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LEAD IN DRINKING WATER REPORT

Performed At:

South Brunswick School District
14 Schools

Performed For:

South Brunswick Board of Education
Brian Redfield
231 Black Horse Lane
North Brunswick, NJ 08902

Prepared By:

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Inspection Date: 08/6 –08/12/21,
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Project Number: 220341 & 220618

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Contact Information


Agency

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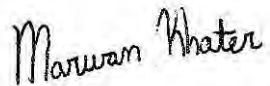
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Date:	August 30, 2021
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Risk Assessor(s)

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Risk Assessor(s)

Site Assessor(s):	Marwan Khater
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Date:	April 14, 2022
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Firm

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Introduction

LEW Corporation was contracted by South Brunswick School District to test for the presence of lead in drinking water in Fourteen schools in the district. Lew Corporation returned back to perform a clearance test in three of the schools.

Sampling Methodology

LEW Environmental Services, LLC. followed NJAC 6A:26. Full details on sampling practices can be found in Districts Sampling Plan.

All samples were collected in 250mL wide mouth plastic containers that was prepackaged by the analytical laboratory. The sample containers may contain nitric acid, if expedited analysis is required. If not, nitric acid will be added to each sample upon arrival at the laboratory. At each sample location, the first draw sample was taken after it was determined that the water had been standing in the plumbing system for greater than eight hours but less than forty-eight hours. If second draw samples were collected, they were collecting following a flushing protocol outlined in **the District's Sampling Plan.**

Drinking Water Results

On August 8th to 12th 2021, LEW Corporation collected the following number of water samples:

Monmouth Junction

- 27 first draw samples collected + 1 QAQC
- 1 sample above the 15ppb action level

Administration Building

- 7 first draw samples + 1 QAQC
- 0 samples above the 15ppb action level

Building Ground & Transportation

- 3 first draw samples + 1 QAQC
- 0 samples above the 15ppb action level

Brooks Crossing

- 43 first draw samples + 1 QAQC
- 1 sample above the 15ppb action level

Cambridge Elementary

- 42 first draw samples + 1 QAQC
- 1 sample above the 15ppb action level

Constable

- 44 first draw samples + 1 QAQC
- 4 sample above the 15ppb action level

Greenbrook Elementary

- 46 first draw samples + 1 QAQC
- 6 sample above the 15ppb action level

Indian Fields

- 43 first draw samples + 1 QAQC
- 4 sample above the 15ppb action level

Indian Fields @ Dayton

- 6 first draw samples + 1 QAQC
- 3 sample above the 15ppb action level

Crosswords North Middle

- 40 first draw samples + 1 QAQC
- 7 sample above the 15ppb action level

Brooks Crossing @ Deans

- 13 first draw samples + 1 QAQC
- 2 sample above the 15ppb action level

South Crosswords Middle

- 38 first draw samples + 1 QAQC
- 2 sample above the 15ppb action level

Brunswick Acres

- 40 first draw samples + 1 QAQC
- 2 sample above the 15ppb action level

South Brunswick High School

- 99 first draw samples + 1 QAQC
- 1 sample above the 15ppb action level

On November 1, 2021, LEW Corporation collected the following number of water samples:

Monmouth Junction

- 1 2nd draw sample collected
- 0 sample above the 15ppb action level

Brooks Crossing

- 1 1st draw samples collected
- 1 2nd draw sample collected
- 0 samples above the 15ppb action level

Cambridge Elementary

- 4 2nd draw samples collected
- 0 samples above the 15ppb action level

Constable

- 4 2nd draw samples collected
- 0 samples above the 15ppb action level

Greenbrook Elementary

- 3 1st draw samples collected
- 3 2nd draw samples collected
- 0 sample above the 15ppb action level

Indian Fields

- 2 1st draw samples collected
- 2 2nd draw samples collected
- 0 sample above the 15ppb action level

Indian Fields @ Dayton

- 1 1st draw sample collected
- 2 2nd draw samples collected
- 0 sample above the 15ppb action level

Crosswords North Middle

- 1 1st draw sample collected
- 5 2nd draw samples collected
- 1 sample above the 15ppb action level

Brooks Crossing @ Deans

- 2 2nd draw samples collected
- 0 sample above the 15ppb action level

South Crosswords Middle

- 1 1st draw sample collected
- 1 2nd draw sample collected
- 0 sample above the 15ppb action level

Brunswick Acres

- 2 2nd draw samples collected
- 0 sample above the 15ppb action level

South Brunswick High School

- 1 1st draw sample collected
- 0 sample above the 15ppb action level

On April 14, 2022, Marwan Khater of LEW Corporation returned to collect the following number of samples:

Cambridge Elementary

- 4 first draw samples + 1 QAQC
- 1 sample above the 15ppb action level

Constable

- 4 first draw samples + 1 QAQC
- 0 sample above the 15ppb action level

Greenbrook Elementary

- 3 first draw samples + 1 QAQC
- 0 sample above the 15ppb action level

Indian Fields

- 2 first draw samples + 1 QAQC
- 0 sample above the 15ppb action level

Indian Fields @ Dayton

- 3 first draw samples + 1 QAQC
- 1 sample above the 15ppb action level

Crosswords North Middle

- 4 first draw samples + 1 QAQC
- 1 sample above the 15ppb action level

Brooks Crossing @ Deans

- 2 first draw samples + 1 QAQC
- 1 sample above the 15ppb action level

South Crosswords Middle

- 1 first draw samples + 1 QAQC
- 0 sample above the 15ppb action level

Brunswick Acres

- 2 first draw samples + 1 QAQC
- 0 sample above the 15ppb action level

On September 22, 2022, Krishi Tanna of LEW Corporation returned to collect the following number of samples:

Cambridge Elementary

- 1 first draw samples + 1 QAQC
- 0 sample above the 15ppb action level

Brooks Crossing @ Deans

- 1 first draw samples + 1 QAQC
- 0 sample above the 15ppb action level

Indian Fields @ Dayton

- 1 first draw samples + 1 QAQC
- 0 sample above the 15ppb action level

The complete list of samples that exceeded the 15ppb limit can be found in Appendix A. The complete list of all sample results can be found in Appendix C. The laboratory results can be found in Appendix E.

Certain outlets could not or were not tested due to various reasons. The following table lists those locations and the reason why samples were not collected.

School	Sample Location	Reason for not testing.
Brooks Crossing	Room E501 – bubbler	Not working

	Room D409 – bubbler	Not Working
	Room D410 – Bubbler	Not working
Indian Fields at Dayton	Hall Across from Gym – Left	Not working
	Art Room	Not Present
Constable	Kitchen – Pot Filler - Left	Not in Use
	Kitchen – Pot Filler – Right	Not in Use
	Room A107 – Bubbler	Not Present
	Hall by E501 – Right – Bubbler	Not Present
Cambridge Elementary	Hall by Main Office – left – Bubbler	Not Working
	D402 – Right – Bubbler	Not Working
	D409 – Bubbler	Not Working
Brunswick Acres	Room E501 – Bubbler	Not Present
	Room B207 – Bubbler	Not Present
	Room C307 – Bubbler	Not Working
	Room C303 – Bubbler	Not Present
Indian Fields	Kitchen Next to Dishwasher – Pot Filler	Not Present
	Media Center – Bubbler	Not Present
	Next to Custodial Storage – Right – Water Cooler	Not Working
	Room 302 – Bubbler	Not Working
	Main Office – Work Room – Bubbler	Removed Permanently
Crossroads North Middle School	Small Hall by gym by entrance B6 – Right – Bubbler	Plugged Permanently
	Hall Across Room E505 – Bubbler	Not Working
	Hall Next to Room D408 Left - Bubbler	Not Present
	Kitchen – Sink next to outtakes sign	Not Operational
	Boys Locker Room – Back – Bubbler	Not Working
Crossroads South Middle School	Snack Shack Hall – Bubbler	Not Working
	Inside Snack Shack – Sink	Not operational
	F100 – Sink	Disabled
	F102 – Bubbler	Not Present
	Next to A124 – Bubbler	Not Working
	Nurses attached to S-11 – bubbler	Not Present
	Trailer Next to Fridge – Sink	Not In Use
South Brunswick High School	Café – Junior Café – Coffee Maker	Water Line Not Connected
	9 th Grade Café – Next to Ice machine – Sink	Not Working
	Athletic Office in Annex – Sink	Locked
	Outside Room C201&204 – Water Cooler	Not Working
	Snack Shack – Ice Maker	Not Working
	9 th Grad Café Sink- Next to hand sink	Not Working

November 1, 2021

School	Sample Location	Reason for not testing.
Crossroads North Middle	NC-B-45 Girls Locker Room Bathroom	Outlet not working

April 14, 2022

School	Sample Location	Reason for not testing.
Brooks Crossing	Hall next to RM D415, right	Removed
Crosswords North Middle	By entrance B6, right	Removed

Recommendations

Those outlets where the first draw sample tested below 15ppb are not considered to be elevated and no mitigation is necessary.

For those outlets where the first draw sample exceeds 15ppb the following steps are recommended:

- 1) Immediately discontinue use of the outlets.
- 2) Conduct second draw (flush) samples on these outlets to further delineate source of contamination.

A complete list of recommendations per outlet can be found in Appendix B.

Additional Recommendations

- 1) Follow-up samples should be collected after any remediation efforts in order to determine the efficacy of the work.
- 2) Any of the inoperable/non-functioning outlets listed above that are brought back into service should be sample.
- 3) Comply with all requirements set forth in NJAC 6A:26.

Appendix A Exceedances

Date Collected	Analysis Date	Sample ID	Sample Description	Concentration (ppb)
Monmouth Junction				
08/10/2021	08/23/2021	MJ-S-18	KIT FRONT OF STOVE	102
Brooks Crossing				
8/6/2021	8/27/2021	BC-WC-41	HALL NEXT TO RM D415 - RIGHT	200
08/06/2021	08/27/2021	BC-PF-03	KITCHEN	1490
Cambridge Elementary				
08/11/2021	08/24/2021	CAM-B-18	RM B212	21.2
08/11/2021	08/24/2021	CAM-B-20	RM A112	23.9
08/11/2021	08/24/2021	CAM-B-29	HALL BY MAIN OFFICE RIGHT	20.6
08/11/2021	08/27/2021	CAM-B-44	PRE-K BLD	200
Constable				
08/11/2021	08/25/2021	CON-B-19	RM B206	55.0
08/11/2021	08/25/2021	CON-B-21	RM B204	99.7
08/11/2021	08/25/2021	CON-B-23	RM B202	27.8
08/11/2021	08/25/2021	CON-B-35	RM F607	43.6
Greenbrook Elementary				
08/10/2021	08/27/2021	GB-S-02	KIT LEFT COMP SINK LEFT	19.6
08/10/2021	08/28/2021	GB-S-04	KIT FRONT OF STOVE TOP	72.4
08/10/2021	08/27/2021	GB-S-05	KIT AWAY FROM WALK IN CLOSET	30.7
08/10/2021	08/27/2021	GB-B-06	E502	27.3
08/10/2021	08/28/2021	GB-B-20	HALL NEAR A103 LEFT	30.2
08/10/2021	08/28/2021	GB-S-36	RM B204	43.3
Indian Fields				
08/06/2021	08/25/2021	IF-S-07	KIT NXT TO DISWASHER - LEFT	19.1
08/06/2021	08/25/2021	IF-S-08	KIT NXT TO DISHWASHER - RIGHT	93.9
08/06/2021	08/25/2021	IF-S-43	NURSES	120
08/06/2021	08/25/2021	IF-S-45	MAIN OFFICE	17.8
Indian Fields @ Dayton				
08/06/2021	08/25/2021	IFD-B-01	HALL ACROSS FROM GYM R	354
08/06/2021	08/25/2021	IFD-B-04	HALL LEFT	59.3
08/06/2021	08/27/2021	IFD-B-05	HALL RIGHT	76.3
Crosswords North Middle				
08/12/2021	08/27/2021	NC-B-01	BY ENTRANCE B6 RIGHT	27900
08/12/2021	08/28/2021	NC-S-04	RM D408 1ST	74.6
08/12/2021	08/26/2021	NC-PF-17	KITCHEN	19.6
08/12/2021	08/28/2021	NC-B-29	HALL FRNT OF KIT	68.2
08/12/2021	08/30/2021	NC-B-31	HALL BY A111	147

08/12/2021	08/27/2021	NC-B-44	GIRLS LOCKER RM BY ENTR	77.0
08/12/2021	08/28/2021	NC-B-45	GIRLS LOCKER RM BATHRM	50.6
Brooks Crossing @ Deans				
08/06/2021	08/30/2021	BCD-B-07	HALL BY A3 L	16.6
08/06/2021	08/30/2021	BCD-B-11	HALL NEXT TO NURSE	46.9
Crosswords South Middle				
08/12/2021	08/30/2021	SC-WC-03	CAFE RED	26.8
08/12/2021	08/30/2021	SC-B-34	BOYS LOCKER RM	18.3
Brunswick Acres				
08/10/2021	08/31/2021	BA-B-11	RM B 200	37.6
08/10/2021	08/31/2021	BA-B-31	EM C 301	21.2
South Brunswick High School				
08/07/2021	09/17/2021	HS-S-37	FOOD LAB KIT 5	23.8

Exceedances 11/01/2021

Date Collected	Analysis Date	Sample ID	Sample Description	Concentration (ppb)
Crosswords North Middle				
11/01/2021	11/03/2021	NC-B-31	Hall By A111 (2 nd Draw)	15.7

Exceedances 04/14/2022

Date Collected	Analysis Date	Sample ID	Sample Description	Concentration (ppb)
Cambridge Elementary				
04/14/2022	04/20/2022	CAM-B-44	Pre-K BLD	25.6
Indian Fields @ Dayton				
04/14/2022	04/20/2022	IFD-B-05	Hall Right	15.6
Crosswords North Middle				
04/14/2022	04/20/2022	NC-B-45	Girls Locker Room Bath	36.7
Brooks Crossing @ Deans				
04/14/2022	04/21/2022	BCD-B-07	Bubbler by hall A3 L	17.0

Exceedances 09/22/2022

No recorded during this visit

Appendix B Recommendations

Building	Location	Remediation Recommendation
Monmouth Junction	KIT FRONT OF STOVE	<ol style="list-style-type: none"> 1) Immediately discontinue use of the outlets. 2) Conduct second draw (flush) samples on these outlets to further delineate source of contamination.
Brooks Crossing	HALL NEXT TO RM D415 - RIGHT	
Cambridge Elementary	RM B212	
Cambridge Elementary	RM A112	
Cambridge Elementary	HALL BY MAIN OFFICE RIGHT	
Cambridge Elementary	PRE-K BLD	
Constable	RM B206	
Constable	RM B204	
Constable	RM B202	
Constable	RM F607	
Greenbrook Elementary	KIT LEFT COMP SINK LEFT	
Greenbrook Elementary	KIT FRONT OF STOVE TOP	
Greenbrook Elementary	KIT AWAY FROM WALK IN CLOSET	
Greenbrook Elementary	E502	
Greenbrook Elementary	HALL NEAR A103 LEFT	
Greenbrook Elementary	RM B204	
Indian Fields	KIT NXT TO DISWASHER - LEFT	
Indian Fields	KIT NXT TO DISHWASHER – RIGHT	
Indian Fields	NURSES	
Indian Fields	MAIN OFFICE	
Indian Fields @ Dayton	HALL ACROSS FROM GYM R	
Indian Fields @ Dayton	HALL LEFT	
Indian Fields @ Dayton	HALL RIGHT	
Crosswords North Middle	BY ENTRANCE B6 RIGHT	
Crosswords North Middle	RM D408 1ST	
Crosswords North Middle	KITCHEN	
Crosswords North Middle	HALL FRNT OF KIT	
Crosswords North Middle	HALL BY A111	
Crosswords North Middle	GIRLS LOCKER RM BY ENTR	
Crosswords North Middle	GIRLS LOCKER RM BY ENTR	
Brooks Crossing @ Deans	HALL BY A3 L	
Brooks Crossing @ Deans	HALL NEXT TO NURSE	
South Crosswords Middle	CAFE RED	
South Crosswords Middle	BOYS LOCKER RM	
Brunswick Acres	RM B 200	
Brunswick Acres	EM C 301	
South Brunswick High School	FOOD LAB KIT 5	

Recommendations 11/01/2021

Building	Sample Description	Concentration (ppb)	Remediation Recommendation
Crosswords North Middle	Hall By A111 (2 nd Draw)	15.7	For those outlets where the first draw sample exceeds 15ppb and the second draw sample does not exceed 15ppb. LEW Corporation recommends immediately stopping use of these outlets. LEW Corporation then recommends replacing the outlet and associated plumbing up to the wall connection.

Recommendations 04/14/2022

Date Collected	Analysis Date	Sample ID	Sample Description	Remediation Recommendation
Cambridge Elementary				
04/14/2022	04/20/2022	CAM-B-44	Pre-K BLD	1) Immediately discontinue use of the outlets.
Indian Fields @ Dayton				
04/14/2022	04/20/2022	IFD-B-05	Hall Right	1) Immediately discontinue use of the outlets.
Crosswords North Middle				
04/14/2022	04/20/2022	NC-B-45	Girls Locker Room Bath	1) Immediately discontinue use of the outlets.
Brooks Crossing @ Deans				
04/14/2022	04/21/2022	BCD-B-07	Bubbler by hall A3 L	1) Immediately discontinue use of the outlets.

Recommendations 09/22/2022

No recommendations required

Appendix C All Results 09/22/2022

School	Client Sample	Sample Description	Date Sampled	Concentration (ug/L)
Indian Fields @ Dayton	IFD – S - 00	Next to exit	09/28/2022	<1.00
	IFD – B – 05	Upper Hall Right	09/28/2022	2.64
Brooks Crossing @ Dayton	BCD – S – 00	Next to exit	09/28/2022	<1.00
	BCD – B – 07	Bubbler by Hall A3L	09/28/2022	<1.00
Cambridge Elementary	CAM – S – 00	Next to exit	09/28/2022	<1.00
	CAM – B – 44	Pre-K Bld	09/28/2022	<1.00

Appendix D Floor Plan(s)

Appendix E Laboratory Data