

Creating Solutions. Exceeding Expectations.

# LEAD IN DRINKING WATER SAMPLING

FOR

COMMUNITY CHARTER SCHOOL OF PATERSON 75 SPRUCE STREET PATERSON, NJ 07501

PROJECT 22-03-05T

**8 MORRIS AVENUE** 

PERFORMED BY

WHITMAN

May 9, 2022

7 Pleasant Hill Road, Cranbury, NJ 08512 www.whitmanco.com

#### LEAD IN DRINKING WATER SAMPLING COMMUNITY CHARTER SCHOOL OF PATERSON PATERSON, NEW JERSEY

#### Table of Contents

| 1.0 | PROJECT BACKGROUND                                 | 1   |
|-----|--|-----|
|     | SAMPLING/SCREENING METHODOLOGY<br>2.1 Purpose      | . 2 |
|     | 2.2 NJDEP Limits                                   | . 2 |
| 3.0 | LEAD IN DRINKING WATER SAMPLING RESULTS DISCUSSION | 3   |
| 4.0 | CONCLUSIONS  | 3   |
| 5.0 | LIMITATIONS, EXCEPTIONS AND ASSUMPTIONS            | 3   |

#### **ATTACHMENTS**

Attachment 1 – Lead Sampling Results



#### LEAD IN DRINKING WATER SAMPLING COMMUNITY CHARTER SCHOOL OF PATERSON PATERSON, NEW JERSEY

#### 1.0 PROJECT BACKGROUND

There are three ways that lead can contaminate drinking water in school facilities, the water source, the plumbing material, or the actual drinking water outlet fixture. Most sources of drinking water (e.g. ground and surface water) have no lead, or very low levels of lead (i.e., under 5 micrograms per liter [µg/l] or parts per billion [ppb]). Once the drinking water leaves the public water supply system or treatment plant, it comes into contact with piping and plumbing materials that may contain lead. Some lead may get into the water from the distribution system - the network of pipes that carry the water to homes, businesses, and schools in the community. Some communities have lead components in their distribution systems, such as lead joints in cast iron mains, service connections, pigtails, and goosenecks. Even though a public water supplier may deliver water that meets all Federal and State public health standards for lead, there may be lead in the drinking water because of the plumbing in the school facility. Interior plumbing, soldered joints, leaded brass fittings, and various drinking water outlets that contain lead materials are the primary contributors of lead in drinking water. It is also important to note that brass plumbing components contain lead. Since 1986, all plumbing materials must be "lead free". Although there is an increased probability that a given plumbing component installed prior to 1986 could contain more lead than the newer components, the occurrence of lead in drinking water cannot be predicted solely based upon the age of the component or the school facility. The current law allows plumbing materials up to 0.25 percent lead to be labeled as "lead free". However, prior to January 4, 2014, "lead free" allowed up to 8 percent lead content of the wetted surfaces of plumbing products including those labeled National Sanitation Foundation (NSF) certified. The best way to determine if a school might have elevated levels of lead in its drinking water is by testing the drinking water in that school. Testing facilitates an evaluation of the plumbing materials and helps target appropriate remedial action. It is a key step in understanding the problem, if there is one, and designing an appropriate response.

#### 2.0 <u>SAMPLING/SCREENING METHODOLOGY</u>

#### 2.1 Purpose

Lead in a water sample taken from an outlet can originate from the outlet fixture (e.g. the faucet, bubbler etc.), plumbing upstream of the outlet fixture (e.g. pipe, joints, valves, fittings etc.), or it can already be in the water that is entering the facility. Sample results are then compared to assist in determining the sources of lead contamination and the appropriate corrective measures. Prior to sampling, Whitman ensured that outlets deviating from normal usage were flushed 8-48 hours prior to sampling.

Initial first draw samples are taken from drinking water outlets and food preparation outlets (e.g., bubblers, kitchen faucets) in the facility. These samples determine the lead content of water sitting in water outlets that are used for drinking or cooking within the building(s).

#### 2.2 NJDEP Limits

If initial first draw test results reveal lead concentrations greater than 15  $\mu$ g/l (ppb) in a 250 mL sample for a given outlet, follow-up flush testing is required to determine if the lead contamination results are from the fixture or from interior plumbing.

### 3.0 LEAD IN DRINKING WATER SAMPLING RESULTS DISCUSSION

The summary of lead sample results is presented below. Sampling conducted was in compliance with NJDEP protocol and all samples were submitted to Integrated Analytical Laboratories (NJDEP NELAP #14751) under a completed Chain of Custody Form.

| Outlet ID #                      | Sample # | Date      | Time    | Lead Result<br>µg/L |
|----------------------------------|----------|-----------|---------|---------------------|
| KITCHEN                          | S1       | 4/19/2022 | 7:55 am | Non-Detect          |
| CAFÉ NEXT TO FRIDGE              | S2       | 4/19/2022 | 7:57 am | Non-Detect          |
| HW R106                          | S3       | 4/19/2022 | 8:00 am | Non-Detect          |
| HW R503 RIGHT                    | S4       | 4/19/2022 | 8:04 am | Non-Detect          |
| HW R503 LEFT                     | S5       | 4/19/2022 | 8:05 am | Non-Detect          |
| HW R404 RIGHT                    | S6       | 4/19/2022 | 8:10 am | Non-Detect          |
| HW R404 LEFT                     | S7       | 4/19/2022 | 8:11 am | Non-Detect          |
| HW R304 LEFT                     | S8       | 4/19/2022 | 8:14 am | Non-Detect          |
| HW R304 RIGHT                    | S9       | 4/19/2022 | 8:15 am | Non-Detect          |
| NURSE'S OFFICE 3RD FLOOR         | S10      | 4/19/2022 | 8:18 am | Non-Detect          |
| HW R204 LEFT                     | S11      | 4/19/2022 | 8:21 am | Non-Detect          |
| HW R204 RIGHT                    | S12      | 4/19/2022 | 8:22 am | Non-Detect          |
| GYM HW JANITOR'S CLOSET<br>LEFT  | S13      | 4/19/2022 | 8:27 am | Non-Detect          |
| GYM HW JANITOR'S CLOSET<br>RIGHT | S14      | 4/19/2022 | 8:28 am | Non-Detect          |
| BLANK                            |          | 4/19/2022 |         | Non-Detect          |

#### 4.0 CONCLUSIONS

All lead results were below the 15  $\mu$ g/L New Jersey Action Level.

#### 5.0 LIMITATIONS, EXCEPTIONS AND ASSUMPTIONS

Opinions and recommendations presented in this report apply to site conditions and features as they existed at the time of Whitman's site visit, and those reasonably foreseeable. They cannot necessarily apply to conditions and features of which Whitman is unaware and has not had the opportunity to evaluate.

The conclusions presented in this report are professional opinions based solely upon Whitman's visual observations of accessible areas, testing data, and current regulatory requirements. These conclusions are intended exclusively for the purpose state herein, at the sites indicated, and for the project indicated.

No expressed or implied representation or warranty is included or intended in our reports, except that our services were performed, within the limits prescribed by our client, with the customary thoroughness and competence of our profession.

Feel free to contact me at 732-390-5858 with any questions or if further clarification is needed.

Sincerely,

John Beaupre Senior Vice President

Attachments

## LEAD SAMPLING RESULTS

ATTACHMENT 1



#### Attn: John Beaupre Whitman Compa

Whitman Companies, Inc. 100 Franklin Square Dr. Suite 200 Somerset, NJ 08873

Phone: (732) 390-5858 Fax: (732) 390-9496

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 4/20/2022. The results are tabulated on the attached data pages for the following client designated project:

#### Community Charter School of Paterson- 8 morins Ave.

The reference number for these samples is EMSL Order #012206257. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (856) 303-2500.

Approved By:

MM M

Owen McKenna, Chemistry Laboratory Director



The test results contained within this report meet the requirements of NELAP and/or the specific certification program that is applicable, unless otherwise noted. NELAP Certifications: NJ 03036, NY 10872, PA 68-00367, CA ELAP 1877

The samples associated with this report were received in good condition unless otherwise noted. This report relates only to those items tested as received by the laboratory. The QC data associated with the sample results meet the recovery and precision requirements established by the NELAP, unless specifically indicated. All results for soil samples are reported on a dry weight basis, unless otherwise noted. This report may not be reproduced except in full and without written approval by EMSL Analytical, Inc.

