## **2016 WATER QUALITY REPORT**

## **COMMUNITY WATER SUPPLY TESTING**

COMMUNITY CONSOLIDATED SCHOOL DISTRICT 181 WALKER ELEMENTARY SCHOOL 120 WALKER AVENUE CLARENDON HILLS, ILLINOIS IES NO. 915-16

1240 IROQUOIS DRIVE SUITE 102 NAPERVILLE, IL 60563



630-718-9133 FAX 630-718-9114

April 28, 2016

C-11807

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 Walker Elementary School 120 Walker 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. Ravanesi President

MJR/ks

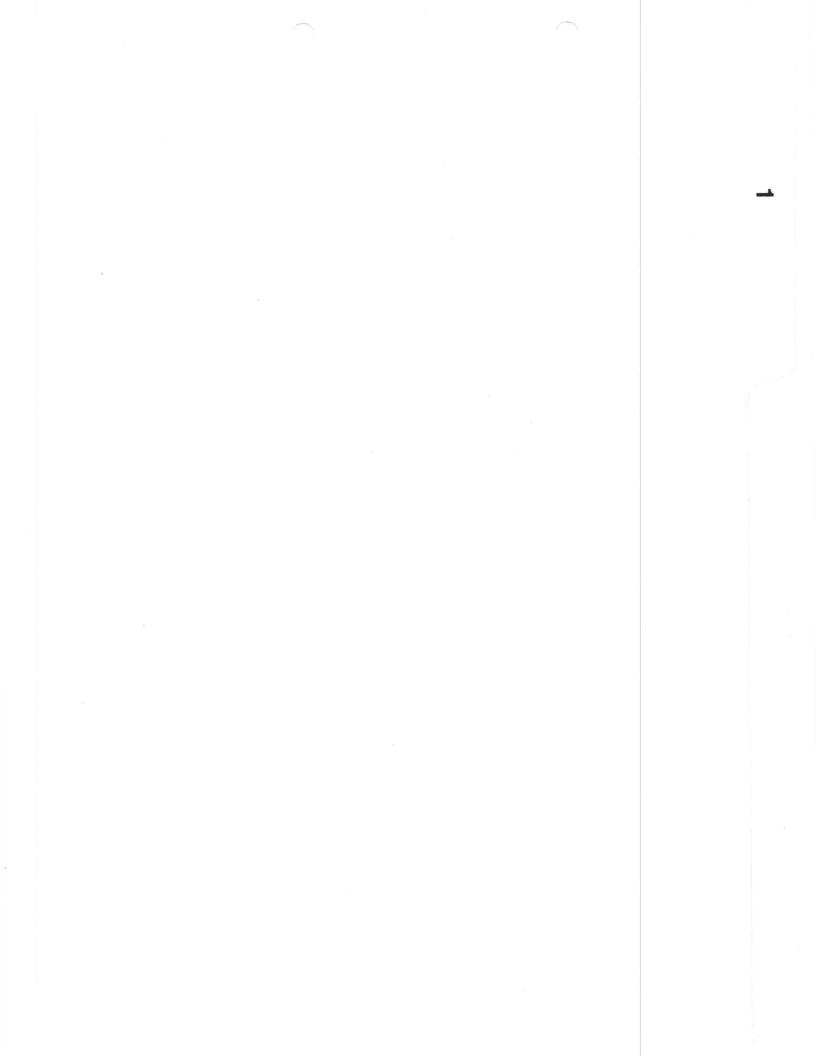
## TABLE OF CONTENTS

## **2016 WATER QUALITY REPORT**

## **COMMUNITY WATER SUPPLY TESTING**

# COMMUNITY CONSOLIDATED SCHOOL DISTRICT 181 WALKER ELEMENTARY SCHOOL 120 WALKER AVENUE CLARENDON HILLS, ILLINOIS IES NO. 915-16

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



#### PROJECT NARRATIVE

#### **2016 WATER QUALITY REPORT**

#### **COMMUNITY WATER SUPPLY TESTING**

## COMMUNITY CONSOLIDATED SCHOOL DISTRICT 181 WALKER ELEMENTARY SCHOOL 120 WALKER 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 Walker 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 Walker 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.

