.0
Xylene (Total)			<3.0					3.0
Surrogates:								
Dibromofluoromethane				*97*	*85-118*			
1,2-Dichloroethane-d4				*101*	*87-122*			
Toluene-d8				*97*	*85-113*			
4-Bromofluorobenzene				*96*	*82-110*			

Laboratory Control Sample — Analyzed: 10/21/2014 By: DLV
Unit: ug/L — Analytical Batch: 4J22024

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
Benzene		40.0	**42.6**	106	84-119	--		1.0
Chloroethane		40.0	**40.0**	100	76-124	--		1.0
Chloromethane		40.0	**44.9**	112	73-125	--		1.0
1,1-Dichloroethane		40.0	**42.9**	107	80-118	--		1.0
1,1-Dichloroethene		40.0	**42.6**	107	77-123	--		1.0
cis-1,2-Dichloroethene		40.0	**43.8**	110	84-119	--		1.0
trans-1,2-Dichloroethene		40.0	**44.0**	110	76-126	--		1.0
2-Butanone (MEK)		40.0	**40.2**	100	52-142	--		5.0
Tetrachloroethene		40.0	**44.1**	110	81-117	--		1.0
Toluene		40.0	**42.5**	106	85-118	--		1.0

Continued on next page

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Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL

QC Batch: 1411655 (Continued) 5030B Aqueous Purge & Trap/USEPA-8260B

Laboratory Control Sample (Continued) Analyzed: 10/21/2014 By: DLV
Unit: ug/L Analytical Batch: 4J22024

1,1,1-Trichloroethane	40.0	**46.1**	115	81-122	--	1.0
1,1,2-Trichloroethane	40.0	**41.0**	102	83-121	--	1.0
Trichloroethene	40.0	**43.1**	108	82-119	--	1.0
Vinyl Chloride	40.0	**43.7**	109	77-123	--	1.0
Surrogates:						
Dibromofluoromethane			*101*	*85-118*		
1,2-Dichloroethane-d4			*99*	*87-122*		
Toluene-d8			*101*	*85-113*		
4-Bromofluorobenzene			*102*	*82-110*		

QC Batch: 1411735 5030B Aqueous Purge & Trap/USEPA-8260B

Method Blank Analyzed: 10/22/2014 By: DLV
Unit: ug/L Analytical Batch: 4J23027

Benzene		<1.0				1.0
Chloroethane		<1.0				1.0
Chloromethane		<1.0				1.0
1,1-Dichloroethane		<1.0				1.0
1,1-Dichloroethene		<1.0				1.0
cis-1,2-Dichloroethene		<1.0				1.0
trans-1,2-Dichloroethene		<1.0				1.0
2-Butanone (MEK)		<5.0				5.0
Tetrachloroethene		<1.0				1.0
Toluene		<1.0				1.0
1,1,1-Trichloroethane		<1.0				1.0
1,1,2-Trichloroethane		<1.0				1.0
Trichloroethene		<1.0				1.0
Vinyl Chloride		<1.0				1.0
Xylene (Total)		<3.0				3.0
Surrogates:						
Dibromofluoromethane			*93*	*85-118*		

Continued on next page

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TRIMATRIX LABORATORIES

QUALITY CONTROL REPORT

Volatile Organic Compounds by EPA Method 8260B (Continued)

QC Batch: 1411735 (Continued) 5030B Aqueous Purge & Trap/USEPA-8260B

Method Blank (Continued) Analyzed: 10/22/2014 By: DLV
Unit: ug/L Analytical Batch: 4J23027

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
Surrogates (Continued):								
1,2-Dichloroethane-d4				*93*	*87-122*			
Toluene-d8				*96*	*85-113*			
4-Bromofluorobenzene				*94*	*82-110*			

Laboratory Control Sample Analyzed: 10/22/2014 By: DLV
Unit: ug/L Analytical Batch: 4J23027