5/6/2022

| EN           | <b>NSL</b>            | EMSL Analytical, Inc<br>200 Route 130 North, Cinnaminson<br>Phone/Fax: (856) 303-2500 / (856)<br>http://www.EMSL.com | , NJ 08077  | <u>n</u>                    |   | EMSL Order:<br>CustomerID:<br>CustomerPO:<br>ProjectID: | 012206257<br>WHIT53<br>22-03-05T |
|--------------|-----------------------|--|-------------|-----------------------------|---|---|----------------------------------|
| W<br>10<br>S | 00 Frankl<br>uite 200 | ipre<br>Companies, Inc.<br>in Square Dr.<br>NJ 08873   |             | Phone:<br>Fax:<br>Received: | (732) 390-5858<br>(732) 390-9496<br>4/20/2022 09:00 | AM  |                                  |
| Proiect:     | Community             | Charter School of Paterson- 8  | morins Ave. |                             |   |   |                                  |

| Client Sample De | escription S1 |        | Collected: | 4/19/2022<br>7:55:00 AM |                 | ıb ID: | 012206257-000            | 01  |
|------------------|---------------|--------|------------|-------------------------|-----------------|--------|--------------------------|-----|
| Method           | Parameter     | Result | RL Unit    | s                       | Pre<br>Date & A |        | Analysis<br>Date & Analy | /st |
| METALS           |               |        |            |                         |                 |        |                          |     |
| 200.8            | Lead          | ND     | 1.00 µg/L  |                         | 5/5/2022        | VD     | 5/6/2022 00:31           | VD  |
| Client Sample De | escription S2 |        | Collected: | 4/19/2022<br>7:57:00 AM |                 | nb ID: | 012206257-000            | )2  |
| Method           | Parameter     | Result | RL Unit    | s                       | Pre<br>Date & A |        | Analysis<br>Date & Analy | /st |
| METALS           |               |        |            |                         |                 |        |                          |     |
| 200.8            | Lead          | ND     | 1.00 µg/L  |                         | 5/5/2022        | VD     | 5/6/2022 00:33           | VD  |
| Client Sample De | escription S3 |        | Collected: | 4/19/2022<br>8:00:00 AM |                 | ib ID: | 012206257-000            | )3  |
| Method           | Parameter     | Result | RL Unit    | s                       | Pre<br>Date & A |        | Analysis<br>Date & Analy | /st |
| METALS           |               |        |            |                         |                 |        |                          |     |
| 200.8            | Lead          | ND     | 1.00 µg/L  |                         | 5/5/2022        | VD     | 5/6/2022 00:35           | VD  |
| Client Sample De | escription S4 |        | Collected: | 4/19/2022<br>8:04:00 AM |                 | ıb ID: | 012206257-000            | )4  |
| Method           | Parameter     | Result | RL Unit    | s                       | Pre<br>Date & A |        | Analysis<br>Date & Analy | /st |
| METALS           |               |        |            |                         |                 |        |                          |     |
| 200.8            | Lead          | ND     | 1.00 µg/L  |                         | 5/5/2022        | VD     | 5/6/2022 00:37           | VD  |
| Client Sample De | escription S5 |        | Collected: | 4/19/2022<br>8:05:00 AM |                 | ib ID: | 012206257-000            | )5  |
| Method           | Parameter     | Result | RL Unit    | s                       | Pre<br>Date & A |        | Analysis<br>Date & Analy | /st |
|                  |               |        |            |                         |                 |        |                          |     |
| METALS           |               |        |            |                         |                 |        |                          |     |

| EN           |                       | EMSL Analytical, Inc<br>200 Route 130 North, Cinnaminson,<br>Phone/Fax: (856) 303-2500 / (856)<br>http://www.EMSL.com | NJ 08077    | <u>n</u>                    |   | EMSL Order:<br>CustomerID:<br>CustomerPO:<br>ProjectID: | 012206257<br>WHIT53<br>22-03-05T |
|--------------|-----------------------|---|-------------|-----------------------------|---|---|----------------------------------|
| W<br>10<br>S | 00 Frankl<br>uite 200 | ipre<br>Companies, Inc.<br>in Square Dr.<br>NJ 08873  |             | Phone:<br>Fax:<br>Received: | (732) 390-5858<br>(732) 390-9496<br>4/20/2022 09:00 | AM  |                                  |
| Proiect:     | Community             | Charter School of Paterson- 8   | morins Ave. |                             |   |   |                                  |

