

May 27, 2016

File: 0063.03936.8

Mr. Brian Finos  
Manager of Facilities  
Charter Development Company  
3850 Broadmoor SE, Suite 201  
Grand Rapids, Michigan 49512

Re: Environmental Assessment – Drinking Water Quality Report  
Regent Park Charter Academy  
15865 East Seven Mile Road, Detroit, Michigan

Dear Mr. Finos:

Rose & Westra, Inc. (R&W) is pleased to present this drinking water quality report with results from the recent sampling and testing for the Regent Park Charter Academy located at 15865 East Seven Mile Road, Detroit, Michigan (the Building). This work was requested due a concern about possible lead contaminates being present in the drinking water supplied to the Building. The water piping system to the Building is maintained by the City of Detroit Water Department and the water within the system is supplied by City of Detroit Water Department.

In summary, none of the tests conducted identified any contaminants exceeding the maximum contaminant levels (MCLs) or the Secondary MCLs allowed by the U. S. Environmental Protection Agency (U.S. EPA) for residential drinking water consumption.

## **Background**

The Building is a multi-story structure constructed in several phases with the original Building completed in 1941 and 1963. Renovations and additions were completed in 2011 using new building materials. The water piping system to the Building is maintained by the City of Detroit Water Department and the water within the system is supplied by City of Detroit Water Department.

## **Drinking Water Sampling**

On May 19, 2016, R&W staff collected water samples from 10 water fixtures in the Building. The fixtures sampled consist of a drinking water fountain station (DFS) located next staff restrooms [DFS-120], DFS located next to staff restrooms [DFS-136], DFS across the hallway from Classroom 165 [DFS-165], DFS located in the Gymnasium [DFS-G101], sink tap in the food prep room (Room G104) [FP-G104], sink tap in the Teacher's Lounge (Room 143) [TL-143], sink tap in Kindergarten Classroom 109 [KS-109], sink tap in Kindergarten

Classroom 110 [KS-110], sink tap in Kindergarten Classroom 112 [KS-112], and sink tap in Kindergarten Classroom 113 [KS-113]. The locations have been illustrated on Figure 1, (Attachment 1). The sampling method used for the drinking water sample collection is known as first draw sampling, with a second sample collected from each location following a flush of the fixture. The first draw method required R&W staff to access the sampling location and flush the fixture to be sampled for a 30-minute period. Flushing the sampling locations was completed at 6:48 pm on May 18, 2016. Once the 30-minute flushing period was completed, R&W allowed each sample location to rest for a minimum of 6 hours. Each sample location was taped off to prevent use. The first draw water sample collection began at 4:32 am on May 19, 2016; thereby allowing for a nearly 9-hour rest period. Once the first draw sample was collected from the sample locations, the fixtures remained on for a 5-minute flush before the flushed sample was collected.

The first draw sample from each sample location has been identified in the sample name. The first draw samples are identified as DFS-120-FD, DFS-136-FD, DFS-165-FD, DFS-G101-FD, FP-G104-FD, TL-143-FD, KS-109-FD, KS-110-FD, KS-112-FD, and KS-113-FD. These water sample locations have been illustrated on Figure 1, Attachment 1.

The flushed sample from each sample location has also been identified in the sample name. The flushed samples are identified as DFS-120-FL, DFS-136-FL, DFS-165-FL, DFS-G101-FL, FP-G104-FL, TL-143-FL, KS-109-FL, KS-110-FL, KS-112-FL, and KS-113-FL. These water sample locations have been illustrated on Figure 1, Attachment 1.

### **Analytical Testing**

Water samples collected by R&W on May 19, 2016 were placed in clean 1,000-ml sample containers (supplied by the lab), labeled, cooled, and stored for transportation. The samples were handled and transported to Prein & Newhof Environmental Laboratory, Inc. (Prein & Newhof Laboratory; Grand Rapids, Michigan) under chain-of-custody records using U.S. EPA and Michigan Department of Environmental Quality (MDEQ) recommended methods. The water samples were tested for several heavy metals (copper, iron, and lead). A copy of the laboratory report has been included in Attachment 2. The Prein & Newhof Laboratory has MDEQ Drinking Water Certification for testing water samples.