1

#### SAMPLING METHODOLOGY:

Integrity Environmental Services, Inc. (IES) was contracted by the Owner to conduct the potable water sampling at Walker Elementary School. The water sampling was conducted on April 1, 2016. These samples were collected from various sites throughout the school, including a sink located in the boys' restroom adjacent to Classroom 109, a sink located in Room 124, a sink located in the Staff Lounge (Room 124), a drinking fountain located in the hallway outside of Room 206, and a sink located in Classroom 207. 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.

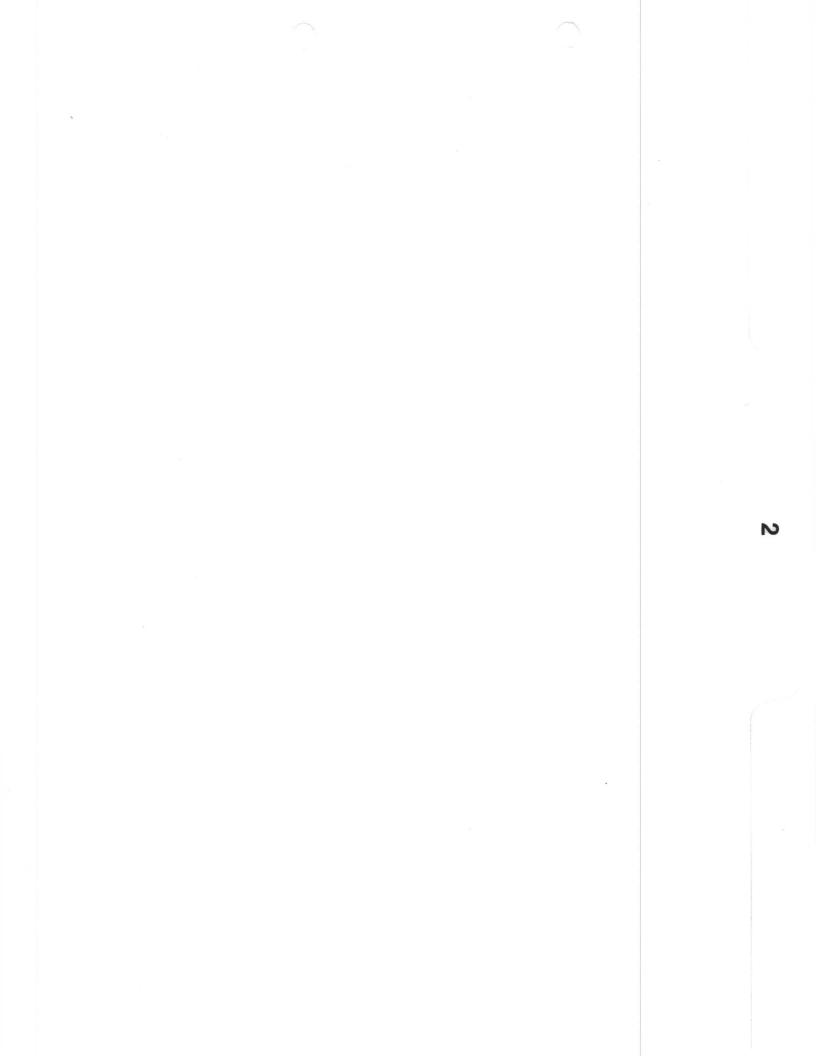
Following the collection of the Lead and Copper samples, the Arsenic sample was (as required) collected by drawing water from the source directly into a pre-labeled/prepreserved sampling container. The sample was collected from the sink located in the boys' restroom adjacent to Classroom 109. After sample 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, Walker 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.



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

# **Analytical Report**

Mark Ravanesi Integrity Env. Services, Inc. 1240 Iroquois Drive Naperville, IL 60563-8538 April 22, 2016

Work Order: 16D0309

RE: **Drinking Water** Walker 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 4:36:43PM

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.





# Table of Contents

Cover Letter	1
Sample Summary	3
Case Narrative	4
Client Sample Results	5
Dates Report	10
Quality Control	11
Certified Analyses	12
List of Certifications	12
Qualifiers and Definitions	13
Chain of Custody	14

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

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WALK-01	16D0309-01	Drinking Water	04/01/16 00:00	04/05/16 13:30
WALK-02	16D0309-02	Drinking Water	04/01/16 00:00	04/05/16 13:30
WALK-03	16D0309-03	Drinking Water	04/01/16 00:00	04/05/16 13:30
WALK-04	16D0309-04	Drinking Water	04/01/16 00:00	04/05/16 13:30
WALK-05	16D0309-05	Drinking Water	04/01/16 00:00	04/05/16 13:30

# Sample Summary

200000 Et 10 10	echnolo	ogies, Inc.				
8100 N. Aust	in Avenue	Morton Grove, IL 60053-3203	P 847.967.6666	800.246.0663	F 847.967.6735	www.emt.com
			Case Narrative			
Client:		. Services, Inc.				Date: 04/22/2016
Project:		er entary School				
Work Order: All reported re	16D0309 sults are within	n defined laboratory quality control obje	ectives unless listed bel	ow or otherwise qua	lified in this report.	