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
Benzene		40.0	**37.8**	94	84-119	--		1.0
Chloroethane		40.0	**32.8**	82	76-124	--		1.0
Chloromethane		40.0	**36.1**	90	73-125	--		1.0
1,1-Dichloroethane		40.0	**37.1**	93	80-118	--		1.0
1,1-Dichloroethene		40.0	**35.9**	90	77-123	--		1.0
cis-1,2-Dichloroethene		40.0	**39.6**	99	84-119	--		1.0
trans-1,2-Dichloroethene		40.0	**38.8**	97	76-126	--		1.0
2-Butanone (MEK)		40.0	**40.3**	101	52-142	--		5.0
Tetrachloroethene		40.0	**40.0**	100	81-117	--		1.0
Toluene		40.0	**37.7**	94	85-118	--		1.0
1,1,1-Trichloroethane		40.0	**38.2**	96	81-122	--		1.0
1,1,2-Trichloroethane		40.0	**37.5**	94	83-121	--		1.0
Trichloroethene		40.0	**39.0**	97	82-119	--		1.0
Vinyl Chloride		40.0	**35.7**	89	77-123	--		1.0
Surrogates:								
Dibromofluoromethane				*98*	*85-118*			
1,2-Dichloroethane-d4				*92*	*87-122*			
Toluene-d8				*99*	*85-113*			
4-Bromofluorobenzene				*97*	*82-110*			

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Chain of Custody Record

COC No. 13341

Pg. 1 of 2

For Lab Use Only

Cart: –

VOA Rack/Tray: 576,597-G

Receipt Log No.: 44-28

Project Chemist: Jim McFadden

Work Order No.: 1410244

Client Name: Golder Associates, Inc., MI

Address: 15851S. US 27, Suite 50

City, State Zip: Lansing, MI 48906

Phone/Fax: D: 517-318-3250, F: 517-482-2460

Email: Brad Johnson (brad_johnson@golder.com)

Project Name: Electolux - Belding

Client Project No. / P.O. No.:

Invoice To: (●) Client ( ) Other (comments)

Contact/Report To: Brad Johnson

Analyses Requested

Volatiles - Water: D

Container Type (corresponds to Container Packing List): 1

Number of Containers Submitted

⇦ PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

Schedule	Matrix Code	Sample Number		Field Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	1	Total	Sample Comments
01	W	01	1	MW-12	2580	10/9/14	0922		X	W	2	2	
01	W	02	2	MW-1		10/9/14	1035		X	W	2	2	
01	W	03	3	MW-3		10/9/14	1115		X	W	2	2	
01	W	04	4	MW-4D		10/9/14	1218		X	W	2	2	
01	W	05	5	MW-4S		10/9/14	1252		X	W	2	2	
01	W	06	6	MW-2		10/9/14	1338		X	W	2	2	
01	W	07	7	MW-2D		10/9/14	1420		X	W	2	2	
01	W	08	8	MW-8		10/9/14	1502		X	W	2	2	
01	W	09	9	MW-9		10/9/14	1615		X	W	2	2	
01	W	10	10	MW-11		10/10/14	0952		X	W	2	2	

Sampled By (print): Ryan Heslop

Sampler's Signature: [signature]

Company: Golder

How Shipped? Hand ___ Carrier ___

Tracking No.

1. Relinquished By	Date	Time	2. Relinquished By	Date	Time	3. Relinquished By	Date	Time
[signature]			[signature]	10.10.14	1815			

1. Received By	Date	Time	2. Received By	Date	Time	3. Received For Lab By	Date	Time
[signature]	10.10.14	1150				[signature] Jordin	10/10/14	1

ORIGINAL - LABORATORY

COPY - FIELD/SAMPLER

TRIMATRIX LABORATORIES

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Chain of Custody Record

COC No. 13342

Pg. 2 of 2

Analyses Requested

For Lab Use Only	
Cart	–
VOA Rack/Tray	376, 597-B
Receipt Log No.	24-28
Project Chemist	Jim McFadden
Work Order No.	1410244