### **Evaluation of Testing Results**

All of the lead results were reported as below the method detection limit (MDL) of <0.003 mg/L. These reported results are also below the MCL of 0.015 mg/L.

Trace copper levels were reported in most water samples collected. The reported copper concentrations ranged from <0.010 mg/l to 0.103 mg/L; however, all reported concentrations are well below the MCL of 1.300 mg/L.

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May 27, 2016  
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Trace iron levels were reported in all water samples collected. The reported iron concentrations ranged from 0.012 mg/L to 0.031 mg/L. The Secondary MCL for iron has been established at 0.300 mg/L for taste and color. All reported sample results were below the Secondary MCL for iron.

### **Conclusions**

Based on the water sampling and chemical analyses conducted, none of the tests conducted identified any contaminants that exceeded the MCLs or Secondary MCLs allowed by the U. S. EPA for residential drinking water consumption.

If you have any questions regarding the information or data presented in this letter, please feel free to contact our staff.

Sincerely,

ROSE & WESTRA, INC.

A handwritten signature in blue ink, appearing to read 'William J. Bosze', is written over the printed name.

William J. Bosze, P.E.

wjb/jac

Attachments:

Attachment 1: Figure 1 – Floor Plan – Sample Locations – May 19, 2016

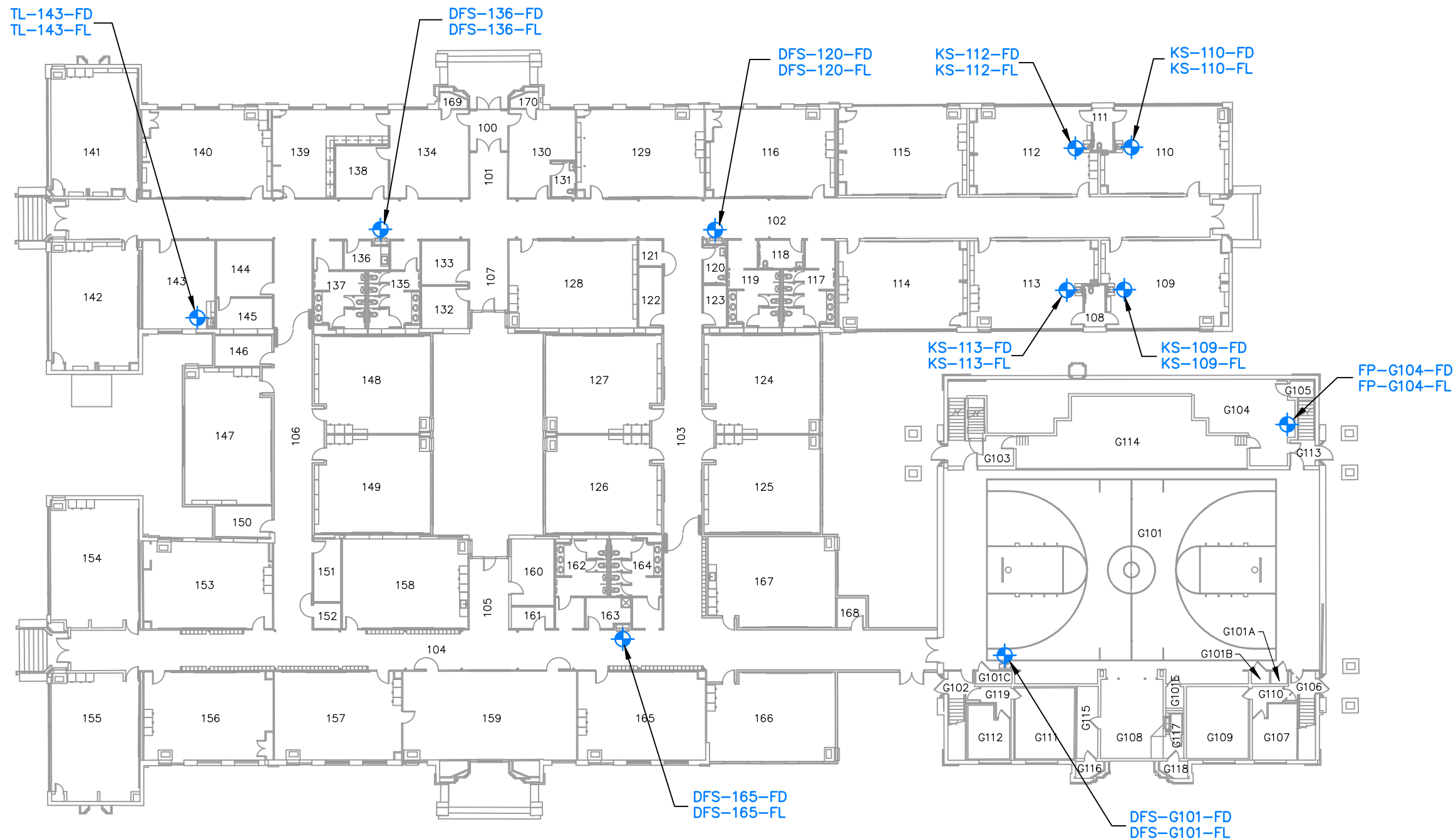
Attachment 2: Prein & Newhof Laboratory Report

