

2016 WATER QUALITY REPORT

COMMUNITY WATER SUPPLY TESTING

COMMUNITY CONSOLIDATED SCHOOL DISTRICT 181
PROSPECT ELEMENTARY SCHOOL
130 N. PROSPECT AVENUE
CLARENDON HILLS, ILLINOIS
IES NO. 915-16



INTEGRITY

ENVIRONMENTAL SERVICES, INC.

1240 IROQUOIS DRIVE
SUITE 102
NAPERVILLE, IL 60563

630-718-9133
FAX 630-718-9114

April 28, 2016

C-11805

Mr. Mike Duggan
Facilities Coordinator
Community Consolidated School District 181
115 West 55th Street
Clarendon Hills, Illinois 60514

Dear Mr. Duggan:

Final Report
Community Water Supply Testing
Community Consolidated School District 181
Prospect Elementary School
130 N. Prospect Avenue
Clarendon Hills, Illinois
IES No. 915-16

Integrity Environmental Services, Inc. has completed this final Community Water Supply Testing Report for the above referenced School District facility. One (1) original and one (1) copy of the Report have been provided.

This Report has been prepared based on laboratory analysis data from water samples collected during our April 1, 2016 sampling event.

Opinions made or formed, other than those expressed herein are those of the reader and in no way shall obligate Integrity Environmental Services, Inc. The findings presented in this Report are representative of the date and times that the samples were collected. The findings presented herein should not be used or relied upon to evaluate the water quality sample data obtained at significantly later dates.

If you have any questions, please feel free to contact our office at (630) 718-9133.

INTEGRITY ENVIRONMENTAL SERVICES, INC.

Mark J. Ravanese
President

MJR/ks

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1. PROJECT NARRATIVE
2. 2016 SAMPLE RESULTS, CHAIN-OF-CUSTODY AND LABORATORY FORMS
3. SAMPLE LOCATION DIAGRAM

PROJECT NARRATIVE

2016 WATER QUALITY REPORT

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COMMUNITY CONSOLIDATED SCHOOL DISTRICT 181
PROSPECT ELEMENTARY SCHOOL
130 N. PROSPECT AVENUE
CLARENDON HILLS, ILLINOIS
IES NO. 915-16

INTRODUCTION:

This 2016 Water Quality Report has been prepared on behalf of Community Consolidated School District 181 (the Owner) to summarize the Community Water Supply Testing conducted at the Prospect Elementary School located in Clarendon Hills, Illinois. The subject school is part of a Community Water System (CWS) as defined by the Environmental Protection Agency (EPA) and the Illinois Department of Public Health (IDPH). A Community Water System is further defined as a public water system that supplies water to the same population year-round.

SAMPLING SUMMARY:

The United States Environmental Protection Agency (USEPA) has adopted regulations which require all Community Water Supply Systems be analyzed for a wide range of chemicals and potential contaminants. This testing work is required to ensure clean drinking water to all inhabitants. The required testing is regularly performed by the EPA and/or system operators, usually at the source and/or point of treatment.

When the need arises, sampling may also be performed by the end user to ensure that the water being supplied has not been contaminated in route. The sampled water may then be tested for one or more of the many possible contaminants.

During this sampling event, the parameters of this potable water testing at Prospect Elementary School consisted of one (1) sample for Arsenic analysis and five (5) samples for Lead and Copper analysis. While the samples collected during this sampling event were not requested by any Federal, State, or local regulatory agency, when collected, the Arsenic sample is required to be collected from a location that is considered a consistent potable or drinking water source such as a cafeteria sink. The Lead and Copper samples are also required to be collected from locations that are considered a consistent potable or drinking water source, such as a classroom sink and water fountains.

The water sample location sources are noted on the sample location drawing and on the sample chain-of-custody form included with this Report in Section 2.

SAMPLING METHODOLOGY:

Integrity Environmental Services, Inc. (IES) was contracted by the Owner to conduct the potable water sampling at Prospect Elementary School. The water sampling was conducted on April 1, 2016. These samples were collected from various sites throughout the school, including a drinking fountain located in the hallway outside of the gymnasium (Room 108), a sink located in the Staff Lounge (Room 104), a drinking fountain outside of the restrooms located between Classrooms 117 and 119, a drinking fountain located in the hallway across from Room 209, and a sink in the boys' restroom located adjacent to Classroom 215. As required by the sampling methodology for Lead and Copper, all sampling locations were allowed to settle for more than six (6) hours prior to sampling. After settling, samples were then collected by drawing water from the source directly into the pre-labeled/pre-preserved sampling containers.

Following the collection of the Lead and Copper samples, the Arsenic sample was (as required) collected by drawing water from the source directly into a pre-labeled/pre-preserved sampling container. The sample was collected from the drinking fountain located in the hallway outside of the gymnasium (Room 108). After sample collection, sampling containers for both Arsenic and Lead and Copper were placed directly into an iced cooler for transportation to an accredited analytical laboratory.

ANALYTICAL RESULTS:

The Community Water Supply testing at Community Consolidated School District 181, Prospect Elementary School facility revealed no elevated levels of Arsenic or Lead and Copper in the water samples. All sample results were below the acceptable levels set forth by the EPA and IDPH.

CONCLUSIONS:

There were no elevated levels of the subject testing constituents discovered during the Community Water Supply sampling activities.



Analytical Report

April 22, 2016

Mark Ravanesi
Integrity Env. Services, Inc.
1240 Iroquois Drive
Naperville, IL 60563-8538

Work Order: 16D0308

RE: Drinking Water
Prospect Elementary School

Dear Mark Ravanesi:

Enclosed are the analytical reports for the EMT Work Order listed. Also included with this analytical report is a copy of the chain of custody associated with these samples. If you have any questions, please contact me.

This is a revised report please see case narrative

Sincerely,

Jason Cristino
Groundwater Project Manager
847.967.6666
JCristino@emt.com
Approved for release: 4/22/2016 4:36:04PM

Approved by,

Matthew Gregory
Technical Manager

The contents of this report apply to the sample(s) analyzed. No duplication is allowed except in its entirety. Detection and Reporting limits are adjusted for sample size used, dilutions and moisture content, if applicable.

State of Illinois, NELAP Accredited Lab No. 100256, Cert No. 003674



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Sample Summary

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PROS-01	16D0308-01	Drinking Water	04/01/16 00:00	04/05/16 13:30
PROS-02	16D0308-02	Drinking Water	04/01/16 00:00	04/05/16 13:30
PROS-03	16D0308-03	Drinking Water	04/01/16 00:00	04/05/16 13:30
PROS-04	16D0308-04	Drinking Water	04/01/16 00:00	04/05/16 13:30
PROS-05	16D0308-05	Drinking Water	04/01/16 00:00	04/05/16 13:30



Case Narrative

Client: Integrity Env. Services, Inc.

Date: 04/22/2016

Project: Drinking Water

Prospect Elementary School

Work Order: 16D0308

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

Sample results only relate to the sample(s) received at the laboratory and analytes of interest tested.

Work Order: 16D0308

The samples were received on 04/05/16 13:30. The samples arrived in good condition and properly preserved. The temperature of the cooler at receipt was

Cooler	Temp C°
Default Cooler	4.2

Refer to Qualifiers and Definitions for quality and analytical clarifications or deviations.

Revised Report:

The samples for Arsenic were re-run due to a blank contamination



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Client Sample Results

Client: Integrity Env. Services, Inc.
Project: Drinking Water
Prospect Elementary School
Work Order: 16D0308

Client Sample ID: PROS-01
Report Date: 04/22/2016
Collection Date: 04/01/2016 00:00
Matrix: Drinking Water
Lab ID: 16D0308-01

Analyses	Result	EMT	Qual	Units	Reg	MDL	Date/Time	Batch	Analyst	DF
		Reporting Limit			Limit		Analyzed			
Metals by ICP-MS										
Method: E200.8										
Arsenic	< 0.0100	0.0100		mg/L	0.01	0.0000800	04/21/16 11:21	B6D0705	AG	2
Copper	0.252	0.0312		mg/L	1.3	0.00375	04/06/16 18:24	B6D0156	AG	5
Lead	< 0.0150	0.0150		mg/L	0.015	0.000750	04/06/16 18:24	B6D0156	AG	5



