### Sampling Report - Lead in Drinking Water White Township School District

<u>1.</u>	Sampling Results Summary and Statistics Sample Collection Date Number of Buildings Sampled	Jun 10, 2022 1
	Total Number of Samples Collected Number of Samples with No Detectible Lead	13 6
	Number of Samples Exceeding 15 ppb (0.015 mg/L Standard) Number of Samples Exceeding 5 ppb (0.005 mg/L EPA threshold)	0 1
	Highest Measured Lead Content (ppb)	15.0

# 2. Water Sampling Procedures

Sampling protocols and procedures follow the EPA "3-T's Program" that was developed for schools and Child Care centers. They recognize that the typical school building is actually a conglomeration of an original building with one or more additions, each of which typically having different plumbing system materials.

In addition, building sections constructed before 1986 likely have plumbing systems that used leaded solders on Copper water lines. Very old buildings and public water supply systems may also still have lead piping. Other potential sources of Lead in drinking water systems include brass faucets, fittings, along with valve seats and stems that are used in the municipal and building piping distribution systems. It is important to note that "Lead-Free" plumbing components used since 1986 may actually contain up to 8% Lead by weight. In January 2014, this limit was lowered from 8% to 0.2% Lead.

The sampling protocol requires that water be collected as a "First-Draw" to ensure that the water sample has been standing for at least 8 hours. This is intended to replicate a "worst-case" situation since both the Lead levels are usually lowered significantly after running the water even for a few moments.

Drinking water samples were collected early on a weekday (not Monday) or Saturday morning before staff and students arrived for classes to represent water that has sat idle in the building piping system overnight.

All samples were collected in 250 ml contaminant-free containers. Laboratory analysis of the water samples was performed by the International Asbestos Testing Laboratory, Inc of Mt. Laurel, NJ (NJ DEP Certification Nos. 03863). The analytical method is per EPA Method 200.98 via atomic absorption, graphite furnace technique.

## 3. Sample Results and Discussion

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Sampling results are discussed below and the sampling log is appended to this report. It is important to note that the laboratory results are reported in terms of micrograms per liter ( $\mu$ g/L). This is essentially equivalent to parts of Lead per billion (ppb) parts of water. The Action level also translates to 15 ppb.

A total of 13 water samples were collected on June 10, 2022. None of the samples exceeded the 15 µg//L Action Level and 6 of the 13 water samples had detectible levels of Lead present just below the standard.

There was one sample where the results are exactly equal to the 15  $\mu$ g/L standard. As such, the sample result did not exceed the standard.

**<u>4. Recommendations and Future Work</u>** All water sample results showed acceptable results for Lead content. The following responses include those required by N.J.A.C. 6A:26-12.4 and our recommendations to maintain the drinking water quality as it relates to Lead contamination.

The NJDOE regulations requires that:

- These sampling results be made publically available at the school building and on the School District's website.
- The School District shall collect drinking water samples and analyze for Lead at any drinking water outlet that has been <u>replaced or after any alterations</u> to the plumbing or • service lines to the outlet. Do not consume or cook with water from the affected outlet until acceptable Lead results are obtained.
- Repeat water sampling within 3 years of the date of this sampling or before May 2025. •

In addition, we suggest that the following responses to minimize the potential for Lead contamination of drinking water:

Administrative Responses:

- There are several factors that influence the potential for Lead corrosion in drinking water piping systems. These include the chemistry of the water supplied being supplied to the building, water temperature and velocity through the piping, the age and condition of the plumbing, and the amount of time the water sits "stagnant" in contact with piping and drinking water fixtures. This last factor is the only one that a building owner has any control of.
- School building codes require a minimum of one (1) drinking water tap for every 100 students of <u>building capacity</u>. Wherever a larger number of water taps exists, the usage factor for each tap decreases. This, in turn, increases the "stagnation time" along with the increased potential for Lead corrosion. It is recommended that the need for all •

current water taps be investigated and reduced where appropriate while maintaining the minimum of 1 tap per 100 students.

• Consider implementing a program to shut-off and replace (if needed) any drinking water fixture of appliance that is more than 35 years old (was installed before the 1986 Lead Ban took effect).