Client Name	Golder Associates, Inc., MI
Address	15851S. US 27, Suite 50
City, State Zip	Lansing, MI 48906
Phone/Fax	D: 517-318-3250, F: 517-482-2460
Email:	Brad Johnson (brad_johnson@golder.com)
Project Name	Electolux - Belding
Client Project No. / P.O. No.	
Invoice To	(●) Client ( ) Other (comments)
Contact/Report To	Brad Johnson

PRESERVATIVES
- A NONE pH~7
- B HNO_3 pH<2
- C H_2SO_4 pH<2
- D 1+1 HCl pH<2
- E NaOH pH>12
- F ZnAc/NaOH pH>9
- G MeOH
- H Other (note below)

Schedule	Matrix Code	Sample Number		Field Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	Volatiles - Water D	Total	Sample Comments
				Container Type (corresponds to Container Packing List)							1		
				Number of Containers Submitted									
01	W	11	1	MW-7	2580	10/10/14	1114		X	W	2	2	
01	W	12	2	MW-10		10/10/14	1035		X	W	2	2	
01	W	13	3	MW-6		10/10/14	1200		X	W	2	2	
01	W	14	4	MW-13		10/10/14	1240		X	W	2	2	
01	W	15	5	Dup-1		10/10/14	–		X	W	2	2	
01	W	16	6	SW-1		10/10/14	1325		X	W	2	2	
01	W	17	7	SW-2		10/10/14	1310		X	W	2	2	
01	W		8						X	W	2	2	
03	W	18	9	Trip Blank		–	–		X	W	1	1	
			10										

Sampled By (print): Ryan Heslop	How Shipped? Hand ___ Carrier ___		
Sampler's Signature: Ryan Heslop	Tracking No.		
Company: Golder	1. Relinquished By: Ryan Heslop — Date — Time	2. Relinquished By: [signature] — Date 10.10.14 — Time 1815	3. Relinquished By — Date — Time
	1. Received By: [signature] — Date 10.10.14 — Time 1850	2. Received By — Date — Time	3. Received For Lab By: D. Hardin — Date 10/10/14 — Time 1[illegible]

ORIGINAL - LABORATORY

COPY - FIELD/SAMPLER

SAMPLE RECEIVING / LOG-IN CHECKLIST

TRIMATRIX LABORATORIES

Client: GOLDER
Receipt Record Page/Line #: 44-28
Work Order #: 1410244
New / Add To
Project Chemist
Sample #s

Recorded by (initials/date): DN 10/10/14

☑ Cooler ☐ Box ☐ Other
Qty Received: 1
Thermometer Used: ☑ IR Gun (#202) ☐ Digital Thermometer (#54) ☐ Other (#_____)
☐ See Additional Cooler Information Form

Cooler # 1	Cooler # 2	Cooler # 3	Cooler # 4
Time: 2040	Time:	Time:	Time:
Custody Seals: ☑ None ☐ Present / Intact ☐ Present / Not Intact	Custody Seals: ☐ None ☐ Present / Intact ☐ Present / Not Intact	Custody Seals: ☐ None ☐ Present / Intact ☐ Present / Not Intact	Custody Seals: ☐ None ☐ Present / Intact ☐ Present / Not Intact
Coolant Type: ☐ Loose Ice ☑ Bagged Ice ☐ Blue Ice ☐ None	Coolant Type: ☐ Loose Ice ☐ Bagged Ice ☐ Blue Ice ☐ None	Coolant Type: ☐ Loose Ice ☐ Bagged Ice ☐ Blue Ice ☐ None	Coolant Type: ☐ Loose Ice ☐ Bagged Ice ☐ Blue Ice ☐ None
Coolant Location: Dispersed / Top / Middle / Bottom	Coolant Location: Dispersed / Top / Middle / Bottom	Coolant Location: Dispersed / Top / Middle / Bottom	Coolant Location: Dispersed / Top / Middle / Bottom
Temp Blank Present: ☐ Yes ☐ No	Temp Blank Present: ☐ Yes ☐ No	Temp Blank Present: ☐ Yes ☐ No	Temp Blank Present: ☐ Yes ☐ No
If Present, Temperature Blank Location is: ☐ Representative ☐ Not Representative	If Present, Temperature Blank Location is: ☐ Representative ☐ Not Representative	If Present, Temperature Blank Location is: ☐ Representative ☐ Not Representative	If Present, Temperature Blank Location is: ☐ Representative ☐ Not Representative