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

Work Order: 16D0309

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  $\frac{\text{Cooler}}{\text{Cooler}} \qquad \frac{\text{Temp } C^{\circ}}{\text{Temp } C^{\circ}}$ 

Default Cooler 4.2

Environmental Monitoring and

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



#### **Client Sample Results**

Batch Anal	alvst D
Botch Appl	
Botch Anal	
Patch Anal	
Patch Anal	whet D
Ratch Analy	whet D
Ratch Anal	durat D
Datch Analy	alyst D
36D0705 AG	AG 2
36D0156 AG	AG 5
	AG 5
	D0156 A

8100 N. Aus	stin Avenue	Morton Gro	ve, IL 600	53-32	203	P 847.967.6666	800.246.066	3 <b>F</b> 847.967.0	6735 W	ww.emt.	com
				С	lient	Sample Resul	ts				
						(Continued)					
Client:	Integrity Env	v. Services, Inc.					Client Sample ID:	WALK-02			
Project:	Drinking Wa	ater					Report Date:	04/22/2016			
	Walker Eler	mentary School					Collection Date:	04/01/2016 00:0	0		
Work Order:	16D0309						Matrix:	Drinking Water			
							Lab ID:	16D0309-02			
			EMT								
			Reporting			Reg		Date/Time			
Analyses		Result	Limit	Qual	Units	Limit	MDL	Analyzed	Batch	Analyst	DF
Metals by ICI	P-MS										
	Method: E2	200.8									
Copper		0.195	0.0312		mg/L	1.3	0.00375	04/06/16 18:45	B6D0156	AG	5
Lead		< 0.0150	0.0150		mg/L	0.015	0.000750	04/06/16 18:45	B6D0156	AG	5

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

				С	lient S	ample Resul	ts				
					(	(Continued)					
Client:	Integrity Env. Ser	vices, Inc.					Client Sample ID:	WALK-03			
Project:	Drinking Water						Report Date:	04/22/2016			
	Walker Elementa	ry School					Collection Date:	04/01/2016 00:00	)		
Work Order:	16D0309						Matrix:	Drinking Water			
							Lab ID:	16D0309-03			
			EMT								
			Reporting			Reg		Date/Time			
Analyses		Result	Limit	Qual	Units	Limit	MDL	Analyzed	Batch	Analyst	DF
Metals by ICI	P-MS										
	Method: E200.8										
Copper		0.313	0.0312		mg/L	1.3	0.00375	04/06/16 18:47	B6D0156	AG	5
Lead		< 0.0150	0.0150		mg/L	0.015	0.000750	04/06/16 18:47	B6D0156	AG	5

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

	Client Sample Results (Continued)										
Client:	Integrity Env. Services	s, Inc.					Client Sample ID:	WALK-04			
Project:	Drinking Water						Report Date:	04/22/2016			
	Walker Elementary So		Collection Date: 04		04/01/2016 0	00:00					
Work Order:	16D0309						Matrix:	Drinking Wate	er		
							Lab ID:	16D0309-04			
			EMT Reporting			Reg		Date/Time	•		
Analyses	R	esult	Limit		Units	Limit	MDL	Analyzed	Batch	Analyst	DF
Metals by ICI	P-MS										
	Method: E200.8										
Copper		0.154	0.0312		mg/L	1.3	0.00375	04/06/16 18:4	49 B6D0156	AG	5
Lead	< 0	.0150	0.0150		mg/L	0.015	0.000750	04/06/16 18:4	49 B6D0156	AG	5