**Operational and Maintenance Responses:** 

- EPA recommends that any water tap where the measured Lead content exceeds 5 parts per billion (PPB) or 5  $\mu$ g/L be inspected and cleaned of line sediment to eliminate potential sources of Lead contamination. There were 1 water samples above this level.
- Use cold water only for drinking or cooking. Higher water temperatures will increase the water's corrosion potential.
- The accumulation of line sediment on aerators and screens at the water taps is frequently the source of high levels of Lead. It is recommended that a program be established to regularly inspect for the presence of line sediment at all drinking water taps. Initially, an annual inspection is suggested. The inspection frequency should then be adjusted depending upon the amounts of sediment that is found and where it is found. Higher usage taps may accumulate sediment more quickly and need to be cleaned more often.
- It is known that flushing water through drinking water taps will reduce the levels of both Lead and Copper present in the drinking water. It is also recommended that a program be established to run water at all drinking or cooking taps for at least one minute before students and staff return to school after long breaks, especially after the Summer recess.

Report prepared by: 1 BARRA

Patrick D. McGuinness, MS, P.E. Vice President

Water Sampling Log

White Township School White Township Bd of Educ Name of Building **Building Owner** 

Date Collected 10-Jun-22 Sample Collected by PD McGuinness

No.         Type           1         1st           1         1st           2         1st           3         1st           4         1st           5         1st           -01         6         1st           -03         7         1st           -03         7         1st           -03         7         1st           -13         9         1st           10         1st         1st           11         1st         1st           12         1st         1st           13         1st         1st           14         1st         1st           15         1st         1st           205         17         1st           206         18         1st           205         17         1st           206         18         1st           208         20         1st	Sample	Tap	Sample	Tvpe of				Results	(Hg/l_)
1111 $1$ <	No.	° Z	Type	Outlet	Manufacturer	Sample Location	Time	Cu	ЧЧ
21stChillerDottleCateteria 11B acteria 11B acteria 11B acteria 11B 	1	-	1st	Sink			1	xx	1
31stBubblerCafeteria 11B <b>* Removed **</b> $-$ XX41stSinkMtchen 12B - Hand Sink <b>* Used for Washup Only**</b> $-$ XX51stSinkXtchen 12B - Hand Sink <b>* Used for Washup Only**</b> $-$ XX61stPot FillerKtchen 12B - Pot Filler $0.7$ :8XX11stPot FillerBottle FillerHalway - by closet 151 $0.7$ :8XX11stChillerBottle FillerHalway - by closet 151 $0.7$ :8XX11stChillerBottle FillerHalway - by closet 151 $0.7$ :3XX11stBubblerRoom 190 $0.7$ :31XXX11stBubblerRoom 200 <b>* Removed**</b> $0.7$ :37XXX11stBubblerRoom 200 <b>* Removed**</b> $0.7$ :31XXX11stBubblerRoom 200 <b>* Removed**</b> $-$ XXX11stBubblerRoom 200 <b>* Removed**</b> $-$ XXX11stBubblerRoom 200 <b>* Removed**</b> $-$ XXX11stBubblerBubblerHalway - by Room 300 $ -$ XX11stChillerBubblerHalway - by Room 300 $ -$ XX11stChillerBubblerHalway - by Room 300 $ -$ XX11stSinkSinkBubblerHalway - by Room 300 $-$ <td>RK-061022-02</td> <td>2</td> <td>1st</td> <td>Chiller</td> <td></td> <td>Cafeteria 11B</td> <td>07:22</td> <td>ХХ</td> <td>QN</td>	RK-061022-02	2	1st	Chiller		Cafeteria 11B	07:22	ХХ	QN
41stSink $\ldots$ Kitchen 12B - Hand Sink <b>* Used for Washup Only</b> $-$ XX51stSink $\ldots$ Kitchen 12B - Main Sink <b>* Used for Washup Only</b> $-$ XX61stPotFiller $\ldots$ Ntchen 12B - Pot Filler $0.7:18$ $XX$ 771stPotFillerBottle FillerHallway - by closet 111 $0.7:26$ $XX$ 81stChillerBottle FillerHallway - by closet 151 $0.7:27$ $XX$ 91stChillerBottle FillerHallway - by closet 151 $0.7:26$ $XX$ 101stChillerBottle FillerHallway - by closet 151 $0.7:27$ $XX$ 111stBubblerRoom 190 $0.7:41$ $XX$ $XX$ 121stBubblerRoom 200 * Removed ** $ XX$ 131stBubblerRoom 200 * Removed ** $ XX$ 141stBubblerBubbler $0.7:28$ $XX$ 151stBubblerBubbler $1.8  Rubved ** -141stBubblerBubblerHalway - by Room 3000.7:38 XX151stChilerBubblerHalway - by Room 3000.7:38  XX141stSinkHalway - by Room 3000.7:38  XX151stSinkHalway - by Room 3000.7:38  XX161stSinkNo$	1	3	1st	Bubbler			1	xx	1