	Observed °C	Correction Factor °C	Actual °C
Cooler 1 Temp Blank			
Cooler 1 Sample 1	7.3	0	7.3
Cooler 1 Sample 2	6.8	0	6.8
Cooler 1 Sample 3	6.4	0	6.4
Cooler 1 3 Sample Average °C			6.8
Cooler 2 Temp Blank			
Cooler 2 Sample 1			
Cooler 2 Sample 2			
Cooler 2 Sample 3			
Cooler 2 3 Sample Average °C			
Cooler 3 Temp Blank			
Cooler 3 Sample 1			
Cooler 3 Sample 2			
Cooler 3 Sample 3			
Cooler 3 3 Sample Average °C			
Cooler 4 Temp Blank			
Cooler 4 Sample 1			
Cooler 4 Sample 2			
Cooler 4 Sample 3			
Cooler 4 3 Sample Average °C			

Cooler 1	Cooler 2	Cooler 3	Cooler 4
☑ Cooler ID on COC?	☐ Cooler ID on COC?	☐ Cooler ID on COC?	☐ Cooler ID on COC?
☑ VOC Trip Blank received?	☐ VOC Trip Blank received?	☐ VOC Trip Blank received?	☐ VOC Trip Blank received?

If any shaded areas checked, complete Sample Receiving Non-Conformance and/or Inventory Form

Paperwork Received

Yes	No	
☑	☐	Chain of Custody record(s)? If No, Initiated By _____
☑		Received for Lab Signed/Date/Time?
☐	☑	Shipping document?
☐	☑	Other _____

COC Information

☑ TriMatrix COC ☐ Other _____

COC ID Numbers: 13341, 13342

Check Sample Preservation

N/A	Yes	No	
	☑	☐	Temperature Blank **OR** average sample temperature, ≥6° C?
☐	☑	☐	If either is ≥6° C, was thermal preservation required?
☑	☐		If "Yes", Project Chemist Approval Initials: _____
☑	☐		If "Yes" Completed Non Con Cooler - Cont Inventory Form?
☑	☐		Completed Sample Preservation Verification Form?
☑	☐	☐	Samples chemically preserved correctly?
☑	☐		If "No", added orange tag?
	☐	☑	Received pre-preserved VOC soils?

☐ MeOH ☐ Na_2SO_4

Check COC for Accuracy

Yes	No	
☑	☐	Analysis Requested?
☑	☐	Sample ID matches COC?
☑	☐	Sample Date and Time matches COC?
☑		Container type completed on COC?
☑	☐	All container types indicated are received?

Check for Short Hold-Time Prep/Analyses

☐ Bacteriological
☐ Air Bags
☐ EnCores / Methanol Pre-Preserved
☐ Formaldehyde/Aldehyde
☐ Green-tagged containers
☐ Yellow/White-tagged 1 L ambers (SV Prep-Lab)

AFTER HOURS ONLY:
COPIES OF COC TO LAB AREA(S)
☑ NONE RECEIVED
☐ RECEIVED, COCs TO LAB(S)

Sample Condition Summary

N/A	Yes	No	
	☐	☑	Broken containers/lids?
	☐	☑	Missing or incomplete labels?
	☐	☑	Illegible information on labels?
	☐	☑	Low volume received?
	☐	☑	Inappropriate or non-TriMatrix containers received?
☐	☐	☑	VOC vials / TOX containers have headspace?
☑	☐	☐	Extra sample locations / containers not listed on COC?

Notes

☑ Trip Blank received ☐ Trip Blank not listed on COC

Cooler Received (Date/Time)	Paperwork Delivered (Date/Time)	≤1 Hour Goal Met?
DN 10/10/14	10/10/14	Yes / No