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

			С		ample Resul Continued)	ts				
Client:	Integrity Env. Services, Inc.					Client Sample ID:	WALK-05			
Project:	Drinking Water					Report Date:	04/22/2016			
	Walker Elementary School					Collection Date:	04/01/2016 00:	00		
Work Order:	16D0309					Matrix:	Drinking Water			
						Lab ID:	16D0309-05			
		EMT Reporting			Reg		Date/Time			
Analyses	Result	Limit	Qual	Units	Limit	MDL	Analyzed	Batch	Analyst	DF
Metals by ICI	P-MS									
	Method: E200.8									
Copper	0.247	0.0312		mg/L	1.3	0.00375	04/06/16 18:51	B6D0156	AG	5
Lead	< 0.0150	0.0150		mg/L	0.015	0.000750	04/06/16 18:51	B6D0156	AG	5

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

#### Dates Report

Report Date: 04/22/2016

#### Client: Integrity Env. Services, Inc. Project: Drinking Water Walker Elementary School

Work Order: 16D0309

Sample ID	Client Sample ID	Collection	Matrix	Test Name	Leached Prep Date	Prep Date	Analysis Date	Batch ID	Sequence
16D0309-01	WALK-01	04/01/16	Drinking Water	Lead, Total ICP-MS		04/06/16 12:58	04/06/16 18:43	B6D0156	S6D0075
				Copper, Total ICP-MS		04/06/16 12:58	04/06/16 18:43		
				Arsenic, Total ICP-MS		04/21/16 09:22	04/21/16 11:23	B6D0705	S6D0292
16D0309-02	WALK-02			Lead, Total ICP-MS		04/06/16 12:58	04/06/16 18:45	B6D0156	S6D0075
				Copper, Total ICP-MS		04/06/16 12:58	04/06/16 18:45		
16D0309-03	WALK-03			Lead, Total ICP-MS		04/06/16 12:58	04/06/16 18:47		
				Copper, Total ICP-MS		04/06/16 12:58	04/06/16 18:47		
16D0309-04	WALK-04			Lead, Total ICP-MS		04/06/16 12:58	04/06/16 18:49		
				Copper, Total ICP-MS		04/06/16 12:58	04/06/16 18:49		
16D0309-05	WALK-05			Lead, Total ICP-MS		04/06/16 12:58	04/06/16 18:51		
				Copper, Total ICP-MS		04/06/16 12:58	04/06/16 18:51		

# 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
---	----------------	--------------	----------------	-------------

# **Quality Control**

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

Client:	Integrity Env. Services, Inc.
Project:	Drinking Water
	Walker Elementary School
Work Order:	16D0309

Metals by ICP-MS	

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual	DF
Batch: B6D0156											
					04/05/201-	10.50	Andrea 1.011	000000	17.50		
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: 16	00308-01	Prepared	1: 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: 16	D <b>0309-</b> 05	Prepared	1: 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: 16	D0308-01	Prepared	1: 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: 16	D0309-05	Prepared	d: 04/06/2016	6 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	d: 04/21/2016	6 09:22	Analyzed: 04	/21/2016	5 11:06		
Arsenic	< 0.0100	0.0100	mg/L								2
LCS (B6D0705-BS1)				Prepared	d: 04/21/2016	5 <b>09:22</b>	Analyzed: 04	/21/2016	5 11:08		
Arsenic	0.101	0.0100	mg/L	0.1000		101	85-115				1
Post Spike (B6D0705-PS1)	30	ource: 16D03	04-01RE1	Prepared	d: 04/21/2016	5 <b>09:2</b> 2	Analyzed: 04	/21/2010	6 11:12		
Arsenic	0.109	0.0100	mg/L	0.1000	0.000720	109	80-120				1
			2								

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

#### 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.

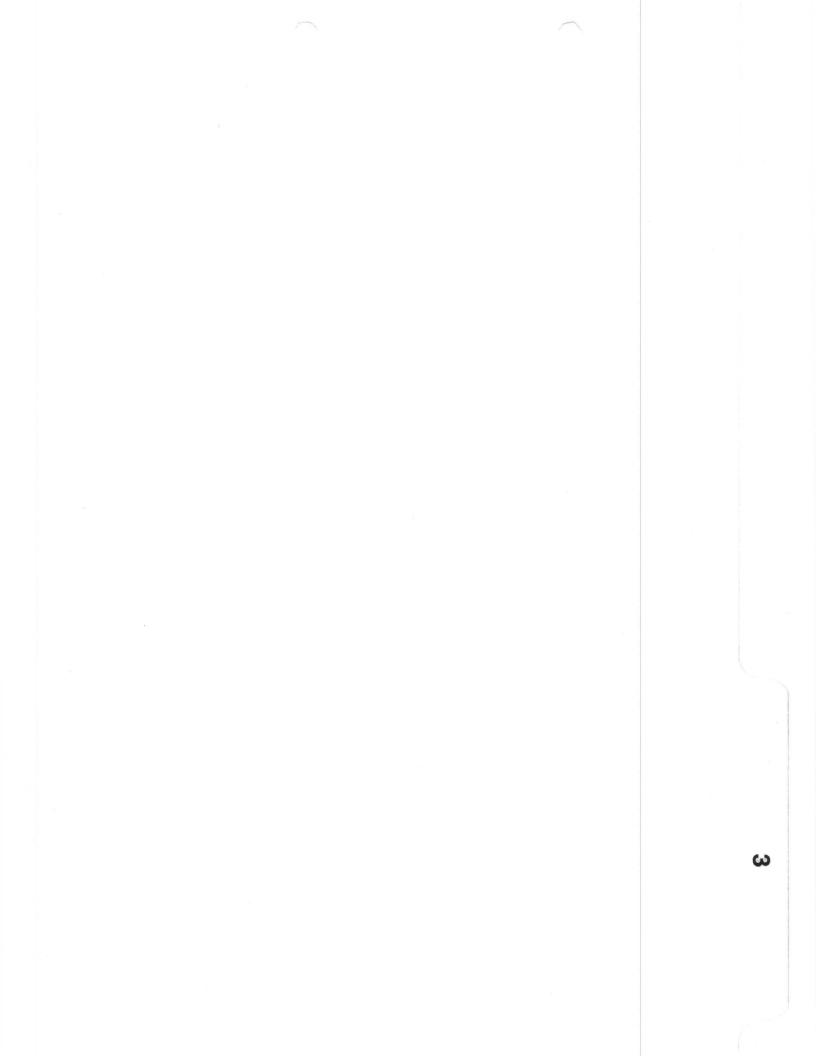
8100 N. Austin Avenue Morton Grove, IL 60053-3203 P 847.967.6666 800.246.0663 F 847.967.6735 www.emt.com