51stSinkMitchen 12B- Main Sink * Used for Washup Only**XX61stPot FillerKitchen 12B - Pot FillerMitchen 12B - Pot Filler07:18XX71stChillerBottle FillerHallway-by closet 15107:25XXXX81stChillerBottle FillerHallway-by closet 15107:27XXXX101stBubblerBottle FillerHallway-by closet 15107:27XXXX111stBubblerRoom 190Room 200 * Removed **07:37XXXX121stBubblerRoom 200 * Removed **07:37XXXX131stBubblerRoom 200 * Removed **XX1141stBubblerBubblerBottlerHallway-by Room 30007:38XX1151stBubblerBottlerHallway-by Room 30007:307:32XX1151stSinkHallway-by Room 300* Removed **XX1161stSinkHallway-by Room 300* Removed **XX1161stSinkHallway-by Room 300* Removed **XX1171stSinkHallway-by Room 300* Removed **XX1181stSinkHallway-by Room 300* Removed **XX1191stSink	1	4	1st	Sink			1	xx	1
61stPot FillerKitchen 12B - Pot Filler07:18XX71stChillerBottle FillerHalway - by closet 11107:25XX81stChillerBottle FillerHalway - by closet 15107:25XX91stChillerBottle FillerHalway - by closet 15107:25XX101stSinkPoutRoom 19007:31XXXX111stBubblerRoom 200Removed **XXXX121stBubblerRoom 200Removed **XXXX131stBubblerRoom 200Removed **XXXX141stBubblerRoom 250 * Removed **XXXX151stBubblerBubblerHalway - by Room 30007:38XXXX161stChillerBubblerHalway - by Room 30007:38XXXX161stChillerBubblerHalway - by Room 30007:38XXXX161stSinkNuse's Office - Front Room07:38XXXX181stSinkNuse's Office - Front Room07:39XXXX191stSinkHalway - by Gworn 30007:39XXXX191stSinkHalway - by Room 30007:39XXXX191stSinkMase's Office - Front Room07:30XXXX191s		S	1st	Sink			1	XX	1
71stChillerBottle FillerHaltway-by closet 11107:25 $XX$ S81stChillerBottle FillerHaltway-by closet 151 $07:27$ $XX$ S91stChillerBottle FillerHaltway-by closet 151 $07:27$ $XX$ S101stBubblerRoom 190 $07:41$ $XX$ $XX$ $XX$ 111stBubblerRoom 200 ** Removed ** $$ $XX$ $$ $XX$ 121stBubblerPoolRoom 230 ** Removed ** $$ $XX$ $$ $XX$ 131stBubblerPoolRoom 230 ** Removed ** $$ $XX$ $$ $XX$ 141stBubblerPoolRoom 230 ** Removed ** $$ $XX$ $$ $XX$ 151stBubblerPoolRoom 230 ** Removed ** $$ $XX$ $$ $XX$ 151stBubblerBubblerBoubblerHaltway-by Room 300 $$ $XX$ $$ $XX$ 161stChillerHaltway-by Room 300 $$ $$ $XX$ $$ $XX$ 161stChillerHaltway-by Room 300 $$ $$ $XX$ $$ $XX$ 171stSinkPoolPolNurse's Office - Front Room $$ $$ $XX$ 171stSinkPolNurse's Office - Front Room $$ $$ $$ $$ $$ $XX$ 181stSink <td>RK-061022-01</td> <td>9</td> <td>1st</td> <td>Pot Filler</td> <td></td> <td>Kitchen 12B - Pot Filler</td> <td>07:18</td> <td>XX</td> <td>15.0</td>	RK-061022-01	9	1st	Pot Filler		Kitchen 12B - Pot Filler	07:18	XX	15.0
8         1st         Chiller         Bottle Filler         Haltway - by closet 151         XX         XX         XX           9         1st         Sink         N         Bottle         Room 190         O7:27         XX         XX         XX           10         1st         Bubbler         N         Room 200 ** Removed **          XX          XX         X           11         1st         Bubbler         N         Room 210 ** Removed **          XX	RK-061022-03	2	1st	Chiller		Hallway - by closet 111	07:25	xx	1.0
9         1st         Sink         Room 190         07:41         XX         XX           10         1st         Bubbler         Poom 200 **Removed**          XX         X           11         1st         Bubbler         Room 200 **Removed**          XX         X           12         1st         Bubbler         Room 200 **Removed**          XX         X           13         1st         Bubbler         Room 240 **Removed**          XX         X           14         1st         Bubbler         Room 240 **Removed**          XX         X           15         1st         Bubbler         Room 240 **Removed**          XX         X           16         1st         Bubbler         Botter Hiller         Haltway -by Room 300         07:38         XX         Y           17         1st         Chiller         Haltway -by Room 300         07:38         XX         Y           16         1st         Chiller         Haltway -by Room 300         07:38         XX         Y           17         1st         Sink         Nurse's Office -Front Room         07:30         YX         Y	RK-061022-04	ø	1st	Chiller		Haliway - by closet 151	07:27	ХΧ	2.6