*Sent via Email Only*

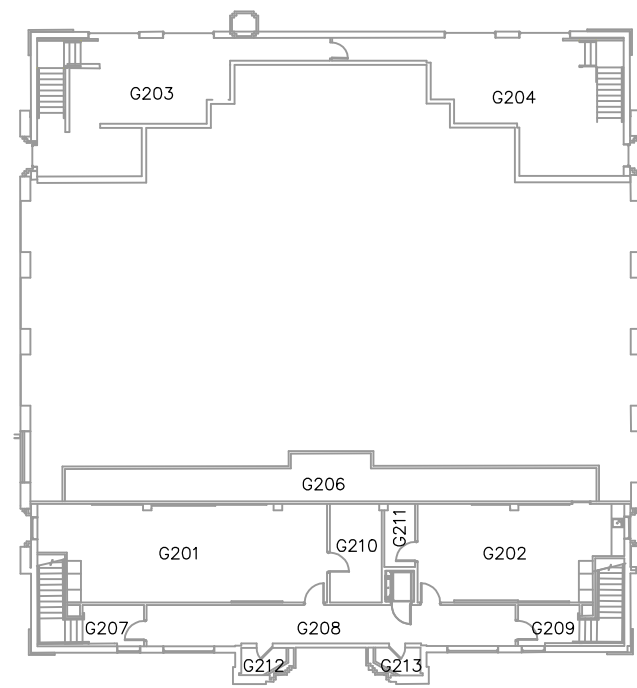
**ATTACHMENT 1**

**FIGURE 1**

**DRINKING WATER SAMPLE LOCATIONS – MAY 19, 2016**



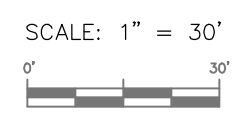
FIRST FLOOR PLAN



SECOND FLOOR PLAN

LEGEND

= WATER SAMPLE LOCATION



FLOOR PLANS - SAMPLE LOCATIONS 5/19/16				
 NORTH ORIENTATION	 <b>ROSE &amp; WESTRA, INC.</b> ENVIRONMENTAL CONSULTANTS Grand Rapids, Michigan	<b>NATIONAL HERITAGE ACADEMIES</b> REGENT PARK SCHOLARS 15065 EAST SEVEN MILE RD, DETROIT, MICHIGAN <b>DRINKING WATER TESTING</b>		PROJECT NO. 0063.03936.8
				<b>1</b> FIGURE NO.
CREATED BY: KJB	APPROVED BY: WJB	DATE: 5/25/16	FILE NAME: 039368_REGENTP_DWT	