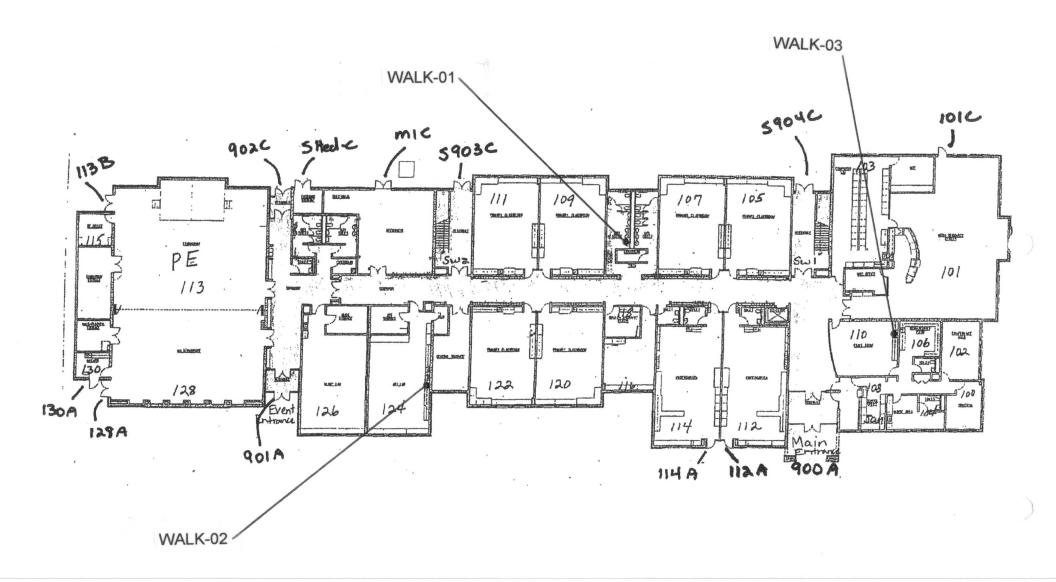
## Qualifiers and Definitions

Item Description

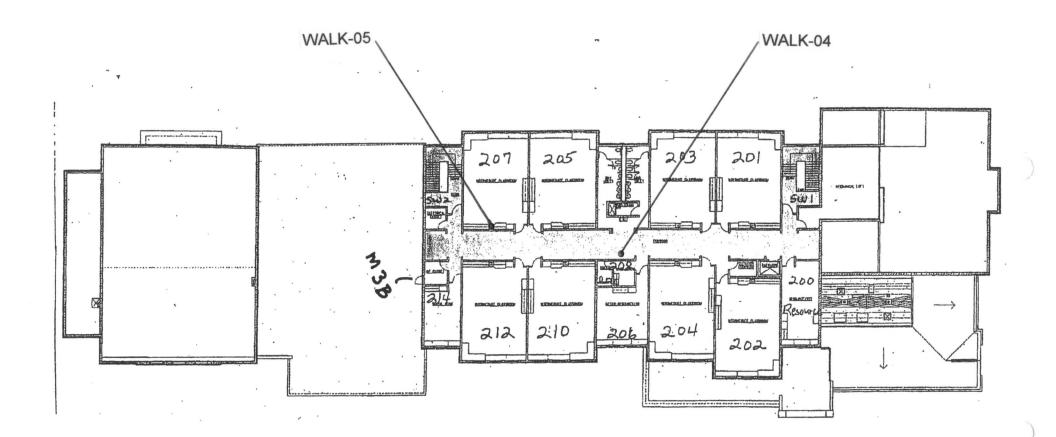
%Rec Percent Recovery

e A.	8100 N	ONI	TO IOL stin Ave		EN' G A ES, -3203	ND		Integri	FA	istino Aces, Inc.	666 967-673	Jstody Recor	TURNARAOUND TIME: RUSH Aday turnaround ROUTINE - COC #:
Company: JNTELN Address: 1240 NAPG Phone #: (630) 18 P.O. #: 915-1 Client Contact: M Project ID / Location: L	-913 6 1 nuc	VO(5 12,11 3 F PAV	DA	8017 0563 915 915	78 - 5 - 10	114	1 Was 2 brin 3. Soll Conta Pla G - Gla <b>Preser</b> 1. Non	ting Wat tiner Typ stic V- cass B- vative: e 4, 04 5,	<b>De:</b> - VOC Vial Tedlar Bag NaOH 7,	ndwater O - Oth	8. Other	dwater (filtered)	Analyses EMT USE ONLY EMT
Sample I.D.	Sample Type	Size	Contair Type	Report of the second	Ву	Date	Sampling Time	g Hq	Temp.	Prese Field	Lab	7337 ///	# (50) 030
WILK-01 1 02 03 04 1 04 1 05	2	25000	P		Mrc	4-1-16	A.M.	MA	72.3 66.9 71.8 53.9 78.2		3		01A 02A 03A 04A 05A
Relinquished By: Relinquished By:	T C T	Date: 1 Time: Date: Time: Date:		-16 0p-	Receiv Receiv	OPEN-11 (The Miles days Lawrence Process	ob By:		Date Time: Date: Time: Date:	- - -	- 16	EMT USE ONLY Client Code: EMT Project I.D. Jar Lot No	CONTRACT PARTICIPATION CONTRACT CON





ENVIRONMENTAL SERVICES, INC. 1240 IROQUOIS DRIVE, SUITE 102 NAPERVILLE, ILLINOIS 60563 (630) 71891139 (630) 7189114 (FAX)	WALKER ELEMENTARY SCHOOL 120 WALKER AVENUE CLARENDON HILLS, ILLINOIS COMMUNITY CONSOLIDATED SCHOOL DIST. 181 115 W. 55TH STREET	DRAWN BY: GT DATE: 4/11/16	IES NO.: 915-16		WATER SAMPLE LOCATION DIAGRAM
(630) 718-9114 (FAX)	115 W. 55TH STREET CLARENDON HILLS, ILLINOIS			NORTH	FIRST FLOOR



ENVIRONMENTAL SERVICES, INC. 1240 IROQUOIS DRIVE, SUITE 102 NAPERVILLE, ILLINOIS 60563 (630) 718-9133 (630) 718-9114 (FAX)	120 WALKER AVENUE CLARENDON HILLS, ILLINOIS COMMUNITY CONSOLIDATED SCHOOL DIST. 181 115 W. 55TH STREET	DRAWN BY: GT DATE: 4/11/16	IES NO.: 915-16		WATER SAMPLE LOCATION DIAGRAM
(630) 718-9114 (FAX)	115 W. 55TH STREET CLARENDON HILLS, ILLINOIS			NORTH	SECOND FLOOR