10         1st         Bubbler         Poom 200 ** Removed **          XX         XX           11         1st         Bubbler         Room 210 ** Removed **          XX         X           12         1st         Bubbler         Room 230 ** Removed **          XX         X           13         1st         Bubbler         Room 240 ** Removed **          XX         X           14         1st         Bubbler         Room 250 ** Removed **          XX         X           15         1st         Bubbler         Bubbler         Room 250 ** Removed **          XX         X           16         1st         Chiller         Bottle Filler         Hallway - by Room 300         07:38         XX         Y           17         1st         Chiller         Halsey Taylor         Hallway - by Room 300         07:38         XX         Y           18         1st         Sink         Halsey Taylor         Hallway - by Room 300         07:38         XX         Y           19         1st         Sink         Nurse's Office - Front Room         07:30         XX         Y           19         1st         Sink	RK-061022-13	6	1st	Sink		Room 190	07:41	XX	1.8
11         1st         Bubbler         Room 210 ** Removed **          XX           12         1st         Bubbler         Room 230 ** Removed **          XX           13         1st         Bubbler         Room 240 ** Removed **          XX           14         1st         Bubbler         Room 240 ** Removed **          XX           14         1st         Bubbler         Room 240 ** Removed **          XX           15         1st         Bubbler         Bottle Filler         Haltway - by Room 300          XX           16         1st         Chiller         Haltway - by Room 300         ** Removed **          XX           16         1st         Chiller         Haltway - by Room 300         ** Removed **          XX           16         1st         Chiller         Haltway - by Room 360B ** Removed **          XX         -           17         1st         Chiller         Haltway - by Room 360B ** Removed **          XX         -           18         1st         Sink         Nurse's Office - Front Room         07:30         XX         -           18         1st	1	10	1st	Bubbler		ļ	1	xx	ł
12         1st         Bubbler         ~         XX         XX           13         1st         Bubbler         ~         Room 230 * <b>Removed</b> **         ~         XX         YX           14         1st         Bubbler         Non         Room 250 * <b>Removed</b> **         >         XX         YX           14         1st         Bubbler         Bottle Filler         Hallway-by Room 300         07:38         XX         YX           15         1st         Chiller         Bottle Filler         Hallway-by Room 300         07:38         XX         YX           16         1st         Chiller         Bottle Filler         Hallway-by Room 300         07:38         XX         YX           17         1st         Chiller         Halswy Chiller         Hallway - by Room 300         07:38         XX         YX           18         1st         Sink         Nuse's Office - Front Room         07:30         XX         YX           18         1st         Sink         Nuse's Office - Front Room         07:30         XX         YX           19         1st         Sink         Nuse's Office - Front Room         07:30         XX         YX           20         1st	1	11	1st	Bubbler			1	XX	I