| Client Sample De | scription S6  |        | Collected: | 4/19/2022<br>8:10:00 AM |                  | b ID: | 012206257-000            | 06  |
|------------------|---------------|--------|------------|-------------------------|------------------|-------|--------------------------|-----|
| Method           | Parameter     | Result | RL Unit    | s                       | Prej<br>Date & A |       | Analysis<br>Date & Analy | /st |
| METALS           |               |        |            |                         |                  |       |                          |     |
| 200.8            | Lead          | ND     | 1.00 µg/L  |                         | 5/5/2022         | VD    | 5/6/2022 00:42           | VD  |
| Client Sample De | scription S7  |        | Collected: | 4/19/2022<br>8:11:00 AM |                  | b ID: | 012206257-000            | )7  |
| Method           | Parameter     | Result | RL Unit    | 'S                      | Prej<br>Date & A |       | Analysis<br>Date & Analy | /st |
| METALS           |               |        |            |                         |                  |       |                          |     |
| 200.8            | Lead          | ND     | 1.00 µg/L  |                         | 5/5/2022         | VD    | 5/6/2022 00:48           | VD  |
| Client Sample De | scription S8  |        | Collected: | 4/19/2022<br>8:14:00 AM |                  | b ID: | 012206257-000            | )8  |
| Method           | Parameter     | Result | RL Unit    | 's                      | Prej<br>Date & A |       | Analysis<br>Date & Analy | /st |
| METALS           |               |        |            |                         |                  |       |                          |     |
| 200.8            | Lead          | ND     | 1.00 µg/L  |                         | 5/5/2022         | VD    | 5/6/2022 00:50           | VD  |
| Client Sample De | scription S9  |        | Collected: | 4/19/2022<br>8:15:00 AM |                  | b ID: | 012206257-000            | )9  |
| Method           | Parameter     | Result | RL Unit    | 's                      | Prej<br>Date & A |       | Analysis<br>Date & Analy | /st |
| METALS           |               |        |            |                         |                  |       |                          |     |
| 200.8            | Lead          | ND     | 1.00 µg/L  |                         | 5/5/2022         | VD    | 5/6/2022 00:56           | VD  |
| Client Sample De | scription S10 |        | Collected: | 4/19/2022<br>8:18:00 AM |                  | b ID: | 012206257-001            | 10  |
| Method           | Parameter     | Result | RL Unit    | Ś                       | Prej<br>Date & A |       | Analysis<br>Date & Analy | /st |
| METALS           |               |        |            |                         |                  |       |                          |     |
|                  |               |        |            |                         |                  |       |                          |     |

| EN           |                       | EMSL Analytical, Inc<br>200 Route 130 North, Cinnaminson,<br>Phone/Fax: (856) 303-2500 / (856)<br>http://www.EMSL.com | NJ 08077    |                             |   | EMSL Order:<br>CustomerID:<br>CustomerPO:<br>ProjectID: | 012206257<br>WHIT53<br>22-03-05T |
|--------------|-----------------------|---|-------------|-----------------------------|---|---|----------------------------------|
| W<br>10<br>S | 00 Frankl<br>uite 200 | ipre<br>Companies, Inc.<br>Iin Square Dr.<br>NJ 08873   |             | Phone:<br>Fax:<br>Received: | (732) 390-5858<br>(732) 390-9496<br>4/20/2022 09:00 | AM  |                                  |
| Project:     | Community             | Charter School of Paterson- 8   | morins Ave. |                             |   |   | ,                                |

| Client Sample De | escription S11        |        | Collected: | 4/19/2022               | La              | b ID: | 012206257-001            | 11  |
|------------------|-----------------------|--------|------------|-------------------------|-----------------|-------|--------------------------|-----|
|                  | •                     |        |            | 8:21:00 AM              |                 |       |                          |     |
| Method           | Parameter             | Result | RL Unit    | s                       | Pre<br>Date & A |       | Analysis<br>Date & Analy | /st |
| METALS           |                       |        |            |                         |                 |       |                          |     |
| 200.8            | Lead                  | ND     | 1.00 µg/L  |                         | 5/5/2022        | VD    | 5/6/2022 01:00           | VD  |
| Client Sample De | escription S12        |        | Collected: | 4/19/2022<br>8:22:00 AM |                 | b ID: | 012206257-001            | 12  |
| Method           | Parameter             | Result | RL Unit    | s                       | Pre<br>Date & A |       | Analysis<br>Date & Analy | /st |
| METALS           |                       |        |            |                         |                 |       |                          |     |
| 200.8            | Lead                  | ND     | 1.00 µg/L  |                         | 5/5/2022        | VD    | 5/6/2022 01:02           | VD  |
| Client Sample De | escription S13        |        | Collected: | 4/19/2022<br>8:27:00 AM |                 | b ID: | 012206257-001            | 13  |
| Method           | Parameter             | Result | RL Unit    | s                       | Pre<br>Date & A |       | Analysis<br>Date & Analy | /st |
| METALS           |                       |        |            |                         |                 |       |                          |     |
| 200.8            | Lead                  | ND     | 1.00 µg/L  |                         | 5/5/2022        | VD    | 5/6/2022 01:04           | VD  |
| Client Sample De | escription S14        |        | Collected: | 4/19/2022<br>8:28:00 AM |                 | b ID: | 012206257-001            | 14  |
| Method           | Parameter             | Result | RL Unit    | s                       | Pre<br>Date & A |       | Analysis<br>Date & Analy | /st |
| METALS           |                       |        |            |                         |                 |       |                          |     |
| 200.8            | Lead                  | ND     | 1.00 µg/L  |                         | 5/5/2022        | VD    | 5/6/2022 01:06           | VD  |
| Client Sample De | escription TRIP BLANK |        | Collected: | 4/19/2022<br>8:33:00 AM |                 | b ID: | 012206257-001            | 15  |
| Method           | Parameter             | Result | RL Unit    | s                       | Pre<br>Date & A |       | Analysis<br>Date & Analy | /st |
| METALS           |                       |        |            |                         |                 |       |                          |     |
| 200.8            | Lead                  | ND     | 1.00 µg/L  |                         | 5/5/2022        | VD    | 5/6/2022 01:08           | VD  |

Definitions:

MDL - method detection limit

J - Result was below the reporting limit, but at or above the MDL ND - indicates that the analyte was not detected at the reporting limit

RL - Reporting Limit (Analytical) D - Dilution Sample required a dilution which was used to calculate final results

| Grolled Document - COC-07 Chemistry R11 02/26/2021                                     | 12 Inquished by: | 206 Inquished by: | 257 and or snipment: | Reporting Requirements: |   | 54    | 53   | 52   | SI       |  | Client Sample ID                    |   | Turn-Around-Time (TAT)  | Sampled by Name: C. Gra t  | Samples Collected by (Check One):                | Compliance? Yes       | (If applicable, EMSL will provide)  | mit'r C                 | 9 Contavior (s       | Finite: 732-370 |                   | er In Street Address: 100 From | Contact Name: Juhn | Company Name: | -                             | EMSL ANALYTICAL, INC. | EMSE                                   |
|--|------------------|-------------------|----------------------|-------------------------|---|-------|------|------|----------|--|-------------------------------------|---|---|--|--|-----------------------|---|-------------------------|----------------------|-----------------|-------------------|--------------------------------|--------------------|---------------|-------------------------------|-----------------------|--|
| 111 02/26/2  |                  | 7                 | 6                    | nts:                    |   |       |      |      |          | 1  | Comp                                |   | 0   | +  | ÷  |                       |   | hate                    | ecupie @             | -58             | +                 | nelin'                         | Beaup              | than          |                               |                       |  |
| /2021  |                  |                   |                      |                         |   | ×     | X    | ×    | X        | 1  | Grab                                |   | tandar  |  |  | No.                   |   |                         | e whi                | 58              | 5                 | Sque                           | pre                |               |                               | 1                     |  |
|  |                  |                   |                      | Resu                    | Special Inst  | 18:04 | 7.60 | 7:57 | 4/197:55 |  | Date / Time<br>Collected            |   | Standard Turn-Around-Time:  |  | EMSL   | If Yes, for<br>NPDES? |   | Schools 0               | in tmenco            |                 | 26220             | ars Dr.                        |                    |               |                               |                       |  |
| O ELECTRONIC SIG   | Date/Time:       | Date/Timer        |                      | Results Only            | ructions and/or F                                   | £     | K    | Ł    | Ę        | 0=Other  | W=Water<br>S=Soil<br>A=Air          | Matrix  | I-Time:   | Sampled By Signatur  | CLIENT   |                       |   | of laturan              | 3, Com               |                 |                   | Suit 2                         |                    |               |                               |                       | ] [                                    |
| AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody |                  | 82:11 22          |                      | X Results and QC        | Special Instructions and/or Regulatory Requirements | 2     | 2    | 10   | 2        | 5 Other<br>Describe below in<br>Special Instructions | 1 HCL<br>2 HNO3<br>3 H2SO4<br>4 ICE | Preservative  | 2 Weeks   | gnature: H. J  | Samples Received Chilled?                        | Yes X No              |   | 8                       |                      |                 | Country: JS       | -06                            |                    |               |                               | 0                     | EMS                                    |
| I consent to sign  |                  |                   |                      | QC                      |   | X     | ×    | ×    | ×        |  | est 1:                              | e   | The follo<br>Call lab t   | H-H  | ed Chilled?                                      | Other<br>(Specify)    | ss  | Moris                   |                      | Dil             |                   |                                |                    |               |                               | 122                   | EMSL Order Number / Lab Use Only       |
| ling this Ch   | Received         | Received          | Sample               | R                       | ole Spec  |       | _    | -    | -        | Te   | st 2:                               | List Te   | wing TAT<br>to confirm  |  | 8  | S                     | US State where samples collected:   | t.                      | Emai                 | Phone:          | -                 | Infor<br>Stree                 |                    |               | Billing ID:                   | 6                     | imber / L                              |
| aln of Cust  | ived by:         | ived by:          | ole Condi            | educed [                | (Sample Specifications,                             |       |      |      |          | Te   | st 3:                               | est(s) No   | 's are sub<br>TAT befo  |  | Yes  |                       | where<br>ollected:  |                         | Email(s) for Invoice |                 | City, State, Zip: | Street Address:                | Billing Contact:   | Company Name: | ID:                           | D.                    | ab Use Only                            |
| docume   | CRZ              | J                 | Condition Upon Re    | Reduced Deliverables    | Processing Methods, Limits of Detection, etc.)      |       |      |      |          | Te   | st 4:                               | List Test(s) Needed (Write in test below, then check on sample line;) | The following TAT's are subject to Lab approval.<br>Call lab to confirm TAT before submittal: |  | V No   |                       | 24  |                         | voice:               |                 | 2                 |                                |                    | ne:           |                               | 57                    | 9                                      |
| int by electronic signature t  | 4                |                   | n Receipt:           | _                       | Aethods,  |       | _    | _    |          | Te   | st 5:                               | in test l   | oval.   |  | PERCENT.   | PWS                   | Sta   |                         |                      |                 |                   |                                |                    | Sam           |                               |                       | Custon                                 |
| onature  | 10               |                   |                      | Hzres                   | Limits of   |       |      |      |          | To   | 4.6.                                | below, th   | 1   | And and a second second  | Sample(s) Temperature Upon<br>Receipt (LAB ONLY) | S                     | State of <u>Connecticut</u> (CT) must select project location:<br>Commercial (Taxable) Reside |                         |                      | -               |                   |                                |                    | 0             |                               |                       | Y                                      |
|  | V                | AT                |                      | Hzresults EDD           | Detection   |       |      |      |          | 16:  | st 6:                               | en chec   | 1 Week  |  | Jemper<br>of (LAB                                |                       | Comme   | Pur                     |                      |                 |                   |                                |                    |               |                               |                       |  |
|  |                  | 2                 |                      |                         | 1, etc.)  | -     | -    | -    | -        | Tes  | it 7:                               | k on san  | 4 0   | 1.000  | atureiur   |                       | Commercial (Taxable)  | Purchase Order:<br>22-1 |                      |                 |                   | -                              | đ.                 |               |                               |                       |  |
| in the   | n'urio.          |                   | F                    | Excel                   |   |       |      |      |          | Tes  | it 8:                               | nple line   | 4 Days  |  | on Si vere                                       |                       | st select (<br>xable)   | - 0 3                   |                      |                 |                   |                                |                    |               |                               |                       |  |
| P  | Date/Time        | Date/Time/        |                      | 8                       |   |       |      |      | _        |  |                                     | :   | 3 Days  | The second s   |  |                       | project lo  | 105                     |                      |                 |                   |                                |                    |               | 5                             | PHO                   | 200 Rt. 130 N<br>Cinnaminson,          |
|  | lime 7 .         | imel              | L                    |                         |   |       |      |      |          |  | -                                   |   |   | No. of Samples<br>In Shipment:   |  | State Rep<br>Yes      | ocation:<br>Residential (Non-Taxable)   | 1                       |                      | -               | Co                |                                |                    |               |                               | PHONE: (800) 220-3675 | 200 Rt. 130 N<br>Cinnaminson, NJ 08077 |
| Doop   | 1.1              | C C               |                      | Other (Des              |   |       |      |      |          |  | Comments                            |   | 2 Days  | mples<br>nt: 15  |  | s x                   | I (Non-Ta   |                         |                      |                 | Country:          |                                |                    |               | Chemistry                     | 0) 220-367            | 8077                                   |
| Pane 1 of 2  | A                | 50                |                      | Other (Describe Above)  |   |       |      |      |          |  | lts.                                |   | 1 Day   | Contraction of the local division of the loc |  | Yes Yes No            | xable)  |                         |                      |                 |                   |                                |                    |               | LIVIAL, Envenenisay2個EMSL.com | 0                     |  |

|                                  |   | 0122   | 20 6257   | Cinnai<br>P   |
|----------------------------------|---|--|---|---|
| ecessary If needed for a         | ditional sample inforr<br>structions and/or F   | <sup>nation</sup><br>Regulatory Requiremen   | ts (Sample Specifications, Processing Methods, Limits of Detection  |   |
|                                  | Matrix  | Preservative   | List Test(s) Needed (Write in test below, then checi  | on sample line:)  |
| Grab<br>Date / Time<br>Collected | W=Water<br>S=Soll<br>A=Air<br>SL=Sludge<br>O=Other  | 1 HCL<br>2 HNO3<br>3 H2SO4<br>4 ICE<br>5 Other<br>Describe in<br>Special Instructions  | Test 1:<br>Lea d<br>Test 2:<br>Test 3:<br>Test 4:<br>Test 5:<br>Test 6:   | Test 7:<br>Test 8:  |
| X 4/19 8:05                      | 2   | 2  |   |   |
| × 1 8:10                         | 2   | 2  |   |   |
| X 8:11                           | Ę   | 2  |   |   |
| X 8:14                           | Ł   | 2  |   |   |
| 51:28                            | E   | 2  |   |   |
| X 81.12                          | ٤   | 2  |   |   |
| X X 8:21                         | E   | 2  |   |   |
| X 8:22                           | ٤   | 2  |   |   |
|                                  |   |  | Sample Condition Upon Receipt:  |   |
|                                  | Date/Time:<br>4/16/22   | 1:25   | Received by:  | Date/Time   |
|                                  | Date/Time:  |  | Received by:  | Date/Time   |
|                                  | Grab Date / Time<br>Grab Collected<br>X H/A Story<br>X Still<br>X Still<br>X Still<br>X Still | Image: Special Instructions and/or Special Instructions and/or F   Date / Time Matrix   Grab Date / Time   Date / Time W=Water   Collected S=Soil   A=Air SL=Sludge   O=Other V.   X Yilo   X Yilo | EMSL Order Number / Lab Use Only   DI 2020 0257   Special Instructions and/or Regulatory Requirements (Sample Specifications, Processin<br>Grab   Instructions and/or Regulatory Requirements (Sample Specifications, Processin<br>Collected S=Soil<br>Collected S=Soil<br>Collected S=Soil<br>Collected S=Soil<br>Collected S=Soil<br>Collected S=Soil<br>Collected S=Soil<br>SL=Sludge<br>SL=Sludge<br>Collected S=Soil<br>SL=Sludge<br>SL=Sludge<br>Collected Native<br>Collected S=Soil<br>SL=Sludge<br>SL=Sludge<br>Collected S=Soil<br>SL=Sludge<br>SL=Sludge<br>Collected S=Soil<br>SL=Sludge<br>SL=Sludge<br>Collected S=Soil<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>Collected S=Soil<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=Sludge<br>SL=S | EMSL Order Number / Lab Use Only   ON 220 W257   ON 220 W257   Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Second color, Processing Methods, Limits of Collected Coll |

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Page 2 of 2

| EM   | Controlled                  | Relipbuished hv       | Relin                          | Method o           |           |  | 15 Trip | P         | 20           |   |   |                       | Additiona   | EMSL                  |                                  |
|--|-----------------------------|-----------------------|--------------------------------|--------------------|-----------|--|---------|-----------|--------------|---|---|-----------------------|---|-----------------------|----------------------------------|
| EMSL Analytical, Inc.'s Laboratory Ter   | Document - COC-07 Chamilton | shed hy:              | thad for a l                   | Method of Shipment |           |  | p Blank | 514       | 513          | Client Sample ID  |   |                       | Additional Pages of the Chain of Custody are only necessary if needed for additional sample information | EMSL ANALYTICAL, INC. | EMSL                             |
| boratory   |                             |                       |                                |                    |           |  |         |           |              | Comp  |   |                       | dy are only   |                       |                                  |
| 2021<br>Terms ;  |                             |                       |                                |                    |           |  |         |           | $\times$     | Grab  |   |                       | necessar  |                       |                                  |
| and Condition  |                             |                       |                                |                    |           |  | V 8:33  | V 8:28    | 4/10 8:27    | Date / Time<br>Collected  |   |                       | Y If needed for add   |                       | -                                |
| 3REE TO ELECTRO<br>s are incorporat  | Date/Time:                  | Date/Time:<br>4/15/22 |                                |                    |           |  | 3       | 2         | V            | W=Water<br>S=Soll<br>A=Air<br>SL=Sludge<br>O=Other                                    | Matrix                                  | a actions and/or r    | Ittional sample infor   |                       |                                  |
| AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)<br>ons are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to<br>acknowledgment of all terms and conditions by Customer. |                             | 1:25                  |                                |                    |           |  | 2       | 2         | 2            | 1 HCL<br>2 HNO3<br>3 H2SO4<br>4 ICE<br>5 Other<br>Describe in<br>Special Instructions | Preservative                            | regulatory Requiremen | nation  | 012                   | EMSL Order Number / Lab Use Only |
| king, I consent to<br>Custody by re<br>f all terms an  | R                           | 2                     | S                              |                    |           |  | X       | X         | $\mathbf{X}$ | Test 1:<br>Lead<br>Test 2:  | List Te                                 | its (Sample Sp        |   | 206                   | EMSL Order Number / Lab Use Only |
| aference   | Received by:                | Received by:          | ample Co                       |                    |           |  |         |           |              |   | est(s) N                                | becificatio           |   | 062                   | r/Lab L                          |
| in their i   | y:                          | y:                    | Sample Condition Upon Receipt: |                    | $\square$ |  |         | $\square$ |              | Test 3:   | List Test(s) Needed (Write in           | ons, Proc             |   | 5                     | Ise Only                         |
| Custome  |                             |                       | pon Rec                        |                    |           |  |         |           |              | Test 4:   | (Write in                               | essing M              |   | 1                     |                                  |
| Submis   |                             |                       | eipt:                          |                    |           |  |         |           |              | Test 5:   |   | ethods, I             |   |                       |                                  |
| by electron<br>sion of s   |                             |                       | L                              |                    |           |  |         |           |              |   | elow, th                                | limits of             |   |                       |                                  |
| ic signatur  |                             |                       |                                |                    |           |  |         |           |              | Test 6:   | en chec                                 | Detection             |   |                       |                                  |
| ».)<br>to EMSL   |                             |                       | Г                              |                    | -         |  |         |           | $\neg$       | Test 7:   | test below, then check on sample line:) | 1, etc.)              |   |                       |                                  |
| Analytic   |                             |                       | L                              |                    |           |  |         |           |              | Test 8:   | mple lin                                |                       |   |                       |                                  |
| al, Inc. c   | Date                        | Date                  |                                |                    |           |  |         |           |              |   | e:)                                     |                       |   |                       | 200                              |
| EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.                            | Date/Time                   | Date/Time             |                                |                    |           |  |         |           |              | Comments  |   |                       | EMAIL: EnvChemistry2@EMSL.co  | PHONE: (800) 220-3675 | 200 Rt. 130 N                    |

Page 3 Of

3

Page 2 of 2