**ATTACHMENT 2**

**PREIN & NEWHOF LABORATORY REPORT**

**Customer Name:** Rose & Westra, Inc.  
4328 3 Mile Rd NW  
Grand Rapids, MI 49544

**Contact Name:** Rose & Westra, Inc.  
4328 3 Mile Rd NW  
Grand Rapids, MI 49544

**Project:** 0063.03936.8

**Project No:** 2160001

**Lab Order:** 1605629

**Matrix:** DRINKING WATER  
**Sampled By:** W.B.

**Lab ID:** 1605629-001A  
**Client Sample ID:** TL-143-FD

**Collection Date:** 5/19/2016 4:32 am  
**Received Date:** 5/19/2016 11:50 am

Analyses	Result	Units	RPT Limit	M.C.L.	Analyst	Date Analyzed	Method #
Copper	< 0.010	mg/L	0.010	1.3	SB	5/24/2016	EPA 200.7
Iron	0.012	mg/L	0.006		SB	5/24/2016	EPA 200.7
Lead	< 0.003	mg/L	0.003	0.015	SB	5/23/2016	SM3113B

**Lab ID:** 1605629-002A  
**Client Sample ID:** TL-143-FL

**Collection Date:** 5/19/2016 4:37 am  
**Received Date:** 5/19/2016 11:50 am

Analyses	Result	Units	RPT Limit	M.C.L.	Analyst	Date Analyzed	Method #
Copper	< 0.010	mg/L	0.010	1.3	SB	5/24/2016	EPA 200.7
Iron	0.012	mg/L	0.006		SB	5/24/2016	EPA 200.7
Lead	< 0.003	mg/L	0.003	0.015	SB	5/23/2016	SM3113B

**Lab ID:** 1605629-003A  
**Client Sample ID:** DFS-136-FD

**Collection Date:** 5/19/2016 4:34 am  
**Received Date:** 5/19/2016 11:50 am

Analyses	Result	Units	RPT Limit	M.C.L.	Analyst	Date Analyzed	Method #
Copper	0.090	mg/L	0.010	1.3	SB	5/24/2016	EPA 200.7
Iron	0.029	mg/L	0.006		SB	5/24/2016	EPA 200.7
Lead	< 0.003	mg/L	0.003	0.015	SB	5/23/2016	SM3113B

**Lab ID:** 1605629-004A  
**Client Sample ID:** DFS-136-FL

**Collection Date:** 5/19/2016 4:39 am  
**Received Date:** 5/19/2016 11:50 am

Analyses	Result	Units	RPT Limit	M.C.L.	Analyst	Date Analyzed	Method #
Copper	0.020	mg/L	0.010	1.3	SB	5/24/2016	EPA 200.7
Iron	0.022	mg/L	0.006		SB	5/24/2016	EPA 200.7
Lead	< 0.003	mg/L	0.003	0.015	SB	5/23/2016	SM3113B

**Lab ID:** 1605629-005A  
**Client Sample ID:** KS-112-FD

**Collection Date:** 5/19/2016 4:43 am  
**Received Date:** 5/19/2016 11:50 am

Analyses	Result	Units	RPT Limit	M.C.L.	Analyst	Date Analyzed	Method #
Copper	0.015	mg/L	0.010	1.3	SB	5/24/2016	EPA 200.7
Iron	0.019	mg/L	0.006		SB	5/24/2016	EPA 200.7
Lead	< 0.003	mg/L	0.003	0.015	SB	5/23/2016	SM3113B

Project: 0063.03936.8

Project No: 2160001

Lab Order: 1605629

Matrix: DRINKING WATER

Sampled By: W.B.

Lab ID: 1605629-006A

Collection Date: 5/19/2016 4:48 am

Client Sample ID: KS-112-FL

Received Date: 5/19/2016 11:50 am

Analyses	Result	Units	RPT Limit	M.C.L.	Analyst	Date Analyzed	Method #
Copper	< 0.010	mg/L	0.010	1.3	SB	5/24/2016	EPA 200.7
Iron	0.017	mg/L	0.006		SB	5/24/2016	EPA 200.7
Lead	< 0.003	mg/L	0.003	0.015	SB	5/23/2016	SM3113B

Lab ID: 1605629-007A

Collection Date: 5/19/2016 4:45 am

Client Sample ID: KS-110-FD

Received Date: 5/19/2016 11:50 am

Analyses	Result	Units	RPT Limit	M.C.L.	Analyst	Date Analyzed	Method #
Copper	0.016	mg/L	0.010	1.3	SB	5/24/2016	EPA 200.7
Iron	0.016	mg/L	0.006		SB	5/24/2016	EPA 200.7
Lead	< 0.003	mg/L	0.003	0.015	SB	5/23/2016	SM3113B

Lab ID: 1605629-008A

Collection Date: 5/19/2016 4:50 am

Client Sample ID: KS-110-FL

Received Date: 5/19/2016 11:50 am

Analyses	Result	Units	RPT Limit	M.C.L.	Analyst	Date Analyzed	Method #
Copper	< 0.010	mg/L	0.010	1.3	SB	5/24/2016	EPA 200.7
Iron	0.014	mg/L	0.006		SB	5/24/2016	EPA 200.7
Lead	< 0.003	mg/L	0.003	0.015	SB	5/23/2016	SM3113B

Lab ID: 1605629-009A

Collection Date: 5/19/2016 4:51 am

Client Sample ID: KS-109-FD

Received Date: 5/19/2016 11:50 am

Analyses	Result	Units	RPT Limit	M.C.L.	Analyst	Date Analyzed	Method #
Copper	0.013	mg/L	0.010	1.3	SB	5/24/2016	EPA 200.7
Iron	0.014	mg/L	0.006		SB	5/24/2016	EPA 200.7
Lead	< 0.003	mg/L	0.003	0.015	SB	5/23/2016	SM3113B

Lab ID: 1605629-010A

Collection Date: 5/19/2016 4:56 am

Client Sample ID: KS-109-FL

Received Date: 5/19/2016 11:50 am

Analyses	Result	Units	RPT Limit	M.C.L.	Analyst	Date Analyzed	Method #
Copper	< 0.010	mg/L	0.010	1.3	SB	5/24/2016	EPA 200.7
Iron	0.013	mg/L	0.006		SB	5/24/2016	EPA 200.7
Lead	< 0.003	mg/L	0.003	0.015	SB	5/23/2016	SM3113B

Lab ID: 1605629-011A

Collection Date: 5/19/2016 4:53 am

Client Sample ID: KS-113-FD

Received Date: 5/19/2016 11:50 am

Analyses	Result	Units	RPT Limit	M.C.L.	Analyst	Date Analyzed	Method #
Copper	0.012	mg/L	0.010	1.3	SB	5/24/2016	EPA 200.7
Iron	0.014	mg/L	0.006		SB	5/24/2016	EPA 200.7
Lead	< 0.003	mg/L	0.003	0.015	SB	5/23/2016	SM3113B

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Project: 0063.03936.8

Project No: 2160001

Lab Order: 1605629

Matrix: DRINKING WATER

Sampled By: W.B.

Lab ID: 1605629-012A  
Client Sample ID: KS-113-FL

Collection Date: 5/19/2016 4:58 am  
Received Date: 5/19/2016 11:50 am

Analyses	Result	Units	RPT Limit	M.C.L.	Analyst	Date Analyzed	Method #
Copper	< 0.010	mg/L	0.010	1.3	SB	5/24/2016	EPA 200.7
Iron	0.013	mg/L	0.006		SB	5/24/2016	EPA 200.7
Lead	< 0.003	mg/L	0.003	0.015	SB	5/23/2016	SM3113B

Lab ID: 1605629-013A  
Client Sample ID: DFS-120-FD

Collection Date: 5/19/2016 5:01 am  
Received Date: 5/19/2016 11:50 am

Analyses	Result	Units	RPT Limit	M.C.L.	Analyst	Date Analyzed	Method #
Copper	0.084	mg/L	0.010	1.3	SB	5/24/2016	EPA 200.7
Iron	0.031	mg/L	0.006		SB	5/24/2016	EPA 200.7
Lead	< 0.003	mg/L	0.003	0.015	SB	5/23/2016	SM3113B

Lab ID: 1605629-014A  
Client Sample ID: DFS-120-FL

Collection Date: 5/19/2016 5:06 am  
Received Date: 5/19/2016 11:50 am

Analyses	Result	Units	RPT Limit	M.C.L.	Analyst	Date Analyzed	Method #
Copper	0.012	mg/L	0.010	1.3	SB	5/24/2016	EPA 200.7
Iron	0.020	mg/L	0.006		SB	5/24/2016	EPA 200.7
Lead	< 0.003	mg/L	0.003	0.015	SB	5/23/2016	SM3113B

Lab ID: 1605629-015A  
Client Sample ID: DFS-165-FD

Collection Date: 5/19/2016 5:04 am  
Received Date: 5/19/2016 11:50 am

Analyses	Result	Units	RPT Limit	M.C.L.	Analyst	Date Analyzed	Method #
Copper	0.090	mg/L	0.010	1.3	SB	5/24/2016	EPA 200.7
Iron	0.019	mg/L	0.006		SB	5/24/2016	EPA 200.7
Lead	< 0.003	mg/L	0.003	0.015	SB	5/23/2016	SM3113B

Lab ID: 1605629-016A  
Client Sample ID: DFS-165-FL

Collection Date: 5/19/2016 5:09 am  
Received Date: 5/19/2016 11:50 am

Analyses	Result	Units	RPT Limit	M.C.L.	Analyst	Date Analyzed	Method #
Copper	0.020	mg/L	0.010	1.3	SB	5/24/2016	EPA 200.7
Iron	0.018	mg/L	0.006		SB	5/24/2016	EPA 200.7
Lead	< 0.003	mg/L	0.003	0.015	SB	5/23/2016	SM3113B

Lab ID: 1605629-017A  
Client Sample ID: DFS-G101-FD

Collection Date: 5/19/2016 5:13 am  
Received Date: 5/19/2016 11:50 am

Analyses	Result	Units	RPT Limit	M.C.L.	Analyst	Date Analyzed	Method #
Copper	0.098	mg/L	0.010	1.3	SB	5/24/2016	EPA 200.7
Iron	0.016	mg/L	0.006		SB	5/24/2016	EPA 200.7
Lead	< 0.003	mg/L	0.003	0.015	SB	5/23/2016	SM3113B

Prein&Newhof

Project: 0063.03936.8

Project No: 2160001

Lab Order: 1605629

Matrix: DRINKING WATER

Sampled By: W.B.

Lab ID: 1605629-018A  
Client Sample ID: DFS-G101-FL

Collection Date: 5/19/2016 5:18 am  
Received Date: 5/19/2016 11:50 am

Analyses	Result	Units	RPT Limit	M.C.L.	Analyst	Date Analyzed	Method #
Copper	0.019	mg/L	0.010	1.3	SB	5/24/2016	EPA 200.7
Iron	0.014	mg/L	0.006		SB	5/24/2016	EPA 200.7
Lead	< 0.003	mg/L	0.003	0.015	SB	5/23/2016	SM3113B

Lab ID: 1605629-019A  
Client Sample ID: FP-G104-FD

Collection Date: 5/19/2016 5:15 am  
Received Date: 5/19/2016 11:50 am

Analyses	Result	Units	RPT Limit	M.C.L.	Analyst	Date Analyzed	Method #
Copper	0.103	mg/L	0.010	1.3	SB	5/24/2016	EPA 200.7
Iron	0.014	mg/L	0.006		SB	5/24/2016	EPA 200.7
Lead	< 0.003	mg/L	0.003	0.015	SB	5/23/2016	SM3113B

Lab ID: 1605629-020A  
Client Sample ID: FP-G104-FL

Collection Date: 5/19/2016 5:20 am  
Received Date: 5/19/2016 11:50 am

Analyses	Result	Units	RPT Limit	M.C.L.	Analyst	Date Analyzed	Method #
Copper	< 0.010	mg/L	0.010	1.3	SB	5/24/2016	EPA 200.7
Iron	0.014	mg/L	0.006		SB	5/24/2016	EPA 200.7
Lead	< 0.003	mg/L	0.003	0.015	SB	5/23/2016	SM3113B

Prein&Newhof

# Prein & Newhof

Engineers ■ Surveyors ■ Environmental ■ Laboratory

3260 Evergreen Drive NE  
Grand Rapids, MI 49525

t. 616-364-7600  
f. 616-364-4222

Air	A
Drinking Water	D
Groundwater	W
Soil	S
Sludge	L
Oil	O
Other	X

Client: Rose & Westra Inc

Project Name: 0063.03936.8

Project #: 0063.03936.8

Send Results to: William Bosze

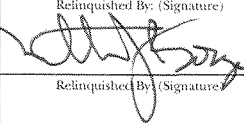

Sampling Personnel: William Bosze

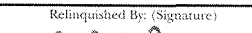


wjbosze@rosewestra.com

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## CHAIN OF CUSTODY

Lab Use		Sample Information			Preservative							Analysis Requested														
Lab Sample ID #	Date	Time	Sample Description and Location (e.g. MW-1)	MATRIX	None	H2SO4	HNO3	HCl	NaOH	Other	Lead	Copper	Iron													
SG29-1	5/19/16	4:32a	TL-143-FD	D	X						X	X	X													
2	5/19/16	4:37a	TL-143-FL	D	X						X	X	X													
3	5/19/16	4:34a	DFS-136-FD	D	X						X	X	X													
4	5/19/16	4:39a	DFS-136-FL	D	X						X	X	X													
5	5/19/16	4:43a	KS-112-FD	D	X						X	X	X													
6	5/19/16	4:48a	KS-112-FL	D	X						X	X	X													
7	5/19/16	4:45a	KS-110-FD	D	X						X	X	X													
8	5/19/16	4:50a	KS-110-FL	D	X						X	X	X													
9	5/19/16	4:51a	KS-109-FD	D	X						X	X	X													
10	5/19/16	4:56a	KS-109-FL	D	X						X	X	X													
Comments:																										

Relinquished By: (Signature) 	Date 5/19/16	Time 11:50a	Received By: (Signature)	Date	Time	Relinquished By: (Signature)	Date	Time	Received By: (Signature)	Date	Time
Relinquished By: (Signature)	Date	Time	Received By: (Signature)	Date	Time	Method of Shipment:			Bill of Lading:		
Received for Laboratory By: 	Date 5/19/16	Time 11:20	Data Package Relinquished By:	Date	Time	Data Received By:	Date	Time	No. 31460		

Relinquished By: (Signature) 	Date 5/19/16	Time 11:50a	Received By: (Signature)	Date	Time	Relinquished By: (Signature)	Date	Time	Received By: (Signature)	Date	Time
Relinquished By: (Signature) 	Date	Time	Received By: (Signature)	Date	Time	Method of Shipment:			Bill of Lading:		
Received for Laboratory By: 	Date 5/19/16	Time 11:52a	Data Package Relinquished By:	Date	Time	Data Received By:	Date	Time	No. 31461		