13         1st         Bubbler          XX           14         1st         Bubbler         Room 250 ** Removed **          XX           15         Bubbler         Room 250 ** Removed **          XX           15         Ist         Bubbler         Room 250 ** Removed **          XX           16         1st         Chiller         Halkway - by Room 300         07:38         XX         YX           16         1st         Chiller         Halsey Taylor         Hallway - by Room 360B ** Removed **          XX         YX           17         1st         Sink         Muse' Coffice - Kront Room         07:38         XX         YX           18         1st         Sink         Nurse's Office - Front Room         07:30         XX         YX           19         1st         Sink         Nurse's Office - Side Room         07:30         XX         YX           20         1st         Sink         Halway - by Gym, left side         07:32         XX         YX	1	12	1st	Bubbler		5	I	хх	1
14         1st         Bubbler         Room 250 ** Removed **         -         XX         YX           15         1st         Chiller         Bottle Filler         Hallway - by Room 300         07:38         XX         YX           16         1st         Chiller         Hallway - by Room 300         07:38         XX         YX           17         1st         Chiller         Hallway - by Room 360B ** Removed **          XX         YX           17         1st         Chiller         Hallway - by Room 360B ** Removed **          XX         YX           18         1st         Sink         Nurse's Office - Front Room         07:38         XX         YX           19         1st         Sink         Nurse's Office - Side Room         07:30         XX         YX           20         1st         Chiller         Elkay         Hallway - by Gym, left side         07:32         XX         YX	1	13	1st	Bubbler			1	XX	1
15         1st         Chiller         Bottle Filler         Hallway - by Room 300         07:38         XX         XX           16         1st         Chiller         Halsey Taylor         Halsway - by Room 360B ** Removed **          XX         YX           17         1st         Chiller         Halsey Taylor         Allway - by Room 360B ** Removed **          XX         YX           18         1st         Sink         Nurse's Office Workroom         07:28         XX         YX           18         1st         Sink         Nurse's Office - Front Room         07:30         XX         YX           19         1st         Sink         Nurse's Office - Side Room         07:30         XX         YX           20         1st         Chiller         Elkay - by Gym, left side         07:32         XX         YX	1	14	1st	Bubbler			1	X	1
16         1st         Chiller         Halsey Taytor         Hallway - by Room 360B ** Removed **          XX           17         1st         Sink         Office Workroom         Office Workroom         07:28         XX           18         1st         Sink         Nurse's Office - Front Room         07:30         XX           19         1st         Sink         Nurse's Office - Side Room         07:30         XX           20         1st         Chiller         Elkay         Halway - by Gym, left side         07:32         XX	RK-061022-12	15	1st	Chiller	Bottle Filler	Hallway - by Room 300	07:38	ХХ	QN
17         1st         Sink         Office Workroom         07:28         XX           18         1st         Sink         Nurse's Office - Front Room         07:30         XX           19         1st         Sink         Nurse's Office - Side Room         07:30         XX           20         1st         Chiler         Elkay         Hallway - by Gym, left side         07:32         XX	1	16	1st	Chiller	Halsey Taylor		-	ХХ	1
18         1st         Sink         Nurse's Office - Front Room         07:30         XX           19         1st         Sink         Nurse's Office - Side Room         07:30         XX           20         1st         Chiller         Elkay         Hallway - by Gym, left side         07:32         XX	RK-061022-05	<u> </u>	1st	Sink		Office Workroom	07:28	XX	1.0
19         1st         Sink         Nurse's Office - Side Room         07:30         XX           20         1st         Chiller         Elkay         Hallway - by Gym, left side         07:32         XX	RK-061022-06	<u> </u>	1st	Sink		Nurse's Office - Front Room	07:30	XX	1.7
20         1st         Chiller         Elkay         Hallway - by Gym, left side         07:32         XX	RK-061022-07	19	1st	Sink		Nurse's Office - Side Room	07:30	XX	1.7
	RK-061022-08		1st	Chiller	Elkay	Hallway - by Gym, left side	07:32	XX	QN