Client Sample Results

(Continued)

Client: Integrity Env. Services, Inc.
Project: Drinking Water
Prospect Elementary School
Work Order: 16D0308

Client Sample ID: PROS-02
Report Date: 04/22/2016
Collection Date: 04/01/2016 00:00
Matrix: Drinking Water
Lab ID: 16D0308-02

Analyses	Result	EMT	Qual	Units	Reg	MDL	Date/Time Analyzed	Batch	Analyst	DF
		Reporting Limit			Limit					
Metals by ICP-MS										
Method: E200.8										
Copper	0.231	0.0312		mg/L	1.3	0.00375	04/06/16 18:22	B6D0156	AG	5
Lead	< 0.0150	0.0150		mg/L	0.015	0.000750	04/06/16 18:22	B6D0156	AG	5



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Client Sample Results

(Continued)

Client: Integrity Env. Services, Inc.
Project: Drinking Water
Prospect Elementary School
Work Order: 16D0308

Client Sample ID: PROS-03
Report Date: 04/22/2016
Collection Date: 04/01/2016 00:00
Matrix: Drinking Water
Lab ID: 16D0308-03

Analyses	Result	EMT	Qual	Units	Reg	MDL	Date/Time Analyzed	Batch	Analyst	DF
		Reporting Limit			Limit					
Metals by ICP-MS										
	Method: E200.8									
Copper	0.255	0.0312		mg/L	1.3	0.00375	04/06/16 18:37	B6D0156	AG	5
Lead	< 0.0150	0.0150		mg/L	0.015	0.000750	04/06/16 18:37	B6D0156	AG	5



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Client Sample Results
(Continued)

Client: Integrity Env. Services, Inc.
Project: Drinking Water
Prospect Elementary School
Work Order: 16D0308

Client Sample ID: PROS-04
Report Date: 04/22/2016
Collection Date: 04/01/2016 00:00
Matrix: Drinking Water
Lab ID: 16D0308-04

Analyses	Result	EMT	Qual	Units	Reg	MDL	Date/Time	Batch	Analyst	DF
		Reporting Limit			Limit		Analyzed			
Metals by ICP-MS										
	Method: E200.8									
Copper	0.523	0.0312		mg/L	1.3	0.00375	04/06/16 18:39	B6D0156	AG	5
Lead	< 0.0150	0.0150		mg/L	0.015	0.000750	04/06/16 18:39	B6D0156	AG	5



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Client Sample Results

(Continued)

Client: Integrity Env. Services, Inc.
Project: Drinking Water
Prospect Elementary School
Work Order: 16D0308

Client Sample ID: PROS-05
Report Date: 04/22/2016
Collection Date: 04/01/2016 00:00
Matrix: Drinking Water
Lab ID: 16D0308-05

Analyses	Result	EMT	Qual	Units	Reg	MDL	Date/Time Analyzed	Batch	Analyst	DF
		Reporting Limit			Limit					
Metals by ICP-MS										
Method: E200.8										
Copper	0.170	0.0312		mg/L	1.3	0.00375	04/06/16 18:41	B6D0156	AG	5
Lead	< 0.0150	0.0150		mg/L	0.015	0.000750	04/06/16 18:41	B6D0156	AG	5



Dates Report

Client: Integrity Env. Services, Inc.
Project: Drinking Water
Prospect Elementary School
Work Order: 16D0308

Report Date: 04/22/2016

Sample ID	Client Sample ID	Collection	Matrix	Test Name	Leached Prep Date	Prep Date	Analysis Date	Batch ID	Sequence
16D0308-01	PROS-01	04/01/16	Drinking Water	Lead, Total ICP-MS		04/06/16 12:58	04/06/16 18:24	B6D0156	S6D0075
				Copper, Total ICP-MS		04/06/16 12:58	04/06/16 18:24		
				Arsenic, Total ICP-MS		04/21/16 09:22	04/21/16 11:21	B6D0705	S6D0292
16D0308-02	PROS-02			Lead, Total ICP-MS		04/06/16 12:58	04/06/16 18:22	B6D0156	S6D0075
				Copper, Total ICP-MS		04/06/16 12:58	04/06/16 18:22		
16D0308-03	PROS-03			Lead, Total ICP-MS		04/06/16 12:58	04/06/16 18:37		
				Copper, Total ICP-MS		04/06/16 12:58	04/06/16 18:37		
16D0308-04	PROS-04			Lead, Total ICP-MS		04/06/16 12:58	04/06/16 18:39		
				Copper, Total ICP-MS		04/06/16 12:58	04/06/16 18:39		
16D0308-05	PROS-05			Lead, Total ICP-MS		04/06/16 12:58	04/06/16 18:41		
				Copper, Total ICP-MS		04/06/16 12:58	04/06/16 18:41		



Quality Control

Client: Integrity Env. Services, Inc.
Project: Drinking Water
Prospect Elementary School
Work Order: 16D0308

Report Date: 04/22/2016
Matrix: Drinking Water

Metals by ICP-MS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
Batch: B6D0156											
Blank (B6D0156-BLK1)											
Prepared: 04/06/2016 12:58 Analyzed: 04/06/2016 17:50											
Arsenic	< 0.0312	0.0312	mg/L								5
Copper	< 0.0312	0.0312	mg/L								5
Lead	< 0.0312	0.0312	mg/L								5
LCS (B6D0156-BS1)											
Prepared: 04/06/2016 12:58 Analyzed: 04/06/2016 17:52											
Arsenic	1.10	0.0312	mg/L	1.250		88.0	85-115				5
Copper	1.31	0.0312	mg/L	1.250		105	91.6-112				5
Lead	1.31	0.0312	mg/L	1.250		105	85-115				5
Matrix Spike (B6D0156-MS1)											
Source: 16D0308-01 Prepared: 04/06/2016 12:58 Analyzed: 04/06/2016 18:32											
Arsenic	1.12	0.0312	mg/L	1.250	0.0129	88.8	70-130				5
Copper	1.53	0.0312	mg/L	1.250	0.252	102	70-130				5
Lead	1.33	0.0312	mg/L	1.250	ND	106	70-130				5
Matrix Spike (B6D0156-MS2)											
Source: 16D0309-05 Prepared: 04/06/2016 12:58 Analyzed: 04/06/2016 19:00											
Arsenic	1.12	0.0312	mg/L	1.250	ND	89.7	70-130				5
Copper	1.49	0.0312	mg/L	1.250	0.247	99.8	70-130				5
Lead	1.30	0.0312	mg/L	1.250	0.00150	104	70-130				5
Matrix Spike Dup (B6D0156-MSD1)											
Source: 16D0308-01 Prepared: 04/06/2016 12:58 Analyzed: 04/06/2016 18:34											
Arsenic	1.13	0.0312	mg/L	1.250	0.0129	89.5	70-130	0.674	20		5
Copper	1.52	0.0312	mg/L	1.250	0.252	101	70-130	0.604	20		5
Lead	1.30	0.0312	mg/L	1.250	ND	104	70-130	1.94	20		5
Matrix Spike Dup (B6D0156-MSD2)											
Source: 16D0309-05 Prepared: 04/06/2016 12:58 Analyzed: 04/06/2016 19:02											
Arsenic	1.14	0.0312	mg/L	1.250	ND	90.9	70-130	1.37	20		5
Copper	1.52	0.0312	mg/L	1.250	0.247	102	70-130	1.64	20		5
Lead	1.30	0.0312	mg/L	1.250	0.00150	104	70-130	0.489	20		5
Batch: B6D0705											
Blank (B6D0705-BLK1)											
Prepared: 04/21/2016 09:22 Analyzed: 04/21/2016 11:06											
Arsenic	< 0.0100	0.0100	mg/L								2
LCS (B6D0705-BS1)											
Prepared: 04/21/2016 09:22 Analyzed: 04/21/2016 11:08											
Arsenic	0.101	0.0100	mg/L	0.1000		101	85-115				1
Post Spike (B6D0705-PS1)											
Source: 16D0304-01RE1 Prepared: 04/21/2016 09:22 Analyzed: 04/21/2016 11:12											
Arsenic	0.109	0.0100	mg/L	0.1000	0.000720	109	80-120				1



Certified Analyses included in this Report

Analyte	CAS #	Certifications
E200.8 in Drinking Water		
Arsenic	7440-38-2	ILEPA
Copper	7440-50-8	ILEPA
Lead	7439-92-1	ILEPA

List of Certifications

Code	Description	Number	Expires
AKDEC	State of Alaska, Dept. Environmental Conservation	UST-105	07/16/2016
CPSC	US Consumer Product Safety Commission, Accredited by PJLA Lab No. 1050	L14-56	04/30/2016
DoD	Department of Defense, Accredited by PJLA	L14-55	04/30/2016
ILEPA	State of Illinois, NELAP Accredited Lab No. 100256	003674	07/27/2016
ISO	ISO/IEC 17025, Accredited by PJLA	L14-56	04/30/2016
LELAP	State of Louisiana, NELAP Accredited Lab No. 171344	05015	06/30/2016
WDNR	State of Wisconsin Dept of Natural Resources	999888890	08/31/2016



Environmental
Monitoring and
Technologies, Inc.

8100 N. Austin Avenue Morton Grove, IL 60053-3203 P 847.967.6666 800.246.0663 F 847.967.6735 www.emt.com

Qualifiers and Definitions

Item	Description
%Rec	Percent Recovery



ENVIRONMENTAL MONITORING AND TECHNOLOGIES, INC.

8100 North Austin Avenue
Morton Grove, Illinois 60053-3203



16D0308
PM Jason Cristino
Integrity Env. Services, Inc.
Drinking Water

Today Record

TURNAROUND TIME:

☐ RUSH

____ day turnaround

☒ ROUTINE

www.emt.com

Due Date: ____ - ____ - ____ COC #: 148694

Company: INTEGRITY ENVIRONMENTAL

Address: 1240 PRODUIS RD., STE. 102

MAFARVILLE, IL 60563

Phone #: (630) 718-9133

Fax #: (630) 718-9114

P.O. #: 915-16

Proj. #: 915-16

Client Contact: MAMC RAVARSI

Project ID / Location: PROSPECT ELEMENTARY SCHOOL

Sample Type:

- | | | |
|-------------------|----------------|---------------------------|
| 1. Waste Water | 4. Sludge | 7. Groundwater (filtered) |
| 2. Drinking Water | 5. Oil | 8. Other |
| 3. Soil | 6. Groundwater | |

Container Type:

- | | | |
|-------------|----------------|-----------|
| P - Plastic | V - VOC Vial | O - Other |
| G - Glass | B - Tedlar Bag | |

Preservative:

- | | | |
|-----------------------------------|---------|-----------|
| 1. None | 4. NaOH | 7. Zn Ace |
| 2. H ₂ SO ₄ | 5. HCl | 8. Other |
| 3. HNO ₃ | 6. MeOH | |

Analyses

EMT
USE
ONLY

EMT
WORKORDER

#16D0308

Sample I.D.	Sample Type	Container			Sampling					Preservation	
		Size	Type	No.	By	Date	Time	pH	Temp.	Field	Lab
PROS-01	2	250ml	P	1	MM	4-1-16	A.M.	N/A	51.9	3	
02									22.5		
03									52.1		
04									52.4		
05									24.8		

LEAD
COPPER
ARSENIC

01A
02A
03A
04A
05A

Relinquished By:

Date: 4-5-16

Time: 1:30p

Received By:

Date: - -

Time: - -

EMT USE ONLY

Client Code:

Relinquished By:

Date: - -

Time: - -

Received By:

Date: - -

Time: - -

EMT Project I.D.

Relinquished By:

Date: - -

Time: - -

Received For Lab By:

Date: 4-5-16

Time: 13:30

Jar Lot No

☒ SAMPLE RECEIVED
ON ICE

☐ TEMPERATURE
(Must be recorded if sampling
was greater than 6 hrs. prior to
sample receipt)

4.2

EMT SAMPLE RETURN
POLICY ON BACK

SPECIAL INSTRUCTIONS:



SECOND FLOOR