Sample Type:

1st: First Draw sample collected after water sat in pipe between 8 and 18 hours FL: Water flushed through tap for at least 2 minutes ND: means Not Detected at or above the <u>Reliability Detection Limit</u> (RDL) of 0.0010 mg/L for Lead.

# Page 1 of 2

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White Township School Name of Building

Samule Collected hv PD McGuinness 10-Jun-22 Date Collected

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uinness	(mg/L)	qd	QN	QN	QN									
PD MCG	Results (mg/L)	Cu	xx	XX	xx									
ected by		Time	07:32	07:32	07:34									
Sample Collected by PD McGuinness														
		Sample Location	Hallway - by Gym, center	Hallway - by Gym, right side	MD Room 520									
of Educ	Mfg/Model	Serial No.	Bottle Filler	Elkay										
White Township Bd of Educ	Type of	Outlet	Chiller	Chiller	Sink									
White 1	Sample	Type	1st	1st	1st				 	 				
ēr	Tap	No.	21	52	23									
Building Owner	Sample	No.	RK-061022-09	RK-061022-10	RK-061022-11									

Sample Type:

1st: First Draw sample collected after water sat in pipe between 8 and 18 hours FL: Water flushed through tap for at least 2 minutes ND: means Not Detected at or above the <u>Reliability Detection Limit (RDL) of 0.0010 mg/L for Lead.</u>



#### CERTIFICATE OF ANALYSIS

Client: R. K. Environmental Consultants 401 St. James Ave. Phillipsburg NJ 08865 Report Date:6/14/2022Report No.:662672 - Lead WaterProject:White Township SchoolProject No.:22-074

Client: RKE630

# LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.:7442078 Client No.:RK-061022-02	Location:Cafeteria 11B Chiller * Sample acidified to pH <2.	<b>Result(ppb):</b> <1.00
Lab No.:7442079 Client No.:RK-061022-01	Location:Kitchen 12B - Pot Filler * Sample acidified to pH <2.	Result(ppb):15.0
Lab No.:7442080 Client No.:RK-061022-03		Result(ppb):1.00
Lab No.:7442081 Client No.:RK-061022-04	Location: Hallway - By Closet 151 Chiller Bottle Filler	<b>Result(ppb):</b> 2.60
Lab No.:7442082 Client No.:RK-061022-13	Location:Room 190 Sink	Result(ppb): 1.80
Lab No.:7442083 Client No.:RK-061022-12	Location:Hallway - By Room 300 Chiller Bottle Filler * Sample acidified to pH <2.	<b>Result(ppb):</b> <1.00
Lab No.:7442084 Client No.:RK-061022-05	Location:Office Workroom Sink * Sample acidified to pH <2.	<b>Result(ppb):</b> 1.00
Lab No.:7442085 Client No.:RK-061022-06	Location:Nurse's Office - Front Room Sink * Sample acidified to pH <2.	<b>Result(ppb):</b> 1.70
Lab No.:7442086 Client No.:RK-061022-07	Location:Nurse's Office - Side Room Sink * Sample acidified to pH <2.	Result(ppb): 1.70
Lab No.:7442087 Client No.:RK-061022-08	<b>Location:</b> Hallway - By Gym, Left Side Chiller Elkay * Sample acidified to pH <2.	Result(ppb):<1.00

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received:	6/10/2022	Approved By:	Frank Enconfel
Date Analyzed:	06/14/2022		Frank E. Ehrenfeld, III
Signature:	and Standit		Laboratory Director
Analyst:	Mark Stewart		

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#### Client: R. K. Environmental Consultants 401 St. James Ave. Phillipsburg NJ 08865

CERTIFICATE OF ANALYSIS

Report Date:6/14/2022Report No.:662672 - Lead WaterProject:White Township SchoolProject No.:22-074

Client: RKE630

# LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.:7442088 Client No.:RK-061022-09	Location:Hallway - By Gym, Center Chiller Bottle Filler * Sample acidified to pH <2.	Result(ppb):<1.00
Lab No.:7442089 Client No.:RK-061022-10	Location:Hallway - By Gym, Right Side Chiller Elkay * Sample acidified to pH <2.	<b>Result(ppb):</b> <1.00
Lab No.:7442090 Client No.:RK-061022-11	<b>Location:</b> MD Room 520 Sink * Sample acidified to pH <2.	Result(ppb):<1.00

Please refer to the Appendix of this report for further information regarding your analysis.

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Approved By:

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Frank E. Ehrenfeld, III Laboratory Director

Dated : 6/15/2022 10:38:20



#### CERTIFICATE OF ANALYSIS

Client: R. K. Environmental Consultants 401 St. James Ave. Phillipsburg NJ 08865

Client: RKE630

Report Date:6/14/2022Report No.:662672 - Lead WaterProject:White Township SchoolProject No.:22-074

# Appendix to Analytical Report:

Customer Contact: Jonathan Gilbert Analysis: AAS-GF - ASTM D3559-08D

This appendix seeks to promote greater understanding of any observations, exceptions, special instructions, or circumstances that the laboratory needs to communicate to the client concerning the above samples. The information below is used to help promote your ability to make the most informed decisions for you and your customers. Please note the following points of contact for any questions you may have.

iATL Customer Service: customerservice@iatl.com iATL OfficeManager: ?wchampion@iatl.com iATL Account Representative: Shirley Clark Sample Login Notes: See Batch Sheet Attached Sample Matrix: Water Exceptions Noted: See Following Pages

#### General Terms, Warrants, Limits, Qualifiers:

General information about iATL capabilities and client/laboratory relationships and responsibilities are spelled out in iATL policies that are listed at www.iATL.com and ir our Quality Assurance Manual per ISO 17025 standard requirements. The information therein is a representation of iATL definitions and policies for turnaround times, sample submittal, collection media, blank definitions, quantification issues and limit of detection, analytical methods and procedures, sub-contracting policies, results reporting options, fees, terms, and discounts, confidentiality, sample archival and disposal, and data interpretation.

iATL warrants the test results to be of a precision normal for the type and methodology employed for each sample submitted. iATL disclaims any other warrants, expressed or implied, including warranty of fitness for a particular purpose and warranty of merchantability. iATL accepts no legal responsibility for the purpose for which the client uses test results. Any analytical work performed must be governed by our Standard Terms and Conditions. Prices, methods and detection limits may be changed without notification. Please contact your Customer Service Representative for the most current information.

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA LAP LLC, or any agency of local, state or province governments nor of any agency of the U.S. government.

This report shall not be reproduced except in full, without written approval of the laboratory.

#### Information Pertinent to this Report:

Analysis by AAS Graphite Furnace: - ASTM D3559-08D <u>Certification:</u> - NYS-DOH No. 11021 - NJDEP No. 03863

Note: These methods are analytically equivalent to iATL's accredited method;

- USEPA 40CFR 141.11B

- USEPA 200.9 Pb, AAS-GF, RL <2 ppb/sample

- USEPA SW 846-7421 - Pb(AAS-GF, RL <2 ppb/sample)

Regulatory limit for lead in drinking water is 15.0 parts per billion as cited in EPA 40 CFR 141.11 National Primary Drinking Water Regulations, Subpart B: Maximum contaminant levels for inorganic chemicals.

All results are based on the samples as received at the lab. iATL assumes that appropriate sampling methods have been used and that the data upon which these results are based have been accurately supplied by the client.

Sample results are not corrected for contamination by field or analytical blanks.

PPB = Parts per billion. 1  $\mu$ g/L = 1 ppb MDL = 0.24 PPB Reporting Limit (RL) = 1.0 PPB



6/14/2022

22-074

662672 - Lead Water

White Township School

Report Date:

Report No.:

Project No .:

Project:

#### CERTIFICATE OF ANALYSIS

Client: R. K. Environmental Consultants 401 St. James Ave. Phillipsburg NJ 08865

Client: RKE630

#### **Disclaimers / Qualifiers:**

There may be some samples in this project that have a "NOTE:" associated with a sample result. We use added disclaimers or qualifiers to inform the client about something that requires further explanation. Here is a complete list with highlighted disclaimers pertinent to this project. For a full explanation of these and other disclaimers, please inquire at customerservice@iatl.com.

Matrix spiking is performed on each client batch to determine if interferences could impact results. When spike recoveries fall out of acceptable range matrix interference is suspected and samples are diluted until acceptable spike recovery can be achieved. Reporting limits will increase by the same degree as the dilution required.

Note: Sample dilution required due to matrix interference.

Water Sample Turbidity greater than 1.0 NTU does not meet Federal and NJ State Primary & Secondary Drinking Water Standards.

\* ASTM D3559 (D) calls for the addition of acid at the time of sampling. Unless so noted on the chain of custody by the client iATL acidifies samples to a pH of <2 at least 24 hours prior to analysis.



# Chain of Custody

Contact Information       Project Number:       22-074         Client Company:       R. K. Environmental Consultants       Project Number:       22-074         Office Address:       401 St. James Ave.       Project Name:       White Township School         City, State, Zip:       Phillipsburg, NJ 08865       Primary Contact:       Pat McGuinness         Fax Number:       9084544818       Office Phone:       9083102663         Email Address:       pdmcguinness@enter.net       Cell Phone:       9083102663
Consultants       Project Name:       22-074         Office Address:       401 St. James Ave.       Project Name:       White Township School         City, State, Zip:       Phillipsburg, NJ 08865       Primary Contact:       Pat McGuinness         Fax Number:       9084544818       Office Phone:       9083102663         Email Address:       pdmcguinness@enter.net       Cell Phone:       9083102663
Consultants         Office Address:       401 St. James Ave.         City, State, Zip:       Phillipsburg, NJ 08865         Fax Number:       9084544818         Email Address:       pdmcguinness@enter.net
City, State, Zip:     Phillipsburg, NJ 08865     Project Name:     White Township School       Fax Number:     9084544818     Primary Contact:     Pat McGuinness       Email Address:     pdmcguinness@enter.net     Cell Phone:     9083102663
City, State, Zip:       Phillipsburg, NJ 08865       Primary Contact:       Pat McGuinness         Fax Number:       9084544818       Office Phone:         Email Address:       pdmcguinness@enter.net       Cell Phone:
Email Address:     pdmcguinness@enter.net     Office Phone:     9083102663
Cell Phone: 9083102663
iATL is accredited by the National Lead Laboratory Accreditation Program (NLLAP) to perform analytical testing of environmental samples for lead (Pb). The accreditation is through AIHA-LAP, LLC and several other nationally recognized state programs.
Matrix/Method
Paint by AAS: ASTM D3335-85a, 2009
D2010 Wipe/Dust by AAS: SW 846: 3050B: 700B, 13 × Water Sampler for Ph
Air by AAS: NIOSH 7082, 1994
Wipe/Dust by AAS: SW 846: 3050B: 700B, 2010 Air by AAS: NIOSH 7082, 1994 Soil by AAS: EPA SW 846 (Soil) Water by AAS-GF: ASTM D3559-03D, US EPA 200.9 Other Metals (Cd, Zn, Cr) by AAS
Water by AAS-GF: ASTM D3559-03D, US EPA 200.9 S- diAy Results
Toxicity Characteristic Leaching Procedure (TCLP) by AAS: US EPA 1311
Other
Special Instructions:
See Attrached stample log (2pgs)
De minister simple roj ( 2085)
Turnaround Time Preliminary Results Requested Date: 6/17/2022 5:00:00 PM
Specific date/time Email Copy Portal Verba
* End of next business day unless otherwise specified. ** Matrix Dependent. *** Please notify the lab before shipping ***
Chain of Custody
Relinquished (Name/Organization): Amdan Date: 6/10/22 Time: Haw Coschy
Received (Name/iATL); Date: Time:
Sample Login (Name/iATL):
Analysis (Name(s)/iATL):
Analysis (Name(s)/iATL):
Analysis (Name(s)/iATL):       M       6//14/bb       Date:       Time:         QA/QC Review (Name/iATL):
Analysis (Name(s)/iATL): Date: Time: Time: