The City of Canton

Invitation to Bid

City of Canton, Ohio
Purchasing Department
218 Cleveland Ave. SW, 4th floor
Canton, Ohio 44702

Timken Pl/Clark Ave Connector Project, GP1313, PID 113895/PID 114049
Item/Project

Engineering Department
Responsible Department

2:00:00 PM, 10/29/2021
Bids Due

Bid Proposal Submitted By:

Company Name

Street Address

City **State** **Zip**

Contact Person **Phone No.** **Email Address**

Table of Contents and Bidder's Checklist - Timken Pl/Clark Ave Connector Project, GP1313, PID 113895/PID 114049

Bidder's Checklist: The completed Bid Form shall be accompanied by the following completed documents:

_____ **Pre-Bid Substitution, if any proposed substitutes have been pre-approved.**
_____ **Bid Guaranty and, if applicable Contract Bond**
_____ **Contractor's Qualification Statement**
_____ **Contractor's List of Subcontracted Work Categories**
_____ **A list identifying its DBE subcontractors and participation rates as a percentage of the Contract Price, and if the DBE participation goal has not been met, certification of good faith efforts to meet the DBE participation goal.**
_____ **The Project Labor Agreement (PLA) Letter of Assent (See Appendix A).**
_____ **If this project is funded in whole or part by the Ohio Public Works Commission, then certification of agreement and compliance with certain statements and covenants regarding Bidder's subscription to the State's Equal Employment Opportunity Requirements for State-assisted Construction Contracts.**

The City of Canton

Legal Notice

Sealed bids will be received by the City of Canton (the “City”), as provided in this notice for the Timken Pl/Clark Ave Connector Project, GP1313, PID 113895/PID 114049 Project (the “Project”), Ordinance 52/2021. Contract documents, which include additional details of the Project, are on file and available from the City of Canton’s web site (https://cantonohio.gov/448/Purchasing-Procurement).

Bids shall be enclosed in a sealed envelope addressed to the City of Canton, 218 Cleveland Ave. SW, Purchasing Dept/Fourth Floor, Canton, Ohio 44702 and plainly marked on the outside "Timken Pl/Clark Ave Connector Project, GP1313, PID 113895/PID 114049 PROJECT BID." Bids will be received on or before 2:00:00 PM, local time, 10/29/2021 and will be opened shortly thereafter.

Questions regarding plans and specifications should be addressed in writing to Purchasing Department, at purchasing@cantonohio.gov.

All bids must include a Bid Guaranty, as described in the Instructions to Bidders. Prevailing wage rates apply. All bidders will be required to comply with the City Contract Compliance Program regarding equal employment opportunity. After submission and opening, no bidder may withdraw its bid within 60 days after the opening; the City reserves the right to waive irregularities, reject any or all bids, and conduct necessary investigations to determine bidder responsibility.

Published in The Repository on October 14, 2021 and October 21, 2021

INSTRUCTIONS TO BIDDERS

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A. BIDDER'S PLEDGE AND AGREEMENT

1. Each Bidder acknowledges that this is a public project involving public funds and that the Owner expects and requires that each successful Bidder adhere to the highest ethical and performance standards. Each Bidder by submitting a bid pledges and agrees that (a) it will act at all times with absolute integrity and truthfulness in its dealings with the Owner and the Engineer, (b) it will use its best efforts to cooperate with the Owner and the Engineer and all other Contractors on the Project and at all times will act with professionalism and dignity in its dealings with the Owner, Engineer, and other Contractors, (c) it will assign only competent supervisors and workers to the Project, each of whom is fully qualified to perform the tasks that are assigned to him/her, and (d) it has read, understands and will comply with the terms of the Contract Documents.

B. EXAMINATION OF CONTRACT DOCUMENTS AND SITE CONDITIONS AND RELIANCE UPON TECHNICAL DATA

1. Each Bidder shall have a competent person carefully and diligently review each part of the Contract Documents, including the Divisions of the Specifications and parts of the Drawings that are not directly applicable to the Work on which the Bidder is submitting its bid. By submitting its bid, each Bidder represents and agrees, based upon its careful and diligent review of the Contract Documents, that it is not aware of any conflicts, inconsistencies, errors, or omissions in the Contract Documents for which it has not notified the Owner in writing at least ten (10) days prior to the bid opening. If there are any such conflicts, inconsistencies, errors, or omissions in the Contract Documents, the Bidder (i) will provide the labor, equipment, or materials of the better quality or greater quantity of Work and/or (ii) will comply with the more stringent requirements. The Bidder will not be entitled to any Change Order, additional compensation, or additional time on account of such conditions for any conflicts, inconsistencies, errors, or omissions that would have been discovered by such careful and diligent review, unless it has given prior written notice to the Owner.

2. Each Bidder shall have a competent person carefully and diligently inspect and examine the entire site and the surrounding area, including all parts of the site applicable to the Work for which it is submitting its bid, including location, condition, and layout of the site and the location of utilities, and carefully correlate the results of the inspection with the requirements of the Contract Documents. The Bidder's bid shall include all costs attributable to site and surrounding area conditions that would have been discovered by such careful and diligent inspection and examination of the site and the surrounding area, and the Bidder shall not be entitled to any Change Order, additional compensation, or additional time on account of such conditions.

3. The Bidder may rely upon the general accuracy of any technical data identified in the Owner-Contractor Agreement (e.g., any soils exploration reports, soil boring logs, site survey, or abatement reports) in preparing its bid, but such technical data are not part of the Contract Documents. Except for the limited reliance described in the preceding sentence, Bidder may not, if awarded a contract for the Work, rely upon or make any Claim against the Owner or Engineer, or any of their agents or employees, with respect to any of the following:

   a. the completeness of such reports and drawings for Bidder's purposes, including, but not limited to, any aspects of the means, methods, techniques, sequences, and procedures of construction to be employed by the successful Bidder and safety precautions and programs incident thereto; or

   b. any interpretation by the successful Bidder of or conclusion drawn from any technical data or any such other data, interpretations, opinions, or information.

For example, all interpolations and extrapolations of data performed by the Bidder to estimate locations or quantities of subsurface strata are independent factual assumptions, which Owner does not warrant.

4. Each Bidder will be deemed to have actual knowledge of all information provided or discussed at the pre-bid meeting.

C. OWNER & ENGINEER

1. The Owner is:

The City of Canton
218 Cleveland Avenue SW
Canton, OH 44702
Telephone: 330.489.3245
Fax: 330.489.3499

The Owner's Representative is:

Dan Moeglin

2. The Design Engineer for the Project is:

NA
NA
NA, NA NA

D. PROJECT

1. The Project and Work for the Project consists of all labor, materials, equipment, and services necessary for construction of the project identified as **Timken Pl/Clark Ave Connector Project, GP1313, PID 113895/PID 114049 Project** ("the Project"), all in accordance with the Drawings and Specifications prepared by the Engineer and/or Owner. The Project must be substantially complete by the Date for Substantial Completion set forth in Section Q below.

2. The Mayor **has** determined that a Project Labor Agreement ("PLA") will advance the City's procurement interest in cost, efficiency, and quality while promoting labor-management stability as well as compliance with applicable legal requirements governing safety and health, equal employment opportunity, labor and employment standards, and other related matters. Any such PLA shall be negotiated by the Mayor of the Owner with the East Central Ohio Building and Construction Trades Council and its affiliated local unions, or said Council's successor. The successful Bidder shall comply with and adhere to all of the provisions of any PLA for the Project.

3. A pre-bid conference will be held at **NA on NA** at **NA**.

E. WORK

1. This Project includes **Earthwork, base improvement, roadwork, storm sewer, concrete curb and gutter, signing, pavement markings, and MOT.**, and the like as set forth in the Contract Documents.

2. Alternate No. 1 for this Project is **NA**.

3. Alternate No. 2 for this Project is **NA**.

4. Only one contract will be issued by the Owner for constructing the Project, the General Contract, which will cover all scopes of work necessary to construct the Project.

5. The Contractor awarded the General Contract (General Contractor) will be responsible for the performance and coordination of any and all subcontractors and suppliers either directly or indirectly contracted with the General Contractor.

6. Owner will provide Bidders access to the Project site to conduct such examinations, investigations, explorations, tests, and studies as Bidder deems necessary for submission of a Bid. Bidder shall fill all holes, clean up, and restore the Site to its former condition upon completion of such explorations, investigations, tests, and studies. Bidder shall comply with all applicable laws, regulations and Owner's policies relative to excavation and utility locates. Bidders may contact **Dan Moeglin,** The City of Canton, at **dan.moeglin@cantonohio.gov** or **330-438-6903** if they have any interest in accessing the Project site, independent of any pre-bid meeting.

F. ESTIMATE OF COST

1. The total estimated construction cost for the Base Bid Work for the Project for which bids are being solicited at this time is **$359,184.00.**

   The estimated cost for Alternate 1 - **NA** is: **$ 0.00**.

   The estimated cost for Alternate 2 - **NA** is: **$ 0.00**.

G. CONTRACT DOCUMENTS

The Contract Documents consist of the documents listed in Section 1 of the Owner-Contractor Agreement.

Bidders may view and download copies of the Contract Documents from The City of Canton Purchasing web site at https://cantonohio.gov/448/Purchasing-Procurement, which is the only authorized source of the Contract Documents. The City of Canton's sourcing tool, Vendor Registry, will maintain the Bidder's list and will provide notice and copies of Addenda as issued. It is the responsibility of any person or organization interested in a hard copy of the Contract Documents to pay all costs associated with printing.

Bidders shall use complete sets of Contract Documents in preparing bids. Neither the Owner nor the Design Engineer assumes any responsibility for errors or misinterpretations resulting from the use of incomplete sets of Contract Documents.

The Owner, in making the Contract Documents available on the above terms, does so only for the purpose of obtaining bids on the Work and does not confer a license or grant for any other use.

H. PREPARATION OF BIDS

1. All bids must be submitted on the "Bid Form" furnished with the Contract Documents.

2. All blank spaces shall be filled in, in ink or typewritten, in words and figures, and in figures only where no space is provided for words, and signed by the Bidder. The wording on the Bid Form shall be used without change, alteration, or addition. Any change in the wording or omission of specified accompanying documents may cause the bid to be rejected. If there is an inconsistency or conflict in the Bid, the lowest amount shall control, whether expressed in numbers or words.

3. Bidders shall note receipt of Addenda on the Bid Form. If the Bidder fails to acknowledge receipt of each Addendum, the Bid shall be deemed non-responsive, unless the Bid

amount clearly and unambiguously reflects receipt of the Addendum or the Addendum involves only a matter of form and does not materially affect the price, quantity or quality of the Work to be performed.

4. Each Bidder shall submit **an original** of its bid to the Owner. The Bid Form shall be signed with the name typed or printed below the signature. A Bid shall not be submitted by facsimile transmission or any other electronic means. A Bidder that is a corporation shall sign its bid with the legal name of the corporation followed by the name of the state of incorporation and the legal signature of an officer authorized to bind the corporation to a contract.

5. Each Bid shall be enclosed in a sealed opaque envelope with the Bidder's name and the title of the Project printed in the upper left hand corner and addressed as follows:

   The City of Canton
   ATTN: **Purchasing/Bids**
   218 Cleveland Avenue SW
   Canton, OH 44702

   Bids must be received at the designated location for the bid opening before 2:00:00 PM, local time, on 10/29/2021.

6. **The completed Bid Form shall be accompanied by the following completed documents:**

   a. **Pre-Bid Substitution, if any proposed substitutes have been pre-approved. (See Section K, below.)**

   b. **Bid Guaranty and, if applicable Contract Bond (See Paragraph H.8, below.)**

   c. **Contractor's Qualification Statement (See Paragraph I.4, below.)**

   d. **Contractor's List of Subcontracted Work Categories (See Paragraph I.5, below.)**

   e. **A list identifying its DBE subcontractors and participation rates as a percentage of the Contract Price, and if the DBE participation goal has not been met, certification of good faith efforts to meet the DBE participation goal. (See Section W, below.)**

   f. **The Project Labor Agreement (PLA) Letter of Assent (See Appendix A).**

   g. **If this project is funded in whole or part by the Ohio Public Works Commission, then certification of agreement and compliance with certain statements and covenants regarding Bidder's subscription to the State's Equal Employment Opportunity Requirements for State-assisted Construction Contracts (See Section Y, below.)**

7. The Bidder shall take the following precautions in preparing its bid:

   a. Sign the bid and check to ensure all blank spaces have been filled in with requested information and that the specified accompanying documents (listed in Paragraph H.6 above) have been included in a sealed opaque envelope addressed as described in Paragraph H.5 above.

b. When the Bid Form provides for quoting either an addition or deduction for an Alternate item, indicate whether the sum named is an addition or deduction. If it is not indicated, it will be conclusively presumed that the amount is a deduction.

c. When the Bid Form provides for quoting a unit price, the Bidder should quote the unit price as set forth in the Contract Documents as described in Paragraph M.1 below.

d. When applicable, make sure that the Bid Guaranty is properly executed and signed by:

1) The Bidder
2) The Surety or Sureties

e. Make sure that the amount of the Bid Guaranty (if the Bid Guaranty is in the form of a certified check, letter of credit, or cashier's check) is for a specific sum in an amount as instructed in Paragraph H.8.a below. If the Bid Guaranty is in the form of the Bid Guaranty and Contract Bond, the amount may be left blank; if an amount is inserted, it must equal the total of the base bid and all add alternates included. If inserted, then the failure to state an amount equal to the total of the base bid and all add alternates shall make the bid non-responsive if the Owner selects alternates not included in the amount.

f. Make sure that the appropriate bid package and scope of work is inserted in the correct space on the Bid Guaranty and Contract Bond Form. Failure to include work covered by the bid submitted may make the bid non-responsive.

8. Bonds and Guarantees

a. Bid Guaranty: Bidder shall furnish a Bid Guaranty, as prescribed in Sections 153.54, 153.57, and 153.571 of the Ohio Revised Code, in the form of either: (1) a bond for the full amount of the bid in the form of the Bid Guaranty and Contract Bond included in the Contract Documents; or (2) a certified check, cashier's check, or irrevocable letter of credit in a form satisfactory to the Owner in an amount equal to 10% of the bid. Bid amount shall be the total of all sums bid, including all add alternatives, but excluding all deduct alternatives. **NOTE: AIA or EJCDC Bid Bond forms are not acceptable.**

b. Contract Bond: The successful Bidder, who, as a Bid Guaranty, submits a certified check, cashier's check, or irrevocable letter of credit in an amount equal to 10% of the bid, shall furnish a Contract Bond in the form included in the Contract Documents in an amount equal to 100% of the Contract Sum. **NOTE: AIA or EJCDC Bond forms are not acceptable.**

c. The bond must be issued by a surety company authorized by the Ohio Department of Insurance to transact business in the State of Ohio and acceptable to the Owner. The bond must be issued by a surety capable of demonstrating a record of competent underwriting, efficient management, adequate reserves, and sound investments. These criteria will be deemed to be met if the surety currently has an A.M. Best Company Policyholders Rating of "A-" or better and has or exceeds the

Best Financial Size Category of Class VI. Other sureties may be acceptable to the Owner, in its sole discretion.

d. All bonds shall be signed by an authorized agent of an acceptable surety and by the Bidder.

e. Surety bonds shall be supported by credentials showing the Power of Attorney of the agent, a certificate showing the legal right of the Surety Company to do business in the State of Ohio, and a financial statement of the Surety.

f. The Bid Guaranty, as applicable, shall be in the name of or payable to the order of the Owner.

g. The name and address of the Surety and the name and address of the Surety's Agent must be typed or printed on each bond.

9. Permits

a. Owner has obtained, or will obtain the following permits for the Project, as applicable:

NA

b. Contractor shall secure and pay for all other permits necessary to complete the Project. Owner shall pay all charges of utility owners for connections for providing permanent service to the Work.

I. METHOD OF AWARD

1. All bids shall remain open for acceptance for sixty (60) days following the day of the bid opening, but the Owner may, in its sole discretion, release any bid and return the Bid Guaranty prior to that date. The Bid Guaranty shall be subject to forfeiture, as provided in the Ohio Revised Code, if a bid is withdrawn during the period when bids are being held.

2. The Owner reserves the right to reject any, part of any, or all bids and to waive any informalities and irregularities. The Bidder expressly acknowledges this right of the Owner to reject any or all bids or to reject any incomplete or irregular bid. Bidders must furnish all information requested on the Bid Form. Failure to do so may result in disqualification of the bid.

3. Determination of the Lowest and Best Bid. Subject to the right of the Owner to reject any or all bids, pursuant to the Codified Ordinances of Canton Chapters 105, 182, and 507, the Owner will award the Contract for the Work to the bidder submitting the lowest and best bid, taking into consideration accepted alternates. In evaluating bids, the Owner will consider the qualifications of the Bidders, whether or not the bids comply with the prescribed requirements, and alternates and unit prices, if requested, on the Bid Form. The Owner may also consider the qualifications and experience of subcontractors and suppliers. The Owner may conduct such investigations as are deemed necessary to establish the qualifications and financial ability of the Bidder and its subcontractors and suppliers. The factors the Owner may consider in determining which bid is the lowest and best include the factors set forth below, including the Additional Criteria. Depending upon the type of work, the Owner, in its discretion, may also consider other essential factors, as the Owner may determine and as are included in the Specifications. The Owner, in its discretion, may consider and give such weight to these criteria as it deems appropriate. The Owner, in its discretion, reserves the right to request additional

information and documentation relating to these criteria from Bidders after the bid opening.

a. Work to be subcontracted. The Bidder must identify all work to be subcontracted. See paragraph I.5 below. All subcontractors are subject to the approval of the Owner based on the criteria set forth in this Section I.

b. The Bidder's work history. The Bidder should have a record of consistent customer satisfaction and of consistent completion of projects, including projects that are comparable to or larger and more complex than the Owner's Project, on time and in accordance with the applicable Contract Documents, and based upon the Bidder's claims history. If the Bidder's management operates or has operated another construction company, the Owner may consider the work history of that company in determining whether the Bidder submitted the lowest and best bid.

The Owner will consider the Bidder's prior experience on other projects of similar scope and/or complexity including prior projects with the Owner and/or Design Professional, including the Bidder's demonstrated ability to complete its work on these projects in accordance with the Contract Documents and on time, and will also consider its ability and capacity to perform a substantial portion of the project with its own forces and its ability to work with the Owner and Engineer as a willing, cooperative, and successful team member. Bringing overstated claims, an excessive number of claims, acting uncooperatively, and filing lawsuits against project owners and/or their design professionals on prior projects of similar scope and/or complexity will be deemed evidence of a Bidder's inability to work with the Owner and Engineer as a willing, cooperative, and successful team member.

The Bidder authorizes the Owner and its representatives to contact the owners and design professionals (and construction managers, if applicable) on projects on which the Bidder has worked and authorizes and requests such owners and design professionals (and construction managers) to provide the Owner with a candid evaluation of the Bidder's performance. By submitting its bid, the Bidder agrees that if it or any person, directly or indirectly, on its behalf or for its benefit brings an action against any of such owners or design professionals (or construction managers) or the employees of any of them as a result of or related to such candid evaluation, the Bidder will indemnify and hold harmless such owners, design professionals (and construction managers) and the employees of any of them from any claims, whether or not proven, that are part of or are related to such action and from all legal fees and expenses incurred by any of them arising out of or related to such legal action. This obligation is expressly intended for the benefit of such owners, design professionals (and construction managers), and the employees of each of them.

c. The Bidder's prior history regarding timeliness of performance, quality of work, the Bidder's history of filing claims and having claims filed against it, extension requests, fines and penalties imposed and payments thereof, and contract defaults, with explanations.

d. The Bidder's compliance with federal, state, and local laws, rules, and regulations, including but not limited to the Occupational Safety and Health Act, Ohio Prevailing Wage laws, Davis Bacon, and Ohio ethics laws.

e. The Bidder's prior experience with similar work on comparable or more complex projects.

f. The number of years the Bidder has been actively engaged as a contractor in the construction industry.

g. The Bidder's recent experience record in the construction industry, including the original contract price for each construction job undertaken by the bidder, the amount of any change orders or cost overruns on each job, the reasons for the change orders or cost overruns, and the bidder's record for complying with and meeting completion deadlines on construction projects.

h. A public entities' determination, within the previous five years, that the Bidder was not a responsible bidder, the reasons given by the public entity, and the Bidder's explanation thereof.

i. The Bidder's financial ability to complete the Contract successfully and on time without resort to its Surety.

j. Financial responsibility demonstrated by the Bidder and whether Bidder possesses adequate resources and availability of credit, the means and ability to procure insurance and acceptable performance bonds required for the Project and whether any claims have been made against performance bonds secured by the bidder on other construction projects.

k. Any suspension or revocations of any professional license of any director, officer, owner, or managerial employees of the Bidder, to the extent that any work to be performed on this Project is within the field of such licensed profession.

l. The Bidder's equipment and facilities.

m. The size and experience of the Bidder's work force and the Bidder's ability to complete the Contract successfully and on time.

n. The experience and the continuity of the Bidder's work force including the project manager and project superintendent's tenure with the Bidder.

o. The Bidder's participation in a drug-free workplace program acceptable to the Owner, and the Bidder's record for both resolved and unresolved findings of the Auditor of State for recovery as defined in Section 9.24 of the Ohio Revised Code.

p. The Owner's prior experience with the Bidder's surety.

q. The Bidder's interest in the Project as evidenced by its attendance at any pre-bid meetings or conferences for bidders.

r. The adequacy, in numbers and experience, of the Bidders' work force to complete the Contract successfully and on time.

s. The foregoing information with respect to each of the Subcontractors and Suppliers that the Bidder intends to use on the Project.

4. Qualifications Statement. Each Bidder will submit with its bid a completed Contractor Qualifications Statement, which is included with the Contract Documents, and thereafter provide the Owner promptly with such additional information as the Owner may request regarding the Bidder's qualifications. A Bidder shall submit any requested additional information within three (3) business days of the date on the request.

5. List of Subcontracted Work Categories. Each Bidder will submit with its bid a completed list of Subcontracted Work Categories, which is included with the Contract Documents, and thereafter provide the Owner promptly with such additional information as the Owner may request regarding the Bidder's qualifications. A Bidder shall submit any requested information within three (3) business days of the date on the request.

6. Additional Criteria for Determining Lowest and Best Bid. Pursuant to the Codified Ordinances of the City of Canton, Chapter 105, the Owner, in its discretion, may consider any or all of the Additional Criteria below in determining which bid is lowest and best.

   a. Any OSHA violations within the previous three years, as well as all notices of OSHA citations filed against the Bidder in the same three year period, together with a description and explanation of remediation or other steps taken regarding such violations and notices of violation.

   b. Any violations within the previous five years pertaining to unlawful intimidation or discrimination against any employee by reason of race, creed, color, disability, gender, or national origin, and/or violation of any employee's civil or labor rights or equal employment opportunities.

   c. Any litigation in which the Bidder has been named as a defendant or third party defendant in an action involving a claim for personal injury or wrongful death arising from performance of work related to any project in which it has been engaged within the previous five years. Bidders shall provide copies of pleadings.

   d. Allegations of violations of the prevailing wage law and any other state or federal labor law, including, but not limited to, child labor violations, failure to pay wages, or unemployment insurance tax delinquencies or unfair labor practices within the past five years.

   e. Violations of the workers compensation law.

   f. Any criminal convictions or criminal indictments, involving the Bidder, its officers, directors, owners, and/or managers within the past five years.

   g. Any violation within the past five years or pending charges concerning federal, state, or municipal environmental and/or health laws, codes, rules, and/or regulations.

   h. Documentation that the Bidder provides health insurance and pension benefits to its employees.

   i. Whether the Bidder participates in a bona fide apprenticeship program that is approved by the Ohio State Apprenticeship Council and the United States Department of Labor.

   j. Whether the Bidder has adopted and implemented a comprehensive drug and alcohol testing program for its employees.

   k. Whether the Bidder's employees are OSHA-10 and/or OSHA-30 certified.

   l. The Bidder's commitment to comply with the Owner's Contract Compliance Program regarding equal employment opportunity. Each Bidder shall file contract employment reports with the Owner's contracting agency or as may be directed by the Owner or its representative. Such contract employment reports shall include such information as to the employment practices, policies, programs, and statistics of the Bidder and shall be in such form as the Owner may prescribe.

m. The foregoing information with respect to each of the Subcontractors and Suppliers that the Bidder intends to use on the Project.

7. The failure to submit information that Owner has the right to receive under these Instructions to Bidders on a timely basis may result in the determination that the Bidder has not submitted the lowest and best bid.

8. By submitting its bid, the Bidder agrees that the Owner's determination of which bidder is the lowest and best bidder shall be final and conclusive, and that if the Bidder or any person on its behalf challenges such determination in any legal proceeding, the Bidder will indemnify and hold the Owner and its employees and agents harmless from any claims included or related to such legal proceeding, and from legal fees and expenses incurred by the Owner, its employees, or agents that arise out of or are related to such challenge.

9. After bid opening, within three (3) business days of a request made by the Owner, the apparent low Bidder and any other Bidder so requested by the Owner must submit the following:

For all subcontracts with an estimated value of at least $50,000, a list of all Subcontractors that the Bidder will use to construct the Project, as well as an indication of whether or not the Bidder has ever worked with a proposed Subcontractor before, including the following information for the <u>three</u> most recent projects on which the Bidder and each Subcontractor have worked together:

i. Project Owner

ii. Project Name

iii. Subcontract Scope

iv. Subcontract Value

v. Owner's contact name and phone number.

If Bidder and a proposed Subcontractor have not worked together on at least three projects in the past five years, Bidder must submit the information set forth above for the three most recent similar projects to the Project that a proposed Subcontractor has worked on.

The above Subcontractor information, as well as the criteria set forth in Paragraph I.3 herein, as it pertains to each Subcontractor may be used in the Owner's determination of the lowest and best bid.

Once a Bidder identifies its proposed Subcontractors as set forth in this Paragraph I.9, the list shall not be changed unless written approval or direction for the change is made by Owner.

10. <u>Additional Post-Bid Submittals</u>

a) <u>Affidavit as to Personal Property Taxes</u>. The successful Bidder shall submit, prior to the time of the entry into the Contract, an affidavit in the form required by Section 5719.042, Ohio Revised Code, regarding the status of the Bidder's personal property taxes. A copy of the affidavit form is included with the Contract Documents.

11. The Owner reserves the right to disqualify bids, before or after opening, upon evidence of collusion with intent to defraud or other illegal practices on the part of the Bidder.

12. Award of Contract. The award of the Contract will only be made pursuant to approval of the City's Board of Control.

J. EXECUTION OF CONTRACT

1. Within the time designated by the Owner after award of the Contract, the successful Bidder shall execute and deliver to the Owner the required number of copies of the Owner-Contractor Agreement, in the form included in the Contract Documents, and all accompanying documents requested, including, but not limited to, a Contract Bond (if applicable), insurance certificates, and a valid Workers' Compensation Certificate. The successful Bidder shall have no property interest or rights under the Owner-Contractor Agreement until the Agreement is executed by the Owner.

K. SUBSTITUTIONS/NON-SPECIFIED PRODUCTS

1. Certain brands of material or apparatus may be specified. Should this be the case, each bid will be based on these brands, which may be referred to in the Contract Documents as Standards. The use of another brand (referred to as a substitution or proposed equal in the Contract Documents, when a bidder or the contractor seeks to have a different brand of material or apparatus than that specified approved by the Owner of use in the Project) may be requested as provided herein. Substitutions, however, will not be considered in determining the lowest and best bid.

2. The products specified in the Contract Documents establish a standard of required function, dimension, appearance, and quality.

3. Bidders wishing to obtain approval to bid non-specified products shall submit written requests to the Owner a minimum of seven (7) working days before the bid date and hour. To facilitate the submission of requests, a Substitution Form is included in the Contract Documents. The Bidder shall include the name of the material or equipment for which it is to be substituted and a complete description of the proposed substitution, including the name of the proposed manufacturer and/or product and a complete description of the product including the manufacturer's name and model number or system proposed, drawings, product literature, performance and test data, color selections or limitations, and any other information necessary for evaluation. Include a statement including any changes in other materials, equipment, or other work that would be required if the proposed product is incorporated in the work. The burden of proof of the merit of the proposed product is on the proposer. The Owner's decision on approval of a proposed product will be final.

   The following will be cause for rejection of a proposed substitution:

   a. Requests submitted by subcontractors, material suppliers, and individuals other than Bidders;

   b. Requests submitted without adequate documentation;

   c. Requests received after the specified cut-off date;

   d. Requests, which in the sole discretion of the Owner, do not offer a sufficient benefit to the Project.

4. When the Owner approves a product submission before receipt of bids, the approval will be included in an Addendum, and Bidders may include the pricing of this product in their bid. Bidders shall not rely on approvals made in any other manner.

5. In proposing a non-specified product or a substitution, the Bidder represents and warrants that each proposed product will not result in any changes to the Project, including changes to the Work or other contractors, or any decrease in the performance of any equipment or systems to be installed in the Project and agrees to pay any additional costs incurred by the Owner and the Owner's consultants as a result of a non-specified or substitute product that is accepted.

6. If an addendum is issued approving a substitution for a specified Standard, any Bidder proposed to use said substitution must indicate so with its Bid, using the form provided.

7. Following the award of the Contract, there shall be no substitution for specified products, except pursuant to a Change Order. The Owner in its sole discretion may decline to consider a substitution for a Change Order.

8. The Owner reserves the right to value engineer any item within the specifications if it is deemed to be in the best interest of the Owner.

L. ALTERNATES

1. The Owner may request bids on alternates. At the time of awarding the Contract, the Owner will select or reject alternates as it determines is in its best interest. A Bidder's failure to include on its Bid Form the cost of an alternate selected by the Owner and applicable to the Bidder's work shall render the bid non-responsive and be grounds for the rejection of the bid. Otherwise, the failure to include the cost of an alternate will not be deemed material.

2. The Bidder acknowledges that although there is an estimate for the cost of the Project, the market conditions may and frequently do result in the estimate being different from the sum of the bids received, either higher or lower. The Bidder understands that the Owner may include alternates, which may include deduct alternates as well as add alternates, to give it flexibility to build the Project with the funds available. The Bidder further understands and acknowledges that use of add and deduct alternates is a long held customary practice in the construction industry in the State of Ohio. The Bidder also acknowledges that the Owner will not make a decision about the alternates on which to base the award of contracts until the bids are received, and the Owner can compare its available funds with the base bids and the cost or savings from selecting different alternates. The Bidder understands that the award to the Bidder submitting the lowest and best bid will be based on the base bid plus selected alternates, and may result in an award to a Bidder other than the Bidder that submitted the lowest base bid.

M. UNIT PRICES

1. Where unit prices are requested in the Bid Form the Bidder should quote a unit price. Unless otherwise expressly provided in the Contract Documents, such unit prices shall include all labor, materials, and services necessary for the timely and proper installation of the item for which the unit prices are requested. The unit prices quoted in the bid shall be the basis for any Change Orders entered into under the Owner-Contractor Agreement, unless the Owner determines that the use of such unit prices will cause substantial inequity to either the Contractor or the Owner.

N. ADDENDA

1. All questions should be submitted in writing at least five (5) business days prior to the bid opening. **This is 10/22/2021, 2:00:00 PM.** The Owner reserves the right to issue Addenda changing, altering, or supplementing the Contract Documents prior to the time set for receiving bids. The Owner will issue the Addenda to clarify bidders' questions and/or to change, alter, or supplement the Contract Documents..

2. Any explanation, interpretation, correction, or modification of the Contract Documents will be issued in writing in the form of an Addendum, which shall be the only means considered binding; explanations, interpretations, etc., made by any other means shall NOT be legally binding. All Addenda shall become a part of the Contract Documents.

3. All Addenda will be issued, except as hereafter provided, via the current City bid tool at least seventy-two (72) hours prior to the published time for the opening of bids, excluding Saturdays, Sundays, and legal holidays. If any Addendum is issued within such seventy-two (72) hour period, then the time for opening of bids shall be extended one (1) week with no further advertising of bids required.

4. Copies of each Addendum will be posted via the Owner's current bid tool and it is the responsibility of the bidder or any other interested party to check the bid tool for any updates or addenda. Receipt of Addenda shall be indicated by Bidders in the space provided on the Bid Form. Bidders are responsible for acquiring issued Addenda in time to incorporate them into their bid. Bidders should check the Owner's bid tool prior to the bid opening to verify the number of Addenda issued.

5. Each Bidder shall carefully read and review the Contract Documents and immediately bring to the attention of the Owner any error, omission, inconsistency, or ambiguity therein.

6. If a Bidder fails to indicate receipt of all Addenda through the last Addendum issued by the Owner on its Bid Form, the bid of such Bidder will be deemed to be responsive only if:

   a. The bid received clearly indicates that the Bidder received the Addendum, such as where the Addendum added another item to be bid upon and the Bidder submitted a bid on that item; or

   b. The Addendum involves only a matter of form or is one which has either no effect or has merely a trivial or negligible effect on price, quantity, quality, or delivery of the item bid upon.

O. INTERPRETATION

1. If a Bidder contemplating submitting a bid for the proposed Project is in doubt as to the true meaning of any part of the Contract Documents, it may submit a written request for an interpretation thereof to the Owner at purchasing@cantonohio.gov. Requests received fewer than 5 days prior to bid opening may not be answered. Any interpretation of the proposed documents will be made by Addendum only and will be made available by the City's web tool. The Owner will not be responsible for any other explanation or interpretation of the proposed documents.

2. In interpreting the Contract Documents, words describing materials that have a well-known technical or trade meaning, unless otherwise specifically defined in the Contract Documents, shall be construed in accordance with the well-known meaning recognized by the trade.

3. Bidders are responsible for notifying the Owner in a timely manner of any ambiguities, inconsistencies, errors, or omissions in the Contract Documents. The Bidder shall not, at any time after the execution of the Contract, be compensated for a claim alleging insufficient data, incomplete Contract Documents, or incorrectly assumed conditions regarding the nature or character of the Work, if no request was made by the Bidder prior to the bid opening.

P. STATE SALES AND USE TAXES

1. The Owner is a political subdivision of the State of Ohio and is exempt from taxation under the Ohio Sales Tax and Use Tax Laws. Building materials that the successful Bidder purchases for incorporation into the Project will be exempt from state sales and use taxes if the successful Bidder provides a properly completed Ohio Department of Taxation Construction Contract Exemption Certificate to the vendors or suppliers when the materials are acquired. The Owner will execute properly completed certificates on request.

Q. DATE FOR SUBSTANTIAL COMPLETION/DATE FOR FINAL COMPLETION/LIQUIDATED DAMAGES

1. Dates for Substantial Completion. The Contract Time shall run from the date of the Notice to Proceed or if there is no Notice to Proceed from the Effective Date of the Owner-Contractor Agreement. The Date for Substantial Completion and the Contract Time may be extended only by Change Order. **By submitting its Bid, each Bidder agrees that the period for performing its Work is reasonable.**

   a. Date for Overall Project Substantial Completion. The successful Bidder shall have all of its Work on the Project Substantially Complete (as Substantial Completion is defined in the Contract Documents) by the following date as applicable to the Bidder's scope of work.

      Date for Substantial Completion (aka Contract Time) expressed as calendar days from Notice to Proceed:

      210 calendar days

2. Liquidated Damages.

   a. Overall Project Substantial Completion. If the successful Bidder does not have its Work Substantially Complete by its Date for Substantial Completion or Finally Complete within thirty (30) calendar days of achieving Substantial Completion, whichever may be applicable, the successful Bidder shall pay the Owner and the Owner may set off from amounts otherwise due the successful Bidder Liquidated Damages. The daily amounts of Liquidated Damages for Overall Project Substantial Completion are set forth in the tables included in the Owner-Contractor Agreement. The total amount of Liquidated Damages will be calculated based on the total number of calendar days beyond the Date for Substantial Completion that the Bidder's Work is not Substantially Complete or to the extent that its Work is not Finally Complete more than thirty (30) calendar days after the Substantial Completion of its Work, i.e., number of late days times the per diem rate(s) for Liquidated Damages in the tables.

3. The Bidder acknowledges and agrees, by submitting its bid for the Work and entering into a Contract with the Owner, that such amounts of Liquidated Damages represent a reasonable estimate of the actual damages for loss of or interference with the intended use of the Project that the Owner would incur if the Bidder's Work is not Substantially

Complete by its Date for Substantial Completion and/or not Finally Complete by thirty (30) days of the Date of Substantial Completion. The Bidder further acknowledges, agrees and understands that it may seek an extension of the Contract Time (and its Date for Substantial Completion) to avoid or reduce Liquidated Damages by properly following the Claim procedures in the Contract Documents.

R. OWNER'S RIGHT TO WAIVE DEFECTS AND IRREGULARITIES

1. The Owner reserves the right to waive any and all irregularities provided that the defects and irregularities do not affect the amount of the bid in any material respect or otherwise give the Bidder a competitive advantage.

S. MODIFICATION/WITHDRAWAL OF BIDS

1. Modification. A Bidder may modify its bid by written communication to the Owner at any time prior to the scheduled closing time for receipt of bids, provided such written communication is received by Owner prior to the bid deadline. The written communication shall not reveal the bid price, but should provide the addition or subtraction or other modification so that the final prices or terms will not be known until the sealed bid is opened. If the Bidder's written instructions with the change in bid reveal the bid amount in any way prior to the bid opening, the bid may be rejected as non-responsive.

2. Withdrawal Prior to Bid Deadline. A Bidder may withdraw its bid at any time for any reason prior to the bid deadline for the opening of bids established in the Legal Notice. The request to withdraw shall be made in writing to and received by the Owner prior to the time of the bid opening.

3. Withdrawal after Bid Deadline.

   a. All bids shall remain valid and open for acceptance for a period of at least 60 days after the bid opening; provided, however, that a Bidder may withdraw its bid from consideration after the bid deadline when all of the following apply:

      (1) the price bid was substantially lower than the other bids;

      (2) the reason for the bid being substantially lower was a clerical mistake, rather than a mistake in judgment, and was due to an unintentional and substantial error in arithmetic or an unintentional omission of a substantial quantity of work, labor, or material;

      (3) the bid was submitted in good faith; and

      (4) the Bidder provides written notice to the Owner within two (2) business days after the bid opening for which the right to withdraw is claimed.

   b. No bid may be withdrawn under this provision if the result would be the awarding of the contract on another bid for the bid package from which the Bidder is withdrawing its bid to the same Bidder.

   c. If a bid is withdrawn under this provision, the Owner may award the Contract to another Bidder determined by the Owner to be the lowest and best bidder or the Owner may reject all bids and advertise for other bids. In the event the Owner advertises for other bids, the withdrawing Bidder shall pay the costs incurred in connection with the rebidding by the Owner, including the cost of printing new Contract Documents, required advertising, and printing and mailing notices to

prospective bidders, if the Owner finds that such costs would not have been incurred but for such withdrawal.

T. COMPLIANCE WITH APPLICABLE LAWS

1. By submitting a bid for Work on the Project, the Bidder acknowledges that it is in compliance with applicable federal, state, and local laws and regulations, including, but not limited to, the following:

   a. Equal Employment Opportunity/Nondiscrimination. The Bidder agrees that if it is awarded a contract that in the hiring of employees for performance of work under the contract or any subcontract, neither it nor any subcontractor, or any person acting on its behalf or its subcontractor's behalf, by reason of race, creed, sex, disability as defined in Section 4112.01 of the Ohio Revised Code, or color, shall discriminate against any citizen of the state in the employment of labor or workers who are qualified and available to perform work to which the employment relates. The Bidder further agrees that neither it nor any subcontractor or any person on its behalf or on behalf of any subcontractor, in any manner, shall discriminate against or intimidate any employees hired for the performance of the work under the contract on account of race, creed, sex, disability as defined in Section 4112.01 of the Ohio Revised Code, or color.

   b. Ethics Laws. The Bidder represents that it is familiar with all applicable ethics law requirements, including without limitation Sections 102.04 and 3517.13 of the Ohio Revised Code, and certifies that it is in compliance with such requirements.

U. FINDINGS FOR RECOVERY

1. By submitting its bid, each Bidder certifies for reliance of the Owner that it has no unresolved finding for recovery against it issued by the Auditor of the State of Ohio on or after January 1, 2001, except as permitted by Section 9.24 (F) of the Ohio Revised Code.

V. PREVAILING WAGES

1. The Project is a "Construction" project as defined in Section 4115.03 of the Ohio Revised Code. If the Project is defined as such as "Construction" project, the successful Bidder and all of its subcontractors, regardless of tier, will strictly comply with its obligation to pay a rate of wages on the Project not less than the rate of wages fixed for this Project under Section 4115.04 of the Ohio Revised Code. Additionally, the successful Bidder will comply with all other provisions of Chapter 4115 of the Ohio Revised Code.

W. DBE PARTICIPATION GOALS

1. Owner has established the following Disadvantaged Business Enterprise ("DBE") participation goal for the Project as a percentage of the Contract Price:

   8%

2. Any Minority Business Enterprise ("MBE") or Woman-Owned Business Enterprise ("WBE") proposed to count towards the DBE participation goal must first be certified at bid time as an MBE or WBE under the Ohio Department of Administrative Services MBE Cross Certification Program (which includes MBEs and WBEs certified by the City of Canton), or certified as a DBE under Ohio's Unified Certification Program administered by the Ohio Department of Transportation.

3. Documentation of DBE Participation. Each Bidder must submit with its bid a list identifying its DBE subcontractors and participation rates as a percentage of the Contract Price.

4. Certification of Good Faith Efforts. If a Bidder has not met the DBE participation goal, it must attach to its bid, a narrative (which may include exhibits) demonstrating the good faith efforts made by the Bidder to secure DBE participation in the Project. Good faith efforts include:

   - Conducting outreach and recruiting activities;
   - Informing DBEs of the opportunity to participate in the Project at least 30 calendar days before the bid closes;
   - Considering subcontracting with a consortium of DBEs; and
   - Using the services and assistance of the Small Business Administration and Minority Development Agency of the U.S. Department of Commerce.

   Owner, in its sole discretion, will be the sole evaluator of whether any particular Bidders' efforts sufficiently demonstrate good faith efforts for securing DBE participation.

5. Challenges to Owner's Discretion. If any Bidder directly challenges, or indirectly challenges through contribution of money or other resources to a third party, Owner's discretion in determining any Bidder's compliance with the DBE goal stated in these Instructions to Bidders, or good faith efforts pertaining to same, that Bidder agrees to indemnify Owner for all claims, costs, losses and damages, including attorney and consultant fees, arising out of such challenge, should there be an adjudication by a court of competent jurisdiction that the Owner did not abuse its discretion in making its determination.

6. Failure to Comply. If a Bidder is awarded a contract for the Project, and later fails to fulfill its stated DBE participation goals, that Bidder agrees to indemnify Owner for all claims, costs, losses and damages, including attorney and consultant fees, arising out of such failure. That Bidder also agrees to cooperate with all reasonable requests to determine actual DBE participation, including but not limited to certifying actual participation and providing documentation in support of same.

X. OTHER LOCAL ORDINANCE REQUIREMENTS

1. Each Bidder, by the act of submitting its bid agrees to withhold all City income taxes due or payable under Chapter 182 of the Codified Ordinances of the City of Canton for wages, salaries, fees, and commissions paid to its employees and further agrees that any of its subcontractors shall be required to agree to withhold any such City income taxes due for services performed under this Agreement. Bidder agrees with the Owner regarding the manner of withholding of City income taxes as provided in Section 718.011(F) of the Ohio Revised Code. Municipal income tax withholding provisions of Section 718.011(B)(1) and 718.011(D) of the Ohio Revised Code shall not apply to qualifying wages paid to employees for work done or services performed or rendered inside the City or on City property. Each Bidder agrees to withhold income tax for the City from employees' qualifying wages earned inside the City or on City property, beginning with the first day of work done or services performed or rendered inside the City.

2. Each Bidder, by the act of submitting its bid agrees that all steel necessary in the construction of the Work performed under the Agreement shall be steel that is produced in the United States unless a specific product which is required is not produced by manufacturers in the United States in which event this prohibition does not apply.

3. Each Bidder, by the act of submitting its bid agrees that all materials used in the construction covered by the Agreement shall be purchased in the Canton area except such materials which are unavailable in the Canton area.

4. Chapter 105.12 – Local Bidder Preference.

a. The Board of Control, in determining the lowest and best bidder in the award of contracts to which this section is applicable, is authorized to award contracts to local bidders as hereinafter defined, whose bid is not more than five percent (5%) higher, subject to a maximum amount of twenty thousand dollars ($20,000.00), than the lowest dollar bid submitted by non-local bidders. The Board of Control's decision in making such an award shall be final.

b. For purposes of this section, "local bidder" means an individual or business entity which at the time of the award of the contract has a headquarters, division, sales office, sales outlet, manufacturing facility, or similar significant business-related location in Stark County, Ohio.

c. All contract specifications and/or bid documents that are distributed by Canton for the purpose of soliciting bids for goods and/or services shall contain the following notice:

Prospective bidders will take notice that the City of Canton, in determining the lowest and best bidder in the award of this contract, may award a local bidder preference to any qualified bidder pursuant to Section 105.12 of the Codified Ordinances of the City of Canton. The determination of whether a bidder qualifies for the local preference shall be made by Board of Control. The Board's decision shall be final. A copy of Section 105.12 is attached.

d. This section shall be applicable to all contracts for equipment, goods, machinery, materials, supplies, vehicles and/or services, which are purchased, leased and/or constructed at a cost in excess of fifty thousand dollars ($50,000.00) and which require bidding pursuant to Ohio R.C. 735.05 through 735.09 and Ohio R.C. 737.03. (Ord. 115-2018. Passed 5-14-18.)

5. Each Bidder, by the act of submitting its bid agrees as follows during the performance of the Agreement:

a. The Contractor shall not discriminate against any employee or applicant for employment because of race, age, handicap, religion, color, sex, national origin, sexual orientation, or gender identity. The Contractor shall take affirmative action to insure that applicants are employed and that employees are treated during employment without regard to race, religion, color, sex, national origin, military status, sexual orientation, or gender identity. As used herein, the word "treated" shall mean and include without limitation the following: recruited, whether by advertising or other means; compensation, whether in the form of rates or pay or other forms of compensation; selected for training, including apprenticeship; promoted; demoted; upgraded; downgraded; transferred; laid off; and terminated. The Contractor agrees to and shall post in conspicuous places available to employees and applicants for employment notices to be provided by the contracting officers setting forth the provisions of this nondiscrimination clause.

b. The Contractor shall, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, state that all qualified applicants will receive consideration for employment without regard to race, age, handicap, religion, color, sex, national origin, military status, sexual orientation, or gender identity.

c. The Contractor shall send to each labor union or representative of workers, with which he has a collective bargaining agreement or other contract or understanding, a notice advising the labor union or workers' representative of the Contractor's commitments under the equal opportunity clause of the Owner; and it shall post copies of the notice in conspicuous places available to employees and applicants for employment.

d. The Contractor shall submit in writing to the Owner its affirmative action plan, and each subcontractor and supplier of equipment or supplies shall submit to the Contractor its affirmative action plan. The responsibility for securing these affirmative action plans falls upon the Contractor and shall be on file at the office of the Contractor. The Contractor shall furnish all information and reports required by the Owner or its representative pursuant to the Contract Documents, and shall permit access to its books, records, and accounts by the contracting agency of the Owner and by the Executive Secretary of the Owner for purposes of investigation to ascertain compliance with the program.

e. The Contractor shall take such action with respect to any subcontractor as the Owner may direct as a means of enforcing the provisions of this equal opportunity clause, including penalties and sanctions for noncompliance; provided, however, that in the event the Contractor becomes involved in or is threatened with litigation as is necessary to protect the interests of the Owner and to effectuate the Owner's equal opportunity program and, in the case of contracts receiving Federal assistance, the Contractor or the Owner may request the United States to enter into such litigation to protect the interests of the United States.

f. The Contractor shall file and shall cause its subcontractors, if any, to file compliance reports with the Owner in the form and to the extent prescribed by the Owner or its representative. Compliance reports filed at such times as directed shall contain information as to the employment practices, policies, programs, and statistics of the Contractor and its subcontractors.

g. The Contractor shall include the provisions of this equal employment opportunity clause in every subcontract or purchase order, so that such provisions will be binding upon each subcontractor or vendor.

h. Refusal by the Contractor or subcontractor to comply with any portion of this program as herein stated and described will subject the offending party to any or all of the following penalties:

(1) Withholding of all future payments under the involved public contract to the Contractor in violation, until it is determined that the Contractor or subcontractor is in compliance with the provisions of the Agreement.

(2) Refusal of all future bids for any public contract with the Owner or any of its departments or divisions, until such time as the Contractor or subcontractor demonstrates that it has established and shall carry out the policies of the program as herein outlined.

(3) Cancellation of the public contract and declaration of forfeiture of the performance bond.

(4) In cases is which there is substantial or material violation or the threat of substantial or material violation of the compliance procedure or as may be provided by contract, appropriate proceedings may be brought to

enforce these provisions, including enjoining within applicable laws of contractors, subcontractors, or other organizations, individuals, or groups who prevent, directly or indirectly, or seek to prevent, directly or indirectly, compliance with the policy as herein outlined.

2. A Project Labor Agreement (PLA) is not required for this project. Prevailing Wages are required for this Project (See Appendix B).

Y. OHIO PUBLIC WORKS COMMISSION FUNDING

1. **No** When this line is checked by the Owner, e.g. with an "X" or other mark, the Project is being funded in whole or part by the Ohio Public Works Commission ("OPWC"), and the requirements of the OPWC, attached to these Instructions to Bidders, apply.

2. The OPWC requirements include that the Bidder include with its bid certification of agreement and compliance with certain statements and covenants regarding its subscription to the State's Equal Employment Opportunity Requirements for State-assisted Construction Contracts.

END OF INSTRUCTIONS TO BIDDERS

OWNER-CONTRACTOR AGREEMENT

[Where Owner Performs Construction Administration Duties]

Owner:
The City of Canton
218 Cleveland Avenue SW
Canton, OH 44702
Telephone: 330.489.3283

Contract:
Ordinance: 52/2021
Alternates:

Contractor:
Telephone:
Fax:

Project:
Timken PI/Clark Ave Connector Project, GP1313, PID 113895/PID 114049

This document is an agreement between the Owner and the Contractor for the Work described in the Contract Documents related to the Contract identified above for the Project defined above and is effective as of the date the Agreement is signed by the Owner (the "Effective Date").

The Owner and the Contractor agree as set forth in the following sections:

1. **CONTRACT DOCUMENTS.** The Contract Documents consist of the following documents:

A. Legal Notice;
B. Instructions to Bidders;
C. Bid Form;
D. Owner-Contractor Agreement;
E. General Conditions of the Contract for Construction (EJCDC C-700), as modified;
F. Supplementary Conditions (when applicable);
G. Drawings;
H. Specifications;
I. Addenda issued;
J. Contractor's Personal Property Tax Affidavit (O.R.C. 5719.042);
K. Statement of Claim Form; and
L. Modifications issued after the execution of the contract, including:
   i. A Change Order;
   ii. A Work Change Directive; or,
   iii. A written order for a minor change of the Work issued by the Owner or Engineer in accordance with the General Conditions.

M. **Yes** When this line is checked by the Owner, e.g. with an "X" or other mark, the State of Ohio Department of Transportation, Construction and Material Specifications, effective as of January 1, 2019, will be a Contract Document, but only as modified by the document titled *ODOT Manual Supplement*, prepared by Owner.

1.1 Notwithstanding anything in the Contract Documents to the contrary, in the event of any inconsistency, the provisions of this Agreement shall control over any other Contract Document, proposal, document, or other attachment. In the event inconsistencies, conflicts, or ambiguities between or among the Contract Documents are discovered after execution of the Agreement, Contractor shall provide the better quality or greater quantity of Work or comply with the more stringent requirements.

Note: **Non-Contract Documents**. The following are the reports and tests of subsurface conditions at or contiguous to the Site, if any, that the Engineer has used in preparing the Contract Documents. These are not Contract Documents. Geotechnical data is not a warranty of subsurface conditions and is not to be relied upon as a complete representation of all possible soil conditions. It is possible that there may be other reports, and/or tests of subsurface conditions at or contiguous to the Site not prepared by or on behalf of Owner. The Owner makes no representation about such reports and/or tests, assuming they exist. Additional information, if needed by Contractor for geotechnical data or site survey, shall be obtained by the Contractor at no additional cost to Owner. The General Conditions, as modified, contain additional terms related to these reports and tests.

Contractor may rely upon the general accuracy of the “technical data” contained in such reports and drawings listed below, and except for such reliance on “technical data,” Contractor shall not rely upon or make any claim against Owner or Engineer with respect to: (1) the completeness of such reports and drawings for Contractor’s purposes, including, but not limited to, any aspects of the means, methods, techniques, sequences, and procedures of construction to be employed by Contractor, and safety precautions and programs incident thereto; or (2) other data, interpretations, opinions, and information contained in such reports or shown or indicated in such drawings; or (3) any Contractor interpretation of or conclusion drawn from any "technical data" or any such other data, interpretations, opinions, or information. For example, all interpolations and extrapolations of data performed by Contractor to estimate locations or quantities of subsurface strata are independent factual assumptions which Owner does not warrant. (Not applicable, if none are listed).

Note: **Non-Contract Documents**. The following are those reports and drawings related to any Hazardous Conditions at the Site, if any. These are not Contract Documents. The General Conditions, as modified, contain additional terms related to these reports and drawings. (None if none are listed).

2. ENGINEER RELATIONSHIP. The Contract Documents shall not be construed to create a contractual relationship of any kind between the Engineer and the Contractor or any Subcontractor or Material Supplier to the Project. The Engineer, however, shall be entitled to performance of the obligations of the Contractor intended for its benefit and to enforcement of such obligations, but nothing contained herein shall be deemed to give the Contractor or any third party any claim or right of action against the Engineer that does not otherwise exist without regard to this Contract. The Contractor and its Subcontractors shall not be deemed to be beneficiaries of any of the acts or services of the Engineer that are performed for the sole benefit of the Owner.

Owner will be performing construction administration duties as identified in the General Conditions, including, but not limited to: reviewing Applications for Payment, Change Proposals, Claims, and Shop Drawings; measuring Work quantities; and issuing Work Change Directives.

2.1 The Engineer is:
Dan Moeglin
dan.moeglin@cantonohio.gov
330-438-6903

3. TIME FOR COMPLETION AND PROJECT COORDINATION.

3.1 DATE OF COMMENCEMENT. The date of commencement of the Work shall be the date identified in the Notice to Proceed issued by the Owner, or by the Owner through the Engineer, to the Contractor, or if there is no Notice to Proceed, the Effective Date of this Agreement.

3.2 DATE OF SUBSTANTIAL COMPLETION. The Project and Work for the Project consists of all labor, materials, equipment, and services necessary for construction of the Project, all in accordance with the Drawings and Specifications prepared by the Owner or Engineer. The Contractor shall achieve Substantial Completion of its Work on the Project, as defined in the General Conditions, within **210 calendar days** of the Date of Commencement ("Date of Substantial Completion"). Substantial Completion is the time at which the Work has progressed to the point where the Work is sufficiently complete, in accordance with the Contract Documents, so that the Work can be utilized for the purposes for which it is intended.

3.2.1 DATE OF FINAL COMPLETION. The Contractor shall achieve Final Completion of its Work on the Project, as defined in the General Conditions, within **30 calendar days** of the Date of Substantial Completion ("Date of Final Completion"). Final Completion shall mean that the Work is complete in accordance with the Contract Documents and the Contractor has submitted to the Owner or Engineer all documents required to be submitted to the Owner or Engineer for final payment.

3.2.2 UTILITIES AND OPERATIONS. Contractor shall not interrupt utilities to facilities or existing operations without prior written notice and approval by Owner.

3.2.3 SHUTDOWN DATES. Due to events scheduled by the Owner and/or other Owner considerations, Contractor will not be able to perform Work on the Project on the following dates (there are no shutdown dates if none are listed):

Contractor's Construction Schedule for performing the Work shall account for Contractor not being able to perform Work on these dates and the contractual dates for Substantial Completion and Final Completion will not be changed due to Contractor not being able to perform Work on these dates.

3.3 CONSTRUCTION SCHEDULE. The Construction Schedule shall be developed by the Contractor as provided in the Contract Documents.

3.4 LIQUIDATED DAMAGES. If the Contractor does not have its Work on the Project Substantially Complete by the specified Date for Substantial Completion or Finally Complete by the Date of Final Completion, the Contractor shall pay the Owner (and the Owner may set off from sums coming due the Contractor) Liquidated Damages in the per diem amounts as set forth in the following tables, whichever may be applicable. "Contract Amount" of the Work will be determined by totaling the cost of all line items of Work.

LIQUIDATED DAMAGES – DATE FOR SUBSTANTIAL COMPLETION OF OVERALL PROJECT

Original Contract Amount	Dollars Per Day
$1.00 to $500,000.00	$ 750.00
$500,000.01 to $2,000,000.00	$ 1,000.00
$2,000,000.01 to $10,000,000.00	$ 1,300.00
$10,000,000.01 to $50,000,000.00	$ 2,000.00
$50,000,000.01 and greater	$ 2,500.00

LIQUIDATED DAMAGES – FINAL COMPLETION

Original Contract Amount	Dollars Per Day
$1.00 to $500,000.00	$ 200.00
$500,000.01 to $2,000,000.00	$ 250.00
$2,000,000.01 to $10,000,000.00	$ 325.00
$10,000,000.01 to $50,000,000.00	$ 500.00
$50,000,000.01 and greater	$ 625.00

LIQUIDATED DAMAGES FOR SUBSTANTIAL COMPLETION FOR ANY INTERIM MILESTONE SCOPE WILL BE $1,000 PER DAY FOR EACH DAY OF UNEXCUSED DELAY BEYOND THE MILESTONE.

The Contractor acknowledges that such amounts of Liquidated Damages represent a reasonable estimate of the actual damages for loss of or interference with the intended use of the Project that the Owner would incur if the Contractor's Work is not Substantially Complete by its Date for Substantial Completion or Finally Complete by the required date for Final Completion.

4. **CONTRACT SUM (also called Contract Price).** The Contract Sum to be paid by the Owner to the Contractor, as provided herein, for the satisfactory performance and completion of the Work and all of the duties, obligations, and responsibilities of the Contractor under this Agreement and the other Contract Documents is **$**, subject to adjustment as set forth in the Contract Documents. The Contract Sum includes Allowances, Accepted Alternates, and all federal, state, county, municipal, and other taxes imposed by law, including but not limited to any sales, use, commercial activity, and personal property taxes payable by or levied against the Contractor on account of the Work or the materials incorporated into the Work. The Contractor will pay any such taxes. The Contract Sum includes the following:

4.1 Base Bid Amount: $ (Lump Sum Bid); and

4.2 Accepted Alternates, included in the Contract Sum:

Alternate No.	Description	Amount
1	NA	$
2	NA	$

4.3 Allowances included in the Contract Sum:

Allowance Description	Amount
Allowance #1: NA	$
Allowance #2: NA	$

4.4 If after Substantial Completion of its Work, the Contractor fails to submit its final payment application with all the documents required to be submitted with such application within ninety (90) days after written notice to do so from the Owner and without prejudice to any other rights and remedies the Owner may have available to it, the balance of the Contract Sum shall become the Owner's sole and exclusive property, and the Contractor shall have no further interest in or right to such balance.

5. **RETAINAGE.** Retainage applicable to the Contract by Ohio Revised Code Sections 153.12, .13, and .14 will be withheld as defined in the Modified General Conditions. The Contractor agrees that the financial institution selected by the Owner for deposit of retained funds is acceptable to the Contractor and will sign any documents requested related to said account.

6. GENERAL.

6.1 MODIFICATION. No modification or waiver of any of the terms of this Agreement or of any other Contract Documents will be effective against a party unless set forth in writing and signed by or on behalf of a party. In the case of the Owner, the person executing the modification or waiver must have express authority to execute the Modification on behalf of the Owner pursuant to a resolution that is duly adopted by the Owner. Under no circumstances will forbearance, including the failure or repeated failure to insist upon compliance with the terms of the Contract Documents, constitute the waiver or modification of any such terms. The parties acknowledge that no person has authority to modify this Agreement or the other Contract Documents or to waive any of its or their terms, except as expressly provided in this section.

6.2 ASSIGNMENT. The Contractor may not assign this Agreement without the written consent of the Owner, which the Owner may withhold in its sole discretion.

6.3 LAW AND JURISDICTION. All questions regarding the validity, intention, or meaning of this Agreement or any modifications of it relating to the rights and obligation of the parties will be construed and resolved under the laws of the State of Ohio. Any suit, which may be brought to enforce any provision of this Agreement or any remedy with respect hereto, shall be brought in the Common Pleas Court of the county in which the Project is located and each party hereby expressly consents to the exclusive jurisdiction of such court to the exclusion of any other court, including any U.S. District Court or any other federal court.

6.4 CONSTRUCTION. The parties acknowledge that each party has reviewed this Agreement and the other Contract Documents and entered into this Agreement as a free and voluntary act. Accordingly, the normal rule of construction to the effect that any ambiguities are to be resolved against the drafting party will not be employed in the interpretation of this Agreement, the other Contract Documents, or any amendments or exhibits to it or them.

6.5 APPROVALS. Except as expressly provided herein, the approvals and determinations of the Owner and Engineer will be subject to the sole discretion of the respective party and be valid and binding on the Contractor, provided only that they be made in good faith, i.e., honestly. If the Contractor challenges any such approval or determination, the Contractor has the burden of proving that it was not made in good faith by clear and convincing evidence.

6.6 PARTIAL INVALIDITY. If any term or provision of this Agreement is found to be illegal, unenforceable, or in violation of any laws, statutes, ordinances, or regulations of any public authority having jurisdiction, then, notwithstanding such term or provision, this Agreement will remain in full force and effect and such term will be deemed stricken; provided this Agreement will be interpreted, when possible, so as to reflect the intentions of the parties as indicated by any such stricken term or provision.

6.7 COMPLIANCE WITH LAWS AND REGULATIONS. The Contractor, at its expense, will comply with all applicable federal, state, and local laws, rules, and regulations applicable to the Work, including but not limited to Chapter 4115 of the Ohio Revised Code and Sections 153.59 and 153.60 of the Ohio Revised Code, which prohibit discrimination in the hiring and treatment of employees, with respect to which the Contractor agrees to comply and to require its subcontractors to comply.

6.7.1 NON-DISCRIMINATION. Contractor agrees:

.1 That in the hiring of employees for the performance of Work under this Agreement or in any subcontract, neither the Contractor, subcontractor, or any person acting on behalf of either of them, shall by reason of race, creed, sex, disability as defined in Section 4112.01 of the Ohio Revised Code, or color discriminate against any citizen of the state in the employment of labor or workers who are qualified and available to perform the Work to which the employment relates.

.2 That neither the Contractor, subcontractor, nor any person acting on behalf of either of them shall, in any manner, discriminate against or intimidate any employee hired for the performance of Work under this Agreement on account of race, creed, sex, disability as defined in Section 4112.01 of the Ohio Revised Code, or color.

.3 That there shall be deducted from the amount payable to the Contractor by the Owner under this Agreement a forfeiture of twenty-five dollars ($25.00) as required by Ohio Revised Code Section 153.60 for each person who is discriminated against or intimidated in violation of this Agreement.

.4 That this Agreement may be canceled or terminated by the Owner and all money to become due hereunder may be forfeited for a second or subsequent violation of the terms of this section of this Agreement.

6.7.2 **PREVAILING WAGE RATES.** The Contractor and its subcontractors, regardless of tier, shall strictly comply with their obligation, if any, to pay their employees working on the Project site at the applicable prevailing wage rates for the type of work, including any changes thereto, pursuant to Ohio Revised Code Chapter 4115.

6.7.3 **ETHICS.** By signing and entering into this agreement with the Owner, the Contractor represents that it is familiar with all applicable ethics law requirements, including without limitation Sections 102.04 and 3517.13 of the Ohio Revised Code, and certifies that it is in compliance with such requirements. The Contractor understands that failure to comply with the ethics laws is, in itself, grounds for termination of this contract and may result in the loss of other contracts with the Owner.

6.8 **JOB MEETINGS.** The Contractor or one of its representatives with authority to bind the Contractor will attend all job meetings. The Owner anticipates that job meetings will be scheduled on a weekly basis during construction or as needed. The Contractor will ensure that its Subcontractors also hold regular job meetings at which safety issues and job matters are discussed as these relate to the Work being performed. Job meetings include, but are not limited to, pre-construction meetings, weekly job meetings, weekly safety tool box meetings, and monthly safety meetings.

6.9 **PROPERTY TAX AFFIDAVIT.** The Contractor's affidavit given under Section 5719.024, Ohio Revised Code, is incorporated herein.

6.10 **WARRANTIES.** Notwithstanding anything to the contrary in the Contract Documents, including the Project Manual and Specifications, no warranties by Contractor shall be limited to any time shorter than the statute of limitations for written contracts in Ohio.

6.11 **CONTRACTOR ATTESTATIONS.**

.1 Contractor attests that it has not scaled these contract documents to determine quantities for bids, as Contractor has field verified and taken its own dimensions to determine the quantities for its bid.

.2 Contractor agrees that all the scales noted on the drawings are correct; so as to give it an "intent" of what is to be bid. Contractor has not relied on any other dimensions than what are noted in text and dimension lines.

.3 Contractor has thoroughly read the Contract Documents and has asked any and all questions it has on the intent of the scope of work, or supposed errors and omissions contained in these drawings, during the bid process and prior to signing this Agreement.

.4 Contractor will not be asserting a claim for additional time or money associated with the three issues listed above.

.5 Contractor believes it has accurately interpreted the Contract Documents and has asked for clarification and received satisfactory response for all items not thoroughly addressed or appeared to be conflicting in the Contract Documents and has found all stipulations and requirements contained in this Agreement are as stated in the bid specifications and are enforceable according to Ohio Law, including but not limited to the Owner's right of offset, and the Owner's right to assess liquidated damages for work not completed according to the milestones listed on the project schedule contained in the Contract Documents.

6.12 ENTIRE AGREEMENT. This Agreement and the other Contract Documents constitute the entire agreement among the parties with respect to their subject matter and will supersede all prior and contemporaneous, oral or written, agreements, negotiations, communications, representations, and understandings with respect to such subject matter, and no person is justified in relying on such agreements, negotiations, communications, representations, or understandings.

IN WITNESS WHEREOF, the parties have caused this Agreement to be executed by their properly authorized representatives and agree that this Agreement is effective as of the date first set forth above.

Owner:
The City of Canton

By: _____

Name: _____

Title: _____

Date: _____

Contractor:

By: _____

Name: _____

Title: _____

Date: _____

CERTIFICATE
(Section 5705.41, R.C.)

The undersigned, fiscal officer of the Owner, certifies that the moneys required to pay that part of the Contract Sum coming due during the current fiscal year, under the Agreement to which this Certificate is attached have been lawfully appropriated for such purpose and are in the appropriate account of the Owner, or in the process of collection to the credit of the appropriate account or fund, free from any previous encumbrances. Moneys due in excess of the Contract Sum shall require an additional and separate Fiscal Officer's Certificate.

DATED: _____

_____
Fiscal Officer

BID GUARANTY AND CONTRACT BOND

(O.R.C. § 153.571)

KNOW ALL PERSONS BY THESE PRESENTS, that we, the undersigned _____ _____ ("Contractor") as principal and _____ _____ as surety are hereby held and firmly bound unto the **City of Canton** as obligee in the penal sum of the dollar amount of the bid submitted by the principal to the obligee on _____ _____, 20__, to undertake the construction of the **Timken PI/Clark Ave Connector Project, GP1313, PID 113895/PID 114049 Project** ("Project"). The penal sum referred to herein shall be the dollar amount of the principal's bid to the obligee, incorporating any additive or deductive Alternates made by the principal on the date referred to above to the obligee, which are accepted by the obligee. In no case shall the penal sum exceed the amount of _____ Dollars ($_____ _____). (If the foregoing blank is not filled in, the penal sum will be the full amount of the principal's bid, including add Alternates. Alternatively, if the blank is filled in the amount stated must not be less than the full amount of the bid including add Alternates, in dollars and cents. A percentage is not acceptable.) For the payment of the penal sum well and truly to be made, we hereby jointly and severally bind ourselves, our heirs, executors, administrators, successors, and assigns.

Signed this _____ day of _____, 20__.

THE CONDITION OF THE ABOVE OBLIGATION IS SUCH that whereas the above named principal has submitted a bid for work on the Project.

Now, therefore, if the obligee accepts the bid of the principal and the principal fails to enter into a proper contract in accordance with the bid, plans, details, specifications, and bills of material; and in the event the principal pays to the obligee the difference not to exceed ten percent (10%) of the penalty hereof between the amount specified in the bid and such larger amount for which the obligee may in good faith contract with the next lowest bidder to perform the work covered by the bid; or in the event the obligee does not award the contract to the next lowest bidder and resubmits the project for bidding, the principal pays to the obligee the difference not-to-exceed ten percent (10%) of the penalty hereof between the amount specified in the bid, or the costs, in connection with the resubmission, of printing new contract documents, required advertising, and printing and mailing notices to prospective bidders, whichever is less, then this obligation shall be null and void, otherwise to remain in full force and effect; if the obligee accepts the bid of the principal and the principal within ten (10) days after the awarding of the contract enters into a proper contract in accordance with the bid, plans, details, specifications, and bills of material, which said contract is made a part of this bond the same as though set forth herein.

Now also, if the said principal shall well and faithfully do and perform the things agreed by said principal to be done and performed according to the terms of said contract; and shall pay all lawful claims of subcontractors, materialmen, and laborers, for labor performed and materials furnished in the carrying forward, performing, or completing of said contract; we agreeing and assenting that this undertaking shall be for the benefit of any materialman or laborer having a just claim, as well as for the obligee herein; then this obligation shall be void; otherwise the same shall remain in full force and effect; and surety shall indemnify the obligee against all damage suffered by failure of the principal to perform the contract according to its provisions and in accordance with the plans, details, specifications, and bills of material therefor and to pay all lawful claims of subcontractors, materialmen, and laborers for labor performed or material furnished in carrying forward, performing, or completing the contract and surety further agrees and assents that this undertaking is for the benefit of any subcontractor, materialman, or laborer having a just claim, as well as for the obligee; it being expressly understood and agreed that the liability of the surety for any and all claims hereunder shall in no event exceed the penal amount of this obligation as herein stated.

The said surety hereby stipulates and agrees that no modifications, omissions, or additions in or to the terms of the said contract or in or to the plans or specifications therefore shall in any wise affect the

obligations of said surety on its bond, and does hereby waive notice of any such modifications, omissions or additions to the terms of the contract or to the work or to the specifications.

Signed and sealed this _____ day of _____, 20__.

_____
PRINCIPAL

By: _____

Printed Name & Title: _____

_____
SURETY

By: _____

Printed Name & Title: _____

_____

Surety's Address: _____

_____

Surety's Telephone Number: _____

Surety's Fax Number: _____

_____
SURETY'S AGENT

Surety's Agent's Address: _____

_____

Surety's Agent's Telephone Number: _____

Surety's Agent's Fax Number: _____

NOTE: The Contract Bond form that follows is to be used ONLY by a bidder that is awarded a contract <u>and</u> submits a form of bid guaranty other than the combined Bid Guaranty and Contract Bond with its bid. If a bidder submits a combined Bid Guaranty and Contract Bond, then the bid guaranty becomes the contract bond when the contract is awarded.

AIA and EJCDC Bid Bond or Payment and Performance Bond forms are not acceptable for this Project.

CONTRACT BOND
(O.R.C. § 153.57)

KNOW ALL PERSONS BY THESE PRESENTS, that we, the undersigned ("Contractor"), as principal, and _____, as surety, are hereby held and firmly bound unto the **City of Canton** ("Owner") as oblige, in the penal sum of _____ _____ Dollars ($_____ _____), for the payment of which well and truly to be made, we hereby jointly and severally bind ourselves, our heirs, executors, administrators, successors, and assigns.

THE CONDITION OF THE ABOVE OBLIGATION IS SUCH that whereas, the above-named principal did on the _____ day of _____, 20__, enter into a contract with the Owner for construction of the **Timken Pl/Clark Ave Connector Project, GP1313, PID 113895/PID 114049 Project** ("Project"), which said contract is made a part of this bond the same as though set forth herein:

Now, if the said Contractor shall well and faithfully do and perform the things agreed by the Contractor to be done and performed according to the terms of said contract; and shall pay all lawful claims of subcontractors, materialmen, and laborers, for labor performed and materials furnished in the carrying forward, performing, or completing of said contract; we agreeing and assenting that this undertaking shall be for the benefit of any materialman or laborer having a just claim, as well as for the obligee herein; then this obligation shall be void; otherwise the same shall remain in full force and effect; it being expressly understood and agreed that the liability of the surety for any and all claims hereunder shall in no event exceed the penal amount of this obligation as herein stated.

The said surety hereby stipulates and agrees that no modifications, omissions, or additions in or to the terms of the said contract or in or to the plans or specifications therefore shall in any wise affect the obligations of said surety on its bond, and does hereby waive notice of any such modifications, omissions or additions to the terms of the contract or to the work or to the specifications.

Signed and sealed this _____ day of _____, 20__.

_____
(PRINCIPAL)

By: _____

Printed Name & Title:_____

_____

_____
(SURETY)

By: _____

Printed Name & Title:_____

_____

Surety's Address: _____

_____

Surety's Telephone Number:_____

Surety's Fax Number:_____

_____
NAME OF SURETY'S AGENT

Surety's Agent's Address: _____

_____

_____

Surety's Agent's Telephone Number:_____

Surety's Agent's Fax Number:_____

BID FORM

1.01 BID SUBMITTED BY:

_____
(Contractor)

Date bid submitted: _____

1.02 DELIVER TO:

The City of Canton
ATTN: **Purchasing/Bids**
218 Cleveland Avenue SW
Canton, OH 44702

1.03 Having carefully reviewed the Instructions to Bidders, Drawings, Specifications and other Contract Documents for the Project titled **Timken Pl/Clark Ave Connector Project, GP1313, PID 113895/PID 114049 Project** including having also received, read, and taken into account the following Addenda:

Addendum No.	Dated
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

and likewise having inspected the site and the conditions affecting and governing the Project, the undersigned hereby proposes to furnish all materials and to perform all labor, as specified and described in the said Specifications and/or as shown on the said Drawings for all Work necessary to complete the Project on a timely basis and in accordance with the Contract Documents regardless of whether expressly provided for in such Specifications and Drawings.

1.04 Before completing the Bid Form, the undersigned represents that it has carefully reviewed the Legal Notice to Bidders, Instructions to Bidders, this Bid Form, Form of Bid Guaranty and Contract Bond, Contractor's Affidavit (O.R.C. 5719.042), Owner-Contractor Agreement, General Conditions of the Contract (EJCDC C-700) (as modified for the Project), Drawings, Project Specifications, and other Contract Documents. Failure to comply with provisions of the Contract Documents may be cause for disqualification of the bid.

1.05 BONDS AND CONTRACT: If the undersigned is notified of bid acceptance, it agrees to furnish required bonds as indicated in the Instructions to Bidders.

1.06 COMPLETION OF WORK: In submitting a bid, the undersigned agrees to execute the Owner-Contractor Agreement in the form included in the Contract Documents and to complete its Work as required by the Contract Documents.

NOTE A: The wording of the Bid Form shall be used throughout, without change, alteration, or addition. Any change may cause it to be rejected.

NOTE B: Bidder is cautioned to bid only on the Brands or Standards specified.

NOTE C: If there is an inconsistency or conflict in the Bid amount, the lowest amount shall control, whether expressed in numbers or words.

2.01 BID:
Include the cost of all labor and material for the contract listed below. Bidder is to fill in all blanks related to the Bid Package for which a bid is being submitted. If no bid is submitted for an item, leave the item blank or insert "NO BID" in the blank. For alternate items, indicate whether the amount stated is in addition to or a deduction from the base bid amount (if there is no indication whether the amount for an alternate is an addition or a deduction, the amount shall be a deduction).

2.02 Bidder will complete the Work in accordance with the Contract Documents for the prices set forth in the attached Bid Schedule.

3.01 INSTRUCTIONS FOR SIGNING

A. The person signing for a sole proprietorship must be the sole proprietor or his authorized representative. The name of the sole proprietor must be shown below.

B. The person signing for a partnership must be a partner or his authorized representative.

C. The person signing for a corporation must be the president, vice president or other authorized representative; or he must show authority, by affidavit, to bind the corporation.

D. The person signing for some other legal entity must show his authority, by affidavit, to bind the legal entity.

4.01 BIDDER CERTIFICATIONS. The Bidder hereby acknowledges that the following representations in this bid are material and not mere recitals:

1. The Bidder acknowledges that this is a public project involving public funds, and that the Owner expects and requires that each successful Bidder adhere to the highest ethical and performance standards. The Bidder by submitting its bid pledges and agrees that (a) it will act at all times with absolute integrity and truthfulness in its dealings with the Owner and the Design Professional, (b) it will use its best efforts to cooperate with the Owner and the Design Professional and all other Contractors on the Project and at all times will act with professionalism and dignity in its dealings with the Owner, Design Professional and other Contractors, (c) it will assign only competent supervisors and workers to the Project, each of whom is fully qualified to perform the tasks that are assigned to him/her, and (d) it has read, understands and will comply with the terms of the Contract Documents.

2. The Bidder represents that it has had a competent person carefully and diligently review each part of the Contract Documents, including any Divisions of the Specifications and parts of the Drawings that are not directly applicable to the Work on which the Bidder is submitting its bid. By submitting its bid, each Bidder represents and agrees, based upon its careful and diligent review of the Contract Documents, that it is not aware of any conflicts, inconsistencies, errors or omissions in the Contract Documents for which it has not notified the Owner in writing at least ten (10) days prior to the bid opening. If there are any such conflicts, inconsistencies, errors or omissions in the Contract Documents, the Bidder (i) will provide the labor, equipment or materials of the better quality or greater quantity of Work; and/or (ii) will comply with the more stringent requirements. The Bidder will not be entitled to any additional compensation for any conflicts, inconsistencies, errors or omissions that would have been discovered by such careful and diligent review, unless it has given such prior written notice to Owner.

3. The Bidder represents that it has had a competent person carefully and diligently inspect and examine the entire site for the Project and the surrounding area, including all parts of the site applicable to the Work for which it is submitting its bid, and carefully correlate the results of the inspection with the requirements of the Contract Documents. The Bidder agrees that its bid shall include all costs attributable to site and surrounding area conditions that would have been discovered by such careful and diligent inspection and examination of the site and the

surrounding area, and the Bidder shall not be entitled to any Change Order, additional compensation, or additional time on account of conditions that could have been discovered by such an investigation.

4. The Bidder represents, understands and agrees that a) the Claim procedures in the General Conditions as modified for the Project are material terms of the Contract Documents, b) if it has a Claim, it will have its personnel provide complete and accurate information to complete and submit the Statement of Claim form on a timely basis, c) the proper completion and timely submission of a Statement of Claim form is a condition precedent to any change in the Contract Sum or the Contract Time(s), and d) the proper and timely submission of the Statement of Claim form provides the Owner with necessary information so that the Owner may investigate the Claim and mitigate its damages.

5. The Bidder represents that the bid contains the name of every person interested therein and is based upon the Standards specified by the Contract Documents.

6. The Bidder and each person signing on behalf of the Bidder certifies, and in the case of a bid by joint venture, each member thereof certifies as to such member's entity, under penalty of perjury, that to the best of the undersigned's knowledge and belief: (a) the Base Bid, any Unit Prices and any Alternate bid in the bid have been arrived at independently without collusion, consultation, communication or agreement, or for the purpose of restricting competition as to any matter relating to such Base Bid, Unit Prices or Alternate bid with any other Bidder; (b) unless otherwise required by law, the Base Bid, any Unit Prices and any Alternate bid in the bid have not been knowingly disclosed by the Bidder and will not knowingly be disclosed by the Bidder prior to the bid opening, directly or indirectly, to any other Bidder who would have any interest in the Base Bid, Unit Prices or Alternate bid; (c) no attempt has been made or will be made by the Bidder to induce any other Person to submit or not to submit a bid for the purpose of restricting competition; and (d) the statements made in this Bid Form are true and correct.

7. The Bidder will execute the form of Owner/Contractor Agreement in the form included with the Contract Documents, if a Contract is awarded on the basis of this bid, and if the Bidder does not execute the Contract Form for any reason, other than as authorized by law, the Bidder and the Bidder's Surety are liable to the Owner.

8. The Bidder certifies that the upon the award of a Contract, the Contractor will ensure that all of the Contractor's employees, while working on the Project site, will not purchase, transfer, use or possess illegal drugs or alcohol or abuse prescription drugs in any way.

9. The Bidder agrees to furnish any information requested by the Owner's authorized representative to evaluate that the Bidder has submitted the lowest and best bid and that the bid is responsive to the specifications.

10. The Bidder certifies that it has no unresolved findings for recovery issued by the Auditor of State.

11. The Bidder certifies that it is aware of and in compliance with the requirements of Ohio Revised Code Section 3517.13 regarding campaign contributions.

LEGAL NAME OF BIDDER: _____

BIDDER IS (check one): __ sole proprietor __ partnership __ corporation __ other legal entity

NAME & TITLE OF PERSON LEGALLY AUTHORIZED TO BIND BIDDER TO A CONTRACT:

_____
Name Title

DATE SIGNED: _____

SIGNATURE: _____

ADDRESS: _____

_____

TELEPHONE: _____

FAX: _____

FEDERAL TAX I.D. # _____

When the Bidder is a partnership or a joint venture, state name and address of each partner in the partnership or participant in the joint venture below:

_____ _____

_____ _____
Name

_____
Address

_____ _____

_____ _____
Name

_____
Address

_____ _____

_____ _____
Name

_____
Address

_____ _____

_____ _____
Name

_____
Address

_____ _____

_____ _____
Name

_____
Address

END OF SECTION

CONTRACTOR'S QUALIFICATION STATEMENT

Timken Pl/Clark Ave Connector Project, GP1313, PID 113895/PID 114049 Project

SUBMITTED TO: The City of Canton
ATTN: **Purchasing/Bids**
218 Cleveland Avenue SW
Canton, OH 44702

SUBMITTED BY: _____

NAME: _____

ADDRESS: _____
_____
_____

PRINCIPAL OFFICE: _____
_____

☐ Corporation

☐ Partnership

☐ Individual

☐ Joint Venture

☐ Other

NAME OF PROJECT: **Timken Pl/Clark Ave Connector Project, GP1313, PID 113895/PID 114049** Project

1. ORGANIZATION

1.1 How many years has your organization been in business as a Contractor in the construction industry?

1.2 How many years has your organization been in business under its present business name?

1.2.1 Under what other or former names has your organization operated?

1.3 If your organization is a corporation, answer the following:

1.3.1 Date of incorporation:

1.3.2 State of incorporation:

1.3.3 President's name:

1.3.4 Vice President's name(s):

1.3.5 Secretary's name:

1.3.6 Treasurer's name:

1.4 If your organization is a partnership, answer the following:

1.4.1 Date of organization:

1.4.2 Type of partnership (if applicable):

1.4.3 Name(s) of general partner(s):

1.5 If your organization is individually owned, answer the following:

1.5.1 Date of organization:

1.5.2 Name of owner:

1.6 If the form of your organization is other than those listed above, describe it and name the principals:

2. LICENSING

2.1. List jurisdictions and trade categories in which your organization is legally qualified to do business, and indicate registration or license numbers, if applicable.

2.2. List jurisdictions in which your organization's partnership or trade name is filed.

2.3. List any suspension or revocations of any professional license of any director, officer, owner, or managerial employees of the Contractor, to the extent that any work to be performed on this Project is within the field of such licensed profession.

3. EXPERIENCE

3.1. List the categories of work that your organization normally performs with its own forces.

3.2. Claims and Lawsuits (If the answer to any of the questions below is yes, please attach details.)

3.2.1. Has your organization ever failed to complete any work?

3.2.2. Has your organization ever failed to complete any work by the substantial completion date, final completion date, or in a timely manner?

3.2.3. Within the last five (5) years has your organization or any of its officers prosecuted any Claims, had any Claims prosecuted against it or them, or been involved in or is currently involved in any mediation or arbitration proceedings or lawsuits related to any construction project, or has any judgments or awards outstanding against it or them? Has your organization had any extension requests, fines and penalties imposed, or contract defaults? If the answer is yes, please attach the details for each Claim, including the names and telephone numbers of the persons who are parties, the amount of the Claim, the type of Claim and the basis for the Claim, and the outcome.

Note: As used in this document "Claim" means a Claim initiated under the Contract Documents for a project or relating to the Work for a project, including Claims made against performance bonds secured by the Contractor on other construction projects.

3.3. Has your organization ever failed to comply with federal, state, and local laws, rules, and regulations, including but not limited to the Occupational Safety and Health Act, the Ohio Prevailing Wage laws, and Ohio ethics laws? If the answer is yes, please attach details and reason(s) for each instance and the outcome including any fines or penalties imposed.

3.4. Within the last five years, has any officer or principal of your organization ever been an officer or principal of another organization when it failed to complete a construction contract? If the answer is yes, please attach details for each instance, including the names and telephone numbers of the persons who are parties to the contract, and the reason(s) the contract was not completed.

3.5. On a separate sheet, list construction projects your organization has in progress with an original Contract Sum of more than $10,000,000, giving the name of project, owner and its telephone number, design professional and its telephone number, contract amount, percent complete and scheduled completion date.

3.5.1. State total amount of work in progress and under contract:

3.6. Provide the following information for each contract your organization has had during the last five (5) years, including current contracts, where the Contract Sum is fifty percent (50%) or more of the bid amount for this Project, including add alternates. Include details regarding timeliness of performance and quality of work. List the original contract price for each project, the amount of any change orders or cost overruns on each, the reasons for the change orders or cost overruns, and your organization's record for complying with and meeting completion deadlines on construction projects. If there are more than ten (10) of these contracts, only provide information on the most recent ten (10) contracts, including current contracts.

Project And Work	Contract Sum	Owner's Representative & Telephone Number	Engineer's Or Architect's Representative Name & Telephone Number	Additional Comments

3.7. Provide the following information for each project your organization has had during the last five (5) years, which your organization believes is of comparable or greater size and complexity than the Owner's project. Include details regarding how such projects demonstrate your organization's ability and capacity to perform a substantial portion of the Project with its own work force. If there are more than five (5) of these projects, only provide information on the most recent five (5) projects, including current projects.

Project And Work	Contract Sum	Owner's Representative & Telephone Number	Engineer's Or Architect's Representative Name & Telephone Number	Additional Comments

3.7.1. State average annual amount of construction work your organization has performed during the last five years.

3.7.2. If any of the following members of your organization's management -- president, chairman of the board, or any director -- operates or has operated another construction company during the last five (5) years, identify the member of management and the name of the construction company.

3.7.3. If your organization is operating under a trade name registration with the Secretary of State for the State of Ohio, identify the entity for which the trade name is registered. If none, state "none."

3.7.4. If your organization is a division or wholly-owned subsidiary of another entity or has another relationship with another entity, identify the entity of which it is a division or wholly-owned subsidiary or with which it has another relationship and also identify the nature of the relationship. If none, state "not applicable."

3.8. On a separate sheet, list the construction education, training, construction experience, and tenure with your organization for each person who will fill a management role on the Project, including without limitation the Project Executive, Project Engineer, Project Manager, and Project Superintendent. For each person listed, include with the other information the last three projects on which the person worked and the name and telephone number of the Design Professional and the Owner.

3.9. Describe the size and experience of your organization's work force and your equipment and facilities, in relation to your organization's ability to complete the Project successfully and on time.

4. REFERENCES

4.1. Trade References:

4.2. Bank References:

4.3. Surety:

4.3.1. Name of bonding company:

4.3.2. Name and address of agent:

5. FINANCING

5.1 Financial Statement **(May be required, but only post-bid. Not a requirement to provide with bid.)**

5.1.1 Attach a financial statement, preferably audited, including your organization's latest balance sheet and income statement showing the following items:

Current Assets (e.g., cash, joint venture accounts, accounts receivable, notes receivable, accrued income, deposits, materials inventory and prepaid expenses);

Net Fixed Assets;

Other Assets;

Current Liabilities (e.g., accounts payable, notes payable, accrued expenses, provision for income taxes, advances, accrued salaries and accrued payroll taxes); and

Other Liabilities (e.g., capital, capital stock, authorized and outstanding shares par values, earned surplus and retained earnings).

5.1.2 Name and address of firm preparing attached financial statement, and date thereof.

5.1.3 Is the attached financial statement for the identical organization named on page one?

5.1.4 If not, explain the relationship and financial responsibility of the organization whose financial statement is provided (e.g., parent-subsidiary).

5.2 Will the organization whose financial statement is attached act as guarantor of the contract for construction?

5.3 Attach additional documentation or explanations demonstrating your organization's financial responsibility, adequate resources and availability of credit, its means and ability to procure insurance and acceptable performance bonds required for the Project.

6. Does your organization participate in a drug-free workplace program? Provide your organization's record for both resolved and unresolved findings of the Auditor of the State of Ohio for recovery as defined in Section 9.24 of the Ohio Revised Code.

7. List any projects within the previous five years where a public entity determined that your organization was not a responsible bidder, including the name of the public entity, the reasons given by the public entity, and an explanation thereof.

8. Additional Criteria. Pursuant to the Codified Ordinance of the City of Canton, Chapter 105, the Owner, in its discretion, reserves the right to request additional information and documentation relating to the foregoing and related to any of the criteria listed in Paragraph I.6 of the Instructions to Bidders from Bidders after the bid opening. The Owner may consider such information and documentation in determining which bid is lowest and best. The Owner, in its discretion, may consider and give such weight to any and all criteria as it deems appropriate.

[left intentionally blank]

Certification. The undersigned certifies for the reliance of the Owner that after diligent investigation, to the best of the undersigned's belief, the information provided with this Contractor's Qualification Statement is true, accurate and not misleading.

SIGNATURE:

Dated this _____ day of _____ 20____.

Name of Organization: _____

By: _____
[print name]

Signature: _____

Title: _____

State of _____

County of _____

_____, being duly sworn, deposes and says that the information provided herein is true and sufficiently complete so as not to be misleading.

Subscribed and sworn before me this _____ day of _____ 20__.

_____
Notary Public

My Commission Expires:_____

SEAL

Modified General Conditions (EJCDC)
Please go to this link for the document or enter the following link into a web browser:

https://cantonohio.gov/DocumentCenter/View/594/Modified-Standard-General-Conditions-of-the-Construction-Contract---Where-Owner-Performs-Administrative-Duties-PDF

City of Canton Codified Ordinances

Bidders shall take notice that they are to comply with the Codified Ordinances of the City of Canton, including but not limited to, the following:

1. **Chapter 105.02 – Public Paving Time Restrictions.**
   All City public paving contracts shall include a provision for liquidated damages in order to provide the City reasonable compensation for actual damages due to a failure to ensure that asphalt paving take place on the City's road surfaces from May 1st to October 1st; and/or during optimal climatic conditions that are conducive to the best mix compacting and long term durability of the pavement, according to the highest and best practices of the asphalt paving industry.
   (Ord. 270-2014. Passed 12-29-14.)

2. **Chapter 105.03 – U.S. Steel Usage Required; Exception.**
   All City contracts shall stipulate or provide that all steel necessary in the construction of any work performed under such contracts shall be steel that is produced in the United States unless a specific product which is required is not produced by manufacturers in the United States in which event this prohibition does not apply. This section shall apply to only contracts awarded by the Board of Control of the City.
   (Ord. 224-77. Passed 6-27-77.)

3. **Chapter 105.05 – Materials to be Purchased Locally.**
   In all future contracts for the construction of buildings, structures, or other improvements under the Capital Improvement Budget, the following clause shall be printed or typewritten on each contract:
   It is the desire of the City of Canton that all materials used in the construction covered by this contract shall be purchased in the Canton area except such materials which are unavailable in the Canton area.
   (Res. 49-77. Passed 2-7-77.)

4. **Chapter 105.06 – Minority Contract Provision.**
   a. All contracts with the City shall include the following clause:
   The bidder agrees to expend at least $_____of the Contract in the event the contract is awarded to such bidder for minority/women's business enterprises. For purposes of this pledge, the term "minority/women's business enterprise" means a bona fide business established as a sole proprietorship, partnership or corporation owned, operated and controlled by one or more minority persons or women who have at least fifty-one percent (51%) ownership. "Minority" includes African Americans, Asian/Pacific Islanders, Hispanic/Latino Americans and Native American Indians. The minority or woman must have operational and managerial control, interest in capital, and earnings commensurate with the percentage of ownership. Minority/women's business enterprises may be employed as construction contractors, subcontractors, vendors or suppliers.
   (Ord.185-2011. Passed 10-31-11.)

5. **Chapter 105.12 – Local Bidder Preference.**
   a. The Board of Control, in determining the lowest and best bidder in the award of contracts to which this section is applicable, is authorized to award contracts to local bidders as hereinafter defined, whose bid is not more than five percent (5%) higher, subject to a maximum amount of twenty thousand dollars ($20,000.00), than the lowest dollar bid submitted by non-local bidders. The Board of Control's decision in making such an award shall be final.

   b. For purposes of this section, "local bidder" means an individual or business entity which at the time of the award of the contract has a headquarters, division, sales office,

sales outlet, manufacturing facility, or similar significant business-related location in Stark County, Ohio.

c. All contract specifications and/or bid documents that are distributed by Canton for the purpose of soliciting bids for goods and/or services shall contain the following notice: Prospective bidders will take notice that the City of Canton, in determining the lowest and best bidder in the award of this contract, may award a local bidder preference to any qualified bidder pursuant to Section 105.12 of the Codified Ordinances of the City of Canton. The determination of whether a bidder qualifies for the local preference shall be made by Board of Control. The Board's decision shall be final. A copy of Section 105.12 is attached.

d. This section shall be applicable to all contracts for equipment, goods, machinery, materials, supplies, vehicles and/or services, which are purchased, leased and/or constructed at a cost in excess of fifty thousand dollars ($50,000.00) and which require bidding pursuant to Ohio R.C. 735.05 through 735.09 and Ohio R.C. 737.03.

(Ord. 115-2018. Passed 5-14-18.)

6. Chapter 105.15 – City Income Tax

a. No person, partnership, corporation or unincorporated association may be awarded a contract with the City under Sections 105.09 or 105.10, unless the bidder is paid in full or is current and not otherwise delinquent in the payment of City income taxes, including any obligation to pay taxes withheld from employees under Section 182.05 and any payment on net profits under Section 182.06.

b. Falsification of any information related to or any post-contractual violation of the requirement to pay City income taxes set forth in subsection (a) shall constitute cause for the rescission of the balance of the contract at the City's discretion.

c. No partnership, corporation or unincorporated association which has as one of its partners, shareholders or owners a person who is a twenty percent (20%) or greater equity owner in such partnership, corporation or unincorporated association and who is delinquent in the payment of City income taxes as set forth in subsection (a), may be awarded a contract with the City under Sections 105.09 or 105.10.

d. A person who is a twenty percent (20%) or greater equity owner in any partnership, corporation or unincorporated association which is delinquent in the payment of City income taxes as set forth in subsection (a) may not be awarded a contract with the City under Sections 105.09 or 105.10.

e. A contract awarded under Sections 105.09 or 105.10 for a public improvement project, services other than personal or professional services, and personal or professional services shall not be binding or valid unless such contract contains the following provisions:

Said _____ hereby further agrees to withhold all City income taxes due or payable under Chapter 182 of the Codified Ordinances for wages, salaries, fees and commissions paid to its employees and further agrees that any of its subcontractors shall be required to agree to withhold any such City income taxes due for services performed under this contract. Furthermore, any person, firm or agency that has a contract or agreement with the City shall be subject to City income tax whether a resident or nonresident in the City, and whether the work being done is in the City or out

of the City. In addition to the tax withheld for employees, the net profits on the contract shall be subject to City income tax.
(Ord. 238-2015. Passed 11-30-15.)

7. Chapter 182.30 – Contract Provisions

a. No contract on behalf of the City under Sections 105.09 or 105.10 of the Codified Ordinances of Canton for a public improvement project, services other than personal or professional services, and personal or professional services shall be binding or valid unless such contract contains the following provisions:

Said _____ hereby further agrees to withhold all City income taxes due or payable under Chapter 182 of the Codified Ordinances for wages, salaries, fees and commissions paid to its employees and further agrees that any of its subcontractors shall be required to agree to withhold any such City income taxes due for services performed under this contract. Furthermore, any person, firm or agency that has a contract or agreement with the City shall be subject to City income tax whether a resident or nonresident in the City, and whether the work being done is in the City or out of the City. In addition to the tax withheld for employees, the net profits on the contract shall be subject to City income tax.

b. By entering into contract with the City of Canton _____ agrees with the City regarding the manner of withholding of City income taxes as provided in Section 718.011(F) of the Ohio Revised Code.

i. Municipal income tax withholding provisions of Sections 718.011(B)(1) and 718.011(D) ORC shall not apply to qualifying wages paid to employees for work done or services performed or rendered inside the City or on City property.

ii. _____ agrees to withhold income tax for the City from employees' qualifying wages earned inside the City or on City property, beginning with the first day of work done or services performed or rendered inside the City.

(Ord. 238-2015. Passed 11-30-15.)

8. Chapter 507.03 – Equal Employment Opportunity Clause.

b. During the performance of this contract, the contractor agrees as follows:

1. The contractor shall not discriminate against any employee or applicant for employment because of race, age, handicap, religion, color, sex, national origin, sexual orientation or gender identity. The contractor shall take affirmative action to insure that applicants are employed and that employees are treated during employment without regard to race, religion, color, sex, national origin, military status, sexual orientation or gender identity. As used herein, the word "treated" shall mean and include without limitation the following: recruited, whether by advertising or other means; compensation, whether in the form of rates or pay or other forms of compensation; selected for training, including apprenticeship; promoted; demoted; upgraded; downgraded; transferred; laid off; and terminated. The contractor agrees to and shall post in conspicuous places available to employees and applicants for employment notices to be provided by the contracting officers setting forth the provisions of this nondiscrimination clause.
2. The contractor shall, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to race, age, handicap, religion, color, sex, national origin, military status, sexual orientation or gender identity.

(Ord. 153-2012. Passed 9-24-12.)

3. The contractor shall send to each labor union or representative of workers, with which he has a collective bargaining agreement or other contract or

understanding, a notice advising the labor union or workers' representative of the contractor's commitments under the equal opportunity clause of the City; and he shall post copies of the notice in conspicuous places available to employees and applicants for employment.

4. The contractor shall submit in writing to the City his affirmative action plan, and each subcontractor and supplier of equipment or supplies shall submit to the general contractor his affirmative action plan. The responsibility for securing these affirmative action plans falls upon the general contractor and shall be on file at the office of the general contractor. The contractor shall furnish all information and reports required by the City or its representative pursuant to this chapter, and shall permit access to his books, records, and accounts by the contracting agency and by the Executive Secretary for purposes of investigation to ascertain compliance with the program.
5. The contractor shall take such action with respect to any subcontractor as the City may direct as a means of enforcing the provisions of this equal opportunity clause, including penalties and sanctions for noncompliance; provided, however, that in the event the contractor becomes involved in or is threatened with litigation as the result of such direction by the City, the City will enter into such litigation as is necessary to protect the interests of the City and to effectuate the City's equal opportunity program and, in the case of contracts receiving Federal assistance, the contractor or the City may request the United States to enter into such litigation to protect the interests of the United States.
6. The contractor shall file and shall cause his subcontractors, if any, to file compliance reports with the City in the form and to the extent prescribed by the City or its representative. Compliance reports filed at such times as directed shall contain information as to the employment practices, policies, programs and statistics of the contractor and his subcontractors.
7. The contractor shall include the provisions of this equal employment opportunity clause in every subcontract or purchase order, so that such provisions will be binding upon each subcontractor or vendor.
8. Refusal by the contractor or subcontractor to comply with any portion of this program as herein stated and described will subject the offending party to any or all of the following penalties:
   A. Withholding of all future payments under the involved public contract to the contractor in violation, until it is determined that the contractor or subcontractor is in compliance with the provisions of this contract.
   B. Refusal of all future bids for any public contract with the City or any of its departments or divisions, until such time as the contractor of subcontractor demonstrates that he has established and shall carry out the policies of the program as herein outlined.
   C. Cancellation of the public contract and declaration of forfeiture of the performance bond.
   D. In cases in which there is substantial or material violation or the threat of substantial or material violation of the compliance procedure or as may be provided by contract, appropriate proceedings may be brought to enforce these provisions, including the enjoining within applicable laws of contractors, subcontractors or other organizations, individuals or groups who prevent, directly or indirectly, or seek to prevent, directly or indirectly, compliance with the policy as herein outlined.

(Ord. 179-74. Passed 6-17-74.)

STATEMENT OF CLAIM FORM

Claim No. ___ for Contractor

1. Name of Contractor: _____

2. Date written claim given:_____.

3. Contractor's representative to contact regarding the claim:

   Name:_____ Title: _____
   Telephone No. _____ (office) FAX No. _____

   E-mail: _____

4. General description of claim:

_____
_____
_____

5. Contract Documents. If the claim is based upon any part or provision in the Contract Documents, including but not limited to pages in the Drawings and/or paragraphs in the Specifications, Owner-Contractor Agreement, General Conditions or Supplementary General Conditions, state upon which parts or provisions the claim is based:

_____
_____
_____

6. Delay claims:

   6.1 Date delay commenced: _____
   6.2 Duration of the delay: _____
   6.3 Apparent cause of the delay and part of critical path affected:

_____
_____
_____

   6.4 Impact of the delay and recommendations for minimizing such impact:

_____
_____
_____

7. Additional compensation. Set forth in detail all additional compensation to which the Contractor believes it is entitled with respect to this claim:

_____
_____
_____

8. Instructions for Completing the Statement of Claim Form ("Instructions"). The Instructions are incorporated in this Form.

9. Truth of Claim. By submitting this claim, the Contractor and its representative certify that after conscientious and thorough review and to the best of his or her knowledge and belief a) the Contractor has complied fully with the Instructions, b) the information in this State of Claim is accurate, c) the Contractor is entitled to recover the compensation in paragraph 7, and d) the Contractor has not knowingly presented a false or fraudulent claim. The Contractor by its authorized representative must acknowledge this Statement of Claim before a notary public.

CONTRACTOR: _____

By: _____

Name and Title:_____

Date: _____

CONTRACTOR'S ACKNOWLEDGMENT

State of _____,

County of _____, ss:

_____ first being sworn, states that after conscientious and thorough review, the statements made in attached Statement of Claim Form are complete and true to the best of his or her knowledge and belief.

_____

Sworn to before me a notary public by _____ on _____ __, 20__.

_____
Notary Public

WHEN COMPLETED, FORWARD A COPY OF THIS NOTICE AND STATEMENT OF CLAIM FORM TO THE OWNER AND ENGINEER.

1. Completing the Statement of Claim Form ("Claim Form") is a material term of the Contract. The Claim Form tells the Owner and Design Professional that the Contractor is making a Claim and that they need to act promptly to mitigate the effects of the occurrence giving rise to the Claim. The Claim Form also provides them with information so that they can mitigate such effects. The Contractor acknowledges that constructive knowledge of the conditions giving rise to the Claim through job meetings, correspondence, site observations, etc. is inadequate notice, because knowledge of these conditions does not tell the Owner and Engineer that the Contractor will be making a Claim and most often is incomplete.

2. If the space provided in the Claim Form is insufficient, the Contractor, as necessary to provide complete and detailed information, must attach pages to the Claim Form with the required information.

3. Paragraph 4. The Contractor must state what it wants, *i.e.*, time and/or compensation, and the reason why it is entitled to time and/or compensation.

4. Paragraph 5. The Contractor must identify the exact provisions of the Contract Documents it is relying on in making its Claim. For example, if the Claim is for a change in the scope of the Contractor's Work, the Contractor must identify the specific provisions of the Specifications, and the Plan sheets and details that provide the basis for the scope change.

5. Paragraph 6. This paragraph applies to delay claims, including delays that the Contractor believes result in constructive acceleration. The Contractor must identify the cause of the delay, party or parties responsible, and what the party did or did not do that caused the delay, *i.e.*, specific work activities. The Contractor acknowledges that general statements are not sufficient, and do not provide the Owner with sufficient information to exercise the remedies available to the Owner or to mitigate the effects of the delay.

   For example, if the Contractor claims a slow response time on submittals caused a delay, the Contractor must identify the specific submittals, all relevant dates, and then show on the applicable schedule, by circling or highlighting, the activities immediately affected by the delays. Also for example, if the Contractor claims it was delayed by another Contractor, the Contractor must identify the delaying Contractor, specifically what the delaying Contractor did or did not do that caused the delay, and then show the applicable schedule, by circling or highlighting, the activities immediately affected by the delays. Further by example, if the Contractor seeks an extension of time for unusually severe weather, the Contractor must submit comparative weather data along with a record of the actual weather at the job site and job site conditions.

6. Paragraph 6.4. Time is of the essence under the Contract Documents. If there is a delay, it is important to know what can be done to minimize the impact of the delay. It therefore is important that the Contractor provide specific recommendations on how to do so.

7. Paragraph 7. The Contractor must provide a specific and detailed breakdown of the additional compensation it seeks to recover. For future compensation, the Contractor shall provide its best estimate of such compensation.

8. Paragraph 8 and Acknowledgment. By submitting this Claim, the Contractor and its representative certify that after conscientious and thorough review and to the best of his or her knowledge and belief a) the Contractor has complied fully with the Instructions, b) the information in this Claim Form is accurate, c) the Contractor is entitled to recover the compensation in paragraph 7, and d) the Contractor has not knowingly presented a false or fraudulent claim. The Contractor by its authorized representative must acknowledge this Statement of Claim before a notary public.

End of Instructions

CONTRACTOR'S PERSONAL PROPERTY TAX AFFIDAVIT

(O.R.C. § 5719.042)

State of Ohio
County of _____, ss:

_____, being first duly sworn, deposes and says that he is the
(Name)

_____ of _____ with offices located at
(Title) (Contractor)

_____, and as its duly
(Address of Contractor)

authorized representative, states that effective this _____ day of _____, 20___,

_____
(Name of Contractor)

( ) is charged with delinquent personal property taxes on the general list of personal property as set forth below:

County	Amount (includes total amount due, plus penalties and interest thereon)
Stark	$_____

( ) is not charged with delinquent personal property taxes on the general list of personal property in Stark County.

_____

_____
(Affiant)

Sworn to and subscribed before me by the above-named affiant this _____ day of _____, 20__.

_____
(Notary Public)

My commission expires

_____, 20__

CONTRACTOR'S FINAL WAIVER & RELEASE AFFIDAVIT
("AFFIDAVIT")

Project: **Timken Pl/Clark Ave Connector Project, GP1313, PID 113895/PID 114049**

In consideration for payment received from the City of Canton (the "City") in the amount requested in Contractor's Final Application for Payment to the City, the receipt of which is hereby acknowledged, the undersigned Contractor hereby waives and releases any rights it has or may have to any and all types of claims relating to the Project, including without limitation claims of payment, Mechanic's Lien, stop notice, equitable lien, labor and material bond, breach of contract or unjust enrichment, or any other claim against the City, for any labor, materials, or equipment the undersigned may have delivered or provided to the Project, except for any Claims the undersigned has made by properly and timely submitting a Statement of Claim form. The undersigned further certifies that this Affidavit covers claims by all contractors, subcontractors, and suppliers who may have provided any labor, material, or equipment to the Project through the undersigned or at the undersigned's request. The undersigned acknowledges that all such contractors, subcontractors, sub-subcontractors and suppliers have signed an affidavit in the form of this Affidavit releasing any and all claims against the City, except for any Claims the undersigned has made by properly and timely submitting a written statement of its Claim. The undersigned hereby represents and warrants that it has paid any and all welfare, pension, vacation or other contributions required to be paid on account of the employment by the undersigned of any laborers on the Project.

This Affidavit is for the benefit of, and may be relied upon by the City. The undersigned hereby agrees to indemnify, defend and hold harmless each of the foregoing, the Project, work of improvement, and real property from any and all claims, or liens that are or should have been released in accordance with this Affidavit.

_____
Company Name

_____
Authorized Signature (Company Officer)

_____
Title

_____
Date

State of: _____ County of _____

Subscribed and sworn to before me this _____

day of _____

Notary Public: _____

My Commission Expires: _____

CITY OF CANTON

Timken Pl/Clark Ave Connector Project, GP1313, PID 113895/PID 114049 Project

PRE-BID SUBSTITUTION FORM

1. Note. Certain brands of material or apparatus are specified. Each bid will be based on these brands, which may be referred to in the Contract Documents as Standards. The use of another brand (referred to as a substitution or proposed equal in the Contract Documents, when a bidder or the contractor seeks to have a different brand of material or apparatus than that specified approved by the Owner for use in the Project) may be requested as provided in the Instructions to Bidders. Substitutions, however, unless approved and issued in an Addendum, will not be considered in determining which bidder to award the contract to.

2. The detailed procedures for submitting substitutions are set forth in Paragraph K of the Instructions to Bidders.

Specification Section	Brand or Name Specified	Proposed Substitution

ODOT MANUAL SUPPLEMENT

This Supplement shall apply where and to the extent that the State of Ohio Department of Transportation Construction and Material Specifications, in the current version as of January 1, 2019, is expressly incorporated into the Contract Documents via the Owner-Contractor Agreement, or when designated as a Contract Document in the list of Contract Documents in the Owner-Contractor Agreement, or is referenced anywhere else in the Contract Documents as one of the Contract Documents.

1. Regardless of any terms to the contrary in Division 100 or elsewhere, any directions or orders of the Engineer that will result in an adjustment of the Contract Price or the Contract Time shall require the prior written approval of the Owner. It is expressly understood and agreed that the Engineer does not have authority to authorize changes or modifications in the Contract Price or Contract Time.

2. The Contractor's obligations under this ODOT Supplement are in addition to and not in limitation of its other obligations under the Contract Documents.

3. Delays. Regardless of the terms in this ODOT Supplement, including Item 109.05, all time adjustments shall be subject to a) filing a Change Proposal and / or Claim in accordance with Articles 11 and 12 of the Modified Standard General Conditions of the Contract for Construction (EJCDC C-700, 2013 edition) ("Modified Standard General Conditions"), b) substantiating the Contractor's entitlement to a time adjustment in accordance with the Modified Standard General Conditions and c) Item 109.05. The Contractor will be entitled to additional compensation for delays but only for those delays described in the Modified Standard General Conditions. As part of the Claims process and as a condition precedent to receiving any additional compensation, the Contractor shall prepare a cost analysis as allowed by Item 109.05.D substantiating its entitlement to additional compensation.

4. Division 100, General Provisions. The following Division 100 General Provisions of the State of Ohio Department of Transportation, Construction Specifications Manual in the current version as of January 31, 2019, are incorporated in this ODOT Supplement, subject to any changes or limitations herein.

a. Item 101.01, General.

b. Item 101.02, Abbreviations, provided that references to DCA, DDD, DET, DGE shall mean the Owner.

c. Item 101.03, Definitions, provided where terms that are defined in the other Contract Documents, the definition in the other Contract Documents shall control, and further provided that the following definitions are deleted, modified and/or added:

i. Claims is deleted

ii. Contract Bond is deleted.

iii. Contract Documents is deleted.

iv. Contract Price is deleted.

v. Contract Time is deleted.

vi. Contractor is deleted.

vii. Department shall mean the Owner.

viii. Director shall mean the Owner's representative.

ix. Disputes is deleted.

x. Engineer is deleted.

xi. Extra Work Contract is deleted.

xii. Final Acceptance shall mean Final Completion as defined in the Owner Contractor Agreement.

xiii. Final Inspector shall mean the Owner.

xiv. Laboratory is deleted.

xv. Prebid Question is deleted.

xvi. Proposal Guaranty is deleted.

xvii. Questionnaire is deleted.

xviii. Shop Drawings is deleted.

xix. Signatures on Contract Documents is deleted.

xx. State or state shall mean the Owner.

xxi. Subcontractor is deleted.

xxii. Work is deleted.

d. Item 101.04, Interpretations.

e. Item 103.03, Cancellation of Award.

f. Item 104.02.D.2, Significant Changes in the Character of the Work (including Tables 104.02-1 and 104.02-2 following this Item), provided that all references to Item 108 and 109.12 are deleted and that all time adjustments shall be subject to filing a Change Proposal and / or Claim in accordance with the Modified Standard General Conditions and substantiating the entitlement to an extension of time as provided in the Modified Standard General Conditions (EJCDC Document C-700, 2013 edition) ("Modified Standard General Conditions").

g. Item 104.03, Rights in and Use of Materials Found on the Work.

h. Item 104.04, Cleaning Up.

i. Item 105.02, Plans and Working Drawings, provided that the review of submittals may be by the Owner or the Engineer in the Owner's discretion.

j. Item 105.06, Superintendent.

k. Item 105.10, Inspection of Work.

l. Item 105.11, Removal of Defective and Unauthorized Work.

m. Item 105.12, Load Restrictions.

n. Item 105.13, Haul Roads, provided that the second paragraph in this Item is deleted. The Contractor shall be responsible for any damage to the roads referred to in the second paragraph.

o. Item 105.14, Maintenance During Construction, except substitute "Final Completion" for "Final Inspector accepts the work under 109.12" and delete the remainder of the first sentence. Additionally, delete the second to last sentence in this Item.

p. Item 105.15, Failure to Maintain Roadway or Structure.

q. Item 105.16, Borrow and Waste Areas.

r. Item 105.17, Construction and Demolition Debris.

s. Item 106.01, Source of Supply and Quality Requirements.

t. Item 106.02, Samples, Tests and Cited Specifications, provided that this Item will be optional at the discretion of the Owner. If the Owner elects to proceed under this Item, a) the Contractor without additional cost will provide material samples as required by the Owner, and b) the Owner may conduct such tests as it determines proper.

u. Item 106.03, Small Quantities and Materials for Temporary Application.

v. Item 106.04, Plant Sampling and Testing Plan.

w. Item 106.05, Storage of Materials.

x. Item 106.06, Handling Materials.

y. Item 106.07, Unacceptable Materials, except substitute the word "unacceptance" in the third sentence with the word "unacceptable."

z. Item 106.08, Department-Furnished Material.

aa. Item 106.09, Steel and Iron Products Made in the United States.

bb. Item 107.01, Laws to be Observed.

cc. Item 107.02, Permits, Licenses, and Taxes.

dd. Item 107.03, Patented Devices, Materials, and Processes.

ee. Item 107.05, Federal-Aid Provisions.

ff. Item 107.06, Sanitary Provisions.

gg. Item 107.07, Public Convenience and Safety.

hh. Item 107.08, Bridges Over Navigable Waters.

ii. Item 107.09, Use of Explosives, provided that both bringing explosives onto the site and any use of explosives shall require the prior written approval of the Owner.

jj. Item 107.10, Protection and Restoration of Property, provided that the Contractor shall remain responsible for all damage and injury to property until the Project is Finally Complete, and all references to Items 109.11 and 109.12 are deleted.

kk. Item 107.11, Contractor's Use of the Project Right-of-Way or Other Department-Owned Property, provided the reference to Item 109.12 is deleted.

ll. Item 107.12, Responsibility for Damage Claims and Liability Insurance, provided that all notices and certificates shall be delivered to the Owner's representative and, if there is no Owner's representative, to the Engineer. Reference to the "State of Ohio, Department of Transportation" shall mean the Owner.

mm. Item 107.13, Reporting, Investigating, and Resolving Motorist Damage Claims, provided that this item is modified to read, "When a motorist reports damage to its vehicle either verbally or in writing to the Contractor, the Contractor shall within 3 days make and file a written report to the Owner and the Engineer and also file a report with its insurance carrier".

nn. Item 107.14 Opening Sections of Project to Traffic, provided that the reference to Item 108.06 is deleted.

oo. Item 107.15, Contractor's Responsibility for Work, provided that reference to "Final Inspection according to 109.12.A" shall mean "Final Completion." and all references to Item 108 are deleted.

pp. Item 107.17, Furnishing Right-of-Way.

qq. Item 107.19, Environmental Protection, provided that the Owner makes no representation as to having acquired any permits unless expressly provided in the Contract Documents. The Contractor will comply with any permits obtained by the Owner.

rr. Item 107.20, Civil Rights.

ss. Item 107.21, Prompt Payment.

tt. Item 108.01, Subletting of the Contract, provided that the Contractor need not provide the Owner with information or reports on DBE participation unless the Contract Documents otherwise require such reports or information. Additionally, unless otherwise provided in the Contract Documents, the 50% self-contracting requirement in the first sentence is waived.

uu. Item 108.04, Limitation of Operations.

vv. Item 108.05, Character of Workers, Methods, and Equipment.

ww. Item 108.10, Payroll Records.

xx. Item 109.01, Measurement of Quantities, provided that this item will apply only where payment is to be based on the measurement of quantities.

yy. Item 109.02, Measurement Units.

zz. Item 109.03, Scope of Payment.

aaa. (Reserved.)

bbb. Item 109.05, Extra Work as modified in this Supplement, provided that a) the references to Items 105.07, 105.10 and 108 are deleted, b) all negotiated prices shall require the Owner's written approval, c) the Owner must approve in writing any directions or orders by the Engineer to proceed with force account work, d) in Item 109.05.B.2 the reference to Department

shall mean the Ohio Department of Transportation, e) the compensation provided in 109.05.B through 109.05.D constitutes payment in full for all the items referred to in Items 109.05.C.1-10, except for any additional compensation for delays, f) the mark-ups provided in Items 109.05.D.2.b and 109.05.D.2.d are deleted, and g) Item 109.05.D.2.f regarding home office overhead is deleted. The Contractor's entitlement to home office overhead, if any, shall be subject to current Ohio law.

ccc. 109.06, Directed Acceleration.

ddd. (Reserved.)

eee. 109.08, Unrecoverable Costs.

5. Divisions 200 through 700. Divisions 200 through 700 of the State of Ohio Department of Transportation, Construction Specifications Manual in the current version as of January 31, 2019 are incorporated in this ODOT Supplement.

a. All references to Division 100 Items in Divisions 200 through 700 shall be to the Division 100 Items as modified in this Supplement.

b. Where Division 100 Items are referred to in Divisions 200 through 700 but are not included in this Supplement, the deleted references will be governed by this Paragraph 5.

c. In Item 203.04, the reference to Item 108.06 shall be governed by Paragraph 3, Delays, in this Supplement.

d. In Item 514.24, the reference to Item 109.10 shall be governed by the payment provisions in the Modified Standard General Conditions.

e. In Item 624.04, the reference to item 109.09 shall be governed by the payment provisions in the Modified Standard General Conditions, i.e., the Owner will process and make payments in accordance with the provisions in the Modified Standard General Conditions. In this regard, the basis for payment of mobilization costs will be as provided in Item 624.04.

f. General to Divisions 200 through 700. The basis for payment provided in the Basis for Payment items in these Divisions shall be the basis for payment to the Contractor when applicable.

END OF ODOT SUPPLEMENT

Appendix A: Project Labor Agreement (PLA)

Please be advised that the attached PLA is a sample PLA for informational purposes only. The actual PLA for the Timken Pl/Clark Ave. Connector Project, GP1313 is currently being prepared and will be presented to the apparent low bidder prior to contract award.

Appendix A

SAMPLE PLA

PROJECT LABOR AGREEMENT

FOR THE

SUGARCREEK LAGOONS DECHLORINATION BUILDING PROJECT

ENTERED INTO BETWEEN

CITY OF CANTON

AND

EAST CENTRAL OHIO BUILDING AND CONSTRUCTION

TRADES COUNCIL AFL-CIO

AND

SIGNATORY LOCAL UNIONS

Effective _____

CONTENTS

ARTICLE I

INTENT AND DURATION

Section 1. Intent And Duration. This Project Labor Agreement (the "Agreement") is entered into between the City of Canton (collectively the "Owner"); the East Central Ohio Building and Construction Trades Council, AFL-CIO ("ECOB & CTC" or "Council"); and the Signatory Unions (the "Unions"), and applies exclusively to the construction work within the scope of this Agreement to be performed on the Sugarcreek Lagoons Dechlorination Building Project (the "Project"). The purpose of this Agreement is to promote efficiency and cost-savings in the construction and refurbishment that is a part of the Project and to provide for the peaceful settlement of any and all labor disputes and grievances without strikes or lockouts, thereby promoting the public interest in assuring the timely and economical completion of the Project. This Agreement shall expire and be of no further force or effect upon the completion of the Project.

Upon execution of this Agreement by all parties, all construction, remodeling and renovation work covered by this Agreement on the Project shall be contracted exclusively to Contractors, of whatever tier, who agree to execute and be bound by the terms of this Agreement. The Unions agree that Contractors may execute the Agreement, or the Letter of Assent attached as Appendix I, for purposes of performing such work. The Owner (or its permitted designee) shall monitor compliance with this Agreement by all contractors and subcontractors. For purposes of the Agreement, the term "Contractor" shall be deemed to include all construction contractors and subcontractors of whatever tier engaged in on-site construction and renovation work on the Project. The Owner, the Unions and all signatory Contractors agree to abide by the terms and conditions contained in the Agreement. This Agreement represents the complete understanding of all parties, and no Contractor is or will be required to sign any other agreement with a signatory union as a condition of performing work coming within the scope of this Agreement. No practice, understanding or agreement between a Contractor and a Union, which conflicts with any provisions in this Agreement, will be binding on any other party unless endorsed in writing by the Owner.

Section 2. Limitation Of Agreement To Project. The Unions agree that this Agreement will be made available to, and will fully apply to, any successful bidder for

work on the Project, without regard to whether that successful bidder performs work at other sites on either a union or a non-union basis, and without regard to whether employees of such bidder are or are not members of any union. The Unions further agree that this Agreement applies only to this Project. Nothing in this agreement is intended to, or shall, interfere with, or negate, any existing contractual relationship or collective bargaining agreement between the Union and any contractor or subcontractor that may execute this Agreement.

ARTICLE II

PURPOSE

Section 1. Purpose. The Project Cost is fairly estimated to be $116,000.00. The Project will require the construction of a Building that will house a new dechlorination system and related equipment that will treat water from the City's main water supply system at Sugarcreek Lagoons. This is a significant construction project that must be commenced in the first quarter of 2021. This Agreement is necessary to secure and preserve the integrity of the City's water distribution system. The parties to this Agreement understand and acknowledge the Project is critical to the economic development of the City of Canton and to advancing the goals appearing in the City's Comprehensive Plan.

Section 2. Time Is Of The Essence. The parties to this Agreement understand and agree that time is of the essence for this Project. The parties understand and agree that timely completion of the Project will require the use of substantial numbers of employees from construction and supporting crafts possessing skills and qualifications that are essential to the Project. The Unions pledge that they have members who are competent, skilled, and qualified to perform the required construction work. The parties also understand that on-budget completion of the Project is most critical; it is therefore essential that construction work on the Project be done in an efficient, economical manner with optimum productivity and with no delays. In recognition of those special needs of the Project, the Unions signatory hereto and their members agree not to initiate, authorize, sanction, participate in or condone, or permit their members to engage in any strike, sympathy strike, jurisdictional strike, recognitional strike, slowdown, sabotage, work to rule, sickout, sit down, picketing of any type (including informational picketing), handbilling, boycott,

interruption of work or any disruptive activity that interferes with or interrupts in any way work on the Project or other operations of the City of Canton or its Water Department. Contractors agree not to engage in any lockouts.

ARTICLE III

BENEFITS OF THE AGREEMENT

Section 1. Benefits Of The Agreement. This Agreement is intended to foster the achievement of a timely and on-budget completion of the Project by, among other things:

(a) reducing and/or eliminating the tension and potential disagreements that might otherwise exist between Union and non-union workers on the Project;

(b) avoiding the costly delays of strikes, sympathy strikes, jurisdictional strikes, slowdowns, walkouts, picketing, handbilling and any other disruptions or interference with work, and promoting labor harmony and peace for the duration of the Project;

(c) standardizing terms and conditions governing the employment of labor on the Project;

(d) permitting flexibility in work scheduling and shift hours and times;

(e) achieving negotiated adjustments as to work rules and staffing requirements from those which otherwise might obtain;

(f) providing comprehensive and standardized mechanisms for the settlement of work disputes;

(g) ensuring a reliable source of skilled and experienced labor; and

(h) furthering public policy objectives, to the extent lawful, as to improved employment opportunities for minorities, women and the economically disadvantaged in the construction industry. Mindful of the economic condition and unemployment rate in Stark County, the Owner anticipates and expects that all construction workers and employees on this Project will be residents of Stark County. In view of the very technical and specialized work that is inherent in the construction industry, all parties acknowledge that this expectation by the Owner is a goal, not a mandate. To this end, all Contractors working under this Agreement pledge that they will make a good-faith effort to reach this goal expressed by the Owner.

that this expectation by the Owner is a goal, not a mandate. To this end, all Contractors working under this Agreement pledge that they will make a good-faith effort to reach this goal expressed by the Owner.

ARTICLE IV

SCOPE OF AGREEMENT

Section 1. The Work. This Agreement is specifically defined and limited to onsite construction and renovation work required to construct the Project.

Section 2. Exclusions From Scope. Items specifically excluded from the scope of this Agreement, even if performed in connection with the Project, include the following:

(a) Work of non-manual employees, including but not limited to, superintendents, supervisors, staff engineers, inspectors, quality control and quality assurance personnel, timekeepers, mail carriers, clerks, office workers, including messengers, guards, safety personnel, emergency medical and first aid technicians, and other professional, engineering, administrative, supervisory and management employees.

(b) Equipment and machinery owned or controlled and operated by the Owner.

(c) All off-site manufacture, fabrication or handling of materials, equipment or machinery (except at dedicated lay-down or storage areas and except as provided in Article IV, Section 9), and all deliveries of any type to and from the Project site (except on-site pouring of concrete).

(d) All employees of the Owner, the Construction Supervisor, design team or any environmental, engineering or other consultant when such employees do not perform labor coming within the scope of this Agreement.

(e) Any work performed on or near or leading to or onto the site of work on the Project and undertaken by state, county, city or other governmental bodies, or their contractors; or by public utilities or their contractors.

(f) Off-site maintenance of leased equipment and on-site supervision of all such maintenance work.

(g) Work by employees of a manufacturer or vendor necessary to maintain

the equipment is fully operational.

(h) Laboratory work for specialty testing or inspections not ordinarily done by the signatory local unions.

(i) All work done by employees of any State agency, authority or entity or employees of any municipality or other public employer.

The Unions agree that there shall be no interference with or disruption of work, of those contractors, employers, and employees exempted from coverage of this Agreement by subparagraph (a) through (i) above.

Section 3. Contract Award and Consent to Agreement.

(a) The Owner, and/or Contractors, as appropriate, have the absolute right to award contracts or subcontracts on the Project notwithstanding the existence or nonexistence of any agreements between such Contractor and any Union party provided only that such Contractor is willing, ready and able to execute and comply with this Agreement or a Letter of Assent thereto, should such Contractor be awarded work covered by this Agreement.

(b) All subcontractors of a Contractor, of whatever tier, who have been awarded contracts of work covered by this Agreement, on or after the effective date of this Agreement, shall also be required to accept and to be bound by the terms and conditions of this Agreement, and shall evidence their acceptance by the execution of this Agreement or a Letter of Assent thereto, prior to the commencement of work. A copy of this Agreement or Letter of Assent executed by each Contractor shall be immediately provided to the Union upon execution.

Section 4. Stand-Alone Agreement. This Agreement is a stand-alone Agreement. While this Agreement expressly does not incorporate any local area collective bargaining agreements, such local area collective bargaining agreements may be referenced for the limited purposes as hereinafter set forth in this Agreement. However, to the extent, if any, that any provisions of this Agreement conflict with any provision of a local area collective bargaining agreement, the provisions of this Agreement shall control, except for all work performed under the NTL Articles of Agreement, the National Stack/Chimney Agreement, the National Cooling Tower

Agreement, all instrument calibration work and loop checking shall be performed under the terms of the UA/IBEW Joint National Agreement for Instrument and Control Systems Technicians, and the National Agreement of the International Union of Elevator Constructors, with the exception of Articles VII, VIII and X of this Agreement, which shall apply to such work.

Section 5. Craft Jurisdiction. This Agreement shall recognize the traditional craft jurisdictions of the signatory unions. Any and all jurisdictional disputes shall be settled in accordance with Article VIII below. While this Agreement is a stand-alone Agreement, the Agreement will utilize the local area collective bargaining agreements of signatory locals, not state-wide agreements or other special project agreements, as a reference to define the signatory local unions' craft jurisdiction.

Section 6. Subcontracting. The Owner agrees that neither it nor any of its contractors or subcontractors will subcontract any work covered by this Agreement to be done on the Project except to a person, firm or corporation who is or agrees to become party to this Agreement. Any contractor or subcontractor working on the Project shall, as a condition to working on said Project, become signatory to and perform all work under the terms of this Agreement. Contractors who are signatory to local are collective bargaining agreements shall be bound by the terms of their respective local collective bargaining agreements on subcontracting to the extent such terms are consistent with Article IV, Section 2 of this Agreement. Disputes concerning compliance with such local subcontracting provisions for this Project shall be subject to all of the dispute resolution provisions of this Agreement.

Section 7. Liability. It is understood that the liability of the Contractor and the liability of the separate Unions under this Agreement shall be several and not joint. The Unions agree that this Agreement does not have the effect of creating any joint employer status between or among the Owner, Construction Supervisor and/or any Contractor, and neither the Owner nor Construction Supervisor shall assume any liabilities of the Contractors.

Section 8. Abatement of Agreement. As areas of covered work on the Project are accepted by the Owner, this Agreement shall have no further force or effect on such areas except where the Contractor is directed by the Owner to engage in repairs or punch list modifications.

Section 9. Miscellaneous. Notwithstanding any other provision of this Agreement, this Agreement applies and is limited to the recognized and accepted historical definition of demolition and new construction work under the direction of and performed by the contractor(s), of whatever tier, who have contracts awarded for such work on the project. Such work shall include site preparation work and dedicated off-site work except for the contractors and subcontractors specifically excluded in this Article II. Any off-site prefabrication of any building materials, systems and/or components traditionally performed on site shall be performed by the appropriate craft signatory to this Agreement and approved by the owner.

ARTICLE V

LABOR/MANAGEMENT COOPERATION

JOINT ADMINISTRATIVE COMMITTEE

Section 1. The parties to this Agreement shall establish a Project Joint Administrative Committee ("Committee"). This Committee will be a two-person committee comprised of one member each appointed by the Owner (or its designee) and the Unions, with an alternate appointee Union member available to replace the regular appointee when a problem or grievance concerns the regular appointee's Union. Each member of the Committee shall designate an alternate who shall serve in the absence of the member for any purpose contemplated by this Agreement.

Section 2. The Committee shall meet at least quarterly, or more often if special circumstances warrant, to discuss the administration of the Agreement, the progress of the Project, labor/management problems that may arise, and any other relevant matters. Any need for interpretation which might arise from the application of the terms and conditions of the Agreement shall be referred directly to the Committee for resolution.

ARTICLE VI

UNION RECOGNITION AND EMPLOYMENT

Section 1. Pre-Hire Recognition. Each Contractor and subcontractor recognizes the Unions as the sole and exclusive bargaining representatives of all craft and trade employees within their respective jurisdictions working on the Project under the Agreement.

Section 2. Contractor's Right of Selection. Each Contractor shall have the

right to determine the competency of all employees, the number of employees required and shall have the sole responsibility for selecting employees to be laid off. To the extent any training or vendor education is required to fill any position, said training shall be undertaken at no cost or expense to Owner.

Section 3. Union Referral. For local Unions having a job referral system, each Contractor agrees to comply with such system, and the referral system shall be used exclusively by such Contractor, except as modified by this Article. Such job referral system will be operated in a non-discriminatory manner and in full compliance with Federal, state, and local laws and regulations requiring equal employment opportunities and nondiscrimination, and referrals shall not be affected in any way by the rules, regulations, bylaws, constitutional provisions or any other aspects or obligations of union membership, policies or requirements. The Union shall indemnify and hold each Contractor harmless with respect to any claim arising out of how the Union operates and administers its referral system. All hiring procedures, including related practices affecting apprenticeship and training, will be operated so as to facilitate the ability of the contractors to meet any and all equal employment opportunity/affirmative action obligations. The Contractor may reject any referral and request another, different referral; provided, however, the Contractor shall furnish, upon request from the Union, a written explanation for the rejection.

Section 4. Lack of Job Referral System. In the event that a signatory Local Union does not have a job referral system as set forth in Section 3 above, the Contractor shall give the Union a forty-eight (48) hour opportunity to refer applicants. The Contractor shall notify the Union of employees hired from any source other than referral by the Union.

Section 5. Unavailability of Union Referrals. In the event that local Unions are unable to fill any requisitions for qualified employees within forty-eight hours (48) after such requisition is made by the Contractor (Saturdays, Sundays, and Holidays excepted), the Contractor may employ applicants from any other available source. The Contractor shall inform the Union of the name, address and telephone number of any applicants hired from other sources and refer the applicant for the Local Union for dispatch to the Project.

Section 6. Union Best Efforts. The Local Unions will exert their utmost efforts

to recruit sufficient numbers of skilled craft workers to fulfill the manpower requirements of each Contractor, including calls to local unions in other geographic areas when its referral lists have been exhausted. The parties to this Agreement support the development of increased numbers of skilled construction workers from the residents of the area of the Project. Toward that end, the Unions agree to encourage the referral and utilization, to the extent permitted by law and the hiring hall procedures, of qualified residents as journeymen, apprentices and trainees on the Project.

ARTICLE VII

GRIEVANCE ARBITRATION PROCEDURE

Section 1. This Agreement is intended to provide close cooperation between management and labor. Each of the Unions will assign a representative to this Project for the purpose of completing the construction of the Project economically, efficiently, continuously, and without interruptions, delays, or work stoppages.

Section 2. The Contractors, Unions, and the employees, collectively and individually, realize the importance to all parties to maintain continuous and uninterrupted performance of the work of the Project, and agree to resolve disputes in accordance with the grievance-arbitration provisions set forth in this Article.

Section 3. Any question or dispute arising out of and during the term of this Agreement (other than trade jurisdictional disputes) shall be considered a grievance and subject to resolution under the following procedures:

> **Step 1.** (a) When any employee subject to the provisions of this Agreement feels he or she is aggrieved by a violation of this Agreement, he or she, through his or her local union business representative or job steward, shall, within five (5) working days after the occurrence of the violation, give notice to the work-site representative of the involved Contractor stating the provision(s) alleged to have been violated. The business representative of the local union or the job steward and the work-site representative of the involved Contractor shall meet and endeavor to adjust the matter within three (3) working days after timely notice has been given. The representative of the Contractor shall keep the meeting

minutes and shall respond to the Union representative in writing at the conclusion of the meeting but not later than twenty-four (24) hours thereafter. If they fail to resolve the matter within the prescribed period, the Local Union may, within forty-eight (48) hours thereafter, pursue Step 2 of the Grievance Procedure, provided the grievance is reduced to writing, setting forth the relevant information concerning the alleged grievance, including a short description hereof, the date on which the grievance occurred, and the provisions of the Agreement alleged to have been violated.

(a) Should the Local Union(s) or the Project Contractor or any Contractor have a dispute with the other party and if, after conferring, a settlement is not reached within three (3) working days, the dispute may be reduced to writing and proceed to Step 2 in the same manner as outlined herein for the adjustment of an employee complaint.

Step 2. The International Union Representative and the involved Contractor shall meet within seven (7) working days of the referral of a dispute to this second step to arrive at a satisfactory settlement thereof. Meeting minutes shall be kept by the Contractor. If the parties fail to reach an agreement, the dispute may be appealed by the Union, in writing, in accordance with the provisions of Step 3.

Step 3. (a) If the grievance has been submitted but not adjusted under Step 2, either party may request in writing, within seven (7) calendar days thereafter, that the grievance be submitted to an Arbitrator mutually agreed upon by them. The Contractor and the involved Union shall attempt mutually to select an arbitrator, but if they are unable to do so, they shall request the Federal Mediation and Conciliation Services (FMCS) to provide them with a list of arbitrators from which the Arbitrator shall be selected. The rules of FMCS shall govern the conduct of the arbitration hearing. The decision of

the Arbitrator shall be final and binding on all parties. The fee and expenses of such Arbitration shall be borne equally be the Contractor and the involved Local Union(s).

Section 4. Failure of the grieving party to adhere to the time limits established herein shall render the grievance null and void. Failure of the Contractor to adhere to the time limits established herein shall result in the grievance being sustained. The time limits established herein may be extended only by written consent of the parties involved at the particular step where the extension is agreed upon. The Arbitrator shall have the authority to make decisions only on issues presented to him or her, and he or she shall not have authority to change, amend, add to or detract from any of the provisions of this Agreement.

Section 5. The Owner shall be notified of all actions at Steps 2 and 3 and shall, upon their request, be permitted to participate in all proceedings at these steps.

ARTICLE VIII

JURISDICTIONAL DISPUTES

Section 1. The assignment of work will be the responsibility of the Contractor performing the work involved and such work assignments will be in accordance with decisions issued under the Plan for the Settlement of Jurisdictional Disputes in the Construction Industry (the "Plan"), or any successor Plan, adopted by the National Building and Construction Trades Department.

Section 2. All jurisdictional disputes on this Project, between or among Building and Construction Trades Unions and employers, parties to this Agreement, shall be settled and adjusted according to the present Plan established by the Building and Construction Trades Department or any other plan or method of procedure that may be adopted in the future by the Building and Construction Trades Department. Decisions rendered shall be final, binding and conclusive on the Contractors and Unions parties to this Agreement.

Section 3. All jurisdictional disputes shall be resolved without the occurrence of any strike, work stoppage, or slow-down of any nature, and the Contractor's assignment shall be adhered to until the dispute is resolved. Individuals violating this section shall be subject to immediate discharge.

Section 4. Each Contractor will conduct a pre-job conference with the appropriate

Council prior to commencing work. The Owner will be advised in advance of all such conferences and may participate if they wish.

ARTICLE IX

MANAGEMENT'S RIGHTS

Section 1. Exclusive Owner - Workforce. Except as otherwise provided in this Agreement, the Owner (or its designee) and the Contractors retain the authority to manage their operations and workforces.

Section 2. Materials, Design, Machinery, Equipment. There shall be no limitation or restriction by a signatory Union upon a Contractor's choice of materials or design, nor, regardless of source or location, upon the full use and utilization of equipment, machinery packaging, pre-cast, pre-fabricated, pre-finish, or pre-assembled materials, tools or other labor saving devices. The on-site installation or application of all items shall be performed by the craft having jurisdiction of such work; provided, however, that installation of specialty items may be performed by employees employed under this Agreement who may be directed by other personnel in a supervisory role, in circumstances requiring special knowledge of the particular items.

Section 3. New Technology, Equipment. The use of new technology, equipment, machinery, tools and/or labor saving devices and methods of performing work may be initiated by any Contractor from time to time during the Project. The Union agrees that it will not in any way restrict the implementation of such new devices or work methods.

Section 4. Disputes. If there is any disagreement between any Contractor and the Union concerning the manner or implementation of such device or method of work, the implementation shall proceed as directed by the Contractor, and the Union shall have the right to grieve and/or arbitrate the dispute as set forth in Article VII of this Agreement.

ARTICLE X

WORK STOPPAGES

Section 1. No Strikes or Work Disruptions. There shall be no strike, sympathy strike, jurisdictional strike, recognitional strike, slowdown, sabotage, work to rule, sickout, sit down, picketing of any type (including informational picketing), handbilling, boycott, interruption of work or any disruptive activity that interferes with

or interrupts in any way work on the Project. The applicable local union shall not sanction, aid or abet, encourage or continue any work stoppage, strike, picketing or other disruptive activity which violates this Article and shall undertake all reasonable means to prevent or to terminate any such activity. No employee shall engage in activity which violates this Article. Any employee who participates in or encourages any activity which violates this Article shall be subject to disciplinary action, including discharge, and if justifiably discharged for the above reasons, shall not be eligible for rehire on the same project for a period of not less than ninety (90) days. Further, if the Local Union is unable to provide qualified replacements for those employees who are in violation of this Article by the beginning of the next shift, the Employer is free to hire from any source.

Section 2. Union Responsibilities. The Local Union shall not be liable for acts of employees for which it has no responsibility. The principal officers of the Local Union will immediately instruct, order and use their best efforts to cause the members of the Local Union they represent to cease any violations of this Article. If it complies with this obligation, the Local Union shall not be responsible for unauthorized acts of employees it represents.

ARTICLE XI

WAGES AND BENEFITS

Section 1. Wages. All employees covered by this Agreement shall be classified in accordance with work performed and paid 100% of the wages and 100% of the fringe benefits as established in the respective Union's Local Area Collective Bargaining Agreement and any subsequent modifications thereto. The Contractor, upon request, shall provide the Unions and Owner with substantiation that wages and benefits are being paid on the Project. The Unions shall provide the Owner, and any Contractor or subcontractor that is party to this Agreement, with wage, fringe benefit and dues reporting forms.

Section 2. Payment of Benefits/Contributions. Each Contractor will also pay all required contributions in the amounts required by Section 1 of this Article to the established employee benefit funds that accrue to the direct benefit of the employees (such as pension and annuity, health and welfare, vacation, apprenticeship, training funds). With respect to contributions required in this Section to Employer-Union jointly

trusted funds, the Contractor adopts and agrees to be bound by the written terms of the legally established trust agreement specifying the detailed basis on which payments are to be made into, and benefits paid out of, such Trust Funds. The Contractor authorizes the parties to such Trust Funds to appoint Trustees and successor Trustees to administer the Trust Funds and hereby ratifies and accepts the Trustees so appointed as if made by Contractor.

Section 3. Non-Affiliated Labor Organizations. The Contractor shall deduct from each employee's wages all uniform dues and working assessments the employee has voluntarily authorized in writing as set forth in the Employee's Local Collective Bargaining Agreement. If a labor organization is not affiliated with the Council, and supplies its members or referrals for work on the Project, such labor organization shall pay to the Council the dues and assessments it would owe the Council if affiliated, for all periods during which the labor organization has members or referrals working on the Project. Any disputes under this paragraph shall be resolved exclusively between the labor organization and the Council by using the grievance procedure appearing in Article VII, as provided herein. All grievances shall be reduced to writing within thirty (30) days of the date on which the aggrieved party discovered the dispute. The grievance shall be initiated at Article VII, Section 3, Step 3.

ARTICLE XII
LOCAL UNION NEGOTIATIONS DURING THE PENDENCY OF THE AGREEMENT

Section 1. All parties to this Agreement understand and acknowledge that some crafts who will be working on the Project are covered by local collective bargaining agreements that will expire prior to the projected completion of the Project. All parties understand and agree that irrespective of whether such local collective bargaining agreement negotiations are successful or unsuccessful, there shall be no strike, sympathy strike, jurisdictional strike, recognitional strike, slowdown, sabotage, work to rule, sickout, sit down, picketing of any type (including informational picketing), handbilling, boycott, interruption of work or any disruptive activity that interferes with or interrupts in any way work on the Project by any Union involved in such local negotiations, or by any of its members, nor shall there be any lockout by a Contractor on

the Project affecting such union or its members during the course of such negotiations. Irrespective of the status of any such local collective bargaining agreement negotiations, the affected Union and all of its members will observe and fully comply with the provisions of this Agreement. Should any Local Union fail or refuse to provide and/or refer qualified employees for work on the Project during an economic strike, any affected Contractor shall be permitted to utilize the procedures appearing in Article VI, Section 5 of this Agreement.

Section 2. Wage/Benefit Increases. Should a craft covered by this Agreement negotiate an increase in wages or an increase in benefits with any Contractor to become effective during the term of the Project, those wage and/or benefit increases shall be paid by the affected Contractor, as of the effective date of those increases, to those employees in that craft performing work covered by this Agreement.

ARTICLE XIII

HOURS OF WORK, OVERTIME, SHIFTS AND HOLIDAY

Section 1. Work Day and Work Week. Except as provided in Section 4, the first shift shall consist of eight (8) or ten (10) hours per day between the hours of 6:00 a.m. and 5:30 p.m., plus one-half (1/2) hour unpaid for lunch, approximately mid-way through the shift. Forty (40) hours per week shall constitute a regular week's work, whether consisting of five (5) eight (8) eight hours days, or four (4) ten (10) hour days. The work week will start on Monday and conclude on Sunday. A uniform starting time will be established for all crafts on each project or segment of the work. Nothing herein shall be construed as guaranteeing any employee eight (8) or ten (10) hours per day or forty (40) hours per week. The Union(s) shall be informed of the work starting time set by the contractor at the pre job conference which may be changed thereafter upon three (3) days' notice to the Union(s) and the employees. A second shift, if used, shall consist of eight hours between 3:00 p.m. and 1:00 a.m.; a third shift, if used, shall begin between 10:00 p.m. and 1:00 a.m. For purposes of Section 3, the third shift shall be considered as part of the prior day's work.

Section 2. Starting Times. Employees shall be at their place of work at the starting time and shall remain at their place of work (as designated by the Contractor) performing their assigned functions until quitting time, which is defined as the scheduled end of the shift. The parties reaffirm their policy of a fair day's work for a fair

day's wage. There shall be no pay for time not worked unless the employee is otherwise engaged at the direction of the Contractor.

Section 3. Overtime. Overtime shall be defined as all hours worked in excess of forty (40) hours in a work week or, for 8 hour shifts, in excess of eight (8) hours per day; or for 10 (ten) hour shifts for work in excess of 10 hours per day; such work and work performed on Saturdays shall be paid at one and one-half times the straight time rate of pay. However, in scheduled four (4) day/ten hour shift work weeks, Friday may be scheduled as a "makeup" day at straight time to make up for a day lost (Monday through Thursday) due to inclement weather. In addition, if a "make-up" day is scheduled, all employees directed to work on such day will be guaranteed a minimum of four (4) hours work or pay. In any week in which employees on the Project are scheduled on four/ten hour shifts, an employee whose first day of work on the Project begins on Wednesday or later day of the schedule shall be paid, during the first week of his employment only, time-and-one-half for all hours worked in excess of eight in a day or each day he works during said week. Work on Sundays and holidays shall be at double time. There shall be no restriction on any contractor's scheduling of overtime or the non-discriminatory designation of employees who will work. The contractor shall have the right to schedule work so as to minimize overtime. There shall be no pyramiding of overtime pay under any circumstances.

Section 4. Shifts.

(a) Shift work may be performed at the option of the Contractor(s) upon three (3) days' prior notice to the Union and shall continue for a period of not less than five (5) working days. Saturdays and Sundays, if worked, may be used for establishing the five (5) day minimum work shift. If two shifts are worked, each shall consist of eight (8) hours of continuous work exclusive of a one--half (½) hour non-paid lunch period. Any third shift shall consist of seven (7) hours of continuous work exclusive of one-half (½) hour non-paid lunch period for eight (8) hours pay. A premium of $.25 per hour shall be paid for work on the second shift and $.50 per hour for work on the third shift.

(b) The Contractor may establish a work week of four (4) consecutive ten (10) hour work days (exclusive of one-half (½) hour unpaid lunch, approximately midway through the shift) between Monday through Thursday.

Section 5. Minimum Pay. An employee who reports for work at the regular starting time and for whom no work is provided shall receive pay equivalent to two (2) hours at the applicable hourly rate, provided the employee at the employer's discretion remains available for work. Any employee who reports for work and for whom work is provided shall be paid for actual time worked but not less than two (2) hours. It will not be a violation of this agreement when the employer considers it necessary to shut down to avoid the possible loss of human life, because of an emergency situation that could endanger the life and safety of an employee. In such cases, employees will be compensated only for the actual time worked. In the case of a situation described above where the employer requests employees to remain available for work, the employees will be compensation for such time. If a project is shut down because of weather, employees, who report for work, shall be paid actual time worked but not less than two (2) hours. Procedures for prior notification of work cancellation shall be determined at the pre-job conference. The provisions of this section are not applicable where the employee voluntarily quits or lays off.

Section 6. Holidays. Holidays shall be New Year's Day, Good Friday, Memorial Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving Day, the Day after Thanksgiving Day, and Christmas Day. A holiday falling on Saturday shall be observed on the preceding Friday. A holiday falling on Sunday shall be observed on the following Monday.

Section 7. Meal Period. The Contractor will schedule a meal period of not more than one-half hour duration at the work location at approximately the mid-point of the scheduled work shift (4 hours in a five day work week, 5 hours in a four-day work week), consistent with Section 1; provided, however, that the Contractor may, for efficiency of the operation, establish a schedule which coordinates the meal periods of two or more crafts. If an employee is required to work through his meal period, he shall be compensated for the time worked at the applicable overtime rate and the employee shall, when work permits, eat his lunch "on the fly".

Section 8. No Organized Work Breaks. There will be one (1) break during the first four (4) hours of a shift which shall be taken at the employee's work station. Individual nonalcoholic beverage containers will be permitted at the employee's work station.

Section 9. Helmets to Hardhats.

(a) The Employers and the Unions recognize a desire to facilitate the entry into the building and construction trades of veterans who are interested in careers in*the building and construction industry. The Employers and Unions agree to utilize the services of the Center for Military Recruitment, Assessment and Veterans Employment (hereinafter "Center") and the Center's "Helmets to Hardhats" program to serve as a resource for preliminary orientation, assessment of construction aptitude, referral to apprenticeship programs or hiring halls, counseling and mentoring, support network, employment opportunities and other needs as identified by the parties.

(b) The Unions and Employers agree to coordinate with the Center to create and maintain an integrated database of veterans interested in working on this Project and of apprenticeship and employment opportunities for this Project. To the extent permitted by law, the Unions will give credit to such veterans for bona fide, provable past experience.

ARTICLE XIV

APPRENTICES

Section 1. Need For. The parties recognize the need to maintain continuing support of programs designed to develop adequate numbers of competent workers in the construction industry. The Contractor(s) will, accordingly, employ apprentices in their respective crafts to perform work on the Project in accordance with Section 2 below.

Section 2. Ratios. The Union agrees to cooperate with the Contractor in furnishing qualified apprentices as requested and if available. Apprentices shall perform the work of their craft in accordance with the ratios and terms in their local area collective bargaining agreements. To the extent requested by Owner, the Contractor(s) may use the maximum number of apprentices permitted by local collective bargaining agreements.

ARTICLE XV

DRUG AND ALCOHOL POLICY

Section 1. Drug and Alcohol Policy. All parties understand and agree that a

drug and alcohol policy, approved by the Council, will be in force for all work performed under the Agreement. The drug and alcohol policy will prohibit the use, sale, transfer, purchase and/or possession of a controlled substance, alcohol and/or firearms while on the Project's premises and will require testing of employees. The drug and alcohol policy, attached hereto as Appendix 2, is incorporated into and made part of this Agreement and is implemented for all Contractors and employees working on the Project.

ARTICLE XVI

NON-DISCRIMINATION

Section 1. Policy. It is the continuing policy of the Owner, the Contractors and the Unions that the provisions of this Agreement shall be applied without discrimination because of age, race, sex, color, religion, creed, national origin, sexual orientation or any other basis prohibited by applicable law.

ARTICLE XVII

SOLE AND COMPLETE AGREEMENT

Section 1. The parties agree that this Agreement constitutes the sole and complete agreement between them governing the rates of pay and working conditions of the construction employees working on the Project. This Agreement settles all demands and issues on the matters subject to collective bargaining and shall not be modified or supplemented in any way except by written agreement executed by the Owner and all parties.

ARTICLE XVIII

SEPARABILITY AND SAVINGS CLAUSE

Section 1. Intent of Parties. If any article or section of this Agreement shall be held invalid by law or by a tribunal of competent jurisdiction, or if compliance with or enforcement of any article should be restrained pending a final determination as to its validity, the remainder of this Agreement shall not be affected and shall remain in full force and effect. In the event that any article or section is held invalid, the parties hereto shall, upon the request of the Unions, enter into collective bargaining negotiations for the purpose of arriving at a mutually satisfactory replacement for such article during the period of invalidity or restraint. If the Owner and the Council cannot agree on a mutually satisfactory replacement, either party shall be permitted to submit its demand to formal interest arbitration under the Rules of Federal Mediation and Conciliation

Service.

Section 2. Force of Agreement. The parties recognize the right of the Owner to withdraw, at its absolute discretion, the utilization of this Agreement as part of any bid specification should a court of competent jurisdiction issue any order which could result, temporarily or permanently, in a delay of the bidding, awarding, and/or construction work on the Project. Notwithstanding such an action by the Owner, or such court order, the parties agree that the Agreement shall remain in full force and effect on the Project, to the maximum extent legally possible. It is hereby agreed that this Agreement covers all of the signatory local unions listed below.

Section 3. Delegation. The Owner, in its sole and absolute discretion has the right to delegate its duties hereunder to a representative and/or designee who may be either an employee of Owner or a third party with whom Owner has contracted for contractor services.

OWNER
CITY OF CANTON

_____

_____

EAST CENTRAL OHIO BUILDING & CONSTRUCTION TRADES COUNCIL, AFL-CIO

Dave Kuvin

PRESIDENT

APPROVED AS TO FORM

_____
CITY OF CANTON
DIRECTOR OF LAW

BOILERMAKERS LOCAL NO. 744

By: _____

Name: _____

Title: _____

Date: _____

BRICKLAYERS LOCAL 6

By: Justin M. G

Name: Justin M. Gartrell

Title: Field Rep.

Date: 1-19-21

ELECTRICIANS LOCAL NO. 540

By: A M B

Name: AARON M. BROWN

Title: BUSINESS MANAGER

Date: 1/8/2021

OWNER
CITY OF CANTON

Director of Public Service

APPROVED AS TO FORM px

CITY OF CANTON
DIRECTOR OF LAW

EAST CENTRAL OHIO BUILDING & CONSTRUCTION TRADES COUNCIL, AFL-CIO

BOILERMAKERS LOCAL NO. 744

By:

Name: MARTIN D. MAHON

Title: BUSINESS MANAGER

Date: 12·28·2020

BRICKLAYERS LOCAL 6

By:

Name:

Title:

Date:

ELECTRICIANS LOCAL NO. 540

By:

Name:

Title:

Date:

GENERAL TRUCK DRIVERS & HELPERS UNION LOCAL NO. 92

By: _____

Name: Warren Brustoski

Title: B.A.

Date: 1-14-21

GLAZIERS LOCAL NO. 1162

By: _____

Name: _____

Title: _____

Date: _____

HEAT & FROST INSULATORS AND ALLIED WORKERS LOCAL NO. 84

By: _____

Name: Damon Wrobel

Title: Business Manager

Date: 01/11/2021

INDIANA/KENTUCKY/OHIO REGIONAL COUNCIL OF CARPENTERS

By: _____

Name: Kevin M. Ennis II

Title: Senior Representative

Date: 1-8-21

IRONWORKERS LOCAL NO. 550

By: _____

Name: William V. Sherer II

Title: Business Manager

Date: 1-8-21

LABORERS LOCAL NO. 1015

By: _____

Name: Jake Croston Jr

Title: Business Manager

Date: 1/27/21

MILLWRIGHT PILEDRIVER LOCAL NO. 1090

By: _____

Name: Kevin M. Ennis II

Title: Senior Representative

Date: 1-8-21

OPERATIVE PLASTERERS' AND CEMENT MASONS LOCAL NO. 109

By: _____

Name: Greg Daniels

Title: BM/FS

Date: 1-12-2021

PAINTERS LOCAL NO. 603

By: _____

Name: _____

Title: _____

Date: _____

PLUMBERS, PIPEFITTERS AND REFRIGERATION LOCAL NO. 94

By: Dave Kirven

Name: Dave Kirven DAVE KIRVEN

Title: BUSINESS MANAGER

Date: 1/11/2021

ROOFERS, LOCAL UNION NO. 88

By: Barbara A. Dixon

Name: BARBARA A. DIXON

Title: BUSINESS MANAGER

Date: 1-8-2021

SHEET METAL WORKERS LOCAL NO. 33

By:

Name: GERRY DURIEUX

Title: BUSINESS AGENT

Date: 1/11/2021

SPRINKLER FITTERS LOCAL NO. 669

By:_____

Name:_____

Title:_____

Date: _____

APPENDIX 1

LETTER OF ASSENT TO THE PROJECT LABOR AGREEMENT

FOR THE SUGARCREEK LAGOONS DECHLORINATION BUILDING PROJECT

Pursuant to Article I, Section 1 of the Project Labor Agreement (the "Agreement") for the Sugarcreek Lagoons Dechlorination Building Project (the "Project"), the undersigned party hereby agrees that it will comply with and be bound by all of the terms and conditions of the Agreement and agrees to all approved amendments or revisions thereto.

This Letter of Assent shall ONLY apply to the above-referenced Project and shall remain in effect for the duration of the above-referenced Project, after which this understanding will automatically terminate without further notice.

For the Contractor (or Subcontractor of whatever tier):

Name of Contractor/Subcontractor: _____

Name and Signature of Authorized Person:

(Print Name) _____

(Title) _____

(Signature) _____

(Phone #) _____

(Date) _____

APPENDIX 2

EMPLOYEE DRUG AND ALCOHOL TESTING POLICY

SPECIFICATIONS

The Owner is committed to providing a safe workplace for the workers assigned the Project, promoting high standards of employment health, and fostering productivity that satisfies its quality expectations. Consistent with the intent and spirit of this commitment, the Owner and ECOB & CTC have established a substance abuse testing specification for the Project with the goal of maintaining a work environment that is free from the effects of the use of illegal drugs and alcohol. The Owner will implement the terms of this policy.

This specification is not intended as a substitute for the Contractors' complete written substance abuse policy. Normally, such policies include other important features, including, but not limited to, an employee education and awareness Program, a supervisor training program and an employee assistance program.

The policy for this Project requires that any construction employee entering the project site will comply with the substance abuse testing requirements as outlined in this section. The Owner reserves the right to amend this specification upon written notice to the Contractor and the Unions on the Project. The parties to this agreement shall recognize the Drug Free Work Site Program as implemented through participating Unions and/or Contractors as administered by the contractor, or for contractors who are not signatory to agreements with signatory unions belonging to ECOB & CTC, and their core employees, an equivalent program that meets the specifications, contractual requirements, and testing requirements as set forth in this Appendix 1.

CONTRACTUAL REQUIREMENTS

All Contractors must have and enforce a written Substance Abuse Program incorporating the testing requirements, term, and conditions set forth in this specification. This specification is applicable to all employees, current and prospective, in order to be eligible to perform work at the Project. The Contractors must comply with the specification. Supplies, vendors, and visitors are subject to confirmation of their abstinence from the possession or use of substances indicated in this specification. A copy of each contractor's substance abuse program must be

submitted to the Owner for approval prior to commencement of any work on the Project site.

The substance abuse program must apply to all employees working on the Project and subcontractors' of any of tier working on the Project site. This includes workers, new hires, replacement workers, and supervisory personnel. No employee or prospective employee of a Contractor shall be permitted to work on the Project site unless such employee has submitted to testing by this specification and unless the results of such testing are negative as hereinafter defined. The Contractor must provide the Owner with a Monthly Summary Report of the Substance Abuse Program compliance.

All Contractors must train their respective employees in methods that will allow them to recognize substance abusers. Supervisory Employees of the Owner or its subcontractor shall be trained to take action, and to confront a substance abuser in a manner consistent with generally accepted safety-training procedures.

The cost of implementing the Substance Abuse program shall be borne by each respective Contractor affected by this specification.

Suppliers, vendors, and visitors must become signatory to the terms of this specification and their abstinence from substance abuse, and their continued avoidance of violations of the specification at the project site. Furthermore, in the event of an incident and/or accident occurrences involving suppliers, vendors, and/or visitors, the same agrees to submit to the substance abuse testing when requested. Refusal to comply would be grounds to have the supplier, vendor, or visitor permanently barred from the Project site by regulators.

TESTING REQUIREMENTS

The Project requires:

- Post-offer/Pre-engagement drug and alcohol testing.
- Testing for reasonable suspicion of illegal drug use or alcohol use.
- Post accident and post incident drug and alcohol testing upon reasonable suspicion.
- Drug testing following discovery of illegal or unauthorized drugs or paraphernalia as creating reasonable suspicion.

All Prime Contractors must perform post-offer/pre-engagement, and post

accident/incident testing upon reasonable suspicion, as follows:

a. All drug testing must be conducted by a National Institute of Drug Abuse (NIDA) certified laboratory with test results interpreted by a licensed medical review officer (MRO).
b. The initial screen tests for alcohol shall be performed by using either a saliva test or breathalyzer test comparable to the type used by state or local law enforcement officials. Furthermore, alcohol confirmatory tests shall be performed by using either blood alcohol test or a Breathalyzer test comparable to the type used by state or local law enforcement officials.
c. Evidence of the negative test results of individual employees required by this specification shall be furnished to the Owner prior to the commencement of work by the individual employee and promptly after performance of any subsequent testing required by this specification. Acceptable negative test result format.
    - A certificate signed by the testing laboratory, setting forth the nature and results of performed; or
    - An identification card signed by the respective Prime Contractor and issued to the individual employee, setting forth as reported on a certificate issued by the testing laboratory. The name of the testing laboratory shall also appear on the identification card; provided the affected employee authorizes the issuance of such identification card.

COMPLIANCE PROCEDURE

The Owner reserves the right to audit any substance abuse program required by this specification to verify compliance results within twenty-four (24) hours of notification of the intent to audit. The Owner shall have free right of access to all relevant records of the Prime Contractor and their subcontractors and supplies for this purpose, provided such record disclosures are within the scope of the States guidelines pertaining to confidentiality of employee records.

The Contractor's pre-engagement employees who receive a positive test result shall immediately leave the Project Site. Transportation of employees receiving the positive test result is the direct responsibility of the employing Prime Contractor, including employees of its subcontractors. Furthermore, pre-engagement employees

receiving a positive test shall not be permitted to return to the Project Site earlier than 90 days from the date of the positive test. At this time the employee may begin the process outlined by this specification again.

DEFINITIONS/ CONFIDENTIALITY/RULES- DISCIPLINARY ACTIONS- GRIEVANCE PROCEDURES

1. DEFINITIONS:

   (a) Company Premises - the term "Company Premises" as used in this policy includes all property, facilities, land, building, structures, automobiles, trucks and other vehicles owned, leased or used by the Contractor on the Project. Construction job sites for which the Contractor has responsibility are included.

   (b) Prohibited Items & Substances - Prohibited substances include illegal drugs (including controlled substances, look alike drugs and designer drugs, alcoholic beverages, and drug paraphernalia in the possession of or being used by an employee on the job.

   (c) Employee - Individuals, who perform work for the Contractor, including, but not limited to management, supervision, engineering, craft workers and clerical personnel.

   (d) Accident - Any event resulting in injury to a person or property to which an employee, or contractor/contractor's employee, contributed as a direct or indirect cause.

   (e) Incident - An event which has all the attributes of an accident, except that no harm was caused to person or property.

   (f) Reasonable Cause - Reasonable cause shall be defined as tardiness, excessive absenteeism, and erratic behavior such as noticeable imbalance, incoherence, and disorientation.

2. CONFIDENTIALITY

   (a) All parties to this policy and program have only the interests of employees in mind; therefore, encourage any employee with a substance abuse problem to come forward and voluntarily accept our assistance in dealing with the illness. An employee assistance program will provide guidance and direction for you during your recovery period. If you volunteer for help, the Contractor

will make every reasonable effort to return you to work upon your recovery. The Contractor will also take action to assure that your illness is handled in a confidential manner.

(b) All actions taken under this policy and program will be confidential and disclosed only to those with a "need to know."

(c) When a test is required, the specimen will be identified with a code number, not by name, to insure confidentiality of the donor. Each specimen container will be properly label and made tamper proof. The donor must witness this procedure.

(d) Unless an initial positive result is confirmed as positive, it shall be deemed negative and reported by the laboratory as such.

(e) The handling and transportation of each specimen will be properly documented through the strict chain of custody procedures.

3. RULES - all employees must report to work in a physical condition that will enable them to perform their jobs in a safe and efficient manner. Employees shall not:

(a) Use, possess, dispense or receive prohibited substances on or at the Project job site; or

(b) Report to work at or on the Project with any measurable amount of prohibited substances in their system.

4. DISCIPLINE - When the Contractor has reasonable cause to believe an employee is under the influence of a prohibited substance, for reasons of safety, the employee may be suspended until test results are available. If no test results are received after three (3) working days, the employee, if available, shall return to work with back pay. If the test results prove negative, the employee shall be reinstated with back pay. In all other cases:

(a) Applicants testing positive for drug use will not be hired.

(b) Employees who have not voluntarily come forward, and who test positive for a drug use, will be terminated.

(c) Employees who refuse to cooperate with testing procedures will be terminated.

(d) Employees found in possession of drugs or drug paraphernalia will be terminated.

(e) Employees found under the influence of alcohol while on duty, or while operating a company vehicle, will be subject to termination.

5. PRESCRIPTION DRUGS - Employees using a prescribed medication which, in their physician's opinion, may impair the performance of their duties, either mental or motor functions, must immediately inform the supervisor of such prescription drug use if instructed by their physician to do so. For the safety of all employees, the Contractor will consult with you and your physician to determine if a reassignment of duties is necessary. The Contractor will attempt to accommodate your needs by making an appropriate reassignment. However, if a reassignment is not possible, you will be placed on temporary medical leave until released as fit for duty by the prescribing physician.

Appendix B

Prevailing Wage Requirements and Rates

Overview

This project will utilize Ohio Prevailing Wage Rates. All contractors and subcontractors are required to comply with all Prevailing Wage Requirements in the Ohio Revised Code. These requirements are outlined below and sample documents are contained in the following pages and will be utilized to comply with these requirements. **Please note that the City of Canton will withhold payroll and/or retainage for a pay application or for the project in total until all prevailing wage issues are resolved.**

Payroll Dates Form

Must be submitted to the Prevailing Wage Coordinator (PWC) on or before the date your company starts work under the contract. It is to be completed with the **actual payroll dates** and not a day of the week. This requirement applies to all contractors/subcontractors.

Letter of Authorization for Payroll Signature

The person signing the certified payrolls must be an Owner or Corporate Officer of the company, or an Authorization letter must be completed and sent to the Prevailing Wage Coordinator. The document sent **must be** the **original signed notarized document**. If the person signing the payroll changes during the course of the project then a new Letter of Authorization for payroll signature must be submitted.

Fringe Benefits Form

Please complete and return along with the payroll dates form and letter of authorization for payroll signature form.

Notification to Employee Form

If your company is a **non-union company** you **must provide a completed Notification form to each employee working on this site and provide the PWC a copy** (wage and fringe benefit amounts on Notification must match amounts listed on payrolls), the form must have the Prevailing Wage Coordinator information, if you are a **union company** you need to send the PWC **a copy of the contract/agreement your company has with the local Trade Union(s)**.

Certified Payroll

The **first certified payroll** must be sent to the Prevailing Wage Coordinator **within two weeks of 1st pay period on the job**, payrolls must be sent **weekly** to the Prevailing Wage Coordinator if your company is working **four months or less** on site, payrolls must be sent **at least monthly** if working **more than four months** on site. Certified payroll forms used by contractors **must include all the information that is on payroll form included** with this package, if the payroll form you use does not have sections for all the information, it must be included as an attachment to the certified payroll. (During the project you may send copies of the certified payroll but **by the end of the project you must provide the original signed documents to the Prevailing Wage Coordinator** before you will receive your final payment). Fringe benefit break down needs to be attached to **each** payroll. For any **work classifications** requiring a group number (1-5) such as laborer or operating engineer if the group number or identifying equipment employee is operating is not entered a revised payroll will be required.

Affidavit of Compliance
When each contractor/subcontractor has completed their work on the job site they're required to submit a Final Affidavit of Compliance before the primary contractor receives their final payment and any retainer. Must send Prevailing Wage Coordinator original signed document.

Apprentices
Any/all apprentices working on this project must be registered with the State of Ohio Apprenticeship Council, apprentices on site cannot exceed ratios in the wage decision rate schedule, contractors/subs must provide the Prevailing Wage Coordinator a copy of the Apprenticeship Agreement from the program for each apprentice on the project with the first payroll on which they appear. You must provide the apprentice level/year, i.e. 1, 2, 3, etc. and/or percent of Journeyman's pay rate, i.e. 50%, 55%, etc. on the certified payrolls.

Subcontractors
If any subcontractors will be used during this project then a list of subcontractors including their name, address, and phone number must be provided to the Prevailing Wage Coordinator. The Prime contractor is responsible for all forms to be furnished to subcontractors, **along with wage rates** or any other modification vital to the project.

Prevailing Wage Rates
Attached are the State of Ohio Prevailing Wage Rates as of the posting date of this bid. Actual rates due to workers will be those in affect at the time of work. Please note that the wages of the County where the work is be completed will be in effect. Due to the location of the water treatment plants, this could be either Stark or Tuscarawas counties. Both are attached. All applicable prevailing wage rates must be posted on the job site for the duration of the project.

WEEKLY PAYROLLS

Each week as work progresses the Contractor must submit to the Prevailing Wage Coordinator original, certified, signed weekly payrolls containing the following information:

A) Name of each employee.

B) Employees' social security numbers

C) Special classification of employees (same as shown on wage determination or provisional approval.)

D) Rate of pay not less than that shown on the wage determination.

E) Allowable fringe benefits paid to the employee.

F) Hours worked each day and total hours worked for each week for each employee.

G) Gross amount paid to each employee.

H) Itemized deductions for each employee.

I) Net amount paid to each employee.

J) The following certification:

"I certify that the payroll is correct and complete, that the wage rates contained therein are not less than the applicable rates contained in the Wage Determination decision of the Department of Industrial Relations, Prevailing Wage Rate Division, State of Ohio, and that the classifications set forth for each laborer or mechanic conform with the work he performs".

_____ _____

(SIGNATURE) (TITLE)

PREVAILING WAGE COORDINATOR

The City of Canton has designated Cheryl Southwell as Prevailing Wage Coordinator, in accordance with Section 4115.071 of the Ohio Revised Code.

Her office is located at City of Canton, 218 Cleveland Ave SW, Canton, Ohio 47702
Cheryl Southwell: 330-438-4183

CONTRACTORS SUBMISSIONS TO THE WAGE COORDINATOR:

1) Contractors are required to supply to the Wage Coordinator, **a schedule of the dates during the life of the contract with City of Canton on which they are required to pay wages to the employees**. See Section 4115.03 (A) (2)

2) Contractors shall also deliver to the Wage Coordinator **a certified copy of the payroll within two weeks after the initial pay date and supplemental reports for each month thereafter, which shall exhibit for each employee, their name, current address, social security number, job classification, number of hours worked for project, rate of pay, project gross pay, fringe payments, total hours all jobs, total gross all jobs, and deductions from their wages.** See Section 4115.03 (A) (3)

3) If the life of the contract is expected to be no more than four months from the beginning of performance by the contractor or subcontractor, such supplemental reports shall be filed each week after the initial report. See Section 4115.03 (A) (6) (C)

4) The certification of each payroll shall be executed by the contractor, subcontractor, or duly appointed agent thereof and **include a State of Compliance** stating that the payroll is correct and complete and that during the payroll period, all persons employed on said project have been paid the full weekly wages earned, that no rebates have or will be made either directly or indirectly to, or on behalf of said contractor or subcontractor for the full weekly wages earned by any person and that no deductions have been made either directly or indirectly from the full wages earned by any person, other than permissible deductions. See Section 4115.03 (A) (6) (C)

5) Contractors will also provide **each month a copy of any Labor Union Fringe Benefit Fund reports that they submitted to the unions**. See Section 4115.03

PREVAILING WAGE COORDINATOR MONITORING PROCEDURES

The wage Coordinator's duties are those specified in Section 4115.071 and shall include:

1 Attend Pre-Construction Meetings to advise contractor of Prevailing Wage responsibilities

2 Wage Coordinator has the authority to spot check employees pay checks in the field on the scheduled pay days for full compliance, with regard to the prevailing wage rates, including benefits.

3 Wage Coordinator shall visit the project site to get names of employees performing work on the project site, to cross check with payroll reports submitted.

4 Wage Coordinator shall verify the subcontractors performing work on the project site with regard to whether they have been approved by the contracting authority.

5 Wage Coordinator shall check to see that the prevailing wages are posted on the project site in a place accessible to employees.

6 Ascertain that the statement of compliance accompanying the certified payroll is the correct one for the project

7 Wage Coordinator has the right to request any addition information they feel is required for proper wage verification.

8 Contact Contractors of delinquent payrolls

9 Notify contractors when necessary to request payroll corrections

10 Investigate wage complaints ,by self or with Ohio Department of Commerce Division of Labor & Worker Safety

PAYROLL DATES
PREVAILING WAGE LAW

Instructions to the Contractor: Please read the following and provide the required information noted on this form. This document must be submitted to the Prevailing Wage Coordinator for the public authority on or before your company begins any work under a contract for a public improvement. This requirement is also applicable to your subcontractors. Please make a copy of this document available to them. The prevailing wage laws state that contractors are responsible for their subcontractors.

_____ will begin performance under contract on the
(Name of Contractor)

_____ project on _____
(Name and Location of Project) (Start Date)

and will conclude work on said project on _____.
(End Date, if known)

In accordance with Section 4115.071 (C) of the Ohio Revised Code, listing of payroll dates, I hereby submit the following schedule of dates that my company is required to pay wages to its workers while on this project.
NOTE: If the life of the project is expected to be over three (3) months in length, provide only the days of the week your pay period starts and ends, plus the day you pay your workers.

_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Day Pay Period Starts:_____ Day Pay Period Ends:_____

Pay Day:_____

I acknowledge that I am required by section 4115.071 (C) of the Ohio Revised Code that I must submit a copy of my company's certified payroll records for this project to the Prevailing Wage Coordinator of the public authority within two weeks of the initial pay date listed above. I further acknowledge that I am responsible to collect and submit my subcontractor's prevailing wage documents, including their certified payroll records in accordance with the law.

_____ _____
(Contractor's Signature and Title) (Company Name)

_____
(Date)

LETTER OF AUTHORIZATION FOR PAYROLL SIGNATURE:

DATE: _____

COMPANY NAME: _____

ADDRESS: _____

_____

FEDERAL I.D.# _____

RE: _____

(Project Name) (Project Number)

_____

(Address)

_____ hereby authorizes

(Company Officer/Owner-Title)

_____ as the person to

complete and sign all certified payroll forms for the above project.

BY:_____

(Print Name)

_____

(Signature)

_____

(Title)

Sworn and subscribed in my presence this _____ day of _____ 20___

_____

Notary Public

FRINGE BENEFITS

PLEASE COMPLETE THIS FORM AND RETURN IT TO THE ADDRESS BELOW.

_____ FRINGE BENEFITS ARE ALL PAID IN CASH TO THE EMPLOYEE.

_____ FRINGE BENEFITS ARE PAID IN CASH AND TO THE BENEFIT PROGRAMS LISTED BELOW.

_____ FRINGE BENEFITS ARE ALL PAID TO THE FOLLOWING BENEFIT PROGRAMS:

HEALTH & WELFARE PLAN: _____

ADDRESS: _____

_____

PENSION PLAN: _____

ADDRESS: _____

_____

APPRENTICESHIP PROGRAM: _____

YOUR COMPANY IS: _____ UNION _____ NON-UNION

YOUR COMPANY PAYS ALL EMPLOYEES: _____ WEEKLY _____ BI-WEEKLY

FORWARD A BLANK FORM TO EACH SUBCONTRACTOR ON THE PROJECT FOR COMPLETION.
RETURN ALL FORMS TO:

CITY OF CANTON
218 CLEVELAND AVE SW
CANTON, OHIO 44702
ATTN: PREVAILING WAGE COORDINATOR

CONTRACTOR'S NAME: _____

ADDRESS: _____

PROJECT NAME: _____

PREVAILING WAGE NOTIFICATION to EMPLOYEE

4115.05 .....the contractor or subcontractor shall furnish each employee not covered by a collective bargaining agreement written notification of the job classification to which the employee is assigned, the prevailing wage determined to be applicable to that classification, separated into the hourly rate of pay and the fringe payments, and the identity of the prevailing wage coordinator appointed by the public authority. The contractor or subcontractor shall furnish the same notification to each affected employee every time the job classification of the employee is changed.

Project Name:	Job Number.
Contractor:	
Project Location:	
Jobsite posting of prevailing wage rates located:	

Prevailing Wage Coordinator	Employee
Name: City of Canton Attn: Cheryl Southwell	Name:
Street: 218 Cleveland Ave SW 6th Floor	Street:
City: Canton	City:
State/Zip: Ohio 44702	State/Zip:
Phone: 330-438-4183	Phone:

You will be performing work on this project that falls under these classifications. You will be paid the appropriate rate for the type of work you are performing.

Classification:	Prevailing Wage Rate Total Package:	Minus your fringe benefits:	Your hourly base rate:

Hourly fringe benefits paid on your behalf by this company:

Fringe	Amount	Fringe	Amount
Health Insurance		Vacation	
Life Insurance		Holiday	
Pension		Sick Pay	
Bonus		Training	
Other		**Total Hourly Fringes**	

ontractor's Signature:	Date:
Employee's Signature:	Date:

whpw1512 Notification to Employee

INSTRUCTIONS FOR PREPARING CERTIFIED PAYROLL REPORTS

General:

Contractors and subcontractors are required by law to submit certified payroll reports for work on projects covered by Ohio's Prevailing Wage Law. This form meets the reporting requirements established by Ohio Revised Code Chapter 4115. The use of this form is not mandatory; employers may submit their own forms provided that all of the required information is included. This form may be reproduced, or additional copies obtained from:

Ohio Department of Commerce
Division of Industrial Compliance
Bureau of Wage and Hour Administration
6606 Tussing Road, P.O. Box 4009
Reynoldsburg, Ohio 43068-9009
614-644-2239
www.com.ohio.gov

Certified Payroll Heading:

Employer name and address: Company's full name and address…Indicate if the company is a subcontractor.
Subcontractor: Check and list the name of the General Contractor or Prime.
Project: Name and location of the project, including county.
Contracting Public Authority: Name and address of the contracting public authority… (Owner of the project).
Week Ending: Month, day, and year for last day of reporting period.
Payroll # : Indicates first, second, third, etc. payroll filed by the company for the project.
Page indicator: number of pages included in the report.
Project Number: Determined by the public authority…If there is no number leave blank.

Payroll Information by column:

1. Employee Name, Address and Social Security number: This information must be provided for all employees that perform physical labor on the project. The Social Security number is required; the last four digits may be permitted by the public authority. Corporate officers, partners, and salaried employees are considered employees and must be paid the prevailing rate. Individual sole proprietors do not have to pay themselves prevailing rate but must report their hours on the project.

2. Work Class: List classification of work actually performed by employee. If unsure of work classification, consult the Ohio Department of Commerce-Division of Industrial Compliance & Labor-Bureau of Wage and Hour Administration. Employees working more than one classification should have separate line entries for each classification. Indicate what year/level for Apprentices. Be specific when using laborer and operator classifications; for example, Backhoe Operator or Asphalt Laborer or by "Group".

3. Hours Worked, Day & Date: In the first row of column 3, enter days of the company's pay period for example; M T W TH F S S. The second row is for the date that corresponds with each day for the pay period. In the employee information section, enter the number of hours worked on the prevailing wage project and which day the hours were worked. Separate rows are labeled for (ST) straight time hours and (OT) overtime hours. All hours worked after 40, must be paid at the appropriate overtime rate.

4. Project Total Hours : Total the hours entered for pay period.

5. Base Rate: Enter actual rate per hour paid to the employee. The overtime hourly rate is time and one-half the base rate listed in the prevailing wage schedule plus fringe benefits at straight time rate. The prevailing wage schedule lists the base rate plus fringe benefit amounts. These amounts added together equal the total prevailing wage rate. Employers must pay this total amount in one of three ways.
   1) Total rate may be paid in entirety in the base rate to the employee; in which case, the cash designation will be checked for fringe benefits.
   2) Total rate may be paid as listed in prevailing wage rate schedule with total fringe amounts paid approved plans.
   3) Total rate may be paid with a combination of base rate and fringe payments to approved plans in amounts other than those listed in schedule.

6. Project Gross: Enter total gross wages earned on the project for straight time and overtime. Project hours "X" base rate should equal project gross.

7. Fringes: If fringe benefits are paid in the hourly base rate, indicate this by marking the **Cash** space. If fringe benefits are paid to approved plans as listed in the prevailing wage rate schedule, mark the space **Approved Plans.** If fringe benefits are paid partially in the base rate and partially to approved plans, mark the space **Cash & Approved Plans.** List the hourly amount paid to approved plans for each fringe. If payments are not made on a per hour basis, ***calculate the hourly fringe credit by dividing the yearly employer contribution by*** the lesser of: hours actually worked in the year (these must be documented) or ***2080.*** Fringe benefits include: **Employer's share** of health insurance, life insurance, retirement plan, bonus/profit sharing, sick pay, holiday pay, personal leave, vacation, and education/training programs. If unsure of a possible fringe benefit, contact the Ohio Department of Commerce-Division of Industrial Compliance & Labor-Bureau of Wage and Hour Administration.

8. Total Hours All Jobs: Total all hours worked during the pay period including non-prevailing wage jobs.

9. Total Gross All Jobs: Gross amount earned in the pay period for all hours worked.

10. Self explanatory.

11. Self explanatory.

(a) The number of hours worked in each day and the total number of hours worked each week.

4. Hourly rate for each employee.
   (a) The minimum rate paid must be the wage rate for the appropriate classification. The Department's Wage Rate Schedule sets this rate.
   (b) All overtime worked is to be paid at time and one-half for all hours worked more than forty (40) per week.
5. Where fringes are paid into a bona fide plan instead of cash, list each benefit and amount per hour paid to program for each employee.
   (a) When the amount contributed to the fringe benefit plan and the total number of hours worked by the employee on all projects for the year are documented, the hourly amount is calculated by dividing the total contribution of the employer by the total number of hours worked by the employee.
   (b) When the amount contributed to the fringe benefit is documented but not the total hours worked, the hourly amount is calculated by **dividing the total yearly contribution by 2080.**
6. Gross amount earned on all projects during the pay period.
7. Total deductions from employee's wages.
8. Net amount paid.

J. The reports shall be certified by the contractor, subcontractor, or duly appointed agent stating that the payroll is correct and complete; and that the wage rates shown are not less than those required by the O.R.C. 4115.

K. Provide a Final Affidavit to the Prevailing Wage Coordinator upon the completion of the project.

CERTIFIED PAYROLL REPORT

Employer Name & Address	Name of General / Prime Contractor	Project Name & Location	Contracting Public Authority
Check if subcontractor ☐	Week Ending	Payroll # Page______Of______	Project Number

1. Employee Name, Address and Social Security Number	2. Work Class		3. Hours Worked - Day & Date							4. Project Total Hrs	5. Base Rate	6. Project Gross	7. Fringes: Cash ☐ Approved Plans ☐ Cash & Approved Plans ☐					8. Total Hours All Jobs	9. Total Gross All Jobs	10. Taxes Withheld	11. Other Deducts	12. NET Paid
													H&W	Pens	Vac	App	Other					
		OT																				
		ST																				
		OT																				
		ST																				
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Date________________My signature on this form signifies that I pay, or supervise the payment of the employees shown above. I am certifying: 1) That during the pay period reported on this form, all hours worked on this project have been paid at the appropriate prevailing wage rate for the class of work done. 2) That the fringe benefits have been paid as indicated above. 3) That no rebates or deductions have been or will be made, directly or indirectly from the total wages earned, other than permissable deductions as defined in the Ohio Revised Code Chapter 4115. 4) That apprentices are registered with the U.S. Department of Labor, Bureau of Apprenticeship and Training. The willful falsification of any of the above statements may subject the contractor or subcontractor to civil or criminal prosecution.

Name and Title ______________________________

Signature ______________________________

AFFIDAVIT OF CONTRACTOR OR SUBCONTRACTOR

PREVAILING WAGES

I, _____,
(Name of person signing the affidavit) (Title)

of the _____, do hereby certify that the
(Company Name)

wages paid to all employees for the full number of hours worked in connection with the Contract to the Improvement, Repair and Construction of:

_____
(Project name and location of the project)

during the following period from _____ to _____

in accordance with the prevailing wage prescribed by the contract document.

I further certify that no rebates of deductions for any wages due any person have been directly or indirectly made other that those provided by law.

_____
(Signature of officer or agent)

Sworn to and subscribed in my presence this _____ day of _____

20_____.

_____
(Notary Public)

The above affidavit must be executed and sworn to by the officer or agent of the Contractor or Subcontractor who supervises the payment of employees, before the owner will release the surety and/or make a final payment due under the terms of the Contract.

Appendix B

Prevailing Wage Determination Cover Letter

County: STARK
Determination Date: 10/12/2021
Expiration Date: 01/12/2022

THE FOLLOWING PAGES ARE PREVAILING RATES OF WAGES ON PUBLIC IMPROVEMENTS FAIRLY ESTIMATED TO BE MORE THAN THE AMOUNT IN O.R.C. SEC. 4115.03 (b) (1) or (2), AS APPLICABLE.

Section 4115.05 provides, in part: "Where contracts are not awarded or construction undertaken within ninety days from the date of the establishment of the prevailing wages, there shall be a redetermination of the prevailing rate of wages before the contract is awarded." The expiration date of this wage schedule is listed above for your convenience only. This wage determination is not intended as a blanket determination to be used for all projects during this period without prior approval of this Department.

Section 4115.04, Ohio Revised Code provides, in part: "Such schedule of wages shall be attached to and made a part of the specifications for the work, and shall be printed on the bidding blanks where the work is done by contract..."

The contract between the letting authority and the successful bidder shall contain a statement requiring that mechanics and laborers be paid a prevailing rate of wage as required in Section 4115.06, Ohio Revised Code.

The contractor or subcontractor is required to file with the contracting public authority upon completion of the project and prior to final payment therefore an affidavit stating that he has fully complied with Chapter 4115 of the Ohio Revised Code.

The wage rates contained in this schedule are the "Prevailing Wages" as defined by Section 4115.03, Ohio Revised Code (the basic hourly rates plus certain fringe benefits). These rates and fringes shall be a minimum to be paid under a contract regulated by Chapter 4115 of the Ohio Revised Code by contractors and subcontractors. The prevailing wage rates contained in this schedule include the effective dates and wage rates currently on file. In cases where future effective dates are not included in this schedule, modifications to the wage schedule will be furnished to the Prevailing Wage Coordinator appointed by the public authority as soon as prevailing wage rates increases are received by this office.

"There shall be posted in a prominent and accessible place on the site of work a legible statement of the Schedule of Wage Rates specified in the contract to the various classifications of laborers, workmen, and mechanics employed, said statement to remain posted during the life of such contract." Section 4115.07, Ohio Revised Code.

Apprentices will be permitted to work only under a bona fide apprenticeship program if such program exists and if such program is registered with the Ohio Apprenticeship Council.

Section 4115.071 provides that no later than ten days before the first payment of wages is due to any employee of any contractor or subcontractor working on a contract regulated by Chapter 4115, Ohio Revised Code, the contracting public authority shall appoint one of his own employees to act as the prevailing wage coordinator for said contract. The duties of the prevailing wage coordinator are outlined in Section 4115.071 of the Ohio Revised Code.

Section 4115.05 provides for an escalator in the prevailing wage rate. Each time a new rate is established, that rate is required to be paid on all ongoing public improvement projects.

A further requirement of Section 4115.05 of the Ohio Revised Code is: "On the occasion of the first pay date under a contract, the contractor shall furnish each employee not covered by a collective bargaining agreement or understanding between employers and bona fide organizations of Labor with individual written notification of the job classification to which the employee is assigned, the prevailing wage determined to be applicable to that classification, separated into the hourly rate of pay and the fringe payments, and the identity of the prevailing wage Coordinator appointed by the public authority. The contractor or subcontractor shall furnish the same notification to each affected employee every time the job classification of the employee is changed."

Work performed in connection with the installation of modular furniture may be subject to prevailing wage.

THIS PACKET IS NOT TO BE SEPARATED BUT IS TO REMAIN COMPLETE AS IT IS SUBMITTED TO YOU. (Reference guidelines and forms are included in this packet to be helpful in the compliance of the Prevailing

Wage law.)
wh1500

Prevailing Wage Rate
Skilled Crafts

Name of Union: Asbestos Local 207 OH

Change # : LCN01-2018fbLoc207OH

Craft : Asbestos Worker Effective Date : 08/23/2018 Last Posted : 08/23/2018

	BHR	Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
		H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification											
Asbestos Abatement	$25.50	$7.25	$6.45	$0.65	$0.00	$0.00	$0.07	$0.00	$0.00	$39.92	$52.67
Trainee	$16.50	$7.25	$1.50	$0.65	$0.00	$0.00	$0.07	$0.00	$0.00	$25.97	$34.22

Special Calculation Note :

Ratio :

3 Journeymen to 1 Trainee

Jurisdiction (* denotes special jurisdictional note) :
ADAMS, ASHLAND, ASHTABULA*, ATHENS, AUGLAIZE, BROWN, BUTLER*, CARROLL, CHAMPAIGN, CLARK, CLERMONT, CLINTON, COLUMBIANA, COSHOCTON, CRAWFORD, CUYAHOGA, DARKE, DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, GEAUGA, GREENE, GUERNSEY, HAMILTON, HARDIN, HARRISON, HIGHLAND, HOCKING, HOLMES, HURON, KNOX, LAKE, LICKING, LOGAN, LORAIN, MADISON, MAHONING, MARION, MEDINA, MIAMI, MONTGOMERY, MORGAN, MORROW, MUSKINGUM, NOBLE, PERRY, PICKAWAY, PORTAGE, PREBLE, RICHLAND, ROSS, SHELBY, STARK, SUMMIT, TRUMBULL, TUSCARAWAS, UNION, VINTON, WARREN*, WAYNE

Special Jurisdictional Note : Butler County:(townships of Fairfield,Hanover,Liberty,Milford,Morgan,Oxford,Ripley,Ross,StClair,Union & Wayne.) (Lemon & Madison) Warren County: (townships of: Deerfield, Hamilton, Harlan, Salem, Union & Washington). (Clear Creek, Franklin, Mossie, Turtle Creek & Wayney). Ashtabula County: (post offices & townships

of Ashtabula, Austinburg, Geneva, Harperfield, Jefferson, Plymouth & Saybrook) (townships of Andover, Cherry Valley, Colbrook, Canneaut, Denmark, Dorset, East Orwell, Hartsgrove, Kingville, Lenox, Monroe,Morgan,New Lyme,North Kingsville, Orwell, Pierpoint, Richmond Rock Creek, Rome, Shefield, Trumbull, Wayne, Williamsfield & Windsor) Erie County:(post offices & townships of Berlin, Berlin Heights,Birmingham,Florence ,Huron, Milan, Shinrock & Vermilion)

Details :

Asbestos & lead paint abatement including,but not limited to the removal or encapsulation of asbestos & lead paint,all work in conjunction with the preparation of the removal of same & all work in conjunction with the clean up after said removal.The removal of all insulation materials, whether they contain asbestos or not, from mechanical systems (pipes, boilers, ducts, flues, breaching, etc.) is recognized as being the exclusive work of the Asbestos Abatement Workers.

On all mechanical systems (pipes, boilers, ducts, flues, breaching, etc.) that are going to be demolished, the removal of all insulating materials whether they contain asbestos or not shall be the exclusive work of the Laborers.

An Abatement Journeyman is anyone who has more than 300 hours in the Asbestos Abatement field.

Prevailing Wage Rate
Skilled Crafts

Name of Union: Asbestos Local 84 Heat & Frost Insulators

Change # : LCN01-2018fbLoc84

Craft : Asbestos Worker Effective Date : 06/06/2018 Last Posted : 06/06/2018

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Asbestos Insulation Worker	$31.47		$9.49	$8.36	$0.36	$0.00	$3.39	$0.24	$0.00	$0.00	$53.31	$69.04
Apprentice	Percent											
1st Year	50.00	$15.74	$9.49	$8.36	$0.36	$0.00	$3.39	$0.24	$0.00	$0.00	$37.58	$45.44
2nd Year	60.00	$18.88	$9.49	$8.36	$0.36	$0.00	$3.39	$0.24	$0.00	$0.00	$40.72	$50.16
3rd Year	70.00	$22.03	$9.49	$8.36	$0.36	$0.00	$3.39	$0.24	$0.00	$0.00	$43.87	$54.88
4th Year	80.00	$25.18	$9.49	$8.36	$0.36	$0.00	$3.39	$0.24	$0.00	$0.00	$47.02	$59.60

Special Calculation Note : Other is Industry and Labor Management Fund

Ratio :

3 Journeymen to 1 Apprentice per shop

Jurisdiction (* denotes special jurisdictional note) :

ASHLAND, ASHTABULA*, CARROLL, COLUMBIANA, COSHOCTON, ERIE*, HARRISON, HOLMES, MAHONING, MEDINA, PORTAGE, RICHLAND, STARK, SUMMIT, TRUMBULL, TUSCARAWAS, WAYNE

Special Jurisdictional Note : Ashtabula County: except for the townships of Ashtabula, Austinburg, Geneva, Harpersfield, Jefferson, Plymouth and Saybrook.Erie except Sandusky city limits.

Details :

The removal of all insulation materials, whether they contain asbestos or not, from mechanical systems (pipes, boilers, ducts, flues, breaching, etc.) is recognized as being the exclusive work of the Asbestos Workers.
On all mechanical systems (pipes, boilers, ducts, flues, breaching, etc.) that are going to be demolished, the removal of all insulating materials whether they contain asbestos or not shall be the exclusive work of the Laborers.

Prevailing Wage Rate
Skilled Crafts

Name of Union: Boilermaker Local 744

Change # : LCNO1-2019fbLoc744

Craft : Boilermaker Effective Date : 04/03/2019 Last Posted : 04/03/2019

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Boilermaker	$38.05		$7.07	$16.07	$0.74	$0.00	$5.08	$0.75	$0.00	$0.00	$67.76	$86.78
Apprentice	Percent											
1st 6 months	70.02	$26.64	$7.07	$16.07	$0.74	$0.00	$5.08	$0.75	$0.00	$0.00	$56.35	$69.67
2nd 6 months	72.52	$27.59	$7.07	$16.07	$0.74	$0.00	$5.08	$0.75	$0.00	$0.00	$57.30	$71.10
3rd 6 months	75.00	$28.54	$7.07	$16.07	$0.74	$0.00	$5.08	$0.75	$0.00	$0.00	$58.25	$72.52
4th 6 months	77.51	$29.49	$7.07	$16.07	$0.74	$0.00	$5.08	$0.75	$0.00	$0.00	$59.20	$73.95
5th 6 months	80.00	$30.44	$7.07	$16.07	$0.74	$0.00	$5.08	$0.75	$0.00	$0.00	$60.15	$75.37
6th 6 months	85.03	$32.35	$7.07	$16.07	$0.74	$0.00	$5.08	$0.75	$0.00	$0.00	$62.06	$78.24
7th 6 months	90.00	$34.25	$7.07	$16.07	$0.74	$0.00	$5.08	$0.75	$0.00	$0.00	$63.96	$81.08
8th 6 months	95.00	$36.15	$7.07	$16.07	$0.74	$0.00	$5.08	$0.75	$0.00	$0.00	$65.86	$83.93
Helper	60.00	$22.83	$7.07	$16.07	$0.74	$0.00	$5.08	$0.75	$0.00	$0.00	$52.54	$63.96

Special Calculation Note : Other is Supplemental Health

Ratio :

5 Journeymen to 1 Apprentice to 1 Helper

Jurisdiction (* denotes special jurisdictional note) :

ASHTABULA, CARROLL, COSHOCTON, CUYAHOGA, GEAUGA, HARRISON, HOLMES, LAKE, LORAIN, MAHONING, MEDINA, PORTAGE, STARK, SUMMIT, TRUMBULL, TUSCARAWAS, WAYNE

Special Jurisdictional Note :

Details :

Prevailing Wage Rate
Skilled Crafts

Name of Union: Bricklayer Local 6

Change # : LCN01-2021fbLoc6

Craft : Bricklayer **Effective Date :** 05/01/2021 **Last Posted :** 04/21/2021

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Bricklayer	$29.64		$10.17	$7.73	$1.19	$0.00	$0.00	$0.05	$0.00	$0.00	$48.78	$63.60
Pointer Caulker Cleaner	$29.64		$10.17	$7.73	$1.19	$0.00	$0.00	$0.05	$0.00	$0.00	$48.78	$63.60
Stone Mason	$29.64		$10.17	$7.73	$1.19	$0.00	$0.00	$0.05	$0.00	$0.00	$48.78	$63.60
Cement Mason	$29.64		$10.17	$7.73	$1.19	$0.00	$0.00	$0.05	$0.00	$0.00	$48.78	$63.60
Plaster	$29.64		$10.17	$7.73	$1.19	$0.00	$0.00	$0.05	$0.00	$0.00	$48.78	$63.60
Apprentice	Percent											
1st 6 months	55.00	$16.30	$10.17	$7.73	$1.19	$0.00	$0.00	$0.05	$0.00	$0.00	$35.44	$43.59
2nd 6 months	60.00	$17.78	$10.17	$7.73	$1.19	$0.00	$0.00	$0.05	$0.00	$0.00	$36.92	$45.82
3rd 6 months	65.00	$19.27	$10.17	$7.73	$1.19	$0.00	$0.00	$0.05	$0.00	$0.00	$38.41	$48.04
4th 6 months	70.00	$20.75	$10.17	$7.73	$1.19	$0.00	$0.00	$0.05	$0.00	$0.00	$39.89	$50.26
5th 6 months	75.00	$22.23	$10.17	$7.73	$1.19	$0.00	$0.00	$0.05	$0.00	$0.00	$41.37	$52.49
6th 6 months	80.00	$23.71	$10.17	$7.73	$1.19	$0.00	$0.00	$0.05	$0.00	$0.00	$42.85	$54.71
7th 6 months	90.00	$26.68	$10.17	$7.73	$1.19	$0.00	$0.00	$0.05	$0.00	$0.00	$45.82	$59.15
8th 6 months	95.00	$28.16	$10.17	$7.73	$1.19	$0.00	$0.00	$0.05	$0.00	$0.00	$47.30	$61.38

Special Calculation Note : OTHER IS DRUG TESTING

Ratio :

1 Journeymen to 1 Apprentice
5 Journeymen to 2 Apprentice
9 Journeymen to 3 Apprentice
13 Journeymen to 4 Apprentice

Jurisdiction (* denotes special jurisdictional note) :
CARROLL, STARK, TUSCARAWAS

Special Jurisdictional Note :

Details :

Prevailing Wage Rate
Skilled Crafts

Name of Union: Bricklayer Local 8 Tile Finisher

Change # : LCN01-2014fbLoc8

Craft : Bricklayer Effective Date : 06/11/2014 Last Posted : 06/11/2014

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Bricklayer Tile Marble Terrazzo Finisher	$23.17		$5.00	$7.85	$0.20	$0.00	$0.37	$0.37	$0.00	$0.00	$36.96	$48.55
Resilient flooring Wood Laminate Carpet Carpet Tile Finisher	$13.34		$5.00	$7.23	$0.00	$0.00	$0.00	$0.26	$0.00	$0.00	$25.83	$32.50
New Employees	Percent											
1st 30 days	59.89	$13.88	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$13.88	$20.81
2nd 30 days thru 6 months	59.89	$13.88	$5.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$18.88	$25.81
2nd 6 months	69.90	$16.20	$5.00	$7.85	$0.20	$0.00	$0.37	$0.37	$0.00	$0.00	$29.99	$38.08
3rd 6 months	74.93	$17.36	$5.00	$7.85	$0.20	$0.00	$0.37	$0.37	$0.00	$0.00	$31.15	$39.83
4th 6 months	79.88	$18.51	$5.00	$7.85	$0.20	$0.00	$0.37	$0.37	$0.00	$0.00	$32.30	$41.55
5th 6 months	84.88	$19.67	$5.00	$7.85	$0.20	$0.00	$0.37	$0.37	$0.00	$0.00	$33.46	$43.29
6th 6 months	89.88	$20.83	$5.00	$7.85	$0.20	$0.00	$0.37	$0.37	$0.00	$0.00	$34.62	$45.03

7th 6 months	94.88	$21.98	$5.00	$7.85	$0.20	$0.00	$0.37	$0.37	$0.00	$0.00	$35.77	$46.77
8th 6 months	94.88	$21.98	$5.00	$7.85	$0.20	$0.00	$0.37	$0.37	$0.00	$0.00	$35.77	$46.77

Special Calculation Note : Other $.40 is for International Masonry Training. Classification title contains "Bricklayer" because contract originates within the Bricklayer Local.
Note that the classification description is clarified after the local union number at the top of the page.

Ratio :

Journeymen 4 to 1 Apprentice

Journeymen 6 to 1 Apprentice thereafter

Jurisdiction (* denotes special jurisdictional note) :

ASHTABULA, CARROLL, COLUMBIANA, COSHOCTON, HARRISON, HOLMES, JEFFERSON, MAHONING, PORTAGE, STARK, TRUMBULL, TUSCARAWAS, WAYNE

Special Jurisdictional Note : Townships in Columbiana County are as follows: Salem, Perry, Fairfield, Center Elkrun, Middletown and Unity

Details :

Mechanic's assistants shall do all the handling, of sand, cement, lime, tile, marble, terrazzo and other materials used by the mechanics upon being delivered to the building or at the job. Hand rubbing, rolling, mixing, formulating, grinding, grouting, and cleaning of all marble, tile, mosaic, and terrazzo floors, and wainscoting, and such other work as is required in helping a mechanic as is the established custom of the trade. No limit to the tools, equipment or machinery used.

Prevailing Wage Rate
Skilled Crafts

Name of Union: Bricklayer Local 8 Zone 2 Tile Setters & Finishers

Change # : LCN1-2021fbLoc6

Craft : Bricklayer Effective Date : 06/03/2021 Last Posted : 06/03/2021

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Bricklayer Tile Setter	$26.00		$8.49	$6.35	$0.62	$0.00	$0.00	$0.00	$0.00	$0.00	$41.46	$54.46
Marble Mason	$26.00		$8.49	$6.35	$0.62	$0.00	$0.00	$0.00	$0.00	$0.00	$41.46	$54.46
Terrazzo worker	$26.00		$8.49	$6.35	$0.62	$0.00	$0.00	$0.00	$0.00	$0.00	$41.46	$54.46
Finisher Support	$23.42		$8.49	$6.35	$0.59	$0.00	$0.00	$0.00	$0.00	$0.00	$38.85	$50.56
Apprentice Finisher Support Only												
1st 30 days	$14.05		$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$14.05	$21.08
30 days-6 months	$14.05		$8.49	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$22.54	$29.57
2ND 6 months	$16.39		$8.49	$6.35	$0.59	$0.00	$0.00	$0.00	$0.00	$0.00	$31.82	$40.02
3RD 6 months	$17.57		$8.49	$6.35	$0.59	$0.00	$0.00	$0.00	$0.00	$0.00	$33.00	$41.79
4TH 6 months	$18.74		$8.49	$6.35	$0.59	$0.00	$0.00	$0.00	$0.00	$0.00	$34.17	$43.54
5TH 6 months	$19.91		$8.49	$6.35	$0.59	$0.00	$0.00	$0.00	$0.00	$0.00	$35.34	$45.30
6TH 6 months	$21.08		$8.49	$6.35	$0.59	$0.00	$0.00	$0.00	$0.00	$0.00	$36.51	$47.05
Apprentice	**Percent**											
1st 30 Days	60.00	$15.60	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$15.60	$23.40
30 days- 6 months	60.00	$15.60	$8.49	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$24.09	$31.89
2nd 6 months	70.00	$18.20	$8.49	$6.35	$0.62	$0.00	$0.00	$0.00	$0.00	$0.00	$33.66	$42.76
3rd 6 months	75.00	$19.50	$8.49	$6.35	$0.62	$0.00	$0.00	$0.00	$0.00	$0.00	$34.96	$44.71
4th 6 months	80.00	$20.80	$8.49	$6.35	$0.62	$0.00	$0.00	$0.00	$0.00	$0.00	$36.26	$46.66

5th 6 months	85.00	$22.10	$8.49	$6.35	$0.62	$0.00	$0.00	$0.00	$0.00	$0.00	$37.56	$48.61
6th 6 months	90.00	$23.40	$8.49	$6.35	$0.62	$0.00	$0.00	$0.00	$0.00	$0.00	$38.86	$50.56
7th 6 months	95.00	$24.70	$8.49	$6.35	$0.62	$0.00	$0.00	$0.00	$0.00	$0.00	$40.16	$52.51
8th 6 months	95.00	$24.70	$8.49	$6.35	$0.62	$0.00	$0.00	$0.00	$0.00	$0.00	$40.16	$52.51

Special Calculation Note : Classification title contains "Bricklayer" because contract originates within the Bricklayer Local.
Note that the classification description is clarified after the local union number at the top of the page.

Ratio :

4 Journeymen to 1 Apprentice
6 Journeymen to 1 Apprentice (Thereafter)

Jurisdiction (* denotes special jurisdictional note) :

BELMONT, CARROLL, HARRISON, JEFFERSON, MONROE, STARK, TUSCARAWAS

Special Jurisdictional Note :

Details :

Prevailing Wage Rate
Skilled Crafts

Name of Union: Bricklayer Local 8 Zone 2 Tile Setters & Finishers

Change # : LCN1-2019fbLoc6

Craft : Bricklayer Effective Date : 06/01/2019 Last Posted : 05/29/2019

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Bricklayer Tile Setter	$25.27		$7.55	$5.85	$0.59	$0.00	$0.00	$0.00	$0.00	$0.00	$39.26	$51.90
Marble Mason	$25.27		$7.55	$5.85	$0.59	$0.00	$0.00	$0.00	$0.00	$0.00	$39.26	$51.90
Terrazzo worker	$25.27		$7.55	$5.85	$0.59	$0.00	$0.00	$0.00	$0.00	$0.00	$39.26	$51.90
Finisher Support	$22.68		$7.55	$5.85	$0.57	$0.00	$0.00	$0.00	$0.00	$0.00	$36.65	$47.99
APPRENTICE Finisher Support Only												
1st 30 days	$13.61		$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$13.61	$20.41
30 days-6 months	$13.61		$7.55	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$21.16	$27.96
2ND 6 months	$15.88		$7.55	$5.85	$0.57	$0.00	$0.00	$0.00	$0.00	$0.00	$29.85	$37.79
3RD 6 months	$17.01		$7.55	$5.85	$0.57	$0.00	$0.00	$0.00	$0.00	$0.00	$30.98	$39.49
4TH 6 months	$18.14		$7.55	$5.85	$0.57	$0.00	$0.00	$0.00	$0.00	$0.00	$32.11	$41.18
5TH 6 months	$19.28		$7.55	$5.85	$0.57	$0.00	$0.00	$0.00	$0.00	$0.00	$33.25	$42.89
6TH 6 months	$20.41		$7.55	$5.85	$0.57	$0.00	$0.00	$0.00	$0.00	$0.00	$34.38	$44.59
Apprentice	**Percent**											
1st 30 Days	60.00	$15.16	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$15.16	$22.74
30 days- 6 months	60.00	$15.16	$7.55	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$22.71	$30.29
2nd 6 months	70.00	$17.69	$7.55	$5.85	$0.59	$0.00	$0.00	$0.00	$0.00	$0.00	$31.68	$40.52
3rd 6 months	75.00	$18.95	$7.55	$5.85	$0.59	$0.00	$0.00	$0.00	$0.00	$0.00	$32.94	$42.42
4th 6 months	80.00	$20.22	$7.55	$5.85	$0.59	$0.00	$0.00	$0.00	$0.00	$0.00	$34.21	$44.31
5th 6 months	85.00	$21.48	$7.55	$5.85	$0.59	$0.00	$0.00	$0.00	$0.00	$0.00	$35.47	$46.21
6th 6 months	90.00	$22.74	$7.55	$5.85	$0.59	$0.00	$0.00	$0.00	$0.00	$0.00	$36.73	$48.10
7th 6 months	95.00	$24.01	$7.55	$5.85	$0.59	$0.00	$0.00	$0.00	$0.00	$0.00	$38.00	$50.00
8th 6 months	95.00	$24.01	$7.55	$5.85	$0.59	$0.00	$0.00	$0.00	$0.00	$0.00	$38.00	$50.00

Special Calculation Note : Classification title contains "Bricklayer" because contract originates within the Bricklayer Local.
Note that the classification description is clarified after the local union number at the top of the

page.

Ratio :

4 Journeymen to 1 Apprentice
6 Journeymen to 1 Apprentice (Thereafter)

Jurisdiction (* denotes special jurisdictional note) :

BELMONT, CARROLL, HARRISON, JEFFERSON, MONROE, STARK, TUSCARAWAS

Special Jurisdictional Note :

Details :

Prevailing Wage Rate
Skilled Crafts

Name of Union: Carpenter Commercial NE Zone 2B

Change # : LCN01-2021fbLocNEZone2B

Craft : Carpenter **Effective Date :** 05/21/2021 **Last Posted :** 05/21/2021

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Carpenter	$28.17		$7.81	$11.17	$0.56	$0.00	$1.12	$0.00	$0.00	$0.00	$48.83	$62.92
Apprentice	Percent											
1st 3 Months	60.00	$16.90	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$16.90	$25.35
2nd 3 Months	60.00	$16.90	$7.81	$0.00	$0.56	$0.00	$0.00	$0.00	$0.00	$0.00	$25.27	$33.72
2nd 6 Months is 1st year	60.00	$16.90	$7.81	$0.00	$0.56	$0.00	$0.00	$0.00	$0.00	$0.00	$25.27	$33.72
3rd 6 Months	60.00	$16.90	$7.81	$0.00	$0.56	$0.00	$0.00	$0.00	$0.00	$0.00	$25.27	$33.72
4th 6 Months is 2nd year	60.00	$16.90	$7.81	$0.00	$0.56	$0.00	$0.00	$0.00	$0.00	$0.00	$25.27	$33.72
5th 6 Months	70.00	$19.72	$7.81	$7.82	$0.56	$0.00	$0.78	$0.00	$0.00	$0.00	$36.69	$46.55
6th 6 Months is 3rd year	75.00	$21.13	$7.81	$8.38	$0.56	$0.00	$0.84	$0.00	$0.00	$0.00	$38.72	$49.28
7th 6 Months	80.00	$22.54	$7.81	$8.94	$0.56	$0.00	$0.90	$0.00	$0.00	$0.00	$40.75	$52.01
8th 6 Months is 4th year	85.00	$23.94	$7.81	$9.49	$0.56	$0.00	$0.95	$0.00	$0.00	$0.00	$42.75	$54.73

Special Calculation Note :

Ratio :

2 Journeymen to 1 Apprentice

Jurisdiction (* denotes special jurisdictional note) :

CARROLL, STARK, TUSCARAWAS, WAYNE

Special Jurisdictional Note :

Details :

Prevailing Wage Rate
Skilled Crafts

Name of Union: Carpenter Local 509 NE District Interior Systems

Change # : LCN01-2010mmLoc509Int Systems

Craft : Carpenter Effective Date : 06/17/2010 Last Posted : 06/17/2010

	BHR	Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
		H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification											
Carpenter Window Shade Venetian Blinds Drapery Installer	$15.50	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00			$15.50	$23.25

Special Calculation Note : No special calculations for this skilled craft wage rate are required at this time.

Ratio :

Jurisdiction (* denotes special jurisdictional note) :
ADAMS, ALLEN, ASHLAND, ASHTABULA, ATHENS, AUGLAIZE, BELMONT, BROWN, BUTLER, CARROLL, CHAMPAIGN, CLARK, CLERMONT, CLINTON, COLUMBIANA, COSHOCTON, CRAWFORD, CUYAHOGA, DARKE, DEFIANCE, DELAWARE, ERIE, FAIRFIELD, FRANKLIN, FULTON, GALLIA, GEAUGA, GREENE, GUERNSEY, HAMILTON, HANCOCK, HARDIN, HARRISON, HENRY, HIGHLAND, HOCKING, HOLMES, HURON, JACKSON, JEFFERSON, KNOX, LAKE,

LAWRENCE, LICKING, LOGAN, LORAIN, LUCAS, MADISON, MAHONING, MARION, MEDINA, MEIGS, MERCER, MIAMI, MONROE, MONTGOMERY, MORGAN, MORROW, MUSKINGUM, NOBLE, OTTAWA, PAULDING, PERRY, PICKAWAY, PIKE, PORTAGE, PREBLE, PUTNAM, RICHLAND, ROSS, SANDUSKY, SCIOTO, SENECA, SHELBY, STARK, SUMMIT, TRUMBULL, TUSCARAWAS, UNION, VAN WERT, VINTON, WARREN, WASHINGTON, WAYNE

Special Jurisdictional Note :

Details :

Prevailing Wage Rate
Skilled Crafts

Name of Union: Carpenter Millwright NE Zone M3

Change # : LCN01-2021fbLocNEZoneM3

Craft : Carpenter Effective Date : 05/21/2021 Last Posted : 05/21/2021

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Carpenter Millwright	$31.93		$7.85	$10.90	$0.56	$0.00	$2.07	$0.05	$0.00	$0.00	$53.36	$69.32
Certified Welder	$32.93		$7.85	$10.90	$0.56	$0.00	$2.07	$0.05	$0.00	$0.00	$54.36	$70.82
Lay-Out Man on Monorail	$33.43		$7.85	$10.90	$0.56	$0.00	$2.07	$0.05	$0.00	$0.00	$54.86	$71.57
Apprentice	**Percent**											
1st 6 months	60.00	$19.16	$7.85	$10.90	$0.56	$0.00	$2.07	$0.05	$0.00	$0.00	$40.59	$50.17
2nd 6 months	60.00	$19.16	$7.85	$10.90	$0.56	$0.00	$2.07	$0.05	$0.00	$0.00	$40.59	$50.17
3rd 6 months	62.00	$19.80	$7.85	$10.90	$0.56	$0.00	$2.07	$0.05	$0.00	$0.00	$41.23	$51.12
4th 6 months	65.50	$20.91	$7.85	$10.90	$0.56	$0.00	$2.07	$0.05	$0.00	$0.00	$42.34	$52.80
5th 6 months	69.00	$22.03	$7.85	$10.90	$0.56	$0.00	$2.07	$0.05	$0.00	$0.00	$43.46	$54.48
6th 6 months	72.50	$23.15	$7.85	$10.90	$0.56	$0.00	$2.07	$0.05	$0.00	$0.00	$44.58	$56.15
7th 6 months	76.00	$24.27	$7.85	$10.90	$0.56	$0.00	$2.07	$0.05	$0.00	$0.00	$45.70	$57.83
8th 6 months	80.00	$25.54	$7.85	$10.90	$0.56	$0.00	$2.07	$0.05	$0.00	$0.00	$46.97	$59.75

Special Calculation Note : Other $0.05 is UBC Millwright Promotional Fund

Ratio :

2 Journeymen to 1 Apprentice

Jurisdiction (* denotes special jurisdictional note) :

CARROLL, STARK, TUSCARAWAS, WAYNE

Special Jurisdictional Note :

Details :

The term "Millwright and Machine Erectors'" jurisdiction shall mean the unloading, hoisting, rigging, skidding, moving, dismantling, aligning, erecting, assembling, repairing, maintenance and adjusting of all

structures, processing areas either under cover, under ground or elsewhere, required to process material, handle, manufacture or service, be it powered or receiving power manually, by steam, gas, electricity, gasoline, diesel, nuclear, solar, water, air or chemically, and in industries such as and including, which are identified for the purpose of description, but not limited to, the following: woodworking plants; canning industries; steel mills; coffee roasting plants; paper and pulp; cellophane; stone crushing; gravel and sand washing and handling; refineries; grain storage and handling; asphalt plants; sewage disposal; water plants; laundries; bakeries; mixing plants; can, bottle and bag packing plants; textile mills; paint mills; breweries; milk processing plants; power plants; aluminum processing or manufacturing plants; and amusement and entertainment fields. The installation of mechanical equipment in atomic energy plants; installation of reactors in power plants; installation of control rods and equipment in reactors; and installation of mechanical equipment in rocket missile bases, launchers, launching gantry, floating bases, hydraulic escape doors and any and all component parts thereto, either assembled, semi-assembled or disassembled. The installation of, but not limited to, the following: setting-up of all engines, motors, generators, air compressors, fans, pumps, scales, hoppers, conveyors of all types, sizes and their supports; escalators; man lifts; moving sidewalks; hoists; dumb waiters; all types of feeding machinery; amusement devices; mechanical pin setters and spotters in bowling alleys; refrigeration equipment; and the installation of all types of equipment necessary and required to process material either in the manufacturing or servicing. The handling and installation of pulleys, gears, sheaves, fly wheels, air and vacuum drives, worm drives and gear drives directly or indirectly coupled to motors, belts, chains, screws, legs, boots, guards, booth tanks, all bin valves, turn heads and indicators, shafting, bearings, cable sprockets, cutting all key seats in new and old work, troughs, chippers, filters, calendars, rolls, winders, rewinders, slitters, cutters, wrapping machines, blowers, forging machines, rams, hydraulic or otherwise, planing, extruder, ball, dust collectors, equipment in meat packing plants, splicing of ropes and cables. The laying-out, fabrication and installation of protection equipment including machinery guards, making and setting of templates for machinery, fabrication of bolts, nuts, pans, drilling of holes for any equipment which the Millwrights install regardless of materials; all welding and burning regardless of type, fabrication of all lines, hose or tubing used in lubricating machinery installed by Millwrights; grinding, cleaning, servicing and any machine work necessary for any part of any equipment installed by the Millwrights; and the break-in and trial run of any equipment or machinery installed by the Millwrights. It is agreed the Millwrights shall use the layout tools and optic equipment necessary to perform their work.

Prevailing Wage Rate
Skilled Crafts

Name of Union: Carpenter NE District Industrial Dock & Door

Change # : LCN01-2014fbCarpNEStatewide

Craft : Carpenter Effective Date : 03/05/2014 Last Posted : 03/05/2014 fringe 4 6.20

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Carpenter	$19.70		$5.05	$1.00	$0.15	$0.00	$0.00	$0.00	$0.00	$0.00	$25.90	$35.75
Trainee	**Percent**											
1st Year	60.00	$11.82	$5.05	$1.00	$0.15	$0.00	$0.00	$0.00	$0.00	$0.00	$18.02	$23.93
2nd Year	80.20	$15.80	$5.05	$1.00	$0.15	$0.00	$0.00	$0.00	$0.00	$0.00	$22.00	$29.90

Special Calculation Note : No special calculations for this skilled craft wage rate are required at this time.

Ratio :

1 Journeymen to 1 Trainee

Jurisdiction (* denotes special jurisdictional note) :

ADAMS, ALLEN, ASHLAND, ASHTABULA, ATHENS, AUGLAIZE, BELMONT, BROWN, BUTLER, CARROLL, CHAMPAIGN, CLARK, CLERMONT, CLINTON, COLUMBIANA, COSHOCTON, CRAWFORD, CUYAHOGA, DARKE, DEFIANCE, DELAWARE, ERIE, FAIRFIELD, FAYETTE, FRANKLIN, FULTON, GALLIA, GEAUGA, GREENE, GUERNSEY, HAMILTON, HANCOCK, HARDIN, HARRISON, HENRY, HIGHLAND, HOCKING, HOLMES, HURON, JACKSON, JEFFERSON, KNOX, LAKE, LAWRENCE, LICKING, LOGAN, LORAIN, LUCAS, MADISON, MAHONING,

MARION, MEDINA, MEIGS, MERCER, MIAMI, MONROE, MONTGOMERY, MORGAN, MORROW, MUSKINGUM, NOBLE, OTTAWA, PAULDING, PERRY, PICKAWAY, PIKE, PORTAGE, PREBLE, PUTNAM, RICHLAND, ROSS, SANDUSKY, SCIOTO, SENECA, SHELBY, STARK, SUMMIT, TRUMBULL, TUSCARAWAS, UNION, VAN WERT, VINTON, WARREN, WASHINGTON, WAYNE, WILLIAMS, WOOD, WYANDOT

Special Jurisdictional Note : Industrial Dock and Door is the installation of overhead doors, roll up doors and dock leveling equipment

Details :
10/27/10 New Contract jc

Prevailing Wage Rate
Skilled Crafts

Name of Union: Carpenter Insulation NE Zone 2B

Change # : LCN01-2021fbLocNEZone2B

Craft : Carpenter **Effective Date :** 05/21/2021 **Last Posted :** 05/21/2021

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Carpenter Insulation	$22.54		$7.81	$11.17	$0.56	$0.00	$1.12	$0.00	$0.00	$0.00	$43.20	$54.47
Apprentice	Percent											
1st 3 months	50.00	$11.27	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$11.27	$16.91
2nd 3 months	50.00	$11.27	$7.81	$0.00	$0.56	$0.00	$0.00	$0.00	$0.00	$0.00	$19.64	$25.27
2nd 6 months	50.00	$11.27	$7.81	$0.00	$0.56	$0.00	$0.00	$0.00	$0.00	$0.00	$19.64	$25.27
3rd 6 months	55.00	$12.40	$7.81	$0.00	$0.56	$0.00	$0.00	$0.00	$0.00	$0.00	$20.77	$26.97
4th 6 months	60.00	$13.52	$7.81	$0.00	$0.56	$0.00	$0.00	$0.00	$0.00	$0.00	$21.89	$28.66
5th 6 months	70.00	$15.78	$7.81	$7.82	$0.56	$0.00	$0.78	$0.00	$0.00	$0.00	$32.75	$40.64
6th 6 months	75.00	$16.91	$7.81	$8.38	$0.56	$0.00	$0.84	$0.00	$0.00	$0.00	$34.50	$42.95
7th 6 months	80.00	$18.03	$7.81	$8.94	$0.56	$0.00	$0.90	$0.00	$0.00	$0.00	$36.24	$45.26
8th 6 months	85.00	$19.16	$7.81	$9.49	$0.56	$0.00	$0.95	$0.00	$0.00	$0.00	$37.97	$47.55

Special Calculation Note : No special calculations for this skilled craft wage rate are required at this time.

Ratio :

2 Journeymen to 1 Apprentice

Jurisdiction (* denotes special jurisdictional note) :

CARROLL, STARK, TUSCARAWAS, WAYNE

Special Jurisdictional Note :

Details :

Prevailing Wage Rate
Skilled Crafts

Name of Union: Carpenter Pile Driver NE Zone P3

Change # : LCN01-2021fbLocNEZoneP3

Craft : Carpenter Effective Date : 05/21/2021 Last Posted : 05/21/2021

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Carpenter Pile Driver	$28.18		$7.82	$10.90	$0.56	$0.00	$1.92	$0.00	$0.00	$0.00	$49.38	$63.47
Diver	$42.27		$7.82	$10.90	$0.56	$0.00	$1.92	$0.00	$0.00	$0.00	$63.47	$84.60
Certified Welder	$29.23		$7.82	$10.90	$0.56	$0.00	$1.92	$0.00	$0.00	$0.00	$50.43	$65.04
Apprentice	**Percent**											
1st 6 months	60.00	$16.91	$7.82	$10.90	$0.56	$0.00	$1.92	$0.00	$0.00	$0.00	$38.11	$46.56
2nd 6 months	60.00	$16.91	$7.82	$10.90	$0.56	$0.00	$1.92	$0.00	$0.00	$0.00	$38.11	$46.56
3rd 6 months	62.00	$17.47	$7.82	$10.90	$0.56	$0.00	$1.92	$0.00	$0.00	$0.00	$38.67	$47.41
4th 6 months	65.50	$18.46	$7.82	$10.90	$0.56	$0.00	$1.92	$0.00	$0.00	$0.00	$39.66	$48.89
5th 6 months	69.00	$19.44	$7.82	$10.90	$0.56	$0.00	$1.92	$0.00	$0.00	$0.00	$40.64	$50.37
6th 6 months	72.50	$20.43	$7.82	$10.90	$0.56	$0.00	$1.92	$0.00	$0.00	$0.00	$41.63	$51.85
7th 6 months	76.00	$21.42	$7.82	$10.90	$0.56	$0.00	$1.92	$0.00	$0.00	$0.00	$42.62	$53.33
8th 6 months	80.00	$22.54	$7.82	$10.90	$0.56	$0.00	$1.92	$0.00	$0.00	$0.00	$43.74	$55.02

Special Calculation Note : No special calculations for this skilled craft wage rate are required at this time.

Ratio :

2 Journeymen to 1 Apprentice

Jurisdiction (* denotes special jurisdictional note) :

STARK, WAYNE, CARROLL, TUSCARAWAS

Special Jurisdictional Note :

Details :

Pile Drivers duties shall include but not limited to: Pile driving, milling, fashioning, joining assembling, erecting, fastening, or dismantling of all material of wood, plastic, metal, fiber, cork and composition and all other substitute materials: pile driving, cutting, fitting and placing of lagging, and the handling, cleaning,

erecting, installing and dismantling of machinery, equipment and erecting pre-engineered metal buildings. Pile Drivers work but not limited to: unloading, assembling, erection, repairs, operation, signaling, dismantling and reloading all equipment that is used for pile driving including pule butts is defined as sheeting or scrap piling. Underwater work that may be required in connection with the installation of piling. The driver and his tender work as a team and shall arrive at their own financial arrangements with the contractor. Any configuration of wood, steel, concrete or composite that is jetted, driven or vibrated onto the ground by conventional pile driving equipment for the purpose of supporting a future load that may be permanent or temporary. The construction of all wharves and docks, including the fabrication and installation of floating docks. Driving bracing, plumbing, cutting off and capping of all piling whether wood, metal, pipe piling or composite, loading, unloading, erecting, framing, dismantling, moving and handling of pile driving equipment piling used in the construction and repair of all wharves, docks, piers, trestles, caissons, cofferdams and erection of all sea walls and breakwaters. All underwater and marine work on bulkheads, wharves, docks, shipyards, caissons, piers, bridges, pipeline, work, viaducts, marine cable and trestles, as well as salvage and reclamation work where divers are employed. Rate shall include carpenters, acoustic and ceiling installers, drywall installers, pile drivers and floorlayers.

Prevailing Wage Rate
Skilled Crafts

Name of Union: Carpenter Floorlayer NE Zone 2B

Change # : LCN01-2021fbLocNEZone2B

Craft : Carpenter **Effective Date :** 05/21/2021 **Last Posted :** 05/21/2021

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Carpenter Floorlayer	$28.17		$7.81	$11.17	$0.58	$0.00	$1.12	$0.00	$0.00	$0.00	$48.85	$62.94
Apprentice	Percent											
1st 3 Months	60.00	$16.90	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$16.90	$25.35
2nd 3 Months	60.00	$16.90	$7.81	$0.00	$0.58	$0.00	$0.00	$0.00	$0.00	$0.00	$25.29	$33.74
2nd 6 Months is 1st year	60.00	$16.90	$7.81	$0.00	$0.58	$0.00	$0.00	$0.00	$0.00	$0.00	$25.29	$33.74
3rd 6 Months	60.00	$16.90	$7.81	$0.00	$0.58	$0.00	$0.00	$0.00	$0.00	$0.00	$25.29	$33.74
4th 6 Months is 2nd year	60.00	$16.90	$7.81	$0.00	$0.58	$0.00	$0.00	$0.00	$0.00	$0.00	$25.29	$33.74
5th 6 Months	70.00	$19.72	$7.81	$7.82	$0.58	$0.00	$0.78	$0.00	$0.00	$0.00	$36.71	$46.57
6th 6 Months is 3rd year	75.00	$21.13	$7.81	$8.38	$0.58	$0.00	$0.84	$0.00	$0.00	$0.00	$38.74	$49.30
7th 6 Months	80.00	$22.54	$7.81	$8.94	$0.58	$0.00	$0.90	$0.00	$0.00	$0.00	$40.77	$52.03
8th 6 Months is 4th year	85.00	$23.94	$7.81	$9.49	$0.58	$0.00	$0.95	$0.00	$0.00	$0.00	$42.77	$54.75

Special Calculation Note :

Ratio :

2 Journeymen to 1 Apprentice

Jurisdiction (* denotes special jurisdictional note) :

CARROLL, STARK, TUSCARAWAS, WAYNE

Special Jurisdictional Note :

Details :

Prevailing Wage Rate
Skilled Crafts

Name of Union: Cement Mason Bricklayer Local 97 HevHwy A

Change # : LCN01-2021fbHvyHwy

Craft : Bricklayer **Effective Date :** 06/01/2021 **Last Posted :** 05/26/2021

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Cement Mason Bricklayer Sewer Water Works A	$30.40		$9.50	$7.57	$0.48	$0.00	$0.00	$0.00	$0.00	$0.00	$47.95	$63.15
Apprentice	Percent											
1st year	50.00	$15.20	$9.50	$7.57	$0.48	$0.00	$0.00	$0.00	$0.00	$0.00	$32.75	$40.35
2nd year	70.00	$21.28	$9.50	$7.57	$0.48	$0.00	$0.00	$0.00	$0.00	$0.00	$38.83	$49.47
3rd year	90.00	$27.36	$9.50	$7.57	$0.48	$0.00	$0.00	$0.00	$0.00	$0.00	$44.91	$58.59

Special Calculation Note : NOT FOR BUILDING CONSTRUCTION.

Ratio :

3 Journeymen to 1 Apprentice
6 Journeymen to 2 Apprentice
9 Journeymen to 3 Apprentice
12 Journeymen to 4 Apprentice
15 Journeymen to 5 Apprentice

Jurisdiction (* denotes special jurisdictional note) :

ADAMS, ALLEN, ASHLAND, ASHTABULA, ATHENS, AUGLAIZE, BELMONT, BROWN, BUTLER, CARROLL, CHAMPAIGN, CLARK, CLERMONT, CLINTON, COLUMBIANA, COSHOCTON, CRAWFORD, CUYAHOGA, DARKE, DEFIANCE, DELAWARE, ERIE, FAIRFIELD, FAYETTE, FRANKLIN, FULTON, GALLIA, GEAUGA, GREENE, GUERNSEY, HAMILTON, HANCOCK, HARDIN, HARRISON, HENRY, HIGHLAND, HOCKING, HOLMES, HURON, JACKSON, JEFFERSON, KNOX, LAKE, LAWRENCE, LICKING, LOGAN, LORAIN, LUCAS, MADISON, MAHONING, MARION, MEDINA, MEIGS, MERCER, MIAMI, MONROE, MONTGOMERY, MORGAN, MORROW, MUSKINGUM, NOBLE, OTTAWA, PAULDING, PERRY, PICKAWAY, PIKE, PORTAGE, PREBLE, PUTNAM, RICHLAND, ROSS, SANDUSKY, SCIOTO, SENECA, SHELBY, STARK, SUMMIT, TRUMBULL, TUSCARAWAS, UNION, VAN

WERT, VINTON, WARREN, WASHINGTON, WAYNE

Special Jurisdictional Note :

Details :

(A) Highway Construction, Sewer, Waterworks And Utility Construction, Industrial & Building Site Heavy Construction, Airport Construction Or Railroad Construction Work.
(B) Power Plant, Tunnels, Amusement Park, Athletic Stadium Site Work ,Pollution Control,Sewer Plant, Waste Plant, & Water Treatment Facilities, Construction.

Prevailing Wage Rate
Skilled Crafts

Name of Union: Cement Mason Bricklayer Local 97 HevHwy B

Change # : LCN01-2021fbHvyHwy

Craft : Bricklayer **Effective Date :** 06/01/2021 **Last Posted :** 05/26/2021

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Cement Mason Bricklayer Power Plants Tunnels Amusement Parks B	$31.39		$9.50	$7.57	$0.49	$0.00	$0.00	$0.00	$0.00	$0.00	$48.95	$64.64
Apprentice	Percent											
1st year	50.00	$15.70	$9.50	$7.57	$0.49	$0.00	$0.00	$0.00	$0.00	$0.00	$33.26	$41.10
2nd year	70.00	$21.97	$9.50	$7.57	$0.49	$0.00	$0.00	$0.00	$0.00	$0.00	$39.53	$50.52
3rd year	90.00	$28.25	$9.50	$7.57	$0.49	$0.00	$0.00	$0.00	$0.00	$0.00	$45.81	$59.94

Special Calculation Note : NOT FOR BUILDING CONSTRUCTION.

Ratio :

3 Journeymen to 1 Apprentice
6 Journeymen to 2 Apprentice
9 Journeymen to 2 Apprentice
12 Journeymen to 4 Apprentice
15 Journeymen to 5 Apprentice

Jurisdiction (* denotes special jurisdictional note) :

ADAMS, ALLEN, ASHLAND, ASHTABULA, ATHENS, AUGLAIZE, BELMONT, BROWN, BUTLER, CARROLL, CHAMPAIGN, CLARK, CLERMONT, CLINTON, COLUMBIANA, COSHOCTON, CRAWFORD, CUYAHOGA, DARKE, DEFIANCE, DELAWARE, ERIE, FAIRFIELD, FAYETTE, FRANKLIN, FULTON, GALLIA, GEAUGA, GREENE, GUERNSEY, HAMILTON, HANCOCK, HARDIN, HARRISON, HENRY, HIGHLAND, HOCKING, HOLMES, HURON, JACKSON, JEFFERSON, KNOX, LAKE, LAWRENCE, LICKING, LOGAN, LORAIN, LUCAS, MADISON, MAHONING, MARION, MEDINA, MEIGS, MERCER, MIAMI, MONROE, MONTGOMERY, MORGAN, MORROW, MUSKINGUM, NOBLE, OTTAWA, PAULDING, PERRY, PICKAWAY, PIKE, PORTAGE, PREBLE, PUTNAM, RICHLAND, ROSS, SANDUSKY, SCIOTO, SENECA, SHELBY, STARK, SUMMIT,

TRUMBULL, TUSCARAWAS, UNION, VAN WERT, VINTON, WARREN, WASHINGTON, WAYNE

Special Jurisdictional Note :

Details :

(A) Highway Construction, Sewer, Waterworks And Utility Construction, Industrial & Building Site Heavy Construction, Airport Construction Or Railroad Construction Work.
(B) Power Plant, Tunnels, Amusement Park, Athletic Stadium Site Work ,Pollution Control,Sewer Plant, Waste Plant, & Water Treatment Facilities, Construction.

Prevailing Wage Rate
Skilled Crafts

Name of Union: Cement Mason Statewide HevHwy Exhibit A District II

Change # : OCN01-2021fbCementHevHwy

Craft : Cement Mason **Effective Date :** 05/01/2021 **Last Posted :** 04/23/2021

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Cement Mason	$31.15		$8.25	$7.35	$0.65	$0.00	$2.25	$0.07	$0.00	$0.00	$49.72	$65.29
Apprentice	Percent											
1st Year	70.00	$21.80	$8.25	$7.35	$0.65	$0.00	$2.25	$0.07	$0.00	$0.00	$40.37	$51.28
2nd Year	80.00	$24.92	$8.25	$7.35	$0.65	$0.00	$2.25	$0.07	$0.00	$0.00	$43.49	$55.95
3rd Year	90.00	$28.03	$8.25	$7.35	$0.65	$0.00	$2.25	$0.07	$0.00	$0.00	$46.60	$60.62

Special Calculation Note : Other $0.07 is for International Training Fund

Ratio :

1 Journeymen to 1 Apprentice
2 to 1 thereafter

Jurisdiction (* denotes special jurisdictional note) :
ALLEN, AUGLAIZE, BROWN, BUTLER, CARROLL, CLERMONT, COLUMBIANA, DEFIANCE, ERIE, HAMILTON, HARDIN, HIGHLAND, HOLMES, HURON, LOGAN, LORAIN, MAHONING, MEDINA, MERCER, OTTAWA, PAULDING, PORTAGE, SANDUSKY, SENECA, STARK, SUMMIT, TRUMBULL, TUSCARAWAS, VAN WERT, WARREN, WAYNE, WILLIAMS

Special Jurisdictional Note : (A) Highway Construction, Sewer, Waterworks And Utility Construction, Industrial & Building Site, Heavy
Construction, Airport Construction Or Railroad Construction Work.

Details :

Prevailing Wage Rate
Skilled Crafts

Name of Union: Cement Mason Statewide HevHwy Exhibit B District II

Change # : OCN01-2021fbCementHevHwy

Craft : Cement Mason **Effective Date :** 05/01/2021 **Last Posted :** 04/23/2021

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Cement Mason	$32.02		$8.25	$7.35	$0.65	$0.00	$2.25	$0.07	$0.00	$0.00	$50.59	$66.60
Apprentice	Percent											
1st Year	70.00	$22.41	$8.25	$7.35	$0.65	$0.00	$2.25	$0.07	$0.00	$0.00	$40.98	$52.19
2nd Year	80.00	$25.62	$8.25	$7.35	$0.65	$0.00	$2.25	$0.07	$0.00	$0.00	$44.19	$56.99
3rd Year	90.00	$28.82	$8.25	$7.35	$0.65	$0.00	$2.25	$0.07	$0.00	$0.00	$47.39	$61.80

Special Calculation Note : Other $0.07 is for International Training Fund.

Ratio :

1 Journeymen to 1 Apprentice
2 to 1 thereafter

Jurisdiction (* denotes special jurisdictional note) :
ALLEN, AUGLAIZE, BROWN, BUTLER, CARROLL, CLERMONT, COLUMBIANA, DEFIANCE, ERIE, HAMILTON, HARDIN, HIGHLAND, HOLMES, HURON, LOGAN, LORAIN, MAHONING, MEDINA, MERCER, OTTAWA, PAULDING, PORTAGE, SANDUSKY, SENECA, STARK, SUMMIT, TRUMBULL, TUSCARAWAS, VAN WERT, WARREN, WAYNE, WILLIAMS

Special Jurisdictional Note : (B) Power Plant, Tunnels, Amusement Park, Athletic Stadium Site Work ,Pollution Control,Sewer Plant,
Waste Plant, & Water Treatment Facilities, Construction.

Details :

Prevailing Wage Rate
Skilled Crafts

Name of Union: Cement Mason & Plasterer Local 109

Change # : LCN01-2020fbLoc109

Craft : Cement Effective Date : 07/09/2020 Last Posted : 07/09/2020

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Cement Mason	$30.04		$8.89	$7.15	$0.40	$0.00	$4.25	$0.06	$0.00	$0.00	$50.79	$65.81
Plasterer	$29.33		$8.39	$7.15	$0.40	$0.00	$4.00	$0.06	$0.00	$0.00	$49.33	$64.00
Apprentice Cement Mason	**Percent**											
1st year	70.52	$21.18	$8.89	$7.15	$0.40	$0.00	$4.25	$0.06	$0.00	$0.00	$41.93	$52.53
2nd year	80.36	$24.14	$8.89	$7.15	$0.40	$0.00	$4.25	$0.06	$0.00	$0.00	$44.89	$56.96
3rd year	90.18	$27.09	$8.89	$7.15	$0.40	$0.00	$4.25	$0.06	$0.00	$0.00	$47.84	$61.39
Plasterer Apprentice												
1st year	68.89	$20.69	$8.39	$7.15	$0.40	$0.00	$4.00	$0.06	$0.00	$0.00	$40.69	$51.04
2nd year	78.45	$23.57	$8.39	$7.15	$0.40	$0.00	$4.00	$0.06	$0.00	$0.00	$43.57	$55.35
3rd year	88.05	$26.45	$8.39	$7.15	$0.40	$0.00	$4.00	$0.06	$0.00	$0.00	$46.45	$59.68

Special Calculation Note : Other is for International Training.

Ratio :

1 Journeymen to 1 Apprentice
5 Journeymen to 2 Apprentice

Jurisdiction (* denotes special jurisdictional note) :
CARROLL, HOLMES, MEDINA, PORTAGE, STARK, SUMMIT, TUSCARAWAS, WAYNE

Special Jurisdictional Note :

Details :
Finishers when applying colorshake shall be paid an additional $2.00 per DAY.
Swing Scaffolds up to 50 feet shall be paid $0.25 above the Journeymen rate.
Swing Scaffolds over 50 feet shall be paid $0.35 above the Journeymen rate.

Prevailing Wage Rate
Skilled Crafts

Name of Union: Electrical Local 540 Inside

Change # : LCN01-2020fbLoc540in

Craft : Electrical **Effective Date :** 01/05/2021 **Last Posted :** 01/05/2021

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Electrician	$34.00		$6.40	$9.70	$1.05	$3.40	$3.83	$1.12	$0.00	$0.00	$59.50	$76.50
Apprentice	Percent											
1st 1000 hrs	40.00	$13.60	$6.40	$0.00	$0.38	$0.00	$0.00	$0.41	$0.00	$0.00	$20.79	$27.59
2nd 1000 hrs	45.00	$15.30	$6.40	$0.00	$0.43	$0.00	$0.00	$0.46	$0.00	$0.00	$22.59	$30.24
3rd 1500 hrs	50.00	$17.00	$6.40	$1.94	$0.51	$1.36	$0.77	$0.55	$0.00	$0.00	$28.53	$37.03
4th 1500 hrs	60.00	$20.40	$6.40	$3.88	$0.62	$1.63	$1.53	$0.66	$0.00	$0.00	$35.12	$45.32
5th 1500 hrs	70.00	$23.80	$6.40	$5.82	$0.72	$1.90	$2.30	$0.77	$0.00	$0.00	$41.71	$53.61
6th 1500 hrs	80.00	$27.20	$6.40	$7.76	$0.82	$2.18	$3.06	$0.88	$0.00	$0.00	$48.30	$61.90

Special Calculation Note : OTHER = (NEBF) National Electrical Benefit Fund. Vacation contribution is equal to 8% of the gross weekly wages.

Ratio :

The first person assigned to any job site shall be a Journeyman Wireman. Ratio thereafter:

1-3 Journeymen to 2 Apprentices
4 to 6 Journeymen up to 4 Apprentices
7 to 9 Journeymen up to 6 Apprentices

Jurisdiction (* denotes special jurisdictional note) :
CARROLL*, COLUMBIANA*, HOLMES, MAHONING*, STARK, TUSCARAWAS*, WAYNE*

Special Jurisdictional Note : Carroll County: North half including; Fox, Harrison, Rose and Washington Townships.
Columbiana County: Knox Township only.
Mahoning County: Smith Township only.
Tuscarawas County: That portion North of Auburn, Clay, Rush and York Townships.
Wayne County: That portion south of Baughman, Chester, Green, Wayne and Wooster Townships.

Details :

Prevailing Wage Rate
Skilled Crafts

Name of Union: Electrical Local 540 Inside Lt Commercial Northern

Change # : LCN01-2021fbLoc540in

Craft : Electrical **Effective Date :** 01/05/2021 **Last Posted :** 01/05/2021

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Electrician	$34.00		$6.40	$9.70	$1.05	$3.40	$3.83	$1.12	$0.00	$0.00	$59.50	$76.50
CE-3 12,001-14,000 Hrs	$25.63		$6.15	$0.00	$0.83	$0.00	$0.77	$0.77	$0.00	$0.00	$34.15	$46.97
CE-2 10,001-12,000 Hrs	$20.14		$6.15	$0.00	$0.83	$0.00	$0.60	$0.60	$0.00	$0.00	$28.32	$38.39
CE-1 8,001-10,000 Hrs	$18.31		$6.15	$0.00	$0.83	$0.00	$0.55	$0.55	$0.00	$0.00	$26.39	$35.54
CW-4 6,001-8,000 Hrs	$16.48		$6.15	$0.00	$0.83	$0.00	$0.49	$0.49	$0.00	$0.00	$24.44	$32.68
CW-3 4,001-6,000 Hrs	$14.65		$6.15	$0.00	$0.83	$0.00	$0.44	$0.44	$0.00	$0.00	$22.51	$29.83
CW-2 2,001-4,000 Hrs	$13.73		$6.15	$0.00	$0.83	$0.00	$0.41	$0.41	$0.00	$0.00	$21.53	$28.39
CW-1 0-2,000 Hrs	$12.82		$6.15	$0.00	$0.83	$0.00	$0.38	$0.38	$0.00	$0.00	$20.56	$26.97
Apprentice	Percent											
1st 1000 hrs	40.00	$13.60	$6.40	$0.00	$0.38	$0.00	$0.00	$0.41	$0.00	$0.00	$20.79	$27.59
2nd 1000 hrs	45.00	$15.30	$6.40	$0.00	$0.43	$0.00	$0.00	$0.46	$0.00	$0.00	$22.59	$30.24
3rd 1500 hrs	50.00	$17.00	$6.40	$1.94	$0.51	$1.36	$0.77	$0.55	$0.00	$0.00	$28.53	$37.03
4th 1500 hrs	60.00	$20.40	$6.40	$3.88	$0.62	$1.63	$1.53	$0.66	$0.00	$0.00	$35.12	$45.32
5th 1500 hrs	70.00	$23.80	$6.40	$5.82	$0.72	$1.90	$2.30	$0.77	$0.00	$0.00	$41.71	$53.61
6th 1500 hrs	80.00	$27.20	$6.40	$7.76	$0.82	$2.18	$3.06	$0.88	$0.00	$0.00	$48.30	$61.90

Special Calculation Note : OTHER = (NEBF) National Electrical Benefit Fund

Ratio :

1 to 3 Journeymen to 2 Apprentices
4 to 6 Journeymen up to 4 Apprentices
7 to 9 Journeymen up to 6 Apprentices

Jurisdiction (* denotes special jurisdictional note) :

CARROLL*, COLUMBIANA*, HOLMES, MAHONING*, STARK, TUSCARAWAS*, WAYNE*

Construction Electrician and Construction Wireman
Ratio
There shall be a minimum ratio of one inside Journeyman Wireman to every (4) employees of different classifications per jobsite. An Inside Journeyman Wireman is required on the project as the fifth (5th) worker or when apprentices are used.

Special Jurisdictional Note : Carroll County: North half including; Fox, Harrison, Rose and Washington Townships.
Columbiana County: Knox Township only.
Mahoning County: Smith Township only.
Tuscarawas County: That portion North of Auburn, Clay, Rush and York Townships.
Wayne County: That portion south of Baughman, Chester, Green, Wayne and Wooster Townships.

The scope of work for the light commercial agreement shall apply to the following small medical clinics, stand-alone doctor and dentist offices with up to 600 amp service (not attached to a hospital), gas stations/convenience stores, fast food restaurants and franchised chain restaurants including independent bars and taverns, places of worship, funeral homes, nursing homes, assisted living facilities and day-care facilities under 15,000 sq ft, small office, retail/wholesale facilities under 15,000 sq ft with less than 10 units attached, storage units, car washes, express hotels and motels (4 stories or less) without conference or restaurants facilities, residential units (subject to Davis Bacon Rates) small stand-alone manufacturing facilities when free standing and not part of a larger facility (less than 15,000 sq ft) solar projects (500 panels or less) unless other wise covered under this agreement, lighting retrofits (when not associated with remodels involving branch re-circuiting) Lighting retrofits shall be defined as the changing of lamps and ballasts in existing light fixtures and shall also include the one for one replacement of existing fixtures.

Details :

Prevailing Wage Rate
Skilled Crafts

Name of Union: Electrical Local 540 Voice Data Video

Change # : LCN01-2021sksLoc540VDV

Craft : Voice Data Video **Effective Date :** 08/31/2021 **Last Posted :** 08/25/2021

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Electrical Installer Technician	$22.85		$6.40	$4.79	$0.57	$2.29	$2.07	$0.75	$0.00	$0.00	$39.72	$51.15
Cable Puller	$13.02		$6.40	$0.00	$0.29	$0.00	$0.39	$0.39	$0.00	$0.00	$20.49	$27.00
Apprentice Starting Prior to 08/01/2020												
2nd Step 65%	$14.85		$6.40	$0.00	$0.36	$1.19	$0.00	$0.48	$0.00	$0.00	$23.28	$30.70
3rd Step 75%	$17.14		$6.40	$4.79	$0.42	$1.37	$2.07	$0.56	$0.00	$0.00	$32.75	$41.32
4th Step 80%	$18.28		$6.40	$4.79	$0.44	$1.46	$2.07	$0.59	$0.00	$0.00	$34.03	$43.17
5th Step 85%	$19.42		$6.40	$4.79	$0.47	$1.55	$2.07	$0.63	$0.00	$0.00	$35.33	$45.04
6th Step 90%	$20.57		$6.40	$4.79	$0.50	$1.65	$2.07	$0.67	$0.00	$0.00	$36.65	$46.94
Apprentice Starting After 08/01/2020	**Percent**											
1st Step	60.00	$13.71	$6.40	$0.00	$0.31	$0.00	$1.24	$0.41	$0.00	$0.00	$22.07	$28.92
2nd Step	65.00	$14.85	$6.40	$3.11	$0.36	$1.19	$1.35	$0.48	$0.00	$0.00	$27.74	$35.17
3rd Step	75.00	$17.14	$6.40	$3.59	$0.42	$1.37	$1.55	$0.56	$0.00	$0.00	$31.03	$39.60
4th Step	85.00	$19.42	$6.40	$4.07	$0.47	$1.55	$1.76	$0.63	$0.00	$0.00	$34.30	$44.01

Special Calculation Note : OTHER = (NEBF) National Electrical Benefit Fund.

VACATION PAY - For Journeymen is 10% of wages and 8% for Apprentices.

Ratio :

1-3 Journeyman to 2 Apprentice
4-6 Journeyman to 4 Apprentice

Jurisdiction (* denotes special jurisdictional note) :

CARROLL*, COLUMBIANA*, HOLMES, MAHONING*, STARK, TUSCARAWAS*, WAYNE*

** Exception - When fire alarm falls within the scope of this addendum, Cable Pullers can be used to aid in test and be the 2nd Teledata employee on the job

Special Jurisdictional Note : Carroll County includes the following townships: North half including Fox, Harrison, Rose and Washington. Tuscarawas County includes the following townships: The portion North of Auburn, Clay, Rush and York. Wayne County includes the following townships: The portion South of Baughman, Chester, Green, and Wayne. Columbiana County includes Knox township. Mahoning County includes Smith township.

Details :

CABLE PULLERS - are for the installation of cable from one termination point to another.

The following work is EXCLUDED from the Teledata Technician work scope:

* - Installation of computer systems in industrial applications such as assembly lines, robotics, computer controller manufacturing systems.
* - Installation of conduit and/ or raceways shall be installed by Inside Wireman . On sites where there is no Inside Wireman employed, the Teledata Technician may install raceway, or conduit not greater than 10 feet.
* - Fire Alarm work on all new construction sites or wherever the fire alarm system is installed in conduit.
* - All HVAC control work.

Prevailing Wage Rate
Skilled Crafts

Name of Union: Electrical Local 71 High Tension Pipe Type Cable

Change # : LCN01-2021fbLoc7

Craft : Lineman **Effective Date :** 03/16/2021 **Last Posted :** 03/16/2021

	BHR	Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
		H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification											
Electrical Lineman	$45.61	$6.75	$1.37	$0.46	$0.00	$10.95	$0.60	$0.00	$0.00	$65.74	$88.54
Certified Lineman Welder	$45.61	$6.75	$1.37	$0.46	$0.00	$10.95	$0.60	$0.00	$0.00	$65.74	$88.54
Certified Cable Splicer	$45.61	$6.75	$1.37	$0.46	$0.00	$10.95	$0.60	$0.00	$0.00	$65.74	$88.54
Operator A	$40.88	$6.75	$1.23	$0.41	$0.00	$9.81	$0.60	$0.00	$0.00	$59.68	$80.12
Operator B	$36.20	$6.75	$1.09	$0.36	$0.00	$8.69	$0.60	$0.00	$0.00	$53.69	$71.79
Operator C	$29.12	$6.75	$0.87	$0.29	$0.00	$6.99	$0.60	$0.00	$0.00	$44.62	$59.18
Groundman 0-12 months Exp	$22.81	$6.75	$0.68	$0.23	$0.00	$5.47	$0.60	$0.00	$0.00	$36.54	$47.94
Groundman 0-12 months Exp w/CDL	$25.09	$6.75	$0.75	$0.25	$0.00	$6.02	$0.60	$0.00	$0.00	$39.46	$52.01
Groundman 1 yr or more	$25.09	$6.75	$0.75	$0.25	$0.00	$6.02	$0.60	$0.00	$0.00	$39.46	$52.01
Groundman 1 yr or more w/CDL	$29.65	$6.75	$0.85	$0.28	$0.00	$6.50	$0.60	$0.00	$0.00	$44.63	$59.46
Equipment Mechanic A	$36.20	$6.75	$1.09	$0.36	$0.00	$8.69	$0.60	$0.00	$0.00	$53.69	$71.79
Equipment Mechanic B	$32.66	$6.75	$0.98	$0.33	$0.00	$7.84	$0.60	$0.00	$0.00	$49.16	$65.49
Equipment Mechanic C	$29.12	$6.75	$0.87	$0.29	$0.00	$6.99	$0.60	$0.00	$0.00	$44.62	$59.18
X-Ray Technician	$45.61	$6.75	$1.37	$0.46	$0.00	$10.95	$0.60	$0.00	$0.00	$65.74	$88.54

Apprentice	Percent											
1st 1000 hrs	60.00	$27.37	$6.75	$0.82	$0.27	$0.00	$6.57	$0.60	$0.00	$0.00	$42.38	$56.06
2nd 1000 hrs	65.00	$29.65	$6.75	$0.89	$0.30	$0.00	$7.12	$0.60	$0.00	$0.00	$45.31	$60.13
3rd 1000 hrs	70.00	$31.93	$6.75	$0.96	$0.32	$0.00	$7.66	$0.60	$0.00	$0.00	$48.22	$64.18
4th 1000 hrs	75.00	$34.21	$6.75	$1.03	$0.34	$0.00	$8.21	$0.60	$0.00	$0.00	$51.14	$68.24
5th 1000 hrs	80.00	$36.49	$6.75	$1.09	$0.36	$0.00	$8.76	$0.60	$0.00	$0.00	$54.05	$72.29
6th 1000 hrs	85.00	$38.77	$6.75	$1.16	$0.39	$0.00	$9.30	$0.60	$0.00	$0.00	$56.97	$76.35
7th 1000 hrs	90.00	$41.05	$6.75	$1.23	$0.41	$0.00	$9.85	$0.60	$0.00	$0.00	$59.89	$80.41

Special Calculation Note : Other is Health Retirement Account

Operator "A"
John Henry Rock Drill, D-6 (or equivalent) and above, Trackhoe Digger, (320 Track excavator), Cranes (greater then 25 tons and less than 45 tons).

Operator "B"
Cranes (greater than 6 tons and up to 25 tons), Backhoes, Road Tractor, Dozer up to D-5, Pressure Digger- wheeled or tracked, all Tension wire Stringing equipment.

Operator "C"
Trench, Backhoe, Riding type vibratory Compactor, Ground Rod Driver, Boom Truck (6 ton & below), Skid Steer Loaders, Material Handler.

*All Operators of cranes 45 ton or larger shall be paid the journeyman rate of pay. $0.30 is for Health Retirement Account.

Ratio :

1 Journeyman to 1 Apprentice

Jurisdiction (* denotes special jurisdictional note) :

ADAMS, ASHLAND, ASHTABULA, ATHENS, AUGLAIZE, BELMONT, BROWN, BUTLER, CARROLL, CHAMPAIGN, CLARK, CLERMONT, CLINTON, COLUMBIANA, COSHOCTON, CRAWFORD, CUYAHOGA, DARKE, DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, GALLIA, GEAUGA, GREENE, GUERNSEY, HAMILTON, HARRISON, HIGHLAND, HOCKING, HOLMES, JACKSON, JEFFERSON, KNOX, LAKE, LAWRENCE, LICKING, LOGAN, LORAIN, MADISON, MAHONING, MARION, MEDINA, MEIGS, MERCER, MIAMI, MONROE, MONTGOMERY, MORGAN, MORROW, MUSKINGUM, NOBLE, PERRY, PICKAWAY, PIKE, PORTAGE, PREBLE, RICHLAND, ROSS, SCIOTO, SHELBY, STARK, SUMMIT, TRUMBULL, TUSCARAWAS, UNION, VINTON,

WARREN, WASHINGTON, WAYNE

Special Jurisdictional Note :

Details :

Heli - Arc Welding will be paid $.30 above Journeyman rate. Additional compensation of 10% over the Journeyman Lineman and Journeyman Technician for performing work on structures outside of buildings such as water towers, smoke stacks, radio and television towers, more than 75' above the ground.

Prevailing Wage Rate
Skilled Crafts

Name of Union: Electrical Local 71 Outside Utility Power

Change # : LCN01-2021fbLoc7

Craft : Lineman **Effective Date :** 03/16/2021 **Last Posted :** 03/16/2021

	BHR	Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
		H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification											
Electrical Lineman	$43.22	$6.75	$1.30	$0.43	$0.00	$10.37	$0.60	$0.00	$0.00	$62.67	$84.28
Substation Technician	$43.22	$6.75	$1.30	$0.43	$0.00	$10.37	$0.60	$0.00	$0.00	$62.67	$84.28
Cable Splicer	$45.26	$6.75	$1.36	$0.45	$0.00	$10.86	$0.60	$0.00	$0.00	$65.28	$87.91
Operator A	$38.75	$6.75	$1.16	$0.39	$0.00	$9.30	$0.60	$0.00	$0.00	$56.95	$76.32
Operator B	$34.27	$6.75	$1.03	$0.34	$0.00	$8.22	$0.60	$0.00	$0.00	$51.21	$68.34
Operator C	$27.54	$6.75	$0.83	$0.28	$0.00	$6.61	$0.60	$0.00	$0.00	$42.61	$56.38
Groundman 0-12 months Exp	$21.61	$6.75	$0.65	$0.22	$0.00	$5.19	$0.60	$0.00	$0.00	$35.02	$45.82
Groundman 0-12 months Exp w/CDL	$23.77	$6.75	$0.71	$0.24	$0.00	$5.70	$0.60	$0.00	$0.00	$37.77	$49.66
Groundman 1 yr or more	$23.77	$6.75	$0.71	$0.24	$0.00	$5.70	$0.60	$0.00	$0.00	$37.77	$49.66
Groundman 1 yr or more w/CDL	$28.09	$6.75	$0.84	$0.28	$0.00	$6.74	$0.60	$0.00	$0.00	$43.30	$57.35
Equipment Mechanic A	$34.27	$6.75	$1.03	$0.34	$0.00	$8.22	$0.60	$0.00	$0.00	$51.21	$68.34
Equipment Mechanic B	$30.91	$6.75	$0.93	$0.31	$0.00	$7.42	$0.60	$0.00	$0.00	$46.92	$62.38
Equipment Mechanic C	$27.54	$6.75	$0.83	$0.28	$0.00	$6.61	$0.60	$0.00	$0.00	$42.61	$56.38
Line Truck w/uuger	$30.44	$6.75	$0.91	$0.30	$0.00	$7.31	$0.60	$0.00	$0.00	$46.31	$61.53
Apprentice	**Percent**										

1st 1000 hrs	60.00	$25.93	$6.75	$0.78	$0.26	$0.00	$6.22	$0.60	$0.00	$0.00	$40.54	$53.51
2nd 1000 hrs	65.00	$28.09	$6.75	$0.84	$0.28	$0.00	$6.74	$0.60	$0.00	$0.00	$43.30	$57.35
3rd 1000 hrs	70.00	$30.25	$6.75	$0.91	$0.30	$0.00	$7.26	$0.60	$0.00	$0.00	$46.07	$61.20
4th 1000 hrs	75.00	$32.42	$6.75	$0.97	$0.32	$0.00	$7.78	$0.60	$0.00	$0.00	$48.84	$65.04
5th 1000 hrs	80.00	$34.58	$6.75	$1.04	$0.35	$0.00	$8.30	$0.60	$0.00	$0.00	$51.62	$68.90
6th 1000 hrs	85.00	$36.74	$6.75	$1.10	$0.37	$0.00	$8.82	$0.60	$0.00	$0.00	$54.38	$72.75
7th 1000 hrs	90.00	$38.90	$6.75	$1.17	$0.39	$0.00	$9.34	$0.60	$0.00	$0.00	$57.15	$76.60

Special Calculation Note : Other is Health Retirement Account
Operator "A"
John Henry Rock Drill, D-6 (or equivalent) and above, Trackhoe Digger, (320 Track excavator), Cranes (greater then 25 tons and less than 45 tons).

Operator "B"
Cranes (greater than 6 tons and up to 25 tons), Backhoes, Road Tractor, Dozer up to D-5, Pressure Digger- wheeled or tracked, all Tension wire Stringing equipment.

Operator "C"
Trench, Backhoe, Riding type vibratory Compactor, Ground Rod Driver, Boom Truck (6 ton & below), Skid Steer Loaders, Material Handler.

Ratio :

(1) Journeyman Lineman to (1) Apprentice

Jurisdiction (* denotes special jurisdictional note) :

ADAMS, ASHLAND, ASHTABULA, ATHENS, AUGLAIZE, BELMONT, BROWN, BUTLER, CARROLL, CHAMPAIGN, CLARK, CLERMONT, CLINTON, COLUMBIANA, COSHOCTON, CRAWFORD, CUYAHOGA, DARKE, DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, GALLIA, GEAUGA, GREENE, GUERNSEY, HAMILTON, HARRISON, HIGHLAND, HOCKING, HOLMES, JACKSON, JEFFERSON, KNOX, LAKE, LAWRENCE, LICKING, LOGAN, LORAIN, MADISON, MAHONING, MARION, MEDINA, MEIGS, MERCER, MIAMI, MONROE, MONTGOMERY, MORGAN, MORROW, MUSKINGUM, NOBLE, PERRY, PICKAWAY, PIKE, PORTAGE, PREBLE, RICHLAND, ROSS, SCIOTO, SHELBY, STARK, SUMMIT, TRUMBULL, TUSCARAWAS, UNION, VINTON, WARREN, WASHINGTON, WAYNE

Special Jurisdictional Note : 0.30 is for Health Retirement Account.

Details :
Heli - Arc Welding will be paid $.30 above Journeyman rate. Additional compensation of 10% over the

Journeyman Lineman and Journeyman Technician for performing work on structures outside of buildings such as water towers, smoke stacks, radio and television towers, more than 75' above the ground.

Prevailing Wage Rate
Skilled Crafts

Name of Union: Electrical Local 71 Outside (North Central Ohio)

Change # : LCN01-2021fbLoc71CentralOhio

Craft : Lineman Effective Date : 03/16/2021 Last Posted : 03/16/2021

	BHR	Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
		H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification											
Electrical Lineman	$40.31	$6.75	$1.21	$0.40	$0.00	$7.66	$0.06	$0.00	$0.00	$56.39	$76.54
Traffic Signal & Lighting Journeyman	$38.77	$6.75	$1.16	$0.39	$0.00	$7.37	$0.06	$0.00	$0.00	$54.50	$73.89
Equipment Operator	$35.41	$6.75	$1.06	$0.35	$0.00	$6.73	$0.06	$0.00	$0.00	$50.36	$68.06
Groundman 0-12 months (W/O CDL)	$21.47	$6.75	$0.64	$0.21	$0.00	$4.08	$0.06	$0.00	$0.00	$33.21	$43.95
Groundman 0-12 months (W/CDL) plus	$23.46	$6.75	$0.70	$0.23	$0.00	$4.46	$0.06	$0.00	$0.00	$35.66	$47.39
Groundsman greater than 1 Year (W/CDL)	$25.45	$6.75	$0.76	$0.25	$0.00	$4.84	$0.06	$0.00	$0.00	$38.11	$50.83
Traffic Signal Apprentices											
1st 1,000 hours	$23.26	$6.75	$0.70	$0.23	$0.00	$4.42	$0.06	$0.00	$0.00	$35.42	$47.05
2nd 1,000 hours	$25.20	$6.75	$0.76	$0.25	$0.00	$4.79	$0.06	$0.00	$0.00	$37.81	$50.41
3rd 1,000 hours	$27.14	$6.75	$0.81	$0.27	$0.00	$5.16	$0.06	$0.00	$0.00	$40.19	$53.76
4th 1,000 hours	$29.08	$6.75	$0.87	$0.29	$0.00	$5.53	$0.06	$0.00	$0.00	$42.58	$57.12
5th 1,000 hours	$31.01	$6.75	$0.93	$0.31	$0.00	$5.89	$0.06	$0.00	$0.00	$44.95	$60.46
6th 1,000 hours	$34.89	$6.75	$1.05	$0.35	$0.00	$6.63	$0.06	$0.00	$0.00	$49.73	$67.17
Apprentice Lineman	**Percent**										

1st 1,000 Hours	60.00	$24.19	$6.75	$0.73	$0.24	$0.00	$4.60	$0.06	$0.00	$0.00	$36.57	$48.66
2nd 1,000 Hours	65.00	$26.20	$6.75	$0.79	$0.26	$0.00	$4.98	$0.06	$0.00	$0.00	$39.04	$52.14
3rd 1,000 Hours	70.00	$28.22	$6.75	$0.85	$0.28	$0.00	$5.36	$0.06	$0.00	$0.00	$41.52	$55.63
4th 1,000 Hours	75.00	$30.23	$6.75	$0.91	$0.30	$0.00	$5.74	$0.06	$0.00	$0.00	$43.99	$59.11
5th 1,000 Hours	80.00	$32.25	$6.75	$0.97	$0.32	$0.00	$6.13	$0.06	$0.00	$0.00	$46.48	$62.60
6th 1,000 Hours	85.00	$34.26	$6.75	$1.03	$0.34	$0.00	$6.51	$0.06	$0.00	$0.00	$48.95	$66.09
7th 1,000 Hours	90.00	$36.28	$6.75	$1.09	$0.36	$0.00	$6.89	$0.06	$0.00	$0.00	$51.43	$69.57

Special Calculation Note : Other is Safety & Education Fund.

Ratio :

1 Journeymen to 1 Apprentice

Jurisdiction (* denotes special jurisdictional note) :

BELMONT, CARROLL, HARRISON, HOLMES, JEFFERSON, MEDINA, PORTAGE, STARK, SUMMIT, WAYNE

Special Jurisdictional Note :

Details :

A groundman when directed shall assist a Journeyman in the performance of his/her work on the ground, including the use of hand tools. A Groundman under no circumstances shall climb poles, towers,ladders, or work from an elevated platform or bucket truck.

No more than three (3) Groundmen shall work alone. Jobs with more that three Groundmen shall be supervised by a Groundcrew Foreman, Journeyman Lineman, Journeyman Traffic Signal Technician or an Equipment Operator.

Scope of Work: installation and maintenance of highway and street lighting, highway and street sign lighting, electronic message boards and traffic control systems, camera systems, traffic signal work, substation and line construction including overhead and underground projects for private and industrial work as in accordance with the IBEW Constitution. This Agreement includes the operation of all tools and equipment necessary for the installation of the above projects.

Prevailing Wage Rate
Skilled Crafts

Name of Union: Electrical Local 71 Voice Data Video Outside

Change # : LCR01-2017fbLoc71VDV

Craft : Voice Data Video Effective Date : 10/18/2017 Last Posted : 10/18/2017

	BHR	Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
		H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification											
Electrical Installer Technician I	$23.46	$5.50	$0.70	$0.00	$0.00	$0.30	$0.00	$0.00	$0.00	$29.96	$41.69
Installer Technician II	$22.37	$5.50	$0.67	$0.00	$0.00	$0.30	$0.00	$0.00	$0.00	$28.84	$40.03
Equipment Operator I	$22.37	$5.50	$0.67	$0.00	$0.00	$0.30	$0.00	$0.00	$0.00	$28.84	$40.03
Equipment Operator II	$18.43	$5.50	$0.55	$0.00	$0.00	$0.30	$0.00	$0.00	$0.00	$24.78	$33.99
Installer /Repair Outside	$22.37	$5.50	$0.67	$0.00	$0.00	$0.30	$0.00	$0.00	$0.00	$28.84	$40.03
Ground Driver V/CDL	$15.83	$5.50	$0.47	$0.00	$0.00	$0.30	$0.00	$0.00	$0.00	$22.10	$30.01
Groundman	$13.24	$5.50	$0.40	$0.00	$0.00	$0.30	$0.00	$0.00	$0.00	$19.44	$26.06
Cable Splicer	$23.46	$5.50	$0.70	$0.00	$0.00	$0.30	$0.00	$0.00	$0.00	$29.96	$41.69

Special Calculation Note :

Ratio :

Jurisdiction (* denotes special jurisdictional note) :
ADAMS, ASHLAND, ASHTABULA, ATHENS, AUGLAIZE, BELMONT, BROWN, BUTLER, CARROLL, CHAMPAIGN, CLARK, CLERMONT, CLINTON, COLUMBIANA, COSHOCTON, CRAWFORD, CUYAHOGA, DARKE, DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, GALLIA, GEAUGA, GREENE, GUERNSEY, HAMILTON, HARRISON, HIGHLAND, HOCKING, HOLMES, JACKSON, JEFFERSON, KNOX, LAKE, LAWRENCE, LICKING, LOGAN, LORAIN, MADISON, MAHONING, MARION, MEDINA, MEIGS, MERCER, MIAMI, MONROE, MONTGOMERY, MORGAN, MORROW, MUSKINGUM, NOBLE, PERRY, PICKAWAY, PIKE, PORTAGE, PREBLE, RICHLAND, ROSS, SCIOTO, SHELBY, STARK, SUMMIT, TRUMBULL, TUSCARAWAS, UNION, VINTON, WARREN, WASHINGTON, WAYNE

Special Jurisdictional Note :

Details :
Cable Splicer: Inspect and test lines or cables, analyze results, and evaluate transmission characteristics. Cover conductors with insulation or seal splices with moisture-proof covering. Install, splice, test, and repair cables using tools or mechanical equipment. This will include the splicing of

fiber.

Journeyman Technician I: Must know all aspects of telephone and cable work. This is to include aerial, underground, and manhole work. Must know how to climb and run bucket. Must have all the tools required to perform these tasks. Must be able to be responsible for the safety of the crew at all times. Must also have CDL license and have at least 5 years experience.

.staller/Repairman: Perform tasks of repairing, installing, and testing phone and CATV services.

Technician II: Have at least three years of telephone and CATV experience. Must have the knowledge of underground, aerial, and manhole work. Must be able to climb and operate bucket. Must have CDL. Must have all tools needed to perform these tasks.

Equipment Operator I: Able to operate a digger derrick or bucket truck. Have at least 5 years of experience and must have a valid CDL license.

Equipment Operator II: Able to operate a digger derrick or bucket truck. Have at least 3 years of experience and must have a valid CDL license.

Groundman W/CDL: Must have a valid CDL license and be able to perform tasks such as: climbing poles, pulling downguys, making up material, and getting appropriate tools for the job. Must have at least 5 year's experience.

Groundman: Perform tasks such as: climbing poles, pulling downguys, making up material, and getting appropriate tools for the job. Experience 0-5 years.

Prevailing Wage Rate
Skilled Crafts

Name of Union: Elevator Local 45

Change # : LCN01-2012kpLoc45

Craft : Elevator Effective Date : 04/04/2012 Last Posted : 04/04/2012

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Elevator Mechanic	$41.92		$11.03	$6.96	$0.55	$3.35	$5.00	$0.00	$0.00	$0.00	$68.81	$89.77
Helper	$29.34		$11.03	$6.96	$0.55	$1.76	$5.00	$0.00	$0.00	$0.00	$54.64	$69.31
0-6 months Probation	50.00	$20.96	$11.03	$6.96	$0.55	$1.26	$5.00	$0.00	$0.00	$0.00	$45.76	$56.24
1st year	55.00	$23.06	$11.03	$6.96	$0.55	$1.38	$5.00	$0.00	$0.00	$0.00	$47.98	$59.50
2nd year	65.00	$27.25	$11.03	$6.96	$0.55	$1.64	$5.00	$0.00	$0.00	$0.00	$52.43	$66.05
3rd year	70.00	$29.34	$11.03	$6.96	$0.55	$1.76	$5.00	$0.00	$0.00	$0.00	$54.64	$69.32
4th year	80.00	$33.54	$11.03	$6.96	$0.55	$2.01	$5.00	$0.00	$0.00	$0.00	$59.09	$75.85

Special Calculation Note : Vacation moves to 8% of BHR after 5 years

Ratio :

The total number of Helpers & Apprentices employed shall not exceed the number of Mechanics on any one job, except on jobs where (2) teams or more are working, (1) extra Helper or Apprentice may be employed for the first (2) teams and an extra Helper or Apprentice for each additional (3) teams.

Jurisdiction (* denotes special jurisdictional note) :

ASHLAND, CARROLL, COLUMBIANA, COSHOCTON, HARRISON, HOLMES, MAHONING, MEDINA, PORTAGE, RICHLAND, STARK, SUMMIT, TRUMBULL, TUSCARAWAS, WAYNE

Special Jurisdictional Note :

Details :

Vacation 6%/under 5 years based on regular hourly rate for all hours worked. 8%/over 5 years based on regular hourly rate for all hours worked.

Prevailing Wage Rate
Skilled Crafts

Name of Union: Glazier Local 1162

Change # : LCN01-2021fbLoc1162

Craft : Glazier Effective Date : 05/21/2021 Last Posted : 05/21/2021

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Glazier	$27.77		$6.88	$6.79	$0.35	$0.00	$0.00	$0.00	$0.00	$0.00	$41.79	$55.68
Apprentice	Percent											
1st 6 months	50.00	$13.89	$6.88	$6.79	$0.35	$0.00	$0.00	$0.00	$0.00	$0.00	$27.91	$34.85
2nd 6 months	55.00	$15.27	$6.88	$6.79	$0.35	$0.00	$0.00	$0.00	$0.00	$0.00	$29.29	$36.93
3rd 6 months	60.00	$16.66	$6.88	$6.79	$0.35	$0.00	$0.00	$0.00	$0.00	$0.00	$30.68	$39.01
4th 6 months	65.00	$18.05	$6.88	$6.79	$0.35	$0.00	$0.00	$0.00	$0.00	$0.00	$32.07	$41.10
5th 6 months	70.00	$19.44	$6.88	$6.79	$0.35	$0.00	$0.00	$0.00	$0.00	$0.00	$33.46	$43.18
6th 6 months	75.00	$20.83	$6.88	$6.79	$0.35	$0.00	$0.00	$0.00	$0.00	$0.00	$34.85	$45.26
7th 6 months	80.00	$22.22	$6.88	$6.79	$0.35	$0.00	$0.00	$0.00	$0.00	$0.00	$36.24	$47.34
8th 6 months	90.00	$24.99	$6.88	$6.79	$0.35	$0.00	$0.00	$0.00	$0.00	$0.00	$39.01	$51.51

Special Calculation Note :

Ratio :

1 Journeyman to 1 Apprentice
2 Journeyman to 1 Apprentice

Jurisdiction (* denotes special jurisdictional note) :

ASHLAND, CARROLL, COSHOCTON, HOLMES, MEDINA, PORTAGE, RICHLAND, STARK, SUMMIT, TUSCARAWAS, WAYNE

Special Jurisdictional Note :

Details :

Add $1.25 per hour for High Pay which is all work that requires the employee be supported by equipment which hangs or suspends from the roof of a building or structure including all repelling .

Prevailing Wage Rate
Skilled Crafts

Name of Union: Ironworker Local 550

Change # : LCR02-2021fbLoc550

Craft : Ironworker **Effective Date :** 04/14/2021 **Last Posted :** 04/14/2021

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Ironworker	$30.17		$8.58	$9.02	$0.75	$0.00	$2.73	$0.41	$0.00	$0.00	$51.66	$66.75
Apprentice	Percent											
1st 6 months	60.00	$18.10	$8.58	$9.02	$0.75	$0.00	$2.73	$0.41	$0.00	$0.00	$39.59	$48.64
2nd 6 months	65.00	$19.61	$8.58	$9.02	$0.75	$0.00	$2.73	$0.41	$0.00	$0.00	$41.10	$50.91
3rd 6 months	70.00	$21.12	$8.58	$9.02	$0.75	$0.00	$2.73	$0.41	$0.00	$0.00	$42.61	$53.17
4th 6 months	75.00	$22.63	$8.58	$9.02	$0.75	$0.00	$2.73	$0.41	$0.00	$0.00	$44.12	$55.43
5th 6 months	80.00	$24.14	$8.58	$9.02	$0.75	$0.00	$2.73	$0.41	$0.00	$0.00	$45.63	$57.69
6th 6 months	85.00	$25.64	$8.58	$9.02	$0.75	$0.00	$2.73	$0.41	$0.00	$0.00	$47.13	$59.96
7th 6 months	90.00	$27.15	$8.58	$9.02	$0.75	$0.00	$2.73	$0.41	$0.00	$0.00	$48.64	$62.22
8th 6 months	95.00	$28.66	$8.58	$9.02	$0.75	$0.00	$2.73	$0.41	$0.00	$0.00	$50.15	$64.48

Special Calculation Note : OTHER IS: JOURNEYMAN UPGRADE AND WELLNESS FUND.

Ratio :

4 Journeymen to 1 Apprentice
1 Journeymen to 1 Apprentice, spinning of cable for suspension bridge
1 Journeymen to 1 Apprentice, ornamental work
2 Journeymen to 1 Apprentice, reinforcing work
1 Journeymen to 2 Apprentice, roadway

Jurisdiction (* denotes special jurisdictional note) :

ASHLAND, CARROLL, COLUMBIANA*, COSHOCTON, HOLMES*, HURON, MAHONING*, MEDINA*, PORTAGE*, RICHLAND, STARK, SUMMIT*, TUSCARAWAS, WAYNE

Special Jurisdictional Note : The jurisdictional line between Local 17 and Local 550 is determined as follows: All territory North of Old Route 224 line to be within the jurisdiction of Local 17. All territory South of Old Route 224 line is to be the jurisdiction of Local 550, except for everything within the City limits of Barberton which shall be under the jurisdiction of Local 17.

Details :

Prevailing Wage Rate
Skilled Crafts

Name of Union: Ironworker Local 550 Glass & Curtain Wall

Change # : LCN01-2017fbLoc550

Craft : Ironworker Effective Date : 07/01/2017 Last Posted : 06/28/2017

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Ironworker Glass & Curtain Wall	$22.00		$7.00	$7.47	$0.09	$0.00	$0.33	$0.00	$0.00	$0.00	$36.89	$47.89
Apprentice	Percent											
1st 6 months	60.00	$13.20	$7.00	$7.47	$0.09	$0.00	$0.33	$0.00	$0.00	$0.00	$28.09	$34.69
2nd 6 months	65.00	$14.30	$7.00	$7.47	$0.09	$0.00	$0.33	$0.00	$0.00	$0.00	$29.19	$36.34
3rd 6 months	70.00	$15.40	$7.00	$7.47	$0.09	$0.00	$0.33	$0.00	$0.00	$0.00	$30.29	$37.99
4th 6 months	75.00	$16.50	$7.00	$7.47	$0.09	$0.00	$0.33	$0.00	$0.00	$0.00	$31.39	$39.64
5th 6 months	80.00	$17.60	$7.00	$7.47	$0.09	$0.00	$0.33	$0.00	$0.00	$0.00	$32.49	$41.29
6th 6 months	85.00	$18.70	$7.00	$7.47	$0.09	$0.00	$0.33	$0.00	$0.00	$0.00	$33.59	$42.94
7th 6 months	90.00	$19.80	$7.00	$7.47	$0.09	$0.00	$0.33	$0.00	$0.00	$0.00	$34.69	$44.59
8th 6 months	95.00	$20.90	$7.00	$7.47	$0.09	$0.00	$0.33	$0.00	$0.00	$0.00	$35.79	$46.24

Special Calculation Note :

Ratio :

. Apprentice to 1 Journeymen

Jurisdiction (* denotes special jurisdictional note) :

ASHLAND, CARROLL, COLUMBIANA*, COSHOCTON, HOLMES, HURON*, MAHONING*, MEDINA*, PORTAGE*, RICHLAND, STARK, SUMMIT*, TUSCARAWAS, WAYNE

Special Jurisdictional Note : The jurisdictional line between Locals 17 and 550 is determined as follows: All territory North of Old Route 224 line is to be within the jurisdiction of Local 17. All territory South of Old Route 224 line is to be the jurisdiction of Local 550, except for everything within the City limits of Barberton which shall be under the jurisdiction of Local 17.

Details :

Prevailing Wage Rate
Skilled Crafts

Name of Union: Labor HevHwy 2

Change # : LCN01-2021fbLaborHevHwy2

Craft : Laborer Group 1 Effective Date : 05/01/2021 Last Posted : 04/21/2021

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Laborer Group 1	$33.70		$7.50	$3.90	$0.45	$0.00	$0.00	$0.00	$0.10	$0.00	$45.65	$62.50
Group 2	$33.87		$7.50	$3.90	$0.45	$0.00	$0.00	$0.00	$0.10	$0.00	$45.82	$62.75
Group 3	$34.20		$7.50	$3.90	$0.45	$0.00	$0.00	$0.00	$0.10	$0.00	$46.15	$63.25
Group 4	$34.65		$7.50	$3.90	$0.45	$0.00	$0.00	$0.00	$0.10	$0.00	$46.60	$63.92
Watch Person	$26.00		$7.50	$3.90	$0.45	$0.00	$0.00	$0.00	$0.10	$0.00	$37.95	$50.95
Apprentice	**Percent**											
0-1000 hrs	60.00	$20.22	$7.50	$3.90	$0.45	$0.00	$0.00	$0.00	$0.10	$0.00	$32.17	$42.28
1001-2000 hrs	70.02	$23.60	$7.50	$3.90	$0.45	$0.00	$0.00	$0.00	$0.10	$0.00	$35.55	$47.35
2001-3000 hrs	80.00	$26.96	$7.50	$3.90	$0.45	$0.00	$0.00	$0.00	$0.10	$0.00	$38.91	$52.39
3001-4000 hrs	90.00	$30.33	$7.50	$3.90	$0.45	$0.00	$0.00	$0.00	$0.10	$0.00	$42.28	$57.45
More Than 4000 hrs	100.00	$33.70	$7.50	$3.90	$0.45	$0.00	$0.00	$0.00	$0.10	$0.00	$45.65	$62.50

Special Calculation Note : Watchman has no Apprentices. Tunnel Laborer rate with air-pressurized add $1.00 to the above wage rate.

Ratio :

1 Journeymen to 1 Apprentice
3 Journeymen to 1 Apprentice thereafter

Jurisdiction (* denotes special jurisdictional note) :

ASHTABULA, ERIE, HURON, LORAIN, LUCAS, MAHONING, MEDINA, OTTAWA, PORTAGE, SANDUSKY, STARK, SUMMIT, TRUMBULL, WOOD

Special Jurisdictional Note : Hod Carriers and Common Laborers - Heavy, Highway, Sewer, Waterworks, Utility, Airport, Railroad, Industrial and Building Site, Sewer Plant, Waste Water Treatment Facilities Construction

Details :

Group 1

Laborer (Construction); Plant Laborer or Yardman, Right-of-way Laborer, Landscape Laborer, Highway Lighting Worker, Signalization Worker, (Swimming) Pool Construction Laborer, Utility Man, *Bridge Man, Handyman, Joint Setter, Flagperson, Carpenter Helper, Waterproofing Laborer, Slurry Seal, Seal Coating, Surface Treatment or Road Mix Laborer, Riprap Laborer & Grouter, Asphalt Laborer, Dump Man (batch trucks), Guardrail & Fence Installer, Mesh Handler & Placer, Concrete Curing Applicator, Scaffold Erector, Sign Installer, Hazardous Waste (level D), Diver Helper, Zone Person and Traffic Control.

*Bridge Man will perfomr work as per the October 31, 1949, memorandum on concrete forms, byand between the United Brotherhood of Caprpenters and Joiners of Americ and the Laborers' International Union of North America, which states in; "the moving, cleaning, oiling and carrying to the next point of erection, and the stripping of forms which are not to be re-used, and forms on all flat arch work shall be done by memebers of the Laborers' International Union of North America."

Group 2
Asphalt Raker, Screwman or Paver, Concrete Puddler, Kettle Man (pipeline), All Machine-Driven Tools (Gas, Electric, Air), Mason Tender, Brick Paver, Mortar Mixer, Skid Steer, Sheeting & Shoring Person, Surface Grinder Person, Screedperson, Water Blast, Hand Held Wand, Power Buggy or Power Wheelbarrow, Paint Striper, Plastic fusing Machine Operator, Rodding Machine Operator, Pug Mill Operator, Operator of All Vacuum Devices Wet or Dry, Handling of all Pumps 4 inches and under (gas, air or electric), Diver, Form Setter, Bottom Person, Welder Helper (pipeline), Concrete Saw Person, Cutting with Burning Torch, Pipe Layer, Hand Spiker (railroad), Underground Person (working in sewer and waterline, cleaning, repairing and reconditioning). Tunnel Laborer (without air),Caisson, Cofferdam (below 25 feet deep), Air Track and Wagon Drill, Sandblaster Nozzle Person, Hazardous Waste (level B), ***Lead Abatement, Hazardous Waste (level C)

***Includes the erecting of structures for the removal, including the encapsulation and containment of Lead abatement process.

Group 3
Blast and Powder Person, Muckers will be defined as shovel men working directly with the miners, Wrencher (mechanical joints & utility pipeline), Yarner, Top Lander, Hazardous Waste (level A), Concrete Specialist, Curb Setter and Cutter, Grade Checker, Concrete Crew in Tunnels. Utility pipeline Tappers, Waterline, Caulker, Signal Person will receive the rate equal to the rate paid the Laborer classification for which the Laborer is signaling.

Group 4
Miner,Welder, Gunite Nozzle Person

A.) The Watchperson shall be responsible to patrol and maintain a safe traffic zone including but not limited to barrels, cones, signs, arrow boards, message boards etc.
The responsibility of a watchperson is to see that the equipment, job and office trailer etc. are secure.

Prevailing Wage Rate
Skilled Crafts

Name of Union: Labor Local 1015 Building

Change # : LCN01-2021fbLoc1015

Craft : Laborer **Effective Date :** 07/14/2021 **Last Posted :** 07/14/2021

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Laborer Group 1	$29.57		$7.50	$3.90	$0.40	$0.00	$0.00	$0.00	$0.10	$0.00	$41.47	$56.26
Group 2	$29.97		$7.50	$3.90	$0.40	$0.00	$0.00	$0.00	$0.10	$0.00	$41.87	$56.85
Group 3	$30.32		$7.50	$3.90	$0.40	$0.00	$0.00	$0.00	$0.10	$0.00	$42.22	$57.38
Group 4	$30.27		$7.50	$3.90	$0.40	$0.00	$0.00	$0.00	$0.10	$0.00	$42.17	$57.31
Group 5	$22.61		$7.50	$3.90	$0.40	$0.00	$0.00	$0.00	$0.10	$0.00	$34.51	$45.82
Apprentice	Percent											
0-1000 hrs	60.00	$17.74	$7.50	$3.90	$0.40	$0.00	$0.00	$0.00	$0.10	$0.00	$29.64	$38.51
1001-2000 hrs	70.00	$20.70	$7.50	$3.90	$0.40	$0.00	$0.00	$0.00	$0.10	$0.00	$32.60	$42.95
2001-3000 hrs	80.00	$23.66	$7.50	$3.90	$0.40	$0.00	$0.00	$0.00	$0.10	$0.00	$35.56	$47.38
3001-4000 hrs	90.00	$26.61	$7.50	$3.90	$0.40	$0.00	$0.00	$0.00	$0.10	$0.00	$38.51	$51.82
More than 4000 hrs	100.00	$29.57	$7.50	$3.90	$0.40	$0.00	$0.00	$0.00	$0.10	$0.00	$41.47	$56.26

Special Calculation Note : No special calculations for this skilled craft wage rate are required at this time.

Ratio :

1 Journeyman to 1 Apprentice
4 Journeyman to 1 Apprentice

Jurisdiction (* denotes special jurisdictional note) :
CARROLL, STARK, WAYNE

Special Jurisdictional Note :

Details :
Group 1
Building & Construction Laborer, Signalman, Flagman, Tool Cribman, Carpenter Tender, Finisher Tender, Concrete Handler, Utility Construction Laborer, Guard Rail Erectors, Hazardous Waste (Level D)

Group 2
Bottom Man, Scaffold Builder, Tunnel laborer, Pipe Layer, Air and Power Driven Tools, Burner on Demolition Work, Swinging Scaffold, Mucker, Caisson Worker, Cofferdam Worker, Powder Men and

Dynamite Blaster, Creosote Worker, Form Setter, Plasterer Tender, Hod Carrier Laser Beam Set-up Man, All confined space work, furnaces, pickel tubs, acid-pits, and Hazardous Waste Level (C)

Group 3
Mason Tender, Mortar Mixer, Stonemason Tender,skid-loader, Hazardous Waste Level (B)

Group 4
Gunnite Operator, Hazardous Waste Level (A)

Group 5
Watchman

Prevailing Wage Rate
Skilled Crafts

Name of Union: Operating Engineers - Building Local 18 - Zone III

Change # : LCN01-2021sksLoc18zone3

Craft : Operating Engineer **Effective Date :** 08/13/2021 **Last Posted :** 08/13/2021

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Group A	$39.14		$8.76	$6.25	$0.85	$0.00	$0.00	$0.09	$0.00	$0.00	$55.09	$74.66
Group B	$39.02		$8.76	$6.25	$0.85	$0.00	$0.00	$0.09	$0.00	$0.00	$54.97	$74.48
Group C	$37.98		$8.76	$6.25	$0.85	$0.00	$0.00	$0.09	$0.00	$0.00	$53.93	$72.92
Group D	$36.80		$8.76	$6.25	$0.85	$0.00	$0.00	$0.09	$0.00	$0.00	$52.75	$71.15
Group E	$31.34		$8.76	$6.25	$0.85	$0.00	$0.00	$0.09	$0.00	$0.00	$47.29	$62.96
Master Mechanic	$39.39		$8.76	$6.25	$0.85	$0.00	$0.00	$0.09	$0.00	$0.00	$55.34	$75.03
Cranes 150'-180'	$39.64		$8.76	$6.25	$0.85	$0.00	$0.00	$0.09	$0.00	$0.00	$55.59	$75.41
Cranes 180'-249'	$40.14		$8.76	$6.25	$0.85	$0.00	$0.00	$0.09	$0.00	$0.00	$56.09	$76.16
Cranes 249' and over	$40.39		$8.76	$6.25	$0.85	$0.00	$0.00	$0.09	$0.00	$0.00	$56.34	$76.53
Apprentice	Percent											
1st Year	50.00	$19.57	$8.76	$6.25	$0.85	$0.00	$0.00	$0.09	$0.00	$0.00	$35.52	$45.31
2nd Year	60.00	$23.48	$8.76	$6.25	$0.85	$0.00	$0.00	$0.09	$0.00	$0.00	$39.43	$51.18
3rd Year	70.00	$27.40	$8.76	$6.25	$0.85	$0.00	$0.00	$0.09	$0.00	$0.00	$43.35	$57.05
4th Year	80.00	$31.31	$8.76	$6.25	$0.85	$0.00	$0.00	$0.09	$0.00	$0.00	$47.26	$62.92
Field Mechanic Trainee			$8.76	$6.25	$0.85			$0.09				
1st Year	50.00	$19.57	$8.76	$6.25	$0.85	$0.00	$0.00	$0.09	$0.00	$0.00	$35.52	$45.31
2nd Year	60.00	$23.48	$8.76	$6.25	$0.85	$0.00	$0.00	$0.09	$0.00	$0.00	$39.43	$51.18
3rd Year	70.00	$27.40	$8.76	$6.25	$0.85	$0.00	$0.00	$0.09	$0.00	$0.00	$43.35	$57.05
4th Year	80.00	$31.31	$8.76	$6.25	$0.85	$0.00	$0.00	$0.09	$0.00	$0.00	$47.26	$62.92

Special Calculation Note : Other: Education & Safety $0.09

Ratio :

For every (3) Operating Engineer Journeymen employed by the company there may be employed (1) Registered Apprentice or trainee Engineer through the referral when they are available. An apprenice, while employed as part of a crew per Article VIII, paragraph

Jurisdiction (* denotes special jurisdictional note) :

ADAMS, ALLEN, ASHLAND, ATHENS, AUGLAIZE, BELMONT, BROWN, BUTLER, CARROLL, CHAMPAIGN, CLARK, CLERMONT, CLINTON, COSHOCTON, CRAWFORD, DARKE, DEFIANCE, DELAWARE, FAIRFIELD, FAYETTE,

78, will not be subject to the apprenticeship ratios in this collective bargaining agreement	FRANKLIN, FULTON, GALLIA, GREENE, GUERNSEY, HAMILTON, HANCOCK, HARDIN, HARRISON, HENRY, HIGHLAND, HOCKING, HOLMES, JACKSON, JEFFERSON, KNOX, LAWRENCE, LICKING, LOGAN, MADISON, MARION, MEIGS, MERCER, MIAMI, MONROE, MONTGOMERY, MORGAN, MORROW, MUSKINGUM, NOBLE, OTTAWA, PAULDING, PERRY, PICKAWAY, PIKE, PREBLE, PUTNAM, RICHLAND, ROSS, SANDUSKY, SCIOTO, SENECA, SHELBY, STARK, TUSCARAWAS, UNION, VAN WERT, VINTON, WARREN, WASHINGTON, WAYNE, WILLIAMS, WYANDOT

Special Jurisdictional Note :

Details :

Note: There will be a 10% increase for the apprentices on top of the percentages listed above provided they are operating mobile equipment. Mechanic Trainees will receive 10% increase if required to have CDL

Group A- Barrier Moving Machines; Boiler Operators or Compressor Operators, when compressor or boiler is mounted on crane (Piggyback Operation); Boom Trucks (all types); Cableways Cherry Pickers; Combination - Concrete Mixers & Towers; All Concrete Pumps with Booms; Cranes (all types); Compact Cranes, track or rubber over 4,000 pounds capacity; Cranes self-erecting, stationary, track or truck (all configurations); Derricks (all types); Draglines; Dredges (dipper, clam or suction) 3-man crew; Elevating Graders or Euclid Loaders; Floating Equipment; Forklift (rough terrain with winch/hoist); Gradalls; Helicopter Operators, hoisting building materials; Helicopter Winch Operators, Hoisting building materials; Hoes (All types); Hoists (with two or more drums in use); Horizonal Directional Drill; Hydraulic Gantry (lift system); Laser Finishing Machines; Laser Screed and like equipment; Lift Slab or Panel Jack Operators; Locomotives (all types); Maintenance Operator/Technician(Mechanic Operator/Technician and/or Welder); Mixers, paving (multiple drum); Mobile Concrete Pumps, with booms; Panelboards, (all types on site); Pile Drivers; Power Shovels; Prentice Loader; Rail Tamper (with automatic lifting and aligning device); Rotary Drills (all), used on caissons for foundations and sub-structure; Side Booms; Slip Form Pavers; Straddle Carriers (Building Construction on site); Trench Machines (over 24" wide); Tug Boats.

Group B - Articulating/end dumps (minus $4.00/hour from Group B rate); Asphalt Pavers; Bobcat-type and/or skid steer loader with hoe attachment greater than 7000 lbs.; Bulldozers; CMI type Equipment; Concrete Saw, Vermeer-type; Endloaders; Hydro Milling Machine; Kolman-type Loaders (Dirt Loading); Lead Greasemen; Mucking Machines; Pettibone-Rail Equipment; Power Graders; Power Scoops; Power Scrapers; Push Cats;, Rotomills (all), grinders and planers of all types.

Group C - A-Frames; Air Compressors, Pressurizing Shafts or Tunnels; All Asphalt Rollers; Bobcat-type and/or Skid Steer Loader with or without attachments; Boilers (15 lbs. pressure and over); All Concrete Pumps (without booms with 5 inch system); Fork Lifts (except masonry); Highway Drills - all types (with integral power); Hoists (with one drum); House Elevators (except those automatic call button controlled), Buck Hoists, Transport Platforms, Construction Elevators; Hydro Vac/Excavator (when a second person is needed, the rate of pay will be "Class E"); Man Lifts; Material hoist/elevators; Mud Jacks; Pressure Grouting; Pump Operators (installing or operating Well Points or other types of Dewatering Systems); Pumps (4 inches and over discharge); Railroad Tie (Inserter/Remover); Rotovator (Lime-Soil Stabilizer); Submersible Pumps (4"and over discharge); Switch & Tie Tampers (without lifting and aligning device); Trench Machines (24" and under); Utility Operators.

Group D - Backfillers and Tampers; Ballast Re-locator; Batch Plant Operators; Bar and Joint Installing Machines; Bull Floats; Burlap and Curing Machines; Clefplanes; Compressors, on building construction; Concrete Mixers, more than one bag capacity; Concrete Mixers, one bag capacity (side loaders); All Concrete Pumps (without boom with 4" or smaller system); Concrete Spreader; Conveyors, used for handling building materials; Crushers; Deckhands; Drum Fireman (in asphalt plants); Farm type tractors pulling attachments; Finishing Machines; Form Trenchers; Generators: Gunite Machines; Hydro-seeders; Pavement Breakers (hydraulic or cable); Post Drivers; Post Hole Diggers; Pressure Pumps (over 1/2") discharge); Road Widening Trenchers; Rollers (except asphalt); Self-propelled sub-graders; Shotcrete Machines; Tire Repairmen; Tractors, pulling sheepsfoot post roller or grader; VAC/ALLS; Vibratory Compactors, with integral power; Welders.

Group E – Allen Screed Paver (concrete); Boilers (less than 15 lbs. pressure); Cranes-Compact, track or rubber (under 4,000 pounds capacity); Directional Drill "Locator"; Fueling and greasing +$3.00; Inboard/outboard Motor Boat Launches; Light Plant Operators; Masonry Fork Lifts; Oilers/Helpers; Power Driven Heaters (oil fired); Power Scrubbers; Power Sweepers; Pumps (under 4 inch discharge); Signalperson, Submersible Pumps (under 4" discharge).

Master Mechanics - Master Mechanic

Cranes 150' – 180' - Boom & Jib 150 - 180 feet

Cranes 180' – 249' - Boom & Jib 180 - 249 feet

Cranes 250' and over - Boom & Jib 250-feet or over

Prevailing Wage Rate
Skilled Crafts

Name of Union: Operating Engineers - HevHwy Zone II

Change # : LCN01-2021sksLoc18hevhwyII

Craft : Operating Engineer **Effective Date :** 08/13/2021 **Last Posted :** 08/13/2021

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Class A	$39.14		$8.76	$6.25	$0.85	$0.00	$0.00	$0.09	$0.00	$0.00	$55.09	$74.66
Class B	$39.02		$8.76	$6.25	$0.85	$0.00	$0.00	$0.09	$0.00	$0.00	$54.97	$74.48
Class C	$37.98		$8.76	$6.25	$0.85	$0.00	$0.00	$0.09	$0.00	$0.00	$53.93	$72.92
Class D	$36.80		$8.76	$6.25	$0.85	$0.00	$0.00	$0.09	$0.00	$0.00	$52.75	$71.15
Class E	$31.34		$8.76	$6.25	$0.85	$0.00	$0.00	$0.09	$0.00	$0.00	$47.29	$62.96
Master Mechanic	$39.39		$8.76	$6.25	$0.85	$0.00	$0.00	$0.09	$0.00	$0.00	$55.34	$75.03
Apprentice	Percent											
1st Year	50.00	$19.57	$8.76	$6.25	$0.85	$0.00	$0.00	$0.09	$0.00	$0.00	$35.52	$45.31
2nd Year	60.00	$23.48	$8.76	$6.25	$0.85	$0.00	$0.00	$0.09	$0.00	$0.00	$39.43	$51.18
3rd Year	70.00	$27.40	$8.76	$6.25	$0.85	$0.00	$0.00	$0.09	$0.00	$0.00	$43.35	$57.05
4th Year	80.00	$31.31	$8.76	$6.25	$0.85	$0.00	$0.00	$0.09	$0.00	$0.00	$47.26	$62.92
Field Mech Trainee Class 2												
1st year	50.00	$19.57	$8.76	$6.25	$0.85	$0.00	$0.00	$0.09	$0.00	$0.00	$35.52	$45.31
2nd year	60.00	$23.48	$8.76	$6.25	$0.85	$0.00	$0.00	$0.09	$0.00	$0.00	$39.43	$51.18
3rd year	70.00	$27.40	$8.76	$6.25	$0.85	$0.00	$0.00	$0.09	$0.00	$0.00	$43.35	$57.05
4th year	80.00	$31.31	$8.76	$6.25	$0.85	$0.00	$0.00	$0.09	$0.00	$0.00	$47.26	$62.92

Special Calculation Note : Other: Education & Safety Fund is $0.09 per hour.

Ratio :

For every (3) Operating Engineer Journeymen employed by the company, there may be employed (1) Registered Apprentice or Trainee Engineer through the referral when they are available. An Apprentice, while employed as part of a crew per Article VIII, paragraph 65 will not be subject to the apprenticeship ratios in this collective bargaining agreement

Jurisdiction (* denotes special jurisdictional note) :

ADAMS, ALLEN, ASHLAND, ATHENS, AUGLAIZE, BELMONT, BROWN, BUTLER, CARROLL, CHAMPAIGN, CLARK, CLERMONT, CLINTON, COSHOCTON, CRAWFORD, DARKE, DEFIANCE, DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, FULTON, GALLIA, GREENE, GUERNSEY, HAMILTON, HANCOCK, HARDIN, HARRISON, HENRY, HIGHLAND, HOCKING, HOLMES, HURON, JACKSON, JEFFERSON, KNOX, LAWRENCE, LICKING, LOGAN, LUCAS,

MADISON, MARION, MEIGS, MERCER, MIAMI, MONROE, MONTGOMERY, MORGAN, MORROW, MUSKINGUM, NOBLE, OTTAWA, PAULDING, PERRY, PICKAWAY, PIKE, PREBLE, PUTNAM, RICHLAND, ROSS, SANDUSKY, SCIOTO, SENECA, SHELBY, STARK, TUSCARAWAS, UNION, VAN WERT, VINTON, WARREN, WASHINGTON, WAYNE, WILLIAMS, WOOD, WYANDOT

Special Jurisdictional Note :

Details :

**Apprentices wilt receive a 10% increase on top of the percentages listed above provided they are operating mobile equipment. Mechanic Trainees will receive 10% increase if they are required to have CDL.

Class A - Air Compressors on Steel Erection; Asphalt Plant Engineers (Cleveland District Only); Barrier Moving Machine; Boiler Operators, Compressor Operators, or Generators, when mounted on a rig; Boom Trucks (all types); Cableways; Cherry Pickers; Combination- Concrete Mixers & Towers; Concrete Plants (over 4 yd capacity); Concrete Pumps; Cranes (all types); Compact Cranes track or rubber over 4,000 pounds capacity; Cranes self-erecting stationary, track or truck; Derricks (all types); Draglines; Dredges dipper, clam or suction; Elevating Graders or Euclid Loaders; Floating Equipment (all types); Gradalls; Helicopter Crew (Operator- hoist or winch); Hoes (all types); Hoisting Engines; Hoisting Engines, on shaft or tunnel work; Hydraulic Gantry (lifting system); Industrial-type Tractors; Jet Engine Dryer (D8 or D9) diesel Tractors; Locomotives (standard gauge); Maintenance Operators/Technicians (class A); Mixers, paving (single or double drum); Mucking Machines; Multiple Scrapers; Piledriving Machines (all types); Power Shovels, Prentice Loader; Quad 9 (double pusher); Rail Tamper (with automatic lifting and aligning device); Refrigerating Machines (freezer operation); Rotary Drills, on caisson work; Rough Terrain Fork Lift with winch/hoist; Side Booms; Slip Form Pavers; Survey Crew Party Chiefs; Tower Derricks; Tree Shredders; Trench Machines (over 24" wide); Truck Mounted Concrete Pumps; Tug Boats; Tunnel Machines and /or Mining Machines; Wheel Excavators.
Class B - Asphalt Pavers; Automatic Subgrade Machines, self-propelled (CMI-type); Bobcat-type and /or Skid Steer Loader with hoe attachment greater than 7000 lbs.; Boring Machine Operators (more than 48 inches); Bulldozers; Concrete Saws, Vermeer type; Endloaders; Horizontal Directional Drill (50,000 ft. lbs. thrust and over); Hydro Milling Machine; Kolman-type Loaders (production type-dirt); Lead Greasemen; Lighting and Traffic Signal Installation Equipment includes all groups or classifications; Maintenance Operators/Technicians, Class B; Material Transfer Equipment (shuttle buggy) Asphalt; Pettibone-Rail Equipment; Power Graders; Power Scrapers; Push Cats; Rotomills (all), Grinders and Planners of all types, Groovers (excluding walk-behinds); Trench Machines (24 inch wide and under).

Class C - A-Frames; Air Compressors, on tunnel work (low Pressure); Articulating/straight bed end dumps if assigned (minus $4.00 per hour); Asphalt Plant Engineers (Portage and Summit Counties only); Bobcat-type and/or skid steer loader with or without attachments; Drones; Highway Drills (all types); HydroVac/Excavator (when a second person is needed, the rate of pay will be "Class E"); Locomotives (narrow gauge); Material Hoist/Elevators; Mixers, concrete (more than one bag capacity); Mixers, one bag capacity (side loader); Power Boilers (over 15 lbs. pressure); Pump Operators (installing or operating well Points); Pumps (4 inch and over discharge); Railroad Tie Inserter/Remover; Rollers, Asphalt; Rotovator (lime-soil Stabilizer); Switch & Tie Tampers (without lifting and aligning device); Utilities Operators, (small equipment); Welding Machines and Generators.
Class D – Backfillers and Tampers; Ballast Re-locator; Bar and Joint Installing Machines; Batch Plant Operators; Boring Machine Operators (48 inch or less); Bull Floats; Burlap and Curing Machines; Concrete

Plants (capacity 4 yds. and under); Concrete Saws (multiple); Conveyors (highway); Crushers; Deckhands; Farm type tractors, with attachments (highway); Finishing Machines; Firemen, Floating Equipment (all types); Fork Lifts (highway), except masonry; Form Trenchers; Hydro Hammers; Hydro Seeders; Pavement Breakers (hydraulic or cable); Plant Mixers; Post Drivers; Post Hole Diggers; Power Brush Burners; Power Form Handling Equipment; Road Widening Trenchers; Rollers (brick, grade, macadam); Self-Propelled Power Spreaders; Self-Propelled Sub-Graders; Steam Firemen; Survey Instrument men; Tractors, pulling sheepsfoot rollers or graders; Vibratory Compactors, with integral power.
Class E - Compressors (portable, Sewer, Heavy and Highway); Cranes-Compact, track or rubber under 4,000 pound capacity; Drum Firemen (asphalt plant); Fueling and greasing (Primary Operator with Specialized CDL Endorsement Add $3.00/hr); Generators; Inboard-Outboard Motor Boat Launches; Masonry Fork Lifts; Oil Heaters (asphalt plant); Oilers/Helpers; Power Driven Heaters (oil fired); Power Scrubbers; Power Sweepers; Pumps (under 4 inch discharge); Signalperson; Survey Rodmen or Chairmen; Tire Repairmen; VAC/ALLS.
Master Mechanic - Master Mechanic

Prevailing Wage Rate
Skilled Crafts

Name of Union: Painter Local 841 Zone II

Change # : LCN01-2019fbLoc603Com.

Craft : Painter Effective Date : 10/09/2019 Last Posted : 10/09/2019

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Painter Brush Roll	$24.70		$6.66	$7.17	$0.35	$0.00	$0.00	$0.00	$0.00	$0.00	$38.88	$51.23
Paperhanger	$24.70		$6.66	$7.17	$0.35	$0.00	$0.00	$0.00	$0.00	$0.00	$38.88	$51.23
Spray Gun Operator of Any & All Coatings	$25.55		$6.66	$7.17	$0.35	$0.00	$0.00	$0.00	$0.00	$0.00	$39.73	$52.51
Swing Scaffold, Bosum Chair & Window Jack	$25.45		$6.66	$7.17	$0.35	$0.00	$0.00	$0.00	$0.00	$0.00	$39.63	$52.35
Sandblast, Painting of Standpipes, Etc. from Scaffolds, Open Structural Steel, Standpipes & Water Towers	$25.95		$6.66	$7.17	$0.35	$0.00	$0.00	$0.00	$0.00	$0.00	$40.13	$53.10
Epoxy Applications	$25.35		$6.66	$7.17	$0.35	$0.00	$0.00	$0.00	$0.00	$0.00	$39.53	$52.21
Synthetic Applications	$25.95		$6.66	$7.17	$0.35	$0.00	$0.00	$0.00	$0.00	$0.00	$40.13	$53.10
Lead Abatement	$25.95		$6.66	$7.17	$0.35	$0.00	$0.00	$0.00	$0.00	$0.00	$40.13	$53.10
Asbestos Removal	$25.95		$6.66	$7.17	$0.35	$0.00	$0.00	$0.00	$0.00	$0.00	$40.13	$53.10
Apprentice	Percent											
1st 6 months	50.00	$12.35	$6.66	$7.17	$0.35	$0.00	$0.00	$0.00	$0.00	$0.00	$26.53	$32.71

2nd 6 months	55.00	$13.59	$6.66	$7.17	$0.35	$0.00	$0.00	$0.00	$0.00	$0.00	$27.76	$34.56
3rd 6 months	60.00	$14.82	$6.66	$7.17	$0.35	$0.00	$0.00	$0.00	$0.00	$0.00	$29.00	$36.41
4th 6 months	65.00	$16.05	$6.66	$7.17	$0.35	$0.00	$0.00	$0.00	$0.00	$0.00	$30.23	$38.26
5th 6 months	70.00	$17.29	$6.66	$7.17	$0.35	$0.00	$0.00	$0.00	$0.00	$0.00	$31.47	$40.12
6th 6 months	75.00	$18.52	$6.66	$7.17	$0.35	$0.00	$0.00	$0.00	$0.00	$0.00	$32.71	$41.97
7th 6 months	80.00	$19.76	$6.66	$7.17	$0.35	$0.00	$0.00	$0.00	$0.00	$0.00	$33.94	$43.82
8th 6 months	90.00	$22.23	$6.66	$7.17	$0.35	$0.00	$0.00	$0.00	$0.00	$0.00	$36.41	$47.53

Special Calculation Note : Apprentice pay based on percentage of above appropriate classification.

Ratio :

3 Journeymen to 1 Apprentice

Jurisdiction (* denotes special jurisdictional note) :

CARROLL, COSHOCTON, HOLMES, STARK, TUSCARAWAS, WAYNE

Special Jurisdictional Note :

Details :

Commercial and industrial work, performed outside the regular work day, the rate of pay shall be $2.00 per hour above the applicable wage scale. This rate of pay is only applicable for eight – (8) hours. Additional hours shall be paid at the rate of time and one – half.

Prevailing Wage Rate
Skilled Crafts

Name of Union: Painter Local 841 Zone II

Change # : LCN01-2019fbLoc603Com.

Craft : Drywall Finisher Effective Date : 10/09/2019 Last Posted : 10/09/2019

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Painter Drywall Finisher	$25.95		$6.66	$7.17	$0.35	$0.00	$0.00	$0.00	$0.00	$0.00	$40.13	$53.10
Drywall Taping	$25.95		$6.66	$7.17	$0.35	$0.00	$0.00	$0.00	$0.00	$0.00	$40.13	$53.10
Drywall Finisher W/Machines	$25.95		$6.66	$7.17	$0.35	$0.00	$0.00	$0.00	$0.00	$0.00	$40.13	$53.10
Apprentice	**Percent**											
1st 6 months	50.00	$12.98	$6.66	$7.17	$0.35	$0.00	$0.00	$0.00	$0.00	$0.00	$27.16	$33.64
2nd 6 months	55.00	$14.27	$6.66	$7.17	$0.35	$0.00	$0.00	$0.00	$0.00	$0.00	$28.45	$35.59
3rd 6 months	60.00	$15.57	$6.66	$7.17	$0.35	$0.00	$0.00	$0.00	$0.00	$0.00	$29.75	$37.53
4rd 6 months	70.00	$18.16	$6.66	$7.17	$0.35	$0.00	$0.00	$0.00	$0.00	$0.00	$32.35	$41.43
5th 6 months	80.00	$20.76	$6.66	$7.17	$0.35	$0.00	$0.00	$0.00	$0.00	$0.00	$34.94	$45.32
6th 6 months	90.00	$23.35	$6.66	$7.17	$0.35	$0.00	$0.00	$0.00	$0.00	$0.00	$37.54	$49.21

Special Calculation Note : Apprentice pay based on percentage of above appropriate classification.

Ratio :

3 Journeymen to 1 Apprentice

Jurisdiction (* denotes special jurisdictional note) :

CARROLL, COSHOCTON, HOLMES, STARK, TUSCARAWAS, WAYNE

Special Jurisdictional Note :

Details :

Commercial and industrial work, performed outside the regular work day, the rate of pay shall be $2.00

per hour above the applicable wage scale. This rate of pay is only applicable for eight – (8) hours. Additional hours shall be paid at the rate of time and one – half.

Prevailing Wage Rate
Skilled Crafts

Name of Union: Painter Local 841 Zone II Industrial

Change # : LCN01-2017fbLoc841

Craft : Painter Effective Date : 11/08/2017 Last Posted : 11/08/2017

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Painter Brush and Roll	$22.07		$6.16	$6.37	$0.35	$0.00	$0.00	$0.00	$0.00	$0.00	$34.95	$45.99
Painter Spray Painter	$22.60		$6.16	$6.37	$0.35	$0.00	$0.00	$0.00	$0.00	$0.00	$35.48	$46.78
Tank Interior & Exterior	$22.60		$6.16	$6.37	$0.35	$0.00	$0.00	$0.00	$0.00	$0.00	$35.48	$46.78
Sandblasting Steel, Structural Steel & Metallizing	$22.78		$6.16	$6.37	$0.35	$0.00	$0.00	$0.00	$0.00	$0.00	$35.66	$47.05
Epoxy Application Class 3	$22.57		$6.16	$6.37	$0.35	$0.00	$0.00	$0.00	$0.00	$0.00	$35.45	$46.74
Epoxy Application Class 4	$23.07		$6.16	$6.37	$0.35	$0.00	$0.00	$0.00	$0.00	$0.00	$35.95	$47.49
Bridges,, Towers, Poles & Stacks	$22.78		$6.16	$6.37	$0.35	$0.00	$0.00	$0.00	$0.00	$0.00	$35.66	$47.05
Apprentice	Percent											
1st 6 Months	50.00	$11.04	$6.16	$6.37	$0.35	$0.00	$0.00	$0.00	$0.00	$0.00	$23.92	$29.43
2nd 6 Months	55.00	$12.14	$6.16	$6.37	$0.35	$0.00	$0.00	$0.00	$0.00	$0.00	$25.02	$31.09
3rd 6 Months	60.00	$13.24	$6.16	$6.37	$0.35	$0.00	$0.00	$0.00	$0.00	$0.00	$26.12	$32.74
4th 6 Months	65.00	$14.35	$6.16	$6.37	$0.35	$0.00	$0.00	$0.00	$0.00	$0.00	$27.23	$34.40
5th 6 Months	70.00	$15.45	$6.16	$6.37	$0.35	$0.00	$0.00	$0.00	$0.00	$0.00	$28.33	$36.05
6th 6 Months	75.00	$16.55	$6.16	$6.37	$0.35	$0.00	$0.00	$0.00	$0.00	$0.00	$29.43	$37.71
7th 6 Months	80.00	$17.66	$6.16	$6.37	$0.35	$0.00	$0.00	$0.00	$0.00	$0.00	$30.54	$39.36

8th 6 Months	90.00	$19.86	$6.16	$6.37	$0.35	$0.00	$0.00	$0.00	$0.00	$0.00	$32.74	$42.67

Special Calculation Note : Apprentice pay based on percentage of above classification.

atio :
3 Journeymen to 1 Apprentice

Jurisdiction (* denotes special jurisdictional note) :
CARROLL, COSHOCTON, HOLMES, STARK, TUSCARAWAS, WAYNE

Special Jurisdictional Note :

Details :
Commercial and industrial work, performed outside the regular work day, the rate of pay shall be $2.00 per hour above the applicable wage scale. This rate of pay is only applicable for eight – (8) hours. Additional hours shall be paid at the rate of time and one – half.

Prevailing Wage Rate
Skilled Crafts

Name of Union: Painter Local 639

Change # : LCNO1-2015fbLoc639

Craft : Painter Effective Date : 06/10/2015 Last Posted : 06/10/2015

	BHR	Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
		H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification											
Painter Metal Polisher											
Top Helper Class A	$19.09	$3.65	$0.00	$0.00	$0.66	$0.00	$0.00	$0.00	$0.00	$23.40	$32.94
Top Helper Class B	$19.09	$3.65	$0.65	$0.00	$1.03	$0.00	$0.37	$0.00	$0.00	$24.79	$34.33
Top Helper Class C	$19.09	$3.65	$1.00	$0.00	$1.76	$0.00	$0.37	$0.00	$0.00	$25.87	$35.41
Helper Class A	$14.69	$3.65	$0.00	$0.00	$0.51	$0.00	$0.00	$0.00	$0.00	$18.85	$26.19
Helper Class B	$14.69	$3.65	$0.65	$0.00	$0.79	$0.00	$0.28	$0.00	$0.00	$20.06	$27.40
Helper Class C	$14.69	$3.65	$1.00	$0.00	$1.64	$0.00	$0.28	$0.00	$0.00	$21.26	$28.60
New Hire 90 Days	$11.00	$3.65	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$14.65	$20.15

Special Calculation Note : Other is Sick and Personal Time

Ratio :

Jurisdiction (* denotes special jurisdictional note) :
ADAMS, ALLEN, ASHLAND, ASHTABULA, ATHENS, AUGLAIZE, BELMONT, BROWN, BUTLER, CARROLL, CHAMPAIGN, CLARK, CLERMONT, CLINTON, COLUMBIANA, COSHOCTON, CRAWFORD, CUYAHOGA, DARKE, DEFIANCE, DELAWARE, ERIE, FAIRFIELD, FAYETTE, FRANKLIN, FULTON, GALLIA, GEAUGA, GREENE, GUERNSEY, HAMILTON, HANCOCK, HARDIN, HARRISON, HENRY, HIGHLAND, HOCKING, HOLMES, HURON, JACKSON, JEFFERSON, KNOX, LAKE, LAWRENCE, LICKING, LOGAN, LORAIN, LUCAS, MADISON, MAHONING, MARION, MEDINA, MEIGS, MERCER, MIAMI, MONROE, MONTGOMERY, MORGAN, MORROW, MUSKINGUM, NOBLE, OTTAWA, PAULDING, PERRY, PICKAWAY, PIKE, PORTAGE, PREBLE, PUTNAM, RICHLAND, ROSS, SANDUSKY, SCIOTO, SENECA, SHELBY, STARK, SUMMIT, TRUMBULL, TUSCARAWAS, UNION,

VAN WERT, VINTON, WARREN, WASHINGTON,
WAYNE, WILLIAMS, WOOD, WYANDOT

Special Jurisdictional Note :

Details :

Top Helper: Shall perform the responsibilities of a Helper and be responsible for the setup, break down, safety and quality of the company's product.
Helper : Shall be responsible for performing tasks in refinishing, compliance with safety procedures, setting up and breaking down job sites, scaffolding and swing stages and preparing surfaces for refinishing including but not limited to, masking and stripping and cleaning, oxidizing, polishing and scratch removal on various surfaces
.
Class A Workers: Less than 1 Year of Service.
Class B Workers: More than 1 and less than 8 Years of Service.
Class C Workers: More than 8 Years of Service.

Metal Polisher Scope of Work: Polishing, buffing, stripping, coloring, lacquering, spraying, cleaning and maintenance of ornamental and architectural metals, iron, bronze, nickel, aluminum and stainless steel and in mental specialty work, various stone finishes, stone specialty work and any other work pertaining to the finishing of metal, stones, woods, and any window washing/cleaning done in conjunction with this work, using chemicals, solvents, coatings and hand applied lacquer thinner, removing scratches from mirrow finished metals, burnishing of bronze, statuary finishes on exterior and interior surfaces and the use of all tools required to perform such work, including but not limited to polishes, spray equipment and scaffolding.

Swing State Rate: All work on scaffold 4 sections or higher, including any boom lifts and swing stage scaffolds including the rigging and derigging of hanging/suspended swing stage systems and rappelling/bolson chair work, ADD $1.50 per hour.

Prevailing Wage Rate
Skilled Crafts

Name of Union: Painter Local 639 (A) Sign

Change # : CN01-2009Loc639A

Craft : Painter Effective Date : 03/06/2009 Last Posted : 03/06/2009

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Painter Sign Erector	$19.98		$4.46	$1.00	$0.25	$1.68	$0.00	$0.00			$27.37	$37.36
Serviceman	$19.98		$4.46	$1.00	$0.25	$1.68	$0.00	$0.00			$27.37	$37.36
Metal Sign Fabricator	$19.98		$4.46	$1.00	$0.25	$1.68	$0.00	$0.00			$27.37	$37.36
Neon Bender Pattern Maker	$19.98		$4.46	$1.00	$0.25	$1.68	$0.00	$0.00			$27.37	$37.36
Computer Operator	$18.98		$4.46	$1.00	$0.25	$1.61	$0.00	$0.00			$26.30	$35.79
Router	$18.98		$4.46	$1.00	$0.25	$1.61	$0.00	$0.00			$26.30	$35.79
Plastic Wood Fabricator	$18.98		$4.46	$1.00	$0.25	$1.61	$0.00	$0.00			$26.30	$35.79
Vinyl Applicator	$18.98		$4.46	$1.00	$0.25	$1.61	$0.00	$0.00			$26.30	$35.79
Apprentice For Sign Service, Metal,Neon,Pattern	**Percent**											
1000 hrs	50.00	$9.99	$4.46	$1.00	$0.25	$1.03	$0.00	$0.00			$16.73	$21.73
2000 hrs	55.00	$10.99	$4.46	$1.00	$0.25	$0.37	$0.00	$0.00			$17.07	$22.56
3000 hrs	60.00	$11.99	$4.46	$1.00	$0.25	$0.37	$0.00	$0.00			$18.07	$24.06
4000 hrs	65.00	$12.99	$4.46	$1.00	$0.25	$0.37	$0.00	$0.00			$19.07	$25.56
5000 hrs	70.00	$13.99	$4.46	$1.00	$0.25	$0.37	$0.00	$0.00			$20.07	$27.06
6000 hrs	85.00	$16.98	$4.46	$1.00	$0.25	$0.37	$0.00	$0.00			$23.06	$31.55
7000 hrs	90.00	$17.98	$4.46	$1.00	$0.25	$0.37	$0.00	$0.00			$24.06	$33.05

Special Calculation Note : Apprentice Rates For: Computer Operator, Router, Plastic-Wood Fabricator Vinyl Application

1000 hrs 50% plus ($4.46 h&w)+($1.00 pension)+($.25 apprentice training) + vacation $0.99
2000 hrs 55% plus ($4.46 h&w)+($1.00 pension)+($.25 apprentice training) + vacation $0.37
3000 hrs 65% plus ($4.46 h&w)+($1.00 pension)+($.25 apprentice training) + vacation $0.37

4000 hrs 50% plus ($4.46 h&w)+($1.00 pension)+($.25 apprentice training) + vacation $0.37
5000 hrs 70% plus ($4.46 h&w)+($1.00 pension)+($.25 apprentice training) + vacation $0.37
6000 hrs 85% plus ($4.46 h&w)+($1.00 pension)+($.25 apprentice training) + vacation $0.37
7000 hrs 90% plus ($4.46 h&w)+($1.00 pension)+($.25 apprentice training) + vacation $0.37

Ratio :

Jurisdiction (* denotes special jurisdictional note) :
ASHLAND, ASHTABULA, CUYAHOGA, ERIE, GEAUGA, LAKE, LORAIN, MEDINA, PORTAGE, RICHLAND, STARK, SUMMIT

Special Jurisdictional Note :

Details :
Sign and display work shall include but not limited: to the making and installation of all signs and servicing of the same, lettering and pictorial work of any kind, including vinyl signs and vinyl substrates and the preparing for the finishing of same, be it by hand, brush, roller,spray, mechanical or computer aided and by any other method or process pertaining to same: they shall have control of all branches, methods and processes of screen process work: tube bending and display work such as creating, building and finishing of all display matter and its related operations used for advertising purposes, including all lettering whether it be done by hand, mechanical or computer aided or by any other method or process pertaining to same: the construction, erection and maintenance of all billboards and all communication advertising.

Prevailing Wage Rate
Skilled Crafts

Name of Union: Painter Local 639 Zone 2 Sign

Change # : LCN01-2016fbLoc639

Craft : Painter Effective Date : 08/03/2016 Last Posted : 08/03/2016

	BHR	Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
		H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification											
Painter Sign Journeyman Tech/Team Leader Class A	$21.25	$1.33	$0.14	$0.00	$0.00	$0.00	$0.57	$0.00	$0.00	$23.29	$33.92
Painter Sign Journeyman Tech/Team Leader Class B	$21.25	$1.33	$0.14	$0.00	$0.41	$0.00	$0.57	$0.00	$0.00	$23.70	$34.32
Painter Sign Journeyman Tech/Team Leader Class C	$21.25	$1.33	$0.14	$0.00	$0.82	$0.00	$0.57	$0.00	$0.00	$24.11	$34.74
Painter Sign Journeyman Tech/Team Leader Class D	$21.25	$1.33	$0.14	$0.00	$1.23	$0.00	$0.57	$0.00	$0.00	$24.52	$35.14
Sign Journeyman Class A	$20.98	$1.33	$0.14	$0.00	$0.00	$0.00	$0.56	$0.00	$0.00	$23.01	$33.50
Sign Journeyman Class B	$20.98	$1.33	$0.14	$0.00	$0.40	$0.00	$0.56	$0.00	$0.00	$23.41	$33.90
Sign Journeyman Class C	$20.98	$1.33	$0.14	$0.00	$0.81	$0.00	$0.56	$0.00	$0.00	$23.82	$34.31
Sign Journeyman Class D	$20.98	$1.33	$0.14	$0.00	$1.21	$0.00	$0.56	$0.00	$0.00	$24.22	$34.71
Tech Sign Fabrication/ Erector Class A	$15.90	$1.33	$0.14	$0.00	$0.00	$0.00	$0.43	$0.00	$0.00	$17.80	$25.75
Tech Sign Fabrication/ Erector Class B	$15.90	$1.33	$0.14	$0.00	$0.31	$0.00	$0.43	$0.00	$0.00	$18.11	$26.06
Tech Sign Fabrication/ Erector Class C	$15.90	$1.33	$0.14	$0.00	$0.61	$0.00	$0.43	$0.00	$0.00	$18.41	$26.36
Tech Sign Fabrication/ Erector	$15.90	$1.33	$0.14	$0.00	$0.92	$0.00	$0.43	$0.00	$0.00	$18.72	$26.67

Class D												

Special Calculation Note : Other is for paid holidays.

Ratio :

Jurisdiction (* denotes special jurisdictional note) :
ADAMS, ALLEN, AUGLAIZE, BROWN, BUTLER, CARROLL, CHAMPAIGN, CLARK, CLERMONT, CLINTON, COLUMBIANA, COSHOCTON, CRAWFORD, DARKE, DEFIANCE, DELAWARE, ERIE, FAIRFIELD, FAYETTE, FRANKLIN, FULTON, GREENE, HAMILTON, HANCOCK, HARDIN, HENRY, HIGHLAND, HOLMES, HURON, JACKSON, KNOX, LICKING, LOGAN, LORAIN, LUCAS, MADISON, MAHONING, MARION, MERCER, MIAMI, MONTGOMERY, MORROW, MUSKINGUM, OTTAWA, PAULDING, PERRY, PICKAWAY, PIKE, PREBLE, PUTNAM, ROSS, SANDUSKY, SCIOTO, SENECA, SHELBY, STARK, TRUMBULL, TUSCARAWAS, UNION, VAN WERT, WARREN, WAYNE, WILLIAMS, WOOD, WYANDOT

Special Jurisdictional Note :

Details :
Class A: less that 1 year.
Class B: 1-3 years.
Class C; 3-10 years.
Class D: More than 10 years.

Prevailing Wage Rate
Skilled Crafts

Name of Union: Painter Local 639 (Cleveland Area) Sign

Change # : CN01-2006Loc639Cleve

Craft : Painter Effective Date : 01/03/2006 Last Posted : 01/03/2006

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Painter Sign	$20.20		$3.13	$3.25	$0.20	$1.96	$0.00	$0.00			$28.74	$38.84
Apprentice	Percent											
1000 hrs	40.00	$8.08	$3.13	$3.25	$0.20	$1.07	$0.00	$0.00			$15.73	$19.77
2000 hrs	50.00	$10.10	$3.13	$3.25	$0.20	$1.22	$0.00	$0.00			$17.90	$22.95
3000 hrs	60.00	$12.12	$3.13	$3.25	$0.20	$1.37	$0.00	$0.00			$20.07	$26.13
4000 hrs	70.00	$14.14	$3.13	$3.25	$0.20	$1.51	$0.00	$0.00			$22.23	$29.30
5000 hrs	75.00	$15.15	$3.13	$3.25	$0.20	$1.59	$0.00	$0.00			$23.32	$30.89
6000 hrs	80.00	$16.16	$3.13	$3.25	$0.20	$1.66	$0.00	$0.00			$24.40	$32.48
7000 hrs	85.00	$17.17	$3.13	$3.25	$0.20	$1.74	$0.00	$0.00			$25.49	$34.07
8000 hrs	90.00	$18.18	$3.13	$3.25	$0.20	$1.81	$0.00	$0.00			$26.57	$35.66

Special Calculation Note : No special calculations for this skilled craft wage rate are required at this time.

Ratio :

Jurisdiction (* denotes special jurisdictional note) :
ALLEN, ASHLAND, ASHTABULA, AUGLAIZE, BELMONT, CARROLL, CHAMPAIGN, COLUMBIANA, COSHOCTON, CRAWFORD, CUYAHOGA, DEFIANCE, ERIE, FULTON, GEAUGA, GUERNSEY, HANCOCK, HARDIN, HARRISON, HENRY, HOLMES, HURON, JEFFERSON, KNOX, LAKE, LOGAN, LORAIN, LUCAS, MAHONING, MARION, MEDINA,

MERCER, MONROE, MORROW, NOBLE, OTTAWA, PAULDING, PIKE, PORTAGE, PUTNAM, RICHLAND, SANDUSKY, SENECA, SHELBY, STARK, SUMMIT, TRUMBULL, TUSCARAWAS, VAN WERT, WASHINGTON, WAYNE, WILLIAMS, WOOD, WYANDOT

Special Jurisdictional Note :

Details :

Prevailing Wage Rate
Skilled Crafts

Name of Union: Painter Local 639 (D) Sign

Change # : CN01-2005Loc639D

Craft : Painter Effective Date : 12/12/2005 Last Posted : 12/12/2005

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Painter Sign Erector	$15.25		$3.65	$1.45	$0.10	$1.34	$0.00	$0.00			$21.79	$29.41
Sign Fabricator	$15.25		$3.65	$1.45	$0.10	$1.34	$0.00	$0.00			$21.79	$29.41
Serviceman	$15.25		$3.65	$1.45	$0.10	$1.34	$0.00	$0.00			$21.79	$29.41
Apprentice	Percent											
0-6 Months	60.00	$9.15	$3.65	$1.45	$0.10	$0.94	$0.00	$0.00			$15.29	$19.87
6-12 Months	65.00	$9.91	$3.65	$1.45	$0.10	$0.99	$0.00	$0.00			$16.10	$21.06
12-18 Months	70.00	$10.67	$3.65	$1.45	$0.10	$1.04	$0.00	$0.00			$16.91	$22.25
18-24 Months	75.00	$11.44	$3.65	$1.45	$0.10	$1.09	$0.00	$0.00			$17.73	$23.45
24-30 Months	80.00	$12.20	$3.65	$1.45	$0.10	$1.14	$0.00	$0.00			$18.54	$24.64
30-36 Months	85.00	$12.96	$3.65	$1.45	$0.10	$1.19	$0.00	$0.00			$19.35	$25.83
36-42 Months	90.00	$13.73	$3.65	$1.45	$0.10	$1.24	$0.00	$0.00			$20.16	$27.03
42-48 Months	95.00	$14.49	$3.65	$1.45	$0.10	$1.29	$0.00	$0.00			$20.98	$28.22

Special Calculation Note : Add .75 cents increase per hour for high pay over 40 feet.

Ratio :

Jurisdiction (* denotes special jurisdictional note) :

3 Journeymen to 1 Apprentice	CARROLL, COSHOCTON, HOLMES, KNOX, STARK, TUSCARAWAS, WAYNE

Special Jurisdictional Note :

Details :

Prevailing Wage Rate
Skilled Crafts

Name of Union: Plumber Pipefitter Local 94

Change # : LCN01-2020fbLoc94

Craft : Plumber/Pipefitter Effective Date : 06/04/2020 Last Posted : 06/04/2020

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Plumber Pipefitter	$35.78		$8.58	$5.94	$0.77	$0.00	$6.05	$0.19	$0.00	$0.00	$57.31	$75.20
Apprentice Hired After 05-01-2017												
1st Year	$14.31		$8.58	$0.00	$0.77	$0.00	$3.03	$0.19	$0.00	$0.00	$26.88	$34.03
2nd Year	$17.89		$8.58	$0.50	$0.77	$0.00	$3.03	$0.19	$0.00	$0.00	$30.96	$39.91
3rd Year	$21.47		$8.58	$0.50	$0.77	$0.00	$2.69	$0.19	$0.00	$0.00	$34.20	$44.93
4th Year	$25.05		$8.58	$0.74	$0.77	$0.00	$4.23	$0.19	$0.00	$0.00	$39.56	$52.09
5th Year	$28.62		$8.58	$0.75	$0.77	$0.00	$4.23	$0.19	$0.00	$0.00	$43.14	$57.45
Apprentice If Hired Before 5-01-2017	**Percent**											
5th 6 months	60.00	$21.47	$8.58	$0.50	$0.77	$0.00	$1.79	$0.19	$0.00	$0.00	$33.30	$44.03
6th 6 months	65.00	$23.26	$8.58	$0.50	$0.77	$0.00	$1.79	$0.19	$0.00	$0.00	$35.09	$46.72
7th 6 months	75.00	$26.83	$8.58	$0.50	$0.77	$0.00	$1.79	$0.19	$0.00	$0.00	$38.67	$52.08
8th 6 months	80.00	$28.62	$8.58	$0.50	$0.77	$0.00	$1.79	$0.19	$0.00	$0.00	$40.45	$54.77
9th 6 months	85.00	$30.41	$8.58	$0.50	$0.77	$0.00	$1.79	$0.19	$0.00	$0.00	$42.24	$57.45
10th 6 monthsr	90.00	$32.20	$8.58	$0.50	$0.77	$0.00	$1.79	$0.19	$0.00	$0.00	$44.03	$60.13

Special Calculation Note : Other is Industry and International Training Fund.

Ratio :

1 Journeymen to 2 Apprentice
4 Journeymen to 3 Apprentice
6 Journeymen to 4 Apprentice
9 Journeymen to 5 Apprentice

Jurisdiction (* denotes special jurisdictional note) :
CARROLL*, STARK, WAYNE

3 Journeyman to 1 Apprentice Thereafter

Special Jurisdictional Note : In Carroll County the following townships are included: Ross, Monroe, Union, Lee, Orange, Perry and London.

Details :

Prevailing Wage Rate
Skilled Crafts

Name of Union: Plumber Pipefitter Local 94

Change # : LCN01-2019fbLoc94

Craft : Plumber/Pipefitter Effective Date : 11/26/2019 Last Posted : 11/26/2019

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Plumber Pipefitter	$35.78		$8.08	$5.59	$0.72	$0.00	$5.65	$0.19	$0.00	$0.00	$56.01	$73.90
Apprentice Hired Before 05-01-2017												
3 rd 6 months	$17.89		$8.08	$0.50	$0.72	$0.00	$1.79	$0.19	$0.00	$0.00	$29.17	$38.11
4th 6 Months	$19.68		$8.08	$0.50	$0.72	$0.00	$1.79	$0.19	$0.00	$0.00	$30.96	$40.80
5th 6 Months	$21.47		$8.08	$0.50	$0.72	$0.00	$1.79	$0.19	$0.00	$0.00	$32.75	$43.48
6th 6 months	$23.26		$8.08	$0.50	$0.72	$0.00	$1.79	$0.19	$0.00	$0.00	$34.54	$46.17
7th 6 Months	$26.84		$8.08	$0.50	$0.72	$0.00	$1.79	$0.19	$0.00	$0.00	$38.12	$51.54
8th 6 Months	$28.62		$8.08	$0.50	$0.72	$0.00	$1.79	$0.19	$0.00	$0.00	$39.90	$54.21
9th 6 Months	$30.41		$8.08	$0.50	$0.72	$0.00	$1.79	$0.19	$0.00	$0.00	$41.69	$56.89
10th 6 Months	$32.20		$8.08	$0.50	$0.72	$0.00	$1.79	$0.19	$0.00	$0.00	$43.48	$59.58
Apprentice If Hired After 5-01-2017	**Percent**											
1st Year	40.00	$14.31	$8.08	$0.00	$0.72	$0.00	$2.83	$0.19	$0.00	$0.00	$26.13	$33.29
2nd Yeat	50.00	$17.89	$8.08	$0.50	$0.72	$0.00	$2.69	$0.19	$0.00	$0.00	$30.07	$39.01
3rd Year	60.00	$21.47	$8.08	$0.50	$0.72	$0.00	$2.69	$0.19	$0.00	$0.00	$33.65	$44.38
4th Year	70.00	$25.05	$8.08	$0.73	$0.72	$0.00	$4.24	$0.19	$0.00	$0.00	$39.01	$51.53
5th Year	80.00	$28.62	$8.08	$0.74	$0.72	$0.00	$4.24	$0.19	$0.00	$0.00	$42.59	$56.91

Special Calculation Note : Other is Industry and International Training Fund.

Ratio : **Jurisdiction (* denotes special**

1 Journeymen to 2 Apprentice
4 Journeymen to 3 Apprentice
6 Journeymen to 4 Apprentice
9 Journeymen to 5 Apprentice

3 Journeyman to 1 Apprentice Thereafter

jurisdictional note) :
CARROLL*, STARK, WAYNE

Special Jurisdictional Note : In Carroll County the following townships are included: Ross, Monroe, Union, Lee, Orange, Perry and London.

Details :

Prevailing Wage Rate
Skilled Crafts

Name of Union: Roofer Local 88

Change # : LCN01-2021fbLoc88

Craft : Roofer **Effective Date :** 06/09/2021 **Last Posted :** 06/09/2021

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Roofer	$27.47		$8.90	$9.80	$0.40	$0.00	$1.50	$0.18	$0.00	$0.00	$48.25	$61.99
HELPERS												
Helper -500 Hrs. 1st 6 months	$15.38		$2.25	$0.00	$0.40	$0.00	$1.50	$0.18	$0.00	$0.00	$19.71	$27.40
Helper - 500 Hrs. 2nd 6 months	$17.03		$8.90	$9.80	$0.40	$0.00	$1.50	$0.18	$0.00	$0.00	$37.81	$46.33
2nd year Helper	$18.68		$8.90	$9.80	$0.40	$0.00	$1.50	$0.18	$0.00	$0.00	$39.46	$48.80
3rd year Helper	$20.33		$8.90	$9.80	$0.40	$0.00	$1.50	$0.18	$0.00	$0.00	$41.11	$51.27
4th year Helper	$21.98		$8.90	$9.80	$0.40	$0.00	$1.50	$0.18	$0.00	$0.00	$42.76	$53.75
5th year Helper	$23.62		$8.90	$9.80	$0.40	$0.00	$1.50	$0.18	$0.00	$0.00	$44.40	$56.21
6th year Helper	$25.27		$8.90	$9.80	$0.40	$0.00	$1.50	$0.18	$0.00	$0.00	$46.05	$58.69
Apprentice	**Percent**											
1st 6 months w/500 hrs	56.00	$15.38	$8.90	$9.80	$0.40	$0.00	$1.50	$0.18	$0.00	$0.00	$36.16	$43.85
2nd 6 months w/500 hrs	62.00	$17.03	$8.90	$9.80	$0.40	$0.00	$1.50	$0.18	$0.00	$0.00	$37.81	$46.33
3rd 6 months w/500 hrs	68.00	$18.68	$8.90	$9.80	$0.40	$0.00	$1.50	$0.18	$0.00	$0.00	$39.46	$48.80
4th 6 months w/500 hrs	74.00	$20.33	$8.90	$9.80	$0.40	$0.00	$1.50	$0.18	$0.00	$0.00	$41.11	$51.27
5th 6 months w/500 hrs	80.00	$21.98	$8.90	$9.80	$0.40	$0.00	$1.50	$0.18	$0.00	$0.00	$42.76	$53.74

6th 6 months w/500 hrs	86.00	$23.62	$8.90	$9.80	$0.40	$0.00	$1.50	$0.18	$0.00	$0.00	$44.40	$56.22
7th 6 months w/500 hrs	92.00	$25.27	$8.90	$9.80	$0.40	$0.00	$1.50	$0.18	$0.00	$0.00	$46.05	$58.69

Special Calculation Note : Roofers working in any form of coal tar pitch, whether hot or cold, installing and/or removing will be paid $.25 more per hour.
Other $0.18 is for C.I.D.B.

Ratio :

No helper shall be used on any one job unless 1 Journeymen, and 1 Apprentices are working on said job .One
(1) Journeymen to One (1) Apprentice to One (1) Helper

Jurisdiction (* denotes special jurisdictional note) :

ASHLAND, CARROLL, COSHOCTON, CRAWFORD, HOLMES, HURON, LORAIN*, MEDINA, PORTAGE, RICHLAND, STARK, SUMMIT, TUSCARAWAS, WAYNE

Special Jurisdictional Note : In Lorain County (South of the Turnpike)

Details :

Prevailing Wage Rate
Skilled Crafts

Name of Union: Sheet Metal Local 33 (Akron)

Change # : LCN02-2021fbLoc33Akron

Craft : Sheet Metal Worker **Effective Date :** 08/01/2021 **Last Posted :** 07/28/2021

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Sheet Metal Worker	$32.65		$9.00	$13.04	$0.93	$0.00	$7.20	$0.00	$0.00	$0.00	$62.82	$79.14
Industrial Door	$23.36		$8.27	$5.44	$0.17	$0.00	$2.15	$0.00	$0.00	$0.00	$39.39	$51.07
Apprentice Helper Trainee												
1st 60 Days Probationary Period	$12.15		$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$12.15	$18.23
61 days-12 Months	$13.55		$8.27	$1.88	$0.17	$0.00	$1.41	$0.00	$0.00	$0.00	$25.28	$32.06
2nd Year	$15.89		$8.27	$1.88	$0.17	$0.00	$1.59	$0.00	$0.00	$0.00	$27.80	$35.75
3rd Year	$17.05		$8.27	$1.88	$0.17	$0.00	$1.69	$0.00	$0.00	$0.00	$29.06	$37.59
4th Year	$18.69		$8.27	$1.88	$0.17	$0.00	$1.80	$0.00	$0.00	$0.00	$30.81	$40.16
5th Year	$20.09		$8.27	$1.88	$0.17	$0.00	$1.91	$0.00	$0.00	$0.00	$32.32	$42.37
Apprentice	Percent											
Apprentice												
1st year	45.00	$14.69	$9.00	$3.54	$0.17	$0.00	$0.00	$0.00	$0.00	$0.00	$27.40	$34.75
2nd year	50.00	$16.32	$9.00	$3.93	$0.93	$0.00	$3.60	$0.00	$0.00	$0.00	$33.78	$41.95
3rd year	55.00	$17.96	$9.00	$4.32	$0.93	$0.00	$3.60	$0.00	$0.00	$0.00	$35.81	$44.79
4th year	65.00	$21.22	$9.00	$5.11	$0.93	$0.00	$3.60	$0.00	$0.00	$0.00	$39.86	$50.47
5th year	80.00	$26.12	$9.00	$6.29	$0.93	$0.00	$3.60	$0.00	$0.00	$0.00	$45.94	$59.00

Special Calculation Note : No special calculations for this skilled craft wage rate are required at this time.

Ratio :

1 Journeymen to 1 Apprentice
2 Journeymen to 1 Apprentice
3 Journeymen to 2 Apprentice
4 Journeymen to 2 Apprentice
5-7 Journeymen to 3 Apprentice
8-10 Journeymen to 4 Apprentice

Jurisdiction (* denotes special jurisdictional note) :

ASHLAND, CARROLL, COSHOCTON, CRAWFORD, HOLMES, MEDINA, PORTAGE, RICHLAND, STARK, SUMMIT, TUSCARAWAS, WAYNE

11-13 Journeymen to 5 Apprentice
14, 15 Journeymen to 6 Apprentice
and maintaining a three to one apprentice ratio
thereafter.

Special Jurisdictional Note :

Details :

Scope of Work: This Agreement covers the rates of pay and conditions of employment of all employees of the Employer engaged in, but not limited to, the a) manufacture, fabrication, assembling, handling, erection, installation, dismantling, conditioning, adjustment, alteration, repairing and servicing of all ferrous or non-ferrous metal work and all other materials used in lieu thereof and of all HVAC systems, air-veyor systems, exhaust systems, and air handling systems regardless of material used, including the setting of all equipment and all reinforcements in connection therewith; (b) all lagging over insulation and all duct-lining; (c) testing, servicing, and balancing of all air-handling equipment and duct work; (d) the preparation of all shop and field sketches, whether manually drawn or computer assisted, used in fabrication and erection, including those taken from original architectural and engineering drawings or sketches, and (e) metal roofing; and (f) all other work included in the jurisdictional claims of Sheet Metal Worker's International Association.
Industrial Door-Installation and service of overhead doors roll up doors, docks and dock leveling.

Prevailing Wage Rate
Skilled Crafts

Name of Union: Sheet Metal Local 33 (Akron) Decking

Change # : CN01-2009Loc33(Akron)Deck

Craft : Sheet Metal Worker Effective Date : 09/24/2009 Last Posted : 09/24/2009

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Sheet Metal Worker Decking & Siding	$20.06		$6.31	$6.35	$0.38	$0.00	$0.00	$0.98			$34.08	$44.11
Decking & Siding Specialty Trainees	**Percent**											
1st 30 days	64.25	$12.89	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00			$12.89	$19.33
2nd thru 6th months	64.25	$12.89	$6.31	$6.35	$0.00	$0.00	$0.00	$0.00			$25.55	$31.99
7th thru 12th months	64.28	$12.89	$6.31	$6.35	$0.38	$0.00	$0.00	$0.98			$26.91	$33.36
2nd year	78.56	$15.76	$6.31	$6.35	$0.38	$0.00	$0.00	$0.98			$29.78	$37.66

Special Calculation Note : No special calculations for this skilled craft wage rate are required at this time.

Ratio :

Jurisdiction (* denotes special jurisdictional note) :

3 Journeymen To 1 Apprentice	ASHLAND, CARROLL, COSHOCTON, CRAWFORD, HOLMES, MEDINA, PORTAGE, RICHLAND, STARK, SUMMIT, TUSCARAWAS, WAYNE

Special Jurisdictional Note :

Details :

Work but not limited to:Exterior application of manufactured and/or job site fabricated metal decking, siding and exterior appurtenances thereto. The erection of pre-engineered metal buildings, pre-manufactured gas stations and appurtenances thereto. The installation of metal roofs and appurtenances. The erection and/or job site fabrication of draft or fire curtains and appurtenances thereto.

Prevailing Wage Rate
Skilled Crafts

Name of Union: Sprinkler Fitter Local 669

Change # : LCN01-2021fbLoc669

Craft : Sprinkler Fitter Effective Date : 04/01/2021 Last Posted : 03/31/2021

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Sprinkler Fitter	$41.87		$10.55	$7.00	$0.52	$0.00	$5.12	$0.10	$0.00	$0.00	$65.16	$86.09
Apprentice Indentured after April 1, 2013	**Percent**											
ClLASS 1	45.00	$18.84	$7.75	$0.00	$0.52	$0.00	$0.00	$0.10	$0.00	$0.00	$27.21	$36.63
CLASS 2	50.00	$20.93	$7.75	$0.00	$0.52	$0.00	$0.00	$0.10	$0.00	$0.00	$29.30	$39.77
CLASS 3	54.40	$22.78	$10.55	$7.00	$0.52	$0.00	$1.15	$0.10	$0.00	$0.00	$42.10	$53.49
CLASS 4	59.40	$24.87	$10.55	$7.00	$0.52	$0.00	$1.15	$0.10	$0.00	$0.00	$44.19	$56.63
CLASS 5	64.42	$26.97	$10.55	$7.00	$0.52	$0.00	$1.40	$0.10	$0.00	$0.00	$46.54	$60.03
CLASS 6	69.40	$29.06	$10.55	$7.00	$0.52	$0.00	$1.40	$0.10	$0.00	$0.00	$48.63	$63.16
CLASS 7	74.40	$31.15	$10.55	$7.00	$0.52	$0.00	$1.40	$0.10	$0.00	$0.00	$50.72	$66.30
CLASS 8	79.42	$33.25	$10.55	$7.00	$0.52	$0.00	$1.40	$0.10	$0.00	$0.00	$52.82	$69.45
CLASS 9	84.40	$35.34	$10.55	$7.00	$0.52	$0.00	$1.40	$0.10	$0.00	$0.00	$54.91	$72.58
CLASS 10	89.40	$37.43	$10.55	$7.00	$0.52	$0.00	$1.40	$0.10	$0.00	$0.00	$57.00	$75.72

Special Calculation Note : $0.10 for Other is National Fire Sprinkler Association

Ratio :

1 Journeyman to 1 Apprentice

Jurisdiction (* denotes special jurisdictional note) :

ADAMS, ALLEN, ASHLAND, ASHTABULA, ATHENS, AUGLAIZE, BELMONT, BROWN, BUTLER, CARROLL, CHAMPAIGN, CLARK, CLERMONT, CLINTON, COLUMBIANA, COSHOCTON, CRAWFORD, DARKE, DEFIANCE, DELAWARE, ERIE, FAIRFIELD, FAYETTE, FRANKLIN, FULTON, GALLIA, GREENE, GUERNSEY, HAMILTON, HANCOCK, HARDIN, HARRISON, HENRY, HIGHLAND, HOCKING, HOLMES, HURON, JACKSON, JEFFERSON, KNOX, LAWRENCE, LICKING, LOGAN, LUCAS, MADISON, MAHONING, MARION, MEDINA, MEIGS, MERCER, MIAMI, MONROE, MONTGOMERY, MORGAN, MORROW,

MUSKINGUM, NOBLE, OTTAWA, PAULDING, PERRY, PICKAWAY, PIKE, PORTAGE, PREBLE, PUTNAM, RICHLAND, ROSS, SANDUSKY, SCIOTO, SENECA, SHELBY, STARK, SUMMIT, TRUMBULL, TUSCARAWAS, UNION, VAN WERT, VINTON, WARREN, WASHINGTON, WAYNE, WILLIAMS, WOOD, WYANDOT

Special Jurisdictional Note :

Details :

Sprinkler Fitter work shall consist of the installation,dismantling,maintenance,repairs,adjustments,and corrections of all fire protection and fire control systems including the unloading,handling by hand,power equipment and installation of all piping or tubing,appurtenances and equipment pertaining thereto,including both overhead and underground water mains,fire hydrants and hydrant mains,standpipes and hose connections to sprinkler systems used in connection with sprinkler and alarm systems. Also all tanks and pumps connected thereto,also included shall be CO-2 and Cardox Systems, Dry Chemical Systems,Foam Systems and all other fire protection systems.

Prevailing Wage Rate
Skilled Crafts

Name of Union: Truck Driver Bldg & HevHwy Class 1
Locals 20,40,92,92b,100,175,284,438,377,637,908,957

Change # : LCRO1-2021fbBldgHevHwy

Craft : Truck Driver Effective Date : 05/21/2021 Last Posted : 05/21/2021

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Truck Driver CLASS 1 4 wheel service, dump, and batch trucks, Oil Distributor - Asphalt Distributor-Tandems	$29.24		$7.50	$8.50	$0.20	$0.00	$0.00	$0.00	$0.00	$0.00	$45.44	$60.06
Apprentice	Percent											
First 6 months	80.00	$23.39	$7.50	$8.50	$0.20	$0.00	$0.00	$0.00	$0.00	$0.00	$39.59	$51.29
7-12 months	85.00	$24.85	$7.50	$8.50	$0.20	$0.00	$0.00	$0.00	$0.00	$0.00	$41.05	$53.48
13-18 months	90.00	$26.32	$7.50	$8.50	$0.20	$0.00	$0.00	$0.00	$0.00	$0.00	$42.52	$55.67
19-24 months	95.00	$27.78	$7.50	$8.50	$0.20	$0.00	$0.00	$0.00	$0.00	$0.00	$43.98	$57.87
25-30 months	100.00	$29.24	$7.50	$8.50	$0.20	$0.00	$0.00	$0.00	$0.00	$0.00	$45.44	$60.06

Special Calculation Note : No special calculations for this skilled craft wage rate are required at this time.

Ratio :

3 Journeymen to 1 Apprentice

Jurisdiction (* denotes special jurisdictional note) :

ADAMS, ALLEN, ASHLAND, ASHTABULA, ATHENS, AUGLAIZE, BELMONT, BROWN, BUTLER, CARROLL, CHAMPAIGN, CLARK, CLERMONT, CLINTON, COLUMBIANA, COSHOCTON, CRAWFORD, DARKE, DEFIANCE, DELAWARE, ERIE, FAIRFIELD, FAYETTE, FRANKLIN, FULTON, GALLIA, GREENE, GUERNSEY, HAMILTON, HANCOCK, HARDIN,

HARRISON, HENRY, HIGHLAND, HOCKING, HOLMES, HURON, JACKSON, JEFFERSON, KNOX, LAWRENCE, LICKING, LOGAN, LORAIN, LUCAS, MADISON, MAHONING, MARION, MEDINA, MEIGS, MERCER, MIAMI, MONROE, MONTGOMERY, MORGAN, MORROW, MUSKINGUM, NOBLE, OTTAWA, PAULDING, PERRY, PICKAWAY, PIKE, PORTAGE, PREBLE, PUTNAM, RICHLAND, ROSS, SANDUSKY, SCIOTO, SENECA, SHELBY, STARK, SUMMIT, TRUMBULL, TUSCARAWAS, UNION, VAN WERT, VINTON, WARREN, WASHINGTON, WAYNE, WILLIAMS, WOOD, WYANDOT

Special Jurisdictional Note :

Details :

** Asphalt - Oil spray bar man when operating from cab shall receive $0.20 cents per hour above their Basic Hourly Rate.

Prevailing Wage Rate
Skilled Crafts

Name of Union: Truck Driver Bldg & HevHwy Class 2
Locals 20,40,92,92b,100,175,284,438,377,637,908,957

Change # : LCRO1-2021fbBldgHevHwy

Craft : Truck Driver Effective Date : 05/21/2021 Last Posted : 05/21/2021

	BHR		Fringe Benefit Payments						Irrevocable Fund		Total PWR	Overtime Rate
			H&W	Pension	App Tr.	Vac.	Annuity	Other	LECET (*)	MISC (*)		
Classification												
Truck Driver CLASS 2 Tractor Trailer-Semi Tractor Trucks-Pole Trailers-Ready Mix Trucks-Fuel Trucks-Asphalt-Oil Spray bar men- 5 Axle & Over -Belly Dumps-End Dumps-Articulated Dump Trucks- Low boys-Heavy duty Equipment(irrespective of load carried) when used exclusively for transportation-Truck Mechanics (when needed)	$29.66		$7.50	$8.50	$0.20	$0.00	$0.00	$0.00	$0.00	$0.00	$45.86	$60.69
Apprentice	**Percent**											
First 6 months	80.00	$23.73	$7.50	$8.50	$0.20	$0.00	$0.00	$0.00	$0.00	$0.00	$39.93	$51.79
7-12 months	85.00	$25.21	$7.50	$8.50	$0.20	$0.00	$0.00	$0.00	$0.00	$0.00	$41.41	$54.02
13-18 months	90.00	$26.69	$7.50	$8.50	$0.20	$0.00	$0.00	$0.00	$0.00	$0.00	$42.89	$56.24
19-24 months	95.00	$28.18	$7.50	$8.50	$0.20	$0.00	$0.00	$0.00	$0.00	$0.00	$44.38	$58.47
25-30 months	100.00	$29.66	$7.50	$8.50	$0.20	$0.00	$0.00	$0.00	$0.00	$0.00	$45.86	$60.69

Special Calculation Note : No special calculations for this skilled craft wage rate are required at this time.

Ratio :

3 Journeymen to 1 Apprentice

Jurisdiction (* denotes special jurisdictional note) :

ADAMS, ALLEN, ASHLAND, ASHTABULA, ATHENS, AUGLAIZE, BELMONT, BROWN, BUTLER, CARROLL, CHAMPAIGN, CLARK, CLERMONT, CLINTON, COLUMBIANA, COSHOCTON, CRAWFORD, DARKE, DEFIANCE, DELAWARE, ERIE, FAIRFIELD, FAYETTE, FRANKLIN, FULTON, GALLIA, GREENE, GUERNSEY, HAMILTON, HANCOCK, HARDIN,

HARRISON, HENRY, HIGHLAND, HOCKING, HOLMES, HURON, JACKSON, JEFFERSON, KNOX, LAWRENCE, LICKING, LOGAN, LORAIN, LUCAS, MADISON, MAHONING, MARION, MEDINA, MEIGS, MERCER, MIAMI, MONROE, MONTGOMERY, MORGAN, MORROW, MUSKINGUM, NOBLE, OTTAWA, PAULDING, PERRY, PICKAWAY, PIKE, PORTAGE, PREBLE, PUTNAM, RICHLAND, ROSS, SANDUSKY, SCIOTO, SENECA, SHELBY, STARK, SUMMIT, TRUMBULL, TUSCARAWAS, UNION, VAN WERT, VINTON, WARREN, WASHINGTON, WAYNE, WILLIAMS, WOOD, WYANDOT

Special Jurisdictional Note :

Details :

** Asphalt - Oil spray bar man when operating from cab shall receive $0.20 cents per hour above their Basic Hourly Rate.

Appendix C

LIMITED PHASE II ENVIRONMENTAL SITE ASSESSMENT

Clark Avenue Extension, Canton, Ohio

Prepared for: **City of Canton**
Mr. Dan Moeglin, P.E.
City Engineer
2436 30th Street NE
Canton, Ohio 44705

Project No.: 12898
Date: November 20, 2020

Prepared by:

EnviroScience
Excellence In Any Environment
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Stow, OH 44224
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ACRONYMS AND ABBREVIATIONS

AMSL	Above Mean Sea Level
BGS	Below Ground Surface
CIDARS	Chemical Information Database and Applicable Regulatory Standards
COC	Chemicals of Concern
ESA	Environmental Site Assessment
GDCSS	Generic Direct Contact Soil Standards
OEPA	Ohio Environmental Protection Agency
PAH	Polynuclear Aromatic Hydrocarbons
PCB	Polychlorinated Biphenyls
PID	Photo Ionization Detector
PPM	Parts Per Million
TAL	Target Analyte List Metals
USDA	U.S. Department of Agriculture
USEPA	U.S. Environmental Protection Agency
USGS	U.S. Geological Survey
VAP	Voluntary Action Program
VOC	Volatile Organic Compounds

EXECUTIVE SUMMARY

The City of Canton is proposing to construct an extension of Clark Avenue beginning at the existing Clark Avenue SW / 20th Street SW intersection southward approximately 0.09 miles to Timken Place SW at the existing Wheeling Lake Erie Railroad crossing (the Site). The City of Canton retained EnviroScience, Inc. to conduct a Limited Phase II Environmental Site Assessment (ESA) Soil Investigation of the proposed project area.

The proposed project area is within an industrial area that was historically part of the TimkenSteel facility. Knowing that the project area was an industrial site, the City of Canton advised that EnviroScience progress directly to a Phase II Investigation

To preliminarily assess the potential chemicals of concern (COC) impacts at the Site, a total of eight test pit trenches, approximately 8 to 10 feet in length x 2 feet in width, were dug by a hydraulic excavator provided by the City of Canton service department. The trenched test pits were located at approximately equal distances apart along the proposed roadway alignment except where prohibited by field conditions. Preliminary roadway plans provided by the City of Canton indicated that construction excavation activities would not disturb greater than 7 feet below ground surface. The depth of excavation at each test pit location was based on the closest corresponding cross-section work depth, as contained in the preliminary plans.

Soil samples were collected and submitted to an accredited lab to be analyzed for a variety of analytical parameters, and the results were compared to the Ohio Environmental Protection Agency Voluntary Action Program (VAP) Generic Direct Contact Soil Standards (GDCSS) for residential land use.

Lab analysis of soil samples taken by EnviroScience field scientists from the test pits indicates low-level detections of various metals, PAHs, and PCBs from the soil samples submitted for analysis. In summary, all the detected COC were below the Ohio VAP GDCSS for residential land use except for arsenic. However, the arsenic concentrations are all well below the GDCSS for commercial/industrial use (100 mg/kg) and are below the commercial land use with high-frequency child exposure GDCSS for arsenic of 46 mg/kg.

Arsenic can be readily found in native soils in Northeast Ohio at concentrations comparable or greater than the Ohio VAP GDCSS low-level residential value of 14 milligrams per kilogram (mg/Kg). At the detected concentrations of arsenic in the soil samples, the results suggest that arsenic levels may indicate naturally occurring concentrations.

Conclusions - No obvious signs of environmental contamination were observed during excavation and sampling operations. Various assorted fill consisting of rock, brick, concrete, gravel, asphalt remnants, etc., were observed and would be encountered during construction.

Recommendations - Based on the analytical data results, no further environmental assessment is warranted at the Site.

1.0 BACKGROUND

The City of Canton is proposing to construct an extension of Clark Avenue beginning at the existing Clark Avenue SW / 20th Street SW intersection southward approximately 0.09 miles to Timken Place SW at the existing Wheeling Lake Erie Railroad crossing. Mr. Dan Moeglin, P.E., City Engineer for the City of Canton, retained EnviroScience, Inc. to conduct a Limited Phase II Environmental Site Assessment (ESA) Soil Investigation of the proposed project area.

This report documents the findings and conclusions of the Limited Phase II ESA completed for the project area (Site).

1.1 SITE DESCRIPTION

The Site is located in the City of Canton, Stark County, Ohio, on former industrial property once owned by the TimkenSteel Corporation (See Figure 1 and 2, Appendix A). The City has since acquired the necessary right-of-way from TimkenSteel to construct the roadway project. The dedicated right-of-way parcel, as identified by the Stark County Auditor, is summarized in Table 1 below. Specifically, the right-of-way footprint is 449 feet in length, 60 feet in width, and occupies 0.623 acres of land area. It extends from the south right-of-way limits of 20th Street SW to the north right-of-way limits of the Wheeling and Lake Erie Railroad.

The Site is on a portion of converted greenspace located in a heavy industrial area surrounded by outlying residential properties and other commercial businesses. The Site is generally bounded to the north by 20th Street SW, a TimkenSteel parking lot, and residential properties; east by TimkenSteel industrial land that has been converted to greenspace and a walking path; south by Timken Place SW, Wheeling and Lake Erie Railroad, and various commercial/industrial properties; and west by TimkenSteel parking lots and industrial land.

Table 1. Site Information

Item	Site Description
Location	20th Street SW and Clark Avenue Intersection, Canton Ohio (Stark County)
Latitude (North) Longitude West) Elevation	40.7765 - centroid of site -81.3926 – centroid of site 1,034 feet above mean sea level – centroid of site
Current Use	300-1-Industrial Vacant Land
Parcel Number(s)	PPN 10011857
Total Land Area	0.623 acres
Ownership Information	City of Canton, 218 Cleveland Ave. SW. Canton Ohio 44702

1.2 PRIOR ENVIRONMENTAL INVESTIGATIONS

Neither the City nor EnviroScience conducted preliminary site assessments (ESA Screening or Phase I ESA) prior to this Limited Phase II Environmental Site Assessment Soil Investigation. The proposed project area is within an industrial area that was historically part of the TimkenSteel facility. Knowing that the project area was an industrial site, the City of Canton advised that EnviroScience progress directly to a Phase II Investigation. Discussions with TimkenSteel and the City confirmed that the project vicinity has been undergoing extensive environmental assessment and remediation due to the demolition and closure of various TimkenSteel facilities.

To provide an overview of the ongoing environmental work underway in the vicinity of the planned roadway extension, TimkenSteel provided the City of Canton and EnviroScience site mapping, soil boring and well installation logs, and analytical results for soil, groundwater, and soil gas. According to the site map entitled, *Proposed Clark Avenue Extension Environmental Matters, Haley, and Aldrich, January 2020,* known environmental concerns in the vicinity of the proposed Clark Avenue extension right-of-way include:

- Former industrial boiler house located at the northernmost limits of the proposed roadway extension that has been razed and site/foundations filled
- Potential presence of coal ash from boiler house operations
- Former oil house and aboveground storage tanks approximately 300-600 feet west of the proposed roadway work, including an area that has been capped
- Former diesel underground storage tank area mapped approximately 150 feet east of the proposed roadway work
- Trichloroethene plume
- Former American Bridge Ironworks
- Composition of priorly placed fill

Numerous soil borings/monitoring wells have been placed in the vicinity, mostly to the west and north of the proposed roadway project. The mapping also illustrates the presence of a recovery system consisting of piping and a recovery system building west and northwest of the project area. Analytical data indicates varying levels of chlorinated volatile organics and petroleum hydrocarbons in the soils and groundwater in the general vicinity. Haley & Aldrich mapping and analytical data are included in Appendix B.

Further, discussions with the City indicate that the former boiler house used coal and created coal ash, which can contain remnant metals including lead, mercury, cadmium, chromium, arsenic, and selenium.

1.3 PURPOSE

The objective of this limited Phase II ESA is to further define the composition of soil/fill along the Clark Avenue extension project limits and reduce uncertainty regarding the potential for impact to the Site resulting from historical site activities and long-time industrial land-use within the project area and surrounding vicinity. The limited Phase II investigation focused only on the estimated limits of construction and anticipated depths of excavation as determined by reviewing preliminary roadway design plans provided by the City.

The limited Phase II ESA was conducted to determine the presence or absence of indicator contaminants associated with past site usage identified through the environmental information provided by TimkenSteel and the Haley & Aldrich documentation. The scope of services was not intended to identify every chemical possibly associated with the Site. Delineating the vertical or horizontal extent of any contamination was beyond the scope of this investigation.

The results of this investigation will be used to assist the City and contractor(s) in managing soil and groundwater encountered during the construction of the roadway extension and aid in identifying potential health/safety concerns onsite.

1.4 SCOPE OF SERVICES

Based on the identified conditions and in consideration of the City's stated objectives in Section 1.3, EnviroScience proposed to assess the potential for impact as identified in Section 1.2 using subsurface exploration and sampling of environmental media, including soil and groundwater (if encountered). In this specific instance, the City and EnviroScience mutually decided to excavate test pit trenches as opposed to advancing borings via direct push technology (Geoprobe®) equipment. The reasoning being that the open trench would reveal substantially more subsurface area than a 2-inch diameter Geoprobe® tube sampler, thus allowing the subsurface conditions and fill to be better observed and assessed. This method would also allow for a discrete grab sample to be selected based on the trench's worst conditions. This methodology proved to provide a more realistic indication of sub-surface conditions likely to be encountered during road construction.

To preliminarily assess the project area, a total of eight test pit trenches, approximately 8 to 10 feet in length x 2 feet in width, were dug by a hydraulic excavator provided by the City of Canton service department. The trenched test pits were located at approximately equal distances apart along the proposed roadway alignment except where prohibited by field conditions. Preliminary roadway plans provided by the City of Canton indicated that construction excavation activities would not disturb greater than 7 feet below ground surface (bgs). The depth of excavation at each test pit location was based on the closest corresponding cross-section work depth, as contained in the preliminary plans (see Preliminary Design Plans in Appendix C).

Soil samples were collected from the trenches and submitted to an accredited lab to be analyzed for the following:

- Volatile organic compounds (VOC)
- Polynuclear aromatic hydrocarbons (PAH)
- Polychlorinated biphenyls (PCB)
- Target Analyte List Metals (TAL)

The analytical results were compared to the Ohio Environmental Protection Agency (OEPA) Voluntary Action Program (VAP) Single Chemical Generic Direct Contact Soil Standards (GDCSS) for residential land use.

No groundwater was encountered during excavations.

1.5 DESCRIPTION OF TOPOGRAPHY AND SOILS

The Site is contained within an area of highly disturbed fill that has been landscaped and converted to greenspace and a walking path. The area of interest for this investigation was limited to the proposed roadway alignment within a depth range of 1 to 7 feet, which is the maximum depth of excavation expected for construction of the proposed roadway extension.

<u>USGS Topographic Mapping</u> – According to information obtained from the U.S. Geological Survey (USGS) 7.5 Minute Series Topographic Map (Canton West quadrangle) dated 2013 and Google Earth® aerial imagery mapping, the Site elevation ranges in elevation from 1,026 feet above mean sea level (AMSL) at the 20th Street SW terminus to a high point of approximately 1,032 feet AMSL approximately mid-site. The proposed southern terminus tie-in with Timken Place (at the railroad) is approximately 1,023 feet AMSL. The surrounding area's topography is flat to gently rolling with

a generally lower topographic gradient to the east toward Nimishillen Creek (see Figure 2, Appendix A.)

NRCS Soils Mapping – According to the United States Department of Agriculture (USDA) Soil Conservation Service mapping, the Site is almost entirely underlain by:

- Ur – Urban Land soil type

In Stark County, Urban land (Ur) occurs in the central business districts of Canton, Massillon, and Alliance, and surrounding areas. It also occurs in large industrial complexes. This mapping unit consists of land used for buildings, streets, and sidewalks, and areas where soil material has been removed or covered by fill material. In most areas, because cut and fill operations have altered the original soils, the soil profile cannot be recognized. This alteration is very descriptive of the Clark Avenue roadway extension site. The native soil profile in the project area has been altered and consists of grading and fill resulting from historical industrial operations and demolition operations to remove underground storage tanks, a former railroad siding, and the old boiler house. Extensive fill has been placed to fill foundations and to regrade the surrounding land, and construct greenspace and the walking path (see Figure 3, Appendix A).

2.0 SUBSURFACE ASSESSMENT ACTIVITIES

2.1 SITE SAFETY

Fieldwork was performed using the United States Environmental Protection Agency (USEPA) modified Level D work attire consisting of hard hats, safety glasses, protective gloves, and protective boots. The lead EnviroScience field representative performed a tailgate safety briefing, and an EnviroScience Anticipated Hazards Analysis safety form was filled out and signed by all parties participating in the fieldwork activities. In addition, the Ohio Utility Protection Services was contacted and requested for location and markings for all utilities that the service was responsible for before commencing intrusive activities at the Site.

2.2 SAMPLING ACTIVITIES

Sampling activities were performed in general accordance with the Sampling and Analysis Plan dated August 31, 2020, prepared by EnviroScience, Inc. (see Aerial Mapping with Proposed Test Pit Locations, Figure 4, Appendix A).

Excavation – On September 1 and 2, 2020, EnviroScience field personnel observed a City of Canton rubber-tired backhoe/loader excavate eight test pit trenches (designated TP-1 through TP-8) to various depths as determined by a target excavation depth and actual field conditions. Target excavation depths at each test pit location were determined based on the roadway profile and nearest corresponding cross-section/depth of excavation from the preliminary roadway plans. The excavation was terminated if impenetrable media such as concrete, rock, or other hard fill was encountered.

Soil Sampling – EnviroScience field scientists collected discrete grab soil samples from within each test pit trench for lab analysis based on field observations pertaining to geologic conditions (e.g., samples above confining layers of soil or above the encountered soil/groundwater interface), observed staining or other visual indicators, odors, or elevated photo ionization detector (PID) meter readings. Based on the absence of discernable contamination (e.g., visual staining or elevated PID readings), soil samples were selected to provide an appropriate spatial sample distribution. Two samples were taken from different depths within each trench where possible. If impenetrable fill was encountered at shallow depths, only one sample was obtained.

A sample description including observations of the soils and fill, trench length and depth, target depth and actual trench depth, and depth of sample as well as PID soil screening readings were recorded on the Sample Collection Data Forms presented in Appendix D. At the completion of field activities, the City of Canton backhoe operator backfilled the test pit trenches by placing the excavated material back in the hole.

After packaging each sample in laboratory-provided containers, EnviroScience field staff recorded the sample time on each container label in permanent ink and place the filled containers in an ice-filled cooler accompanied by a completed chain-of-custody for transport to Eurofins TestAmerica, a NELAP accredited laboratory in North Canton, Ohio.

Groundwater Sampling – Groundwater was not encountered in any of the eight test pit trenches. No groundwater sampling was performed.

Laboratory Analysis – After discussions with TimkenSteel and the City of Canton and reviewing Haley and Aldrich's documentation, a comprehensive sampling regime was proposed that would cover typical chemicals of concern (COCs) encountered in an industrialized environment.

The soil samples were analyzed for the following constituents:

- Volatile organic compounds (VOC) via USEPA Method 8260B
- Polynuclear aromatic hydrocarbons (PAH) via USEPA Method 8270C
- Polychlorinated biphenyls (PCB) via USEPA Method 8082A
- Target Analyte List (TAL) metals via USEPA Method 6010B/7471A

3.0 FIELD INVESTIGATION RESULTS

3.1 GEOLOGY/HYDROGEOLOGY

In general, materials excavated on the Site consisted of a thin upper topsoil layer followed by brown/dark brown soils and clay with various mixed fill debris consisting of rock, brick, concrete, and asphalt-like material. Excavation depths were limited to between 1 and 7 feet. Several excavations were terminated at a shallow depth due to encountering impenetrable media such as concrete, rock, or other hard fill. The depth of TP-8 was terminated at 1 foot bgs on account of hitting an electric conduit with the excavator bucket just below the ground surface.

In summary, no substantial visual environmental concerns were observed in any of the test pit trenches. Although miscellaneous assorted fill was encountered as described above, no obvious signs of environmental contamination were observed during excavation and sampling operations. However, the concrete slabs and other hard, impenetrable fills would be encountered during construction excavations.

Further, no groundwater was encountered during excavation and sampling operations.

3.2 FIELD SCREENING

The field screening results are summarized in the Sample Collection Data Forms presented in Appendix D. Elevated PID readings, above background, were not detected in the soils excavated from the trenches. The highest reading, 16.90 parts per million (ppm), was detected in TP-2 at a depth of 2 to 4 feet bgs.

EnviroScience field scientists noted a slight odor in TP-4; however, the PID reading was only 1.0 ppm.

4.0 ANALYTICAL RESULTS

4.1 INTERPRETATION OF DATA

The following discussion describes and summarizes the analytical results of the limited Phase II ESA. Analytical data are summarized in Appendix E, "Summary of Detected Analytes in the Soils" Tables E-1, E-2, and E-3. The full Eurofins TestAmerica Analytical Laboratory Report and chain-of-custody records are contained in Appendix F.

As a preliminary method of comparison and review, the detected Site COC concentrations were compared to the latest OEPA VAP risk-based Single Chemical GDCSS promulgated under the Appendix to Rule 3745-300-08 of the OAC and effective October 7, 2019, as well as the OEPA's Supplemental Criteria as provided in the Chemical Information Database and Applicable Regulatory Standards (CIDARS) dated October 2019.

The Ohio VAP standards include standards for residential land use, commercial/industrial land use, and construction/excavation worker activities. Direct contact to soil is defined as the ingestion, dermal contact, and outdoor inhalation of the soil's contaminants. Residential land use standards are the most stringent and therefore have been used in Tables E-1, E-2, and E-3 "Summary of Detected Constituents in Soils" contained in Appendix E for comparison purposes in this investigation.

Commercial/Industrial and Construction/Excavation Worker Ohio VAP GDCSS standards may be found on the OEPA website: https://epa.ohio.gov/Portals/30/rules/2019-Final-Filed/3745-300-08%20Appendix%201.pdf.

Please note that for the COC analyzed onsite, OEPA's GDCSS are for single chemicals and typically must be adjusted if undertaking a project under Ohio VAP rules to evaluate the cumulative exposure for multiple chemicals, if present on a property. Although the Site COC are compared to the Ohio VAP GDCSS, not all demonstrations were made pursuant to the Ohio VAP rules, since the scope of this investigation consists of a limited screening level Phase II ESA assessment and not a full VAP compliant analysis.

4.2 SOIL SAMPLE RESULTS

Volatile Organic Compounds (VOC): A review of the soil laboratory analytical data indicates that nearly all of the VOC concentrations were below laboratory reporting limits, with a few isolated concentrations just above reporting limits. All of the maximum detected site soil VOC concentrations are well below OEPA's VAP risk-based GDCSS for residential land use activity. This data is tabulated in Appendix E, Table E-1.

Polynuclear Aromatic Hydrocarbons (PAH): A review of the soil laboratory analytical data indicates that low-level PAH compounds were identified in all of the soil samples taken. TP-4 had the highest concentration of PAH compounds reported. EnviroScience field staff reported observing asphalt-like fill material in this trench as well as a slight odor. All of the maximum detected site soil PAH concentrations are below OEPA's VAP risk-based GDCSS for residential land use activity. This data is tabulated in Appendix E, Table E-2.

Polychlorinated biphenyls (PCB): A review of the soil laboratory analytical data indicates that nearly all PCB concentrations were below laboratory reporting limits except for two low-level detections at TP-8 of 290 ug/kg (parts per billion) and TP-5 at 130 ug/kg. All of the maximum

detected site soil PCB concentrations are below OEPA's VAP risk-based GDCSS for residential land use activity. This data is tabulated in Appendix E, Table E-2.

Target Analyte List Metals (TAL): A review of the soil laboratory analytical data indicates that the majority of TAL concentrations detected in the soil samples were at levels indicative of background concentrations naturally occurring in Ohio soils. Moreover, several TAL concentrations were listed at close to or below reporting limits. Except for arsenic, all of the maximum detected site soil COC concentrations are below OEPA's VAP risk-based GDCSS for residential land use activity. This data is tabulated in Appendix E, Table E-3.

Although the concentrations of arsenic in 8 of the 14 samples taken are above Ohio VAP GDCSS thresholds for residential land use of 14 mg/kg (ppm), they are all well below the GDCSS for commercial/industrial use (100 mg/kg) and are below the commercial land use with high-frequency child exposure GDCSS for arsenic of 46 mg/kg. An example of commercial use with high-frequency child exposure would be a school (refer to OAC 3745-300-01).

The arsenic levels detected onsite are generally within the range of background levels often encountered in Northeastern Ohio, according to a variety of studies and papers generated over the past 25 years on naturally occurring background metals concentrations of soils in Ohio.

4.3 GROUNDWATER SAMPLE RESULTS

Groundwater was not encountered during the investigation. No groundwater samples were collected from any of the test pit trenches.

5.0 CONCLUSIONS AND RECOMMENDATIONS

Conclusions – To preliminarily assess the project area, a total of eight test pit trenches were excavated by the City of Canton service department at locations along the proposed Clark Avenue extension roadway construction limits.

Lab analysis of soil samples taken by EnviroScience field scientists from the test pits indicates low-level detections of various metals, PAHs, and PCBs from the soil samples submitted for analysis. In summary, all the detected COC were below the Ohio VAP GDCSS for residential land use except for arsenic. However, the arsenic concentrations are all well below the GDCSS for commercial/industrial use (100 mg/kg) and are below the commercial land use with high-frequency child exposure GDCSS for arsenic of 46 mg/kg.

Arsenic can be readily found in native soils in Northeast Ohio at concentrations comparable or greater than the Ohio VAP GDCSS low-level residential GDCSS value of 14 mg/Kg. At the detected concentrations of arsenic in the soil samples, the results suggest that arsenic levels may indicate naturally occurring concentrations.

Based on field observations and the data collected, the proposed work zone (construction and excavation limits) of the Clark Avenue extension project does not appear to have been substantially impacted by COC due to former onsite or off-site activities. No obvious signs of environmental contamination were observed during excavation and sampling operations. Various assorted fill consisting of rock, brick, concrete, gravel, asphalt remnants, etc., were observed and would be encountered during construction.

Recommendations – No further environmental assessment is warranted at the Site.

6.0 LIMITATIONS

This report is an instrument of service of EnviroScience. The report was prepared for and is intended for the exclusive use of the City of Canton. The report contents may not be relied upon by any party other than the City of Canton without the express written permission of EnviroScience. The scope of services was not intended to provide the information needed to completely establish the quantity or extent of impacted media present at the Site or determine the cost of remediating the Site. The scope of services EnviroScience implemented was based, in part, on rules and regulations that EnviroScience understood to be current or expected at the time EnviroScience developed its proposal. Changes in regulations, interpretations, or enforcement policies may occur at any time, and such changes could affect the need for and extent of remediation, if required. Any additional information about this Site that becomes available should be provided to EnviroScience for its review so that EnviroScience can modify its findings/conclusions as necessary.

The findings and conclusions presented in this report are based on conditions encountered at the locations sampled on the date of EnviroScience's investigation. They should not be relied upon to precisely represent conditions at any other time. EnviroScience's findings and conclusions included in this report are based on EnviroScience's observations of existing site conditions and the results of a limited program of subsurface exploration, sample screening, and chemical testing. The concentration of contaminants measured may not be representative of conditions between locations sampled. Recognize that conditions may change at any sampled or un-sampled location as a function of time in response to natural conditions, chemical reactions, or other events, including, but not limited to, altering site grades and other redevelopment activities. Conclusions about site conditions under no circumstances comprise a warranty that conditions in all areas within the site are of the same condition as those sampled.

EnviroScience's professional services have been performed using that degree of care and skill ordinarily exercised, under similar conditions, by reputable environmental consultants undertaking similar studies and practicing in this locality. No other warranty, expressed or implied, is intended or made with respect to this report or EnviroScience's services. This assessment was not exhaustive, and users of this report should consider the scope and limitations of, and related to, these services when developing their opinions as to environmental risks associated with the subject Site.

7.0 REFERENCES

Haley and Aldrich. (2020, January). Proposed Clark Avenue Extension Environmental Matters.

Ohio Environmental Protection Agency (OEPA). (2019). Voluntary Action Program risk-based Single Chemical Generic Direct Contact Soil Standards. Appendix to OAC 3745-300-08, effective October 7, 2019.

OEPA. (2019, October). Supplemental Criteria as provided in the Chemical Information Database and Applicable Regulatory Standards (CIDARS).

United States Department of Agriculture, Natural Resources Conservation Service (USDA, NRCS). (1971, October). Soil Survey of Stark County. Retrieved from https://www.nrcs.usda.gov/Internet/FSE_MANUSCRIPTS/ohio/OH151/0/stark.pdf

Appendix A

Figures

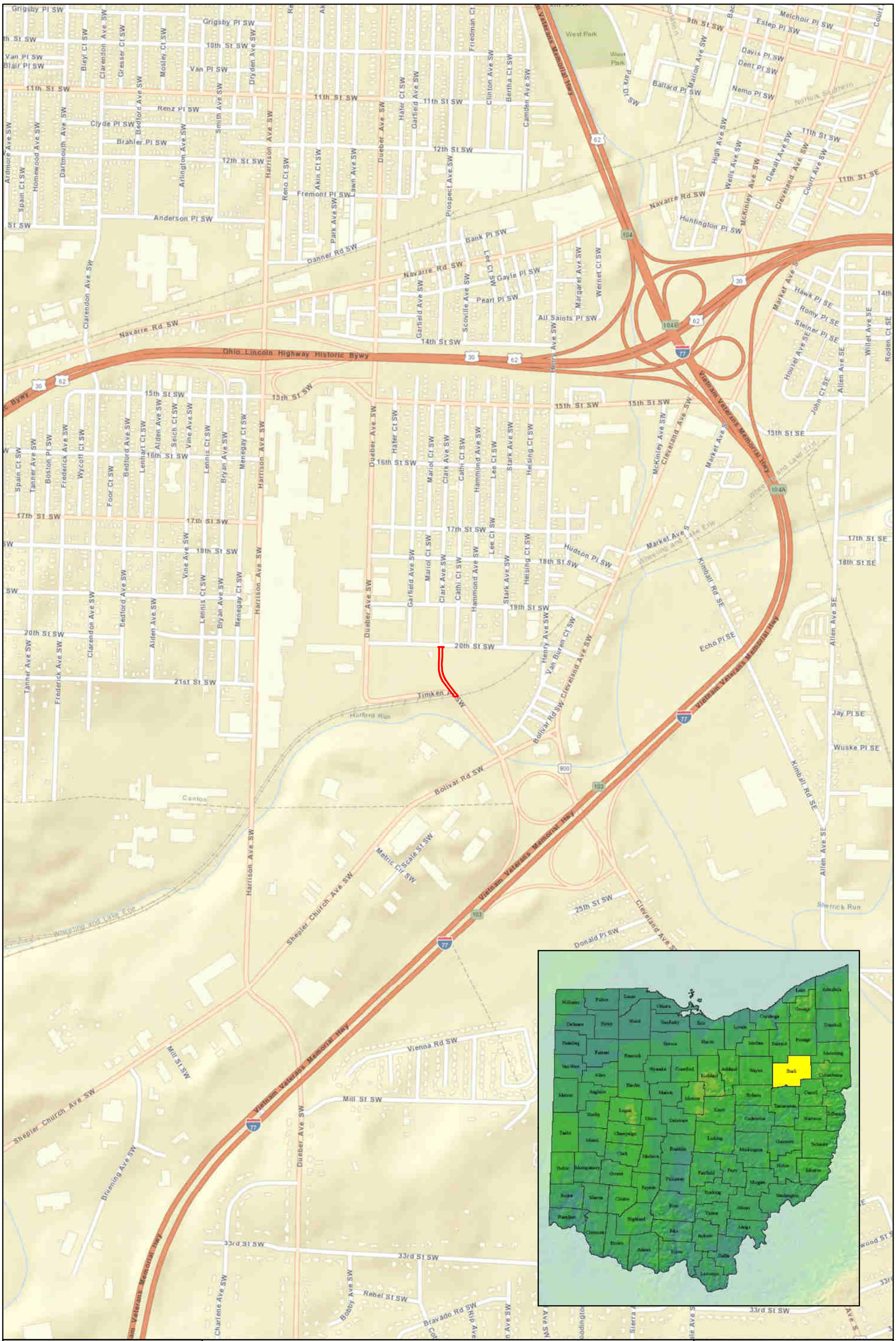

Figure 1. Location of Site on Highway Map of Stark County, Ohio. Clark Avenue Extension.

Project Area

0 500 1,000 2,000 Feet

0 150 300 600 Meters

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Date: 11/16/2020

Basemap courtesy of Esri.

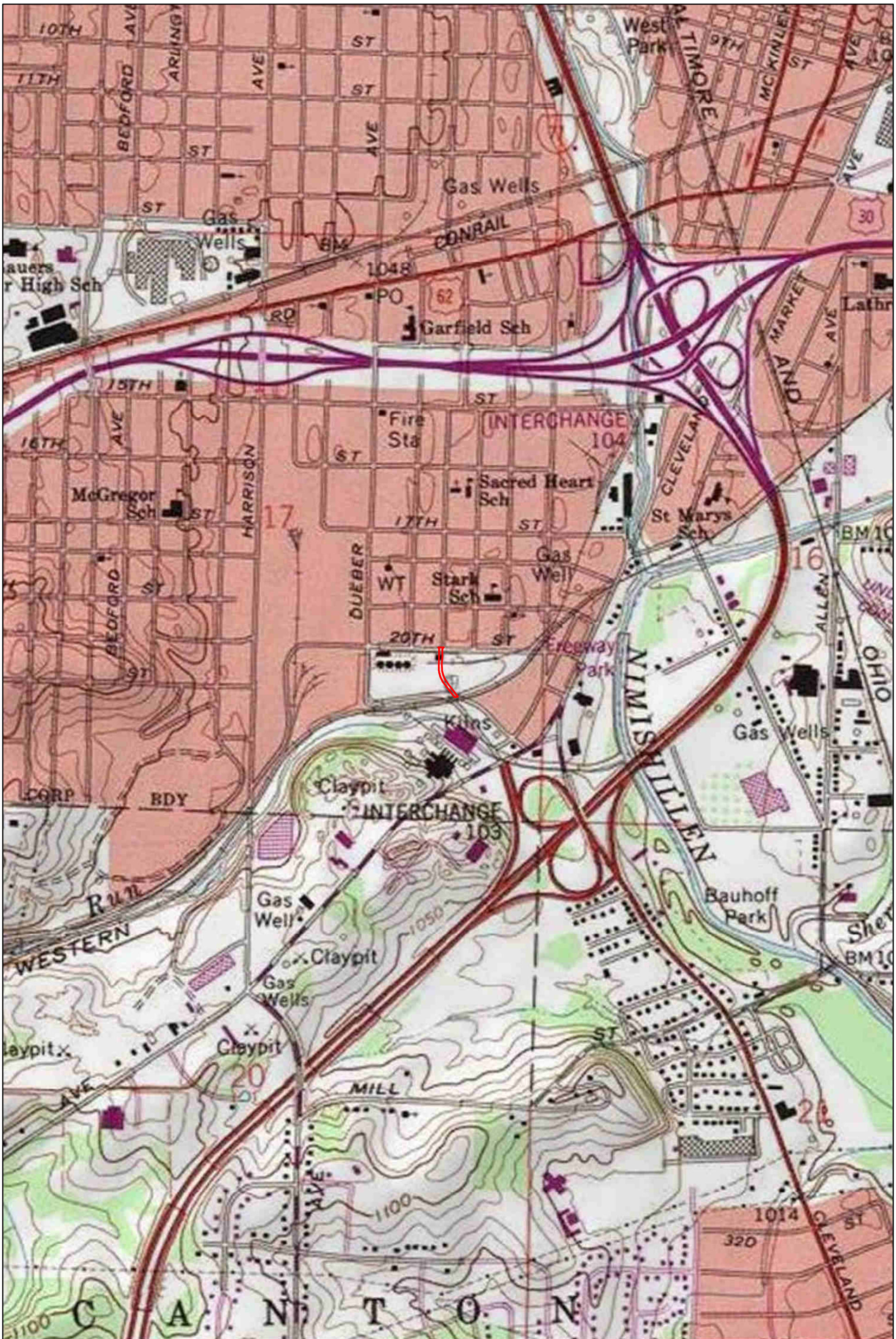

Figure 2. USGS 7.5-minute Topographic Map of Canton West Quadrangle. Clark Avenue Extension.

Project Area

0 500 1,000 2,000 Feet

0 150 300 600 Meters

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Path: C:\Users\Anna Giordano\Desktop\GIS_CityofCanton\Map3_Topo.mxd

Date: 11/16/2020

Basemap courtesy of National Geographic Society (2013).

Figure 3.
Soil Map of Site in
Stark County, Ohio.
Clark Avenue Extension.

Project Area

0 500 1,000 2,000 Feet

0 150 300 600 Meters

EnviroScience
Excellence In Any Environment

Path: C:\Users\Anna Giordano\Desktop\GIS_CityofCanton\Map4_Soil.mxd

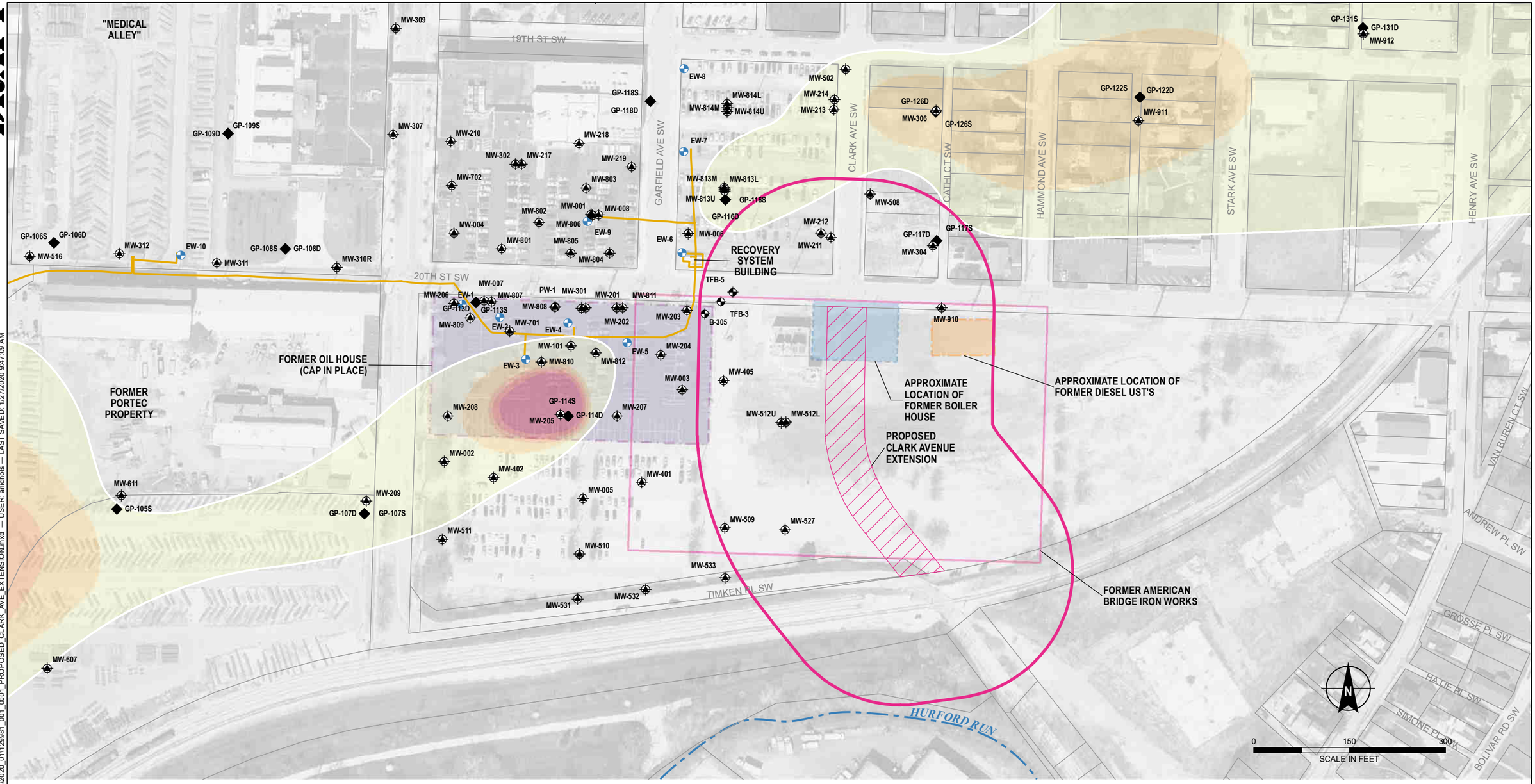
Date: 11/16/2020

Basemap courtesy of Esri. Soil data courtesy of SSURGO.

Appendix B

Haley and Aldrich - Mapping and Analytical Data

DRAFT



LEGEND

- PROPOSED ROAD EXTENSION
- 200-FT BUFFER AROUND PROPOSED ROAD EXTENSION
- APPROXIMATE LOCATION OF FORMER DIESEL UST'S
- APPROXIMATE LOCATION OF FORMER BOILER HOUSE
- FORMER AMERICAN BRIDGE IRON WORKS
- FORMER OIL HOUSE
- RECOVERY SYSTEM BUILDING
- PARCEL
- RECOVERY SYSTEM PIPING
- EXTRACTION WELL
- MONITORING WELL
- SOIL BORING
- SOIL GAS SAMPLE LOCATION

INFERRED TCE PLUME CONCENTRATION IN µg/L

- 5 - 25
- 25 - 125
- 125 - 225
- 225 - 325
- > 325

NOTES

1. LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. TCE = TRICHLOROETHENE
3. µg/L = MICROGRAMS PER LITER
4. APPROXIMATE EXTENT OF PROPOSED CLARK AVENUE EXTENSION FROM PLAN TITLED, "ROAD DEDICATION, ROAD VACATIONS, AND REPLAT OF OUTLOT #953", PREPARED BY R.E. WARNER AND ASSOCIATES, DATED 21 SEPTEMBER 2018
5. ADDITIONAL SOIL BORING LOCATIONS OUTSIDE OF THE PROJECT AREA (200-FOOT RADIUS) HAVE BEEN INTENTIONALLY OMITTED.
6. AERIAL IMAGERY SOURCE: USGS 2012

HALEY ALDRICH

TIMKENSTEEL CORPORATION
HARRISON STEEL PLANT
CANTON, OHIO

PROPOSED CLARK AVENUE EXTENSION
ENVIRONMENTAL MATTERS

JANUARY 2020

FIGURE 1

GIS FILE PATH: G:\42916_TimkenSteel\Global\GIS\Maps\2020_01\129981_001_0001_PROPOSED_CLARK_AVE_EXTENSION.mxd — USER: anichols — LAST SAVED: 1/27/2020 9:47:09 AM

SOIL BORING AND WELL INSTALLATION LOGS
(Within 200-foot radius of road extension)

GZA GeoEnvironmental, Inc. Engineers and Scientists 4041 Batton Rd., Ste. 200, N. Canton, OH 44720	PROJECT Timken Oil House Canton, Ohio	REPORT OF BORING No. MW-211 SHEET 1 OF 1 FILE No. 67021.1 CHKD. BY GRM

BORING Co. Northcoast Drilling
FOREMAN Tracy Teter
GZA ENGINEER J. Schuster

BORING LOCATION See Site Plan
GROUND SURFACE ELEVATION - DATUM -
DATE START 12-29-92 DATE END 12-29-92

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 130 lb. HAMMER FALLING 30 in.

METHOD: 4-1/4" I.D./ " O.D. HOLLOW-STEM AUGER

RIG TYPE: CME 75

GROUNDWATER READINGS

DATE	TIME	DEPTH	CASING	STABILIZATION TIME
12/29/92	-	14	Out	0 hours

DEPTH	NO.	SAMPLE TYPE	PEN./REC.	DEPTH (Ft.)	BLOWS 6"	FIELD TESTING	SAMPLE DESCRIPTION / UNIFIED CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	REMKS
							No samples collected in first 5'.	SAND and GRAVEL	0.5' ROAD BOX 1.0' FILTER SAND GRANULAR BENTONITE SEAL	1
5	S1	SS		5 - 7		4 ppm	Brown, medium to fine SAND, little Gravel, Dry (SP).	5' SAND	2" I.D. PVC RISER	
10	S2	SS		10-12		4 ppm	Brown-gray SAND and Gravel, Dry (SW).	9'	10.0'	
	S3	SS		12-14		18 ppm	Brown, fine to coarse SAND, some Gravel, trace Silt, Wet, Strong Petroleum Odor (SM).		12.5' FILTER SAND	
15	S4	SS		15-17		35 ppm	Black, stained, oily SAND and Gravel, Wet, Very Strong Petroleum Odor (SW).	SAND and GRAVEL	2" I.D. PVC SCREEN (0.01" SLOT)	
20									22'	
							Bottom of Boring at 22 Feet	22'		
25										
30										
35										

REMARKS:

1. All field screening of samples for organic vapors was performed with an HNU Photoionization Detector equipped with a 10.2 eV lamp. All readings are in parts per million (ppm). Background measured to be about 1.0 ppm.

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

GZA

FILE:670211MW.11

GZA GeoEnvironmental, Inc. Engineers and Scientists 4041 Batton Rd., Ste. 200, N. Canton, OH 44720	PROJECT Timken Oil House Canton, Ohio	REPORT OF BORING No. MW-212 SHEET 1 OF 2 FILE No. 67021.1 CHKD. BY GRM

BORING Co. Northcoast Drilling
FOREMAN Tracy Teter
GZA ENGINEER J. Schuster

BORING LOCATION See Site Plan
GROUND SURFACE ELEVATION - DATUM -
DATE START 12-29-92 DATE END 1-7-93

SAMPLER: UNLESS OTHERWISE NOTED, SAMPLER CONSISTS OF A 2" SPLIT SPOON DRIVEN USING A 130 lb. HAMMER FALLING 30 in.
METHOD: 4-1/4" I.D./ " O.D. HOLLOW-STEM AUGER
RIG TYPE: CME 75

GROUNDWATER READINGS

DATE	TIME	DEPTH	CASING	STABILIZATION TIME
1-7-93	-	14.5	Out	0 hours

DEPTH	NO.	SAMPLE TYPE	PEN./ REC.	DEPTH (Ft.)	BLOWS 6"	FIELD TESTING	SAMPLE DESCRIPTION UNIFIED CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	REMKS
									0.5' ROAD BOX 1.0' FILTER SAND	1
5							No sample collected between ground surface and 10'.	SAND and GRAVEL		
10	S1	SS		10-12		3 ppm	Brown, fine to coarse SAND, some Gravel, Moist (SW).		CEMENT BENTONITE GROUT	
	S2	SS		13-15		34 ppm	Gray-black, stained SAND and Gravel, trace Silt, Wet, Strong Petroleum Odor (SM).			
15	S3	SS		15-17		33 ppm	Gray-black SAND and Gravel, little Silt, Wet (SM).	15' Silty SAND and GRAVEL		
	S4	SS		17-19		-	No recovery.			
20	S5	SS		20-22		10 ppm	Tan-gray, medium to fine SAND (SP).	20' SAND 22'		
25	S6	SS		25-27		-	No recovery.		2" I.D. PVC RISER	
							Heaving SAND and Gravel.			
30	S7	SS		30-32		-	No recovery.	SAND and GRAVEL		
							Heaving SAND and Gravel.		34.0'	
35	S8	SS		35-37		-	No recovery.		36.0' FILTER SAND 2" I.D. PVC SCH. 40 SCREEN	
40										

REMARKS:
1. All field screening of samples for organic vapors was performed with an HNU Photoionization Detector equipped with a 10.2 eV lamp. All readings are in parts per million (ppm). Background measured to be about 0.5 ppm.
2. NX rock core collected from 46.5 to 51.5 feet below ground surface.

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED. FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

GZA

FILE:67021HW1.12

GZA GeoEnvironmental, Inc.
Engineers and Scientists
4041 Batton Rd., Ste. 200, N. Canton, OH 44720

PROJECT
Timken Oil House
Canton, Ohio

REPORT OF BORING No. MW-212
SHEET 2 OF 2
FILE No. 67021.1
CHKD. BY GRM

DEPTH	NO.	SAMPLE TYPE	PEN. REC.	DEPTH (Ft.)	BLOWS 6"	FIELD TESTING	SAMPLE DESCRIPTION / UNIFIED CLASSIFICATION	STRATUM DESCRIPTION	EQUIPMENT INSTALLED	REMKS
	S9	SS		40-42		7 ppm	Gray SAND, some Silt, little Gravel, Wet (SM).	Silty SAND	FILTER SAND	
								43'	2" I.D. PVC SCH. 40 SCREEN	
45	S10	SS		45-46		3 ppm	Gray SILT & Clay.	SILT and CLAY	45.0'	
	S11	SS		46-46.5		2 ppm	Fissile, black SHALE			2
	S12	NX		46.5-51.5		-		SHALE 47'	BENTONITE BACKFILL	
50							Gray, soft, fissile micaceous, highly fractured, highly weathered, Siltstone.	48' SILTSTONE		
							Bottom of Boring at 51.5 Feet	51.5'		
55										
60										
65										
70										
75										
80										

REMARKS:

NOTES: 1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED. FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

GZA

File:67021MW2.12

Sanborn, Head & Associates, Inc.

Log of Monitoring Well MW-304

PROJECT NO.: *1009*

PROJECT: *Timken Oil House*

DATE STARTED: *9/27/93* DATE FINISHED: *9/28/93*

LOCATION: *Canton, Ohio*

SURFACE ELEVATION: *1030.87'/PVC 1030.37'/MSL*

DRILLING METHOD: *CME 75 Drill Rig w/4-1/4" ID HSA*

DRILLING COMPANY: *Northcoast Drilling Services, Inc.*

FOREMAN: *Tracy Teter*

LOGGED BY: *Dennis Porter* CHECKED BY: *CAC/GRM*

GROUNDWATER READINGS

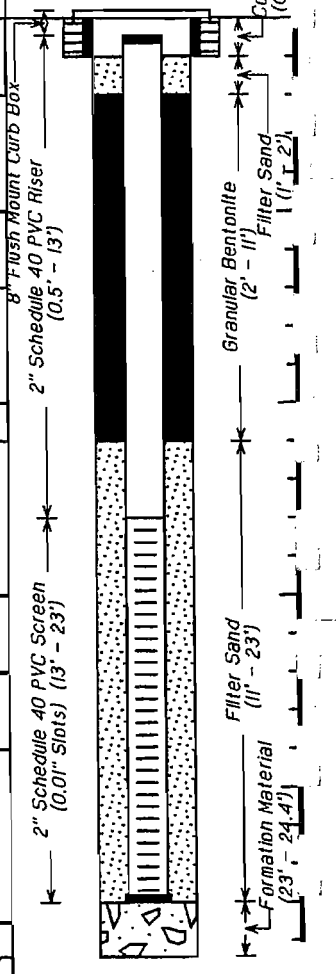
DATE	TIME	DEPTH	CASING	STAB. TIME
9/28/93	0745	16.8'	23.5'	18 hours
3/15/94	----	15.98'	Well Inst.	6 months

DEPTH feet	SAMPLE NO. Depth (ft.)	BLOWS/6"	PEN/REC (in.)	PID (ppm) VALUES	PID (ppm) PROFILE 0 – 200	GRAPHIC LOG	STRATUM DESCRIPTION	GEOLOGIC DESCRIPTION
	S-1 0-2'	10-7 6-6	24/14	ND			FILL	Medium dense, grey, fine to coarse SAND, some Silt, little Gravel, trace Brick fragments. Change at 0.5' to brown SILT, little fine Sand, trace Gravel. Dry. FILL.
5	S-2 5-7'	5-6 8-18	24/24	ND			SAND	Medium dense, mottled, brown and dark grey, fine to coarse SAND, some Silt. Change at 5.5' to fine to coarse SAND, some Gravel, some Silt. Dry.
10	S-3 10-11'	40-50/6"	12/12	ND			SAND AND GRAVEL	Very dense, red-brown, fine SAND, little Silt. Change at 10.3' to fine to coarse SAND and Gravel, little Silt, little fractured rock. Dry.
15	S-4 15-17'	31-29 28-28	24/20	ND				Very dense, brown, fine to coarse SAND and Gravel, little Silt, little fractured rock. Tip of spoon Wet.
	S-5 17-19'	7-10 17-15	24/6	ND				Medium dense, brown, fine to coarse SAND and Gravel, little Silt. Wet.
20								
	S-6 23.5-24.4'	36-50/5"	11/11	ND			SHALE	Very dense, dark grey, SILT & CLAY. Change at 23.2' to grey, very weathered Shale. Wet.
25								Bottom of boring at 24.4 ft.
30								
35								

NOTES:

1) Soil samples were screened for volatile organic compounds (VOCs) using a Thermo Environmental Instruments, Inc. Model 580B Organic Vapor Meter (OVM) with a 10.0 eV lamp calibrated to an isobutylene standard. Typical detection limit is 1 ppm. "ND" is not detected.

WELL DIAGRAM



Sanborn, Head & Associates, Inc.

Log of Monitoring Well MW-405

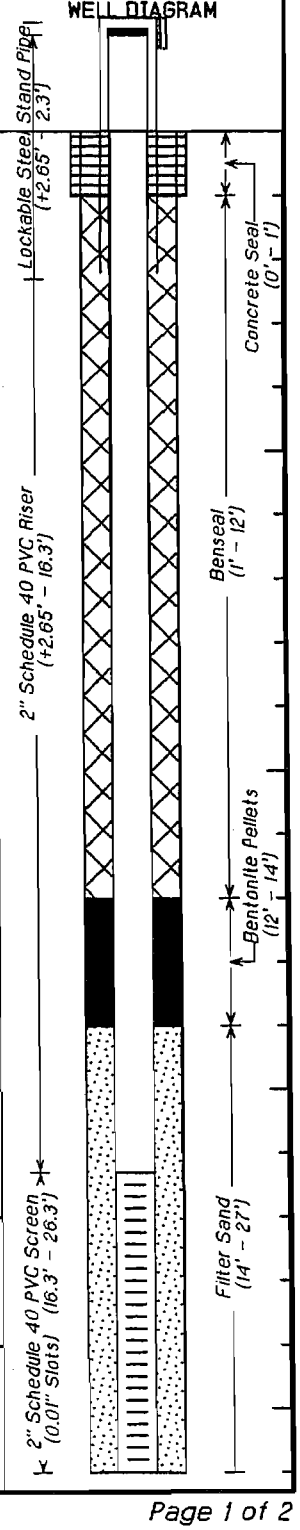
PROJECT NO.: *1009*	
PROJECT: *Timken Oil House*	DATE STARTED: *2/15/94* DATE FINISHED: *2/15/94*
LOCATION: *Canton, Ohio*	SURFACE ELEVATION: *1033.13'*
DRILLING METHOD: *CME 75 Drill Rig w/4-1/4" ID HSA*	
DRILLING COMPANY: *Northcoast Drilling Services, Inc.*	
FOREMAN: *Tracy Teter*	
LOGGED BY: *Paul Gallagher*	CHECKED BY: *G. R. Morley*

GROUNDWATER READINGS

DATE	TIME	DEPTH	CASING	STAB. TIME
2/15/94	1515	18.55'	Well Inst.	10 mins.

DEPTH feet	SAMPLE NO. Depth (ft.)	BLOWS/6"	PEN/REC (in.)	PID (ppm) VALUES	PROFILE 0 – 200	STRATUM DESCRIPTION	GEOLOGIC DESCRIPTION
						COAL	Coal to 1.0'
	S-1 1-3'	3-4 5-6	24/13	4		SAND	Loose, dark brown, fine to medium SAND and Silt, little fine Gravel (Slag). Dry.
	S-2 3-5'	5-5 5-6	24/0	--		SAND	No recovery.
5	S-3 5-7'	3-4 3-4	24/13	ND		SAND	Loose, brown, fine to medium SAND, trace coarse Gravel. Dry.
	S-4 7-9'	8-4 5-5	24/4	ND		SAND	Same as S-3.
	S-5 9-11'	3-4 3-8	24/14	3		SAND	Loose, brown, fine to coarse SAND and fine Gravel. Moist.
10	S-6 11-13'	17-14 16-11	24/14	10		SAND	Medium dense, dark brown, fine to coarse SAND, some fine Gravel, stained. Moist. Change at 11.5' to light brown, fine to coarse SAND, some fine to coarse Gravel. Dry.
	S-7 13-15'	10-14 10-10	24/17	19		SAND	Medium dense, brown, fine to coarse SAND, some fine to coarse Gravel, little Silt. Dry.
15	S-8 15-17'	9-9 9-9	24/20	ND		SAND	Medium dense, brown, fine to medium SAND, some Silt, trace fine Gravel. Dry.
	S-9 17-19'	9-9 10-13	24/17	10		SAND	Medium dense, light to dark grey, fine to medium SAND, trace coarse Sand. Dry. Wet at 18'.
20	S-10 19-21'	2-7 9-10	24/13	77		SAND / GRAVEL	Medium dense, light to dark grey, fine to coarse SAND. Petroleum odor. Wet. Change at 19.5' to fine GRAVEL, some medium to coarse Sand. Petroleum odor. Wet.

WELL DIAGRAM



Sanborn, Head & Associates, Inc.

Log of Monitoring Well MW-405

PROJECT NO.: *1009*

PROJECT: *Timken Oil House*

DATE STARTED: *2/15/94* DATE FINISHED: *2/15/94*

DEPTH feet	SAMPLE NO. Depth (ft.)	BLOWS/6"	PEN/REC (in.)	PID (ppm) VALUES	PID (ppm) PROFILE 0 200	GRAPHIC LOG	STRATUM DESCRIPTION	GEOLOGIC DESCRIPTION
	S-11 21-23'	6-6 7-7	24/13	73			SAND	Medium dense, light to dark grey, fine to medium SAND. Change at 22' to dark grey, medium to coarse SAND.
	S-12 23-25'	5-8 8-6	24/8	34			GRAVEL & SAND	Change at 23' to light to dark grey GRAVEL and Sand. Petroleum odor. Wet. Medium dense, light to dark grey GRAVEL and fine to coarse Sand. Petroleum odor. Wet.
	S-13 25-27'	8-8 7-4	24/9	30				Same as S-12.
26								
								Bottom of boring at 27 ft.
31								
36								
41								

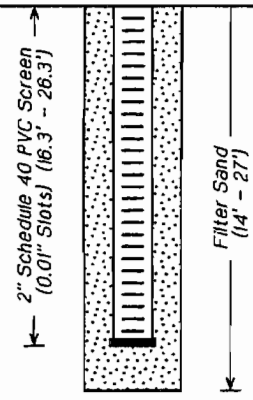
NOTES:

1) Soil samples were screened for volatile organic compounds (VOCs) using a Thermo Environmental Instruments, Inc. Model 580B Organic Vapor Meter (OVM) with a 10.0 eV lamp calibrated to an isobutylene standard. Typical detection limit is 1 ppm. "ND" is not detected.

2) Samples S-7 & S-8 were submitted to laboratory for analysis.

3) Soil cuttings were placed in drums and sealed.

WELL DIAGRAM



Sanborn, Head & Associates, Inc.

Log of Monitoring Well MW-508

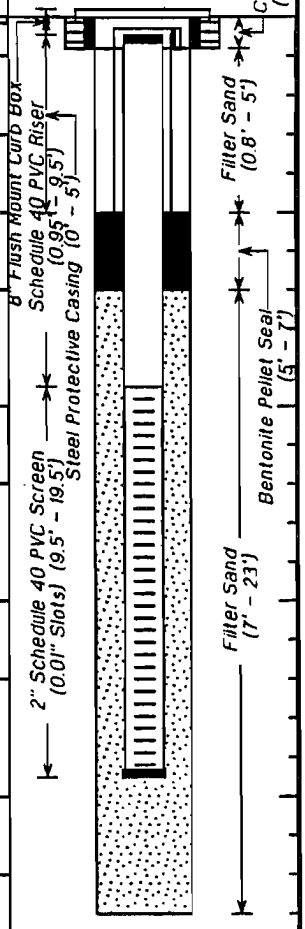
PROJECT NO.: *1009*	
PROJECT: *Timken Oil House*	DATE STARTED: *4/21/94* DATE FINISHED: *4/21/94*
LOCATION: *Canton, Ohio*	SURFACE ELEVATION: *1029.59'*
DRILLING METHOD: *CME 55 Drill Rig w/4-1/4" ID HSA*	
DRILLING COMPANY: *Professional Service Industries, Inc.*	
FOREMAN: *Jon Ellison*	
LOGGED BY: *Paul Gallagher*	CHECKED BY: *G. R. Morley*

GROUNDWATER READINGS

DATE	TIME	DEPTH	CASING	STAB. TIME
4/21/94	1445	11.9'	23'	5 mins.

DEPTH feet	SAMPLE NO. Depth (ft.)	BLOWS/6"	PEN/REC (in.)	PID (ppm) VALUES	PID (ppm) PROFILE 0 – 500	GRAPHIC LOG	STRATUM DESCRIPTION	GEOLOGIC DESCRIPTION
								Gravel to 0.1'
	S-1 1-3'	5-5 6-6	24/13	ND			SAND	Medium dense, brown, fine to coarse SAND, trace fine Gravel, trace Silt. Dry.
5	S-2 5-7'	4-3 4-8	24/14	2				Loose, brown, fine to medium SAND, trace coarse SAND, trace fine Gravel, trace Silt. Dry. Wet at bottom of spoon.
10	S-3 10-12'	18-32 28-22	24/12	3				Very dense, brown, fine to coarse SAND, little Silt, trace fine to coarse Gravel. Dry.
15	S-4 15-17'	19-27 30-21	24/6	86				Very dense, brown, fine to coarse SAND, trace Silt. Wet. Bottom 3" stained black. Petroleum odor.
20	S-5 20-22'	10-8 10-14	24/7	43				Medium dense, grey to brown, fine to medium SAND, little coarse Gravel. Wet. Petroleum odor.
								Bottom of boring at 22 ft.
25								
30								
35								

WELL DIAGRAM



NOTES:

1) Soil samples were screened for volatile organic compounds (VOCs) using a Thermo Environmental Instruments, Inc. Model 580B Organic Vapor Meter (OVM) with a 10.0 eV lamp calibrated to an isobutylene standard. Typical detection limit is 1 ppm. "ND" is not detected.

2) Auger cuttings were drummed.

Sanborn, Head & Associates, Inc.

Log of Monitoring Well MW-509

PROJECT NO.: *1009*

PROJECT: *Timken Oil House*

DATE STARTED: *4/25/94* DATE FINISHED: *4/25/94*

LOCATION: *Canton, Ohio*

SURFACE ELEVATION: *1034.54'*

DRILLING METHOD: *CME 55 Drill Rig w/4-1/4" ID HSA*

DRILLING COMPANY: *Professional Service Industries*

FOREMAN: *Jon Ellison*

LOGGED BY: *Paul Gallagher* CHECKED BY: *G. R. Morley*

GROUNDWATER READINGS

DATE	TIME	DEPTH	CASING	STAB. TIME
4/25/94	1249	13.0'	14'	10 mins

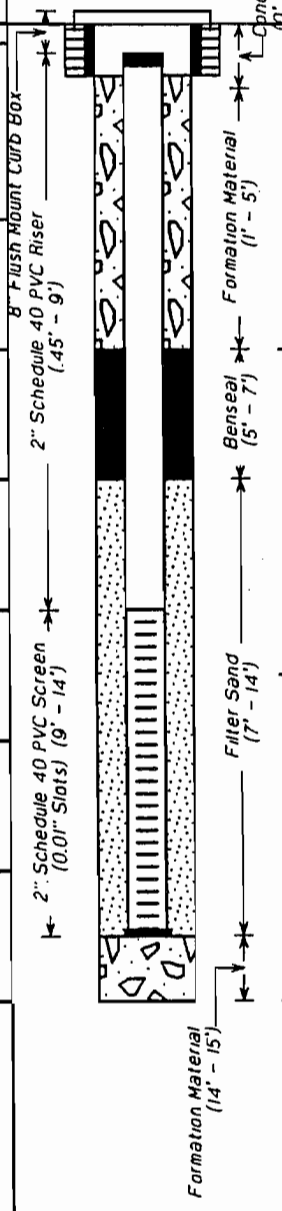
DEPTH feet	SAMPLE NO. Depth (ft.)	BLOWS/6"	PEN/REC (in.)	PID (ppm) VALUES	PID (ppm) PROFILE 0 – 200	GRAPHIC LOG	STRATUM DESCRIPTION	GEOLOGIC DESCRIPTION
							CONCRETE	Concrete to 0.3'
	S-1 1-3'	26-30 11-8	24/16	4			SAND	Medium dense, grey, fine to coarse SAND, trace red brick. Dry.
							SILT	Change at 2' to brown and black stained, SILT, trace fine to medium Sand. Dry.
	S-2 3-5'	4-4 5-4	24/21	1				Stiff, grey with trace black inclusions, SILT. Dry.
							SILTY SAND	Change at 4' to brown, fine to medium SAND, some Silt. Dry.
5	S-3 5-7'	3-6 10-8	24/14	ND			SILT	Very stiff, brown, SILT, little fine Sand. Dry.
							SILTY SAND	Change at 6' to brown fine to medium SAND, some Silt. Dry.
	S-4 7-9'	4-4 3-4	24/14	ND			SAND	Loose, brown, fine to coarse SAND, trace Silt. Dry.
	S-5 9-11'	3-6 7-7	24/12	ND			SAND AND GRAVEL	Medium dense, brown, fine to coarse SAND, some fine to coarse Gravel, trace Silt. Moist.
10	S-6 11-13'	3-3 3-2	24/10	63			SAND	Loose, fine to coarse SAND, little fine Gravel. Wet at 12'. Petroleum odor.
	S-7 13-15'	2-4 9-17	24/12	122				Loose, fine to coarse SAND, little fine Gravel. Wet.
							SHALE	Change at 14' to grey, weathered SHALE. Dry.
15								Bottom of boring at 15 ft.
20								

NOTES:

1) Soil samples were screened for volatile organic compounds (VOCs) using a Thermo Environmental Instruments, Inc. Model 580B Organic Vapor Meter (OVM) with a 10.0 eV lamp calibrated to an isobutylene standard. Typical detection limit is 1 ppm. "ND" is not detected.

2) Soil samples S-5 and S-6 were submitted for chemical analyses.

WELL DIAGRAM



Sanborn, Head & Associates, Inc.

Log of Monitoring Well MW-512L

PROJECT NO.: *1009*

PROJECT: *Timken Oil House*

DATE STARTED: *4/27/94* DATE FINISHED: *4/27/94*

LOCATION: *Canton, Ohio*

SURFACE ELEVATION: *1035.91'*

DRILLING METHOD: *CME 55 Drill Rig w/4-1/4" ID HSA*

DRILLING COMPANY: *Professional Service Industries*

FOREMAN: *Jon Ellison*

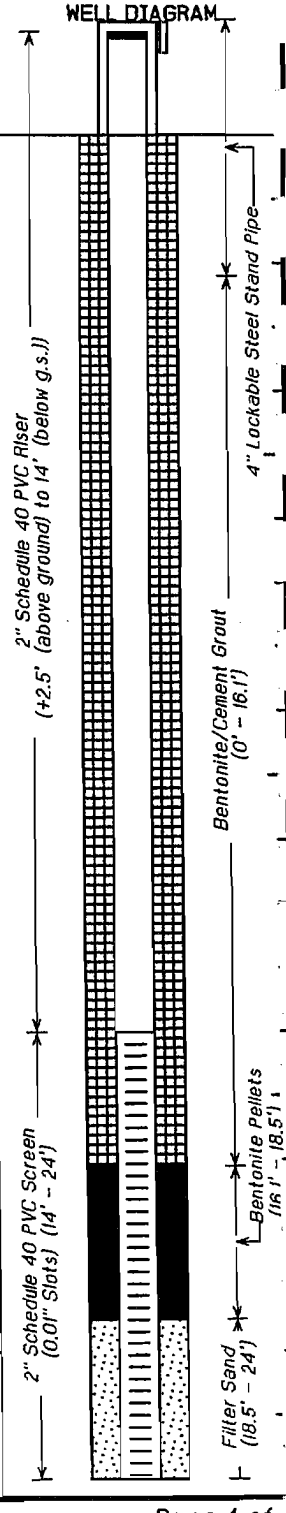
LOGGED BY: *Paul Gallagher* CHECKED BY: *G. R. Morley*

GROUNDWATER READINGS

DATE	TIME	DEPTH	CASING	STAB. TIME
4/27/94	0945	22.5'	24'	10 mins

DEPTH feet	SAMPLE NO. Depth (ft.)	BLOWS/6"	PEN/REC (in.)	PID (ppm) VALUES	PID (ppm) PROFILE 0 – 200	GRAPHIC LOG	STRATUM DESCRIPTION	GEOLOGIC DESCRIPTION
	S-1 2-2.4'	64/4"	4/4	ND			COAL	Coal to 1.5'
	S-2 3-5'	15-55 12-8	24/12	ND			FILL	Very dense, dark brown, fine to coarse SAND, some fine to coarse Gravel, trace Silt. Dry. Lense of black COAL and fine to coarse Gravel (Shale). Very dense, dark brown to black, coarse GRAVEL (Slag) and fine to coarse Sand, little Silt. Dry. Change at 4' to white-grey, fine to coarse SAND (Slag), trace Silt. Dry.
5	S-3 5-7'	2-3 4-5	24/20	1			SILT	Medium stiff, brown SILT, trace fine to medium Sand. Dry.
	S-4 7-9'	3-5 4-7	24/19	3			STRATIFIED SAND & SILTY SAND	Loose, brown, fine to coarse SAND, some Silt. Dry.
	S-5 9-11'	5-4 4-3	24/24	1				Loose, brown, fine to coarse SAND, some Silt. Dry. Change at 9.5' to loose, brown, fine to medium SAND, trace Silt. Dry.
10	S-6 11-13'	1-1 2-5	24/13	1				Very loose, brown, fine to medium SAND, trace Silt. Dry. Change at 11.2' to brown, fine to medium SAND, some Silt, trace fine Gravel. Moist.
	S-7 13-15'	4-3 3-3	24/9	2			SAND AND GRAVEL	Loose, brown, fine to coarse SAND and fine gravel, little Silt. Wet.
15	S-8 15-17'	3-5 9-10	24/7	2				Medium dense, brown with dark brown lense, fine to coarse SAND and fine to coarse Gravel, trace Silt. Wet.
	S-9A 17-18'	7-11 14-13	24/14	2			SILT	S-9A: Very stiff, brown-grey SILT, trace fine to medium Sand. Dry.
	S-9B 18-19'			4			SAND	S-9B: Medium dense, brown, fine to coarse SAND, trace Silt. Dry.
20	S-10 19-21'	3-7 9-10	24/14	2				Medium dense, light brown, fine to coarse SAND. Dry.

WELL DIAGRAM



Sanborn, Head & Associates, Inc.

Log of Monitoring Well MW-512L

PROJECT NO.: *1009*

PROJECT: *Timken Oil House*

DATE STARTED: *4/27/94* DATE FINISHED: *4/27/94*

DEPTH feet	SAMPLE NO. Depth (ft.)	BLOWS/6"	PEN/REC (in.)	PID (ppm) VALUES	PID (ppm) PROFILE 0 200	GRAPHIC LOG	STRATUM DESCRIPTION	GEOLOGIC DESCRIPTION
	S-11 21-23'	5-6 7-7	24/15	1			SAND	Medium dense, grey to brown, fine to coarse SAND, trace Silt. Wet.
	S-12A 23-24'	17-12	24/1	1				S-12A: Medium dense, grey to brown, fine to coarse SAND, trace Silt. Wet.
							SILT & CLAY	Change at 23.5' to grey, mottled SILT & CLAY. Moist.
	S-12B 24-25'	15-23					COAL	S-12B: Black SHALE (Coal). Wet.
							SHALE	Change at 24.3' to grey, soft, weathered SHALE. Dry.
26								Bottom of boring at 25 ft.
31								
36								
41								

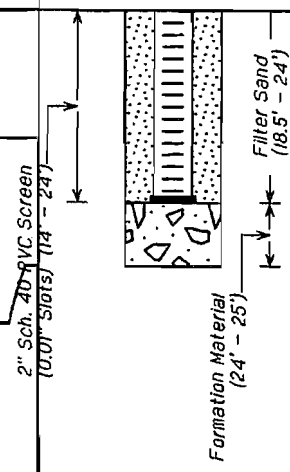
NOTES:

1) Soil samples were screened for volatile organic compounds (VOCs) using a Thermo Environmental Instruments, Inc. Model 580B Organic Vapor Meter (OVM) with a 10.0 eV lamp calibrated to an isobutylene standard. Typical detection limit is 1 ppm. "ND" is not detected.

2) Zone of perched water encountered from 13-17'.

3) Soil samples S-4 and S-9B submitted to laboratory for analysis.

WELL DIAGRAM



Sanborn, Head & Associates, Inc.

Log of Monitoring Well MW-512U

PROJECT NO.: *1009*

PROJECT: *Timken Oil House*

DATE STARTED: *4/27/94* DATE FINISHED: *4/27/94*

LOCATION: *Canton, OH*

SURFACE ELEVATION: *1035.70'*

DRILLING METHOD: *CME 55 Drill Rig w/4-1/4" ID HSA*

DRILLING COMPANY: *Professional Service Industries, Inc.*

FOREMAN: *Jon Ellison*

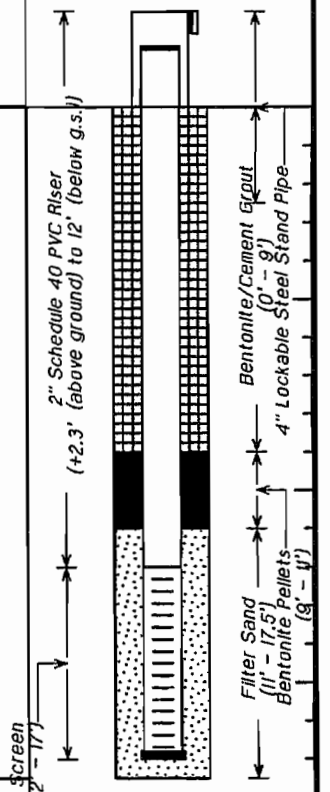
LOGGED BY: *Paul Gallagher* CHECKED BY: *G. R. Morley*

GROUNDWATER READINGS

DATE	TIME	DEPTH	CASING	STAB. TIME
4/27/94	1730	Dry	Well Inst.	15 mins
4/28/94	0800	16.6'	Well Inst.	14 hours
5/04/94	1105	Dry	Well Inst.	7 days

DEPTH feet	SAMPLE NO. Depth (ft.)	BLOWS/6"	PEN/REC (in.)	PID (ppm) VALUES	PID (ppm) PROFILE 0 200	GRAPHIC LOG	STRATUM DESCRIPTION	GEOLOGIC DESCRIPTION
5								
10								NO SOIL SAMPLES COLLECTED. SEE GEOLOGIC DESCRIPTION FOR MW-512L WHICH IS LOCATED 10' EAST OF MW-512U.
15								
								Bottom of boring at 17.5 ft.
20								
25								
30								
35								

WELL DIAGRAM



Sanborn, Head & Associates, Inc.

Log of Monitoring Well MW-527

PROJECT NO.: *1009*

PROJECT: *Timken Oil House*

DATE STARTED: *5/23/94* DATE FINISHED: *5/23/94*

LOCATION: *Canton, Ohio*

SURFACE ELEVATION: *1034.52'*

DRILLING METHOD: *CME 75 w/4-1/4" ID HSA*

DRILLING COMPANY: *Professional Service Industries, Inc.*

FOREMAN: *Bill Epling*

LOGGED BY: *Paul Gallagher* CHECKED BY: *G. R. Morley*

GROUNDWATER READINGS

DATE	TIME	DEPTH	CASING	STAB. TIME
5/23/94	1510	21.2'	23.5'	5 mins.
5/23/94	1705	19.67'	Well Inst.	30 mins.

DEPTH feet	SAMPLE NO. Depth (ft.)	BLOWS/6"	PEN/REC (in.)	PID (ppm) VALUES	PROFILE 0 – 200	GRAPHIC LOG	STRATUM DESCRIPTION	GEOLOGIC DESCRIPTION
							STONE	Asphalt to 0.1' Stone to 2.1'
5	S-1 5-7'	2-3 3-5	24/14	ND			CLAYEY SILT	Medium stiff, brown Clayey SILT, some fine Sand. Dry.
10	S-2 10-12'	4-7 8-6	24/12	ND			SAND	Medium dense, light brown, fine to medium SAND, trace Silt. Dry.
15	S-3 15-17'	7-7 7-10	24/10	ND			SILTY SAND	Medium dense, dark brown and black, fine to coarse SAND, some Silt, trace fine Gravel. Moist.
20	S-4 19.5-21.5'	8-7 20-21	24/13	11				[Drilling behavior changed at 19'. Augers had difficulty advancing.] Medium dense, brown with grey stains, fine to coarse SAND, some Silt, trace fine Gravel. Moist. Strong petroleum odor.
25	S-5 23.5-23.9'	50/4"	4/4	59			SILT & CLAY	Hard, black stained, SILT & CLAY, some fine to medium Sand. Wet. Strong odor. Bottom of boring at 23.9 ft.
30								
35								

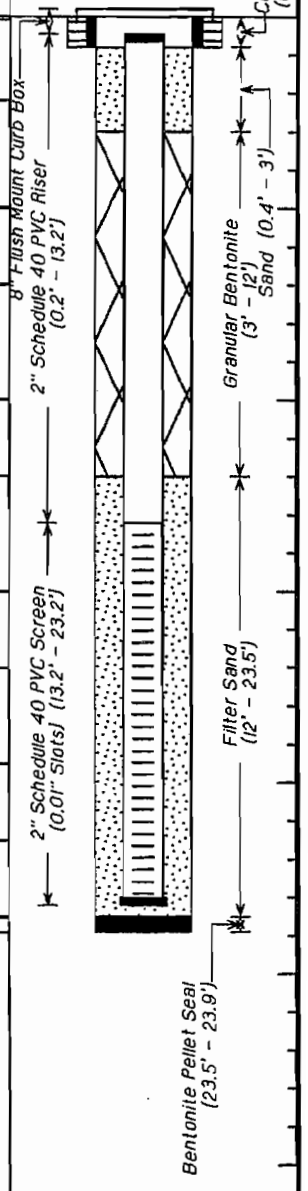
NOTES:

1) Soil samples were screened for volatile organic compounds (VOCs) using a Thermo Environmental Instruments, Inc. Model 580B Organic Vapor Meter (OVM) with a 10.0 eV lamp calibrated to an isobutylene standard. Typical detection limit is 1 ppm. "ND" is not detected.

2) Auger refusal occurred at 23.5'.

3) Auger cuttings were drummed.

WELL DIAGRAM



TEST BORING REPORT

HALEY ALDRICH

Boring No. MW-910

Project	Former Oil House RFI, Canton, Ohio
Client	Timken/TimkenSteel
Contractor	Envirocore

File No.	42916-002
Sheet No.	1 of 1
Start	17 March 2016
Finish	17 March 2016
Driller	E. Prater
H&A Rep.	C. Barnett
Elevation Datum	
Location	See Plan

	Casing	Sampler	Barrel
Type	-	G	Macro
Inside Diameter (in.)	-	1.5	-
Hammer Weight (lb)	-	-	-
Hammer Fall (in.)	-	-	-

Drilling Equipment and Procedures

Rig Make & Model: Geoprobe GP 6620
Bit Type: N/A
Drill Mud: None
Casing: Direct Push
Hoist/Hammer: Winch Automatic
PID Make & Model:

Depth (ft)	PID	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Density/consistency, color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)
0						
	0.3	G1 12/48	0.0	0.5		Topsoil/Organics
						Dense, red-brown, well-graded GRAVEL with sand, mps 30 mm, no odor, dry -FILL-
	0.0					
		G2 16/48	4.0			Poor Recovery
5	0.0					
	0.0					
		G3 10/48	8.0			Poor Recovery
	0.0					
10						
	0.0					
		G4 30/48	12.0			
	0.0					Wet at 13 feet
				14.0		Shale
15	0.0					
				16.0		**END OF EXPLORATION AT 16 FEET**
20						
25						

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Split Spoon Sample

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (ft)	16
Rock Cored (ft)	
Samples	G4

Boring No. MW-910

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None **Plasticity**: N - Nonplastic L - Low M - Medium H - High
Toughness: L - Low M - Medium H - High **Dry Strength**: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

TEST BORING REPORT

HALEY ALDRICH

Boring No. GP-117

Project	Former Oil House RFI, Canton, Ohio
Client	Timken/TimkenSteel
Contractor	Envirocore

File No.	42916-002
Sheet No.	1 of 1
Start	17 March 2016
Finish	17 March 2016
Driller	E. Prater
H&A Rep.	C. Barnett
Elevation Datum	
Location	See Plan

	Casing	Sampler	Barrel
Type	-	G	Macro
Inside Diameter (in.)	-	1.5	-
Hammer Weight (lb)	-	-	-
Hammer Fall (in.)	-	-	-

Drilling Equipment and Procedures

Rig Make & Model: Geoprobe GP 6620
Bit Type: N/A
Drill Mud: None
Casing: Direct Push
Hoist/Hammer: Winch Automatic
PID Make & Model:

Depth (ft)	PID	Sample No. & Rec. (in.)	Sample Depth (ft)	Well Diagram	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Density/consistency, color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)
0		G1 32/48	0.0				Top Soil/Gravel
	0.0				1.0	CL	Soft to medium stiff, red-brown, lean CLAY, mps 25 mm, no odor, moist -FILL-
	0.0						
		G2 28/48	4.0				
5	0.0						
					6.0	SW-SC	Dense, dark brown to red brown, well-graded SAND with clay and gravel, mps 30 mm, no odor, dry -ALLUVIUM-
	0.0						
		G3 31/48	8.0				
	0.0						
10							
	0.0						
		G4 40/48	12.0				
	0.0						
15	0.0						Wet at 15 to 16 feet
					16.0		**BOTTOM OF EXPLORATION AT 16 FEET**
							Installed vapor points at 7.5 and 15.0 feet
20							
25							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft) to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O - Open End Rod
T - Thin Wall Tube
U - Undisturbed Sample
S - Split Spoon Sample

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (ft)	16
Rock Cored (ft)	
Samples	G4

Boring No. GP-117

Field Tests: **Dilatancy**: R - Rapid S - Slow N - None **Plasticity**: N - Nonplastic L - Low M - Medium H - High
Toughness: L - Low M - Medium H - High **Dry Strength**: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

REMCOR

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 89345	PROJECT NAME: Timken Dueber Ave.		
BORING NUMBER: TFB-3	COORDINATES: NA	DATE: 12/28/89	
ELEVATION: Not Surveyed	GWL: DEPTH NA DATE/TIME	DATE STARTED: 12/19/8	
ENGINEER/GEOLOGIST: D Martinez	DEPTH NA DATE/TIME	DATE COMPLETED: 12/19/8	
DRILLING METHODS: Hollow Stem Auger / Split Spoon		PAGE 1 OF 2	

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER (6")	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	REMARKS
2				GRAVEL And Silt (Fill)	FILL		
4							
6	SS-1	11-21-23-40	80%	Dense, Reddish Brown to Brown Medium to coarse Gravel, Some silt, Damp to Moist	GM		HEADSPACE 4-5 ppm
8	SS-2	40-37-29	90%	Dense, Tan, Medium Gravel And Medium Sand Some silt, Damp	GM		18" Spoon HEADSPACE 1ppm
	AUGER						
10	SS-3	14-25-32-50/6"	70%	Dense, Reddish Brown to Brown Medium to coarse Gravel, Some silt, Damp.	GM		HEADSPACE 3 ppm
12	SS-4	25-67/6"	60%	V dense Reddish Brown to Brown Medium to Coarse Gravel Some Silt. Damp to Moist.	GM		HEADSPACE 2-3 pp 18" Spoon

NOTES:

PROJECT NUMBER: 89345	PROJECT NAME: Timken Dueber Ave.		
BORING NUMBER: TFB-3	COORDINATES: NA	DATE: 12/28/89	
ELEVATION: Not Surveyed	GWL: DEPTH NA DATE/TIME	DATE STARTED: 12/19/8	
ENGINEER/GEOLOGIST: D MARTINCEK	DEPTH NA DATE/TIME	DATE COMPLETED: 12/19/	
DRILLING METHODS: Hollow Stem Auger / Split Spoon		PAGE 2 OF 2	

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER (6")	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	REMARKS
		57/6"			GM		
	AUGER						
14	SS-5	39-56-32-26	40%	Dense, Brown-Black stained, Medium to Coarse Sand and Medium Gravel, Wet, Hydrocarbon Odors.	SP		HEADSPACE 20 ppm
							▽ WATER TABLE
16	SS-6	15-10-11	40%	Medium Dense, Black stained, Medium to Coarse Sand, Little Medium Gravel Wet to Saturated, Strong Hydrocarbon Odors	SP		Analytical Sample RT-SS-38 18" Spoon Headspace 60 ppm
	AUGER						
18	SS-7	3-8-8-10	40%	Loose, Black Stained, Coarse to V. Coarse Sand, Some Fine to Medium Gravel, Little Silt, Saturated	SP		HEADSPACE 50 ppm Analytical Sample RT-SS-39
20				TOTAL DEPTH 20.0'			

NOTES: WATER TABLE @ ~ 15.0'

Hole backfilled w/ hole plug

PROJECT NUMBER: 89345	PROJECT NAME: Timken Dueber Ave.		
BORING NUMBER: TFB-5	COORDINATES: NA		DATE: 12/29/89
ELEVATION: Not Surveyed	GWL: DEPTH NA	DATE/TIME	DATE STARTED: 12/19/8
ENGINEER/GEOLOGIST: D MARTINCEK	DEPTH NA	DATE/TIME	DATE COMPLETED: 12/20/
DRILLING METHODS: Hollow Stem Auger / Split Spoon			PAGE 1 OF 2

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER (6")	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	REMARKS
				GRAVEL			
2	AUGER			AUGER returns - Black stained, Medium to Coarse Sand, Strong Hydrocarbon odor			HEADSPACE 30 ppm
4							
6	SS-1	4-7-8	90%	Loose, Black stained, Fine to Medium Sand, Moist, Oily Sheen, Strong Hydrocarbon Odor.	SP		HEADSPACE 38-40 18" Spoon
	AUGER						
8	SS-2	17-34-50-50	80%	Dense Black stained to Dark Brown, Fine Gravel, Some Silt, Damp, Oily Sheen, Hydrocarbon Odors	GM		HEADSPACE 30 pp
10	SS-3	30-38-39	90%	Dense, Black stained to Brown Fine Gravel, Some Silt and Fine Sand, Oil Sheen, Damp	GM		HEADSPACE 20-25 18" Spoon
	AUGER						
12							

NOTES:

PROJECT NUMBER: 89345	PROJECT NAME: Timken Dueber Ave.		
BORING NUMBER: TFB-5	COORDINATES: NA		DATE: 12/29/89
ELEVATION: Not Surveyed	GWL: DEPTH NA	DATE/TIME	DATE STARTED: 12/19/89
ENGINEER/GEOLOGIST: D MARTINCEK	DEPTH NA	DATE/TIME	DATE COMPLETED: 12/20/8
DRILLING METHODS: Hollow Stem Auger / Split Spoon			PAGE 2 OF 2

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER (6")	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	REMARKS
	SS-4	21-17-18-41	70%	Med Dense-Dense, Brown-Dark Brown, Fine-Med Gravel, Some Coarse Sand and Silt, Oily Deposits Damp.	GM		HEADSPACE 30 ppm
14	SS-5	4/8-75/6" 75/6"	40%	V. Dense Brown C. Sand And F.-M. Gravel Some Silt, Damp, Oily Deposits, Strong Hydrocarbon Odor	SW		HEADSPACE 25-30 p 18" Spoon; Analytical Sample RT-SS-52
	AUGER						
16	SS-6	42-43-45	40%	Dense Brown Gravel Some Sand And Silt, Damp, Hydrocarbon Odor	GM		HEADSPACE 30-32 pp 18" Spoon; WATER TABLE ▽
	AUGER						
18	SS-7	19-17-11-17	60%	M. Dense Brown F.-M. Gravel Some Sand And Silt, wet, Free Oil, Strong Hydrocarbon Odor	GM		Headspace 28-30 pp; Analytical Sample RT-SS-53
20	SS-8	13-9-8	10%	M. Dense Black Stained M.-C. Sand Some F. Gravel + Silt Saturated, oily sheen, Hydrocarbon Odor	SW		Analytical Sample RT-SS-054
				TOTAL DEPTH 20.5'			

NOTES:

Sanborn, Head & Associates, Inc.

Log of Boring B-305

PROJECT NO.: *1009*

PROJECT: *Timken Oil House*

DATE STARTED: *9/22/93* DATE FINISHED: *9/22/93*

LOCATION: *Canton, Ohio*

SURFACE ELEVATION: *Approximately 1029'/MSL*

DRILLING METHOD: *CME 75 Drill Rig w/3-1/4" ID HSA*

DRILLING COMPANY: *Northcoast Drilling Services, Inc.*

FOREMAN: *Tracy Teter*

LOGGED BY: *Dennis Porter* CHECKED BY: *Chip Crocetti*

GROUNDWATER READINGS

DATE	TIME	DEPTH	CASING	STAB. TIME

DEPTH feet	SAMPLE NO. Depth (ft.)	BLOWS/6"	PEN/REC (in.)	PID (ppm) VALUES	PID (ppm) PROFILE 0 200	GRAPHIC LOG	STRATUM DESCRIPTION	GEOLOGIC DESCRIPTION	REMARKS
	S-1 0-2'	1-2 5-6	24/12	ND			FILL	Loose, dark grey and brown, fine to coarse SAND, some Gravel, little Silt; black staining from 1.5-2'. Dry. FILL.	1) Soil samples were screened for volatile organic compounds (VOCs) using a Thermo Environmental Instruments, Inc. Model 580B Organic Vapor Meter (OVM) with a 10.0 eV lamp calibrated to an isobutylene standard. Typical detection limit is 1 ppm. "ND" is not detected.
	S-2A 2-2.5' S-2B 2.5-4'	3-11 9-6	24/18	ND				S-2A: Medium dense, black, fine to coarse SAND, trace Gravel, trace Brick and Coal Slag fragments. S-2B: Brown, fine to coarse SAND, some Silt, little Gravel. Dry. FILL.	2) Groundwater estimated at 15.5-17.5'.
5	S-3 4-6'	4-4 4-7	24/20	ND			SAND AND GRAVEL	Loose, rust-brown, fine to medium SAND, little Silt, trace Gravel. Moist.	3) Boring backfilled with Benseal.
	S-4 6-8'	4-2 5-4	24/14	2				Loose, rust-brown, fine to coarse SAND and Gravel, some Silt. Moist.	4) Soil samples S-7 and S-9 submitted for laboratory analysis.
	S-5 8-10'	8-10 14-14	24/18	ND				Medium dense, brown, fine to coarse SAND and Gravel, some Silt. Moist.	
10	S-6 10-12'	12-13 18-30	24/16	ND				Dense, brown, mottled, fine to coarse SAND, some Gravel, some Silt. Dry.	
	S-7 12-14'	11-12 12-13	24/20	ND				Medium dense, brown, fine to coarse SAND and Gravel, little Silt; stratified. Dry.	
	S-8 14-16'	12-12 10-9	24/14	5				Medium dense, brown, mottled, fine to coarse SAND, some Gravel, little Silt. Tip of sample Wet.	
15	S-9 16-18'	11-8 14-14	24/20	30				Medium dense, black, fine to coarse SAND and Gravel, little Silt, oily stain and strong hydrocarbon odor. Wet.	
								Bottom of boring at 18 ft.	
20									

ANALYTICAL RESULTS – SOIL, GROUNDWATER, AND SOIL GAS
(Results within 200-foot radius of road extension)

GZA

TABLE 1
UST NO. 16/OIL HOUSE
CANTON, OHIO
SUMMARY OF REMCOR, INC. SOIL RESULTS

TEST BORINGS AT PIPE TRENCH, SOIL																	
TEST BORING	TB-4		TB-5		TB-6			TB-7				TB-8			TB-9		
Sample Depth	6'-8'	10'-12'	6'-8'	10'-12'	8'-10'	14'-15'	18'-20'	6'-8'	12'-14'	14'-16'	18'-20'	6'-8'	14'-16'	18'-20'	6'-8'	10'-12'	16'-18'
DILUTION FACTOR	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Total Petroleum Hydrocarbons	29,000	4,300	29,000	690	7,500	16,000	210	8,100	9,400	12,000	390	9,100	13,000	7,300	12,000	5,800	3,900
Benzene																	
Toluene																	
Ethylbenzene			2.0			2.0		1.0	1.0	2.0		2.0	1.0	1.0		1.0	1.0
Total Xylenes	2.0		8.0			4.0				9.0			2.0	1.0			

SOIL																	
TEST BORING	TFB-1	TFB-2	TFB-3		TFB-5			TFB-6	MW-1		MW-2	MW-3	MW-4	MW-6	MW-8	MW-9	
SAMPLE DEPTH	14'-16'	13'-15'	15'-17'	18'-20'	13'-15'	17'-19'	20'	16'-18'	16'-18'	18'-20'	20'-22'	20'-22'	16'-18'	14'-16'	15'-17'	17'-19'	73'-75'
DILUTION FACTOR	1.0	1.0	1.0	1.0	1.0	1.0	1.0	5.0	1.0	1.0	1.0	1.0	10.0	1.0	300.0	1900.0	1.0
Total Petroleum Hydrocarbons	160	11,000	9,600	770	12,000	14,000	6,300	29,000	9,700	5,900			5,500	5,800	62	1,800	NA
Benzene							NA	5									
Toluene							NA	56								8,600	
Ethylbenzene		0.8					NA	17							0.840	15,000	
Total Xylenes							NA	110					0.410		1.600	59,000	
Trichloroethene							NA				3.0				NA	NA	
1,1,1-Trichloroethane							NA	4							NA	NA	

6/24/93

TABLE 4
UST NO. 16/OIL HOUSE
THE TIMKEN COMPANY
CANTON, OHIO
SUMMARY OF COMPOUNDS DETECTED IN SOIL SAMPLES, DECEMBER 1992

TEST BORING	B-201		B-202		B-203A		B-204		B-205		B-206		B-207		B-208		B-209	
Sample Number/Depth	S-1/0'-2'	S-9/16'-18'	S-4/10'-12'	S-8/18'-20'	S-4/6'-8'	S-9/16'-18'	S-3/4'-6'	S-7/12'-14'	S-3/4'-6'	S-7/12'-14'	S-8/14'-16'	S-10/18'-20'	S-4/6'-8'	S-9/16'-18'	S-7/12'-14'	S-9/16'-18'	S-6/10'-12'	S-9/16'-18'
VOC DILUTION FACTOR	2.0	1.0	1.0	100.0	1.0	1.0	100.0	100.0	1.0	1.0	1.0	2.0	1.0	1.0	2.0	1.0	1.0	2.0
Total Petroleum Hydrocarbons	300	970	2,800	13,000			4,900	3,300	670	57			180	69	3,600	330	20	560
trans-1,2-Dichloroethene	BMQL																	
Trichloroethene	0.029									0.034	0.021	0.059					0.065	0.700
1,1-Dichloroethane	0.034											0.030						
cis-1,2-Dichloroethene	0.130			0.530								0.120						0.048
1,1,1-Trichloroethane	0.022											0.026						
Tetrachloroethene		0.017	0.012										0.011					
1,2-Dichlorobenzene																		
1,3-Dichlorobenzene																		
1,4-Dichlorobenzene																		
Toluene																	BMQL	BMQL
Ethylbenzene				BMQL														
m & p-Xylenes				1.400														
o-Xylenes				0.770														

MW-211 MW-212

TEST BORING	B-210		B-211	B-212	MW-201		MW-202		MW-203		MW-204	MW-205		MW-206		MW-207	
Sample Number/Depth	S-6/10'-12'	S-10/18'-20'	S-5/8'-10'	S-7/12'-14'	S-1/0'-2'	S-3/10'-12'	S-3/4'-6'	S-7/12'-14'	S-2/2'-4'	S-7/12'-14'	S-4/4'-6'	S-10/18'-20'	S-11/20'-22'	S-6/12'-14'	S-7/14'-16'	S-8/14'-16'	S-11/20'-22'
VOC DILUTION FACTOR	2.0	2.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0	1.0	1.0	1.0	2.0	2.0	100.0	100.0	100.0
Total Petroleum Hydrocarbons	1,400	930	18		320	19	21,000	2,100	12,000	77	27			10,000	5,500		480
trans-1,2-Dichloroethene																	
Trichloroethene	0.019			BMQL						0.033	BMQL	0.510	1.100	0.012		2.000	BMQL
1,1-Dichloroethane										BMQL				0.340			
cis-1,2-Dichloroethene		0.067								0.0095		0.036	0.053	0.082			
1,1,1-Trichloroethane	BMQL			0.0065								0.015	0.033	0.018			
Tetrachloroethene						BMQL	0.036			BMQL	BMQL						
1,2-Dichlorobenzene									0.360								
1,3-Dichlorobenzene									0.069								
1,4-Dichlorobenzene									0.012								
Toluene														BMQL			
Ethylbenzene							BMQL							0.015			
m & p-Xylenes							0.010							0.014	BMQL		
o-Xylenes							BMQL							0.040	BMQL		

* *

NOTES:

1. All concentrations are in milligrams per kilogram (mg/kg), which are equivalent to parts per million (ppm). Base detection limits for individual compounds range between 0.005 and 0.050 ppm; however, elevated concentrations of some samples required dilution prior to analysis resulting in elevated detection limits by factors equal to dilution factors shown above.
2. All soil samples were collected by GZA personnel from December 14, 1992 through December 30, 1992.
3. Soil samples were analyzed by GZA's Environmental Chemistry Laboratory (ECL) of Newton Falls, Massachusetts for volatile organic compounds (VOCs) by EPA Method 8240 and total petroleum hydrocarbons (TPH) by EPA Method 9071/418.1.
4. Blank boxes indicate that the compound was not detected in the corresponding soil sample at reported detection limits.
5. "BMQL" indicates that this compound was detected, but in concentrations below method quantitation limits.

TABLE 5
SUMMARY OF VOC AND TPH ANALYSES ON SOIL SAMPLES
OIL HOUSE/UST NOS. 104, 105, AND 108
THE TIMKEN COMPANY - CANTON, OHIO

TEST BORING	B-301			B-302		B-303		B-304			B-305		B-306	
SAMPLE NUMBER/DEPTH	S-6/10-12'	S-9/16-18'	S-12/22-24'	S-9/16-18'	S-12/22-24'	S-6/12-14'	S-8/16-18'	S-5/9-11'	S-6/11-13'	S-8/15-17'	S-7/12-14'	S-9/16-18'	S-4/11-13'	S-6/15-17'
VOC DILUTION FACTOR	1.0	1.0	5.0	1.0	5.0	1.0	1.0	1.0	1.0	1.0	1.0	5.0	1.0	1.0
Total Petroleum Hydrocarbons								55	510	32000		7400		38000
< Trichloroethene			7.900	0.660	2.800	0.310	0.990							0.005
< 1,1 Dichloroethane														0.020
< cis-1,2 Dichloroethene		0.030	0.730				0.030							
< 1,1,1 Trichloroethane			0.770	0.040	0.380	0.010	0.230							
< Tetrachloroethene											0.070			
Total CVOCs		0.030	9.400	0.700	3.180	0.320	1.250				0.070			0.025
Toluene										0.020				0.020
Ethylbenzene														0.005
Total Xylenes										0.030				0.060

TEST BORING	B-401		B-402		B-403	B-404		B-405		B-406			MW-401	
SAMPLE NUMBER/DEPTH	S-5/9-11'	S-6/11-13'	S-5/20-22'	S-6/22-24'	S-7/12.5-14.5'	S-6/11-13'	S-7/13-15'	S-7/13-15'	S-8/15-17'	S-2/3-5'	S-5/9-11'	S-8/15-17'	S-3/10-12'	S-5/20-22'
VOC DILUTION FACTOR	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	1.0	1.0
Total Petroleum Hydrocarbons	6500	4400	1000	560				1400	5200	210		2900	100	34
Trichloroethene	0.007	0.018	0.210	1.300							0.160		0.036	0.082
1,1 Dichloroethane														
cis-1,2 Dichloroethene														
1,1,1 Trichloroethane	0.010										0.025			
Tetrachloroethene											0.010			
Total CVOCs	0.017	0.018	0.210	1.300							0.195		0.036	0.082
Toluene														
Ethylbenzene												0.040		
Total Xylenes												0.080		

TABLE 5
SUMMARY OF VOC AND TPH ANALYSES ON SOIL SAMPLES
OIL HOUSE/UST NOS. 104, 105, AND 108
THE TIMKEN COMPANY - CANTON, OHIO

TEST BORING	MW-402		MW-405 *		B-501		B-502		B-503		MW-509 *		MW-510	
SAMPLE NUMBER/DEPTH	S-8/15-17'	S-10/19-21'	S-7/13-15'	S-8/15-17'	S-3/6-8'	S-6a/12-12.5'	S-1/2-4'	S-5a/10-11'	S-3/5-7'	S-7/13-15'	S-5/9-11'	S-6/11-13'	S-5/9-11'	S-7a/13-14.3'
VOC DILUTION FACTOR	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Total Petroleum Hydrocarbons			140						60	20		560	80	470
Trichloroethene	0.220	1.300	0.250	0.072						0.160				
1,1 Dichloroethane														
cis-1,2 Dichloroethene														
1,1,1 Trichloroethane	0.031	0.140												
Tetrachloroethene														
Total CVOCs	0.251	1.440	0.250	0.072						0.160				
Toluene														
Ethylbenzene														
Total Xylenes														

TEST BORING	MW-511	MW-512L *		MW-532		B-201H		B-202H			B-203H		B-204H	
SAMPLE NUMBER/DEPTH	S-3/5-7'	S-4/7-9'	S-9b/18-19'	S-2/5-7'	S-3/7-9'	S-2/5-7'	S-4/15-17'	S-2/5-7'	S-4/15-17'	S-5/20-22'	S-3/10-12'	S-5/20-22'	S-3/10-12'	S-5/20-22'
VOC DILUTION FACTOR	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Total Petroleum Hydrocarbons				6000	7100	740	7200			470	140	490		
Trichloroethene														
1,1 Dichloroethane														
cis-1,2 Dichloroethene														
1,1,1 Trichloroethane														
Tetrachloroethene														
Total CVOCs														
Toluene							0.045							
Ethylbenzene														
Total Xylenes				0.050			0.020							

TABLE 2
SUMMARY OF SOIL GAS ANALYTICAL RESUL
FORMER OIL HOUSE REMEDIATION AREA
TIMKENSTEEL
CANTON, OH

Location	GP-116S	GP-117S *	GP-118S	GP-119S	GP-120S
Sample Date	03/29/2017	03/29/2017	03/29/2017	03/29/2017	03/31/2017
Sample Type	N	N	N	N	N
Sample Depth (bgs)	5.8 - 6.3 (ft)	7 - 7.5 (ft)	5 - 5.5 (ft)	5.5 - 6 (ft)	4.5 - 5 (ft)
Volatile Organic Compounds (ug/m3)					
1,1,1-Trichloroethane	1.9 U	**2.2**	2.1 U	2 U	2 U
1,1,2,2-Tetrachloroethane	1.2 U	1.2 U	1.3 U	1.3 U	1.3 U
1,1,2-Trichloroethane	0.96 U	0.92 U	1.1 U	1 U	1 U
1,1-Dichloroethane	1.4 U	1.4 U	1.6 U	1.5 U	1.5 U
1,1-Dichloroethene	1.4 U	1.4 U	1.6 U	1.5 U	1.5 U
1,2,4-Trichlorobenzene	6.6 U	6.3 U	7.2 U	6.9 U	6.9 U
1,2,4-Trimethylbenzene	1.7 U	1.7 U	1.9 U	1.8 U	**6.5**
1,2-Dibromoethane (Ethylene Dibromide)	2.7 U	2.6 U	3 U	2.9 U	2.9 U
1,2-Dichlorobenzene	2.1 U	2 U	2.3 U	2.2 U	2.2 U
1,2-Dichloroethane	0.72 U	0.69 U	0.79 U	0.75 U	0.75 U
1,2-Dichloropropane	1.6 U	1.6 U	1.8 U	1.7 U	1.7 U
1,2-Dichlorotetrafluoroethane (CFC 114)	2.5 U	2.4 U	2.7 U	2.6 U	2.6 U
1,3,5-Trimethylbenzene	1.7 U	1.7 U	1.9 U	1.8 U	1.8 U
1,3-Butadiene	0.79 U	0.76 U	0.86 U	0.82 U	0.82 U
1,3-Dichlorobenzene	2.1 U	2 U	2.3 U	2.2 U	2.2 U
1,4-Dichlorobenzene	2.1 U	2 U	2.3 U	2.2 U	2.2 U
2-Butanone (Methyl Ethyl Ketone)	**8**	**9.4**	**5.9**	5.5 U	**6.7**
2-Hexanone	7.3 U	7 U	8 U	7.6 U	7.6 U
4-Ethyl toluene	1.8 U	1.7 U	1.9 U	1.8 U	1.8 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	7.3 U	7 U	8 U	7.6 U	7.6 U
Acetone	**83.2**	**101**	**96.6**	**83.8**	**77.8**
Benzene	**1.3**	**1.3**	**1.2**	**1.2**	0.59 U
Benzyl Chloride	4.6 U	4.4 U	5.1 U	4.8 U	1.9 U
Bromodichloromethane	2.4 U	2.3 U	2.6 U	2.5 U	2.5 U
Bromoform	9.2 U	8.8 U	10.1 U	9.6 U	3.8 U
Bromomethane (Methyl Bromide)	1.4 U	1.3 U	1.5 U	1.4 U	1.4 U
Carbon disulfide	1.1 U	1.1 U	**4.4**	1.2 U	1.2 U
Carbon tetrachloride	2.2 U	2.1 U	2.5 U	2.3 U	1.2 U
Chlorobenzene	1.6 U	1.6 U	1.8 U	1.7 U	1.7 U
Chloroethane	0.94 U	0.91 U	1 U	0.99 U	0.99 U
Chloroform (Trichloromethane)	0.87 U	**1**	**2.8**	0.91 U	**6.1**
Chloromethane (Methyl Chloride)	**1.6**	**1.1**	**0.85**	**1.1**	0.77 U
cis-1,2-Dichloroethene	1.4 U	1.4 U	1.6 U	1.5 U	1.5 U
cis-1,3-Dichloropropene	1.6 U	1.5 U	1.8 U	1.7 U	1.7 U
Cyclohexane	1.2 U	1.2 U	1.3 U	1.3 U	1.3 U
Dibromochloromethane	3 U	2.9 U	3.3 U	3.2 U	3.2 U
Dichlorodifluoromethane (CFC-12)	**2**	**2.4**	**2.3**	**2.3**	1.8 U
Ethanol	**20.5**	**12**	**11.6**	**9.5**	**10.8**
Ethyl acetate	1.3 U	1.2 U	1.4 U	1.3 U	**4.9**
Ethylbenzene	1.5 U	1.5 U	1.7 U	1.6 U	1.6 U
Hexachlorobutadiene	9.5 U	9.1 U	10.4 U	9.9 U	4 U
Hexane	**8.6**	**9.2**	**7.1**	**8.1**	**3**
Isopropyl Alcohol	4.4 U	4.2 U	**322**	4.6 U	**15.5**
m,p-Xylenes	3.1 U	3 U	3.4 U	3.2 U	3.2 U
Methyl Tert Butyl Ether	6.4 U	6.2 U	7 U	6.7 U	6.7 U
Methylene chloride	**7.7**	5.9 U	6.8 U	6.5 U	6.5 U
Naphthalene	4.7 U	4.5 U	5.1 U	4.9 U	**8.2**
N-Heptane	1.5 U	1.4 U	1.6 U	1.5 U	1.5 U
o-Xylene	1.5 U	1.5 U	1.7 U	1.6 U	1.6 U
Propylene (Propene)	0.61 U	**1.5**	0.67 U	**1.2**	0.64 U
Styrene	1.5 U	1.5 U	1.7 U	1.6 U	1.6 U
Tetrachloroethene	1.2 U	**2.1**	**2.1**	**4.8**	1.3 U
Tetrahydrofuran	1 U	1 U	1.2 U	1.1 U	1.1 U
Toluene	**2**	**1.7**	1.5 U	1.4 U	1.4 U

TABLE 2
SUMMARY OF SOIL GAS ANALYTICAL RESUL
FORMER OIL HOUSE REMEDIATION AREA
TIMKENSTEEL
CANTON, OH

Location	GP-116S	GP-117S	GP-118S	GP-119S	GP-120S
Sample Date	03/29/2017	03/29/2017	03/29/2017	03/29/2017	03/31/2017
Sample Type	N	N	N	N	N
Sample Depth (bgs)	5.8 - 6.3 (ft)	7 - 7.5 (ft)	5 - 5.5 (ft)	5.5 - 6 (ft)	4.5 - 5 (ft)
Volatile Organic Compounds (ug/m3)					
trans-1,2-Dichloroethene	1.4 U	1.4 U	1.6 U	1.5 U	1.5 U
trans-1,3-Dichloropropene	1.6 U	1.5 U	1.8 U	1.7 U	1.7 U
Trichloroethene	1.2 U	**25.9**	1.1 U	**1.4**	1 U
Trichlorofluoromethane (CFC-11)	2 U	1.9 U	**4.2**	2.1 U	2.1 U
Trifluorotrichloroethane (Freon 113)	2.8 U	2.7 U	3.1 U	2.9 U	2.9 U
Vinyl acetate	**1.9**	**2.6**	1.4 U	1.3 U	**2.2**
Vinyl chloride	0.46 U	0.44 U	0.5 U	0.48 U	0.48 U

Notes:
1. Results in **bold** are detected.
2. U: Result not detected above indicated reportir
   J: Estimated result
   J+: Estimated result, biased high
   J-: Estimated result, biased low
3. Detected concentrations were screened agains
   A - On-Site Industrial Building (1E-04 / HI=1)
   B - On-Site Commercial Building (1E-05 / HI=1
   C - Off-Site Commercial Building (1E-05 / HI=1
   D - Off-Site Residential (1E-05 / HI=1)
4. Sample type codes: N - Normal, FD - Field Du

TABLE 4
Summary of Groundwater Analytical Results
Former Oil House Facility
Canton, Ohio

Analyte	Regulatory Standard	Concentrations (ug/L)																				
		MW-207							MW-209								MW-211					
		11/8/2010	9/9/2011	8/30/2012	9/12/2013	10/14/2014	9/15/2015	DUP2 9/15/2015	11/11/2010	DUP3 11/11/2010	9/15/2011	9/5/2012	9/12/2013	DUP2 9/12/2013	11/18/2014	9/16/2015	11/10/2010	9/9/2011	8/30/2012	9/10/2013	10/2/2014	9/21/2015
Petroleum Volatile Organic Compounds (BTEX)	**BUSTR Non-drinking Water ALs**																					
Benzene	4.20	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Toluene	155	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Ethylbenzene	381	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Xylenes (total)	41.30	<0.003	<0.003	<0.003	<0.003	<0.003	<0.010	<0.010	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.010	<0.003	<0.003	<0.003	<0.003	<0.003	<0.010
	TOTAL BTEX	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorinated Volatile Organic Compounds (CVOCs)	**Ohio Unrestricted Potable Use Standards**																					
Chloroethane	0.55	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.015	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloromethane		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.005	<0.005	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.005	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.005
Dichloroethane (1,1-)	0.25	0.0043	0.0056	0.0048	0.0041	0.0026	0.010	0.0097	<0.001	<0.001	<0.001	<0.001	<0.001	0.0025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0004
Dichloroethane (1,1-)	0.007	0.0012	0.0024	<0.001	0.0018	<0.001	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
Dichloroethene (cis-1,2-)	0.07	0.16	0.22	0.14	0.17	0.29	0.0091	0.0088	<0.001	<0.001	<0.001	<0.001	<0.001	0.0013	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dichloroethene (trans-1,2-)	0.1	0.0024	0.0061	0.0051	0.0031	0.0032	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
Trichloroethane (1,1,1-)	0.2	0.0071	0.0041	0.0026	0.0069	0.0019	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
Trichloroethene (TCE)	0.005	0.0041	0.16	0.046	0.020	0.010	<0.005	<0.005	0.015	0.020	0.016	0.016	0.017	<0.001	0.017	0.011	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
Vinyl chloride	0.002	0.065	0.043	0.058	0.048	0.023	0.030	0.029	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	0.0072	<0.001	<0.001	0.0012	<0.001	<0.002
	TOTAL VOCs	0.24	0.44	0.26	0.43	0.33	0.050	0.047	0.015	0.020	0.016	0.016	0.017	0.019	0.017	0.011	0.0072	ND	ND	0.0012	ND	0.0004
Polynuclear Aromatic Hydrocarbons (PAHs)	**BUSTR Non-drinking Water ALs**																					
Benzo(a)anthracene	668	<0.00005	<0.00005	<0.00005	<0.00005	NA	NA	NA	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	0.00007	<0.00005	<0.00018	<0.00005	0.000058	0.00010	<0.00005	NA	NA
Benzo(a)pyrene	127	<0.00005	<0.00005	<0.00005	<0.00005	NA	NA	NA	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00018	<0.00005	<0.00005	<0.00005	<0.00005	NA	NA
Benzo(b)fluoranthene	67.3	<0.00005	<0.00005	<0.00005	<0.00005	NA	NA	NA	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00018	<0.00005	<0.00005	<0.00005	<0.00005	NA	NA
Benzo(k)fluoranthene	23,900	<0.00005	<0.00005	<0.00005	<0.00005	NA	NA	NA	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00018	<0.00005	<0.00005	<0.00005	<0.00005	NA	NA
Chrysene	7,160	<0.00005	<0.00005	<0.00005	<0.00005	NA	NA	NA	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00018	<0.00005	0.00012	0.000069	<0.00005	NA	NA
Dibenz(a,h)anthracene	365	<0.00005	<0.00005	<0.00005	<0.00005	NA	NA	NA	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00018	<0.00005	<0.00005	<0.00005	<0.00005	NA	NA
Indeno(1,2,3-cd)pyrene	2,030	<0.00005	<0.00005	<0.00005	<0.00005	NA	NA	NA	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00018	<0.00005	<0.00005	<0.00005	<0.00005	NA	NA
Naphthalene	22.2	<0.00025	<0.00025	<0.00025	<0.00025	NA	NA	NA	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.001	<0.00025	<0.00025	<0.00025	<0.00025	NA	NA
	TOTAL PAHs	ND	ND	ND	ND	NA	NA	NA	ND	ND	ND	ND	ND	0.00007	ND	ND	ND	0.0002	0.0002	ND	NA	NA

TABLE 4
Summary of Groundwater Analytical Results
Former Oil House Facility
Canton, Ohio

Analyte	Regulatory Standard	Concentrations (mg/L)																			
		MW-212							MW-213						MW-214						
		11/10/2010	9/14/2011	8/30/2012	9/10/2013	DUP 9/10/2013	10/2/2014	9/21/2015	11/10/2010	9/9/2011	8/29/2012	9/10/2013	10/15/2014	9/21/2015	11/10/2010	9/14/2011	8/29/2012	9/10/2013	10/14/2014	9/21/2015
Petroleum Volatile Organic Compounds (BTEX)	BUSTR Non-drinking Water ALs																				
Benzene	4.28	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Toluene	155	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Ethylbenzene	381	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Xylenes (total)	41.30	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
	TOTAL BTEX	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorinated Volatile Organic Compounds (CVOCs)	Ohio Unrestricted Potable Use Standards																				
Chloroethane	0.55	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloromethane		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.005	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.005	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.005
Dichloroethane (1,1-)	0.25	0.0021	0.0031	0.0019	0.0020	0.0019	0.0022	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0018	0.0019	<0.001	<0.001	0.0013	<0.001
Dichloroethene (1,1-)	0.007	<0.001	0.0018	<0.001	<0.001	<0.001	0.0011	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dichloroethene (cis-1,2-)	0.07	0.010	0.047	0.018	0.030	0.029	0.025	0.025	0.0048	0.0046	0.0045	0.0065	0.0059	<0.005	0.0069	0.0053	0.0015	0.0018	0.016	<0.005
Dichloroethene (trans-1,2-)	0.1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trichloroethane (1,1,1-)	0.2	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trichloroethene (TCE)	0.005	0.13	0.18	0.11	0.092	0.089	0.096	0.15	0.012	0.0088	0.0083	0.0092	0.0086	0.0080	0.047	0.044	0.013	0.007	0.014	0.026
Vinyl chloride	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
	TOTAL VOCs	0.15	0.23	0.13	0.12	0.12	0.12	0.18	0.017	0.013	0.013	0.016	0.015	0.0080	0.056	0.051	0.013	0.0080	0.031	0.026
Polynuclear Aromatic Hydrocarbons (PAHs)	BUSTR Non-drinking Water ALs																				
Benzo(a)anthracene	668	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	NA	NA	0.000053	<0.00005	<0.00005	<0.00005	NA	NA	<0.00005	<0.00005	<0.00005	<0.00005	NA	NA
Benzo(a)pyrene	127	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	NA	NA	<0.00005	<0.00005	<0.00005	<0.00005	NA	NA	<0.00005	<0.00005	<0.00005	<0.00005	NA	NA
Benzo(b)fluoranthene	67.3	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	NA	NA	0.000064	<0.00005	<0.00005	<0.00005	NA	NA	<0.00005	<0.00005	<0.00005	<0.00005	NA	NA
Benzo(k)fluoranthene	23.900	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	NA	NA	<0.00005	<0.00005	<0.00005	<0.00005	NA	NA	<0.00005	<0.00005	<0.00005	<0.00005	NA	NA
Chrysene	7.160	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	NA	NA	<0.00005	<0.00005	<0.00005	<0.00005	NA	NA	<0.00005	<0.00005	<0.00005	<0.00005	NA	NA
Dibenz(ah)anthracene	365	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	NA	NA	<0.00005	<0.00005	<0.00005	<0.00005	NA	NA	<0.00005	<0.00005	<0.00005	<0.00005	NA	NA
Indeno(1,2,3-cd)pyrene	2.030	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	NA	NA	<0.00005	<0.00005	<0.00005	<0.00005	NA	NA	<0.00005	<0.00005	<0.00005	<0.00005	NA	NA
Naphthalene	22.2	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	NA	NA	<0.00025	<0.00025	<0.00025	<0.00025	NA	NA	<0.00025	<0.00025	<0.00025	<0.00025	NA	NA
	TOTAL PAHs	ND	ND	ND	ND	ND	NA	NA	0.00012	ND	ND	ND	NA	NA	ND	ND	ND	ND	NA	NA

TABLE 4
Summary of Groundwater Analytical Results
Former Oil House Facility
Canton, Ohio

Analyte	Regulatory Standard	Concentrations (ug/L)																				
		MW-304							MW-305M						MW-305U							
		11/10/2010	9/9/2011	8/30/2012	9/10/2013	10/2/2014	9/10/2015	DUP1 9/10/2015	11/9/2010	9/14/2011	9/5/2012	9/17/2013	10/16/2014	9/14/2015	11/9/2010	9/14/2011	DUP1 9/14/2011	8/29/2012	9/17/2013	10/16/2014	9/14/2015
Petroleum Volatile Organic Compounds (BTEX)	**BUSTR Non-drinking Water ALs**																					
Benzene	4.28	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
Toluene	155	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Ethylbenzene	301	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
Xylenes (total)	41.30	<0.003	<0.003	<0.003	<0.003	<0.005	<0.010	<0.010	<0.003	<0.003	<0.003	<0.003	<0.003	<0.010	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.010
	TOTAL BTEX	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorinated Volatile Organic Compounds (CVOCs)	**Ohio Unrestricted Potable Use Standards**																					
Chloroethane	0.55	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloromethane		<0.0025	<0.0015	<0.0025	<0.0025	<0.0025	<0.005	<0.005	<0.0015	<0.0015	<0.0025	<0.0025	<0.0015	<0.005	<0.0025	<0.0025	<0.0025	<0.0015	<0.0025	<0.0015	<0.005
Dichloroethane (1,1-)	0.25	0.0028	0.0026	0.0022	0.0022	0.0025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dichloroethene (1,1-)	0.007	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Dichloroethene (cis-1,2-)	0.07	0.0047	0.0045	0.0044	0.0048	0.0054	<0.001	<0.001	0.0044	0.0047	0.0022	0.0019	0.0016	<0.001	0.0088	0.0042	0.0048	0.0042	0.0072	0.0072	<0.001
Dichloroethene (trans-1,2-)	0.1	0.0010	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trichloroethane (1,1,1-)	0.2	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Trichloroethene (TCE)	0.005	0.0052	0.0044	0.0045	0.0037	0.0041	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
Vinyl chloride	0.002	<0.002	<0.001	<0.001	<0.002	<0.001	<0.002	<0.002	<0.002	<0.001	<0.002	<0.001	<0.001	<0.002	0.0011	<0.001	<0.002	<0.001	<0.001	0.0012	<0.002
	TOTAL VOCs	0.014	0.012	0.011	0.011	0.012	ND	ND	0.0044	0.0047	0.0022	0.0019	0.0016	ND	0.0099	0.0042	0.0048	0.0042	0.0072	0.0084	ND
Polynuclear Aromatic Hydrocarbons (PAHs)	**BUSTR Non-drinking Water ALs**																					
Benzo(a)anthracene	668	<0.00005	<0.00005	<0.00005	<0.00005	NA	NA	NA	<0.00005	<0.00005	<0.00005	<0.00005	NA	NA	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	NA	NA
Benzo(a)pyrene	127	<0.00005	<0.00005	<0.00005	<0.00005	NA	NA	NA	<0.00005	<0.00005	<0.00005	<0.00005	NA	NA	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	NA	NA
Benzo(b)fluoranthene	67.3	<0.00005	<0.00005	<0.00005	<0.00005	NA	NA	NA	<0.00005	<0.00005	<0.00005	<0.00005	NA	NA	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	NA	NA
Benzo(k)fluoranthene	23,900	<0.00005	<0.00005	<0.00005	<0.00005	NA	NA	NA	<0.00005	<0.00005	<0.00005	<0.00005	NA	NA	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	NA	NA
Chrysene	7,160	<0.00005	<0.00005	<0.00005	<0.00005	NA	NA	NA	<0.00005	<0.00005	<0.00005	<0.00005	NA	NA	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	NA	NA
Dibenz(a,h)anthracene	365	<0.00005	<0.00005	<0.00005	<0.00005	NA	NA	NA	<0.00005	<0.00005	<0.00005	<0.00005	NA	NA	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	NA	NA
Indeno(1,2,3-cd)pyrene	2,030	<0.00005	<0.00005	<0.00005	<0.00005	NA	NA	NA	<0.00005	<0.00005	<0.00005	<0.00005	NA	NA	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	NA	NA
Naphthalene	22.2	<0.00025	<0.00025	<0.00025	<0.00025	NA	NA	NA	<0.00025	<0.00025	<0.00025	<0.00025	NA	NA	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	NA	NA
	TOTAL PAHs	ND	ND	ND	ND	NA	NA	NA	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	ND	NA	NA

TABLE 4
Summary of Groundwater Analytical Results
Former Oil House Facility
Canton, Ohio

Analyte	Regulatory Standard	Concentrations (mg/L)																	
		MW-508						MW-515						MW-522					
		11/10/2010	9/14/2011	8/29/2012	9/10/2013	10/2/2014	9/11/2015	11/10/2010	9/9/2011	8/29/2012	9/11/2013	10/15/2014	9/14/2015	11/8/2010	9/19/2011	8/28/2012	9/10/2013	10/17/2014	9/9/2015
Petroleum Volatile Organic Compounds (BTEX)	**BUSTR Non-drinking Water ALs**																		
Benzene	4.28	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
Toluene	155	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Ethylbenzene	381	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
Xylenes (total)	41.30	<0.003	<0.003	<0.003	<0.003	<0.003	<0.015	<0.003	<0.003	<0.003	<0.003	<0.003	<0.015	<0.003	<0.003	<0.003	<0.003	<0.003	<0.015
	TOTAL BTEX	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorinated Volatile Organic Compounds (CVOCs)	**Ohio Unrestricted Potable Use Standards**																		
Chloroethane	0.55	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chloromethane		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.005	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.005	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.005
Dichloroethane (1,1-)	0.25	0.0012	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
Dichloroethene (1,1-)	0.007	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
Dichloroethene (cis-1,2-)	0.07	<0.001	0.0021	0.0013	0.0012	0.0039	<0.005	0.0012	<0.001	0.0017	0.0022	0.0014	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
Dichloroethene (trans-1,2-)	0.1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
Trichloroethane (1,1,1-)	0.2	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
Trichloroethene (TCE)	0.005	<0.001	0.0043	0.0012	<0.001	0.0020	<0.005	0.0013	<0.001	0.0010	0.0016	0.0015	<0.005	<0.001	0.0012	<0.001	<0.001	<0.001	<0.005
Vinyl chloride	0.002	0.0023	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002
	TOTAL VOCs	0.0035	0.0064	0.0025	0.0012	0.0059	ND	0.0025	ND	0.0027	0.0038	0.0029	ND	ND	0.0012	ND	ND	ND	ND
Polynuclear Aromatic Hydrocarbons (PAHs)	**BUSTR Non-drinking Water ALs**																		
Benzo(a)anthracene	668	<0.00005	<0.00005	<0.00005	<0.00005	NA	NA	<0.00005	<0.00005	<0.00005	<0.00005	NA	NA	<0.00005	<0.00005	<0.00005	<0.00005	NA	NA
Benzo(a)pyrene	127	<0.00005	<0.00005	<0.00005	<0.00005	NA	NA	<0.00005	<0.00005	<0.00005	<0.00005	NA	NA	<0.00005	<0.00005	<0.00005	<0.00005	NA	NA
Benzo(b)fluoranthene	67.3	<0.00005	<0.00005	<0.00005	<0.00005	NA	NA	<0.00005	<0.00005	<0.00005	<0.00005	NA	NA	<0.00005	<0.00005	<0.00005	<0.00005	NA	NA
Benzo(k)fluoranthene	23.900	<0.00005	<0.00005	<0.00005	<0.00005	NA	NA	<0.00005	<0.00005	<0.00005	<0.00005	NA	NA	<0.00005	<0.00005	<0.00005	<0.00005	NA	NA
Chrysene	7.160	<0.00005	<0.00005	<0.00005	<0.00005	NA	NA	<0.00005	<0.00005	<0.00005	<0.00005	NA	NA	<0.00005	<0.00005	<0.00005	<0.00005	NA	NA
Dibenz(a,h)anthracene	365	<0.00005	<0.00005	<0.00005	<0.00005	NA	NA	<0.00005	<0.00005	<0.00005	<0.00005	NA	NA	<0.00005	<0.00005	<0.00005	<0.00005	NA	NA
Indeno(1,2,3-cd)pyrene	2.030	<0.00005	<0.00005	<0.00005	<0.00005	NA	NA	<0.00005	<0.00005	<0.00005	<0.00005	NA	NA	<0.00005	<0.00005	<0.00005	<0.00005	NA	NA
Naphthalene	22.2	<0.00025	<0.00025	<0.00025	<0.00025	NA	NA	<0.00025	<0.00025	<0.00025	<0.00025	NA	NA	<0.00025	<0.00025	<0.00025	<0.00025	NA	NA
	TOTAL PAHs	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	NA	NA

TABLE 4
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
FORMER OIL HOUSE REMEDIATION AREA
TIMKENSTEEL
CANTON, OH

Location	Detected?	MW-908	MW-909	MW-910	MW-911	MW-912	MW-913	MW-913	MW-914	MW-915
Sample Date		04/20/2016	04/20/2016	04/20/2016	04/21/2016	04/21/2016	04/20/2016	04/20/2016	04/21/2016	04/21/2016
Sample Type		N	N	N	N	N	FD	N	N	N
Sample Name		MW908-042016-1455	MW909-042016-1240	MW910-042016-1525	MW911-042116-1045	MW912-042116-1145	3269-042016-0001	MW913-042016-1620	MW914-042116-1315	MW915-042116-1440
Volatile Organic Compounds (ug/L)										
1,1,1,2-Tetrachloroethane	N	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,1-Trichloroethane	Y	**21**	**29.5**	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	N	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	N	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	N	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	N	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2,4-Trichlorobenzene	N	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2,4-Trimethylbenzene	N	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichlorobenzene	N	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	N	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	N	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,3-Dichloropropane	N	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,4-Dichlorobenzene	N	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Butanone (Methyl Ethyl Ketone)	N	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	N	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Acetone	N	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Benzene	N	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromodichloromethane	N	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromoform	N	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromomethane (Methyl Bromide)	N	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon disulfide	N	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbon tetrachloride	N	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	N	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroethane	N	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroform (Trichloromethane)	N	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloromethane (Methyl Chloride)	N	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
cis-1,2-Dichloroethene	Y	**19.5**	**8.5**	5 U	**10.8**	5 U	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	N	4.1 U	4.1 U	4.1 U	4.1 U	4.1 U	4.1 U	4.1 U	4.1 U	4.1 U
Dibromochloromethane	N	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dibromomethane	N	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dichlorodifluoromethane (CFC-12)	N	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Ethyl methacrylate	N	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Ethylbenzene	N	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Hexane	N	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Isopropylbenzene	N	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methyl Tert Butyl Ether	N	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U
Methylene chloride	N	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Styrene	N	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Tetrachloroethene	N	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Toluene	N	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
trans-1,2-Dichloroethene	Y	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
trans-1,3-Dichloropropene	N	4.1 U	4.1 U	4.1 U	4.1 U	4.1 U	4.1 U	4.1 U	4.1 U	4.1 U
Trichloroethene	Y	**208**	**8.5**	5 U	**42.6**	**12.3**	5 U	5 U	**7.6**	**10.3**
Trichlorofluoromethane (CFC-11)	N	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Vinyl acetate	N	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Vinyl chloride	N	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Xylene (total)	N	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U

Notes:
1. Results in **bold** are detected.
2. U: Result not detected above indicated reporting limit.
3. Sample type codes: N - Normal, FD - Field Duplicate

Appendix C

Preliminary Design Plans

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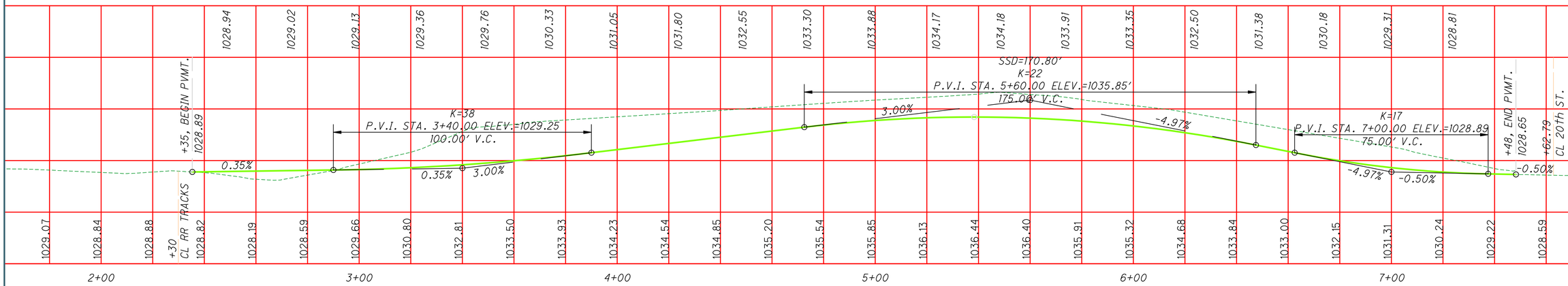
0 15 30 60
HORIZONTAL SCALE IN FEET

CALCULATED MJC
CHECKED DGF

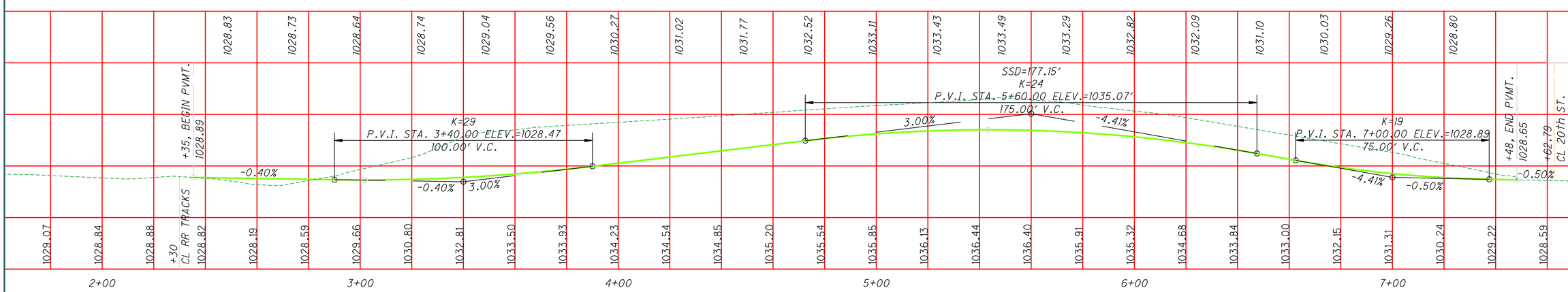
TIMKENSTEEL DRIVE
PLAN VIEW

CANTON, OHIO

Profile View of Timken 2



Profile View of Timken 1



HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED MJC
CHECKED DGF

TIMKENSTEEL DRIVE PROFILES

CANTON, OHIO

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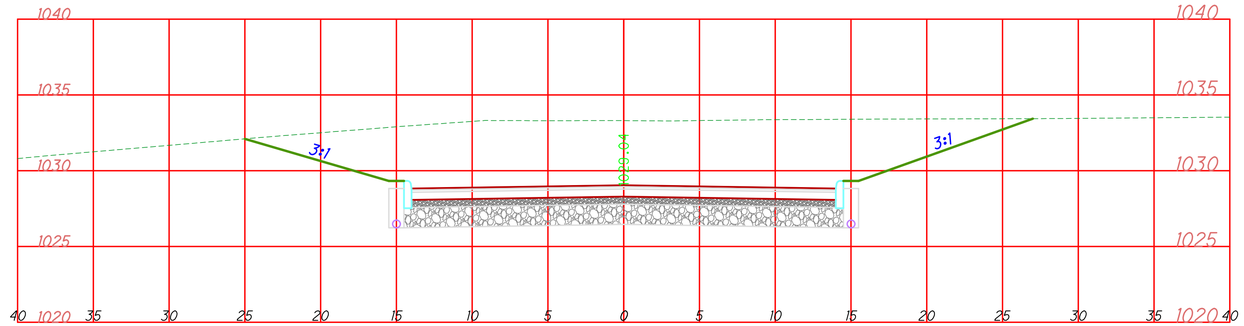
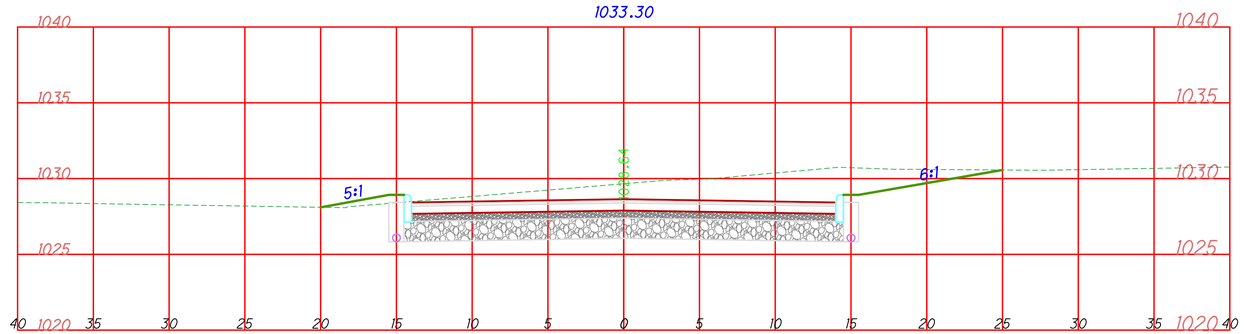
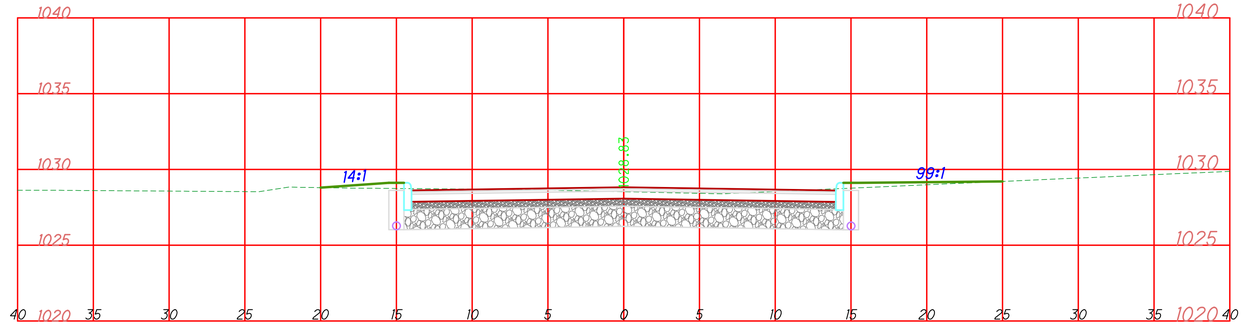
R.E. Warner & Assoc. Inc.



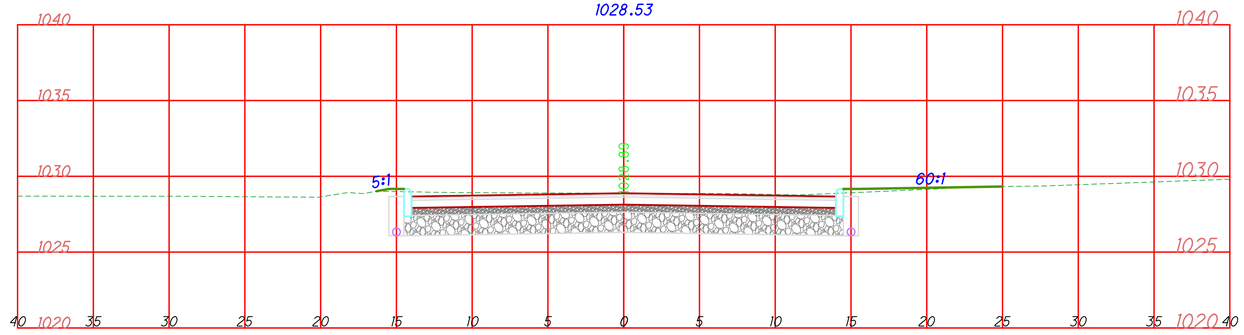
3+50.00
1033.30



3+00.00



2+50.00
1028.53



2+35.34
1028.89

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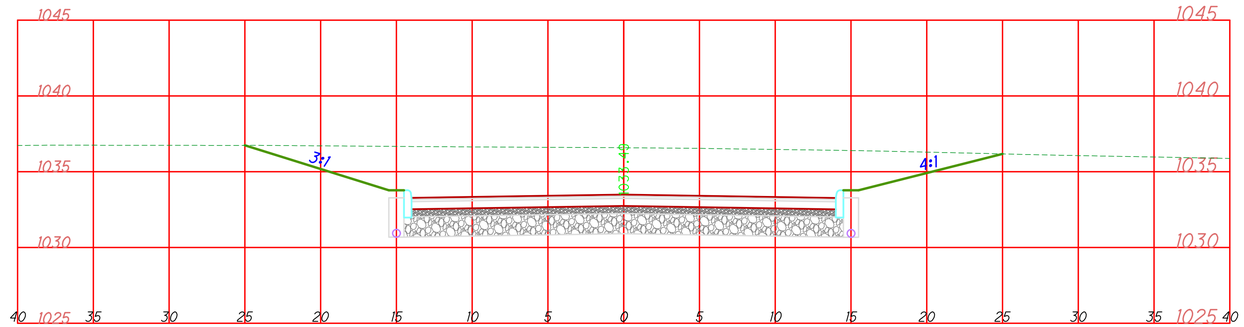
0 2.5 5 10
HORIZONTAL
SCALE IN FEET

CALCULATED MJC
CHECKED DGF

CROSS SECTIONS – TIMKENSTEEL DRIVE PROFILE 1
STA. 2+35 TO STA. 3+50

CANTON, OHIO



5+50.00
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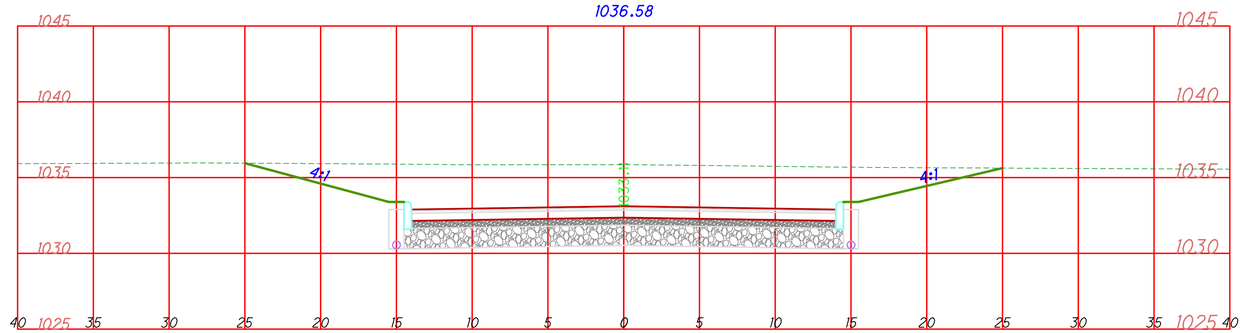

5+00.00
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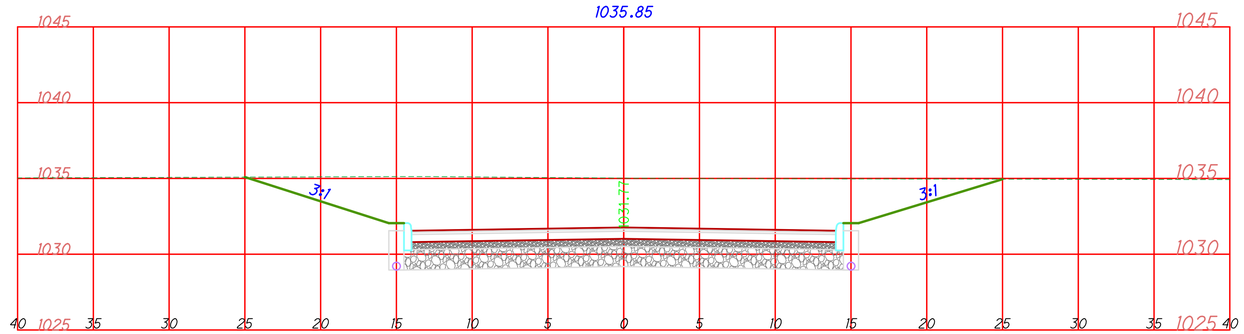
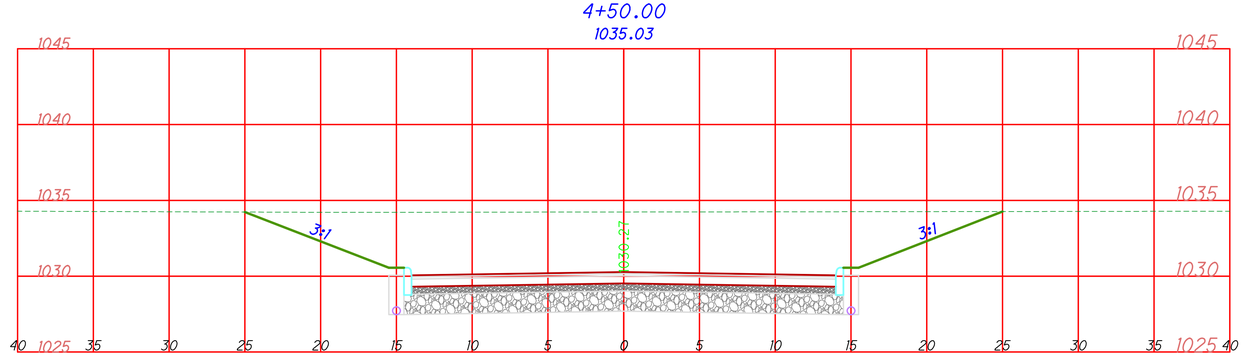


4+50.00
1035.03



4+00.00
1034.23

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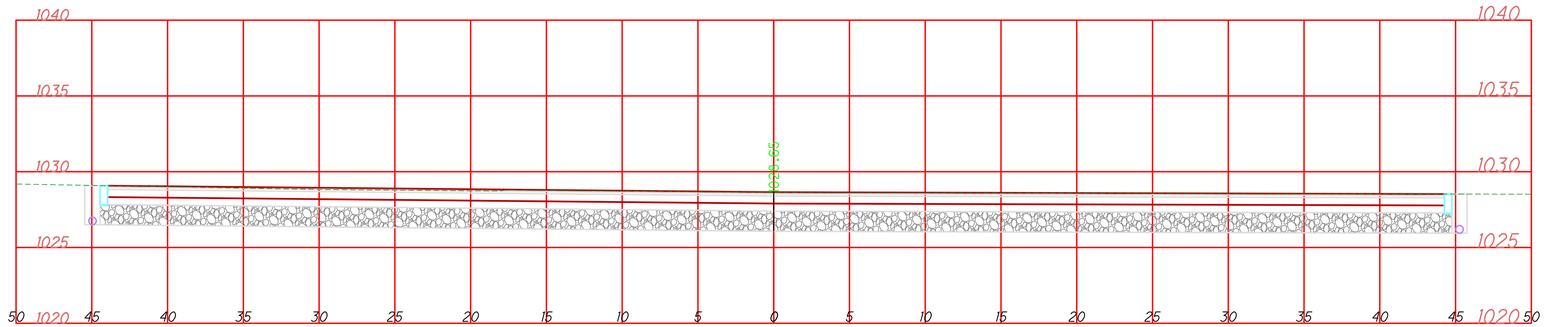
0 2.5 5 10
HORIZONTAL SCALE IN FEET

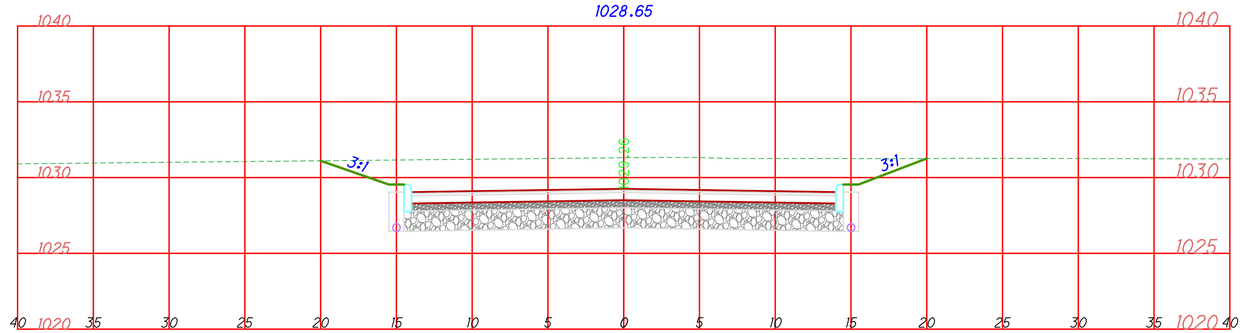
CALCULATED MJC
CHECKED DGF

CROSS SECTIONS – TIMKENSTEEL DRIVE PROFILE 1
STA. 4+00 TO STA. 5+50

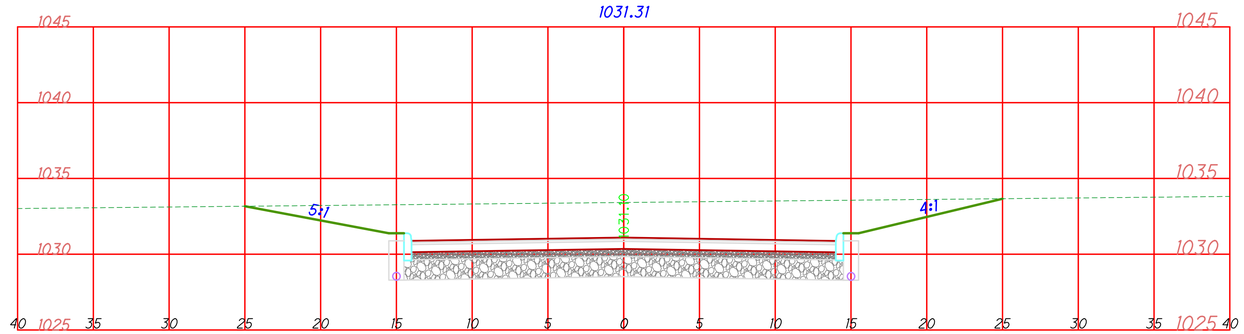
CANTON, OHIO



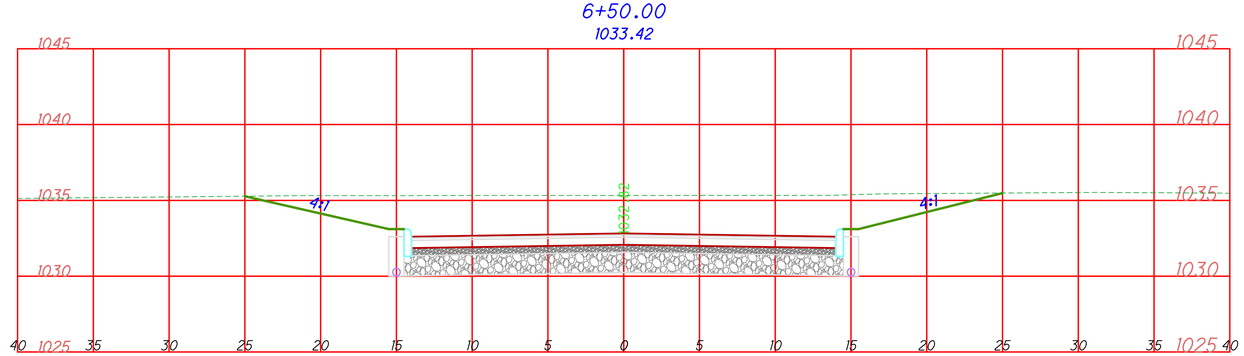
7+48.26
1028.65



7+00.00
1031.31



6+50.00
1033.42



6+00.00
1035.32

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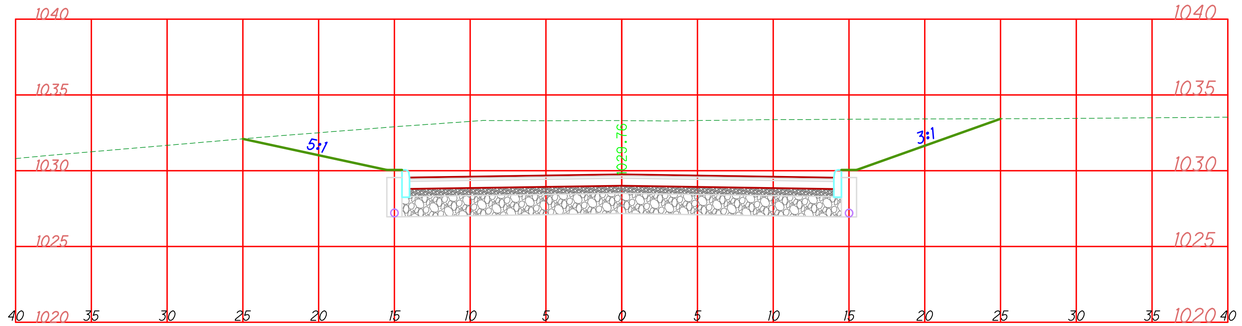
HORIZONTAL SCALE IN FEET
0 2.5 5 10

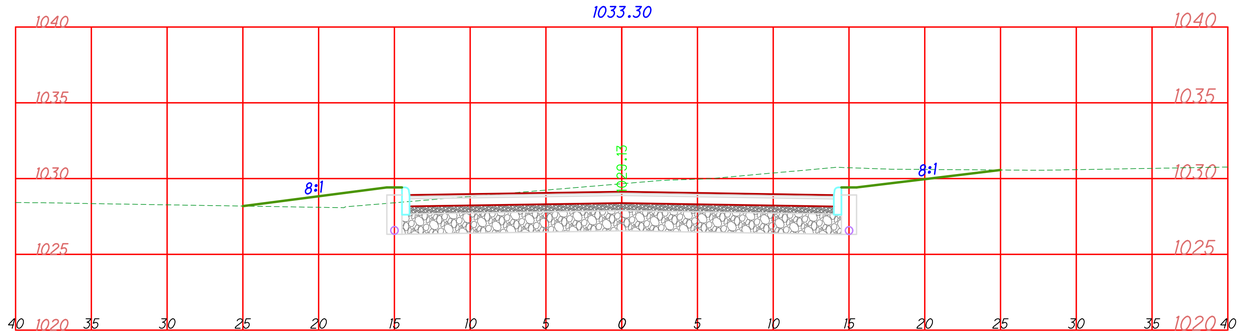
CALCULATED MJC
CHECKED DGF

CROSS SECTIONS – TIMKENSTEEL DRIVE PROFILE 1
STA. 6+00 TO STA. 7+48

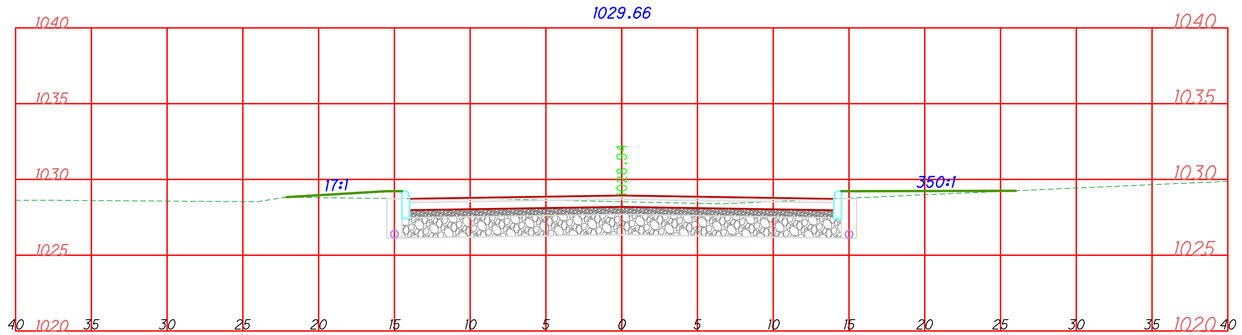
CANTON, OHIO



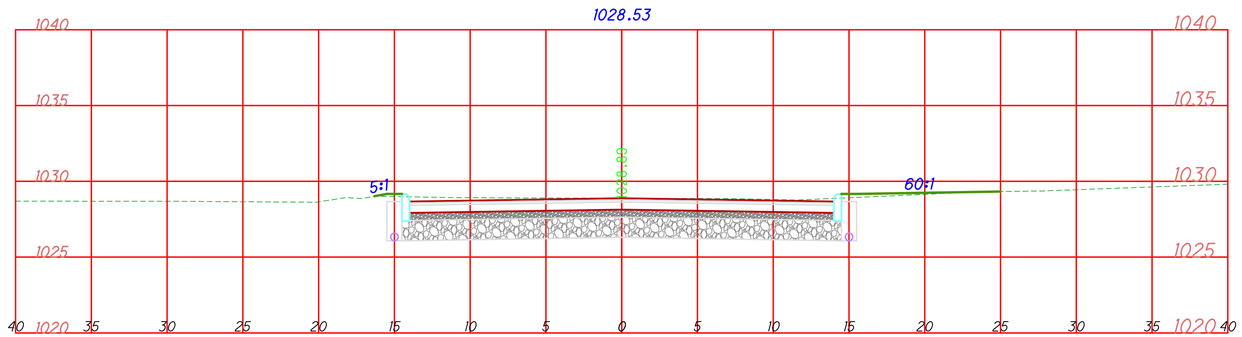
3+50.00
1033.30



3+00.00
1029.66



2+50.00
1028.53



2+35.34
1028.89

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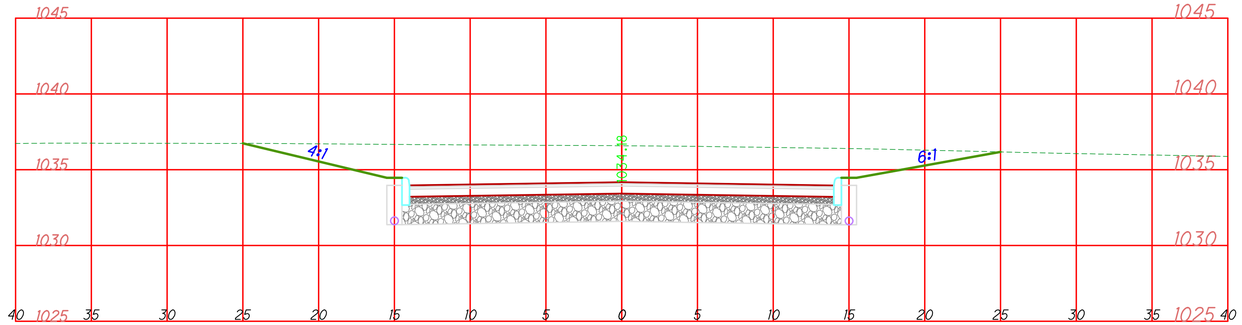
HORIZONTAL SCALE IN FEET
0 2.5 5 10

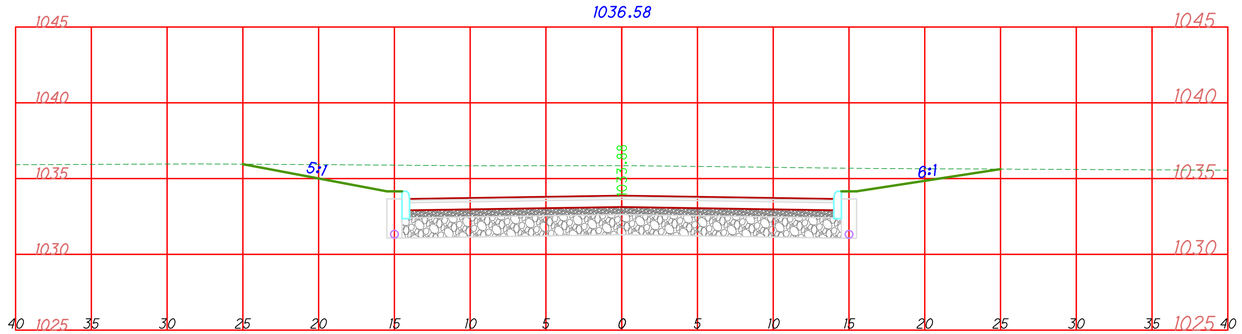
CALCULATED MJC
CHECKED DGF

CROSS SECTIONS – TIMKENSTEEL DRIVE PROFILE 2
STA. 2+35 TO STA. 3+50

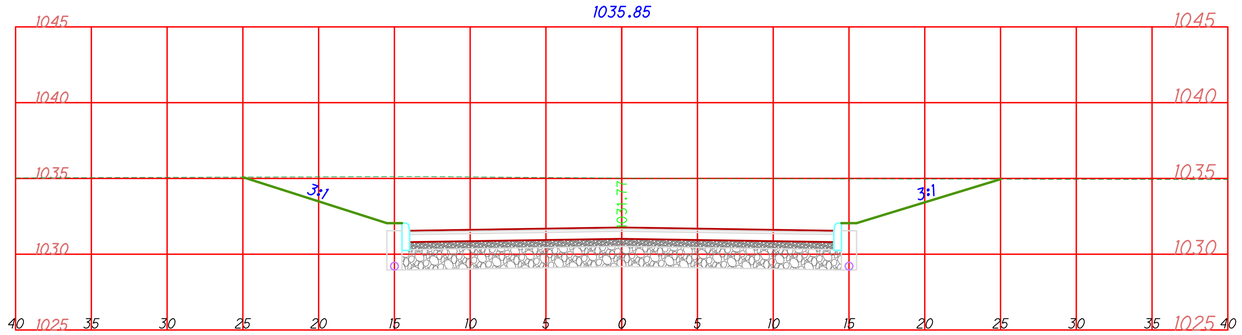
CANTON, OHIO



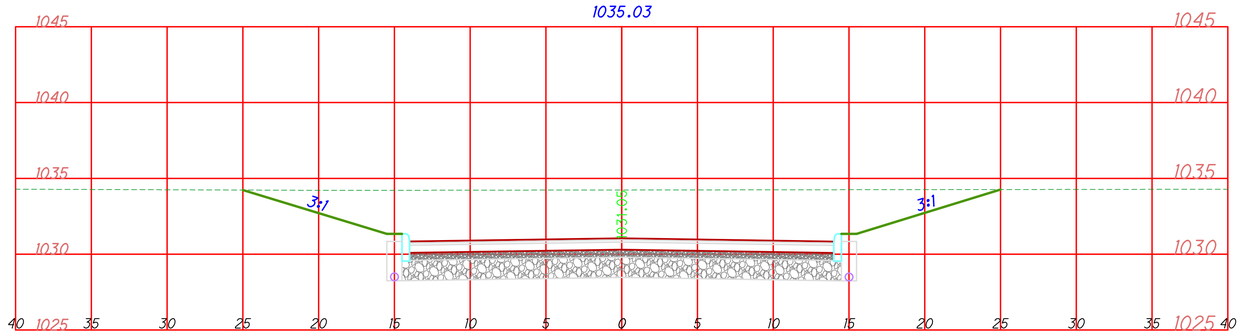
5+50.00
1036.58



5+00.00
1035.85



4+50.00
1035.03



4+00.00
1034.23

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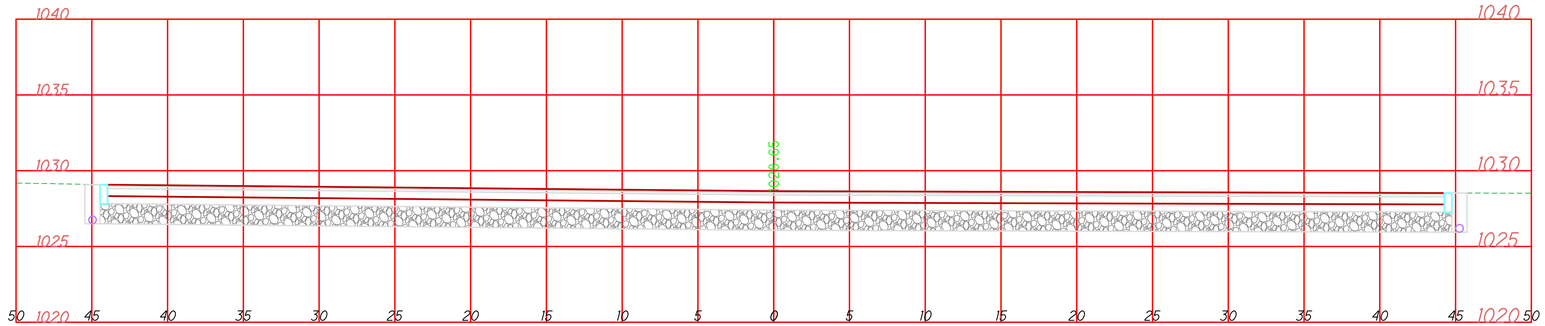
0 2.5 5 10
HORIZONTAL SCALE IN FEET

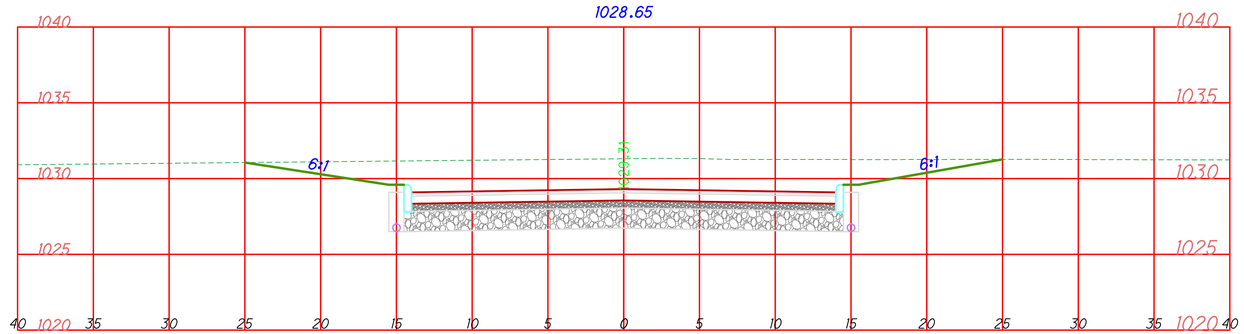
CALCULATED MJC
CHECKED DGF

CROSS SECTIONS – TIMKENSTEEL DRIVE PROFILE 2
STA. 4+00 TO STA. 5+50

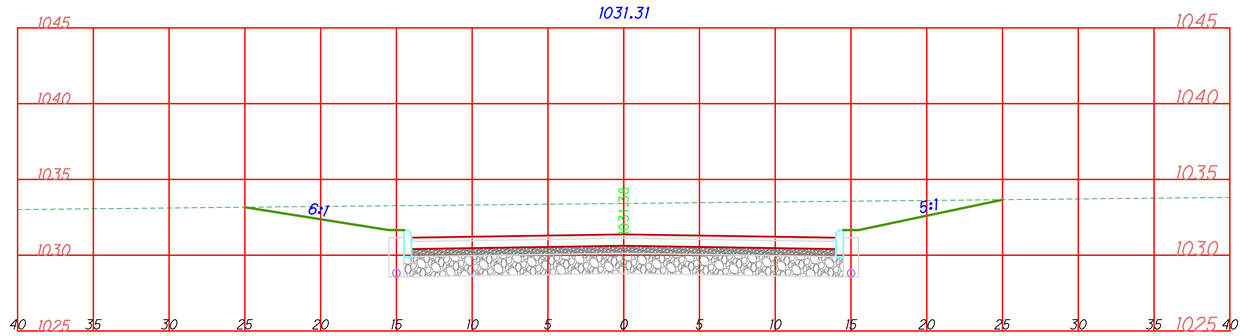
CANTON, OHIO



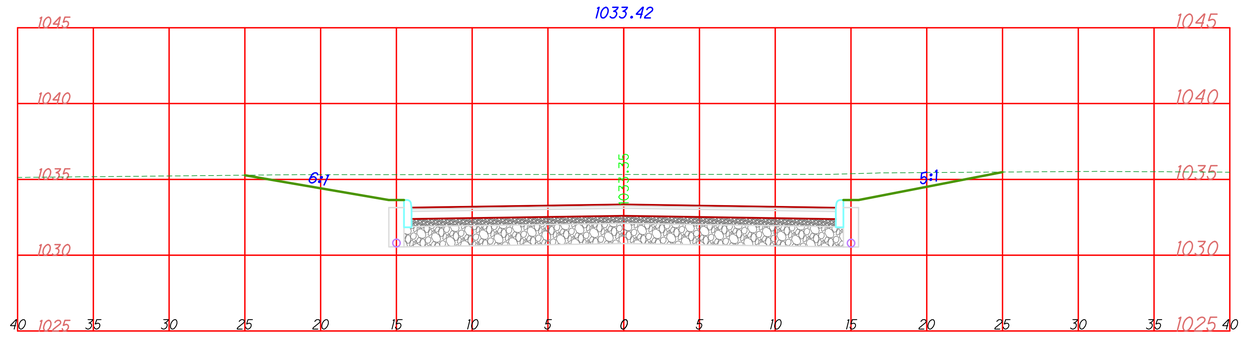
7+48.26
1028.65



7+00.00
1031.31



6+50.00
1033.42



6+00.00
1035.32

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HORIZONTAL SCALE IN FEET
0 2.5 5 10

CALCULATED MJC
CHECKED DGF

CROSS SECTIONS – TIMKENSTEEL DRIVE PROFILE 2
STA. 6+00 TO STA. 7+48

CANTON, OHIO

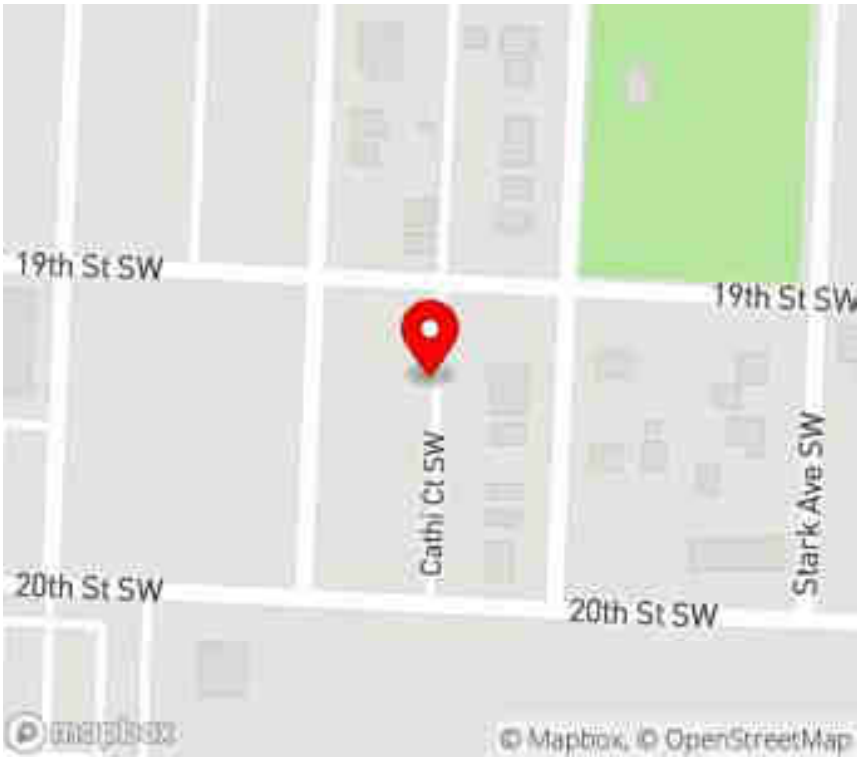
9
9

Appendix D

Sample Collection Data Forms

Sample Collection Data

Section 1

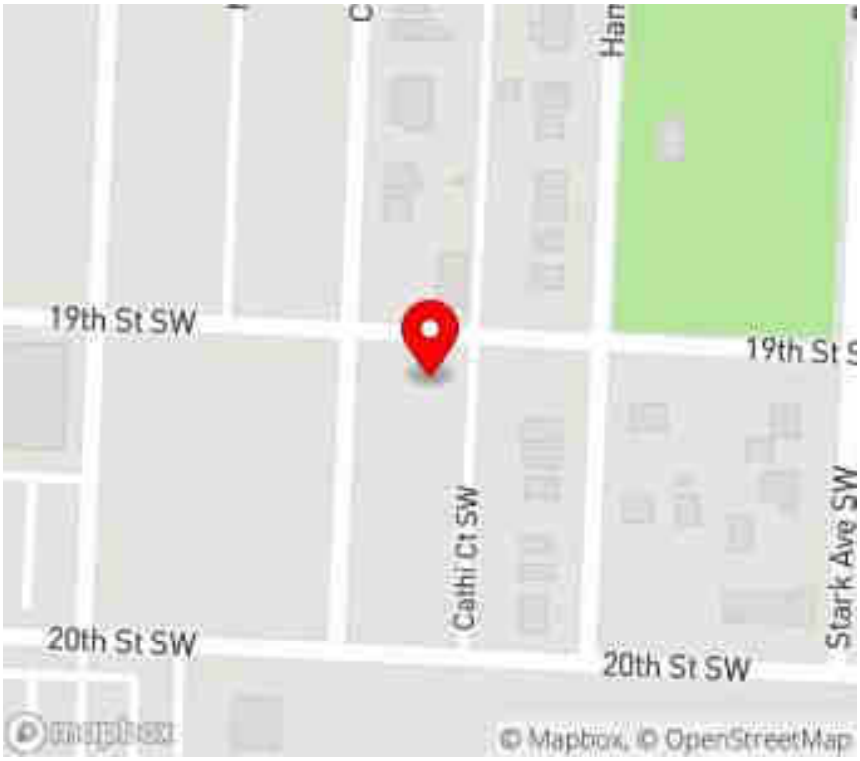
Project Name	Clark Ave Extension
Project Number	12898
Client Name	City of Canton
Date	09-01-2020
Time	10:20 AM (-4 GMT)
Media	Sub Surface Soil
Sample Type	Discrete Grab
Sample ID	TP1_090120_S3
Location / GPS	
	Lat: 40.7778990609328 Long: -81.3920981289767
Sample Location Description	N end of project area near intersection Clark Ave and 20th St
Headspace Concentration (ppm)	5.20
Sample Description	Test Pit 1 located nearest to intersection of Clark Ave and 20th St at North end of project area. 10ft long excavation running East West. Concrete encountered at centerline approximately 2ft deep. Test Pit 1 excavated to 5 ft target depth immediately East of center line. Sample at 3ft depth

Sample Collection Data

Sample Photos		
Sampler Name	Kyle Lawrence	

Sample Collection Data

Section 1

Project Name	Clark Ave Extension
Project Number	12898
Client Name	City of Canton
Date	09-01-2020
Time	10:15 AM (-4 GMT)
Media	Sub Surface Soil
Sample Type	Discrete Grab
Sample ID	TP1_090120_S5
Location / GPS	
	Lat: 40.7780733723898 Long: -81.3922384881286
Sample Location Description	Test Pit 1 located nearest to intersection of Clark Ave and 20th St at North end of project area. 10ft long excavation running East West. Concrete encountered at centerline approximately 2ft deep. Test Pit 1 excavated to 5 ft target depth immediately East of center line
Sample Description	Dark soil mixed with various types of fill debris (concrete, brick, etc). Solid concrete encountered in Test Pit. Sample at 5' depth

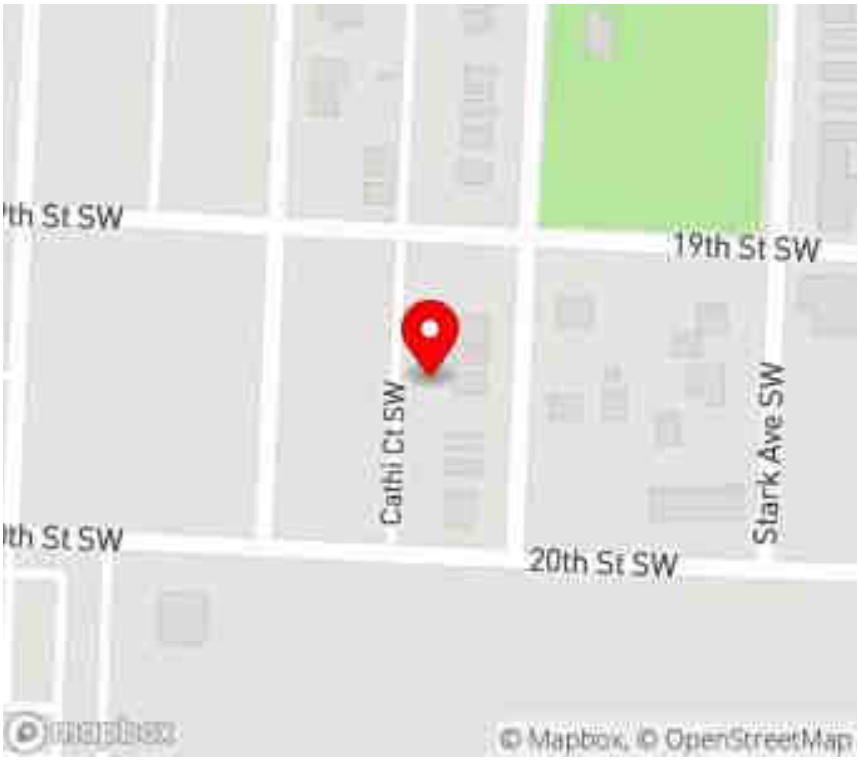
Sample Collection Data

Sample Photos				
				
Sampler Name	Kyle Lawrence			

Submitted By: ipad-01@enviroscienceinc.com

Sample Collection Data

Section 1

Project Name	Clark Ave Extension
Project Number	12898
Client Name	City of Canton
Date	09-01-2020
Time	11:05 AM (-4 GMT)
Media	Sub Surface Soil
Sample Type	Discrete Grab
Sample ID	TP2_090120_S2
Location / GPS	
	Lat: 40.7777357148803 Long: -81.3919274184515
Sample Location Description	N end of project area, near intersection of Clark Ave and 20th St
Headspace Concentration (ppm)	16.90
Sample Description	Dark soil with mixed fill debris (rock, concrete metal, bricks, etc). Excavation 12ft long, 3ft wide, 4ft deep going East-West. Target depth was 5ft, concrete encountered at 4ft. Sample depth 2ft.

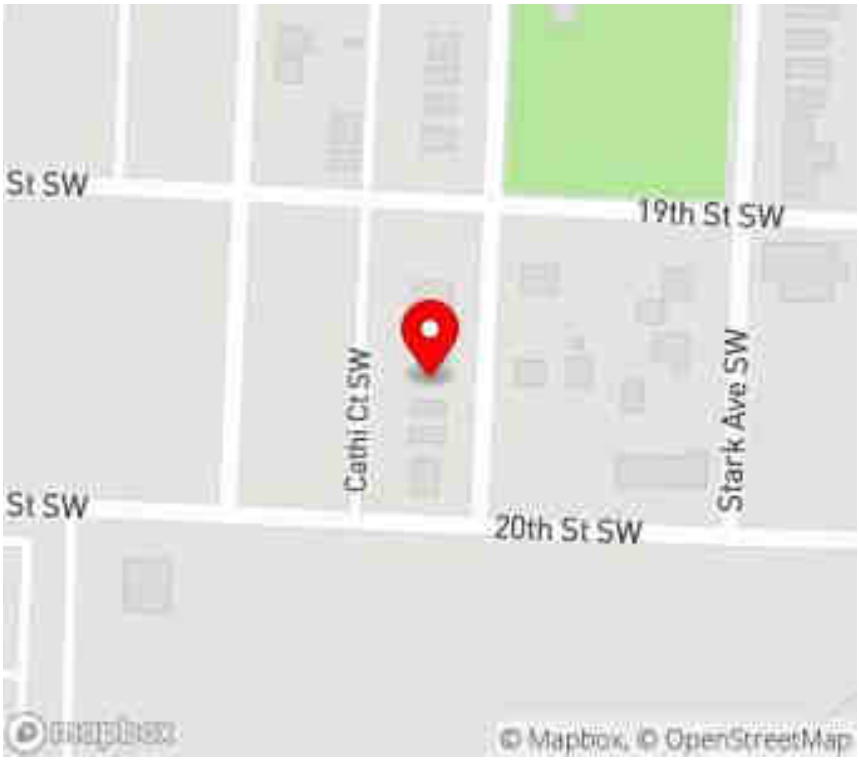
Sample Collection Data

Sample Photos		
Sampler Name	Kyle Lawrence	

Submitted By: ipad-01@enviroscienceinc.com

Sample Collection Data

Section 1

Project Name	Clark Ave Extension
Project Number	12898
Client Name	City of Canton
Date	09-01-2020
Time	11:00 AM (-4 GMT)
Media	Sub Surface Soil
Sample Type	Discrete Grab
Sample ID	TP2_090120_S4
Location / GPS	
	Lat: 40.7776286388548 Long: -81.3917762721984
Sample Location Description	Test Pit 2 located near intersection of Clark Ave and 20th St at North end of project area.
Headspace Concentration (ppm)	2.30
Sample Description	Dark soil with mixed fill debris (rock, concrete metal, bricks, etc). Excavation 12ft long, 3ft wide, 4ft deep going East-West. Target depth was 5ft, concrete encountered at 4ft. Sample depth 4ft.

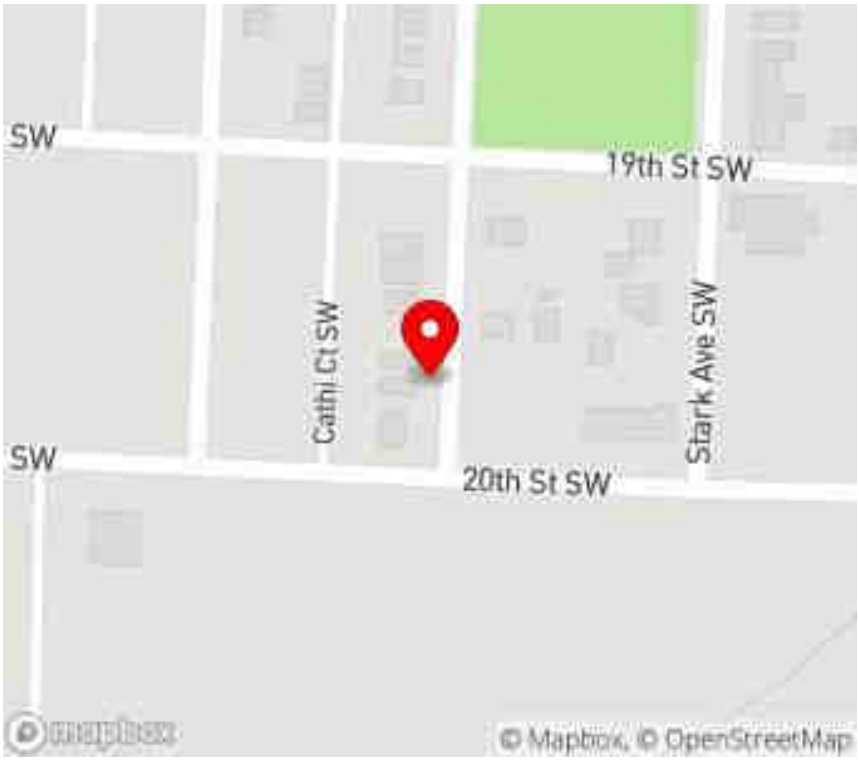
Sample Collection Data

Sample Photos				
Sampler Name	Kyle Lawrence			

Submitted By: ipad-01@enviroscienceinc.com

Sample Collection Data

Section 1

Project Name	Clark Ave Extension
Project Number	12898
Client Name	City of Canton
Date	09-01-2020
Time	11:40 AM (-4 GMT)
Media	Sub Surface Soil
Sample Type	Discrete Grab
Sample ID	TP3_090120_S1
Location / GPS	
	Lat: 40.7774739348062 Long: -81.3916405122373
Sample Location Description	N end of project area. Locate near intersection of Clark Ave and 20th St
Headspace Concentration (ppm)	1.00
Sample Description	Brown soil with mixed fill debris (rock). Brick encountered at W end of excavation. Excavation 8ft long, 2ft wide, 5 deep going East-West. Target depth was 4.5ft. Sample depth 1ft

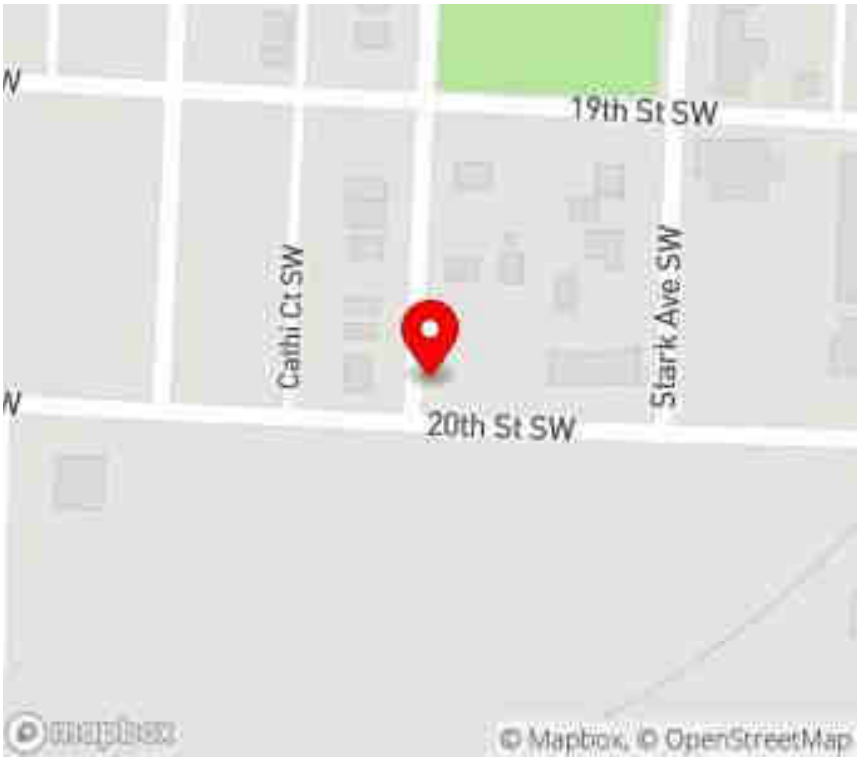
Sample Collection Data

Sample Photos		
Sampler Name	Kyle Lawrence	

Submitted By: ipad-01@enviroscienceinc.com

Sample Collection Data

Section 1

Project Name	Clark Ave Extension
Project Number	12898
Client Name	City of Canton
Date	09-01-2020
Time	11:35 AM (-4 GMT)
Media	Sub Surface Soil
Sample Type	Discrete Grab
Sample ID	TP3_090120_S5
Location / GPS	
	Lat: 40.7772948516915 Long: -81.3914900922618
Sample Location Description	N end of project area near intersection of Clark Ave and 20th St
Headspace Concentration (ppm)	1.00
Sample Description	Brown soil with mixed fill debris (rock). Brick and darker soil encountered at W end of excavation. Excavation 8ft long, 2ft wide, 5 deep going East-West. Target depth was 4.5ft. Sample depth 5ft. Sample contains asphalt like material

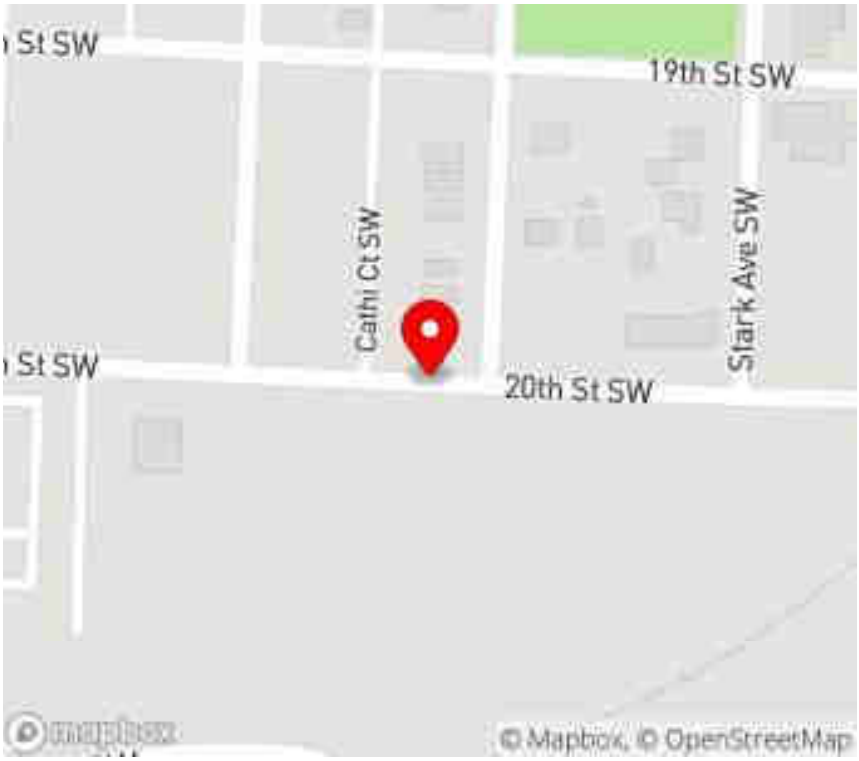
Sample Collection Data

Sample Photos				
Sampler Name	Kyle Lawrence			

Submitted By: ipad-01@enviroscienceinc.com

Sample Collection Data

Section 1

Project Name	Clark Ave Extension
Project Number	12898
Client Name	City of Canton
Date	09-01-2020
Time	12:20 PM (-4 GMT)
Media	Sub Surface Soil
Sample Type	Discrete Grab
Sample ID	TP4_090120_S4
Location / GPS	
	Lat: 40.7771746518728 Long: -81.3918210492212
Sample Location Description	Central part of project area. Located N of paved path
Headspace Concentration (ppm)	1.00
Sample Description	Brown mixed with dark soil with mixed fill debris (rock, brick and mortar) and asphalt like material. Excavation 10ft long, 2ft wide, 5.5 deep going East-West. Target depth was 5.5ft. Sample depth 4ft. Sample contains asphalt like material. Slight odor present
Observations	Odor Present

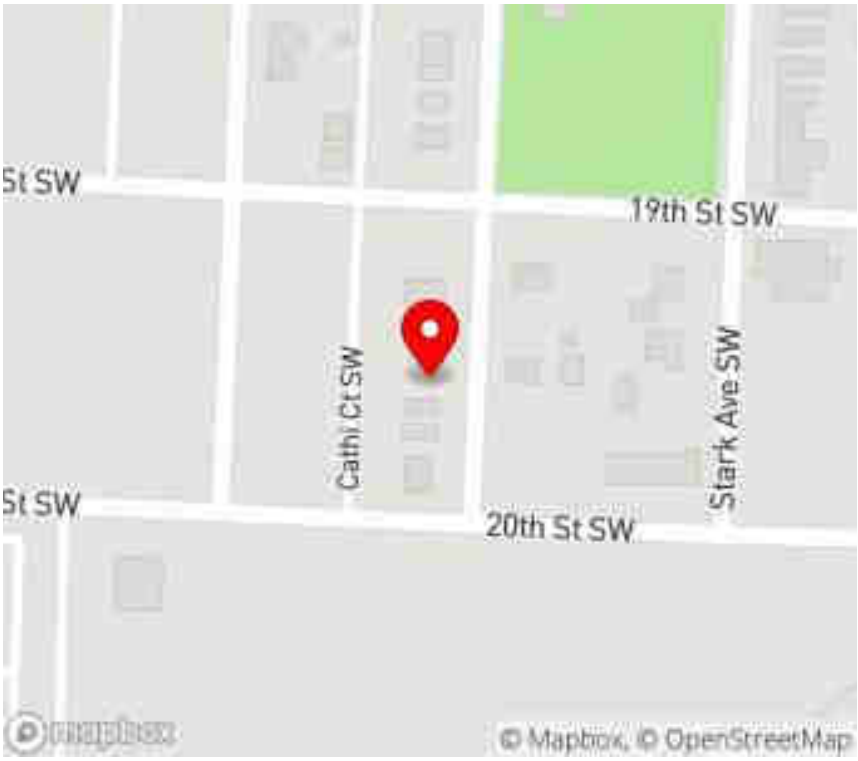
Sample Collection Data

Sample Photos		
Sampler Name	Kyle Lawrence	

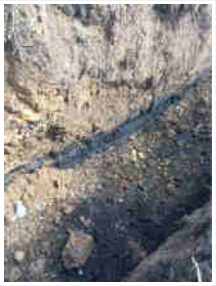
Submitted By: ipad-01@enviroscienceinc.com

Sample Collection Data

Section 1

Project Name	Clark Ave Extension
Project Number	12898
Client Name	City of Canton
Date	09-01-2020
Time	12:15 PM (-4 GMT)
Media	Sub Surface Soil
Sample Type	Discrete Grab
Sample ID	TP4_090120_S5
Location / GPS	
	Lat: 40.7776218335074 Long: -81.3917435548486
Sample Location Description	Near center of project area. N of paved path
Headspace Concentration (ppm)	1.00
Sample Description	Brown mixed with dark soil with mixed fill debris (rock, brick and mortar) and asphalt like material. Excavation 10ft long, 2ft wide, 5.5 deep going East-West. Target depth was 5.5ft. Sample depth 5ft. Sample contains asphalt like material. Slight odor present
Observations	Odor Present

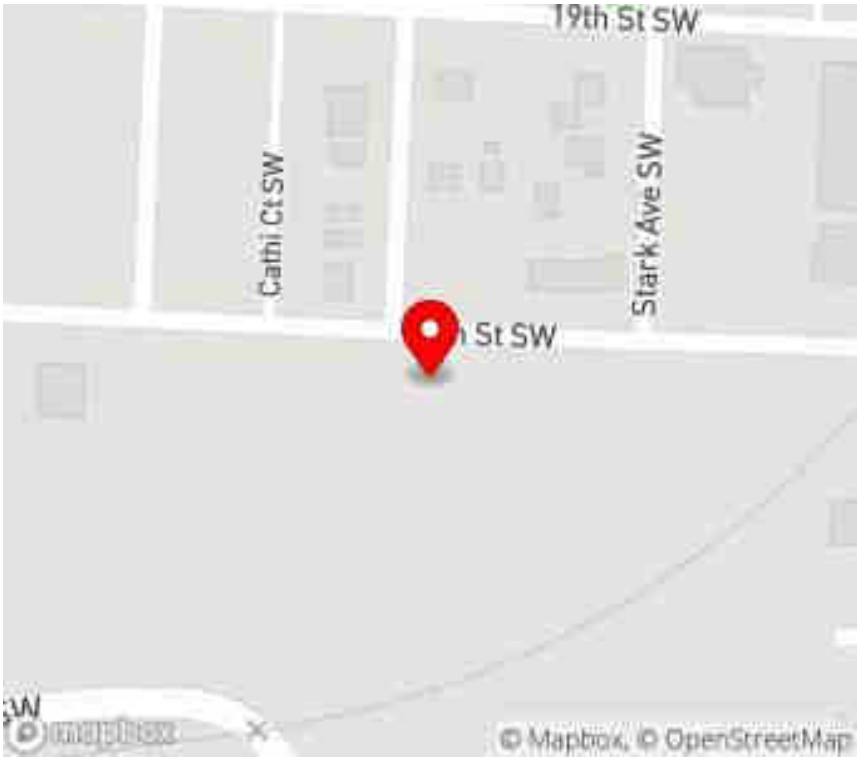
Sample Collection Data

Sample Photos				
				
Sampler Name	Kyle Lawrence			

Submitted By: ipad-01@enviroscienceinc.com

Sample Collection Data

Section 1

Project Name	Clark Ave Extension
Project Number	12898
Client Name	City of Canton
Date	09-01-2020
Time	01:10 PM (-4 GMT)
Media	Sub Surface Soil
Sample Type	Discrete Grab
Sample ID	TP5_090120_S3
Location / GPS	
	Lat: 40.7769958436313 Long: -81.3914084700926
Sample Location Description	Central part of project area, south of paved path
Headspace Concentration (ppm)	1.00
Sample Description	Brown mixed with dark soil with mixed fill debris (rock, gravel) and asphalt like material. Excavation 10ft long, 2ft wide, 5.5 deep going East-West. Target depth was 5.5ft. Sample depth 3ft. Sample contains asphalt like material.

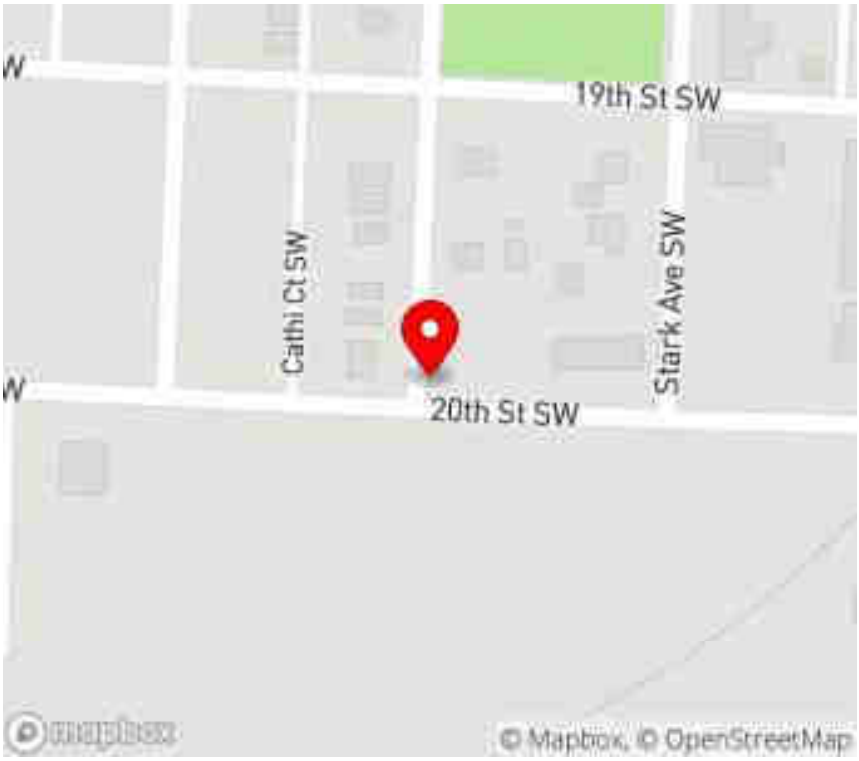
Sample Collection Data

Sample Photos		
Sampler Name	Kyle Lawrence	

Submitted By: ipad-01@enviroscienceinc.com

Sample Collection Data

Section 1

Project Name	Clark Ave Extension
Project Number	12898
Client Name	City of Canton
Date	09-01-2020
Time	01:05 PM (-4 GMT)
Media	Sub Surface Soil
Sample Type	Discrete Grab
Sample ID	TP5_090120_S5
Location / GPS	
	Lat: 40.7772486348241 Long: -81.3915059851852
Sample Location Description	Central part of project area. S of paved path
Headspace Concentration (ppm)	1.00
Sample Description	Brown mixed with dark soil with mixed fill debris (rock, gravel) and asphalt like material. Excavation 10ft long, 2ft wide, 5.5 deep going East-West. Target depth was 5.5ft. Sample depth 5ft. Sample contains asphalt like material. Duplicate sample collected here - TP5_090120_S5_DUP

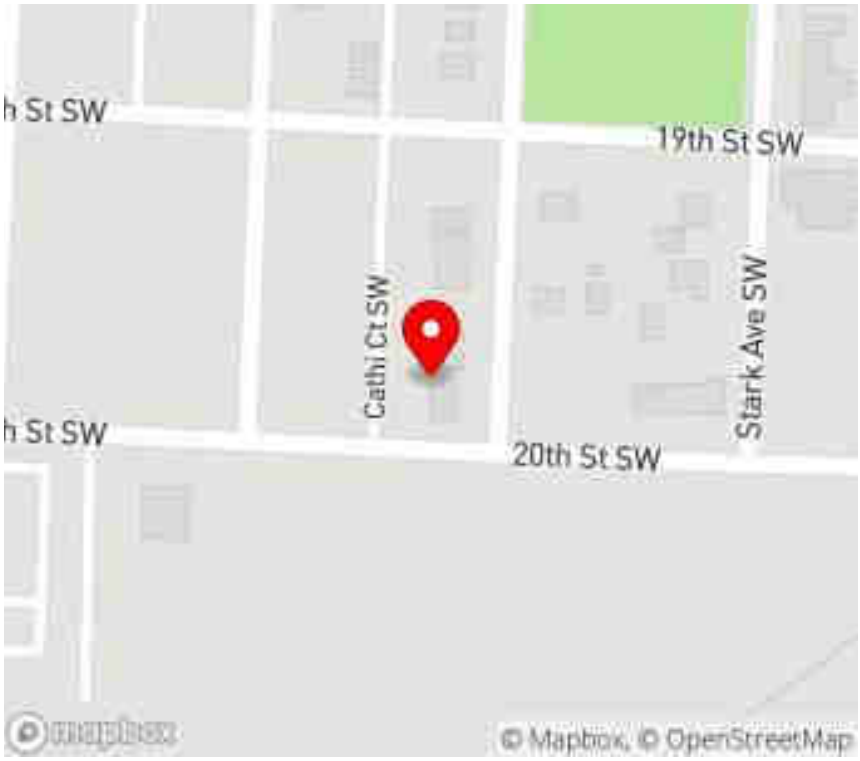
Sample Collection Data

Sample Photos				
				
Sampler Name	Kyle Lawrence			

Submitted By: ipad-01@enviroscienceinc.com

Sample Collection Data

Section 1

Project Name	Clark Ave Extension
Project Number	12898
Client Name	City of Canton
Date	09-02-2020
Time	09:35 AM (-4 GMT)
Media	Sub Surface Soil
Sample Type	Discrete Grab
Sample ID	TP6_090220_S4
Location / GPS	
	Lat: 40.7773925481353 Long: -81.39185140852
Sample Location Description	Central part project area, middle of paved path
Headspace Concentration (ppm)	1.00
Sample Description	Brown soil with mixed fill (rock and brick) and asphalt. Clay starts approximately 5ft deep. Asphalt layer starting at approximately 1.5ft, 3-4in thick. Size of excavation area: 10ft long, 2ft wide, 7ft deep in middle in a generally E-W direction. Target depth of 7ft. Sample collected at 4ft

Sample Collection Data

Sample Photos		
Sampler Name	Kyle Lawrence	

Submitted By: ipad-01@enviroscienceinc.com

Sample Collection Data

Section 1

Project Name	Clark Ave Extension
Project Number	12898
Client Name	City of Canton
Date	09-02-2020
Time	09:30 AM (-4 GMT)
Media	Sub Surface Soil
Sample Type	Discrete Grab
Sample ID	TP6_090220_S7
Location / GPS	
	Lat: 40.7774355647394 Long: -81.3915627227903
Sample Location Description	Central part of project area, middle of paved path
Headspace Concentration (ppm)	0.00
Sample Description	Brown soil with mixed fill (rock and brick) and asphalt. Clay starts approximately 5ft deep. Asphalt layer starting at approximately 1.5ft, 3-4in thick. Size of excavation area: 10ft long, 2ft wide, 7ft deep in middle in a generally E-W direction. Target depth of 7ft.

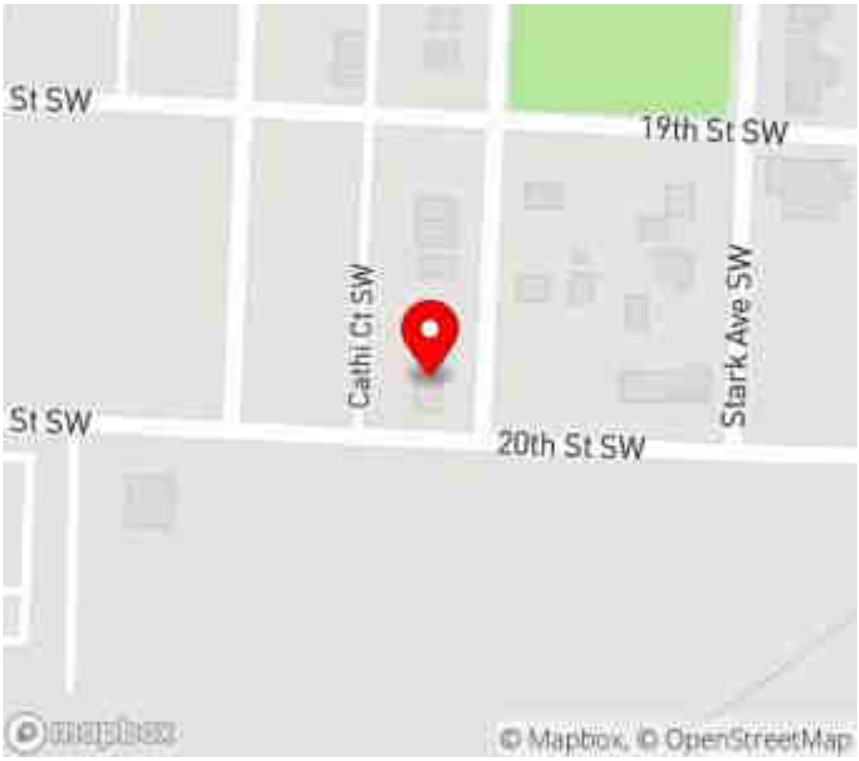
Sample Collection Data

Sample Photos	 	
Sampler Name	Kyle Lawrence	

Submitted By: ipad-01@enviroscienceinc.com

Sample Collection Data

Section 1

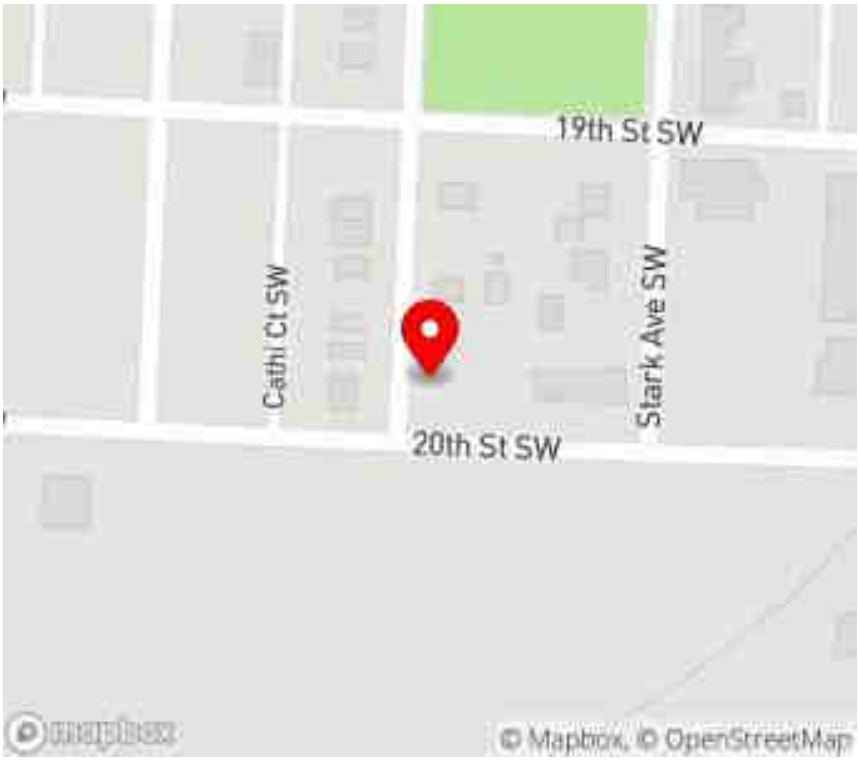
Project Name	Clark Ave Extension
Project Number	12898
Client Name	City of Canton
Date	09-02-2020
Time	10:20 AM (-4 GMT)
Media	Sub Surface Soil
Sample Type	Discrete Grab
Sample ID	TP7_090220_S1
Location / GPS	
	Lat: 40.7773566715129 Long: -81.3917899737234
Sample Location Description	Central part of project area, just north of southern paved path
Headspace Concentration (ppm)	0.00
Sample Description	Brown soil. Dense rock (slag-like) starts approximately 0.5-1ft deep. Unable to excavate through rock. Size of excavation area: 10ft long, 2ft wide, 1ft deep in a generally E-W direction. Target depth of 8ft. Sample collected at 1ft deep

Sample Collection Data

Sample Photos				
				
Sampler Name	Kyle Lawrence			

Sample Collection Data

Section 1

Project Name	Clark Ave Extension
Project Number	12898
Client Name	City of Canton
Date	09-02-2020
Time	10:30 AM (-4 GMT)
Media	Sub Surface Soil
Sample Type	Discrete Grab
Sample ID	TP8_090220_S1
Location / GPS	
	Lat: 40.7773581957548 Long: -81.3914276586956
Sample Location Description	Southern side of project area, just north where of rail crossing and TimkenSteel sign
Headspace Concentration (ppm)	0.00
Sample Description	Excavation encountered subsurface electrical line in conduit at approximately 0.5-1ft. Brown soil with mixed rock, excavated area is 8ft long, 2ft wide, 1ft deep. Target depth was 8ft but could not excavate further due to electric line. Sample collected from 1ft deep. TP8_090220_S1_MS and TP8_090220_S1_MS collected at this location at 1030

Sample Collection Data

Sample Photos				
Sampler Name	Kyle Lawrence			

Appendix E

Summary of Detected Constituents in Soil

Tables E-1, E-2, E-3

TABLE E-1

Volatile Organic Compounds (VOCs)

Analyte	Residential Direct Contact Standard (ug/Kg)	TP1_090120_S3 (ug/Kg)	TP1_090120_S5 (ug/Kg)	TP2_090120_S2 (ug/Kg)	TP2_090120_S4 (ug/Kg)	TP3_090120_S1 (ug/Kg)	TP3_090120_S5 (ug/Kg)	TP4_090120_S4 (ug/Kg)	TP4_090120_S5 (ug/Kg)	TP5_090120_S3 (ug/Kg)	TP5_090120_S5 (ug/Kg)	TP6_090220_S4 (ug/Kg)	TP6_090220_S7 (ug/Kg)	TP7_090220_S1 (ug/Kg)	TP8_090220_S1 (ug/Kg)
Acetone	110,000,000	<20	<21	<23	<21	<24	<23	87 *3	<21	<21	<21	34	80	<23	<24
Benzene	28,000	<0.67	<0.71	<0.76	<0.69	<0.79	<0.78	2.5 J *3	<0.69	<0.68	<0.69	<0.81	<0.90	<0.76	<0.79
Dichlorobromomethane	7,300	<0.65	<0.69	<0.74	<0.67	<0.77	<0.75	<0.83 *3	<0.68	<0.67	<0.67	<0.79	<0.88	<0.74	<0.77
Bromoform	460,000	<2.3	<2.4	<2.6	<2.4	<2.7	<2.7	<2.9 *3	<2.4	<2.4	<2.4	<2.8	<3.1	<2.6	<2.7
Bromomethane	17,000	<0.95	<1.0	<1.1	<0.97	<1.1	<1.1	<1.2 *3	<0.98	<0.97	<0.98	<1.1	<1.3	<1.1	<1.1
2-Butanone (MEK)	28,000,000	<3.4	<3.6	<3.9	<3.5	<4.0	<3.9	11 J *3	<3.5	<3.5	<3.5	5.0 J	16 J	<3.9	<4.0
Carbon disulfide	740,000	<1.1	<1.2	<1.3	<1.1	<1.3	<1.3	4.1 J *3	<1.2	<1.1	<1.2	<1.3	<1.5	<1.3	<1.3
Carbon tetrachloride	16,000	<3.1	<3.3	<3.5	<3.2	<3.7	<3.6	<4.0 *3	<3.2	<3.2	<3.2	<3.8	<4.2	<3.5	<3.7
Chlorobenzene	660,000	<0.88	<0.93	<0.99	<0.90	<1.0	<1.0	<1.1 *3	<0.91	<0.90	<0.91	<1.1	<1.2	<1.0	<1.0
Chloroethane	2,100,000	<1.2	<1.2	<1.3	<1.2	<1.4	<1.4	<1.5 *3	<1.2	<1.2	<1.2	<1.4	<1.6	<1.3	<1.4
Chloroform	7,900	<0.76	<0.80	<0.85	<0.78	<0.89	<0.88	<0.96 *3	<0.78	<0.77	<0.78	<0.91	<1.0	<0.86	<0.90
Chloromethane	280,000	<1.0	<1.1	<1.1	<1.0	<1.2	<1.2	<1.3 *3	<1.0	<1.0	<1.0	<1.2	<1.3	<1.1	<1.2
1,1-Dichloroethane	89,000	<0.67	<0.71	<0.75	<0.68	<0.78	<0.77	<0.85 *3	<0.69	<0.68	<0.69	<0.80	<0.89	<0.75	<0.79
1,2-Dichloroethane	11,000	<0.74	<0.79	<0.84	<0.76	<0.87	<0.86	<0.94 *3	<0.77	<0.76	<0.77	<0.89	<1.0	<0.84	<0.88
1,1-Dichloroethene	NE	<0.87	<0.92	<0.98	<0.89	<1.0	<1.0	<1.1 *3	<0.90	<0.88	<0.90	<1.0	<1.2	<0.98	<1.0
1,2-Dichloropropane	39,000	<0.82	<0.87	<0.92	<0.84	<0.96	<0.95	<1.0 *3	<0.85	<0.83	<0.84	<0.98	<1.1	<0.93	<0.97
cis-1,3-Dichloropropene	43000*	<1.4	<1.5	<1.6	<1.4	<1.6	<1.6	<1.8 *3	<1.4	<1.4	<1.4	<1.7	<1.9	<1.6	<1.6
trans-1,3-Dichloropropene	43000*	<0.99	<1.1	<1.1	<1.0	<1.2	<1.1	<1.3 *3	<1.0	<1.0	<1.0	<1.2	<1.3	<1.1	<1.2
Ethylbenzene	140,000	<1.0	<1.1	<1.1	<1.0	<1.2	<1.2	4.2 J *3	<1.0	<1.0	<1.0	<1.2	<1.4	<1.1	<1.2
2-Hexanone	NE	<3.9	<4.2	<4.4	<4.0	<4.6	<4.5	<5.0 *3	<4.1	<4.0	<4.1	<4.7	<5.3	<4.4	<4.6
Methylene Chloride	NE	<12	<12	<13	<12	<14	<13	<15 *3	<12	<12	<12	<14	<15	<13	<14
4-Methyl-2-pentanone (MIBK)	3,400,000	<3.6	<3.8	<4.0	<3.7	<4.2	<4.1	<4.5 *3 F1	<3.7	<3.6	<3.7	<4.3	<4.8	<4.0	<4.2
Styrene	870,000	<1.1	<1.2	<1.3	<1.1	<1.3	<1.3	<1.4 *3	<1.2	<1.1	<1.1	<1.3	<1.5	<1.3	<1.3
1,1,2,2-Tetrachloroethane	15,000	<1.4	<1.5	<1.5 *3	<1.4	<1.6	<1.6 *3	<1.7 *3 F1	<1.4 *3	<1.4 *3	<1.4 *3	<1.7	<1.8	<1.6	<1.6
Tetrachloroethene	170,000	<0.70	<0.74	<0.79	<0.72	<0.82	<0.81	<0.89 *3 F1	<0.73	<0.72	<0.72	<0.84	<0.94	<0.79	<0.83
Toluene	820,000	<0.74	<0.79	<0.84	<0.76	<0.87	<0.86	6.7 *3	<0.77	<0.76	<0.77	1.8 J	7.7	2.8 J	<0.88
Trichloroethene	10,000	<0.61	<0.65	<0.69	<0.62	<0.71	<0.70	<0.77 *3	<0.63	<0.62	<0.63	<0.73	<0.82	<0.69	<0.72
Vinyl chloride	1,300	<0.80	<0.85	<0.91	<0.83	<0.94	<0.93	<1.0 *3	<0.83	<0.82	<0.83	<0.97	<1.1	<0.91	<0.95
Xylenes, Total	260,000	<1.5	<1.6	<1.7	<1.6	<1.8	<1.8	5.3 J *3	<1.6	<1.6	<1.6	<1.8	<2.0	<1.7	<1.8
1,1,1-Trichloroethane	640,000	<0.79	<0.84	<0.89	<0.81	<0.92	<0.91	<1.0 *3	<0.82	<0.80	<0.81	<0.95	<1.1	<0.89	<0.93
1,1,2-Trichloroethane	28,000	<1.1	<1.2	<1.2	<1.1	<1.3	<1.3	<1.4 *3	<1.1	<1.1	<1.1	<1.3	<1.5	<1.2	<1.3
1,2-Dibromo-3-Chloropropane	370	<3.5	<3.7	<3.9 *3	<3.6	<4.1	<4.0 *3	<4.4 *3	<3.6 *3	<3.5 *3	<3.6 *3	<4.2	<4.7	<3.9	<4.1
Ethylene Dibromide	890	<0.74	<0.79	<0.83	<0.76	<0.87	<0.86	<0.94 *3	<0.77	<0.75	<0.76	<0.89	<0.99	<0.84	<0.87
Dichlorodifluoromethane	850,000	<0.91	<0.96	<1.0	<0.93	<1.1	<1.0	<1.2 *3	<0.94	<0.92	<0.94	<1.1	<1.2	<1.0	<1.1
cis-1,2-Dichloroethene	310,000	<0.63	<0.66	<0.71	<0.64	<0.73	<0.72	<0.80 *3	<0.65	<0.64	<0.65	<0.75	<0.84	<0.71	<0.74
trans-1,2-Dichloroethene	1,900,000	<0.45	<0.47	<0.50	<0.46	<0.52	<0.52	<0.57 *3	<0.46	<0.46	<0.46	<0.54	<0.60	<0.51	<0.53
Isopropylbenzene	270,000	<0.80	<0.85	<0.90	<0.82	<0.94	<0.92	1.5 J *3	<0.83	<0.82	<0.83	<0.96	<1.1	<0.91	<0.95
Methyl tert-butyl ether	1,100,000	<0.79	<0.84	<0.89	<0.81	<0.92	<0.91	<1.0 *3	<0.82	<0.80	<0.81	<0.95	<1.1	<0.89	<0.93
1,2,4-Trichlorobenzene	140,000	<0.55	<0.58	<0.62 *3	<0.56	<0.65	<0.64 *3	<0.70 *3	<0.57 *3	<0.56 *3	<0.57 *3	<0.66	<0.74	<0.62	<0.65
1,2-Dichlorobenzene	380,000	<1.1	<1.1	<1.2 *3	<1.1	<1.3	<1.2 *3	<1.4 *3	<1.1 *3	<1.1 *3	<1.1 *3	<1.3	<1.4	<1.2	<1.3
1,3-Dichlorobenzene	NE	<0.78	<0.83	<0.88 *3	<0.80	<0.92	<0.91 *3	<1.0 *3	<0.81 *3	<0.80 *3	<0.81 *3	<0.94	<1.1	<0.89	<0.93
1,4-Dichlorobenzene	65,000	<0.85	<0.90	<0.96 *3	<0.87	<0.99	<0.98 *3	<1.1 *3	<0.88 *3	<0.86 *3	<0.88 *3	<1.0	<1.1	<0.96	<1.0
Trichlorofluoromethane	1,200,000	<1.0	<1.1	<1.2	<1.1	<1.2	<1.2	<1.3 *3	<1.1	<1.1	<1.1	<1.2	<1.4	<1.2	<1.2
Chlorodibromomethane	130,000	<2.7	<2.8	<3.0	<2.7	<3.1	<3.1	<3.4 *3	<2.8	<2.7	<2.8	<3.2	<3.6	<3.0	<3.2

** standard is for total 1,3-dichloroethane*

NE - Not Established

J - Result is less than the RL but greater or equal to the MDL and the concentration is an approximate value.

F1 - MS and/or MSD recovery exceeds control limits

**3 - ISTD response or retention time outsie acceptable limits*

TABLE E-2

Polynuclear Aromatic Hydrocarbons (PAH)

Analyte	Residential Direct Contact Standard (ug/Kg)	TP1_090120_S3 (ug/Kg)	TP1_090120_S5 (ug/Kg)	TP2_090120_S2 (ug/Kg)	TP2_090120_S4 (ug/Kg)	TP3_090120_S1 (ug/Kg)	TP3_090120_S5 (ug/Kg)	TP4_090120_S4 (ug/Kg)	TP4_090120_S5 (ug/Kg)	TP5_090120_S3 (ug/Kg)	TP5_090120_S5 (ug/Kg)	TP6_090220_S4 (ug/Kg)	TP6_090220_S7 (ug/Kg)	TP7_090220_S1 (ug/Kg)	TP8_090220_S1 (ug/Kg)
Benzo[a]anthracene	23,000	550	230	520 F1	660	19	480	1500	1700	360	110	4.5 J	11 J	29	31
Benzo[a]pyrene	2,300	570	240	520 F1	730	35	500	1300	1800	320	120	<11	<12	31	41
Benzo[b]fluoranthene	23,000	710	310	630 F1	980	36	530	1400	3100	430	160	<7.8	13 J	48	64
Benzo[g,h,i]perylene	NE	250	150	300	450	88	290	730	790	250	110	<8.5	13 J	21	28
Benzo[k]fluoranthene	230,000	240	120	200	280	15 J	140	370	740	98	38	<8.3	<8.9	14 J	22
Anthracene	36,000,000	220	61	170 F1	250	<2.9	200	750 *3	180	140	33	<2.9	6.1 J	6.4 J	5.2 J
Chrysene	2,300,000	570	240	550 F1	690	30	490	1600	1700	360	100	4.1 J	11 J	35	48
Dibenz(a,h)anthracene	2,300	72	40	73 J	130	<8.3	<33	<86	290	<31	14 J	<8.3	<8.9	<7.8	<8.3
Fluoranthene	4,800,000	940	410	890 F1	1100	36	720	2100 *3	1400	460	240	7.5 J	15 J	43	54
Fluorene	4,800,000	140	26	120	130	<3.3	150	1400	130	130	21	<3.3	<3.5	<3.1	<3.3
Indeno[1,2,3-cd]pyrene	23,000	190	130	220	410	19	160	320	710	110	48	<8.8	<9.4	15 J	23
Phenanthrene	NE	1600	310	1600 F1	1300	36	2000	9300 *3	2200	1800	350	7.0 J	29	81	54
Pyrene	3,600,000	860	330	780 F1	990	38	670	2700	1200	510	180	6.3 J	23	44	53
Acenaphthene	7,200,000	140	25	120	120	<3.4	110	730	97	150	19	<3.4	<3.7	<3.2	<3.5
Acenaphthylene	NE	55	23	51 J	43	<4.8	68 J	370	130	89	16 J	<4.8	<5.1	<4.5	<4.8
Naphthalene	96,000	2300	120	2600	1800	27	4100	13000	2700	4100	440	5.1 J	25	88	60
NE - Not Established															
**3 - ISTD response or retention time outsie acceptable limits*															
J - Result is less than the RL but greater or equal to the MDL and the concentration is an approximate value.															
F1 - MS and/or MSD recovery exceeds control limits															

Polychlorinated Biphenyls (PCBs)

Analyte	Residential Direct Contact Standard (ug/Kg)	TP1_090120_S3 (ug/Kg)	TP1_090120_S5 (ug/Kg)	TP2_090120_S2 (ug/Kg)	TP2_090120_S4 (ug/Kg)	TP3_090120_S1 (ug/Kg)	TP3_090120_S5 (ug/Kg)	TP4_090120_S4 (ug/Kg)	TP4_090120_S5 (ug/Kg)	TP5_090120_S3 (ug/Kg)	TP5_090120_S5 (ug/Kg)	TP6_090220_S4 (ug/Kg)	TP6_090220_S7 (ug/Kg)	TP7_090220_S1 (ug/Kg)	TP8_090220_S1 (ug/Kg)
Aroclor-1016	8200	<26	<25	<24	<23	<27	<26	<27	<25	<25	<26	<26	<28	<26	<27
Aroclor-1221	3900	<28	<27	<26	<26	<29	<28	<30	<28	<27	<29	<29	<30	<28	<30
Aroclor-1232	3400	<27	<26	<25	<25	<28	<27	<28	<26	<26	<27	<28	<29	<27	<28
Aroclor-1242	4600	33 J	<21	<20	<20	<23	<22	<23	<22	<21	<23	<23	<24	32 J	24 J
Aroclor-1248	4500	<28	<27	39 J	<26	<29	<28	<30	<28	<27	<29	<29	<30	<28	<30
Aroclor-1254	2300	<27	<26	<25	<25	<28	<27	<28	<26	130	<27	<28	<29	<27	290
Aroclor-1260	4800	50 J	<25	33 J	49 J	<27	<26	<27	<25	<25	<26	<26	<28	<26	<27

J - Result is less than the RL but greater or equal to the MDL and the concentration is an approximate value.

Table E-3

Target Analyte List (TAL) Metals

Analyte	Residential Direct Contact Standard (mg/Kg)	TP1_090120_S3 (mg/Kg)	TP1_090120_S5 (mg/Kg)	TP2_090120_S2 (mg/Kg)	TP2_090120_S4 (mg/Kg)	TP3_090120_S1 (mg/Kg)	TP3_090120_S5 (mg/Kg)	TP4_090120_S4 (mg/Kg)	TP4_090120_S5 (mg/Kg)	TP5_090120_S3 (mg/Kg)	TP5_090120_S5 (mg/Kg)	TP6_090220_S4 (mg/Kg)	TP6_090220_S7 (mg/Kg)	TP7_090220_S1 (mg/Kg)	TP8_090220_S1 (mg/Kg)
Barium	30000	88	110	67	83	100	52	110	130	110	76	49	140	110	140 F1
Cadmium	140	0.54	0.21	0.29	0.43	0.38	0.31	0.13 J	0.3	0.31	0.33	0.16 J	0.12 J	0.26	0.32
Chromium	NE	22	10	29	39	48	21	11	23	22	33	12	7.6	21	27 F2
Silver	780	<0.090	<0.087	<0.069	<0.072	<0.080	<0.065	<0.094	<0.074	<0.082	<0.070	<0.086	<0.097	<0.084	<0.078
Arsenic*	14	**33**	12	**42**	**16**	10	**18**	**25**	**20**	**15**	11	**19**	11	14	12
Lead	400	37	160	36	32	18	22	40	63	58	21	18	11	21	27
Selenium	780	0.95 J	<0.50	0.63 J	<0.42	0.56 J	0.63 J	3.4	4.2 J	1.0 J	<0.40	<0.50	0.73 J	<0.48	<0.45
Nickel	3100	39	18	33	25	37	27	13	20	24	27	18	10	17	21 F2
Antimony	63	0.44 J	<0.38	0.69 J	0.33 J	<0.36	0.49 J	0.63 J	1.4	<0.36	<0.31	<0.38	<0.43	<0.37	<0.35 F1
Sodium	NE	180 J	<67	89 J	73 J	<62	84 J	470 J	450 J	150 J	54 J	<67	<75	110 J	150 J
Potassium	NE	640	520 J	450	550	760	850	270 J	750	630	640	710	420 J	740	830
Beryllium	310	0.77	0.38 J	0.52	0.56	0.58	0.59	1.2	1.1	1	0.63	0.40 J	0.21 J	0.92	0.92
Thallium	NE	<0.44	<0.43	<0.34	<0.35	<0.39	<0.32	1.4	<1.8	<0.40	<0.34	<0.42	<0.48	<0.41	<0.38
Calcium	NE	46000	4100	30000	29000	5000	21000	5300	21000	43000	18000	1200	990	46000	74000
Iron	NE	22000 ^	23000 ^	20000 ^	22000 ^	24000 ^	16000 ^	19000 ^	24000 ^	17000 ^	20000 ^	24000	21000	16000	15000 F2
Vanadium	620	15	13	12	16	25	12	14	13	15	18	20	12	19	17
Magnesium	NE	6600	1400	6300	3200	2100	2200	310 J	3700	6300	3500	1800	1200	7600	11000 F2 F1
Copper	6300	21	21	22	18	26	25	13	98	15	22	20	15	11	13
Aluminum	NE	6800	6100	4200	5200	9800	5200	1800	7100	6900	7400	10000	5000	9100	9100
Zinc	47000	760	82	91	100	90	120	26	84	69	78	70	46	59	77
Manganese	3600	740	640	500	770	720	340	99	970	890	790	210	290	1100	1300 F2
Cobalt	47	7.4	6.5	10	6.1	10	9.3	1.7	5.3	6.2	8.5	5.3	9.2	7.6	6.9
Mercury	3.1	0.18	0.032 J	0.091 J	0.083 J	0.066 J	0.14	0.36	0.093 J	0.075 J	0.063 J	0.047 J	0.049 J	0.040 J	0.033 J

Bold values exceed screening criteria

* Arsenic commercial/industrial direct contact standard is 100 mg/kg and Arsenic commercial land use with high frequency child exposure is 46 mg/kg.

J - Result is less than the RL but greater or equal to the MDL and the concentration is an approximate value.

^ - Instrument related QC is outside acceptance limits

Appendix F

Laboratory Analytical Report and
Chain of Custody Documentation

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

Laboratory Job ID: 240-135906-1
Client Project/Site: Clark Ave Extension
Revision: 2

For:
EnviroScience Inc
5070 Stow Rd.
Stow, Ohio 44224

Attn: Kyle Lawrence

Authorized for release by:
10/5/2020 1:17:35 PM

Leslie Howell, Project Manager I
(330)966-9266
Leslie.Howell@Eurofinset.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*3	ISTD response or retention time outside acceptable limits.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate recovery exceeds control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
*3	ISTD response or retention time outside acceptable limits.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate recovery exceeds control limits

Metals

Qualifier	Qualifier Description
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
F3	Duplicate RPD exceeds the control limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 240-135906-1

Laboratory: Eurofins TestAmerica, Canton

Narrative

Job Narrative
240-135906-1
REVISED

Comments
Revised report 10/5/2020: revised report has been provided to adjust the metals list to TCL list.

Revised report 9/30/2020: revised report has been provided to adjust the sample ID to TP5_090120_S3. The analyte lists for all samples now match as well.

No additional comments.

Receipt
The samples were received on 9/1/2020 2:00 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 5.4º C.

GC/MS VOA
Method 8260B: The continuing calibration verification (CCV) associated with batch 240-450099 recovered above the upper control limit for 1,1-Dichloroethene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: TP1_090120_S5 (240-135906-1), TP2_090120_S4 (240-135906-3), TP2_090120_S2 (240-135906-4), TP3_090120_S1 (240-135906-5), TP3_090120_S5 (240-135906-6), TP4_090120_S5 (240-135906-8), TP5_090120_S5 (240-135906-9), (CCV 240-450099/4), (CCVIS 240-450099/3), (LCS 240-450099/5), (LCS 240-450099/6), (MB 240-450099/8), (240-135906-B-6-C MS) and (240-135906-B-6-D MSD).

Method 8260B: Internal standard (ISTD) response for the following samples were outside control limits: TP2_090120_S2 (240-135906-4), TP3_090120_S5 (240-135906-6), TP4_090120_S5 (240-135906-8), TP5_090120_S5 (240-135906-9), (240-135906-B-6-C MS) and (240-135906-B-6-D MSD). The sample was re-extracted and/or re-analyzed and ISTD response was outside control limits.

Method 8260B: Surrogate recovery for the following samples were outside control limits: (240-135906-B-6-C MS) and (240-135906-B-6-D MSD). Re-extraction and/or re-analysis was performed and surrogate recovery was outside control limits.

Method 8260B: Internal standard (ISTD) response for the following samples were outside control limits: TP4_090120_S4 (240-135906-7), TPS_090120_S3 (240-135906-10), (240-135906-B-7-D MS) and (240-135906-B-7-E MSD). The samples were re-extracted and/or re-analyzed and ISTD response was outside control limits.

Method 8260B: Surrogate recovery for the following samples were outside control limits: TP4_090120_S4 (240-135906-7), (240-135906-B-7-D MS) and (240-135906-B-7-E MSD). Re-extraction and/or re-analysis was performed and surrogate recovery was outside control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270C: The following samples were diluted due to the nature of the sample matrix: TP2_090120_S2 (240-135906-4), (240-135906-C-4-E MS) and (240-135906-C-4-F MSD). Elevated reporting limits (RLs) are provided.

Method 8270C: Internal standard responses were outside of acceptance limits for the following sample: TP4_090120_S4 (240-135906-7). The sample shows evidence of matrix interference.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method 8082: The Aroclors in the continuing calibration verification (CCV) met criteria; however, the Decachlorobiphenyl surrogate failed to meet criteria at 15.3%. Surrogate recoveries for all samples were within control limits. After careful evaluation the data is reported for (CCVIS 240-450262/28).

Job ID: 240-135906-1 (Continued)

Laboratory: Eurofins TestAmerica, Canton (Continued)

Method 8082: Surrogate recovery for the following samples was outside the upper control limit: TP1_090120_S5 (240-135906-1), TP3_090120_S1 (240-135906-5), TP5_090120_S5 (240-135906-9) and TP5_090120_S5_DUP (240-135906-11). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8082: The following samples required a copper clean-up to reduce matrix interferences caused by sulfur: TP1_090120_S3 (240-135906-2), TP2_090120_S4 (240-135906-3), TP2_090120_S2 (240-135906-4) and TP5_090120_S3 (240-135906-10).

Method 8082: The following samples appears to contain polychlorinated biphenyls (PCBs); however, due to weathering, other environmental processes and/or contributions from the presence of multiple Aroclors, resulting in overlapping PCB patterns, the PCBs in the samples do not directly match any of the laboratory's Aroclor standards used for instrument calibration: TP1_090120_S3 (240-135906-2), TP2_090120_S4 (240-135906-3), TP2_090120_S2 (240-135906-4) and TP5_090120_S3 (240-135906-10). The samples have been quantified and reported using the best overall Aroclor/standard pattern match.

Method 8082: The following sample required a copper clean-up to reduce matrix interferences caused by sulfur: TP1_090120_S3 (240-135906-2).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Methods 6010B, 6010C: The following sample was diluted due to the nature of the sample matrix: TP4_090120_S5 (240-135906-8). Elevated reporting limits (RLs) are provided.

Methods 6010B, 6010C: The continuing calibration blank (CCB) for 240-450107 contained iron above the reporting limit (RL). Associated sample(s) were not or re-analyzed because results were greater than 10X the value found in the CCB.TP1_090120_S5 (240-135906-1), TP1_090120_S3 (240-135906-2), TP2_090120_S4 (240-135906-3), TP2_090120_S2 (240-135906-4), TP3_090120_S1 (240-135906-5), TP3_090120_S5 (240-135906-6), TP4_090120_S4 (240-135906-7), TP4_090120_S5 (240-135906-8), TP5_090120_S5 (240-135906-9), TP5_090120_S3 (240-135906-10) and TP5_090120_S5_DUP (240-135906-11)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Method Summary

Client: EnviroScience Inc
Project/Site: Clark Ave Extension

Job ID: 240-135906-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CAN
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CAN
6010B	Metals (ICP)	SW846	TAL CAN
7471A	Mercury (CVAA)	SW846	TAL CAN
Moisture	Percent Moisture	EPA	TAL CAN
3050B	Preparation, Metals	SW846	TAL CAN
3540C	Soxhlet Extraction	SW846	TAL CAN
5030A	Purge and Trap	SW846	TAL CAN
7471A	Preparation, Mercury	SW846	TAL CAN

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: EnviroScience Inc
Project/Site: Clark Ave Extension

Job ID: 240-135906-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
240-135906-1	TP1_090120_S5	Solid	09/01/20 10:15	09/01/20 14:00	
240-135906-2	TP1_090120_S3	Solid	09/01/20 10:20	09/01/20 14:00	
240-135906-3	TP2_090120_S4	Solid	09/01/20 11:00	09/01/20 14:00	
240-135906-4	TP2_090120_S2	Solid	09/01/20 11:05	09/01/20 14:00	
240-135906-5	TP3_090120_S1	Solid	09/01/20 11:40	09/01/20 14:00	
240-135906-6	TP3_090120_S5	Solid	09/01/20 11:35	09/01/20 14:00	
240-135906-7	TP4_090120_S4	Solid	09/01/20 12:20	09/01/20 14:00	
240-135906-8	TP4_090120_S5	Solid	09/01/20 12:15	09/01/20 14:00	
240-135906-9	TP5_090120_S5	Solid	09/01/20 13:05	09/01/20 14:00	
240-135906-10	TP5_090120_S3	Solid	09/01/20 13:10	09/01/20 14:00	
240-135906-11	TP5_090120_S5_DUP	Solid	09/01/20 13:05	09/01/20 14:00	
240-135927-1	TP6_090220_S7	Solid	09/02/20 09:30	09/02/20 11:30	
240-135927-2	TP6_090220_S4	Solid	09/02/20 09:35	09/02/20 11:30	
240-135927-3	TP7_090220_S1	Solid	09/02/20 10:20	09/02/20 11:30	
240-135927-4	TP8_090220_S1	Solid	09/02/20 10:30	09/02/20 11:30	

Detection Summary

Client: EnviroScience Inc
Project/Site: Clark Ave Extension

Job ID: 240-135906-1

Client Sample ID: TP1_090120_S5 — Lab Sample ID: 240-135906-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	230		17	4.0	ug/Kg	1	☼	8270C	Total/NA
Benzo[a]pyrene	240		17	11	ug/Kg	1	☼	8270C	Total/NA
Benzo[b]fluoranthene	310		17	7.6	ug/Kg	1	☼	8270C	Total/NA
Benzo[g,h,i]perylene	150		17	8.3	ug/Kg	1	☼	8270C	Total/NA
Benzo[k]fluoranthene	120		17	8.1	ug/Kg	1	☼	8270C	Total/NA
Anthracene	61		17	2.8	ug/Kg	1	☼	8270C	Total/NA
Chrysene	240		17	1.7	ug/Kg	1	☼	8270C	Total/NA
Dibenz(a,h)anthracene	40		17	8.0	ug/Kg	1	☼	8270C	Total/NA
Fluoranthene	410		17	5.2	ug/Kg	1	☼	8270C	Total/NA
Fluorene	26		17	3.2	ug/Kg	1	☼	8270C	Total/NA
Indeno[1,2,3-cd]pyrene	130		17	8.6	ug/Kg	1	☼	8270C	Total/NA
Phenanthrene	310		17	2.6	ug/Kg	1	☼	8270C	Total/NA
Pyrene	330		17	2.5	ug/Kg	1	☼	8270C	Total/NA
Acenaphthene	25		17	3.3	ug/Kg	1	☼	8270C	Total/NA
Acenaphthylene	23		17	4.7	ug/Kg	1	☼	8270C	Total/NA
Naphthalene	120		17	2.8	ug/Kg	1	☼	8270C	Total/NA
Barium	110		21	0.39	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.21		0.21	0.051	mg/Kg	1	☼	6010B	Total/NA
Chromium	10		0.53	0.16	mg/Kg	1	☼	6010B	Total/NA
Arsenic	12		1.1	0.34	mg/Kg	1	☼	6010B	Total/NA
Lead	160		1.1	0.30	mg/Kg	1	☼	6010B	Total/NA
Nickel	18		4.3	0.25	mg/Kg	1	☼	6010B	Total/NA
Potassium	520	J	530	39	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.38	J	0.53	0.058	mg/Kg	1	☼	6010B	Total/NA
Calcium	4100		530	39	mg/Kg	1	☼	6010B	Total/NA
Iron	23000	^	11	7.4	mg/Kg	1	☼	6010B	Total/NA
Vanadium	13		5.3	0.88	mg/Kg	1	☼	6010B	Total/NA
Magnesium	1400		530	49	mg/Kg	1	☼	6010B	Total/NA
Copper	21		2.7	0.25	mg/Kg	1	☼	6010B	Total/NA
Aluminum	6100		21	5.7	mg/Kg	1	☼	6010B	Total/NA
Zinc	82		5.3	1.5	mg/Kg	1	☼	6010B	Total/NA
Manganese	640		1.6	0.33	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.5		1.1	0.21	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.032	J	0.11	0.019	mg/Kg	1	☼	7471A	Total/NA

Client Sample ID: TP1_090120_S3 — Lab Sample ID: 240-135906-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	550		43	9.7	ug/Kg	2.5	☼	8270C	Total/NA
Benzo[a]pyrene	570		43	27	ug/Kg	2.5	☼	8270C	Total/NA
Benzo[b]fluoranthene	710		43	19	ug/Kg	2.5	☼	8270C	Total/NA
Benzo[g,h,i]perylene	250		43	20	ug/Kg	2.5	☼	8270C	Total/NA
Benzo[k]fluoranthene	240		43	20	ug/Kg	2.5	☼	8270C	Total/NA
Anthracene	220		43	6.9	ug/Kg	2.5	☼	8270C	Total/NA
Chrysene	570		43	4.3	ug/Kg	2.5	☼	8270C	Total/NA
Dibenz(a,h)anthracene	72		43	20	ug/Kg	2.5	☼	8270C	Total/NA
Fluoranthene	940		43	13	ug/Kg	2.5	☼	8270C	Total/NA
Fluorene	140		43	7.8	ug/Kg	2.5	☼	8270C	Total/NA
Indeno[1,2,3-cd]pyrene	190		43	21	ug/Kg	2.5	☼	8270C	Total/NA
Phenanthrene	1600		43	6.4	ug/Kg	2.5	☼	8270C	Total/NA
Pyrene	860		43	6.1	ug/Kg	2.5	☼	8270C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: TP1_090120_S3 (Continued) — Lab Sample ID: 240-135906-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	140		43	8.2	ug/Kg	2.5	☼	8270C	Total/NA
Acenaphthylene	55		43	11	ug/Kg	2.5	☼	8270C	Total/NA
Naphthalene	2300		43	6.9	ug/Kg	2.5	☼	8270C	Total/NA
Aroclor-1242	33	J	58	22	ug/Kg	1	☼	8082	Total/NA
Aroclor-1260	50	J	58	26	ug/Kg	1	☼	8082	Total/NA
Barium	88		22	0.40	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.54		0.22	0.053	mg/Kg	1	☼	6010B	Total/NA
Chromium	22		0.55	0.17	mg/Kg	1	☼	6010B	Total/NA
Arsenic	33		1.1	0.35	mg/Kg	1	☼	6010B	Total/NA
Lead	37		1.1	0.31	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.95	J	1.7	0.52	mg/Kg	1	☼	6010B	Total/NA
Nickel	39		4.4	0.26	mg/Kg	1	☼	6010B	Total/NA
Antimony	0.44	J	1.1	0.40	mg/Kg	1	☼	6010B	Total/NA
Sodium	180	J	550	70	mg/Kg	1	☼	6010B	Total/NA
Potassium	640		550	40	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.77		0.55	0.060	mg/Kg	1	☼	6010B	Total/NA
Calcium	46000		550	40	mg/Kg	1	☼	6010B	Total/NA
Iron	22000	^	11	7.7	mg/Kg	1	☼	6010B	Total/NA
Vanadium	15		5.5	0.91	mg/Kg	1	☼	6010B	Total/NA
Magnesium	6600		550	51	mg/Kg	1	☼	6010B	Total/NA
Copper	21		2.8	0.26	mg/Kg	1	☼	6010B	Total/NA
Aluminum	6800		22	5.9	mg/Kg	1	☼	6010B	Total/NA
Zinc	760		5.5	1.5	mg/Kg	1	☼	6010B	Total/NA
Manganese	740		1.7	0.34	mg/Kg	1	☼	6010B	Total/NA
Cobalt	7.4		1.1	0.22	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.18		0.11	0.020	mg/Kg	1	☼	7471A	Total/NA

Client Sample ID: TP2_090120_S4 — Lab Sample ID: 240-135906-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	660		33	7.6	ug/Kg	2	☼	8270C	Total/NA
Benzo[a]pyrene	730		33	21	ug/Kg	2	☼	8270C	Total/NA
Benzo[b]fluoranthene	980		33	14	ug/Kg	2	☼	8270C	Total/NA
Benzo[g,h,i]perylene	450		33	16	ug/Kg	2	☼	8270C	Total/NA
Benzo[k]fluoranthene	280		33	15	ug/Kg	2	☼	8270C	Total/NA
Anthracene	250		33	5.4	ug/Kg	2	☼	8270C	Total/NA
Chrysene	690		33	3.3	ug/Kg	2	☼	8270C	Total/NA
Dibenz(a,h)anthracene	130		33	15	ug/Kg	2	☼	8270C	Total/NA
Fluoranthene	1100		33	9.9	ug/Kg	2	☼	8270C	Total/NA
Fluorene	130		33	6.1	ug/Kg	2	☼	8270C	Total/NA
Indeno[1,2,3-cd]pyrene	410		33	16	ug/Kg	2	☼	8270C	Total/NA
Phenanthrene	1300		33	5.0	ug/Kg	2	☼	8270C	Total/NA
Pyrene	990		33	4.8	ug/Kg	2	☼	8270C	Total/NA
Acenaphthene	120		33	6.4	ug/Kg	2	☼	8270C	Total/NA
Acenaphthylene	43		33	8.9	ug/Kg	2	☼	8270C	Total/NA
Naphthalene	1800		33	5.4	ug/Kg	2	☼	8270C	Total/NA
Aroclor-1260	49	J	53	23	ug/Kg	1	☼	8082	Total/NA
Barium	83		18	0.32	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.43		0.18	0.043	mg/Kg	1	☼	6010B	Total/NA
Chromium	39		0.44	0.13	mg/Kg	1	☼	6010B	Total/NA
Arsenic	16		0.89	0.28	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: TP2_090120_S4 (Continued) — Lab Sample ID: 240-135906-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	32		0.89	0.25	mg/Kg	1	☼	6010B	Total/NA
Nickel	25		3.6	0.21	mg/Kg	1	☼	6010B	Total/NA
Antimony	0.33	J	0.89	0.32	mg/Kg	1	☼	6010B	Total/NA
Sodium	73	J	440	56	mg/Kg	1	☼	6010B	Total/NA
Potassium	550		440	32	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.56		0.44	0.048	mg/Kg	1	☼	6010B	Total/NA
Calcium	29000		440	32	mg/Kg	1	☼	6010B	Total/NA
Iron	22000	^	8.9	6.2	mg/Kg	1	☼	6010B	Total/NA
Vanadium	16		4.4	0.73	mg/Kg	1	☼	6010B	Total/NA
Magnesium	3200		440	41	mg/Kg	1	☼	6010B	Total/NA
Copper	18		2.2	0.21	mg/Kg	1	☼	6010B	Total/NA
Aluminum	5200		18	4.7	mg/Kg	1	☼	6010B	Total/NA
Zinc	100		4.4	1.2	mg/Kg	1	☼	6010B	Total/NA
Manganese	770		1.3	0.27	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.1		0.89	0.18	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.083	J	0.13	0.023	mg/Kg	1	☼	7471A	Total/NA

Client Sample ID: TP2_090120_S2 — Lab Sample ID: 240-135906-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	520	F1	82	19	ug/Kg	5	☼	8270C	Total/NA
Benzo[a]pyrene	520	F1	82	51	ug/Kg	5	☼	8270C	Total/NA
Benzo[b]fluoranthene	630	F1	82	35	ug/Kg	5	☼	8270C	Total/NA
Benzo[g,h,i]perylene	300		82	39	ug/Kg	5	☼	8270C	Total/NA
Benzo[k]fluoranthene	200		82	38	ug/Kg	5	☼	8270C	Total/NA
Anthracene	170	F1	82	13	ug/Kg	5	☼	8270C	Total/NA
Chrysene	550	F1	82	8.1	ug/Kg	5	☼	8270C	Total/NA
Dibenz(a,h)anthracene	73	J	82	38	ug/Kg	5	☼	8270C	Total/NA
Fluoranthene	890	F1	82	24	ug/Kg	5	☼	8270C	Total/NA
Fluorene	120		82	15	ug/Kg	5	☼	8270C	Total/NA
Indeno[1,2,3-cd]pyrene	220		82	40	ug/Kg	5	☼	8270C	Total/NA
Phenanthrene	1600	F1	82	12	ug/Kg	5	☼	8270C	Total/NA
Pyrene	780	F1	82	12	ug/Kg	5	☼	8270C	Total/NA
Acenaphthene	120		82	16	ug/Kg	5	☼	8270C	Total/NA
Acenaphthylene	51	J	82	22	ug/Kg	5	☼	8270C	Total/NA
Naphthalene	2600		82	13	ug/Kg	5	☼	8270C	Total/NA
Aroclor-1248	39	J	54	26	ug/Kg	1	☼	8082	Total/NA
Aroclor-1260	33	J	54	24	ug/Kg	1	☼	8082	Total/NA
Barium	67		17	0.31	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.29		0.17	0.041	mg/Kg	1	☼	6010B	Total/NA
Chromium	29		0.42	0.13	mg/Kg	1	☼	6010B	Total/NA
Arsenic	42		0.85	0.27	mg/Kg	1	☼	6010B	Total/NA
Lead	36		0.85	0.24	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.63	J	1.3	0.40	mg/Kg	1	☼	6010B	Total/NA
Nickel	33		3.4	0.20	mg/Kg	1	☼	6010B	Total/NA
Antimony	0.69	J	0.85	0.31	mg/Kg	1	☼	6010B	Total/NA
Sodium	89	J	420	53	mg/Kg	1	☼	6010B	Total/NA
Potassium	450		420	31	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.52		0.42	0.046	mg/Kg	1	☼	6010B	Total/NA
Calcium	30000		420	31	mg/Kg	1	☼	6010B	Total/NA
Iron	20000	^	8.5	5.9	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: TP2_090120_S2 (Continued) — Lab Sample ID: 240-135906-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	12		4.2	0.70	mg/Kg	1	☼	6010B	Total/NA
Magnesium	6300		420	39	mg/Kg	1	☼	6010B	Total/NA
Copper	22		2.1	0.20	mg/Kg	1	☼	6010B	Total/NA
Aluminum	4200		17	4.5	mg/Kg	1	☼	6010B	Total/NA
Zinc	91		4.2	1.2	mg/Kg	1	☼	6010B	Total/NA
Manganese	500		1.3	0.26	mg/Kg	1	☼	6010B	Total/NA
Cobalt	10		0.85	0.17	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.091	J	0.10	0.018	mg/Kg	1	☼	7471A	Total/NA

Client Sample ID: TP3_090120_S1 — Lab Sample ID: 240-135906-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	19		18	4.1	ug/Kg	1	☼	8270C	Total/NA
Benzo[a]pyrene	35		18	11	ug/Kg	1	☼	8270C	Total/NA
Benzo[b]fluoranthene	36		18	7.8	ug/Kg	1	☼	8270C	Total/NA
Benzo[g,h,i]perylene	88		18	8.5	ug/Kg	1	☼	8270C	Total/NA
Benzo[k]fluoranthene	15	J	18	8.3	ug/Kg	1	☼	8270C	Total/NA
Chrysene	30		18	1.8	ug/Kg	1	☼	8270C	Total/NA
Fluoranthene	36		18	5.3	ug/Kg	1	☼	8270C	Total/NA
Indeno[1,2,3-cd]pyrene	19		18	8.8	ug/Kg	1	☼	8270C	Total/NA
Phenanthrene	36		18	2.7	ug/Kg	1	☼	8270C	Total/NA
Pyrene	38		18	2.6	ug/Kg	1	☼	8270C	Total/NA
Naphthalene	27		18	2.9	ug/Kg	1	☼	8270C	Total/NA
Barium	100		20	0.36	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.38		0.20	0.047	mg/Kg	1	☼	6010B	Total/NA
Chromium	48		0.49	0.15	mg/Kg	1	☼	6010B	Total/NA
Arsenic	10		0.99	0.31	mg/Kg	1	☼	6010B	Total/NA
Lead	18		0.99	0.28	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.56	J	1.5	0.46	mg/Kg	1	☼	6010B	Total/NA
Nickel	37		4.0	0.23	mg/Kg	1	☼	6010B	Total/NA
Potassium	760		490	36	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.58		0.49	0.053	mg/Kg	1	☼	6010B	Total/NA
Calcium	5000		490	36	mg/Kg	1	☼	6010B	Total/NA
Iron	24000	^	9.9	6.9	mg/Kg	1	☼	6010B	Total/NA
Vanadium	25		4.9	0.81	mg/Kg	1	☼	6010B	Total/NA
Magnesium	2100		490	46	mg/Kg	1	☼	6010B	Total/NA
Copper	26		2.5	0.23	mg/Kg	1	☼	6010B	Total/NA
Aluminum	9800		20	5.3	mg/Kg	1	☼	6010B	Total/NA
Zinc	90		4.9	1.4	mg/Kg	1	☼	6010B	Total/NA
Manganese	720		1.5	0.31	mg/Kg	1	☼	6010B	Total/NA
Cobalt	10		0.99	0.20	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.066	J	0.14	0.025	mg/Kg	1	☼	7471A	Total/NA

Client Sample ID: TP3_090120_S5 — Lab Sample ID: 240-135906-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	480		72	16	ug/Kg	4	☼	8270C	Total/NA
Benzo[a]pyrene	500		72	45	ug/Kg	4	☼	8270C	Total/NA
Benzo[b]fluoranthene	530		72	31	ug/Kg	4	☼	8270C	Total/NA
Benzo[g,h,i]perylene	290		72	34	ug/Kg	4	☼	8270C	Total/NA
Benzo[k]fluoranthene	140		72	33	ug/Kg	4	☼	8270C	Total/NA
Anthracene	200		72	12	ug/Kg	4	☼	8270C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: TP3_090120_S5 (Continued) — Lab Sample ID: 240-135906-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chrysene	490		72	7.1	ug/Kg	4	☼	8270C	Total/NA
Fluoranthene	720		72	21	ug/Kg	4	☼	8270C	Total/NA
Fluorene	150		72	13	ug/Kg	4	☼	8270C	Total/NA
Indeno[1,2,3-cd]pyrene	160		72	35	ug/Kg	4	☼	8270C	Total/NA
Phenanthrene	2000		72	11	ug/Kg	4	☼	8270C	Total/NA
Pyrene	670		72	10	ug/Kg	4	☼	8270C	Total/NA
Acenaphthene	110		72	14	ug/Kg	4	☼	8270C	Total/NA
Acenaphthylene	68	J	72	19	ug/Kg	4	☼	8270C	Total/NA
Naphthalene	4100		72	12	ug/Kg	4	☼	8270C	Total/NA
Barium	52		16	0.29	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.31		0.16	0.039	mg/Kg	1	☼	6010B	Total/NA
Chromium	21		0.40	0.12	mg/Kg	1	☼	6010B	Total/NA
Arsenic	18		0.81	0.25	mg/Kg	1	☼	6010B	Total/NA
Lead	22		0.81	0.23	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.63	J	1.2	0.38	mg/Kg	1	☼	6010B	Total/NA
Nickel	27		3.2	0.19	mg/Kg	1	☼	6010B	Total/NA
Antimony	0.49	J	0.81	0.29	mg/Kg	1	☼	6010B	Total/NA
Sodium	84	J	400	51	mg/Kg	1	☼	6010B	Total/NA
Potassium	850		400	29	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.59		0.40	0.043	mg/Kg	1	☼	6010B	Total/NA
Calcium	21000		400	29	mg/Kg	1	☼	6010B	Total/NA
Iron	16000	^	8.1	5.6	mg/Kg	1	☼	6010B	Total/NA
Vanadium	12		4.0	0.66	mg/Kg	1	☼	6010B	Total/NA
Magnesium	2200		400	37	mg/Kg	1	☼	6010B	Total/NA
Copper	25		2.0	0.19	mg/Kg	1	☼	6010B	Total/NA
Aluminum	5200		16	4.3	mg/Kg	1	☼	6010B	Total/NA
Zinc	120		4.0	1.1	mg/Kg	1	☼	6010B	Total/NA
Manganese	340		1.2	0.25	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.3		0.81	0.16	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.14		0.13	0.023	mg/Kg	1	☼	7471A	Total/NA

Client Sample ID: TP4_090120_S4 — Lab Sample ID: 240-135906-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	87	*3	31	26	ug/Kg	1	☼	8260B	Total/NA
Benzene	2.5	J *3	6.1	0.85	ug/Kg	1	☼	8260B	Total/NA
2-Butanone (MEK)	11	J *3	24	4.3	ug/Kg	1	☼	8260B	Total/NA
Carbon disulfide	4.1	J *3	6.1	1.4	ug/Kg	1	☼	8260B	Total/NA
Ethylbenzene	4.2	J *3	6.1	1.3	ug/Kg	1	☼	8260B	Total/NA
Toluene	6.7	*3	6.1	0.94	ug/Kg	1	☼	8260B	Total/NA
Xylenes, Total	5.3	J *3	12	1.9	ug/Kg	1	☼	8260B	Total/NA
Isopropylbenzene	1.5	J *3	6.1	1.0	ug/Kg	1	☼	8260B	Total/NA
Benzo[a]anthracene	1500		190	43	ug/Kg	10	☼	8270C	Total/NA
Benzo[a]pyrene	1300		190	120	ug/Kg	10	☼	8270C	Total/NA
Benzo[b]fluoranthene	1400		190	81	ug/Kg	10	☼	8270C	Total/NA
Benzo[g,h,i]perylene	730		190	89	ug/Kg	10	☼	8270C	Total/NA
Benzo[k]fluoranthene	370		190	86	ug/Kg	10	☼	8270C	Total/NA
Anthracene	750	*3	190	30	ug/Kg	10	☼	8270C	Total/NA
Chrysene	1600		190	19	ug/Kg	10	☼	8270C	Total/NA
Fluoranthene	2100	*3	190	56	ug/Kg	10	☼	8270C	Total/NA
Fluorene	1400		190	34	ug/Kg	10	☼	8270C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: TP4_090120_S4 (Continued) — Lab Sample ID: 240-135906-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Indeno[1,2,3-cd]pyrene	320		190	92	ug/Kg	10	☼	8270C	Total/NA
Phenanthrene	9300	*3	190	28	ug/Kg	10	☼	8270C	Total/NA
Pyrene	2700		190	27	ug/Kg	10	☼	8270C	Total/NA
Acenaphthene	730		190	36	ug/Kg	10	☼	8270C	Total/NA
Acenaphthylene	370		190	50	ug/Kg	10	☼	8270C	Total/NA
Naphthalene	13000		190	30	ug/Kg	10	☼	8270C	Total/NA
Barium	110		23	0.42	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.13	J	0.23	0.056	mg/Kg	1	☼	6010B	Total/NA
Chromium	11		0.58	0.17	mg/Kg	1	☼	6010B	Total/NA
Arsenic	25		1.2	0.37	mg/Kg	1	☼	6010B	Total/NA
Lead	40		1.2	0.33	mg/Kg	1	☼	6010B	Total/NA
Selenium	3.4		1.7	0.54	mg/Kg	1	☼	6010B	Total/NA
Nickel	13		4.6	0.27	mg/Kg	1	☼	6010B	Total/NA
Antimony	0.63	J	1.2	0.42	mg/Kg	1	☼	6010B	Total/NA
Sodium	470	J	580	73	mg/Kg	1	☼	6010B	Total/NA
Potassium	270	J	580	42	mg/Kg	1	☼	6010B	Total/NA
Beryllium	1.2		0.58	0.063	mg/Kg	1	☼	6010B	Total/NA
Thallium	1.4		1.2	0.46	mg/Kg	1	☼	6010B	Total/NA
Calcium	5300		580	42	mg/Kg	1	☼	6010B	Total/NA
Iron	19000	^	12	8.0	mg/Kg	1	☼	6010B	Total/NA
Vanadium	14		5.8	0.95	mg/Kg	1	☼	6010B	Total/NA
Magnesium	310	J	580	53	mg/Kg	1	☼	6010B	Total/NA
Copper	13		2.9	0.27	mg/Kg	1	☼	6010B	Total/NA
Aluminum	1800		23	6.2	mg/Kg	1	☼	6010B	Total/NA
Zinc	26		5.8	1.6	mg/Kg	1	☼	6010B	Total/NA
Manganese	99		1.7	0.36	mg/Kg	1	☼	6010B	Total/NA
Cobalt	1.7		1.2	0.23	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.36		0.13	0.024	mg/Kg	1	☼	7471A	Total/NA

Client Sample ID: TP4_090120_S5 — Lab Sample ID: 240-135906-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	1700		44	10	ug/Kg	2.5	☼	8270C	Total/NA
Benzo[a]pyrene	1800		44	28	ug/Kg	2.5	☼	8270C	Total/NA
Benzo[b]fluoranthene	3100		44	19	ug/Kg	2.5	☼	8270C	Total/NA
Benzo[g,h,i]perylene	790		44	21	ug/Kg	2.5	☼	8270C	Total/NA
Benzo[k]fluoranthene	740		44	21	ug/Kg	2.5	☼	8270C	Total/NA
Anthracene	180		44	7.1	ug/Kg	2.5	☼	8270C	Total/NA
Chrysene	1700		44	4.4	ug/Kg	2.5	☼	8270C	Total/NA
Dibenz(a,h)anthracene	290		44	20	ug/Kg	2.5	☼	8270C	Total/NA
Fluoranthene	1400		44	13	ug/Kg	2.5	☼	8270C	Total/NA
Fluorene	130		44	8.1	ug/Kg	2.5	☼	8270C	Total/NA
Indeno[1,2,3-cd]pyrene	710		44	22	ug/Kg	2.5	☼	8270C	Total/NA
Phenanthrene	2200		44	6.6	ug/Kg	2.5	☼	8270C	Total/NA
Pyrene	1200		44	6.3	ug/Kg	2.5	☼	8270C	Total/NA
Acenaphthene	97		44	8.5	ug/Kg	2.5	☼	8270C	Total/NA
Acenaphthylene	130		44	12	ug/Kg	2.5	☼	8270C	Total/NA
Naphthalene	2700		44	7.1	ug/Kg	2.5	☼	8270C	Total/NA
Barium	130		18	0.33	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.30		0.18	0.044	mg/Kg	1	☼	6010B	Total/NA
Chromium	23		2.3	0.69	mg/Kg	5	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: TP4_090120_S5 (Continued) — Lab Sample ID: 240-135906-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	20		4.6	1.4	mg/Kg	5	☼	6010B	Total/NA
Lead	63		0.91	0.26	mg/Kg	1	☼	6010B	Total/NA
Selenium	4.2	J	6.9	2.1	mg/Kg	5	☼	6010B	Total/NA
Nickel	20		3.7	0.21	mg/Kg	1	☼	6010B	Total/NA
Antimony	1.4		0.91	0.33	mg/Kg	1	☼	6010B	Total/NA
Sodium	450	J	460	57	mg/Kg	1	☼	6010B	Total/NA
Potassium	750		460	33	mg/Kg	1	☼	6010B	Total/NA
Beryllium	1.1		0.46	0.049	mg/Kg	1	☼	6010B	Total/NA
Calcium	21000		460	33	mg/Kg	1	☼	6010B	Total/NA
Iron	24000	^	9.1	6.3	mg/Kg	1	☼	6010B	Total/NA
Vanadium	13		4.6	0.75	mg/Kg	1	☼	6010B	Total/NA
Magnesium	3700		460	42	mg/Kg	1	☼	6010B	Total/NA
Copper	98		2.3	0.22	mg/Kg	1	☼	6010B	Total/NA
Aluminum	7100		18	4.9	mg/Kg	1	☼	6010B	Total/NA
Zinc	84		4.6	1.2	mg/Kg	1	☼	6010B	Total/NA
Manganese	970		6.9	1.4	mg/Kg	5	☼	6010B	Total/NA
Cobalt	5.3		0.91	0.18	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.093	J	0.10	0.019	mg/Kg	1	☼	7471A	Total/NA

Client Sample ID: TP5_090120_S5 — Lab Sample ID: 240-135906-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	110		18	4.1	ug/Kg	1	☼	8270C	Total/NA
Benzo[a]pyrene	120		18	11	ug/Kg	1	☼	8270C	Total/NA
Benzo[b]fluoranthene	160		18	7.8	ug/Kg	1	☼	8270C	Total/NA
Benzo[g,h,i]perylene	110		18	8.5	ug/Kg	1	☼	8270C	Total/NA
Benzo[k]fluoranthene	38		18	8.3	ug/Kg	1	☼	8270C	Total/NA
Anthracene	33		18	2.9	ug/Kg	1	☼	8270C	Total/NA
Chrysene	100		18	1.8	ug/Kg	1	☼	8270C	Total/NA
Dibenz(a,h)anthracene	14	J	18	8.3	ug/Kg	1	☼	8270C	Total/NA
Fluoranthene	240		18	5.3	ug/Kg	1	☼	8270C	Total/NA
Fluorene	21		18	3.3	ug/Kg	1	☼	8270C	Total/NA
Indeno[1,2,3-cd]pyrene	48		18	8.8	ug/Kg	1	☼	8270C	Total/NA
Phenanthrene	350		18	2.7	ug/Kg	1	☼	8270C	Total/NA
Pyrene	180		18	2.6	ug/Kg	1	☼	8270C	Total/NA
Acenaphthene	19		18	3.4	ug/Kg	1	☼	8270C	Total/NA
Acenaphthylene	16	J	18	4.8	ug/Kg	1	☼	8270C	Total/NA
Naphthalene	440		18	2.9	ug/Kg	1	☼	8270C	Total/NA
Barium	76		17	0.31	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.33		0.17	0.041	mg/Kg	1	☼	6010B	Total/NA
Chromium	33		0.43	0.13	mg/Kg	1	☼	6010B	Total/NA
Arsenic	11		0.86	0.27	mg/Kg	1	☼	6010B	Total/NA
Lead	21		0.86	0.24	mg/Kg	1	☼	6010B	Total/NA
Nickel	27		3.4	0.20	mg/Kg	1	☼	6010B	Total/NA
Sodium	54	J	430	54	mg/Kg	1	☼	6010B	Total/NA
Potassium	640		430	31	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.63		0.43	0.046	mg/Kg	1	☼	6010B	Total/NA
Calcium	18000		430	31	mg/Kg	1	☼	6010B	Total/NA
Iron	20000	^	8.6	6.0	mg/Kg	1	☼	6010B	Total/NA
Vanadium	18		4.3	0.71	mg/Kg	1	☼	6010B	Total/NA
Magnesium	3500		430	40	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: TP5_090120_S5 (Continued) — Lab Sample ID: 240-135906-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	22		2.2	0.20	mg/Kg	1	☼	6010B	Total/NA
Aluminum	7400		17	4.6	mg/Kg	1	☼	6010B	Total/NA
Zinc	78		4.3	1.2	mg/Kg	1	☼	6010B	Total/NA
Manganese	790		1.3	0.27	mg/Kg	1	☼	6010B	Total/NA
Cobalt	8.5		0.86	0.17	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.063	J	0.14	0.025	mg/Kg	1	☼	7471A	Total/NA

Client Sample ID: TP5_090120_S3 — Lab Sample ID: 240-135906-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	360		68	15	ug/Kg	4	☼	8270C	Total/NA
Benzo[a]pyrene	320		68	42	ug/Kg	4	☼	8270C	Total/NA
Benzo[b]fluoranthene	430		68	29	ug/Kg	4	☼	8270C	Total/NA
Benzo[g,h,i]perylene	250		68	32	ug/Kg	4	☼	8270C	Total/NA
Benzo[k]fluoranthene	98		68	31	ug/Kg	4	☼	8270C	Total/NA
Anthracene	140		68	11	ug/Kg	4	☼	8270C	Total/NA
Chrysene	360		68	6.7	ug/Kg	4	☼	8270C	Total/NA
Fluoranthene	460		68	20	ug/Kg	4	☼	8270C	Total/NA
Fluorene	130		68	12	ug/Kg	4	☼	8270C	Total/NA
Indeno[1,2,3-cd]pyrene	110		68	33	ug/Kg	4	☼	8270C	Total/NA
Phenanthrene	1800		68	10	ug/Kg	4	☼	8270C	Total/NA
Pyrene	510		68	9.7	ug/Kg	4	☼	8270C	Total/NA
Acenaphthene	150		68	13	ug/Kg	4	☼	8270C	Total/NA
Acenaphthylene	89		68	18	ug/Kg	4	☼	8270C	Total/NA
Naphthalene	4100		68	11	ug/Kg	4	☼	8270C	Total/NA
Aroclor-1254	130		56	26	ug/Kg	1	☼	8082	Total/NA
Barium	110		20	0.37	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.31		0.20	0.048	mg/Kg	1	☼	6010B	Total/NA
Chromium	22		0.50	0.15	mg/Kg	1	☼	6010B	Total/NA
Arsenic	15		1.0	0.32	mg/Kg	1	☼	6010B	Total/NA
Lead	58		1.0	0.28	mg/Kg	1	☼	6010B	Total/NA
Selenium	1.0	J	1.5	0.47	mg/Kg	1	☼	6010B	Total/NA
Nickel	24		4.0	0.24	mg/Kg	1	☼	6010B	Total/NA
Sodium	150	J	500	63	mg/Kg	1	☼	6010B	Total/NA
Potassium	630		500	36	mg/Kg	1	☼	6010B	Total/NA
Beryllium	1.0		0.50	0.055	mg/Kg	1	☼	6010B	Total/NA
Calcium	43000		500	37	mg/Kg	1	☼	6010B	Total/NA
Iron	17000	^	10	7.0	mg/Kg	1	☼	6010B	Total/NA
Vanadium	15		5.0	0.83	mg/Kg	1	☼	6010B	Total/NA
Magnesium	6300		500	47	mg/Kg	1	☼	6010B	Total/NA
Copper	15		2.5	0.24	mg/Kg	1	☼	6010B	Total/NA
Aluminum	6900		20	5.4	mg/Kg	1	☼	6010B	Total/NA
Zinc	69		5.0	1.4	mg/Kg	1	☼	6010B	Total/NA
Manganese	890		1.5	0.31	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.2		1.0	0.20	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.075	J	0.11	0.021	mg/Kg	1	☼	7471A	Total/NA

Client Sample ID: TP5_090120_S5_DUP — Lab Sample ID: 240-135906-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	45		20	4.5	ug/Kg	1	☼	8270C	Total/NA
Benzo[a]pyrene	42		20	12	ug/Kg	1	☼	8270C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: TP5_090120_S5_DUP (Continued) — Lab Sample ID: 240-135906-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	59		20	8.6	ug/Kg	1	☼	8270C	Total/NA
Benzo[g,h,i]perylene	34		20	9.4	ug/Kg	1	☼	8270C	Total/NA
Benzo[k]fluoranthene	19	J	20	9.1	ug/Kg	1	☼	8270C	Total/NA
Anthracene	12	J	20	3.2	ug/Kg	1	☼	8270C	Total/NA
Chrysene	41		20	2.0	ug/Kg	1	☼	8270C	Total/NA
Fluoranthene	73		20	5.9	ug/Kg	1	☼	8270C	Total/NA
Fluorene	9.7	J	20	3.6	ug/Kg	1	☼	8270C	Total/NA
Indeno[1,2,3-cd]pyrene	21		20	9.7	ug/Kg	1	☼	8270C	Total/NA
Phenanthrene	160		20	2.9	ug/Kg	1	☼	8270C	Total/NA
Pyrene	64		20	2.8	ug/Kg	1	☼	8270C	Total/NA
Naphthalene	300		20	3.2	ug/Kg	1	☼	8270C	Total/NA
Barium	89		19	0.34	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.37		0.19	0.045	mg/Kg	1	☼	6010B	Total/NA
Chromium	91		0.47	0.14	mg/Kg	1	☼	6010B	Total/NA
Arsenic	12		0.94	0.30	mg/Kg	1	☼	6010B	Total/NA
Lead	20		0.94	0.27	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.81	J	1.4	0.44	mg/Kg	1	☼	6010B	Total/NA
Nickel	27		3.8	0.22	mg/Kg	1	☼	6010B	Total/NA
Potassium	640		470	34	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.57		0.47	0.051	mg/Kg	1	☼	6010B	Total/NA
Calcium	26000		470	34	mg/Kg	1	☼	6010B	Total/NA
Iron	19000		9.4	6.6	mg/Kg	1	☼	6010B	Total/NA
Vanadium	24		4.7	0.78	mg/Kg	1	☼	6010B	Total/NA
Magnesium	4000		470	44	mg/Kg	1	☼	6010B	Total/NA
Copper	21		2.4	0.22	mg/Kg	1	☼	6010B	Total/NA
Aluminum	8000		19	5.0	mg/Kg	1	☼	6010B	Total/NA
Zinc	81		4.7	1.3	mg/Kg	1	☼	6010B	Total/NA
Manganese	1100		1.4	0.29	mg/Kg	1	☼	6010B	Total/NA
Cobalt	9.2		0.94	0.19	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.052	J	0.14	0.025	mg/Kg	1	☼	7471A	Total/NA

Client Sample ID: TP6_090220_S7 — Lab Sample ID: 240-135927-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	80		32	27	ug/Kg	1	☼	8260B	Total/NA
2-Butanone (MEK)	16	J	26	4.6	ug/Kg	1	☼	8260B	Total/NA
Toluene	7.7		6.5	1.0	ug/Kg	1	☼	8260B	Total/NA
Benzo[a]anthracene	11	J	19	4.4	ug/Kg	1	☼	8270C	Total/NA
Benzo[b]fluoranthene	13	J	19	8.3	ug/Kg	1	☼	8270C	Total/NA
Benzo[g,h,i]perylene	13	J	19	9.1	ug/Kg	1	☼	8270C	Total/NA
Anthracene	6.1	J	19	3.1	ug/Kg	1	☼	8270C	Total/NA
Chrysene	11	J	19	1.9	ug/Kg	1	☼	8270C	Total/NA
Fluoranthene	15	J	19	5.7	ug/Kg	1	☼	8270C	Total/NA
Phenanthrene	29		19	2.9	ug/Kg	1	☼	8270C	Total/NA
Pyrene	23		19	2.7	ug/Kg	1	☼	8270C	Total/NA
Naphthalene	25		19	3.1	ug/Kg	1	☼	8270C	Total/NA
Aluminum	5000		24	6.4	mg/Kg	1	☼	6010B	Total/NA
Barium	140		24	0.43	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.21	J	0.60	0.065	mg/Kg	1	☼	6010B	Total/NA
Calcium	990		600	44	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.12	J	0.24	0.058	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: TP6_090220_S7 (Continued) — Lab Sample ID: 240-135927-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	9.2		1.2	0.24	mg/Kg	1	☼	6010B	Total/NA
Chromium	7.6		0.60	0.18	mg/Kg	1	☼	6010B	Total/NA
Copper	15		3.0	0.28	mg/Kg	1	☼	6010B	Total/NA
Iron	21000		12	8.3	mg/Kg	1	☼	6010B	Total/NA
Potassium	420	J	600	43	mg/Kg	1	☼	6010B	Total/NA
Magnesium	1200		600	55	mg/Kg	1	☼	6010B	Total/NA
Manganese	290		1.8	0.37	mg/Kg	1	☼	6010B	Total/NA
Nickel	10		4.8	0.28	mg/Kg	1	☼	6010B	Total/NA
Vanadium	12		6.0	0.99	mg/Kg	1	☼	6010B	Total/NA
Zinc	46		6.0	1.6	mg/Kg	1	☼	6010B	Total/NA
Arsenic	11		1.2	0.38	mg/Kg	1	☼	6010B	Total/NA
Lead	11		1.2	0.34	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.73	J	1.8	0.56	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.049	J	0.13	0.023	mg/Kg	1	☼	7471A	Total/NA

Client Sample ID: TP6_090220_S4 — Lab Sample ID: 240-135927-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	34		29	24	ug/Kg	1	☼	8260B	Total/NA
2-Butanone (MEK)	5.0	J	23	4.1	ug/Kg	1	☼	8260B	Total/NA
Toluene	1.8	J	5.8	0.89	ug/Kg	1	☼	8260B	Total/NA
Benzo[a]anthracene	4.5	J	18	4.1	ug/Kg	1	☼	8270C	Total/NA
Chrysene	4.1	J	18	1.8	ug/Kg	1	☼	8270C	Total/NA
Fluoranthene	7.5	J	18	5.3	ug/Kg	1	☼	8270C	Total/NA
Phenanthrene	7.0	J	18	2.7	ug/Kg	1	☼	8270C	Total/NA
Pyrene	6.3	J	18	2.6	ug/Kg	1	☼	8270C	Total/NA
Naphthalene	5.1	J	18	2.9	ug/Kg	1	☼	8270C	Total/NA
Aluminum	10000		21	5.7	mg/Kg	1	☼	6010B	Total/NA
Barium	49		21	0.38	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.40	J	0.53	0.057	mg/Kg	1	☼	6010B	Total/NA
Calcium	1200		530	39	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.16	J	0.21	0.051	mg/Kg	1	☼	6010B	Total/NA
Cobalt	5.3		1.1	0.21	mg/Kg	1	☼	6010B	Total/NA
Chromium	12		0.53	0.16	mg/Kg	1	☼	6010B	Total/NA
Copper	20		2.7	0.25	mg/Kg	1	☼	6010B	Total/NA
Iron	24000		11	7.4	mg/Kg	1	☼	6010B	Total/NA
Potassium	710		530	38	mg/Kg	1	☼	6010B	Total/NA
Magnesium	1800		530	49	mg/Kg	1	☼	6010B	Total/NA
Manganese	210		1.6	0.33	mg/Kg	1	☼	6010B	Total/NA
Nickel	18		4.2	0.25	mg/Kg	1	☼	6010B	Total/NA
Vanadium	20		5.3	0.87	mg/Kg	1	☼	6010B	Total/NA
Zinc	70		5.3	1.4	mg/Kg	1	☼	6010B	Total/NA
Arsenic	19		1.1	0.34	mg/Kg	1	☼	6010B	Total/NA
Lead	18		1.1	0.30	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.047	J	0.13	0.023	mg/Kg	1	☼	7471A	Total/NA

Client Sample ID: TP7_090220_S1 — Lab Sample ID: 240-135927-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	2.8	J	5.4	0.84	ug/Kg	1	☼	8260B	Total/NA
Benzo[a]anthracene	29		17	3.9	ug/Kg	1	☼	8270C	Total/NA
Benzo[a]pyrene	31		17	11	ug/Kg	1	☼	8270C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: TP7_090220_S1 (Continued) — Lab Sample ID: 240-135927-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	48		17	7.4	ug/Kg	1	☼	8270C	Total/NA
Benzo[g,h,i]perylene	21		17	8.0	ug/Kg	1	☼	8270C	Total/NA
Benzo[k]fluoranthene	14	J	17	7.9	ug/Kg	1	☼	8270C	Total/NA
Anthracene	6.4	J	17	2.7	ug/Kg	1	☼	8270C	Total/NA
Chrysene	35		17	1.7	ug/Kg	1	☼	8270C	Total/NA
Fluoranthene	43		17	5.0	ug/Kg	1	☼	8270C	Total/NA
Indeno[1,2,3-cd]pyrene	15	J	17	8.3	ug/Kg	1	☼	8270C	Total/NA
Phenanthrene	81		17	2.5	ug/Kg	1	☼	8270C	Total/NA
Pyrene	44		17	2.4	ug/Kg	1	☼	8270C	Total/NA
Naphthalene	88		17	2.7	ug/Kg	1	☼	8270C	Total/NA
Aroclor-1242	32	J	58	22	ug/Kg	1	☼	8082A	Total/NA
Aluminum	9100		21	5.5	mg/Kg	1	☼	6010B	Total/NA
Barium	110		21	0.37	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.92		0.52	0.056	mg/Kg	1	☼	6010B	Total/NA
Calcium	46000		520	38	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.26		0.21	0.050	mg/Kg	1	☼	6010B	Total/NA
Cobalt	7.6		1.0	0.21	mg/Kg	1	☼	6010B	Total/NA
Chromium	21		0.52	0.16	mg/Kg	1	☼	6010B	Total/NA
Copper	11		2.6	0.24	mg/Kg	1	☼	6010B	Total/NA
Iron	16000		10	7.2	mg/Kg	1	☼	6010B	Total/NA
Potassium	740		520	37	mg/Kg	1	☼	6010B	Total/NA
Magnesium	7600		520	48	mg/Kg	1	☼	6010B	Total/NA
Manganese	1100		1.5	0.32	mg/Kg	1	☼	6010B	Total/NA
Sodium	110	J	520	65	mg/Kg	1	☼	6010B	Total/NA
Nickel	17		4.1	0.24	mg/Kg	1	☼	6010B	Total/NA
Vanadium	19		5.2	0.85	mg/Kg	1	☼	6010B	Total/NA
Zinc	59		5.2	1.4	mg/Kg	1	☼	6010B	Total/NA
Arsenic	14		1.0	0.33	mg/Kg	1	☼	6010B	Total/NA
Lead	21		1.0	0.29	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.040	J	0.097	0.018	mg/Kg	1	☼	7471A	Total/NA

Client Sample ID: TP8_090220_S1 — Lab Sample ID: 240-135927-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	31		18	4.1	ug/Kg	1	☼	8270C	Total/NA
Benzo[a]pyrene	41		18	11	ug/Kg	1	☼	8270C	Total/NA
Benzo[b]fluoranthene	64		18	7.8	ug/Kg	1	☼	8270C	Total/NA
Benzo[g,h,i]perylene	28		18	8.6	ug/Kg	1	☼	8270C	Total/NA
Benzo[k]fluoranthene	22		18	8.4	ug/Kg	1	☼	8270C	Total/NA
Anthracene	5.2	J	18	2.9	ug/Kg	1	☼	8270C	Total/NA
Chrysene	48		18	1.8	ug/Kg	1	☼	8270C	Total/NA
Fluoranthene	54		18	5.4	ug/Kg	1	☼	8270C	Total/NA
Indeno[1,2,3-cd]pyrene	23		18	8.9	ug/Kg	1	☼	8270C	Total/NA
Phenanthrene	54		18	2.7	ug/Kg	1	☼	8270C	Total/NA
Pyrene	53		18	2.6	ug/Kg	1	☼	8270C	Total/NA
Naphthalene	60		18	2.9	ug/Kg	1	☼	8270C	Total/NA
Aroclor-1242	24	J	62	23	ug/Kg	1	☼	8082A	Total/NA
Aroclor-1254	290		62	28	ug/Kg	1	☼	8082A	Total/NA
Aluminum	9100		19	5.1	mg/Kg	1	☼	6010B	Total/NA
Barium	140	F1	19	0.35	mg/Kg	1	☼	6010B	Total/NA
Beryllium	0.92		0.48	0.052	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: TP8_090220_S1 (Continued)

Lab Sample ID: 240-135927-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	74000		480	35	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.32		0.19	0.046	mg/Kg	1	☼	6010B	Total/NA
Cobalt	6.9		0.96	0.19	mg/Kg	1	☼	6010B	Total/NA
Chromium	27	F2	0.48	0.15	mg/Kg	1	☼	6010B	Total/NA
Copper	13		2.4	0.23	mg/Kg	1	☼	6010B	Total/NA
Iron	15000	F2	9.6	6.7	mg/Kg	1	☼	6010B	Total/NA
Potassium	830		480	35	mg/Kg	1	☼	6010B	Total/NA
Magnesium	11000	F2 F1	480	44	mg/Kg	1	☼	6010B	Total/NA
Manganese	1300	F2	1.4	0.30	mg/Kg	1	☼	6010B	Total/NA
Sodium	150	J	480	60	mg/Kg	1	☼	6010B	Total/NA
Nickel	21	F2	3.8	0.22	mg/Kg	1	☼	6010B	Total/NA
Vanadium	17		4.8	0.79	mg/Kg	1	☼	6010B	Total/NA
Zinc	77		4.8	1.3	mg/Kg	1	☼	6010B	Total/NA
Arsenic	12		0.96	0.30	mg/Kg	1	☼	6010B	Total/NA
Lead	27		0.96	0.27	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.033	J	0.12	0.022	mg/Kg	1	☼	7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: EnviroScience Inc
Project/Site: Clark Ave Extension

Job ID: 240-135906-1

Client Sample ID: TP1_090120_S5

Date Collected: 09/01/20 10:15
Date Received: 09/01/20 14:00

Lab Sample ID: 240-135906-1

Matrix: Solid
Percent Solids: 87.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<21		25	21	ug/Kg	☼	09/04/20 12:39	09/04/20 18:15	1
Benzene	<0.71		5.1	0.71	ug/Kg	☼	09/04/20 12:39	09/04/20 18:15	1
Dichlorobromomethane	<0.69		5.1	0.69	ug/Kg	☼	09/04/20 12:39	09/04/20 18:15	1
Bromoform	<2.4		5.1	2.4	ug/Kg	☼	09/04/20 12:39	09/04/20 18:15	1
Bromomethane	<1.0		5.1	1.0	ug/Kg	☼	09/04/20 12:39	09/04/20 18:15	1
2-Butanone (MEK)	<3.6		20	3.6	ug/Kg	☼	09/04/20 12:39	09/04/20 18:15	1
Carbon disulfide	<1.2		5.1	1.2	ug/Kg	☼	09/04/20 12:39	09/04/20 18:15	1
Carbon tetrachloride	<3.3		5.1	3.3	ug/Kg	☼	09/04/20 12:39	09/04/20 18:15	1
Chlorobenzene	<0.93		5.1	0.93	ug/Kg	☼	09/04/20 12:39	09/04/20 18:15	1
Chloroethane	<1.2		5.1	1.2	ug/Kg	☼	09/04/20 12:39	09/04/20 18:15	1
Chloroform	<0.80		5.1	0.80	ug/Kg	☼	09/04/20 12:39	09/04/20 18:15	1
Chloromethane	<1.1		5.1	1.1	ug/Kg	☼	09/04/20 12:39	09/04/20 18:15	1
1,1-Dichloroethane	<0.71		5.1	0.71	ug/Kg	☼	09/04/20 12:39	09/04/20 18:15	1
1,2-Dichloroethane	<0.79		5.1	0.79	ug/Kg	☼	09/04/20 12:39	09/04/20 18:15	1
1,1-Dichloroethene	<0.92		5.1	0.92	ug/Kg	☼	09/04/20 12:39	09/04/20 18:15	1
1,2-Dichloropropane	<0.87		5.1	0.87	ug/Kg	☼	09/04/20 12:39	09/04/20 18:15	1
cis-1,3-Dichloropropene	<1.5		5.1	1.5	ug/Kg	☼	09/04/20 12:39	09/04/20 18:15	1
trans-1,3-Dichloropropene	<1.1		5.1	1.1	ug/Kg	☼	09/04/20 12:39	09/04/20 18:15	1
Ethylbenzene	<1.1		5.1	1.1	ug/Kg	☼	09/04/20 12:39	09/04/20 18:15	1
2-Hexanone	<4.2		20	4.2	ug/Kg	☼	09/04/20 12:39	09/04/20 18:15	1
Methylene Chloride	<12		25	12	ug/Kg	☼	09/04/20 12:39	09/04/20 18:15	1
4-Methyl-2-pentanone (MIBK)	<3.8		20	3.8	ug/Kg	☼	09/04/20 12:39	09/04/20 18:15	1
Styrene	<1.2		5.1	1.2	ug/Kg	☼	09/04/20 12:39	09/04/20 18:15	1
1,1,2,2-Tetrachloroethane	<1.5		5.1	1.5	ug/Kg	☼	09/04/20 12:39	09/04/20 18:15	1
Tetrachloroethene	<0.74		5.1	0.74	ug/Kg	☼	09/04/20 12:39	09/04/20 18:15	1
Toluene	<0.79		5.1	0.79	ug/Kg	☼	09/04/20 12:39	09/04/20 18:15	1
Trichloroethene	<0.65		5.1	0.65	ug/Kg	☼	09/04/20 12:39	09/04/20 18:15	1
Vinyl chloride	<0.85		5.1	0.85	ug/Kg	☼	09/04/20 12:39	09/04/20 18:15	1
Xylenes, Total	<1.6		10	1.6	ug/Kg	☼	09/04/20 12:39	09/04/20 18:15	1
1,1,1-Trichloroethane	<0.84		5.1	0.84	ug/Kg	☼	09/04/20 12:39	09/04/20 18:15	1
1,1,2-Trichloroethane	<1.2		5.1	1.2	ug/Kg	☼	09/04/20 12:39	09/04/20 18:15	1
1,2-Dibromo-3-Chloropropane	<3.7		10	3.7	ug/Kg	☼	09/04/20 12:39	09/04/20 18:15	1
Ethylene Dibromide	<0.79		5.1	0.79	ug/Kg	☼	09/04/20 12:39	09/04/20 18:15	1
Dichlorodifluoromethane	<0.96		5.1	0.96	ug/Kg	☼	09/04/20 12:39	09/04/20 18:15	1
cis-1,2-Dichloroethene	<0.66		5.1	0.66	ug/Kg	☼	09/04/20 12:39	09/04/20 18:15	1
trans-1,2-Dichloroethene	<0.47		5.1	0.47	ug/Kg	☼	09/04/20 12:39	09/04/20 18:15	1
Isopropylbenzene	<0.85		5.1	0.85	ug/Kg	☼	09/04/20 12:39	09/04/20 18:15	1
Methyl tert-butyl ether	<0.84		5.1	0.84	ug/Kg	☼	09/04/20 12:39	09/04/20 18:15	1
1,2,4-Trichlorobenzene	<0.58		5.1	0.58	ug/Kg	☼	09/04/20 12:39	09/04/20 18:15	1
1,2-Dichlorobenzene	<1.1		5.1	1.1	ug/Kg	☼	09/04/20 12:39	09/04/20 18:15	1
1,3-Dichlorobenzene	<0.83		5.1	0.83	ug/Kg	☼	09/04/20 12:39	09/04/20 18:15	1
1,4-Dichlorobenzene	<0.90		5.1	0.90	ug/Kg	☼	09/04/20 12:39	09/04/20 18:15	1
Trichlorofluoromethane	<1.1		5.1	1.1	ug/Kg	☼	09/04/20 12:39	09/04/20 18:15	1
Chlorodibromomethane	<2.8		5.1	2.8	ug/Kg	☼	09/04/20 12:39	09/04/20 18:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*59 - 120*	*09/04/20 12:39*	*09/04/20 18:15*	*1*
4-Bromofluorobenzene (Surr)	*96*		*51 - 127*	*09/04/20 12:39*	*09/04/20 18:15*	*1*
Toluene-d8 (Surr)	*96*		*64 - 124*	*09/04/20 12:39*	*09/04/20 18:15*	*1*
Dibromofluoromethane (Surr)	*93*		*56 - 122*	*09/04/20 12:39*	*09/04/20 18:15*	*1*

Client Sample Results

Client: EnviroScience Inc
Project/Site: Clark Ave Extension

Job ID: 240-135906-1

Client Sample ID: TP1_090120_S5

Date Collected: 09/01/20 10:15
Date Received: 09/01/20 14:00

Lab Sample ID: 240-135906-1

Matrix: Solid
Percent Solids: 87.4

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	230		17	4.0	ug/Kg	☼	09/03/20 08:59	09/08/20 14:55	1
Benzo[a]pyrene	240		17	11	ug/Kg	☼	09/03/20 08:59	09/08/20 14:55	1
Benzo[b]fluoranthene	310		17	7.6	ug/Kg	☼	09/03/20 08:59	09/08/20 14:55	1
Benzo[g,h,i]perylene	150		17	8.3	ug/Kg	☼	09/03/20 08:59	09/08/20 14:55	1
Benzo[k]fluoranthene	120		17	8.1	ug/Kg	☼	09/03/20 08:59	09/08/20 14:55	1
Anthracene	61		17	2.8	ug/Kg	☼	09/03/20 08:59	09/08/20 14:55	1
Chrysene	240		17	1.7	ug/Kg	☼	09/03/20 08:59	09/08/20 14:55	1
Dibenz(a,h)anthracene	40		17	8.0	ug/Kg	☼	09/03/20 08:59	09/08/20 14:55	1
Fluoranthene	410		17	5.2	ug/Kg	☼	09/03/20 08:59	09/08/20 14:55	1
Fluorene	26		17	3.2	ug/Kg	☼	09/03/20 08:59	09/08/20 14:55	1
Indeno[1,2,3-cd]pyrene	130		17	8.6	ug/Kg	☼	09/03/20 08:59	09/08/20 14:55	1
Phenanthrene	310		17	2.6	ug/Kg	☼	09/03/20 08:59	09/08/20 14:55	1
Pyrene	330		17	2.5	ug/Kg	☼	09/03/20 08:59	09/08/20 14:55	1
Acenaphthene	25		17	3.3	ug/Kg	☼	09/03/20 08:59	09/08/20 14:55	1
Acenaphthylene	23		17	4.7	ug/Kg	☼	09/03/20 08:59	09/08/20 14:55	1
Naphthalene	120		17	2.8	ug/Kg	☼	09/03/20 08:59	09/08/20 14:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*64*		*35 - 120*	*09/03/20 08:59*	*09/08/20 14:55*	*1*
2-Fluorophenol (Surr)	*52*		*26 - 120*	*09/03/20 08:59*	*09/08/20 14:55*	*1*
2,4,6-Tribromophenol (Surr)	*51*		*10 - 120*	*09/03/20 08:59*	*09/08/20 14:55*	*1*
Nitrobenzene-d5 (Surr)	*56*		*28 - 120*	*09/03/20 08:59*	*09/08/20 14:55*	*1*
Phenol-d5 (Surr)	*60*		*28 - 120*	*09/03/20 08:59*	*09/08/20 14:55*	*1*
Terphenyl-d14 (Surr)	*85*		*39 - 120*	*09/03/20 08:59*	*09/08/20 14:55*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<25		56	25	ug/Kg	☼	09/03/20 08:01	09/08/20 11:34	1
Aroclor-1221	<27		56	27	ug/Kg	☼	09/03/20 08:01	09/08/20 11:34	1
Aroclor-1232	<26		56	26	ug/Kg	☼	09/03/20 08:01	09/08/20 11:34	1
Aroclor-1242	<21		56	21	ug/Kg	☼	09/03/20 08:01	09/08/20 11:34	1
Aroclor-1248	<27		56	27	ug/Kg	☼	09/03/20 08:01	09/08/20 11:34	1
Aroclor-1254	<26		56	26	ug/Kg	☼	09/03/20 08:01	09/08/20 11:34	1
Aroclor-1260	<25		56	25	ug/Kg	☼	09/03/20 08:01	09/08/20 11:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*105*		*14 - 128*	*09/03/20 08:01*	*09/08/20 11:34*	*1*
DCB Decachlorobiphenyl	*145*	*X*	*10 - 132*	*09/03/20 08:01*	*09/08/20 11:34*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	110		21	0.39	mg/Kg	☼	09/02/20 14:00	09/03/20 22:57	1
Cadmium	0.21		0.21	0.051	mg/Kg	☼	09/02/20 14:00	09/03/20 22:57	1
Chromium	10		0.53	0.16	mg/Kg	☼	09/02/20 14:00	09/03/20 22:57	1
Silver	<0.087		0.53	0.087	mg/Kg	☼	09/02/20 14:00	09/03/20 22:57	1
Arsenic	12		1.1	0.34	mg/Kg	☼	09/02/20 14:00	09/03/20 22:57	1
Lead	160		1.1	0.30	mg/Kg	☼	09/02/20 14:00	09/03/20 22:57	1
Selenium	<0.50		1.6	0.50	mg/Kg	☼	09/02/20 14:00	09/03/20 22:57	1
Nickel	18		4.3	0.25	mg/Kg	☼	09/02/20 14:00	09/03/20 22:57	1
Antimony	<0.38		1.1	0.38	mg/Kg	☼	09/02/20 14:00	09/03/20 22:57	1

Client Sample Results

Client: EnviroScience Inc
Project/Site: Clark Ave Extension

Job ID: 240-135906-1

Client Sample ID: TP1_090120_S5

Date Collected: 09/01/20 10:15
Date Received: 09/01/20 14:00

Lab Sample ID: 240-135906-1

Matrix: Solid
Percent Solids: 87.4

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	<67		530	67	mg/Kg	☼	09/02/20 14:00	09/03/20 22:57	1
Potassium	**520**	**J**	530	39	mg/Kg	☼	09/02/20 14:00	09/03/20 22:57	1
Beryllium	**0.38**	**J**	0.53	0.058	mg/Kg	☼	09/02/20 14:00	09/03/20 22:57	1
Thallium	<0.43		1.1	0.43	mg/Kg	☼	09/02/20 14:00	09/03/20 22:57	1
Calcium	**4100**		530	39	mg/Kg	☼	09/02/20 14:00	09/03/20 22:57	1
Iron	**23000**	**^**	11	7.4	mg/Kg	☼	09/02/20 14:00	09/03/20 22:57	1
Vanadium	**13**		5.3	0.88	mg/Kg	☼	09/02/20 14:00	09/03/20 22:57	1
Magnesium	**1400**		530	49	mg/Kg	☼	09/02/20 14:00	09/03/20 22:57	1
Copper	**21**		2.7	0.25	mg/Kg	☼	09/02/20 14:00	09/03/20 22:57	1
Aluminum	**6100**		21	5.7	mg/Kg	☼	09/02/20 14:00	09/03/20 22:57	1
Zinc	**82**		5.3	1.5	mg/Kg	☼	09/02/20 14:00	09/03/20 22:57	1
Manganese	**640**		1.6	0.33	mg/Kg	☼	09/02/20 14:00	09/03/20 22:57	1
Cobalt	**6.5**		1.1	0.21	mg/Kg	☼	09/02/20 14:00	09/03/20 22:57	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.032**	**J**	0.11	0.019	mg/Kg	☼	09/02/20 14:00	09/04/20 10:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**87.4**		0.1	0.1	%			09/03/20 16:00	1
Percent Moisture	**12.6**		0.1	0.1	%			09/03/20 16:00	1

Client Sample Results

Client: EnviroScience Inc
Project/Site: Clark Ave Extension

Job ID: 240-135906-1

Client Sample ID: TP1_090120_S3

Date Collected: 09/01/20 10:20
Date Received: 09/01/20 14:00

Lab Sample ID: 240-135906-2

Matrix: Solid
Percent Solids: 87.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<20		24	20	ug/Kg	☼	09/08/20 11:17	09/08/20 14:52	1
Benzene	<0.67		4.8	0.67	ug/Kg	☼	09/08/20 11:17	09/08/20 14:52	1
Dichlorobromomethane	<0.65		4.8	0.65	ug/Kg	☼	09/08/20 11:17	09/08/20 14:52	1
Bromoform	<2.3		4.8	2.3	ug/Kg	☼	09/08/20 11:17	09/08/20 14:52	1
Bromomethane	<0.95		4.8	0.95	ug/Kg	☼	09/08/20 11:17	09/08/20 14:52	1
2-Butanone (MEK)	<3.4		19	3.4	ug/Kg	☼	09/08/20 11:17	09/08/20 14:52	1
Carbon disulfide	<1.1		4.8	1.1	ug/Kg	☼	09/08/20 11:17	09/08/20 14:52	1
Carbon tetrachloride	<3.1		4.8	3.1	ug/Kg	☼	09/08/20 11:17	09/08/20 14:52	1
Chlorobenzene	<0.88		4.8	0.88	ug/Kg	☼	09/08/20 11:17	09/08/20 14:52	1
Chloroethane	<1.2		4.8	1.2	ug/Kg	☼	09/08/20 11:17	09/08/20 14:52	1
Chloroform	<0.76		4.8	0.76	ug/Kg	☼	09/08/20 11:17	09/08/20 14:52	1
Chloromethane	<1.0		4.8	1.0	ug/Kg	☼	09/08/20 11:17	09/08/20 14:52	1
1,1-Dichloroethane	<0.67		4.8	0.67	ug/Kg	☼	09/08/20 11:17	09/08/20 14:52	1
1,2-Dichloroethane	<0.74		4.8	0.74	ug/Kg	☼	09/08/20 11:17	09/08/20 14:52	1
1,1-Dichloroethene	<0.87		4.8	0.87	ug/Kg	☼	09/08/20 11:17	09/08/20 14:52	1
1,2-Dichloropropane	<0.82		4.8	0.82	ug/Kg	☼	09/08/20 11:17	09/08/20 14:52	1
cis-1,3-Dichloropropene	<1.4		4.8	1.4	ug/Kg	☼	09/08/20 11:17	09/08/20 14:52	1
trans-1,3-Dichloropropene	<0.99		4.8	0.99	ug/Kg	☼	09/08/20 11:17	09/08/20 14:52	1
Ethylbenzene	<1.0		4.8	1.0	ug/Kg	☼	09/08/20 11:17	09/08/20 14:52	1
2-Hexanone	<3.9		19	3.9	ug/Kg	☼	09/08/20 11:17	09/08/20 14:52	1
Methylene Chloride	<12		24	12	ug/Kg	☼	09/08/20 11:17	09/08/20 14:52	1
4-Methyl-2-pentanone (MIBK)	<3.6		19	3.6	ug/Kg	☼	09/08/20 11:17	09/08/20 14:52	1
Styrene	<1.1		4.8	1.1	ug/Kg	☼	09/08/20 11:17	09/08/20 14:52	1
1,1,2,2-Tetrachloroethane	<1.4		4.8	1.4	ug/Kg	☼	09/08/20 11:17	09/08/20 14:52	1
Tetrachloroethene	<0.70		4.8	0.70	ug/Kg	☼	09/08/20 11:17	09/08/20 14:52	1
Toluene	<0.74		4.8	0.74	ug/Kg	☼	09/08/20 11:17	09/08/20 14:52	1
Trichloroethene	<0.61		4.8	0.61	ug/Kg	☼	09/08/20 11:17	09/08/20 14:52	1
Vinyl chloride	<0.80		4.8	0.80	ug/Kg	☼	09/08/20 11:17	09/08/20 14:52	1
Xylenes, Total	<1.5		9.6	1.5	ug/Kg	☼	09/08/20 11:17	09/08/20 14:52	1
1,1,1-Trichloroethane	<0.79		4.8	0.79	ug/Kg	☼	09/08/20 11:17	09/08/20 14:52	1
1,1,2-Trichloroethane	<1.1		4.8	1.1	ug/Kg	☼	09/08/20 11:17	09/08/20 14:52	1
1,2-Dibromo-3-Chloropropane	<3.5		9.6	3.5	ug/Kg	☼	09/08/20 11:17	09/08/20 14:52	1
Ethylene Dibromide	<0.74		4.8	0.74	ug/Kg	☼	09/08/20 11:17	09/08/20 14:52	1
Dichlorodifluoromethane	<0.91		4.8	0.91	ug/Kg	☼	09/08/20 11:17	09/08/20 14:52	1
cis-1,2-Dichloroethene	<0.63		4.8	0.63	ug/Kg	☼	09/08/20 11:17	09/08/20 14:52	1
trans-1,2-Dichloroethene	<0.45		4.8	0.45	ug/Kg	☼	09/08/20 11:17	09/08/20 14:52	1
Isopropylbenzene	<0.80		4.8	0.80	ug/Kg	☼	09/08/20 11:17	09/08/20 14:52	1
Methyl tert-butyl ether	<0.79		4.8	0.79	ug/Kg	☼	09/08/20 11:17	09/08/20 14:52	1
1,2,4-Trichlorobenzene	<0.55		4.8	0.55	ug/Kg	☼	09/08/20 11:17	09/08/20 14:52	1
1,2-Dichlorobenzene	<1.1		4.8	1.1	ug/Kg	☼	09/08/20 11:17	09/08/20 14:52	1
1,3-Dichlorobenzene	<0.78		4.8	0.78	ug/Kg	☼	09/08/20 11:17	09/08/20 14:52	1
1,4-Dichlorobenzene	<0.85		4.8	0.85	ug/Kg	☼	09/08/20 11:17	09/08/20 14:52	1
Trichlorofluoromethane	<1.0		4.8	1.0	ug/Kg	☼	09/08/20 11:17	09/08/20 14:52	1
Chlorodibromomethane	<2.7		4.8	2.7	ug/Kg	☼	09/08/20 11:17	09/08/20 14:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*83*		*59 - 120*	*09/08/20 11:17*	*09/08/20 14:52*	*1*
4-Bromofluorobenzene (Surr)	*95*		*51 - 127*	*09/08/20 11:17*	*09/08/20 14:52*	*1*
Toluene-d8 (Surr)	*101*		*64 - 124*	*09/08/20 11:17*	*09/08/20 14:52*	*1*
Dibromofluoromethane (Surr)	*87*		*56 - 122*	*09/08/20 11:17*	*09/08/20 14:52*	*1*

Client Sample Results

Client: EnviroScience Inc
Project/Site: Clark Ave Extension

Job ID: 240-135906-1

Client Sample ID: TP1_090120_S3

Date Collected: 09/01/20 10:20
Date Received: 09/01/20 14:00

Lab Sample ID: 240-135906-2

Matrix: Solid
Percent Solids: 87.5

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	550		43	9.7	ug/Kg	☼	09/03/20 08:59	09/08/20 17:20	2.5
Benzo[a]pyrene	570		43	27	ug/Kg	☼	09/03/20 08:59	09/08/20 17:20	2.5
Benzo[b]fluoranthene	710		43	19	ug/Kg	☼	09/03/20 08:59	09/08/20 17:20	2.5
Benzo[g,h,i]perylene	250		43	20	ug/Kg	☼	09/03/20 08:59	09/08/20 17:20	2.5
Benzo[k]fluoranthene	240		43	20	ug/Kg	☼	09/03/20 08:59	09/08/20 17:20	2.5
Anthracene	220		43	6.9	ug/Kg	☼	09/03/20 08:59	09/08/20 17:20	2.5
Chrysene	570		43	4.3	ug/Kg	☼	09/03/20 08:59	09/08/20 17:20	2.5
Dibenz(a,h)anthracene	72		43	20	ug/Kg	☼	09/03/20 08:59	09/08/20 17:20	2.5
Fluoranthene	940		43	13	ug/Kg	☼	09/03/20 08:59	09/08/20 17:20	2.5
Fluorene	140		43	7.8	ug/Kg	☼	09/03/20 08:59	09/08/20 17:20	2.5
Indeno[1,2,3-cd]pyrene	190		43	21	ug/Kg	☼	09/03/20 08:59	09/08/20 17:20	2.5
Phenanthrene	1600		43	6.4	ug/Kg	☼	09/03/20 08:59	09/08/20 17:20	2.5
Pyrene	860		43	6.1	ug/Kg	☼	09/03/20 08:59	09/08/20 17:20	2.5
Acenaphthene	140		43	8.2	ug/Kg	☼	09/03/20 08:59	09/08/20 17:20	2.5
Acenaphthylene	55		43	11	ug/Kg	☼	09/03/20 08:59	09/08/20 17:20	2.5
Naphthalene	2300		43	6.9	ug/Kg	☼	09/03/20 08:59	09/08/20 17:20	2.5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*80*		*35 - 120*	*09/03/20 08:59*	*09/08/20 17:20*	*2.5*
2-Fluorophenol (Surr)	*67*		*26 - 120*	*09/03/20 08:59*	*09/08/20 17:20*	*2.5*
2,4,6-Tribromophenol (Surr)	*37*		*10 - 120*	*09/03/20 08:59*	*09/08/20 17:20*	*2.5*
Nitrobenzene-d5 (Surr)	*73*		*28 - 120*	*09/03/20 08:59*	*09/08/20 17:20*	*2.5*
Phenol-d5 (Surr)	*68*		*28 - 120*	*09/03/20 08:59*	*09/08/20 17:20*	*2.5*
Terphenyl-d14 (Surr)	*89*		*39 - 120*	*09/03/20 08:59*	*09/08/20 17:20*	*2.5*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<26		58	26	ug/Kg	☼	09/11/20 08:04	09/15/20 08:51	1
Aroclor-1221	<28		58	28	ug/Kg	☼	09/11/20 08:04	09/15/20 08:51	1
Aroclor-1232	<27		58	27	ug/Kg	☼	09/11/20 08:04	09/15/20 08:51	1
Aroclor-1242	33	J	58	22	ug/Kg	☼	09/11/20 08:04	09/15/20 08:51	1
Aroclor-1248	<28		58	28	ug/Kg	☼	09/11/20 08:04	09/15/20 08:51	1
Aroclor-1254	<27		58	27	ug/Kg	☼	09/11/20 08:04	09/15/20 08:51	1
Aroclor-1260	50	J	58	26	ug/Kg	☼	09/11/20 08:04	09/15/20 08:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*79*		*14 - 128*	*09/11/20 08:04*	*09/15/20 08:51*	*1*
DCB Decachlorobiphenyl	*125*		*10 - 132*	*09/11/20 08:04*	*09/15/20 08:51*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	88		22	0.40	mg/Kg	☼	09/02/20 14:00	09/03/20 23:02	1
Cadmium	0.54		0.22	0.053	mg/Kg	☼	09/02/20 14:00	09/03/20 23:02	1
Chromium	22		0.55	0.17	mg/Kg	☼	09/02/20 14:00	09/03/20 23:02	1
Silver	<0.090		0.55	0.090	mg/Kg	☼	09/02/20 14:00	09/03/20 23:02	1
Arsenic	33		1.1	0.35	mg/Kg	☼	09/02/20 14:00	09/03/20 23:02	1
Lead	37		1.1	0.31	mg/Kg	☼	09/02/20 14:00	09/03/20 23:02	1
Selenium	0.95	J	1.7	0.52	mg/Kg	☼	09/02/20 14:00	09/03/20 23:02	1
Nickel	39		4.4	0.26	mg/Kg	☼	09/02/20 14:00	09/03/20 23:02	1
Antimony	0.44	J	1.1	0.40	mg/Kg	☼	09/02/20 14:00	09/03/20 23:02	1

Client Sample Results

Client: EnviroScience Inc
Project/Site: Clark Ave Extension

Job ID: 240-135906-1

Client Sample ID: TP1_090120_S3

Date Collected: 09/01/20 10:20
Date Received: 09/01/20 14:00

Lab Sample ID: 240-135906-2

Matrix: Solid
Percent Solids: 87.5

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	180	J	550	70	mg/Kg	☼	09/02/20 14:00	09/03/20 23:02	1
Potassium	640		550	40	mg/Kg	☼	09/02/20 14:00	09/03/20 23:02	1
Beryllium	0.77		0.55	0.060	mg/Kg	☼	09/02/20 14:00	09/03/20 23:02	1
Thallium	<0.44		1.1	0.44	mg/Kg	☼	09/02/20 14:00	09/03/20 23:02	1
Calcium	46000		550	40	mg/Kg	☼	09/02/20 14:00	09/03/20 23:02	1
Iron	22000	^	11	7.7	mg/Kg	☼	09/02/20 14:00	09/03/20 23:02	1
Vanadium	15		5.5	0.91	mg/Kg	☼	09/02/20 14:00	09/03/20 23:02	1
Magnesium	6600		550	51	mg/Kg	☼	09/02/20 14:00	09/03/20 23:02	1
Copper	21		2.8	0.26	mg/Kg	☼	09/02/20 14:00	09/03/20 23:02	1
Aluminum	6800		22	5.9	mg/Kg	☼	09/02/20 14:00	09/03/20 23:02	1
Zinc	760		5.5	1.5	mg/Kg	☼	09/02/20 14:00	09/03/20 23:02	1
Manganese	740		1.7	0.34	mg/Kg	☼	09/02/20 14:00	09/03/20 23:02	1
Cobalt	7.4		1.1	0.22	mg/Kg	☼	09/02/20 14:00	09/03/20 23:02	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.18		0.11	0.020	mg/Kg	☼	09/02/20 14:00	09/04/20 10:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	87.5		0.1	0.1	%			09/03/20 16:00	1
Percent Moisture	12.5		0.1	0.1	%			09/03/20 16:00	1

Client Sample Results

Client: EnviroScience Inc
Project/Site: Clark Ave Extension

Job ID: 240-135906-1

Client Sample ID: TP2_090120_S4

Date Collected: 09/01/20 11:00
Date Received: 09/01/20 14:00

Lab Sample ID: 240-135906-3

Matrix: Solid
Percent Solids: 90.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<21		25	21	ug/Kg	☼	09/04/20 12:39	09/04/20 19:00	1
Benzene	<0.69		4.9	0.69	ug/Kg	☼	09/04/20 12:39	09/04/20 19:00	1
Dichlorobromomethane	<0.67		4.9	0.67	ug/Kg	☼	09/04/20 12:39	09/04/20 19:00	1
Bromoform	<2.4		4.9	2.4	ug/Kg	☼	09/04/20 12:39	09/04/20 19:00	1
Bromomethane	<0.97		4.9	0.97	ug/Kg	☼	09/04/20 12:39	09/04/20 19:00	1
2-Butanone (MEK)	<3.5		20	3.5	ug/Kg	☼	09/04/20 12:39	09/04/20 19:00	1
Carbon disulfide	<1.1		4.9	1.1	ug/Kg	☼	09/04/20 12:39	09/04/20 19:00	1
Carbon tetrachloride	<3.2		4.9	3.2	ug/Kg	☼	09/04/20 12:39	09/04/20 19:00	1
Chlorobenzene	<0.90		4.9	0.90	ug/Kg	☼	09/04/20 12:39	09/04/20 19:00	1
Chloroethane	<1.2		4.9	1.2	ug/Kg	☼	09/04/20 12:39	09/04/20 19:00	1
Chloroform	<0.78		4.9	0.78	ug/Kg	☼	09/04/20 12:39	09/04/20 19:00	1
Chloromethane	<1.0		4.9	1.0	ug/Kg	☼	09/04/20 12:39	09/04/20 19:00	1
1,1-Dichloroethane	<0.68		4.9	0.68	ug/Kg	☼	09/04/20 12:39	09/04/20 19:00	1
1,2-Dichloroethane	<0.76		4.9	0.76	ug/Kg	☼	09/04/20 12:39	09/04/20 19:00	1
1,1-Dichloroethene	<0.89		4.9	0.89	ug/Kg	☼	09/04/20 12:39	09/04/20 19:00	1
1,2-Dichloropropane	<0.84		4.9	0.84	ug/Kg	☼	09/04/20 12:39	09/04/20 19:00	1
cis-1,3-Dichloropropene	<1.4		4.9	1.4	ug/Kg	☼	09/04/20 12:39	09/04/20 19:00	1
trans-1,3-Dichloropropene	<1.0		4.9	1.0	ug/Kg	☼	09/04/20 12:39	09/04/20 19:00	1
Ethylbenzene	<1.0		4.9	1.0	ug/Kg	☼	09/04/20 12:39	09/04/20 19:00	1
2-Hexanone	<4.0		20	4.0	ug/Kg	☼	09/04/20 12:39	09/04/20 19:00	1
Methylene Chloride	<12		25	12	ug/Kg	☼	09/04/20 12:39	09/04/20 19:00	1
4-Methyl-2-pentanone (MIBK)	<3.7		20	3.7	ug/Kg	☼	09/04/20 12:39	09/04/20 19:00	1
Styrene	<1.1		4.9	1.1	ug/Kg	☼	09/04/20 12:39	09/04/20 19:00	1
1,1,2,2-Tetrachloroethane	<1.4		4.9	1.4	ug/Kg	☼	09/04/20 12:39	09/04/20 19:00	1
Tetrachloroethene	<0.72		4.9	0.72	ug/Kg	☼	09/04/20 12:39	09/04/20 19:00	1
Toluene	<0.76		4.9	0.76	ug/Kg	☼	09/04/20 12:39	09/04/20 19:00	1
Trichloroethene	<0.62		4.9	0.62	ug/Kg	☼	09/04/20 12:39	09/04/20 19:00	1
Vinyl chloride	<0.83		4.9	0.83	ug/Kg	☼	09/04/20 12:39	09/04/20 19:00	1
Xylenes, Total	<1.6		9.9	1.6	ug/Kg	☼	09/04/20 12:39	09/04/20 19:00	1
1,1,1-Trichloroethane	<0.81		4.9	0.81	ug/Kg	☼	09/04/20 12:39	09/04/20 19:00	1
1,1,2-Trichloroethane	<1.1		4.9	1.1	ug/Kg	☼	09/04/20 12:39	09/04/20 19:00	1
1,2-Dibromo-3-Chloropropane	<3.6		9.9	3.6	ug/Kg	☼	09/04/20 12:39	09/04/20 19:00	1
Ethylene Dibromide	<0.76		4.9	0.76	ug/Kg	☼	09/04/20 12:39	09/04/20 19:00	1
Dichlorodifluoromethane	<0.93		4.9	0.93	ug/Kg	☼	09/04/20 12:39	09/04/20 19:00	1
cis-1,2-Dichloroethene	<0.64		4.9	0.64	ug/Kg	☼	09/04/20 12:39	09/04/20 19:00	1
trans-1,2-Dichloroethene	<0.46		4.9	0.46	ug/Kg	☼	09/04/20 12:39	09/04/20 19:00	1
Isopropylbenzene	<0.82		4.9	0.82	ug/Kg	☼	09/04/20 12:39	09/04/20 19:00	1
Methyl tert-butyl ether	<0.81		4.9	0.81	ug/Kg	☼	09/04/20 12:39	09/04/20 19:00	1
1,2,4-Trichlorobenzene	<0.56		4.9	0.56	ug/Kg	☼	09/04/20 12:39	09/04/20 19:00	1
1,2-Dichlorobenzene	<1.1		4.9	1.1	ug/Kg	☼	09/04/20 12:39	09/04/20 19:00	1
1,3-Dichlorobenzene	<0.80		4.9	0.80	ug/Kg	☼	09/04/20 12:39	09/04/20 19:00	1
1,4-Dichlorobenzene	<0.87		4.9	0.87	ug/Kg	☼	09/04/20 12:39	09/04/20 19:00	1
Trichlorofluoromethane	<1.1		4.9	1.1	ug/Kg	☼	09/04/20 12:39	09/04/20 19:00	1
Chlorodibromomethane	<2.7		4.9	2.7	ug/Kg	☼	09/04/20 12:39	09/04/20 19:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*59 - 120*	*09/04/20 12:39*	*09/04/20 19:00*	*1*
4-Bromofluorobenzene (Surr)	*110*		*51 - 127*	*09/04/20 12:39*	*09/04/20 19:00*	*1*
Toluene-d8 (Surr)	*103*		*64 - 124*	*09/04/20 12:39*	*09/04/20 19:00*	*1*
Dibromofluoromethane (Surr)	*93*		*56 - 122*	*09/04/20 12:39*	*09/04/20 19:00*	*1*

Client Sample Results

Client: EnviroScience Inc
Project/Site: Clark Ave Extension

Job ID: 240-135906-1

Client Sample ID: TP2_090120_S4

Date Collected: 09/01/20 11:00
Date Received: 09/01/20 14:00

Lab Sample ID: 240-135906-3

Matrix: Solid
Percent Solids: 90.1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	660		33	7.6	ug/Kg	☼	09/03/20 08:59	09/09/20 17:58	2
Benzo[a]pyrene	730		33	21	ug/Kg	☼	09/03/20 08:59	09/09/20 17:58	2
Benzo[b]fluoranthene	980		33	14	ug/Kg	☼	09/03/20 08:59	09/09/20 17:58	2
Benzo[g,h,i]perylene	450		33	16	ug/Kg	☼	09/03/20 08:59	09/09/20 17:58	2
Benzo[k]fluoranthene	280		33	15	ug/Kg	☼	09/03/20 08:59	09/09/20 17:58	2
Anthracene	250		33	5.4	ug/Kg	☼	09/03/20 08:59	09/09/20 17:58	2
Chrysene	690		33	3.3	ug/Kg	☼	09/03/20 08:59	09/09/20 17:58	2
Dibenz(a,h)anthracene	130		33	15	ug/Kg	☼	09/03/20 08:59	09/09/20 17:58	2
Fluoranthene	1100		33	9.9	ug/Kg	☼	09/03/20 08:59	09/09/20 17:58	2
Fluorene	130		33	6.1	ug/Kg	☼	09/03/20 08:59	09/09/20 17:58	2
Indeno[1,2,3-cd]pyrene	410		33	16	ug/Kg	☼	09/03/20 08:59	09/09/20 17:58	2
Phenanthrene	1300		33	5.0	ug/Kg	☼	09/03/20 08:59	09/09/20 17:58	2
Pyrene	990		33	4.8	ug/Kg	☼	09/03/20 08:59	09/09/20 17:58	2
Acenaphthene	120		33	6.4	ug/Kg	☼	09/03/20 08:59	09/09/20 17:58	2
Acenaphthylene	43		33	8.9	ug/Kg	☼	09/03/20 08:59	09/09/20 17:58	2
Naphthalene	1800		33	5.4	ug/Kg	☼	09/03/20 08:59	09/09/20 17:58	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*79*		*35 - 120*	*09/03/20 08:59*	*09/09/20 17:58*	*2*
2-Fluorophenol (Surr)	*70*		*26 - 120*	*09/03/20 08:59*	*09/09/20 17:58*	*2*
2,4,6-Tribromophenol (Surr)	*48*		*10 - 120*	*09/03/20 08:59*	*09/09/20 17:58*	*2*
Nitrobenzene-d5 (Surr)	*77*		*28 - 120*	*09/03/20 08:59*	*09/09/20 17:58*	*2*
Phenol-d5 (Surr)	*74*		*28 - 120*	*09/03/20 08:59*	*09/09/20 17:58*	*2*
Terphenyl-d14 (Surr)	*97*		*39 - 120*	*09/03/20 08:59*	*09/09/20 17:58*	*2*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<23		53	23	ug/Kg	☼	09/03/20 08:01	09/09/20 14:11	1
Aroclor-1221	<26		53	26	ug/Kg	☼	09/03/20 08:01	09/09/20 14:11	1
Aroclor-1232	<25		53	25	ug/Kg	☼	09/03/20 08:01	09/09/20 14:11	1
Aroclor-1242	<20		53	20	ug/Kg	☼	09/03/20 08:01	09/09/20 14:11	1
Aroclor-1248	<26		53	26	ug/Kg	☼	09/03/20 08:01	09/09/20 14:11	1
Aroclor-1254	<25		53	25	ug/Kg	☼	09/03/20 08:01	09/09/20 14:11	1
Aroclor-1260	49	J	53	23	ug/Kg	☼	09/03/20 08:01	09/09/20 14:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*87*		*14 - 128*	*09/03/20 08:01*	*09/09/20 14:11*	*1*
DCB Decachlorobiphenyl	*122*		*10 - 132*	*09/03/20 08:01*	*09/09/20 14:11*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	83		18	0.32	mg/Kg	☼	09/02/20 14:00	09/03/20 23:06	1
Cadmium	0.43		0.18	0.043	mg/Kg	☼	09/02/20 14:00	09/03/20 23:06	1
Chromium	39		0.44	0.13	mg/Kg	☼	09/02/20 14:00	09/03/20 23:06	1
Silver	<0.072		0.44	0.072	mg/Kg	☼	09/02/20 14:00	09/03/20 23:06	1
Arsenic	16		0.89	0.28	mg/Kg	☼	09/02/20 14:00	09/03/20 23:06	1
Lead	32		0.89	0.25	mg/Kg	☼	09/02/20 14:00	09/03/20 23:06	1
Selenium	<0.42		1.3	0.42	mg/Kg	☼	09/02/20 14:00	09/03/20 23:06	1
Nickel	25		3.6	0.21	mg/Kg	☼	09/02/20 14:00	09/03/20 23:06	1
Antimony	0.33	J	0.89	0.32	mg/Kg	☼	09/02/20 14:00	09/03/20 23:06	1

Client Sample Results

Client: EnviroScience Inc
Project/Site: Clark Ave Extension

Job ID: 240-135906-1

Client Sample ID: TP2_090120_S4

Date Collected: 09/01/20 11:00
Date Received: 09/01/20 14:00

Lab Sample ID: 240-135906-3

Matrix: Solid
Percent Solids: 90.1

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	73	J	440	56	mg/Kg	☼	09/02/20 14:00	09/03/20 23:06	1
Potassium	550		440	32	mg/Kg	☼	09/02/20 14:00	09/03/20 23:06	1
Beryllium	0.56		0.44	0.048	mg/Kg	☼	09/02/20 14:00	09/03/20 23:06	1
Thallium	<0.35		0.89	0.35	mg/Kg	☼	09/02/20 14:00	09/03/20 23:06	1
Calcium	29000		440	32	mg/Kg	☼	09/02/20 14:00	09/03/20 23:06	1
Iron	22000	^	8.9	6.2	mg/Kg	☼	09/02/20 14:00	09/03/20 23:06	1
Vanadium	16		4.4	0.73	mg/Kg	☼	09/02/20 14:00	09/03/20 23:06	1
Magnesium	3200		440	41	mg/Kg	☼	09/02/20 14:00	09/03/20 23:06	1
Copper	18		2.2	0.21	mg/Kg	☼	09/02/20 14:00	09/03/20 23:06	1
Aluminum	5200		18	4.7	mg/Kg	☼	09/02/20 14:00	09/03/20 23:06	1
Zinc	100		4.4	1.2	mg/Kg	☼	09/02/20 14:00	09/03/20 23:06	1
Manganese	770		1.3	0.27	mg/Kg	☼	09/02/20 14:00	09/03/20 23:06	1
Cobalt	6.1		0.89	0.18	mg/Kg	☼	09/02/20 14:00	09/03/20 23:06	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.083	J	0.13	0.023	mg/Kg	☼	09/02/20 14:00	09/04/20 10:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	90.1		0.1	0.1	%			09/03/20 16:00	1
Percent Moisture	9.9		0.1	0.1	%			09/03/20 16:00	1

Client Sample Results

Client: EnviroScience Inc
Project/Site: Clark Ave Extension

Job ID: 240-135906-1

Client Sample ID: TP2_090120_S2

Date Collected: 09/01/20 11:05
Date Received: 09/01/20 14:00

Lab Sample ID: 240-135906-4

Matrix: Solid
Percent Solids: 90.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		27	23	ug/Kg	☼	09/04/20 12:39	09/04/20 19:22	1
Benzene	<0.76		5.4	0.76	ug/Kg	☼	09/04/20 12:39	09/04/20 19:22	1
Dichlorobromomethane	<0.74		5.4	0.74	ug/Kg	☼	09/04/20 12:39	09/04/20 19:22	1
Bromoform	<2.6		5.4	2.6	ug/Kg	☼	09/04/20 12:39	09/04/20 19:22	1
Bromomethane	<1.1		5.4	1.1	ug/Kg	☼	09/04/20 12:39	09/04/20 19:22	1
2-Butanone (MEK)	<3.9		22	3.9	ug/Kg	☼	09/04/20 12:39	09/04/20 19:22	1
Carbon disulfide	<1.3		5.4	1.3	ug/Kg	☼	09/04/20 12:39	09/04/20 19:22	1
Carbon tetrachloride	<3.5		5.4	3.5	ug/Kg	☼	09/04/20 12:39	09/04/20 19:22	1
Chlorobenzene	<0.99		5.4	0.99	ug/Kg	☼	09/04/20 12:39	09/04/20 19:22	1
Chloroethane	<1.3		5.4	1.3	ug/Kg	☼	09/04/20 12:39	09/04/20 19:22	1
Chloroform	<0.85		5.4	0.85	ug/Kg	☼	09/04/20 12:39	09/04/20 19:22	1
Chloromethane	<1.1		5.4	1.1	ug/Kg	☼	09/04/20 12:39	09/04/20 19:22	1
1,1-Dichloroethane	<0.75		5.4	0.75	ug/Kg	☼	09/04/20 12:39	09/04/20 19:22	1
1,2-Dichloroethane	<0.84		5.4	0.84	ug/Kg	☼	09/04/20 12:39	09/04/20 19:22	1
1,1-Dichloroethene	<0.98		5.4	0.98	ug/Kg	☼	09/04/20 12:39	09/04/20 19:22	1
1,2-Dichloropropane	<0.92		5.4	0.92	ug/Kg	☼	09/04/20 12:39	09/04/20 19:22	1
cis-1,3-Dichloropropene	<1.6		5.4	1.6	ug/Kg	☼	09/04/20 12:39	09/04/20 19:22	1
trans-1,3-Dichloropropene	<1.1		5.4	1.1	ug/Kg	☼	09/04/20 12:39	09/04/20 19:22	1
Ethylbenzene	<1.1		5.4	1.1	ug/Kg	☼	09/04/20 12:39	09/04/20 19:22	1
2-Hexanone	<4.4		22	4.4	ug/Kg	☼	09/04/20 12:39	09/04/20 19:22	1
Methylene Chloride	<13		27	13	ug/Kg	☼	09/04/20 12:39	09/04/20 19:22	1
4-Methyl-2-pentanone (MIBK)	<4.0		22	4.0	ug/Kg	☼	09/04/20 12:39	09/04/20 19:22	1
Styrene	<1.3		5.4	1.3	ug/Kg	☼	09/04/20 12:39	09/04/20 19:22	1
1,1,2,2-Tetrachloroethane	<1.5	*3	5.4	1.5	ug/Kg	☼	09/04/20 12:39	09/04/20 19:22	1
Tetrachloroethene	<0.79		5.4	0.79	ug/Kg	☼	09/04/20 12:39	09/04/20 19:22	1
Toluene	<0.84		5.4	0.84	ug/Kg	☼	09/04/20 12:39	09/04/20 19:22	1
Trichloroethene	<0.69		5.4	0.69	ug/Kg	☼	09/04/20 12:39	09/04/20 19:22	1
Vinyl chloride	<0.91		5.4	0.91	ug/Kg	☼	09/04/20 12:39	09/04/20 19:22	1
Xylenes, Total	<1.7		11	1.7	ug/Kg	☼	09/04/20 12:39	09/04/20 19:22	1
1,1,1-Trichloroethane	<0.89		5.4	0.89	ug/Kg	☼	09/04/20 12:39	09/04/20 19:22	1
1,1,2-Trichloroethane	<1.2		5.4	1.2	ug/Kg	☼	09/04/20 12:39	09/04/20 19:22	1
1,2-Dibromo-3-Chloropropane	<3.9	*3	11	3.9	ug/Kg	☼	09/04/20 12:39	09/04/20 19:22	1
Ethylene Dibromide	<0.83		5.4	0.83	ug/Kg	☼	09/04/20 12:39	09/04/20 19:22	1
Dichlorodifluoromethane	<1.0		5.4	1.0	ug/Kg	☼	09/04/20 12:39	09/04/20 19:22	1
cis-1,2-Dichloroethene	<0.71		5.4	0.71	ug/Kg	☼	09/04/20 12:39	09/04/20 19:22	1
trans-1,2-Dichloroethene	<0.50		5.4	0.50	ug/Kg	☼	09/04/20 12:39	09/04/20 19:22	1
Isopropylbenzene	<0.90		5.4	0.90	ug/Kg	☼	09/04/20 12:39	09/04/20 19:22	1
Methyl tert-butyl ether	<0.89		5.4	0.89	ug/Kg	☼	09/04/20 12:39	09/04/20 19:22	1
1,2,4-Trichlorobenzene	<0.62	*3	5.4	0.62	ug/Kg	☼	09/04/20 12:39	09/04/20 19:22	1
1,2-Dichlorobenzene	<1.2	*3	5.4	1.2	ug/Kg	☼	09/04/20 12:39	09/04/20 19:22	1
1,3-Dichlorobenzene	<0.88	*3	5.4	0.88	ug/Kg	☼	09/04/20 12:39	09/04/20 19:22	1
1,4-Dichlorobenzene	<0.96	*3	5.4	0.96	ug/Kg	☼	09/04/20 12:39	09/04/20 19:22	1
Trichlorofluoromethane	<1.2		5.4	1.2	ug/Kg	☼	09/04/20 12:39	09/04/20 19:22	1
Chlorodibromomethane	<3.0		5.4	3.0	ug/Kg	☼	09/04/20 12:39	09/04/20 19:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*59 - 120*	*09/04/20 12:39*	*09/04/20 19:22*	*1*
4-Bromofluorobenzene (Surr)	*120*	*3	*51 - 127*	*09/04/20 12:39*	*09/04/20 19:22*	*1*
Toluene-d8 (Surr)	*111*		*64 - 124*	*09/04/20 12:39*	*09/04/20 19:22*	*1*
Dibromofluoromethane (Surr)	*92*		*56 - 122*	*09/04/20 12:39*	*09/04/20 19:22*	*1*

Client Sample Results

Client: EnviroScience Inc
Project/Site: Clark Ave Extension

Job ID: 240-135906-1

Client Sample ID: TP2_090120_S2

Date Collected: 09/01/20 11:05
Date Received: 09/01/20 14:00

Lab Sample ID: 240-135906-4

Matrix: Solid
Percent Solids: 90.5

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	520	F1	82	19	ug/Kg	☼	09/03/20 08:59	09/11/20 18:58	5
Benzo[a]pyrene	520	F1	82	51	ug/Kg	☼	09/03/20 08:59	09/11/20 18:58	5
Benzo[b]fluoranthene	630	F1	82	35	ug/Kg	☼	09/03/20 08:59	09/11/20 18:58	5
Benzo[g,h,i]perylene	300		82	39	ug/Kg	☼	09/03/20 08:59	09/11/20 18:58	5
Benzo[k]fluoranthene	200		82	38	ug/Kg	☼	09/03/20 08:59	09/11/20 18:58	5
Anthracene	170	F1	82	13	ug/Kg	☼	09/03/20 08:59	09/11/20 18:58	5
Chrysene	550	F1	82	8.1	ug/Kg	☼	09/03/20 08:59	09/11/20 18:58	5
Dibenz(a,h)anthracene	73	J	82	38	ug/Kg	☼	09/03/20 08:59	09/11/20 18:58	5
Fluoranthene	890	F1	82	24	ug/Kg	☼	09/03/20 08:59	09/11/20 18:58	5
Fluorene	120		82	15	ug/Kg	☼	09/03/20 08:59	09/11/20 18:58	5
Indeno[1,2,3-cd]pyrene	220		82	40	ug/Kg	☼	09/03/20 08:59	09/11/20 18:58	5
Phenanthrene	1600	F1	82	12	ug/Kg	☼	09/03/20 08:59	09/11/20 18:58	5
Pyrene	780	F1	82	12	ug/Kg	☼	09/03/20 08:59	09/11/20 18:58	5
Acenaphthene	120		82	16	ug/Kg	☼	09/03/20 08:59	09/11/20 18:58	5
Acenaphthylene	51	J	82	22	ug/Kg	☼	09/03/20 08:59	09/11/20 18:58	5
Naphthalene	2600		82	13	ug/Kg	☼	09/03/20 08:59	09/11/20 18:58	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*90*		*35 - 120*	*09/03/20 08:59*	*09/11/20 18:58*	*5*
2-Fluorophenol (Surr)	*68*		*26 - 120*	*09/03/20 08:59*	*09/11/20 18:58*	*5*
2,4,6-Tribromophenol (Surr)	*61*		*10 - 120*	*09/03/20 08:59*	*09/11/20 18:58*	*5*
Nitrobenzene-d5 (Surr)	*82*		*28 - 120*	*09/03/20 08:59*	*09/11/20 18:58*	*5*
Phenol-d5 (Surr)	*77*		*28 - 120*	*09/03/20 08:59*	*09/11/20 18:58*	*5*
Terphenyl-d14 (Surr)	*98*		*39 - 120*	*09/03/20 08:59*	*09/11/20 18:58*	*5*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<24		54	24	ug/Kg	☼	09/03/20 08:01	09/09/20 14:29	1
Aroclor-1221	<26		54	26	ug/Kg	☼	09/03/20 08:01	09/09/20 14:29	1
Aroclor-1232	<25		54	25	ug/Kg	☼	09/03/20 08:01	09/09/20 14:29	1
Aroclor-1242	<20		54	20	ug/Kg	☼	09/03/20 08:01	09/09/20 14:29	1
Aroclor-1248	39	J	54	26	ug/Kg	☼	09/03/20 08:01	09/09/20 14:29	1
Aroclor-1254	<25		54	25	ug/Kg	☼	09/03/20 08:01	09/09/20 14:29	1
Aroclor-1260	33	J	54	24	ug/Kg	☼	09/03/20 08:01	09/09/20 14:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*98*		*14 - 128*	*09/03/20 08:01*	*09/09/20 14:29*	*1*
DCB Decachlorobiphenyl	*131*		*10 - 132*	*09/03/20 08:01*	*09/09/20 14:29*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	67		17	0.31	mg/Kg	☼	09/02/20 14:00	09/03/20 23:10	1
Cadmium	0.29		0.17	0.041	mg/Kg	☼	09/02/20 14:00	09/03/20 23:10	1
Chromium	29		0.42	0.13	mg/Kg	☼	09/02/20 14:00	09/03/20 23:10	1
Silver	<0.069		0.42	0.069	mg/Kg	☼	09/02/20 14:00	09/03/20 23:10	1
Arsenic	42		0.85	0.27	mg/Kg	☼	09/02/20 14:00	09/03/20 23:10	1
Lead	36		0.85	0.24	mg/Kg	☼	09/02/20 14:00	09/03/20 23:10	1
Selenium	0.63	J	1.3	0.40	mg/Kg	☼	09/02/20 14:00	09/03/20 23:10	1
Nickel	33		3.4	0.20	mg/Kg	☼	09/02/20 14:00	09/03/20 23:10	1
Antimony	0.69	J	0.85	0.31	mg/Kg	☼	09/02/20 14:00	09/03/20 23:10	1

Client Sample Results

Client: EnviroScience Inc
Project/Site: Clark Ave Extension

Job ID: 240-135906-1

Client Sample ID: TP2_090120_S2

Lab Sample ID: 240-135906-4

Date Collected: 09/01/20 11:05
Date Received: 09/01/20 14:00

Matrix: Solid
Percent Solids: 90.5

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	89	J	420	53	mg/Kg	☼	09/02/20 14:00	09/03/20 23:10	1
Potassium	450		420	31	mg/Kg	☼	09/02/20 14:00	09/03/20 23:10	1
Beryllium	0.52		0.42	0.046	mg/Kg	☼	09/02/20 14:00	09/03/20 23:10	1
Thallium	<0.34		0.85	0.34	mg/Kg	☼	09/02/20 14:00	09/03/20 23:10	1
Calcium	30000		420	31	mg/Kg	☼	09/02/20 14:00	09/03/20 23:10	1
Iron	20000	^	8.5	5.9	mg/Kg	☼	09/02/20 14:00	09/03/20 23:10	1
Vanadium	12		4.2	0.70	mg/Kg	☼	09/02/20 14:00	09/03/20 23:10	1
Magnesium	6300		420	39	mg/Kg	☼	09/02/20 14:00	09/03/20 23:10	1
Copper	22		2.1	0.20	mg/Kg	☼	09/02/20 14:00	09/03/20 23:10	1
Aluminum	4200		17	4.5	mg/Kg	☼	09/02/20 14:00	09/03/20 23:10	1
Zinc	91		4.2	1.2	mg/Kg	☼	09/02/20 14:00	09/03/20 23:10	1
Manganese	500		1.3	0.26	mg/Kg	☼	09/02/20 14:00	09/03/20 23:10	1
Cobalt	10		0.85	0.17	mg/Kg	☼	09/02/20 14:00	09/03/20 23:10	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091	J	0.10	0.018	mg/Kg	☼	09/02/20 14:00	09/04/20 10:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	90.5		0.1	0.1	%			09/03/20 16:00	1
Percent Moisture	9.5		0.1	0.1	%			09/03/20 16:00	1

Client Sample Results

Client: EnviroScience Inc
Project/Site: Clark Ave Extension

Job ID: 240-135906-1

Client Sample ID: TP3_090120_S1

Date Collected: 09/01/20 11:40
Date Received: 09/01/20 14:00

Lab Sample ID: 240-135906-5

Matrix: Solid
Percent Solids: 82.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<24		28	24	ug/Kg	☼	09/04/20 12:39	09/04/20 19:44	1
Benzene	<0.79		5.6	0.79	ug/Kg	☼	09/04/20 12:39	09/04/20 19:44	1
Dichlorobromomethane	<0.77		5.6	0.77	ug/Kg	☼	09/04/20 12:39	09/04/20 19:44	1
Bromoform	<2.7		5.6	2.7	ug/Kg	☼	09/04/20 12:39	09/04/20 19:44	1
Bromomethane	<1.1		5.6	1.1	ug/Kg	☼	09/04/20 12:39	09/04/20 19:44	1
2-Butanone (MEK)	<4.0		23	4.0	ug/Kg	☼	09/04/20 12:39	09/04/20 19:44	1
Carbon disulfide	<1.3		5.6	1.3	ug/Kg	☼	09/04/20 12:39	09/04/20 19:44	1
Carbon tetrachloride	<3.7		5.6	3.7	ug/Kg	☼	09/04/20 12:39	09/04/20 19:44	1
Chlorobenzene	<1.0		5.6	1.0	ug/Kg	☼	09/04/20 12:39	09/04/20 19:44	1
Chloroethane	<1.4		5.6	1.4	ug/Kg	☼	09/04/20 12:39	09/04/20 19:44	1
Chloroform	<0.89		5.6	0.89	ug/Kg	☼	09/04/20 12:39	09/04/20 19:44	1
Chloromethane	<1.2		5.6	1.2	ug/Kg	☼	09/04/20 12:39	09/04/20 19:44	1
1,1-Dichloroethane	<0.78		5.6	0.78	ug/Kg	☼	09/04/20 12:39	09/04/20 19:44	1
1,2-Dichloroethane	<0.87		5.6	0.87	ug/Kg	☼	09/04/20 12:39	09/04/20 19:44	1
1,1-Dichloroethene	<1.0		5.6	1.0	ug/Kg	☼	09/04/20 12:39	09/04/20 19:44	1
1,2-Dichloropropane	<0.96		5.6	0.96	ug/Kg	☼	09/04/20 12:39	09/04/20 19:44	1
cis-1,3-Dichloropropene	<1.6		5.6	1.6	ug/Kg	☼	09/04/20 12:39	09/04/20 19:44	1
trans-1,3-Dichloropropene	<1.2		5.6	1.2	ug/Kg	☼	09/04/20 12:39	09/04/20 19:44	1
Ethylbenzene	<1.2		5.6	1.2	ug/Kg	☼	09/04/20 12:39	09/04/20 19:44	1
2-Hexanone	<4.6		23	4.6	ug/Kg	☼	09/04/20 12:39	09/04/20 19:44	1
Methylene Chloride	<14		28	14	ug/Kg	☼	09/04/20 12:39	09/04/20 19:44	1
4-Methyl-2-pentanone (MIBK)	<4.2		23	4.2	ug/Kg	☼	09/04/20 12:39	09/04/20 19:44	1
Styrene	<1.3		5.6	1.3	ug/Kg	☼	09/04/20 12:39	09/04/20 19:44	1
1,1,2,2-Tetrachloroethane	<1.6		5.6	1.6	ug/Kg	☼	09/04/20 12:39	09/04/20 19:44	1
Tetrachloroethene	<0.82		5.6	0.82	ug/Kg	☼	09/04/20 12:39	09/04/20 19:44	1
Toluene	<0.87		5.6	0.87	ug/Kg	☼	09/04/20 12:39	09/04/20 19:44	1
Trichloroethene	<0.71		5.6	0.71	ug/Kg	☼	09/04/20 12:39	09/04/20 19:44	1
Vinyl chloride	<0.94		5.6	0.94	ug/Kg	☼	09/04/20 12:39	09/04/20 19:44	1
Xylenes, Total	<1.8		11	1.8	ug/Kg	☼	09/04/20 12:39	09/04/20 19:44	1
1,1,1-Trichloroethane	<0.92		5.6	0.92	ug/Kg	☼	09/04/20 12:39	09/04/20 19:44	1
1,1,2-Trichloroethane	<1.3		5.6	1.3	ug/Kg	☼	09/04/20 12:39	09/04/20 19:44	1
1,2-Dibromo-3-Chloropropane	<4.1		11	4.1	ug/Kg	☼	09/04/20 12:39	09/04/20 19:44	1
Ethylene Dibromide	<0.87		5.6	0.87	ug/Kg	☼	09/04/20 12:39	09/04/20 19:44	1
Dichlorodifluoromethane	<1.1		5.6	1.1	ug/Kg	☼	09/04/20 12:39	09/04/20 19:44	1
cis-1,2-Dichloroethene	<0.73		5.6	0.73	ug/Kg	☼	09/04/20 12:39	09/04/20 19:44	1
trans-1,2-Dichloroethene	<0.52		5.6	0.52	ug/Kg	☼	09/04/20 12:39	09/04/20 19:44	1
Isopropylbenzene	<0.94		5.6	0.94	ug/Kg	☼	09/04/20 12:39	09/04/20 19:44	1
Methyl tert-butyl ether	<0.92		5.6	0.92	ug/Kg	☼	09/04/20 12:39	09/04/20 19:44	1
1,2,4-Trichlorobenzene	<0.65		5.6	0.65	ug/Kg	☼	09/04/20 12:39	09/04/20 19:44	1
1,2-Dichlorobenzene	<1.3		5.6	1.3	ug/Kg	☼	09/04/20 12:39	09/04/20 19:44	1
1,3-Dichlorobenzene	<0.92		5.6	0.92	ug/Kg	☼	09/04/20 12:39	09/04/20 19:44	1
1,4-Dichlorobenzene	<0.99		5.6	0.99	ug/Kg	☼	09/04/20 12:39	09/04/20 19:44	1
Trichlorofluoromethane	<1.2		5.6	1.2	ug/Kg	☼	09/04/20 12:39	09/04/20 19:44	1
Chlorodibromomethane	<3.1		5.6	3.1	ug/Kg	☼	09/04/20 12:39	09/04/20 19:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*59 - 120*	*09/04/20 12:39*	*09/04/20 19:44*	*1*
4-Bromofluorobenzene (Surr)	*112*		*51 - 127*	*09/04/20 12:39*	*09/04/20 19:44*	*1*
Toluene-d8 (Surr)	*103*		*64 - 124*	*09/04/20 12:39*	*09/04/20 19:44*	*1*
Dibromofluoromethane (Surr)	*90*		*56 - 122*	*09/04/20 12:39*	*09/04/20 19:44*	*1*

Client Sample Results

Client: EnviroScience Inc
Project/Site: Clark Ave Extension

Job ID: 240-135906-1

Client Sample ID: TP3_090120_S1

Date Collected: 09/01/20 11:40
Date Received: 09/01/20 14:00

Lab Sample ID: 240-135906-5

Matrix: Solid
Percent Solids: 82.9

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	**19**		18	4.1	ug/Kg	☼	09/11/20 09:03	09/15/20 10:28	1
Benzo[a]pyrene	**35**		18	11	ug/Kg	☼	09/11/20 09:03	09/15/20 10:28	1
Benzo[b]fluoranthene	**36**		18	7.8	ug/Kg	☼	09/11/20 09:03	09/15/20 10:28	1
Benzo[g,h,i]perylene	**88**		18	8.5	ug/Kg	☼	09/11/20 09:03	09/15/20 10:28	1
Benzo[k]fluoranthene	**15**	**J**	18	8.3	ug/Kg	☼	09/11/20 09:03	09/15/20 10:28	1
Anthracene	<2.9		18	2.9	ug/Kg	☼	09/11/20 09:03	09/15/20 10:28	1
Chrysene	**30**		18	1.8	ug/Kg	☼	09/11/20 09:03	09/15/20 10:28	1
Dibenz(a,h)anthracene	<8.3		18	8.3	ug/Kg	☼	09/11/20 09:03	09/15/20 10:28	1
Fluoranthene	**36**		18	5.3	ug/Kg	☼	09/11/20 09:03	09/15/20 10:28	1
Fluorene	<3.3		18	3.3	ug/Kg	☼	09/11/20 09:03	09/15/20 10:28	1
Indeno[1,2,3-cd]pyrene	**19**		18	8.8	ug/Kg	☼	09/11/20 09:03	09/15/20 10:28	1
Phenanthrene	**36**		18	2.7	ug/Kg	☼	09/11/20 09:03	09/15/20 10:28	1
Pyrene	**38**		18	2.6	ug/Kg	☼	09/11/20 09:03	09/15/20 10:28	1
Acenaphthene	<3.4		18	3.4	ug/Kg	☼	09/11/20 09:03	09/15/20 10:28	1
Acenaphthylene	<4.8		18	4.8	ug/Kg	☼	09/11/20 09:03	09/15/20 10:28	1
Naphthalene	**27**		18	2.9	ug/Kg	☼	09/11/20 09:03	09/15/20 10:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*76*		*35 - 120*	*09/11/20 09:03*	*09/15/20 10:28*	*1*
2-Fluorophenol (Surr)	*58*		*26 - 120*	*09/11/20 09:03*	*09/15/20 10:28*	*1*
2,4,6-Tribromophenol (Surr)	*45*		*10 - 120*	*09/11/20 09:03*	*09/15/20 10:28*	*1*
Nitrobenzene-d5 (Surr)	*64*		*28 - 120*	*09/11/20 09:03*	*09/15/20 10:28*	*1*
Phenol-d5 (Surr)	*66*		*28 - 120*	*09/11/20 09:03*	*09/15/20 10:28*	*1*
Terphenyl-d14 (Surr)	*89*		*39 - 120*	*09/11/20 09:03*	*09/15/20 10:28*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<27		61	27	ug/Kg	☼	09/03/20 08:01	09/08/20 13:26	1
Aroclor-1221	<29		61	29	ug/Kg	☼	09/03/20 08:01	09/08/20 13:26	1
Aroclor-1232	<28		61	28	ug/Kg	☼	09/03/20 08:01	09/08/20 13:26	1
Aroclor-1242	<23		61	23	ug/Kg	☼	09/03/20 08:01	09/08/20 13:26	1
Aroclor-1248	<29		61	29	ug/Kg	☼	09/03/20 08:01	09/08/20 13:26	1
Aroclor-1254	<28		61	28	ug/Kg	☼	09/03/20 08:01	09/08/20 13:26	1
Aroclor-1260	<27		61	27	ug/Kg	☼	09/03/20 08:01	09/08/20 13:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*101*		*14 - 128*	*09/03/20 08:01*	*09/08/20 13:26*	*1*
DCB Decachlorobiphenyl	*134*	*X*	*10 - 132*	*09/03/20 08:01*	*09/08/20 13:26*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**100**		20	0.36	mg/Kg	☼	09/02/20 14:00	09/03/20 23:15	1
Cadmium	**0.38**		0.20	0.047	mg/Kg	☼	09/02/20 14:00	09/03/20 23:15	1
Chromium	**48**		0.49	0.15	mg/Kg	☼	09/02/20 14:00	09/03/20 23:15	1
Silver	<0.080		0.49	0.080	mg/Kg	☼	09/02/20 14:00	09/03/20 23:15	1
Arsenic	**10**		0.99	0.31	mg/Kg	☼	09/02/20 14:00	09/03/20 23:15	1
Lead	**18**		0.99	0.28	mg/Kg	☼	09/02/20 14:00	09/03/20 23:15	1
Selenium	**0.56**	**J**	1.5	0.46	mg/Kg	☼	09/02/20 14:00	09/03/20 23:15	1
Nickel	**37**		4.0	0.23	mg/Kg	☼	09/02/20 14:00	09/03/20 23:15	1
Antimony	<0.36		0.99	0.36	mg/Kg	☼	09/02/20 14:00	09/03/20 23:15	1

Client Sample Results

Client: EnviroScience Inc
Project/Site: Clark Ave Extension

Job ID: 240-135906-1

Client Sample ID: TP3_090120_S1

Date Collected: 09/01/20 11:40
Date Received: 09/01/20 14:00

Lab Sample ID: 240-135906-5

Matrix: Solid
Percent Solids: 82.9

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	<62		490	62	mg/Kg	☼	09/02/20 14:00	09/03/20 23:15	1
Potassium	**760**		490	36	mg/Kg	☼	09/02/20 14:00	09/03/20 23:15	1
Beryllium	**0.58**		0.49	0.053	mg/Kg	☼	09/02/20 14:00	09/03/20 23:15	1
Thallium	<0.39		0.99	0.39	mg/Kg	☼	09/02/20 14:00	09/03/20 23:15	1
Calcium	**5000**		490	36	mg/Kg	☼	09/02/20 14:00	09/03/20 23:15	1
Iron	**24000**	^	9.9	6.9	mg/Kg	☼	09/02/20 14:00	09/03/20 23:15	1
Vanadium	**25**		4.9	0.81	mg/Kg	☼	09/02/20 14:00	09/03/20 23:15	1
Magnesium	**2100**		490	46	mg/Kg	☼	09/02/20 14:00	09/03/20 23:15	1
Copper	**26**		2.5	0.23	mg/Kg	☼	09/02/20 14:00	09/03/20 23:15	1
Aluminum	**9800**		20	5.3	mg/Kg	☼	09/02/20 14:00	09/03/20 23:15	1
Zinc	**90**		4.9	1.4	mg/Kg	☼	09/02/20 14:00	09/03/20 23:15	1
Manganese	**720**		1.5	0.31	mg/Kg	☼	09/02/20 14:00	09/03/20 23:15	1
Cobalt	**10**		0.99	0.20	mg/Kg	☼	09/02/20 14:00	09/03/20 23:15	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.066**	**J**	0.14	0.025	mg/Kg	☼	09/02/20 14:00	09/04/20 10:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**82.9**		0.1	0.1	%			09/03/20 16:00	1
Percent Moisture	**17.1**		0.1	0.1	%			09/03/20 16:00	1

Client Sample Results

Client: EnviroScience Inc
Project/Site: Clark Ave Extension

Job ID: 240-135906-1

Client Sample ID: TP3_090120_S5

Date Collected: 09/01/20 11:35
Date Received: 09/01/20 14:00

Lab Sample ID: 240-135906-6

Matrix: Solid
Percent Solids: 84.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		28	23	ug/Kg	☼	09/04/20 12:39	09/04/20 20:06	1
Benzene	<0.78		5.6	0.78	ug/Kg	☼	09/04/20 12:39	09/04/20 20:06	1
Dichlorobromomethane	<0.75		5.6	0.75	ug/Kg	☼	09/04/20 12:39	09/04/20 20:06	1
Bromoform	<2.7		5.6	2.7	ug/Kg	☼	09/04/20 12:39	09/04/20 20:06	1
Bromomethane	<1.1		5.6	1.1	ug/Kg	☼	09/04/20 12:39	09/04/20 20:06	1
2-Butanone (MEK)	<3.9		22	3.9	ug/Kg	☼	09/04/20 12:39	09/04/20 20:06	1
Carbon disulfide	<1.3		5.6	1.3	ug/Kg	☼	09/04/20 12:39	09/04/20 20:06	1
Carbon tetrachloride	<3.6		5.6	3.6	ug/Kg	☼	09/04/20 12:39	09/04/20 20:06	1
Chlorobenzene	<1.0		5.6	1.0	ug/Kg	☼	09/04/20 12:39	09/04/20 20:06	1
Chloroethane	<1.4		5.6	1.4	ug/Kg	☼	09/04/20 12:39	09/04/20 20:06	1
Chloroform	<0.88		5.6	0.88	ug/Kg	☼	09/04/20 12:39	09/04/20 20:06	1
Chloromethane	<1.2		5.6	1.2	ug/Kg	☼	09/04/20 12:39	09/04/20 20:06	1
1,1-Dichloroethane	<0.77		5.6	0.77	ug/Kg	☼	09/04/20 12:39	09/04/20 20:06	1
1,2-Dichloroethane	<0.86		5.6	0.86	ug/Kg	☼	09/04/20 12:39	09/04/20 20:06	1
1,1-Dichloroethene	<1.0		5.6	1.0	ug/Kg	☼	09/04/20 12:39	09/04/20 20:06	1
1,2-Dichloropropane	<0.95		5.6	0.95	ug/Kg	☼	09/04/20 12:39	09/04/20 20:06	1
cis-1,3-Dichloropropene	<1.6		5.6	1.6	ug/Kg	☼	09/04/20 12:39	09/04/20 20:06	1
trans-1,3-Dichloropropene	<1.1		5.6	1.1	ug/Kg	☼	09/04/20 12:39	09/04/20 20:06	1
Ethylbenzene	<1.2		5.6	1.2	ug/Kg	☼	09/04/20 12:39	09/04/20 20:06	1
2-Hexanone	<4.5		22	4.5	ug/Kg	☼	09/04/20 12:39	09/04/20 20:06	1
Methylene Chloride	<13		28	13	ug/Kg	☼	09/04/20 12:39	09/04/20 20:06	1
4-Methyl-2-pentanone (MIBK)	<4.1		22	4.1	ug/Kg	☼	09/04/20 12:39	09/04/20 20:06	1
Styrene	<1.3		5.6	1.3	ug/Kg	☼	09/04/20 12:39	09/04/20 20:06	1
1,1,2,2-Tetrachloroethane	<1.6	*3	5.6	1.6	ug/Kg	☼	09/04/20 12:39	09/04/20 20:06	1
Tetrachloroethene	<0.81		5.6	0.81	ug/Kg	☼	09/04/20 12:39	09/04/20 20:06	1
Toluene	<0.86		5.6	0.86	ug/Kg	☼	09/04/20 12:39	09/04/20 20:06	1
Trichloroethene	<0.70		5.6	0.70	ug/Kg	☼	09/04/20 12:39	09/04/20 20:06	1
Vinyl chloride	<0.93		5.6	0.93	ug/Kg	☼	09/04/20 12:39	09/04/20 20:06	1
Xylenes, Total	<1.8		11	1.8	ug/Kg	☼	09/04/20 12:39	09/04/20 20:06	1
1,1,1-Trichloroethane	<0.91		5.6	0.91	ug/Kg	☼	09/04/20 12:39	09/04/20 20:06	1
1,1,2-Trichloroethane	<1.3		5.6	1.3	ug/Kg	☼	09/04/20 12:39	09/04/20 20:06	1
1,2-Dibromo-3-Chloropropane	<4.0	*3	11	4.0	ug/Kg	☼	09/04/20 12:39	09/04/20 20:06	1
Ethylene Dibromide	<0.86		5.6	0.86	ug/Kg	☼	09/04/20 12:39	09/04/20 20:06	1
Dichlorodifluoromethane	<1.0		5.6	1.0	ug/Kg	☼	09/04/20 12:39	09/04/20 20:06	1
cis-1,2-Dichloroethene	<0.72		5.6	0.72	ug/Kg	☼	09/04/20 12:39	09/04/20 20:06	1
trans-1,2-Dichloroethene	<0.52		5.6	0.52	ug/Kg	☼	09/04/20 12:39	09/04/20 20:06	1
Isopropylbenzene	<0.92		5.6	0.92	ug/Kg	☼	09/04/20 12:39	09/04/20 20:06	1
Methyl tert-butyl ether	<0.91		5.6	0.91	ug/Kg	☼	09/04/20 12:39	09/04/20 20:06	1
1,2,4-Trichlorobenzene	<0.64	*3	5.6	0.64	ug/Kg	☼	09/04/20 12:39	09/04/20 20:06	1
1,2-Dichlorobenzene	<1.2	*3	5.6	1.2	ug/Kg	☼	09/04/20 12:39	09/04/20 20:06	1
1,3-Dichlorobenzene	<0.91	*3	5.6	0.91	ug/Kg	☼	09/04/20 12:39	09/04/20 20:06	1
1,4-Dichlorobenzene	<0.98	*3	5.6	0.98	ug/Kg	☼	09/04/20 12:39	09/04/20 20:06	1
Trichlorofluoromethane	<1.2		5.6	1.2	ug/Kg	☼	09/04/20 12:39	09/04/20 20:06	1
Chlorodibromomethane	<3.1		5.6	3.1	ug/Kg	☼	09/04/20 12:39	09/04/20 20:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*59 - 120*	*09/04/20 12:39*	*09/04/20 20:06*	*1*
4-Bromofluorobenzene (Surr)	*126*	*3*	*51 - 127*	*09/04/20 12:39*	*09/04/20 20:06*	*1*
Toluene-d8 (Surr)	*114*		*64 - 124*	*09/04/20 12:39*	*09/04/20 20:06*	*1*
Dibromofluoromethane (Surr)	*97*		*56 - 122*	*09/04/20 12:39*	*09/04/20 20:06*	*1*

Client Sample Results

Client: EnviroScience Inc
Project/Site: Clark Ave Extension

Job ID: 240-135906-1

Client Sample ID: TP3_090120_S5

Date Collected: 09/01/20 11:35
Date Received: 09/01/20 14:00

Lab Sample ID: 240-135906-6

Matrix: Solid
Percent Solids: 84.5

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	480		72	16	ug/Kg	☼	09/09/20 09:23	09/15/20 13:11	4
Benzo[a]pyrene	500		72	45	ug/Kg	☼	09/09/20 09:23	09/15/20 13:11	4
Benzo[b]fluoranthene	530		72	31	ug/Kg	☼	09/09/20 09:23	09/15/20 13:11	4
Benzo[g,h,i]perylene	290		72	34	ug/Kg	☼	09/09/20 09:23	09/15/20 13:11	4
Benzo[k]fluoranthene	140		72	33	ug/Kg	☼	09/09/20 09:23	09/15/20 13:11	4
Anthracene	200		72	12	ug/Kg	☼	09/09/20 09:23	09/15/20 13:11	4
Chrysene	490		72	7.1	ug/Kg	☼	09/09/20 09:23	09/15/20 13:11	4
Dibenz(a,h)anthracene	<33		72	33	ug/Kg	☼	09/09/20 09:23	09/15/20 13:11	4
Fluoranthene	720		72	21	ug/Kg	☼	09/09/20 09:23	09/15/20 13:11	4
Fluorene	150		72	13	ug/Kg	☼	09/09/20 09:23	09/15/20 13:11	4
Indeno[1,2,3-cd]pyrene	160		72	35	ug/Kg	☼	09/09/20 09:23	09/15/20 13:11	4
Phenanthrene	2000		72	11	ug/Kg	☼	09/09/20 09:23	09/15/20 13:11	4
Pyrene	670		72	10	ug/Kg	☼	09/09/20 09:23	09/15/20 13:11	4
Acenaphthene	110		72	14	ug/Kg	☼	09/09/20 09:23	09/15/20 13:11	4
Acenaphthylene	68	J	72	19	ug/Kg	☼	09/09/20 09:23	09/15/20 13:11	4
Naphthalene	4100		72	12	ug/Kg	☼	09/09/20 09:23	09/15/20 13:11	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*69*		*35 - 120*	*09/09/20 09:23*	*09/15/20 13:11*	*4*
2-Fluorophenol (Surr)	*77*		*26 - 120*	*09/09/20 09:23*	*09/15/20 13:11*	*4*
2,4,6-Tribromophenol (Surr)	*79*		*10 - 120*	*09/09/20 09:23*	*09/15/20 13:11*	*4*
Nitrobenzene-d5 (Surr)	*85*		*28 - 120*	*09/09/20 09:23*	*09/15/20 13:11*	*4*
Phenol-d5 (Surr)	*78*		*28 - 120*	*09/09/20 09:23*	*09/15/20 13:11*	*4*
Terphenyl-d14 (Surr)	*93*		*39 - 120*	*09/09/20 09:23*	*09/15/20 13:11*	*4*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<26		58	26	ug/Kg	☼	09/03/20 08:01	09/08/20 13:42	1
Aroclor-1221	<28		58	28	ug/Kg	☼	09/03/20 08:01	09/08/20 13:42	1
Aroclor-1232	<27		58	27	ug/Kg	☼	09/03/20 08:01	09/08/20 13:42	1
Aroclor-1242	<22		58	22	ug/Kg	☼	09/03/20 08:01	09/08/20 13:42	1
Aroclor-1248	<28		58	28	ug/Kg	☼	09/03/20 08:01	09/08/20 13:42	1
Aroclor-1254	<27		58	27	ug/Kg	☼	09/03/20 08:01	09/08/20 13:42	1
Aroclor-1260	<26		58	26	ug/Kg	☼	09/03/20 08:01	09/08/20 13:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*95*		*14 - 128*	*09/03/20 08:01*	*09/08/20 13:42*	*1*
DCB Decachlorobiphenyl	*122*		*10 - 132*	*09/03/20 08:01*	*09/08/20 13:42*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	52		16	0.29	mg/Kg	☼	09/02/20 14:00	09/03/20 23:19	1
Cadmium	0.31		0.16	0.039	mg/Kg	☼	09/02/20 14:00	09/03/20 23:19	1
Chromium	21		0.40	0.12	mg/Kg	☼	09/02/20 14:00	09/03/20 23:19	1
Silver	<0.065		0.40	0.065	mg/Kg	☼	09/02/20 14:00	09/03/20 23:19	1
Arsenic	18		0.81	0.25	mg/Kg	☼	09/02/20 14:00	09/03/20 23:19	1
Lead	22		0.81	0.23	mg/Kg	☼	09/02/20 14:00	09/03/20 23:19	1
Selenium	0.63	J	1.2	0.38	mg/Kg	☼	09/02/20 14:00	09/03/20 23:19	1
Nickel	27		3.2	0.19	mg/Kg	☼	09/02/20 14:00	09/03/20 23:19	1
Antimony	0.49	J	0.81	0.29	mg/Kg	☼	09/02/20 14:00	09/03/20 23:19	1

Client Sample Results

Client: EnviroScience Inc
Project/Site: Clark Ave Extension

Job ID: 240-135906-1

Client Sample ID: TP3_090120_S5

Date Collected: 09/01/20 11:35
Date Received: 09/01/20 14:00

Lab Sample ID: 240-135906-6

Matrix: Solid
Percent Solids: 84.5

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	84	J	400	51	mg/Kg	☼	09/02/20 14:00	09/03/20 23:19	1
Potassium	850		400	29	mg/Kg	☼	09/02/20 14:00	09/03/20 23:19	1
Beryllium	0.59		0.40	0.043	mg/Kg	☼	09/02/20 14:00	09/03/20 23:19	1
Thallium	<0.32		0.81	0.32	mg/Kg	☼	09/02/20 14:00	09/03/20 23:19	1
Calcium	21000		400	29	mg/Kg	☼	09/02/20 14:00	09/03/20 23:19	1
Iron	16000	^	8.1	5.6	mg/Kg	☼	09/02/20 14:00	09/03/20 23:19	1
Vanadium	12		4.0	0.66	mg/Kg	☼	09/02/20 14:00	09/03/20 23:19	1
Magnesium	2200		400	37	mg/Kg	☼	09/02/20 14:00	09/03/20 23:19	1
Copper	25		2.0	0.19	mg/Kg	☼	09/02/20 14:00	09/03/20 23:19	1
Aluminum	5200		16	4.3	mg/Kg	☼	09/02/20 14:00	09/03/20 23:19	1
Zinc	120		4.0	1.1	mg/Kg	☼	09/02/20 14:00	09/03/20 23:19	1
Manganese	340		1.2	0.25	mg/Kg	☼	09/02/20 14:00	09/03/20 23:19	1
Cobalt	9.3		0.81	0.16	mg/Kg	☼	09/02/20 14:00	09/03/20 23:19	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.14		0.13	0.023	mg/Kg	☼	09/02/20 14:00	09/04/20 10:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	84.5		0.1	0.1	%			09/03/20 16:00	1
Percent Moisture	15.5		0.1	0.1	%			09/03/20 16:00	1

Client Sample Results

Client: EnviroScience Inc
Project/Site: Clark Ave Extension

Job ID: 240-135906-1

Client Sample ID: TP4_090120_S4

Date Collected: 09/01/20 12:20
Date Received: 09/01/20 14:00

Lab Sample ID: 240-135906-7

Matrix: Solid
Percent Solids: 80.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**87**	***3**	31	26	ug/Kg	☼	09/08/20 11:17	09/08/20 15:43	1
Benzene	**2.5**	**J *3**	6.1	0.85	ug/Kg	☼	09/08/20 11:17	09/08/20 15:43	1
Dichlorobromomethane	<0.83	*3	6.1	0.83	ug/Kg	☼	09/08/20 11:17	09/08/20 15:43	1
Bromoform	<2.9	*3	6.1	2.9	ug/Kg	☼	09/08/20 11:17	09/08/20 15:43	1
Bromomethane	<1.2	*3	6.1	1.2	ug/Kg	☼	09/08/20 11:17	09/08/20 15:43	1
2-Butanone (MEK)	**11**	**J *3**	24	4.3	ug/Kg	☼	09/08/20 11:17	09/08/20 15:43	1
Carbon disulfide	**4.1**	**J *3**	6.1	1.4	ug/Kg	☼	09/08/20 11:17	09/08/20 15:43	1
Carbon tetrachloride	<4.0	*3	6.1	4.0	ug/Kg	☼	09/08/20 11:17	09/08/20 15:43	1
Chlorobenzene	<1.1	*3	6.1	1.1	ug/Kg	☼	09/08/20 11:17	09/08/20 15:43	1
Chloroethane	<1.5	*3	6.1	1.5	ug/Kg	☼	09/08/20 11:17	09/08/20 15:43	1
Chloroform	<0.96	*3	6.1	0.96	ug/Kg	☼	09/08/20 11:17	09/08/20 15:43	1
Chloromethane	<1.3	*3	6.1	1.3	ug/Kg	☼	09/08/20 11:17	09/08/20 15:43	1
1,1-Dichloroethane	<0.85	*3	6.1	0.85	ug/Kg	☼	09/08/20 11:17	09/08/20 15:43	1
1,2-Dichloroethane	<0.94	*3	6.1	0.94	ug/Kg	☼	09/08/20 11:17	09/08/20 15:43	1
1,1-Dichloroethene	<1.1	*3	6.1	1.1	ug/Kg	☼	09/08/20 11:17	09/08/20 15:43	1
1,2-Dichloropropane	<1.0	*3	6.1	1.0	ug/Kg	☼	09/08/20 11:17	09/08/20 15:43	1
cis-1,3-Dichloropropene	<1.8	*3	6.1	1.8	ug/Kg	☼	09/08/20 11:17	09/08/20 15:43	1
trans-1,3-Dichloropropene	<1.3	*3	6.1	1.3	ug/Kg	☼	09/08/20 11:17	09/08/20 15:43	1
Ethylbenzene	**4.2**	**J *3**	6.1	1.3	ug/Kg	☼	09/08/20 11:17	09/08/20 15:43	1
2-Hexanone	<5.0	*3	24	5.0	ug/Kg	☼	09/08/20 11:17	09/08/20 15:43	1
Methylene Chloride	<15	*3	31	15	ug/Kg	☼	09/08/20 11:17	09/08/20 15:43	1
4-Methyl-2-pentanone (MIBK)	<4.5	*3 F1	24	4.5	ug/Kg	☼	09/08/20 11:17	09/08/20 15:43	1
Styrene	<1.4	*3	6.1	1.4	ug/Kg	☼	09/08/20 11:17	09/08/20 15:43	1
1,1,2,2-Tetrachloroethane	<1.7	*3 F1	6.1	1.7	ug/Kg	☼	09/08/20 11:17	09/08/20 15:43	1
Tetrachloroethene	<0.89	*3 F1	6.1	0.89	ug/Kg	☼	09/08/20 11:17	09/08/20 15:43	1
Toluene	**6.7**	***3**	6.1	0.94	ug/Kg	☼	09/08/20 11:17	09/08/20 15:43	1
Trichloroethene	<0.77	*3	6.1	0.77	ug/Kg	☼	09/08/20 11:17	09/08/20 15:43	1
Vinyl chloride	<1.0	*3	6.1	1.0	ug/Kg	☼	09/08/20 11:17	09/08/20 15:43	1
Xylenes, Total	**5.3**	**J *3**	12	1.9	ug/Kg	☼	09/08/20 11:17	09/08/20 15:43	1
1,1,1-Trichloroethane	<1.0	*3	6.1	1.0	ug/Kg	☼	09/08/20 11:17	09/08/20 15:43	1
1,1,2-Trichloroethane	<1.4	*3	6.1	1.4	ug/Kg	☼	09/08/20 11:17	09/08/20 15:43	1
1,2-Dibromo-3-Chloropropane	<4.4	*3	12	4.4	ug/Kg	☼	09/08/20 11:17	09/08/20 15:43	1
Ethylene Dibromide	<0.94	*3	6.1	0.94	ug/Kg	☼	09/08/20 11:17	09/08/20 15:43	1
Dichlorodifluoromethane	<1.2	*3	6.1	1.2	ug/Kg	☼	09/08/20 11:17	09/08/20 15:43	1
cis-1,2-Dichloroethene	<0.80	*3	6.1	0.80	ug/Kg	☼	09/08/20 11:17	09/08/20 15:43	1
trans-1,2-Dichloroethene	<0.57	*3	6.1	0.57	ug/Kg	☼	09/08/20 11:17	09/08/20 15:43	1
Isopropylbenzene	**1.5**	**J *3**	6.1	1.0	ug/Kg	☼	09/08/20 11:17	09/08/20 15:43	1
Methyl tert-butyl ether	<1.0	*3	6.1	1.0	ug/Kg	☼	09/08/20 11:17	09/08/20 15:43	1
1,2,4-Trichlorobenzene	<0.70	*3	6.1	0.70	ug/Kg	☼	09/08/20 11:17	09/08/20 15:43	1
1,2-Dichlorobenzene	<1.4	*3	6.1	1.4	ug/Kg	☼	09/08/20 11:17	09/08/20 15:43	1
1,3-Dichlorobenzene	<1.0	*3	6.1	1.0	ug/Kg	☼	09/08/20 11:17	09/08/20 15:43	1
1,4-Dichlorobenzene	<1.1	*3	6.1	1.1	ug/Kg	☼	09/08/20 11:17	09/08/20 15:43	1
Trichlorofluoromethane	<1.3	*3	6.1	1.3	ug/Kg	☼	09/08/20 11:17	09/08/20 15:43	1
Chlorodibromomethane	<3.4	*3	6.1	3.4	ug/Kg	☼	09/08/20 11:17	09/08/20 15:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*85*	**3*	*59 - 120*	*09/08/20 11:17*	*09/08/20 15:43*	*1*
4-Bromofluorobenzene (Surr)	*130*	**3 X*	*51 - 127*	*09/08/20 11:17*	*09/08/20 15:43*	*1*
Toluene-d8 (Surr)	*183*	**3 X*	*64 - 124*	*09/08/20 11:17*	*09/08/20 15:43*	*1*
Dibromofluoromethane (Surr)	*104*	**3*	*56 - 122*	*09/08/20 11:17*	*09/08/20 15:43*	*1*

Client Sample Results

Client: EnviroScience Inc
Project/Site: Clark Ave Extension

Job ID: 240-135906-1

Client Sample ID: TP4_090120_S4

Date Collected: 09/01/20 12:20
Date Received: 09/01/20 14:00

Lab Sample ID: 240-135906-7

Matrix: Solid
Percent Solids: 80.7

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	1500		190	43	ug/Kg	☼	09/09/20 09:23	09/15/20 12:48	10
Benzo[a]pyrene	1300		190	120	ug/Kg	☼	09/09/20 09:23	09/15/20 12:48	10
Benzo[b]fluoranthene	1400		190	81	ug/Kg	☼	09/09/20 09:23	09/15/20 12:48	10
Benzo[g,h,i]perylene	730		190	89	ug/Kg	☼	09/09/20 09:23	09/15/20 12:48	10
Benzo[k]fluoranthene	370		190	86	ug/Kg	☼	09/09/20 09:23	09/15/20 12:48	10
Anthracene	750	*3	190	30	ug/Kg	☼	09/09/20 09:23	09/15/20 12:48	10
Chrysene	1600		190	19	ug/Kg	☼	09/09/20 09:23	09/15/20 12:48	10
Dibenz(a,h)anthracene	<86		190	86	ug/Kg	☼	09/09/20 09:23	09/15/20 12:48	10
Fluoranthene	2100	*3	190	56	ug/Kg	☼	09/09/20 09:23	09/15/20 12:48	10
Fluorene	1400		190	34	ug/Kg	☼	09/09/20 09:23	09/15/20 12:48	10
Indeno[1,2,3-cd]pyrene	320		190	92	ug/Kg	☼	09/09/20 09:23	09/15/20 12:48	10
Phenanthrene	9300	*3	190	28	ug/Kg	☼	09/09/20 09:23	09/15/20 12:48	10
Pyrene	2700		190	27	ug/Kg	☼	09/09/20 09:23	09/15/20 12:48	10
Acenaphthene	730		190	36	ug/Kg	☼	09/09/20 09:23	09/15/20 12:48	10
Acenaphthylene	370		190	50	ug/Kg	☼	09/09/20 09:23	09/15/20 12:48	10
Naphthalene	13000		190	30	ug/Kg	☼	09/09/20 09:23	09/15/20 12:48	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*72*		*35 - 120*	*09/09/20 09:23*	*09/15/20 12:48*	*10*
2-Fluorophenol (Surr)	*68*		*26 - 120*	*09/09/20 09:23*	*09/15/20 12:48*	*10*
2,4,6-Tribromophenol (Surr)	*115*		*10 - 120*	*09/09/20 09:23*	*09/15/20 12:48*	*10*
Nitrobenzene-d5 (Surr)	*92*		*28 - 120*	*09/09/20 09:23*	*09/15/20 12:48*	*10*
Phenol-d5 (Surr)	*88*		*28 - 120*	*09/09/20 09:23*	*09/15/20 12:48*	*10*
Terphenyl-d14 (Surr)	*96*		*39 - 120*	*09/09/20 09:23*	*09/15/20 12:48*	*10*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<27		62	27	ug/Kg	☼	09/03/20 08:01	09/08/20 13:58	1
Aroclor-1221	<30		62	30	ug/Kg	☼	09/03/20 08:01	09/08/20 13:58	1
Aroclor-1232	<28		62	28	ug/Kg	☼	09/03/20 08:01	09/08/20 13:58	1
Aroclor-1242	<23		62	23	ug/Kg	☼	09/03/20 08:01	09/08/20 13:58	1
Aroclor-1248	<30		62	30	ug/Kg	☼	09/03/20 08:01	09/08/20 13:58	1
Aroclor-1254	<28		62	28	ug/Kg	☼	09/03/20 08:01	09/08/20 13:58	1
Aroclor-1260	<27		62	27	ug/Kg	☼	09/03/20 08:01	09/08/20 13:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*89*		*14 - 128*	*09/03/20 08:01*	*09/08/20 13:58*	*1*
DCB Decachlorobiphenyl	*114*		*10 - 132*	*09/03/20 08:01*	*09/08/20 13:58*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	110		23	0.42	mg/Kg	☼	09/02/20 14:00	09/03/20 23:23	1
Cadmium	0.13	J	0.23	0.056	mg/Kg	☼	09/02/20 14:00	09/03/20 23:23	1
Chromium	11		0.58	0.17	mg/Kg	☼	09/02/20 14:00	09/03/20 23:23	1
Silver	<0.094		0.58	0.094	mg/Kg	☼	09/02/20 14:00	09/03/20 23:23	1
Arsenic	25		1.2	0.37	mg/Kg	☼	09/02/20 14:00	09/03/20 23:23	1
Lead	40		1.2	0.33	mg/Kg	☼	09/02/20 14:00	09/03/20 23:23	1
Selenium	3.4		1.7	0.54	mg/Kg	☼	09/02/20 14:00	09/03/20 23:23	1
Nickel	13		4.6	0.27	mg/Kg	☼	09/02/20 14:00	09/03/20 23:23	1
Antimony	0.63	J	1.2	0.42	mg/Kg	☼	09/02/20 14:00	09/03/20 23:23	1

Client Sample Results

Client: EnviroScience Inc
Project/Site: Clark Ave Extension

Job ID: 240-135906-1

Client Sample ID: TP4_090120_S4

Date Collected: 09/01/20 12:20
Date Received: 09/01/20 14:00

Lab Sample ID: 240-135906-7

Matrix: Solid
Percent Solids: 80.7

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	470	J	580	73	mg/Kg	☼	09/02/20 14:00	09/03/20 23:23	1
Potassium	270	J	580	42	mg/Kg	☼	09/02/20 14:00	09/03/20 23:23	1
Beryllium	1.2		0.58	0.063	mg/Kg	☼	09/02/20 14:00	09/03/20 23:23	1
Thallium	1.4		1.2	0.46	mg/Kg	☼	09/02/20 14:00	09/03/20 23:23	1
Calcium	5300		580	42	mg/Kg	☼	09/02/20 14:00	09/03/20 23:23	1
Iron	19000	^	12	8.0	mg/Kg	☼	09/02/20 14:00	09/03/20 23:23	1
Vanadium	14		5.8	0.95	mg/Kg	☼	09/02/20 14:00	09/03/20 23:23	1
Magnesium	310	J	580	53	mg/Kg	☼	09/02/20 14:00	09/03/20 23:23	1
Copper	13		2.9	0.27	mg/Kg	☼	09/02/20 14:00	09/03/20 23:23	1
Aluminum	1800		23	6.2	mg/Kg	☼	09/02/20 14:00	09/03/20 23:23	1
Zinc	26		5.8	1.6	mg/Kg	☼	09/02/20 14:00	09/03/20 23:23	1
Manganese	99		1.7	0.36	mg/Kg	☼	09/02/20 14:00	09/03/20 23:23	1
Cobalt	1.7		1.2	0.23	mg/Kg	☼	09/02/20 14:00	09/03/20 23:23	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.36		0.13	0.024	mg/Kg	☼	09/02/20 14:00	09/04/20 10:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	80.7		0.1	0.1	%			09/03/20 16:00	1
Percent Moisture	19.3		0.1	0.1	%			09/03/20 16:00	1

Client Sample Results

Client: EnviroScience Inc
Project/Site: Clark Ave Extension

Job ID: 240-135906-1

Client Sample ID: TP4_090120_S5

Date Collected: 09/01/20 12:15
Date Received: 09/01/20 14:00

Lab Sample ID: 240-135906-8

Matrix: Solid
Percent Solids: 85.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<21		25	21	ug/Kg	☼	09/04/20 12:39	09/04/20 22:20	1
Benzene	<0.69		5.0	0.69	ug/Kg	☼	09/04/20 12:39	09/04/20 22:20	1
Dichlorobromomethane	<0.68		5.0	0.68	ug/Kg	☼	09/04/20 12:39	09/04/20 22:20	1
Bromoform	<2.4		5.0	2.4	ug/Kg	☼	09/04/20 12:39	09/04/20 22:20	1
Bromomethane	<0.98		5.0	0.98	ug/Kg	☼	09/04/20 12:39	09/04/20 22:20	1
2-Butanone (MEK)	<3.5		20	3.5	ug/Kg	☼	09/04/20 12:39	09/04/20 22:20	1
Carbon disulfide	<1.2		5.0	1.2	ug/Kg	☼	09/04/20 12:39	09/04/20 22:20	1
Carbon tetrachloride	<3.2		5.0	3.2	ug/Kg	☼	09/04/20 12:39	09/04/20 22:20	1
Chlorobenzene	<0.91		5.0	0.91	ug/Kg	☼	09/04/20 12:39	09/04/20 22:20	1
Chloroethane	<1.2		5.0	1.2	ug/Kg	☼	09/04/20 12:39	09/04/20 22:20	1
Chloroform	<0.78		5.0	0.78	ug/Kg	☼	09/04/20 12:39	09/04/20 22:20	1
Chloromethane	<1.0		5.0	1.0	ug/Kg	☼	09/04/20 12:39	09/04/20 22:20	1
1,1-Dichloroethane	<0.69		5.0	0.69	ug/Kg	☼	09/04/20 12:39	09/04/20 22:20	1
1,2-Dichloroethane	<0.77		5.0	0.77	ug/Kg	☼	09/04/20 12:39	09/04/20 22:20	1
1,1-Dichloroethene	<0.90		5.0	0.90	ug/Kg	☼	09/04/20 12:39	09/04/20 22:20	1
1,2-Dichloropropane	<0.85		5.0	0.85	ug/Kg	☼	09/04/20 12:39	09/04/20 22:20	1
cis-1,3-Dichloropropene	<1.4		5.0	1.4	ug/Kg	☼	09/04/20 12:39	09/04/20 22:20	1
trans-1,3-Dichloropropene	<1.0		5.0	1.0	ug/Kg	☼	09/04/20 12:39	09/04/20 22:20	1
Ethylbenzene	<1.0		5.0	1.0	ug/Kg	☼	09/04/20 12:39	09/04/20 22:20	1
2-Hexanone	<4.1		20	4.1	ug/Kg	☼	09/04/20 12:39	09/04/20 22:20	1
Methylene Chloride	<12		25	12	ug/Kg	☼	09/04/20 12:39	09/04/20 22:20	1
4-Methyl-2-pentanone (MIBK)	<3.7		20	3.7	ug/Kg	☼	09/04/20 12:39	09/04/20 22:20	1
Styrene	<1.2		5.0	1.2	ug/Kg	☼	09/04/20 12:39	09/04/20 22:20	1
1,1,2,2-Tetrachloroethane	<1.4	*3	5.0	1.4	ug/Kg	☼	09/04/20 12:39	09/04/20 22:20	1
Tetrachloroethene	<0.73		5.0	0.73	ug/Kg	☼	09/04/20 12:39	09/04/20 22:20	1
Toluene	<0.77		5.0	0.77	ug/Kg	☼	09/04/20 12:39	09/04/20 22:20	1
Trichloroethene	<0.63		5.0	0.63	ug/Kg	☼	09/04/20 12:39	09/04/20 22:20	1
Vinyl chloride	<0.83		5.0	0.83	ug/Kg	☼	09/04/20 12:39	09/04/20 22:20	1
Xylenes, Total	<1.6		9.9	1.6	ug/Kg	☼	09/04/20 12:39	09/04/20 22:20	1
1,1,1-Trichloroethane	<0.82		5.0	0.82	ug/Kg	☼	09/04/20 12:39	09/04/20 22:20	1
1,1,2-Trichloroethane	<1.1		5.0	1.1	ug/Kg	☼	09/04/20 12:39	09/04/20 22:20	1
1,2-Dibromo-3-Chloropropane	<3.6	*3	9.9	3.6	ug/Kg	☼	09/04/20 12:39	09/04/20 22:20	1
Ethylene Dibromide	<0.77		5.0	0.77	ug/Kg	☼	09/04/20 12:39	09/04/20 22:20	1
Dichlorodifluoromethane	<0.94		5.0	0.94	ug/Kg	☼	09/04/20 12:39	09/04/20 22:20	1
cis-1,2-Dichloroethene	<0.65		5.0	0.65	ug/Kg	☼	09/04/20 12:39	09/04/20 22:20	1
trans-1,2-Dichloroethene	<0.46		5.0	0.46	ug/Kg	☼	09/04/20 12:39	09/04/20 22:20	1
Isopropylbenzene	<0.83		5.0	0.83	ug/Kg	☼	09/04/20 12:39	09/04/20 22:20	1
Methyl tert-butyl ether	<0.82		5.0	0.82	ug/Kg	☼	09/04/20 12:39	09/04/20 22:20	1
1,2,4-Trichlorobenzene	<0.57	*3	5.0	0.57	ug/Kg	☼	09/04/20 12:39	09/04/20 22:20	1
1,2-Dichlorobenzene	<1.1	*3	5.0	1.1	ug/Kg	☼	09/04/20 12:39	09/04/20 22:20	1
1,3-Dichlorobenzene	<0.81	*3	5.0	0.81	ug/Kg	☼	09/04/20 12:39	09/04/20 22:20	1
1,4-Dichlorobenzene	<0.88	*3	5.0	0.88	ug/Kg	☼	09/04/20 12:39	09/04/20 22:20	1
Trichlorofluoromethane	<1.1		5.0	1.1	ug/Kg	☼	09/04/20 12:39	09/04/20 22:20	1
Chlorodibromomethane	<2.8		5.0	2.8	ug/Kg	☼	09/04/20 12:39	09/04/20 22:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*59 - 120*	*09/04/20 12:39*	*09/04/20 22:20*	*1*
4-Bromofluorobenzene (Surr)	*126*	**3*	*51 - 127*	*09/04/20 12:39*	*09/04/20 22:20*	*1*
Toluene-d8 (Surr)	*116*		*64 - 124*	*09/04/20 12:39*	*09/04/20 22:20*	*1*
Dibromofluoromethane (Surr)	*96*		*56 - 122*	*09/04/20 12:39*	*09/04/20 22:20*	*1*

Client Sample Results

Client: EnviroScience Inc
Project/Site: Clark Ave Extension

Job ID: 240-135906-1

Client Sample ID: TP4_090120_S5

Date Collected: 09/01/20 12:15
Date Received: 09/01/20 14:00

Lab Sample ID: 240-135906-8

Matrix: Solid
Percent Solids: 85.5

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	1700		44	10	ug/Kg	☼	09/09/20 09:23	09/15/20 13:34	2.5
Benzo[a]pyrene	1800		44	28	ug/Kg	☼	09/09/20 09:23	09/15/20 13:34	2.5
Benzo[b]fluoranthene	3100		44	19	ug/Kg	☼	09/09/20 09:23	09/15/20 13:34	2.5
Benzo[g,h,i]perylene	790		44	21	ug/Kg	☼	09/09/20 09:23	09/15/20 13:34	2.5
Benzo[k]fluoranthene	740		44	21	ug/Kg	☼	09/09/20 09:23	09/15/20 13:34	2.5
Anthracene	180		44	7.1	ug/Kg	☼	09/09/20 09:23	09/15/20 13:34	2.5
Chrysene	1700		44	4.4	ug/Kg	☼	09/09/20 09:23	09/15/20 13:34	2.5
Dibenz(a,h)anthracene	290		44	20	ug/Kg	☼	09/09/20 09:23	09/15/20 13:34	2.5
Fluoranthene	1400		44	13	ug/Kg	☼	09/09/20 09:23	09/15/20 13:34	2.5
Fluorene	130		44	8.1	ug/Kg	☼	09/09/20 09:23	09/15/20 13:34	2.5
Indeno[1,2,3-cd]pyrene	710		44	22	ug/Kg	☼	09/09/20 09:23	09/15/20 13:34	2.5
Phenanthrene	2200		44	6.6	ug/Kg	☼	09/09/20 09:23	09/15/20 13:34	2.5
Pyrene	1200		44	6.3	ug/Kg	☼	09/09/20 09:23	09/15/20 13:34	2.5
Acenaphthene	97		44	8.5	ug/Kg	☼	09/09/20 09:23	09/15/20 13:34	2.5
Acenaphthylene	130		44	12	ug/Kg	☼	09/09/20 09:23	09/15/20 13:34	2.5
Naphthalene	2700		44	7.1	ug/Kg	☼	09/09/20 09:23	09/15/20 13:34	2.5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*66*		*35 - 120*	*09/09/20 09:23*	*09/15/20 13:34*	*2.5*
2-Fluorophenol (Surr)	*70*		*26 - 120*	*09/09/20 09:23*	*09/15/20 13:34*	*2.5*
2,4,6-Tribromophenol (Surr)	*73*		*10 - 120*	*09/09/20 09:23*	*09/15/20 13:34*	*2.5*
Nitrobenzene-d5 (Surr)	*83*		*28 - 120*	*09/09/20 09:23*	*09/15/20 13:34*	*2.5*
Phenol-d5 (Surr)	*76*		*28 - 120*	*09/09/20 09:23*	*09/15/20 13:34*	*2.5*
Terphenyl-d14 (Surr)	*86*		*39 - 120*	*09/09/20 09:23*	*09/15/20 13:34*	*2.5*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<25		58	25	ug/Kg	☼	09/03/20 08:01	09/08/20 14:14	1
Aroclor-1221	<28		58	28	ug/Kg	☼	09/03/20 08:01	09/08/20 14:14	1
Aroclor-1232	<26		58	26	ug/Kg	☼	09/03/20 08:01	09/08/20 14:14	1
Aroclor-1242	<22		58	22	ug/Kg	☼	09/03/20 08:01	09/08/20 14:14	1
Aroclor-1248	<28		58	28	ug/Kg	☼	09/03/20 08:01	09/08/20 14:14	1
Aroclor-1254	<26		58	26	ug/Kg	☼	09/03/20 08:01	09/08/20 14:14	1
Aroclor-1260	<25		58	25	ug/Kg	☼	09/03/20 08:01	09/08/20 14:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*90*		*14 - 128*	*09/03/20 08:01*	*09/08/20 14:14*	*1*
DCB Decachlorobiphenyl	*113*		*10 - 132*	*09/03/20 08:01*	*09/08/20 14:14*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	130		18	0.33	mg/Kg	☼	09/02/20 14:00	09/03/20 23:28	1
Cadmium	0.30		0.18	0.044	mg/Kg	☼	09/02/20 14:00	09/03/20 23:28	1
Chromium	23		2.3	0.69	mg/Kg	☼	09/02/20 14:00	09/04/20 12:23	5
Silver	<0.074		0.46	0.074	mg/Kg	☼	09/02/20 14:00	09/03/20 23:28	1
Arsenic	20		4.6	1.4	mg/Kg	☼	09/02/20 14:00	09/04/20 12:23	5
Lead	63		0.91	0.26	mg/Kg	☼	09/02/20 14:00	09/03/20 23:28	1
Selenium	4.2	J	6.9	2.1	mg/Kg	☼	09/02/20 14:00	09/04/20 12:23	5
Nickel	20		3.7	0.21	mg/Kg	☼	09/02/20 14:00	09/03/20 23:28	1
Antimony	1.4		0.91	0.33	mg/Kg	☼	09/02/20 14:00	09/03/20 23:28	1

Client Sample Results

Client: EnviroScience Inc
Project/Site: Clark Ave Extension

Job ID: 240-135906-1

Client Sample ID: TP4_090120_S5

Date Collected: 09/01/20 12:15
Date Received: 09/01/20 14:00

Lab Sample ID: 240-135906-8

Matrix: Solid
Percent Solids: 85.5

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	450	J	460	57	mg/Kg	☼	09/02/20 14:00	09/03/20 23:28	1
Potassium	750		460	33	mg/Kg	☼	09/02/20 14:00	09/03/20 23:28	1
Beryllium	1.1		0.46	0.049	mg/Kg	☼	09/02/20 14:00	09/03/20 23:28	1
Thallium	<1.8		4.6	1.8	mg/Kg	☼	09/02/20 14:00	09/04/20 12:23	5
Calcium	21000		460	33	mg/Kg	☼	09/02/20 14:00	09/03/20 23:28	1
Iron	24000	^	9.1	6.3	mg/Kg	☼	09/02/20 14:00	09/03/20 23:28	1
Vanadium	13		4.6	0.75	mg/Kg	☼	09/02/20 14:00	09/03/20 23:28	1
Magnesium	3700		460	42	mg/Kg	☼	09/02/20 14:00	09/03/20 23:28	1
Copper	98		2.3	0.22	mg/Kg	☼	09/02/20 14:00	09/03/20 23:28	1
Aluminum	7100		18	4.9	mg/Kg	☼	09/02/20 14:00	09/03/20 23:28	1
Zinc	84		4.6	1.2	mg/Kg	☼	09/02/20 14:00	09/03/20 23:28	1
Manganese	970		6.9	1.4	mg/Kg	☼	09/02/20 14:00	09/04/20 12:23	5
Cobalt	5.3		0.91	0.18	mg/Kg	☼	09/02/20 14:00	09/03/20 23:28	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.093	J	0.10	0.019	mg/Kg	☼	09/02/20 14:00	09/04/20 10:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	85.5		0.1	0.1	%			09/03/20 16:00	1
Percent Moisture	14.5		0.1	0.1	%			09/03/20 16:00	1

Client Sample Results

Client: EnviroScience Inc
Project/Site: Clark Ave Extension

Job ID: 240-135906-1

Client Sample ID: TP5_090120_S5

Date Collected: 09/01/20 13:05
Date Received: 09/01/20 14:00

Lab Sample ID: 240-135906-9

Matrix: Solid
Percent Solids: 84.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<21		25	21	ug/Kg	☼	09/04/20 12:39	09/04/20 22:42	1
Benzene	<0.69		5.0	0.69	ug/Kg	☼	09/04/20 12:39	09/04/20 22:42	1
Dichlorobromomethane	<0.67		5.0	0.67	ug/Kg	☼	09/04/20 12:39	09/04/20 22:42	1
Bromoform	<2.4		5.0	2.4	ug/Kg	☼	09/04/20 12:39	09/04/20 22:42	1
Bromomethane	<0.98		5.0	0.98	ug/Kg	☼	09/04/20 12:39	09/04/20 22:42	1
2-Butanone (MEK)	<3.5		20	3.5	ug/Kg	☼	09/04/20 12:39	09/04/20 22:42	1
Carbon disulfide	<1.2		5.0	1.2	ug/Kg	☼	09/04/20 12:39	09/04/20 22:42	1
Carbon tetrachloride	<3.2		5.0	3.2	ug/Kg	☼	09/04/20 12:39	09/04/20 22:42	1
Chlorobenzene	<0.91		5.0	0.91	ug/Kg	☼	09/04/20 12:39	09/04/20 22:42	1
Chloroethane	<1.2		5.0	1.2	ug/Kg	☼	09/04/20 12:39	09/04/20 22:42	1
Chloroform	<0.78		5.0	0.78	ug/Kg	☼	09/04/20 12:39	09/04/20 22:42	1
Chloromethane	<1.0		5.0	1.0	ug/Kg	☼	09/04/20 12:39	09/04/20 22:42	1
1,1-Dichloroethane	<0.69		5.0	0.69	ug/Kg	☼	09/04/20 12:39	09/04/20 22:42	1
1,2-Dichloroethane	<0.77		5.0	0.77	ug/Kg	☼	09/04/20 12:39	09/04/20 22:42	1
1,1-Dichloroethene	<0.90		5.0	0.90	ug/Kg	☼	09/04/20 12:39	09/04/20 22:42	1
1,2-Dichloropropane	<0.84		5.0	0.84	ug/Kg	☼	09/04/20 12:39	09/04/20 22:42	1
cis-1,3-Dichloropropene	<1.4		5.0	1.4	ug/Kg	☼	09/04/20 12:39	09/04/20 22:42	1
trans-1,3-Dichloropropene	<1.0		5.0	1.0	ug/Kg	☼	09/04/20 12:39	09/04/20 22:42	1
Ethylbenzene	<1.0		5.0	1.0	ug/Kg	☼	09/04/20 12:39	09/04/20 22:42	1
2-Hexanone	<4.1		20	4.1	ug/Kg	☼	09/04/20 12:39	09/04/20 22:42	1
Methylene Chloride	<12		25	12	ug/Kg	☼	09/04/20 12:39	09/04/20 22:42	1
4-Methyl-2-pentanone (MIBK)	<3.7		20	3.7	ug/Kg	☼	09/04/20 12:39	09/04/20 22:42	1
Styrene	<1.1		5.0	1.1	ug/Kg	☼	09/04/20 12:39	09/04/20 22:42	1
1,1,2,2-Tetrachloroethane	<1.4	*3	5.0	1.4	ug/Kg	☼	09/04/20 12:39	09/04/20 22:42	1
Tetrachloroethene	<0.72		5.0	0.72	ug/Kg	☼	09/04/20 12:39	09/04/20 22:42	1
Toluene	<0.77		5.0	0.77	ug/Kg	☼	09/04/20 12:39	09/04/20 22:42	1
Trichloroethene	<0.63		5.0	0.63	ug/Kg	☼	09/04/20 12:39	09/04/20 22:42	1
Vinyl chloride	<0.83		5.0	0.83	ug/Kg	☼	09/04/20 12:39	09/04/20 22:42	1
Xylenes, Total	<1.6		9.9	1.6	ug/Kg	☼	09/04/20 12:39	09/04/20 22:42	1
1,1,1-Trichloroethane	<0.81		5.0	0.81	ug/Kg	☼	09/04/20 12:39	09/04/20 22:42	1
1,1,2-Trichloroethane	<1.1		5.0	1.1	ug/Kg	☼	09/04/20 12:39	09/04/20 22:42	1
1,2-Dibromo-3-Chloropropane	<3.6	*3	9.9	3.6	ug/Kg	☼	09/04/20 12:39	09/04/20 22:42	1
Ethylene Dibromide	<0.76		5.0	0.76	ug/Kg	☼	09/04/20 12:39	09/04/20 22:42	1
Dichlorodifluoromethane	<0.94		5.0	0.94	ug/Kg	☼	09/04/20 12:39	09/04/20 22:42	1
cis-1,2-Dichloroethene	<0.65		5.0	0.65	ug/Kg	☼	09/04/20 12:39	09/04/20 22:42	1
trans-1,2-Dichloroethene	<0.46		5.0	0.46	ug/Kg	☼	09/04/20 12:39	09/04/20 22:42	1
Isopropylbenzene	<0.83		5.0	0.83	ug/Kg	☼	09/04/20 12:39	09/04/20 22:42	1
Methyl tert-butyl ether	<0.81		5.0	0.81	ug/Kg	☼	09/04/20 12:39	09/04/20 22:42	1
1,2,4-Trichlorobenzene	<0.57	*3	5.0	0.57	ug/Kg	☼	09/04/20 12:39	09/04/20 22:42	1
1,2-Dichlorobenzene	<1.1	*3	5.0	1.1	ug/Kg	☼	09/04/20 12:39	09/04/20 22:42	1
1,3-Dichlorobenzene	<0.81	*3	5.0	0.81	ug/Kg	☼	09/04/20 12:39	09/04/20 22:42	1
1,4-Dichlorobenzene	<0.88	*3	5.0	0.88	ug/Kg	☼	09/04/20 12:39	09/04/20 22:42	1
Trichlorofluoromethane	<1.1		5.0	1.1	ug/Kg	☼	09/04/20 12:39	09/04/20 22:42	1
Chlorodibromomethane	<2.8		5.0	2.8	ug/Kg	☼	09/04/20 12:39	09/04/20 22:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*59 - 120*	*09/04/20 12:39*	*09/04/20 22:42*	*1*
4-Bromofluorobenzene (Surr)	*121*	*3	*51 - 127*	*09/04/20 12:39*	*09/04/20 22:42*	*1*
Toluene-d8 (Surr)	*109*		*64 - 124*	*09/04/20 12:39*	*09/04/20 22:42*	*1*
Dibromofluoromethane (Surr)	*97*		*56 - 122*	*09/04/20 12:39*	*09/04/20 22:42*	*1*

Client Sample Results

Client: EnviroScience Inc
Project/Site: Clark Ave Extension

Job ID: 240-135906-1

Client Sample ID: TP5_090120_S5

Date Collected: 09/01/20 13:05
Date Received: 09/01/20 14:00

Lab Sample ID: 240-135906-9

Matrix: Solid
Percent Solids: 84.2

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	110		18	4.1	ug/Kg	☼	09/09/20 09:23	09/15/20 14:19	1
Benzo[a]pyrene	120		18	11	ug/Kg	☼	09/09/20 09:23	09/15/20 14:19	1
Benzo[b]fluoranthene	160		18	7.8	ug/Kg	☼	09/09/20 09:23	09/15/20 14:19	1
Benzo[g,h,i]perylene	110		18	8.5	ug/Kg	☼	09/09/20 09:23	09/15/20 14:19	1
Benzo[k]fluoranthene	38		18	8.3	ug/Kg	☼	09/09/20 09:23	09/15/20 14:19	1
Anthracene	33		18	2.9	ug/Kg	☼	09/09/20 09:23	09/15/20 14:19	1
Chrysene	100		18	1.8	ug/Kg	☼	09/09/20 09:23	09/15/20 14:19	1
Dibenz(a,h)anthracene	14	J	18	8.3	ug/Kg	☼	09/09/20 09:23	09/15/20 14:19	1
Fluoranthene	240		18	5.3	ug/Kg	☼	09/09/20 09:23	09/15/20 14:19	1
Fluorene	21		18	3.3	ug/Kg	☼	09/09/20 09:23	09/15/20 14:19	1
Indeno[1,2,3-cd]pyrene	48		18	8.8	ug/Kg	☼	09/09/20 09:23	09/15/20 14:19	1
Phenanthrene	350		18	2.7	ug/Kg	☼	09/09/20 09:23	09/15/20 14:19	1
Pyrene	180		18	2.6	ug/Kg	☼	09/09/20 09:23	09/15/20 14:19	1
Acenaphthene	19		18	3.4	ug/Kg	☼	09/09/20 09:23	09/15/20 14:19	1
Acenaphthylene	16	J	18	4.8	ug/Kg	☼	09/09/20 09:23	09/15/20 14:19	1
Naphthalene	440		18	2.9	ug/Kg	☼	09/09/20 09:23	09/15/20 14:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*72*		*35 - 120*	*09/09/20 09:23*	*09/15/20 14:19*	*1*
2-Fluorophenol (Surr)	*71*		*26 - 120*	*09/09/20 09:23*	*09/15/20 14:19*	*1*
2,4,6-Tribromophenol (Surr)	*58*		*10 - 120*	*09/09/20 09:23*	*09/15/20 14:19*	*1*
Nitrobenzene-d5 (Surr)	*74*		*28 - 120*	*09/09/20 09:23*	*09/15/20 14:19*	*1*
Phenol-d5 (Surr)	*77*		*28 - 120*	*09/09/20 09:23*	*09/15/20 14:19*	*1*
Terphenyl-d14 (Surr)	*100*		*39 - 120*	*09/09/20 09:23*	*09/15/20 14:19*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<26		60	26	ug/Kg	☼	09/03/20 08:01	09/08/20 14:30	1
Aroclor-1221	<29		60	29	ug/Kg	☼	09/03/20 08:01	09/08/20 14:30	1
Aroclor-1232	<27		60	27	ug/Kg	☼	09/03/20 08:01	09/08/20 14:30	1
Aroclor-1242	<23		60	23	ug/Kg	☼	09/03/20 08:01	09/08/20 14:30	1
Aroclor-1248	<29		60	29	ug/Kg	☼	09/03/20 08:01	09/08/20 14:30	1
Aroclor-1254	<27		60	27	ug/Kg	☼	09/03/20 08:01	09/08/20 14:30	1
Aroclor-1260	<26		60	26	ug/Kg	☼	09/03/20 08:01	09/08/20 14:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*100*		*14 - 128*	*09/03/20 08:01*	*09/08/20 14:30*	*1*
Tetrachloro-m-xylene	*101*		*14 - 128*	*09/03/20 08:01*	*09/08/20 14:30*	*1*
DCB Decachlorobiphenyl	*139*	*X*	*10 - 132*	*09/03/20 08:01*	*09/08/20 14:30*	*1*
DCB Decachlorobiphenyl	*133*	*X*	*10 - 132*	*09/03/20 08:01*	*09/08/20 14:30*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	76		17	0.31	mg/Kg	☼	09/02/20 14:00	09/03/20 23:32	1
Cadmium	0.33		0.17	0.041	mg/Kg	☼	09/02/20 14:00	09/03/20 23:32	1
Chromium	33		0.43	0.13	mg/Kg	☼	09/02/20 14:00	09/03/20 23:32	1
Silver	<0.070		0.43	0.070	mg/Kg	☼	09/02/20 14:00	09/03/20 23:32	1
Arsenic	11		0.86	0.27	mg/Kg	☼	09/02/20 14:00	09/03/20 23:32	1
Lead	21		0.86	0.24	mg/Kg	☼	09/02/20 14:00	09/03/20 23:32	1
Selenium	<0.40		1.3	0.40	mg/Kg	☼	09/02/20 14:00	09/03/20 23:32	1

Client Sample Results

Client: EnviroScience Inc
Project/Site: Clark Ave Extension

Job ID: 240-135906-1

Client Sample ID: TP5_090120_S5

Date Collected: 09/01/20 13:05
Date Received: 09/01/20 14:00

Lab Sample ID: 240-135906-9

Matrix: Solid
Percent Solids: 84.2

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	27		3.4	0.20	mg/Kg	☼	09/02/20 14:00	09/03/20 23:32	1
Antimony	<0.31		0.86	0.31	mg/Kg	☼	09/02/20 14:00	09/03/20 23:32	1
Sodium	54	J	430	54	mg/Kg	☼	09/02/20 14:00	09/03/20 23:32	1
Potassium	640		430	31	mg/Kg	☼	09/02/20 14:00	09/03/20 23:32	1
Beryllium	0.63		0.43	0.046	mg/Kg	☼	09/02/20 14:00	09/03/20 23:32	1
Thallium	<0.34		0.86	0.34	mg/Kg	☼	09/02/20 14:00	09/03/20 23:32	1
Calcium	18000		430	31	mg/Kg	☼	09/02/20 14:00	09/03/20 23:32	1
Iron	20000	^	8.6	6.0	mg/Kg	☼	09/02/20 14:00	09/03/20 23:32	1
Vanadium	18		4.3	0.71	mg/Kg	☼	09/02/20 14:00	09/03/20 23:32	1
Magnesium	3500		430	40	mg/Kg	☼	09/02/20 14:00	09/03/20 23:32	1
Copper	22		2.2	0.20	mg/Kg	☼	09/02/20 14:00	09/03/20 23:32	1
Aluminum	7400		17	4.6	mg/Kg	☼	09/02/20 14:00	09/03/20 23:32	1
Zinc	78		4.3	1.2	mg/Kg	☼	09/02/20 14:00	09/03/20 23:32	1
Manganese	790		1.3	0.27	mg/Kg	☼	09/02/20 14:00	09/03/20 23:32	1
Cobalt	8.5		0.86	0.17	mg/Kg	☼	09/02/20 14:00	09/03/20 23:32	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.063	J	0.14	0.025	mg/Kg	☼	09/02/20 14:00	09/04/20 10:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	84.2		0.1	0.1	%			09/03/20 16:00	1
Percent Moisture	15.8		0.1	0.1	%			09/03/20 16:00	1

Client Sample Results

Client: EnviroScience Inc
Project/Site: Clark Ave Extension

Job ID: 240-135906-1

Client Sample ID: TP5_090120_S3

Date Collected: 09/01/20 13:10
Date Received: 09/01/20 14:00

Lab Sample ID: 240-135906-10

Matrix: Solid
Percent Solids: 88.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<21		24	21	ug/Kg	☼	09/08/20 11:17	09/08/20 18:18	1
Benzene	<0.68		4.9	0.68	ug/Kg	☼	09/08/20 11:17	09/08/20 18:18	1
Dichlorobromomethane	<0.67		4.9	0.67	ug/Kg	☼	09/08/20 11:17	09/08/20 18:18	1
Bromoform	<2.4		4.9	2.4	ug/Kg	☼	09/08/20 11:17	09/08/20 18:18	1
Bromomethane	<0.97		4.9	0.97	ug/Kg	☼	09/08/20 11:17	09/08/20 18:18	1
2-Butanone (MEK)	<3.5		20	3.5	ug/Kg	☼	09/08/20 11:17	09/08/20 18:18	1
Carbon disulfide	<1.1		4.9	1.1	ug/Kg	☼	09/08/20 11:17	09/08/20 18:18	1
Carbon tetrachloride	<3.2		4.9	3.2	ug/Kg	☼	09/08/20 11:17	09/08/20 18:18	1
Chlorobenzene	<0.90		4.9	0.90	ug/Kg	☼	09/08/20 11:17	09/08/20 18:18	1
Chloroethane	<1.2		4.9	1.2	ug/Kg	☼	09/08/20 11:17	09/08/20 18:18	1
Chloroform	<0.77		4.9	0.77	ug/Kg	☼	09/08/20 11:17	09/08/20 18:18	1
Chloromethane	<1.0		4.9	1.0	ug/Kg	☼	09/08/20 11:17	09/08/20 18:18	1
1,1-Dichloroethane	<0.68		4.9	0.68	ug/Kg	☼	09/08/20 11:17	09/08/20 18:18	1
1,2-Dichloroethane	<0.76		4.9	0.76	ug/Kg	☼	09/08/20 11:17	09/08/20 18:18	1
1,1-Dichloroethene	<0.88		4.9	0.88	ug/Kg	☼	09/08/20 11:17	09/08/20 18:18	1
1,2-Dichloropropane	<0.83		4.9	0.83	ug/Kg	☼	09/08/20 11:17	09/08/20 18:18	1
cis-1,3-Dichloropropene	<1.4		4.9	1.4	ug/Kg	☼	09/08/20 11:17	09/08/20 18:18	1
trans-1,3-Dichloropropene	<1.0		4.9	1.0	ug/Kg	☼	09/08/20 11:17	09/08/20 18:18	1
Ethylbenzene	<1.0		4.9	1.0	ug/Kg	☼	09/08/20 11:17	09/08/20 18:18	1
2-Hexanone	<4.0		20	4.0	ug/Kg	☼	09/08/20 11:17	09/08/20 18:18	1
Methylene Chloride	<12		24	12	ug/Kg	☼	09/08/20 11:17	09/08/20 18:18	1
4-Methyl-2-pentanone (MIBK)	<3.6		20	3.6	ug/Kg	☼	09/08/20 11:17	09/08/20 18:18	1
Styrene	<1.1		4.9	1.1	ug/Kg	☼	09/08/20 11:17	09/08/20 18:18	1
1,1,2,2-Tetrachloroethane	<1.4	*3	4.9	1.4	ug/Kg	☼	09/08/20 11:17	09/08/20 18:18	1
Tetrachloroethene	<0.72		4.9	0.72	ug/Kg	☼	09/08/20 11:17	09/08/20 18:18	1
Toluene	<0.76		4.9	0.76	ug/Kg	☼	09/08/20 11:17	09/08/20 18:18	1
Trichloroethene	<0.62		4.9	0.62	ug/Kg	☼	09/08/20 11:17	09/08/20 18:18	1
Vinyl chloride	<0.82		4.9	0.82	ug/Kg	☼	09/08/20 11:17	09/08/20 18:18	1
Xylenes, Total	<1.6		9.8	1.6	ug/Kg	☼	09/08/20 11:17	09/08/20 18:18	1
1,1,1-Trichloroethane	<0.80		4.9	0.80	ug/Kg	☼	09/08/20 11:17	09/08/20 18:18	1
1,1,2-Trichloroethane	<1.1		4.9	1.1	ug/Kg	☼	09/08/20 11:17	09/08/20 18:18	1
1,2-Dibromo-3-Chloropropane	<3.5	*3	9.8	3.5	ug/Kg	☼	09/08/20 11:17	09/08/20 18:18	1
Ethylene Dibromide	<0.75		4.9	0.75	ug/Kg	☼	09/08/20 11:17	09/08/20 18:18	1
Dichlorodifluoromethane	<0.92		4.9	0.92	ug/Kg	☼	09/08/20 11:17	09/08/20 18:18	1
cis-1,2-Dichloroethene	<0.64		4.9	0.64	ug/Kg	☼	09/08/20 11:17	09/08/20 18:18	1
trans-1,2-Dichloroethene	<0.46		4.9	0.46	ug/Kg	☼	09/08/20 11:17	09/08/20 18:18	1
Isopropylbenzene	<0.82		4.9	0.82	ug/Kg	☼	09/08/20 11:17	09/08/20 18:18	1
Methyl tert-butyl ether	<0.80		4.9	0.80	ug/Kg	☼	09/08/20 11:17	09/08/20 18:18	1
1,2,4-Trichlorobenzene	<0.56	*3	4.9	0.56	ug/Kg	☼	09/08/20 11:17	09/08/20 18:18	1
1,2-Dichlorobenzene	<1.1	*3	4.9	1.1	ug/Kg	☼	09/08/20 11:17	09/08/20 18:18	1
1,3-Dichlorobenzene	<0.80	*3	4.9	0.80	ug/Kg	☼	09/08/20 11:17	09/08/20 18:18	1
1,4-Dichlorobenzene	<0.86	*3	4.9	0.86	ug/Kg	☼	09/08/20 11:17	09/08/20 18:18	1
Trichlorofluoromethane	<1.1		4.9	1.1	ug/Kg	☼	09/08/20 11:17	09/08/20 18:18	1
Chlorodibromomethane	<2.7		4.9	2.7	ug/Kg	☼	09/08/20 11:17	09/08/20 18:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*85*		*59 - 120*	*09/08/20 11:17*	*09/08/20 18:18*	*1*
4-Bromofluorobenzene (Surr)	*116*	*3	*51 - 127*	*09/08/20 11:17*	*09/08/20 18:18*	*1*
Toluene-d8 (Surr)	*121*		*64 - 124*	*09/08/20 11:17*	*09/08/20 18:18*	*1*
Dibromofluoromethane (Surr)	*94*		*56 - 122*	*09/08/20 11:17*	*09/08/20 18:18*	*1*

Client Sample Results

Client: EnviroScience Inc
Project/Site: Clark Ave Extension

Job ID: 240-135906-1

Client Sample ID: TP5_090120_S3

Date Collected: 09/01/20 13:10
Date Received: 09/01/20 14:00

Lab Sample ID: 240-135906-10

Matrix: Solid
Percent Solids: 88.5

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	**360**		68	15	ug/Kg	☼	09/09/20 09:23	09/15/20 14:42	4
Benzo[a]pyrene	**320**		68	42	ug/Kg	☼	09/09/20 09:23	09/15/20 14:42	4
Benzo[b]fluoranthene	**430**		68	29	ug/Kg	☼	09/09/20 09:23	09/15/20 14:42	4
Benzo[g,h,i]perylene	**250**		68	32	ug/Kg	☼	09/09/20 09:23	09/15/20 14:42	4
Benzo[k]fluoranthene	**98**		68	31	ug/Kg	☼	09/09/20 09:23	09/15/20 14:42	4
Anthracene	**140**		68	11	ug/Kg	☼	09/09/20 09:23	09/15/20 14:42	4
Chrysene	**360**		68	6.7	ug/Kg	☼	09/09/20 09:23	09/15/20 14:42	4
Dibenz(a,h)anthracene	<31		68	31	ug/Kg	☼	09/09/20 09:23	09/15/20 14:42	4
Fluoranthene	**460**		68	20	ug/Kg	☼	09/09/20 09:23	09/15/20 14:42	4
Fluorene	**130**		68	12	ug/Kg	☼	09/09/20 09:23	09/15/20 14:42	4
Indeno[1,2,3-cd]pyrene	**110**		68	33	ug/Kg	☼	09/09/20 09:23	09/15/20 14:42	4
Phenanthrene	**1800**		68	10	ug/Kg	☼	09/09/20 09:23	09/15/20 14:42	4
Pyrene	**510**		68	9.7	ug/Kg	☼	09/09/20 09:23	09/15/20 14:42	4
Acenaphthene	**150**		68	13	ug/Kg	☼	09/09/20 09:23	09/15/20 14:42	4
Acenaphthylene	**89**		68	18	ug/Kg	☼	09/09/20 09:23	09/15/20 14:42	4
Naphthalene	**4100**		68	11	ug/Kg	☼	09/09/20 09:23	09/15/20 14:42	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*71*		*35 - 120*	*09/09/20 09:23*	*09/15/20 14:42*	*4*
2-Fluorophenol (Surr)	*71*		*26 - 120*	*09/09/20 09:23*	*09/15/20 14:42*	*4*
2,4,6-Tribromophenol (Surr)	*71*		*10 - 120*	*09/09/20 09:23*	*09/15/20 14:42*	*4*
Nitrobenzene-d5 (Surr)	*80*		*28 - 120*	*09/09/20 09:23*	*09/15/20 14:42*	*4*
Phenol-d5 (Surr)	*78*		*28 - 120*	*09/09/20 09:23*	*09/15/20 14:42*	*4*
Terphenyl-d14 (Surr)	*95*		*39 - 120*	*09/09/20 09:23*	*09/15/20 14:42*	*4*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<25		56	25	ug/Kg	☼	09/03/20 08:01	09/09/20 14:48	1
Aroclor-1221	<27		56	27	ug/Kg	☼	09/03/20 08:01	09/09/20 14:48	1
Aroclor-1232	<26		56	26	ug/Kg	☼	09/03/20 08:01	09/09/20 14:48	1
Aroclor-1242	<21		56	21	ug/Kg	☼	09/03/20 08:01	09/09/20 14:48	1
Aroclor-1248	<27		56	27	ug/Kg	☼	09/03/20 08:01	09/09/20 14:48	1
Aroclor-1254	**130**		56	26	ug/Kg	☼	09/03/20 08:01	09/09/20 14:48	1
Aroclor-1260	<25		56	25	ug/Kg	☼	09/03/20 08:01	09/09/20 14:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*93*		*14 - 128*	*09/03/20 08:01*	*09/09/20 14:48*	*1*
DCB Decachlorobiphenyl	*116*		*10 - 132*	*09/03/20 08:01*	*09/09/20 14:48*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**110**		20	0.37	mg/Kg	☼	09/02/20 14:00	09/03/20 23:36	1
Cadmium	**0.31**		0.20	0.048	mg/Kg	☼	09/02/20 14:00	09/03/20 23:36	1
Chromium	**22**		0.50	0.15	mg/Kg	☼	09/02/20 14:00	09/03/20 23:36	1
Silver	<0.082		0.50	0.082	mg/Kg	☼	09/02/20 14:00	09/03/20 23:36	1
Arsenic	**15**		1.0	0.32	mg/Kg	☼	09/02/20 14:00	09/03/20 23:36	1
Lead	**58**		1.0	0.28	mg/Kg	☼	09/02/20 14:00	09/03/20 23:36	1
Selenium	**1.0**	**J**	1.5	0.47	mg/Kg	☼	09/02/20 14:00	09/03/20 23:36	1
Nickel	**24**		4.0	0.24	mg/Kg	☼	09/02/20 14:00	09/03/20 23:36	1
Antimony	<0.36		1.0	0.36	mg/Kg	☼	09/02/20 14:00	09/03/20 23:36	1

Client Sample Results

Client: EnviroScience Inc
Project/Site: Clark Ave Extension

Job ID: 240-135906-1

Client Sample ID: TP5_090120_S3

Date Collected: 09/01/20 13:10
Date Received: 09/01/20 14:00

Lab Sample ID: 240-135906-10

Matrix: Solid
Percent Solids: 88.5

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	150	J	500	63	mg/Kg	☼	09/02/20 14:00	09/03/20 23:36	1
Potassium	630		500	36	mg/Kg	☼	09/02/20 14:00	09/03/20 23:36	1
Beryllium	1.0		0.50	0.055	mg/Kg	☼	09/02/20 14:00	09/03/20 23:36	1
Thallium	<0.40		1.0	0.40	mg/Kg	☼	09/02/20 14:00	09/03/20 23:36	1
Calcium	43000		500	37	mg/Kg	☼	09/02/20 14:00	09/03/20 23:36	1
Iron	17000	^	10	7.0	mg/Kg	☼	09/02/20 14:00	09/03/20 23:36	1
Vanadium	15		5.0	0.83	mg/Kg	☼	09/02/20 14:00	09/03/20 23:36	1
Magnesium	6300		500	47	mg/Kg	☼	09/02/20 14:00	09/03/20 23:36	1
Copper	15		2.5	0.24	mg/Kg	☼	09/02/20 14:00	09/03/20 23:36	1
Aluminum	6900		20	5.4	mg/Kg	☼	09/02/20 14:00	09/03/20 23:36	1
Zinc	69		5.0	1.4	mg/Kg	☼	09/02/20 14:00	09/03/20 23:36	1
Manganese	890		1.5	0.31	mg/Kg	☼	09/02/20 14:00	09/03/20 23:36	1
Cobalt	6.2		1.0	0.20	mg/Kg	☼	09/02/20 14:00	09/03/20 23:36	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.075	J	0.11	0.021	mg/Kg	☼	09/02/20 14:00	09/04/20 10:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	88.5		0.1	0.1	%			09/03/20 16:00	1
Percent Moisture	11.5		0.1	0.1	%			09/03/20 16:00	1

Client Sample Results

Client: EnviroScience Inc
Project/Site: Clark Ave Extension

Job ID: 240-135906-1

Client Sample ID: TP5_090120_S5_DUP

Date Collected: 09/01/20 13:05
Date Received: 09/01/20 14:00

Lab Sample ID: 240-135906-11

Matrix: Solid
Percent Solids: 76.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<27		32	27	ug/Kg	☼	09/06/20 02:30	09/06/20 07:12	1
Benzene	<0.89		6.3	0.89	ug/Kg	☼	09/06/20 02:30	09/06/20 07:12	1
Dichlorobromomethane	<0.86		6.3	0.86	ug/Kg	☼	09/06/20 02:30	09/06/20 07:12	1
Bromoform	<3.0		6.3	3.0	ug/Kg	☼	09/06/20 02:30	09/06/20 07:12	1
Bromomethane	<1.3		6.3	1.3	ug/Kg	☼	09/06/20 02:30	09/06/20 07:12	1
2-Butanone (MEK)	<4.5		25	4.5	ug/Kg	☼	09/06/20 02:30	09/06/20 07:12	1
Carbon disulfide	<1.5		6.3	1.5	ug/Kg	☼	09/06/20 02:30	09/06/20 07:12	1
Carbon tetrachloride	<4.1		6.3	4.1	ug/Kg	☼	09/06/20 02:30	09/06/20 07:12	1
Chlorobenzene	<1.2		6.3	1.2	ug/Kg	☼	09/06/20 02:30	09/06/20 07:12	1
Chloroethane	<1.5		6.3	1.5	ug/Kg	☼	09/06/20 02:30	09/06/20 07:12	1
Chloroform	<1.0		6.3	1.0	ug/Kg	☼	09/06/20 02:30	09/06/20 07:12	1
Chloromethane	<1.3		6.3	1.3	ug/Kg	☼	09/06/20 02:30	09/06/20 07:12	1
1,1-Dichloroethane	<0.88		6.3	0.88	ug/Kg	☼	09/06/20 02:30	09/06/20 07:12	1
1,2-Dichloroethane	<0.98		6.3	0.98	ug/Kg	☼	09/06/20 02:30	09/06/20 07:12	1
1,1-Dichloroethene	<1.1		6.3	1.1	ug/Kg	☼	09/06/20 02:30	09/06/20 07:12	1
1,2-Dichloropropane	<1.1		6.3	1.1	ug/Kg	☼	09/06/20 02:30	09/06/20 07:12	1
cis-1,3-Dichloropropene	<1.8		6.3	1.8	ug/Kg	☼	09/06/20 02:30	09/06/20 07:12	1
trans-1,3-Dichloropropene	<1.3		6.3	1.3	ug/Kg	☼	09/06/20 02:30	09/06/20 07:12	1
Ethylbenzene	<1.3		6.3	1.3	ug/Kg	☼	09/06/20 02:30	09/06/20 07:12	1
2-Hexanone	<5.2		25	5.2	ug/Kg	☼	09/06/20 02:30	09/06/20 07:12	1
Methylene Chloride	<15		32	15	ug/Kg	☼	09/06/20 02:30	09/06/20 07:12	1
4-Methyl-2-pentanone (MIBK)	<4.7		25	4.7	ug/Kg	☼	09/06/20 02:30	09/06/20 07:12	1
Styrene	<1.5		6.3	1.5	ug/Kg	☼	09/06/20 02:30	09/06/20 07:12	1
1,1,2,2-Tetrachloroethane	<1.8		6.3	1.8	ug/Kg	☼	09/06/20 02:30	09/06/20 07:12	1
Tetrachloroethene	<0.93		6.3	0.93	ug/Kg	☼	09/06/20 02:30	09/06/20 07:12	1
Toluene	<0.98		6.3	0.98	ug/Kg	☼	09/06/20 02:30	09/06/20 07:12	1
Trichloroethene	<0.80		6.3	0.80	ug/Kg	☼	09/06/20 02:30	09/06/20 07:12	1
Vinyl chloride	<1.1		6.3	1.1	ug/Kg	☼	09/06/20 02:30	09/06/20 07:12	1
Xylenes, Total	<2.0		13	2.0	ug/Kg	☼	09/06/20 02:30	09/06/20 07:12	1
1,1,1-Trichloroethane	<1.0		6.3	1.0	ug/Kg	☼	09/06/20 02:30	09/06/20 07:12	1
1,1,2-Trichloroethane	<1.4		6.3	1.4	ug/Kg	☼	09/06/20 02:30	09/06/20 07:12	1
1,2-Dibromo-3-Chloropropane	<4.6		13	4.6	ug/Kg	☼	09/06/20 02:30	09/06/20 07:12	1
Ethylene Dibromide	<0.98		6.3	0.98	ug/Kg	☼	09/06/20 02:30	09/06/20 07:12	1
Dichlorodifluoromethane	<1.2		6.3	1.2	ug/Kg	☼	09/06/20 02:30	09/06/20 07:12	1
cis-1,2-Dichloroethene	<0.83		6.3	0.83	ug/Kg	☼	09/06/20 02:30	09/06/20 07:12	1
trans-1,2-Dichloroethene	<0.59		6.3	0.59	ug/Kg	☼	09/06/20 02:30	09/06/20 07:12	1
Isopropylbenzene	<1.1		6.3	1.1	ug/Kg	☼	09/06/20 02:30	09/06/20 07:12	1
Methyl tert-butyl ether	<1.0		6.3	1.0	ug/Kg	☼	09/06/20 02:30	09/06/20 07:12	1
1,2,4-Trichlorobenzene	<0.73		6.3	0.73	ug/Kg	☼	09/06/20 02:30	09/06/20 07:12	1
1,2-Dichlorobenzene	<1.4		6.3	1.4	ug/Kg	☼	09/06/20 02:30	09/06/20 07:12	1
1,3-Dichlorobenzene	<1.0		6.3	1.0	ug/Kg	☼	09/06/20 02:30	09/06/20 07:12	1
1,4-Dichlorobenzene	<1.1		6.3	1.1	ug/Kg	☼	09/06/20 02:30	09/06/20 07:12	1
Trichlorofluoromethane	<1.4		6.3	1.4	ug/Kg	☼	09/06/20 02:30	09/06/20 07:12	1
Chlorodibromomethane	<3.5		6.3	3.5	ug/Kg	☼	09/06/20 02:30	09/06/20 07:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*59 - 120*	*09/06/20 02:30*	*09/06/20 07:12*	*1*
4-Bromofluorobenzene (Surr)	*86*		*51 - 127*	*09/06/20 02:30*	*09/06/20 07:12*	*1*
Toluene-d8 (Surr)	*96*		*64 - 124*	*09/06/20 02:30*	*09/06/20 07:12*	*1*
Dibromofluoromethane (Surr)	*92*		*56 - 122*	*09/06/20 02:30*	*09/06/20 07:12*	*1*

Client Sample Results

Client: EnviroScience Inc
Project/Site: Clark Ave Extension

Job ID: 240-135906-1

Client Sample ID: TP5_090120_S5_DUP

Date Collected: 09/01/20 13:05
Date Received: 09/01/20 14:00

Lab Sample ID: 240-135906-11

Matrix: Solid
Percent Solids: 76.7

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	45		20	4.5	ug/Kg	☼	09/09/20 09:23	09/14/20 17:43	1
Benzo[a]pyrene	42		20	12	ug/Kg	☼	09/09/20 09:23	09/14/20 17:43	1
Benzo[b]fluoranthene	59		20	8.6	ug/Kg	☼	09/09/20 09:23	09/14/20 17:43	1
Benzo[g,h,i]perylene	34		20	9.4	ug/Kg	☼	09/09/20 09:23	09/14/20 17:43	1
Benzo[k]fluoranthene	19	J	20	9.1	ug/Kg	☼	09/09/20 09:23	09/14/20 17:43	1
Anthracene	12	J	20	3.2	ug/Kg	☼	09/09/20 09:23	09/14/20 17:43	1
Chrysene	41		20	2.0	ug/Kg	☼	09/09/20 09:23	09/14/20 17:43	1
Dibenz(a,h)anthracene	<9.1		20	9.1	ug/Kg	☼	09/09/20 09:23	09/14/20 17:43	1
Fluoranthene	73		20	5.9	ug/Kg	☼	09/09/20 09:23	09/14/20 17:43	1
Fluorene	9.7	J	20	3.6	ug/Kg	☼	09/09/20 09:23	09/14/20 17:43	1
Indeno[1,2,3-cd]pyrene	21		20	9.7	ug/Kg	☼	09/09/20 09:23	09/14/20 17:43	1
Phenanthrene	160		20	2.9	ug/Kg	☼	09/09/20 09:23	09/14/20 17:43	1
Pyrene	64		20	2.8	ug/Kg	☼	09/09/20 09:23	09/14/20 17:43	1
Acenaphthene	<3.8		20	3.8	ug/Kg	☼	09/09/20 09:23	09/14/20 17:43	1
Acenaphthylene	<5.3		20	5.3	ug/Kg	☼	09/09/20 09:23	09/14/20 17:43	1
Naphthalene	300		20	3.2	ug/Kg	☼	09/09/20 09:23	09/14/20 17:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*60*		*35 - 120*	*09/09/20 09:23*	*09/14/20 17:43*	*1*
2-Fluorophenol (Surr)	*77*		*26 - 120*	*09/09/20 09:23*	*09/14/20 17:43*	*1*
2,4,6-Tribromophenol (Surr)	*47*		*10 - 120*	*09/09/20 09:23*	*09/14/20 17:43*	*1*
Nitrobenzene-d5 (Surr)	*75*		*28 - 120*	*09/09/20 09:23*	*09/14/20 17:43*	*1*
Phenol-d5 (Surr)	*87*		*28 - 120*	*09/09/20 09:23*	*09/14/20 17:43*	*1*
Terphenyl-d14 (Surr)	*80*		*39 - 120*	*09/09/20 09:23*	*09/14/20 17:43*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<29		66	29	ug/Kg	☼	09/03/20 08:01	09/08/20 15:01	1
Aroclor-1221	<31		66	31	ug/Kg	☼	09/03/20 08:01	09/08/20 15:01	1
Aroclor-1232	<30		66	30	ug/Kg	☼	09/03/20 08:01	09/08/20 15:01	1
Aroclor-1242	<25		66	25	ug/Kg	☼	09/03/20 08:01	09/08/20 15:01	1
Aroclor-1248	<31		66	31	ug/Kg	☼	09/03/20 08:01	09/08/20 15:01	1
Aroclor-1254	<30		66	30	ug/Kg	☼	09/03/20 08:01	09/08/20 15:01	1
Aroclor-1260	<29		66	29	ug/Kg	☼	09/03/20 08:01	09/08/20 15:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*112*		*14 - 128*	*09/03/20 08:01*	*09/08/20 15:01*	*1*
DCB Decachlorobiphenyl	*138*	*X*	*10 - 132*	*09/03/20 08:01*	*09/08/20 15:01*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	89		19	0.34	mg/Kg	☼	09/02/20 14:00	09/03/20 23:49	1
Cadmium	0.37		0.19	0.045	mg/Kg	☼	09/02/20 14:00	09/03/20 23:49	1
Chromium	91		0.47	0.14	mg/Kg	☼	09/02/20 14:00	09/03/20 23:49	1
Silver	<0.077		0.47	0.077	mg/Kg	☼	09/02/20 14:00	09/03/20 23:49	1
Arsenic	12		0.94	0.30	mg/Kg	☼	09/02/20 14:00	09/03/20 23:49	1
Lead	20		0.94	0.27	mg/Kg	☼	09/02/20 14:00	09/03/20 23:49	1
Selenium	0.81	J	1.4	0.44	mg/Kg	☼	09/02/20 14:00	09/03/20 23:49	1
Nickel	27		3.8	0.22	mg/Kg	☼	09/02/20 14:00	09/03/20 23:49	1
Antimony	<0.34		0.94	0.34	mg/Kg	☼	09/02/20 14:00	09/03/20 23:49	1

Client Sample Results

Client: EnviroScience Inc
Project/Site: Clark Ave Extension

Job ID: 240-135906-1

Client Sample ID: TP5_090120_S5_DUP

Lab Sample ID: 240-135906-11

Date Collected: 09/01/20 13:05
Date Received: 09/01/20 14:00

Matrix: Solid
Percent Solids: 76.7

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	<59		470	59	mg/Kg	☼	09/02/20 14:00	09/03/20 23:49	1
Potassium	**640**		470	34	mg/Kg	☼	09/02/20 14:00	09/03/20 23:49	1
Beryllium	**0.57**		0.47	0.051	mg/Kg	☼	09/02/20 14:00	09/03/20 23:49	1
Thallium	<0.38		0.94	0.38	mg/Kg	☼	09/02/20 14:00	09/03/20 23:49	1
Calcium	**26000**		470	34	mg/Kg	☼	09/02/20 14:00	09/03/20 23:49	1
Iron	**19000**		9.4	6.6	mg/Kg	☼	09/02/20 14:00	09/03/20 23:49	1
Vanadium	**24**		4.7	0.78	mg/Kg	☼	09/02/20 14:00	09/03/20 23:49	1
Magnesium	**4000**		470	44	mg/Kg	☼	09/02/20 14:00	09/03/20 23:49	1
Copper	**21**		2.4	0.22	mg/Kg	☼	09/02/20 14:00	09/03/20 23:49	1
Aluminum	**8000**		19	5.0	mg/Kg	☼	09/02/20 14:00	09/03/20 23:49	1
Zinc	**81**		4.7	1.3	mg/Kg	☼	09/02/20 14:00	09/03/20 23:49	1
Manganese	**1100**		1.4	0.29	mg/Kg	☼	09/02/20 14:00	09/03/20 23:49	1
Cobalt	**9.2**		0.94	0.19	mg/Kg	☼	09/02/20 14:00	09/03/20 23:49	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.052**	**J**	0.14	0.025	mg/Kg	☼	09/02/20 14:00	09/04/20 10:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**76.7**		0.1	0.1	%			09/03/20 16:00	1
Percent Moisture	**23.3**		0.1	0.1	%			09/03/20 16:00	1

Client Sample Results

Client: EnviroScience Inc
Project/Site: Clark Ave Extension

Job ID: 240-135906-1

Client Sample ID: TP6_090220_S7

Date Collected: 09/02/20 09:30
Date Received: 09/02/20 11:30

Lab Sample ID: 240-135927-1

Matrix: Solid
Percent Solids: 77.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**80**		32	27	ug/Kg	☼	09/04/20 07:34	09/04/20 14:39	1
Benzene	<0.90		6.5	0.90	ug/Kg	☼	09/04/20 07:34	09/04/20 14:39	1
Dichlorobromomethane	<0.88		6.5	0.88	ug/Kg	☼	09/04/20 07:34	09/04/20 14:39	1
Bromoform	<3.1		6.5	3.1	ug/Kg	☼	09/04/20 07:34	09/04/20 14:39	1
Bromomethane	<1.3		6.5	1.3	ug/Kg	☼	09/04/20 07:34	09/04/20 14:39	1
2-Butanone (MEK)	**16**	**J**	26	4.6	ug/Kg	☼	09/04/20 07:34	09/04/20 14:39	1
Carbon disulfide	<1.5		6.5	1.5	ug/Kg	☼	09/04/20 07:34	09/04/20 14:39	1
Carbon tetrachloride	<4.2		6.5	4.2	ug/Kg	☼	09/04/20 07:34	09/04/20 14:39	1
Chlorobenzene	<1.2		6.5	1.2	ug/Kg	☼	09/04/20 07:34	09/04/20 14:39	1
Chloroethane	<1.6		6.5	1.6	ug/Kg	☼	09/04/20 07:34	09/04/20 14:39	1
Chloroform	<1.0		6.5	1.0	ug/Kg	☼	09/04/20 07:34	09/04/20 14:39	1
Chloromethane	<1.3		6.5	1.3	ug/Kg	☼	09/04/20 07:34	09/04/20 14:39	1
1,1-Dichloroethane	<0.89		6.5	0.89	ug/Kg	☼	09/04/20 07:34	09/04/20 14:39	1
1,2-Dichloroethane	<1.0		6.5	1.0	ug/Kg	☼	09/04/20 07:34	09/04/20 14:39	1
1,1-Dichloroethene	<1.2		6.5	1.2	ug/Kg	☼	09/04/20 07:34	09/04/20 14:39	1
1,2-Dichloropropane	<1.1		6.5	1.1	ug/Kg	☼	09/04/20 07:34	09/04/20 14:39	1
cis-1,3-Dichloropropene	<1.9		6.5	1.9	ug/Kg	☼	09/04/20 07:34	09/04/20 14:39	1
trans-1,3-Dichloropropene	<1.3		6.5	1.3	ug/Kg	☼	09/04/20 07:34	09/04/20 14:39	1
Ethylbenzene	<1.4		6.5	1.4	ug/Kg	☼	09/04/20 07:34	09/04/20 14:39	1
2-Hexanone	<5.3		26	5.3	ug/Kg	☼	09/04/20 07:34	09/04/20 14:39	1
Methylene Chloride	<15		32	15	ug/Kg	☼	09/04/20 07:34	09/04/20 14:39	1
4-Methyl-2-pentanone (MIBK)	<4.8		26	4.8	ug/Kg	☼	09/04/20 07:34	09/04/20 14:39	1
Styrene	<1.5		6.5	1.5	ug/Kg	☼	09/04/20 07:34	09/04/20 14:39	1
1,1,2,2-Tetrachloroethane	<1.8		6.5	1.8	ug/Kg	☼	09/04/20 07:34	09/04/20 14:39	1
Tetrachloroethene	<0.94		6.5	0.94	ug/Kg	☼	09/04/20 07:34	09/04/20 14:39	1
Toluene	**7.7**		6.5	1.0	ug/Kg	☼	09/04/20 07:34	09/04/20 14:39	1
Trichloroethene	<0.82		6.5	0.82	ug/Kg	☼	09/04/20 07:34	09/04/20 14:39	1
Vinyl chloride	<1.1		6.5	1.1	ug/Kg	☼	09/04/20 07:34	09/04/20 14:39	1
Xylenes, Total	<2.0		13	2.0	ug/Kg	☼	09/04/20 07:34	09/04/20 14:39	1
1,1,1-Trichloroethane	<1.1		6.5	1.1	ug/Kg	☼	09/04/20 07:34	09/04/20 14:39	1
1,1,2-Trichloroethane	<1.5		6.5	1.5	ug/Kg	☼	09/04/20 07:34	09/04/20 14:39	1
1,2-Dibromo-3-Chloropropane	<4.7		13	4.7	ug/Kg	☼	09/04/20 07:34	09/04/20 14:39	1
Ethylene Dibromide	<0.99		6.5	0.99	ug/Kg	☼	09/04/20 07:34	09/04/20 14:39	1
Dichlorodifluoromethane	<1.2		6.5	1.2	ug/Kg	☼	09/04/20 07:34	09/04/20 14:39	1
cis-1,2-Dichloroethene	<0.84		6.5	0.84	ug/Kg	☼	09/04/20 07:34	09/04/20 14:39	1
trans-1,2-Dichloroethene	<0.60		6.5	0.60	ug/Kg	☼	09/04/20 07:34	09/04/20 14:39	1
Isopropylbenzene	<1.1		6.5	1.1	ug/Kg	☼	09/04/20 07:34	09/04/20 14:39	1
Methyl tert-butyl ether	<1.1		6.5	1.1	ug/Kg	☼	09/04/20 07:34	09/04/20 14:39	1
1,2,4-Trichlorobenzene	<0.74		6.5	0.74	ug/Kg	☼	09/04/20 07:34	09/04/20 14:39	1
1,2-Dichlorobenzene	<1.4		6.5	1.4	ug/Kg	☼	09/04/20 07:34	09/04/20 14:39	1
1,3-Dichlorobenzene	<1.1		6.5	1.1	ug/Kg	☼	09/04/20 07:34	09/04/20 14:39	1
1,4-Dichlorobenzene	<1.1		6.5	1.1	ug/Kg	☼	09/04/20 07:34	09/04/20 14:39	1
Trichlorofluoromethane	<1.4		6.5	1.4	ug/Kg	☼	09/04/20 07:34	09/04/20 14:39	1
Chlorodibromomethane	<3.6		6.5	3.6	ug/Kg	☼	09/04/20 07:34	09/04/20 14:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*59 - 120*	*09/04/20 07:34*	*09/04/20 14:39*	*1*
4-Bromofluorobenzene (Surr)	*97*		*51 - 127*	*09/04/20 07:34*	*09/04/20 14:39*	*1*
Toluene-d8 (Surr)	*102*		*64 - 124*	*09/04/20 07:34*	*09/04/20 14:39*	*1*
Dibromofluoromethane (Surr)	*84*		*56 - 122*	*09/04/20 07:34*	*09/04/20 14:39*	*1*

Client Sample Results

Client: EnviroScience Inc
Project/Site: Clark Ave Extension

Job ID: 240-135906-1

Client Sample ID: TP6_090220_S7

Date Collected: 09/02/20 09:30
Date Received: 09/02/20 11:30

Lab Sample ID: 240-135927-1

Matrix: Solid
Percent Solids: 77.2

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	**11**	**J**	19	4.4	ug/Kg	☼	09/04/20 08:21	09/10/20 01:48	1
Benzo[a]pyrene	<12		19	12	ug/Kg	☼	09/04/20 08:21	09/10/20 01:48	1
Benzo[b]fluoranthene	**13**	**J**	19	8.3	ug/Kg	☼	09/04/20 08:21	09/10/20 01:48	1
Benzo[g,h,i]perylene	**13**	**J**	19	9.1	ug/Kg	☼	09/04/20 08:21	09/10/20 01:48	1
Benzo[k]fluoranthene	<8.9		19	8.9	ug/Kg	☼	09/04/20 08:21	09/10/20 01:48	1
Anthracene	**6.1**	**J**	19	3.1	ug/Kg	☼	09/04/20 08:21	09/10/20 01:48	1
Chrysene	**11**	**J**	19	1.9	ug/Kg	☼	09/04/20 08:21	09/10/20 01:48	1
Dibenz(a,h)anthracene	<8.9		19	8.9	ug/Kg	☼	09/04/20 08:21	09/10/20 01:48	1
Fluoranthene	**15**	**J**	19	5.7	ug/Kg	☼	09/04/20 08:21	09/10/20 01:48	1
Fluorene	<3.5		19	3.5	ug/Kg	☼	09/04/20 08:21	09/10/20 01:48	1
Indeno[1,2,3-cd]pyrene	<9.4		19	9.4	ug/Kg	☼	09/04/20 08:21	09/10/20 01:48	1
Phenanthrene	**29**		19	2.9	ug/Kg	☼	09/04/20 08:21	09/10/20 01:48	1
Pyrene	**23**		19	2.7	ug/Kg	☼	09/04/20 08:21	09/10/20 01:48	1
Acenaphthene	<3.7		19	3.7	ug/Kg	☼	09/04/20 08:21	09/10/20 01:48	1
Acenaphthylene	<5.1		19	5.1	ug/Kg	☼	09/04/20 08:21	09/10/20 01:48	1
Naphthalene	**25**		19	3.1	ug/Kg	☼	09/04/20 08:21	09/10/20 01:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*70*		*35 - 120*	*09/04/20 08:21*	*09/10/20 01:48*	*1*
2-Fluorophenol (Surr)	*72*		*26 - 120*	*09/04/20 08:21*	*09/10/20 01:48*	*1*
2,4,6-Tribromophenol (Surr)	*70*		*10 - 120*	*09/04/20 08:21*	*09/10/20 01:48*	*1*
Nitrobenzene-d5 (Surr)	*65*		*28 - 120*	*09/04/20 08:21*	*09/10/20 01:48*	*1*
Phenol-d5 (Surr)	*72*		*28 - 120*	*09/04/20 08:21*	*09/10/20 01:48*	*1*
Terphenyl-d14 (Surr)	*86*		*39 - 120*	*09/04/20 08:21*	*09/10/20 01:48*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<28		63	28	ug/Kg	☼	09/04/20 09:09	09/09/20 12:43	1
Aroclor-1221	<30		63	30	ug/Kg	☼	09/04/20 09:09	09/09/20 12:43	1
Aroclor-1232	<29		63	29	ug/Kg	☼	09/04/20 09:09	09/09/20 12:43	1
Aroclor-1242	<24		63	24	ug/Kg	☼	09/04/20 09:09	09/09/20 12:43	1
Aroclor-1248	<30		63	30	ug/Kg	☼	09/04/20 09:09	09/09/20 12:43	1
Aroclor-1254	<29		63	29	ug/Kg	☼	09/04/20 09:09	09/09/20 12:43	1
Aroclor-1260	<28		63	28	ug/Kg	☼	09/04/20 09:09	09/09/20 12:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*94*		*14 - 128*	*09/04/20 09:09*	*09/09/20 12:43*	*1*
DCB Decachlorobiphenyl	*78*		*10 - 132*	*09/04/20 09:09*	*09/09/20 12:43*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**5000**		24	6.4	mg/Kg	☼	09/03/20 14:00	09/04/20 09:38	1
Antimony	<0.43		1.2	0.43	mg/Kg	☼	09/03/20 14:00	09/04/20 09:38	1
Barium	**140**		24	0.43	mg/Kg	☼	09/03/20 14:00	09/04/20 09:38	1
Beryllium	**0.21**	**J**	0.60	0.065	mg/Kg	☼	09/03/20 14:00	09/04/20 09:38	1
Calcium	**990**		600	44	mg/Kg	☼	09/03/20 14:00	09/04/20 09:38	1
Cadmium	**0.12**	**J**	0.24	0.058	mg/Kg	☼	09/03/20 14:00	09/04/20 09:38	1
Cobalt	**9.2**		1.2	0.24	mg/Kg	☼	09/03/20 14:00	09/04/20 09:38	1
Chromium	**7.6**		0.60	0.18	mg/Kg	☼	09/03/20 14:00	09/04/20 09:38	1
Copper	**15**		3.0	0.28	mg/Kg	☼	09/03/20 14:00	09/04/20 09:38	1

Client Sample Results

Client: EnviroScience Inc
Project/Site: Clark Ave Extension

Job ID: 240-135906-1

Client Sample ID: TP6_090220_S7

Date Collected: 09/02/20 09:30
Date Received: 09/02/20 11:30

Lab Sample ID: 240-135927-1

Matrix: Solid
Percent Solids: 77.2

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	21000		12	8.3	mg/Kg	☼	09/03/20 14:00	09/04/20 09:38	1
Potassium	420	J	600	43	mg/Kg	☼	09/03/20 14:00	09/04/20 09:38	1
Magnesium	1200		600	55	mg/Kg	☼	09/03/20 14:00	09/04/20 09:38	1
Manganese	290		1.8	0.37	mg/Kg	☼	09/03/20 14:00	09/04/20 09:38	1
Silver	<0.097		0.60	0.097	mg/Kg	☼	09/03/20 14:00	09/04/20 09:38	1
Sodium	<75		600	75	mg/Kg	☼	09/03/20 14:00	09/04/20 09:38	1
Nickel	10		4.8	0.28	mg/Kg	☼	09/03/20 14:00	09/04/20 09:38	1
Vanadium	12		6.0	0.99	mg/Kg	☼	09/03/20 14:00	09/04/20 09:38	1
Zinc	46		6.0	1.6	mg/Kg	☼	09/03/20 14:00	09/04/20 09:38	1
Arsenic	11		1.2	0.38	mg/Kg	☼	09/03/20 14:00	09/04/20 09:38	1
Lead	11		1.2	0.34	mg/Kg	☼	09/03/20 14:00	09/04/20 09:38	1
Selenium	0.73	J	1.8	0.56	mg/Kg	☼	09/03/20 14:00	09/04/20 09:38	1
Thallium	<0.48		1.2	0.48	mg/Kg	☼	09/03/20 14:00	09/04/20 09:38	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.049	J	0.13	0.023	mg/Kg	☼	09/03/20 14:00	09/04/20 11:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	77.2		0.1	0.1	%			09/03/20 16:00	1
Percent Moisture	22.8		0.1	0.1	%			09/03/20 16:00	1

Client Sample Results

Client: EnviroScience Inc
Project/Site: Clark Ave Extension

Job ID: 240-135906-1

Client Sample ID: TP6_090220_S4

Date Collected: 09/02/20 09:35
Date Received: 09/02/20 11:30

Lab Sample ID: 240-135927-2

Matrix: Solid
Percent Solids: 82.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**34**		29	24	ug/Kg	☼	09/04/20 07:34	09/04/20 15:04	1
Benzene	<0.81		5.8	0.81	ug/Kg	☼	09/04/20 07:34	09/04/20 15:04	1
Dichlorobromomethane	<0.79		5.8	0.79	ug/Kg	☼	09/04/20 07:34	09/04/20 15:04	1
Bromoform	<2.8		5.8	2.8	ug/Kg	☼	09/04/20 07:34	09/04/20 15:04	1
Bromomethane	<1.1		5.8	1.1	ug/Kg	☼	09/04/20 07:34	09/04/20 15:04	1
2-Butanone (MEK)	**5.0**	**J**	23	4.1	ug/Kg	☼	09/04/20 07:34	09/04/20 15:04	1
Carbon disulfide	<1.3		5.8	1.3	ug/Kg	☼	09/04/20 07:34	09/04/20 15:04	1
Carbon tetrachloride	<3.8		5.8	3.8	ug/Kg	☼	09/04/20 07:34	09/04/20 15:04	1
Chlorobenzene	<1.1		5.8	1.1	ug/Kg	☼	09/04/20 07:34	09/04/20 15:04	1
Chloroethane	<1.4		5.8	1.4	ug/Kg	☼	09/04/20 07:34	09/04/20 15:04	1
Chloroform	<0.91		5.8	0.91	ug/Kg	☼	09/04/20 07:34	09/04/20 15:04	1
Chloromethane	<1.2		5.8	1.2	ug/Kg	☼	09/04/20 07:34	09/04/20 15:04	1
1,1-Dichloroethane	<0.80		5.8	0.80	ug/Kg	☼	09/04/20 07:34	09/04/20 15:04	1
1,2-Dichloroethane	<0.89		5.8	0.89	ug/Kg	☼	09/04/20 07:34	09/04/20 15:04	1
1,1-Dichloroethene	<1.0		5.8	1.0	ug/Kg	☼	09/04/20 07:34	09/04/20 15:04	1
1,2-Dichloropropane	<0.98		5.8	0.98	ug/Kg	☼	09/04/20 07:34	09/04/20 15:04	1
cis-1,3-Dichloropropene	<1.7		5.8	1.7	ug/Kg	☼	09/04/20 07:34	09/04/20 15:04	1
trans-1,3-Dichloropropene	<1.2		5.8	1.2	ug/Kg	☼	09/04/20 07:34	09/04/20 15:04	1
Ethylbenzene	<1.2		5.8	1.2	ug/Kg	☼	09/04/20 07:34	09/04/20 15:04	1
2-Hexanone	<4.7		23	4.7	ug/Kg	☼	09/04/20 07:34	09/04/20 15:04	1
Methylene Chloride	<14		29	14	ug/Kg	☼	09/04/20 07:34	09/04/20 15:04	1
4-Methyl-2-pentanone (MIBK)	<4.3		23	4.3	ug/Kg	☼	09/04/20 07:34	09/04/20 15:04	1
Styrene	<1.3		5.8	1.3	ug/Kg	☼	09/04/20 07:34	09/04/20 15:04	1
1,1,2,2-Tetrachloroethane	<1.7		5.8	1.7	ug/Kg	☼	09/04/20 07:34	09/04/20 15:04	1
Tetrachloroethene	<0.84		5.8	0.84	ug/Kg	☼	09/04/20 07:34	09/04/20 15:04	1
Toluene	**1.8**	**J**	5.8	0.89	ug/Kg	☼	09/04/20 07:34	09/04/20 15:04	1
Trichloroethene	<0.73		5.8	0.73	ug/Kg	☼	09/04/20 07:34	09/04/20 15:04	1
Vinyl chloride	<0.97		5.8	0.97	ug/Kg	☼	09/04/20 07:34	09/04/20 15:04	1
Xylenes, Total	<1.8		12	1.8	ug/Kg	☼	09/04/20 07:34	09/04/20 15:04	1
1,1,1-Trichloroethane	<0.95		5.8	0.95	ug/Kg	☼	09/04/20 07:34	09/04/20 15:04	1
1,1,2-Trichloroethane	<1.3		5.8	1.3	ug/Kg	☼	09/04/20 07:34	09/04/20 15:04	1
1,2-Dibromo-3-Chloropropane	<4.2		12	4.2	ug/Kg	☼	09/04/20 07:34	09/04/20 15:04	1
Ethylene Dibromide	<0.89		5.8	0.89	ug/Kg	☼	09/04/20 07:34	09/04/20 15:04	1
Dichlorodifluoromethane	<1.1		5.8	1.1	ug/Kg	☼	09/04/20 07:34	09/04/20 15:04	1
cis-1,2-Dichloroethene	<0.75		5.8	0.75	ug/Kg	☼	09/04/20 07:34	09/04/20 15:04	1
trans-1,2-Dichloroethene	<0.54		5.8	0.54	ug/Kg	☼	09/04/20 07:34	09/04/20 15:04	1
Isopropylbenzene	<0.96		5.8	0.96	ug/Kg	☼	09/04/20 07:34	09/04/20 15:04	1
Methyl tert-butyl ether	<0.95		5.8	0.95	ug/Kg	☼	09/04/20 07:34	09/04/20 15:04	1
1,2,4-Trichlorobenzene	<0.66		5.8	0.66	ug/Kg	☼	09/04/20 07:34	09/04/20 15:04	1
1,2-Dichlorobenzene	<1.3		5.8	1.3	ug/Kg	☼	09/04/20 07:34	09/04/20 15:04	1
1,3-Dichlorobenzene	<0.94		5.8	0.94	ug/Kg	☼	09/04/20 07:34	09/04/20 15:04	1
1,4-Dichlorobenzene	<1.0		5.8	1.0	ug/Kg	☼	09/04/20 07:34	09/04/20 15:04	1
Trichlorofluoromethane	<1.2		5.8	1.2	ug/Kg	☼	09/04/20 07:34	09/04/20 15:04	1
Chlorodibromomethane	<3.2		5.8	3.2	ug/Kg	☼	09/04/20 07:34	09/04/20 15:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*82*		*59 - 120*	*09/04/20 07:34*	*09/04/20 15:04*	*1*
4-Bromofluorobenzene (Surr)	*83*		*51 - 127*	*09/04/20 07:34*	*09/04/20 15:04*	*1*
Toluene-d8 (Surr)	*95*		*64 - 124*	*09/04/20 07:34*	*09/04/20 15:04*	*1*
Dibromofluoromethane (Surr)	*82*		*56 - 122*	*09/04/20 07:34*	*09/04/20 15:04*	*1*

Client Sample Results

Client: EnviroScience Inc
Project/Site: Clark Ave Extension

Job ID: 240-135906-1

Client Sample ID: TP6_090220_S4

Date Collected: 09/02/20 09:35
Date Received: 09/02/20 11:30

Lab Sample ID: 240-135927-2

Matrix: Solid
Percent Solids: 82.0

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	**4.5**	**J**	18	4.1	ug/Kg	☼	09/04/20 08:21	09/10/20 01:26	1
Benzo[a]pyrene	<11		18	11	ug/Kg	☼	09/04/20 08:21	09/10/20 01:26	1
Benzo[b]fluoranthene	<7.8		18	7.8	ug/Kg	☼	09/04/20 08:21	09/10/20 01:26	1
Benzo[g,h,i]perylene	<8.5		18	8.5	ug/Kg	☼	09/04/20 08:21	09/10/20 01:26	1
Benzo[k]fluoranthene	<8.3		18	8.3	ug/Kg	☼	09/04/20 08:21	09/10/20 01:26	1
Anthracene	<2.9		18	2.9	ug/Kg	☼	09/04/20 08:21	09/10/20 01:26	1
Chrysene	**4.1**	**J**	18	1.8	ug/Kg	☼	09/04/20 08:21	09/10/20 01:26	1
Dibenz(a,h)anthracene	<8.3		18	8.3	ug/Kg	☼	09/04/20 08:21	09/10/20 01:26	1
Fluoranthene	**7.5**	**J**	18	5.3	ug/Kg	☼	09/04/20 08:21	09/10/20 01:26	1
Fluorene	<3.3		18	3.3	ug/Kg	☼	09/04/20 08:21	09/10/20 01:26	1
Indeno[1,2,3-cd]pyrene	<8.8		18	8.8	ug/Kg	☼	09/04/20 08:21	09/10/20 01:26	1
Phenanthrene	**7.0**	**J**	18	2.7	ug/Kg	☼	09/04/20 08:21	09/10/20 01:26	1
Pyrene	**6.3**	**J**	18	2.6	ug/Kg	☼	09/04/20 08:21	09/10/20 01:26	1
Acenaphthene	<3.4		18	3.4	ug/Kg	☼	09/04/20 08:21	09/10/20 01:26	1
Acenaphthylene	<4.8		18	4.8	ug/Kg	☼	09/04/20 08:21	09/10/20 01:26	1
Naphthalene	**5.1**	**J**	18	2.9	ug/Kg	☼	09/04/20 08:21	09/10/20 01:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*71*		*35 - 120*	*09/04/20 08:21*	*09/10/20 01:26*	*1*
2-Fluorophenol (Surr)	*73*		*26 - 120*	*09/04/20 08:21*	*09/10/20 01:26*	*1*
2,4,6-Tribromophenol (Surr)	*87*		*10 - 120*	*09/04/20 08:21*	*09/10/20 01:26*	*1*
Nitrobenzene-d5 (Surr)	*67*		*28 - 120*	*09/04/20 08:21*	*09/10/20 01:26*	*1*
Phenol-d5 (Surr)	*72*		*28 - 120*	*09/04/20 08:21*	*09/10/20 01:26*	*1*
Terphenyl-d14 (Surr)	*88*		*39 - 120*	*09/04/20 08:21*	*09/10/20 01:26*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<26		60	26	ug/Kg	☼	09/04/20 09:09	09/09/20 12:57	1
Aroclor-1221	<29		60	29	ug/Kg	☼	09/04/20 09:09	09/09/20 12:57	1
Aroclor-1232	<28		60	28	ug/Kg	☼	09/04/20 09:09	09/09/20 12:57	1
Aroclor-1242	<23		60	23	ug/Kg	☼	09/04/20 09:09	09/09/20 12:57	1
Aroclor-1248	<29		60	29	ug/Kg	☼	09/04/20 09:09	09/09/20 12:57	1
Aroclor-1254	<28		60	28	ug/Kg	☼	09/04/20 09:09	09/09/20 12:57	1
Aroclor-1260	<26		60	26	ug/Kg	☼	09/04/20 09:09	09/09/20 12:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*91*		*14 - 128*	*09/04/20 09:09*	*09/09/20 12:57*	*1*
DCB Decachlorobiphenyl	*87*		*10 - 132*	*09/04/20 09:09*	*09/09/20 12:57*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**10000**		21	5.7	mg/Kg	☼	09/03/20 14:00	09/04/20 09:42	1
Antimony	<0.38		1.1	0.38	mg/Kg	☼	09/03/20 14:00	09/04/20 09:42	1
Barium	**49**		21	0.38	mg/Kg	☼	09/03/20 14:00	09/04/20 09:42	1
Beryllium	**0.40**	**J**	0.53	0.057	mg/Kg	☼	09/03/20 14:00	09/04/20 09:42	1
Calcium	**1200**		530	39	mg/Kg	☼	09/03/20 14:00	09/04/20 09:42	1
Cadmium	**0.16**	**J**	0.21	0.051	mg/Kg	☼	09/03/20 14:00	09/04/20 09:42	1
Cobalt	**5.3**		1.1	0.21	mg/Kg	☼	09/03/20 14:00	09/04/20 09:42	1
Chromium	**12**		0.53	0.16	mg/Kg	☼	09/03/20 14:00	09/04/20 09:42	1
Copper	**20**		2.7	0.25	mg/Kg	☼	09/03/20 14:00	09/04/20 09:42	1

Client Sample Results

Client: EnviroScience Inc
Project/Site: Clark Ave Extension

Job ID: 240-135906-1

Client Sample ID: TP6_090220_S4

Date Collected: 09/02/20 09:35
Date Received: 09/02/20 11:30

Lab Sample ID: 240-135927-2

Matrix: Solid
Percent Solids: 82.0

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	24000		11	7.4	mg/Kg	☼	09/03/20 14:00	09/04/20 09:42	1
Potassium	710		530	38	mg/Kg	☼	09/03/20 14:00	09/04/20 09:42	1
Magnesium	1800		530	49	mg/Kg	☼	09/03/20 14:00	09/04/20 09:42	1
Manganese	210		1.6	0.33	mg/Kg	☼	09/03/20 14:00	09/04/20 09:42	1
Silver	<0.086		0.53	0.086	mg/Kg	☼	09/03/20 14:00	09/04/20 09:42	1
Sodium	<67		530	67	mg/Kg	☼	09/03/20 14:00	09/04/20 09:42	1
Nickel	18		4.2	0.25	mg/Kg	☼	09/03/20 14:00	09/04/20 09:42	1
Vanadium	20		5.3	0.87	mg/Kg	☼	09/03/20 14:00	09/04/20 09:42	1
Zinc	70		5.3	1.4	mg/Kg	☼	09/03/20 14:00	09/04/20 09:42	1
Arsenic	19		1.1	0.34	mg/Kg	☼	09/03/20 14:00	09/04/20 09:42	1
Lead	18		1.1	0.30	mg/Kg	☼	09/03/20 14:00	09/04/20 09:42	1
Selenium	<0.50		1.6	0.50	mg/Kg	☼	09/03/20 14:00	09/04/20 09:42	1
Thallium	<0.42		1.1	0.42	mg/Kg	☼	09/03/20 14:00	09/04/20 09:42	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.047	J	0.13	0.023	mg/Kg	☼	09/03/20 14:00	09/04/20 11:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	82.0		0.1	0.1	%			09/03/20 16:00	1
Percent Moisture	18.0		0.1	0.1	%			09/03/20 16:00	1

Client Sample Results

Client: EnviroScience Inc
Project/Site: Clark Ave Extension

Job ID: 240-135906-1

Client Sample ID: TP7_090220_S1

Date Collected: 09/02/20 10:20
Date Received: 09/02/20 11:30

Lab Sample ID: 240-135927-3

Matrix: Solid
Percent Solids: 88.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<23		27	23	ug/Kg	☼	09/04/20 07:34	09/04/20 15:30	1
Benzene	<0.76		5.4	0.76	ug/Kg	☼	09/04/20 07:34	09/04/20 15:30	1
Dichlorobromomethane	<0.74		5.4	0.74	ug/Kg	☼	09/04/20 07:34	09/04/20 15:30	1
Bromoform	<2.6		5.4	2.6	ug/Kg	☼	09/04/20 07:34	09/04/20 15:30	1
Bromomethane	<1.1		5.4	1.1	ug/Kg	☼	09/04/20 07:34	09/04/20 15:30	1
2-Butanone (MEK)	<3.9		22	3.9	ug/Kg	☼	09/04/20 07:34	09/04/20 15:30	1
Carbon disulfide	<1.3		5.4	1.3	ug/Kg	☼	09/04/20 07:34	09/04/20 15:30	1
Carbon tetrachloride	<3.5		5.4	3.5	ug/Kg	☼	09/04/20 07:34	09/04/20 15:30	1
Chlorobenzene	<1.0		5.4	1.0	ug/Kg	☼	09/04/20 07:34	09/04/20 15:30	1
Chloroethane	<1.3		5.4	1.3	ug/Kg	☼	09/04/20 07:34	09/04/20 15:30	1
Chloroform	<0.86		5.4	0.86	ug/Kg	☼	09/04/20 07:34	09/04/20 15:30	1
Chloromethane	<1.1		5.4	1.1	ug/Kg	☼	09/04/20 07:34	09/04/20 15:30	1
1,1-Dichloroethane	<0.75		5.4	0.75	ug/Kg	☼	09/04/20 07:34	09/04/20 15:30	1
1,2-Dichloroethane	<0.84		5.4	0.84	ug/Kg	☼	09/04/20 07:34	09/04/20 15:30	1
1,1-Dichloroethene	<0.98		5.4	0.98	ug/Kg	☼	09/04/20 07:34	09/04/20 15:30	1
1,2-Dichloropropane	<0.93		5.4	0.93	ug/Kg	☼	09/04/20 07:34	09/04/20 15:30	1
cis-1,3-Dichloropropene	<1.6		5.4	1.6	ug/Kg	☼	09/04/20 07:34	09/04/20 15:30	1
trans-1,3-Dichloropropene	<1.1		5.4	1.1	ug/Kg	☼	09/04/20 07:34	09/04/20 15:30	1
Ethylbenzene	<1.1		5.4	1.1	ug/Kg	☼	09/04/20 07:34	09/04/20 15:30	1
2-Hexanone	<4.4		22	4.4	ug/Kg	☼	09/04/20 07:34	09/04/20 15:30	1
Methylene Chloride	<13		27	13	ug/Kg	☼	09/04/20 07:34	09/04/20 15:30	1
4-Methyl-2-pentanone (MIBK)	<4.0		22	4.0	ug/Kg	☼	09/04/20 07:34	09/04/20 15:30	1
Styrene	<1.3		5.4	1.3	ug/Kg	☼	09/04/20 07:34	09/04/20 15:30	1
1,1,2,2-Tetrachloroethane	<1.6		5.4	1.6	ug/Kg	☼	09/04/20 07:34	09/04/20 15:30	1
Tetrachloroethene	<0.79		5.4	0.79	ug/Kg	☼	09/04/20 07:34	09/04/20 15:30	1
Toluene	**2.8**	**J**	5.4	0.84	ug/Kg	☼	09/04/20 07:34	09/04/20 15:30	1
Trichloroethene	<0.69		5.4	0.69	ug/Kg	☼	09/04/20 07:34	09/04/20 15:30	1
Vinyl chloride	<0.91		5.4	0.91	ug/Kg	☼	09/04/20 07:34	09/04/20 15:30	1
Xylenes, Total	<1.7		11	1.7	ug/Kg	☼	09/04/20 07:34	09/04/20 15:30	1
1,1,1-Trichloroethane	<0.89		5.4	0.89	ug/Kg	☼	09/04/20 07:34	09/04/20 15:30	1
1,1,2-Trichloroethane	<1.2		5.4	1.2	ug/Kg	☼	09/04/20 07:34	09/04/20 15:30	1
1,2-Dibromo-3-Chloropropane	<3.9		11	3.9	ug/Kg	☼	09/04/20 07:34	09/04/20 15:30	1
Ethylene Dibromide	<0.84		5.4	0.84	ug/Kg	☼	09/04/20 07:34	09/04/20 15:30	1
Dichlorodifluoromethane	<1.0		5.4	1.0	ug/Kg	☼	09/04/20 07:34	09/04/20 15:30	1
cis-1,2-Dichloroethene	<0.71		5.4	0.71	ug/Kg	☼	09/04/20 07:34	09/04/20 15:30	1
trans-1,2-Dichloroethene	<0.51		5.4	0.51	ug/Kg	☼	09/04/20 07:34	09/04/20 15:30	1
Isopropylbenzene	<0.91		5.4	0.91	ug/Kg	☼	09/04/20 07:34	09/04/20 15:30	1
Methyl tert-butyl ether	<0.89		5.4	0.89	ug/Kg	☼	09/04/20 07:34	09/04/20 15:30	1
1,2,4-Trichlorobenzene	<0.62		5.4	0.62	ug/Kg	☼	09/04/20 07:34	09/04/20 15:30	1
1,2-Dichlorobenzene	<1.2		5.4	1.2	ug/Kg	☼	09/04/20 07:34	09/04/20 15:30	1
1,3-Dichlorobenzene	<0.89		5.4	0.89	ug/Kg	☼	09/04/20 07:34	09/04/20 15:30	1
1,4-Dichlorobenzene	<0.96		5.4	0.96	ug/Kg	☼	09/04/20 07:34	09/04/20 15:30	1
Trichlorofluoromethane	<1.2		5.4	1.2	ug/Kg	☼	09/04/20 07:34	09/04/20 15:30	1
Chlorodibromomethane	<3.0		5.4	3.0	ug/Kg	☼	09/04/20 07:34	09/04/20 15:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*82*		*59 - 120*	*09/04/20 07:34*	*09/04/20 15:30*	*1*
4-Bromofluorobenzene (Surr)	*93*		*51 - 127*	*09/04/20 07:34*	*09/04/20 15:30*	*1*
Toluene-d8 (Surr)	*100*		*64 - 124*	*09/04/20 07:34*	*09/04/20 15:30*	*1*
Dibromofluoromethane (Surr)	*83*		*56 - 122*	*09/04/20 07:34*	*09/04/20 15:30*	*1*

Client Sample Results

Client: EnviroScience Inc
Project/Site: Clark Ave Extension

Job ID: 240-135906-1

Client Sample ID: TP7_090220_S1

Date Collected: 09/02/20 10:20
Date Received: 09/02/20 11:30

Lab Sample ID: 240-135927-3

Matrix: Solid
Percent Solids: 88.0

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	**29**		17	3.9	ug/Kg	☼	09/04/20 08:21	09/10/20 02:10	1
Benzo[a]pyrene	**31**		17	11	ug/Kg	☼	09/04/20 08:21	09/10/20 02:10	1
Benzo[b]fluoranthene	**48**		17	7.4	ug/Kg	☼	09/04/20 08:21	09/10/20 02:10	1
Benzo[g,h,i]perylene	**21**		17	8.0	ug/Kg	☼	09/04/20 08:21	09/10/20 02:10	1
Benzo[k]fluoranthene	**14**	**J**	17	7.9	ug/Kg	☼	09/04/20 08:21	09/10/20 02:10	1
Anthracene	**6.4**	**J**	17	2.7	ug/Kg	☼	09/04/20 08:21	09/10/20 02:10	1
Chrysene	**35**		17	1.7	ug/Kg	☼	09/04/20 08:21	09/10/20 02:10	1
Dibenz(a,h)anthracene	<7.8		17	7.8	ug/Kg	☼	09/04/20 08:21	09/10/20 02:10	1
Fluoranthene	**43**		17	5.0	ug/Kg	☼	09/04/20 08:21	09/10/20 02:10	1
Fluorene	<3.1		17	3.1	ug/Kg	☼	09/04/20 08:21	09/10/20 02:10	1
Indeno[1,2,3-cd]pyrene	**15**	**J**	17	8.3	ug/Kg	☼	09/04/20 08:21	09/10/20 02:10	1
Phenanthrene	**81**		17	2.5	ug/Kg	☼	09/04/20 08:21	09/10/20 02:10	1
Pyrene	**44**		17	2.4	ug/Kg	☼	09/04/20 08:21	09/10/20 02:10	1
Acenaphthene	<3.2		17	3.2	ug/Kg	☼	09/04/20 08:21	09/10/20 02:10	1
Acenaphthylene	<4.5		17	4.5	ug/Kg	☼	09/04/20 08:21	09/10/20 02:10	1
Naphthalene	**88**		17	2.7	ug/Kg	☼	09/04/20 08:21	09/10/20 02:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*67*		*35 - 120*	*09/04/20 08:21*	*09/10/20 02:10*	*1*
2-Fluorophenol (Surr)	*52*		*26 - 120*	*09/04/20 08:21*	*09/10/20 02:10*	*1*
2,4,6-Tribromophenol (Surr)	*77*		*10 - 120*	*09/04/20 08:21*	*09/10/20 02:10*	*1*
Nitrobenzene-d5 (Surr)	*56*		*28 - 120*	*09/04/20 08:21*	*09/10/20 02:10*	*1*
Phenol-d5 (Surr)	*60*		*28 - 120*	*09/04/20 08:21*	*09/10/20 02:10*	*1*
Terphenyl-d14 (Surr)	*93*		*39 - 120*	*09/04/20 08:21*	*09/10/20 02:10*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<26		58	26	ug/Kg	☼	09/04/20 09:09	09/09/20 13:12	1
Aroclor-1221	<28		58	28	ug/Kg	☼	09/04/20 09:09	09/09/20 13:12	1
Aroclor-1232	<27		58	27	ug/Kg	☼	09/04/20 09:09	09/09/20 13:12	1
Aroclor-1242	**32**	**J**	58	22	ug/Kg	☼	09/04/20 09:09	09/09/20 13:12	1
Aroclor-1248	<28		58	28	ug/Kg	☼	09/04/20 09:09	09/09/20 13:12	1
Aroclor-1254	<27		58	27	ug/Kg	☼	09/04/20 09:09	09/09/20 13:12	1
Aroclor-1260	<26		58	26	ug/Kg	☼	09/04/20 09:09	09/09/20 13:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*90*		*14 - 128*	*09/04/20 09:09*	*09/09/20 13:12*	*1*
DCB Decachlorobiphenyl	*85*		*10 - 132*	*09/04/20 09:09*	*09/09/20 13:12*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**9100**		21	5.5	mg/Kg	☼	09/03/20 14:00	09/04/20 09:46	1
Antimony	<0.37		1.0	0.37	mg/Kg	☼	09/03/20 14:00	09/04/20 09:46	1
Barium	**110**		21	0.37	mg/Kg	☼	09/03/20 14:00	09/04/20 09:46	1
Beryllium	**0.92**		0.52	0.056	mg/Kg	☼	09/03/20 14:00	09/04/20 09:46	1
Calcium	**46000**		520	38	mg/Kg	☼	09/03/20 14:00	09/04/20 09:46	1
Cadmium	**0.26**		0.21	0.050	mg/Kg	☼	09/03/20 14:00	09/04/20 09:46	1
Cobalt	**7.6**		1.0	0.21	mg/Kg	☼	09/03/20 14:00	09/04/20 09:46	1
Chromium	**21**		0.52	0.16	mg/Kg	☼	09/03/20 14:00	09/04/20 09:46	1
Copper	**11**		2.6	0.24	mg/Kg	☼	09/03/20 14:00	09/04/20 09:46	1

Client Sample Results

Client: EnviroScience Inc
Project/Site: Clark Ave Extension

Job ID: 240-135906-1

Client Sample ID: TP7_090220_S1

Date Collected: 09/02/20 10:20
Date Received: 09/02/20 11:30

Lab Sample ID: 240-135927-3

Matrix: Solid
Percent Solids: 88.0

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	16000		10	7.2	mg/Kg	☼	09/03/20 14:00	09/04/20 09:46	1
Potassium	740		520	37	mg/Kg	☼	09/03/20 14:00	09/04/20 09:46	1
Magnesium	7600		520	48	mg/Kg	☼	09/03/20 14:00	09/04/20 09:46	1
Manganese	1100		1.5	0.32	mg/Kg	☼	09/03/20 14:00	09/04/20 09:46	1
Silver	<0.084		0.52	0.084	mg/Kg	☼	09/03/20 14:00	09/04/20 09:46	1
Sodium	110	J	520	65	mg/Kg	☼	09/03/20 14:00	09/04/20 09:46	1
Nickel	17		4.1	0.24	mg/Kg	☼	09/03/20 14:00	09/04/20 09:46	1
Vanadium	19		5.2	0.85	mg/Kg	☼	09/03/20 14:00	09/04/20 09:46	1
Zinc	59		5.2	1.4	mg/Kg	☼	09/03/20 14:00	09/04/20 09:46	1
Arsenic	14		1.0	0.33	mg/Kg	☼	09/03/20 14:00	09/04/20 09:46	1
Lead	21		1.0	0.29	mg/Kg	☼	09/03/20 14:00	09/04/20 09:46	1
Selenium	<0.48		1.5	0.48	mg/Kg	☼	09/03/20 14:00	09/04/20 09:46	1
Thallium	<0.41		1.0	0.41	mg/Kg	☼	09/03/20 14:00	09/04/20 09:46	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.040	J	0.097	0.018	mg/Kg	☼	09/03/20 14:00	09/04/20 11:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	88.0		0.1	0.1	%			09/03/20 16:00	1
Percent Moisture	12.0		0.1	0.1	%			09/03/20 16:00	1

Client Sample Results

Client: EnviroScience Inc
Project/Site: Clark Ave Extension

Job ID: 240-135906-1

Client Sample ID: TP8_090220_S1

Date Collected: 09/02/20 10:30
Date Received: 09/02/20 11:30

Lab Sample ID: 240-135927-4

Matrix: Solid
Percent Solids: 81.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<24		28	24	ug/Kg	☼	09/04/20 07:34	09/04/20 15:56	1
Benzene	<0.79		5.7	0.79	ug/Kg	☼	09/04/20 07:34	09/04/20 15:56	1
Dichlorobromomethane	<0.77		5.7	0.77	ug/Kg	☼	09/04/20 07:34	09/04/20 15:56	1
Bromoform	<2.7		5.7	2.7	ug/Kg	☼	09/04/20 07:34	09/04/20 15:56	1
Bromomethane	<1.1		5.7	1.1	ug/Kg	☼	09/04/20 07:34	09/04/20 15:56	1
2-Butanone (MEK)	<4.0		23	4.0	ug/Kg	☼	09/04/20 07:34	09/04/20 15:56	1
Carbon disulfide	<1.3		5.7	1.3	ug/Kg	☼	09/04/20 07:34	09/04/20 15:56	1
Carbon tetrachloride	<3.7		5.7	3.7	ug/Kg	☼	09/04/20 07:34	09/04/20 15:56	1
Chlorobenzene	<1.0		5.7	1.0	ug/Kg	☼	09/04/20 07:34	09/04/20 15:56	1
Chloroethane	<1.4		5.7	1.4	ug/Kg	☼	09/04/20 07:34	09/04/20 15:56	1
Chloroform	<0.90		5.7	0.90	ug/Kg	☼	09/04/20 07:34	09/04/20 15:56	1
Chloromethane	<1.2		5.7	1.2	ug/Kg	☼	09/04/20 07:34	09/04/20 15:56	1
1,1-Dichloroethane	<0.79		5.7	0.79	ug/Kg	☼	09/04/20 07:34	09/04/20 15:56	1
1,2-Dichloroethane	<0.88		5.7	0.88	ug/Kg	☼	09/04/20 07:34	09/04/20 15:56	1
1,1-Dichloroethene	<1.0		5.7	1.0	ug/Kg	☼	09/04/20 07:34	09/04/20 15:56	1
1,2-Dichloropropane	<0.97		5.7	0.97	ug/Kg	☼	09/04/20 07:34	09/04/20 15:56	1
cis-1,3-Dichloropropene	<1.6		5.7	1.6	ug/Kg	☼	09/04/20 07:34	09/04/20 15:56	1
trans-1,3-Dichloropropene	<1.2		5.7	1.2	ug/Kg	☼	09/04/20 07:34	09/04/20 15:56	1
Ethylbenzene	<1.2		5.7	1.2	ug/Kg	☼	09/04/20 07:34	09/04/20 15:56	1
2-Hexanone	<4.6		23	4.6	ug/Kg	☼	09/04/20 07:34	09/04/20 15:56	1
Methylene Chloride	<14		28	14	ug/Kg	☼	09/04/20 07:34	09/04/20 15:56	1
4-Methyl-2-pentanone (MIBK)	<4.2		23	4.2	ug/Kg	☼	09/04/20 07:34	09/04/20 15:56	1
Styrene	<1.3		5.7	1.3	ug/Kg	☼	09/04/20 07:34	09/04/20 15:56	1
1,1,2,2-Tetrachloroethane	<1.6		5.7	1.6	ug/Kg	☼	09/04/20 07:34	09/04/20 15:56	1
Tetrachloroethene	<0.83		5.7	0.83	ug/Kg	☼	09/04/20 07:34	09/04/20 15:56	1
Toluene	<0.88		5.7	0.88	ug/Kg	☼	09/04/20 07:34	09/04/20 15:56	1
Trichloroethene	<0.72		5.7	0.72	ug/Kg	☼	09/04/20 07:34	09/04/20 15:56	1
Vinyl chloride	<0.95		5.7	0.95	ug/Kg	☼	09/04/20 07:34	09/04/20 15:56	1
Xylenes, Total	<1.8		11	1.8	ug/Kg	☼	09/04/20 07:34	09/04/20 15:56	1
1,1,1-Trichloroethane	<0.93		5.7	0.93	ug/Kg	☼	09/04/20 07:34	09/04/20 15:56	1
1,1,2-Trichloroethane	<1.3		5.7	1.3	ug/Kg	☼	09/04/20 07:34	09/04/20 15:56	1
1,2-Dibromo-3-Chloropropane	<4.1		11	4.1	ug/Kg	☼	09/04/20 07:34	09/04/20 15:56	1
Ethylene Dibromide	<0.87		5.7	0.87	ug/Kg	☼	09/04/20 07:34	09/04/20 15:56	1
Dichlorodifluoromethane	<1.1		5.7	1.1	ug/Kg	☼	09/04/20 07:34	09/04/20 15:56	1
cis-1,2-Dichloroethene	<0.74		5.7	0.74	ug/Kg	☼	09/04/20 07:34	09/04/20 15:56	1
trans-1,2-Dichloroethene	<0.53		5.7	0.53	ug/Kg	☼	09/04/20 07:34	09/04/20 15:56	1
Isopropylbenzene	<0.95		5.7	0.95	ug/Kg	☼	09/04/20 07:34	09/04/20 15:56	1
Methyl tert-butyl ether	<0.93		5.7	0.93	ug/Kg	☼	09/04/20 07:34	09/04/20 15:56	1
1,2,4-Trichlorobenzene	<0.65		5.7	0.65	ug/Kg	☼	09/04/20 07:34	09/04/20 15:56	1
1,2-Dichlorobenzene	<1.3		5.7	1.3	ug/Kg	☼	09/04/20 07:34	09/04/20 15:56	1
1,3-Dichlorobenzene	<0.93		5.7	0.93	ug/Kg	☼	09/04/20 07:34	09/04/20 15:56	1
1,4-Dichlorobenzene	<1.0		5.7	1.0	ug/Kg	☼	09/04/20 07:34	09/04/20 15:56	1
Trichlorofluoromethane	<1.2		5.7	1.2	ug/Kg	☼	09/04/20 07:34	09/04/20 15:56	1
Chlorodibromomethane	<3.2		5.7	3.2	ug/Kg	☼	09/04/20 07:34	09/04/20 15:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*81*		*59 - 120*	*09/04/20 07:34*	*09/04/20 15:56*	*1*
4-Bromofluorobenzene (Surr)	*89*		*51 - 127*	*09/04/20 07:34*	*09/04/20 15:56*	*1*
Toluene-d8 (Surr)	*98*		*64 - 124*	*09/04/20 07:34*	*09/04/20 15:56*	*1*
Dibromofluoromethane (Surr)	*84*		*56 - 122*	*09/04/20 07:34*	*09/04/20 15:56*	*1*

Client Sample Results

Client: EnviroScience Inc
Project/Site: Clark Ave Extension

Job ID: 240-135906-1

Client Sample ID: TP8_090220_S1

Date Collected: 09/02/20 10:30
Date Received: 09/02/20 11:30

Lab Sample ID: 240-135927-4

Matrix: Solid
Percent Solids: 81.8

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	**31**		18	4.1	ug/Kg	☼	09/04/20 08:21	09/10/20 02:31	1
Benzo[a]pyrene	**41**		18	11	ug/Kg	☼	09/04/20 08:21	09/10/20 02:31	1
Benzo[b]fluoranthene	**64**		18	7.8	ug/Kg	☼	09/04/20 08:21	09/10/20 02:31	1
Benzo[g,h,i]perylene	**28**		18	8.6	ug/Kg	☼	09/04/20 08:21	09/10/20 02:31	1
Benzo[k]fluoranthene	**22**		18	8.4	ug/Kg	☼	09/04/20 08:21	09/10/20 02:31	1
Anthracene	**5.2**	**J**	18	2.9	ug/Kg	☼	09/04/20 08:21	09/10/20 02:31	1
Chrysene	**48**		18	1.8	ug/Kg	☼	09/04/20 08:21	09/10/20 02:31	1
Dibenz(a,h)anthracene	<8.3		18	8.3	ug/Kg	☼	09/04/20 08:21	09/10/20 02:31	1
Fluoranthene	**54**		18	5.4	ug/Kg	☼	09/04/20 08:21	09/10/20 02:31	1
Fluorene	<3.3		18	3.3	ug/Kg	☼	09/04/20 08:21	09/10/20 02:31	1
Indeno[1,2,3-cd]pyrene	**23**		18	8.9	ug/Kg	☼	09/04/20 08:21	09/10/20 02:31	1
Phenanthrene	**54**		18	2.7	ug/Kg	☼	09/04/20 08:21	09/10/20 02:31	1
Pyrene	**53**		18	2.6	ug/Kg	☼	09/04/20 08:21	09/10/20 02:31	1
Acenaphthene	<3.5		18	3.5	ug/Kg	☼	09/04/20 08:21	09/10/20 02:31	1
Acenaphthylene	<4.8		18	4.8	ug/Kg	☼	09/04/20 08:21	09/10/20 02:31	1
Naphthalene	**60**		18	2.9	ug/Kg	☼	09/04/20 08:21	09/10/20 02:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*73*		*35 - 120*	*09/04/20 08:21*	*09/10/20 02:31*	*1*
2-Fluorophenol (Surr)	*63*		*26 - 120*	*09/04/20 08:21*	*09/10/20 02:31*	*1*
2,4,6-Tribromophenol (Surr)	*60*		*10 - 120*	*09/04/20 08:21*	*09/10/20 02:31*	*1*
Nitrobenzene-d5 (Surr)	*68*		*28 - 120*	*09/04/20 08:21*	*09/10/20 02:31*	*1*
Phenol-d5 (Surr)	*71*		*28 - 120*	*09/04/20 08:21*	*09/10/20 02:31*	*1*
Terphenyl-d14 (Surr)	*89*		*39 - 120*	*09/04/20 08:21*	*09/10/20 02:31*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<27		62	27	ug/Kg	☼	09/04/20 09:09	09/09/20 11:44	1
Aroclor-1221	<30		62	30	ug/Kg	☼	09/04/20 09:09	09/09/20 11:44	1
Aroclor-1232	<28		62	28	ug/Kg	☼	09/04/20 09:09	09/09/20 11:44	1
Aroclor-1242	**24**	**J**	62	23	ug/Kg	☼	09/04/20 09:09	09/09/20 11:44	1
Aroclor-1248	<30		62	30	ug/Kg	☼	09/04/20 09:09	09/09/20 11:44	1
Aroclor-1254	**290**		62	28	ug/Kg	☼	09/04/20 09:09	09/09/20 11:44	1
Aroclor-1260	<27		62	27	ug/Kg	☼	09/04/20 09:09	09/09/20 11:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*90*		*14 - 128*	*09/04/20 09:09*	*09/09/20 11:44*	*1*
DCB Decachlorobiphenyl	*79*		*10 - 132*	*09/04/20 09:09*	*09/09/20 11:44*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**9100**		19	5.1	mg/Kg	☼	09/03/20 14:00	09/04/20 09:21	1
Antimony	<0.35	F1	0.96	0.35	mg/Kg	☼	09/03/20 14:00	09/04/20 09:21	1
Barium	**140**	**F1**	19	0.35	mg/Kg	☼	09/03/20 14:00	09/04/20 09:21	1
Beryllium	**0.92**		0.48	0.052	mg/Kg	☼	09/03/20 14:00	09/04/20 09:21	1
Calcium	**74000**		480	35	mg/Kg	☼	09/03/20 14:00	09/04/20 09:21	1
Cadmium	**0.32**		0.19	0.046	mg/Kg	☼	09/03/20 14:00	09/04/20 09:21	1
Cobalt	**6.9**		0.96	0.19	mg/Kg	☼	09/03/20 14:00	09/04/20 09:21	1
Chromium	**27**	**F2**	0.48	0.15	mg/Kg	☼	09/03/20 14:00	09/04/20 09:21	1
Copper	**13**		2.4	0.23	mg/Kg	☼	09/03/20 14:00	09/04/20 09:21	1

Client Sample Results

Client: EnviroScience Inc
Project/Site: Clark Ave Extension

Job ID: 240-135906-1

Client Sample ID: TP8_090220_S1

Date Collected: 09/02/20 10:30
Date Received: 09/02/20 11:30

Lab Sample ID: 240-135927-4

Matrix: Solid
Percent Solids: 81.8

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	15000	F2	9.6	6.7	mg/Kg	☼	09/03/20 14:00	09/04/20 09:21	1
Potassium	830		480	35	mg/Kg	☼	09/03/20 14:00	09/04/20 09:21	1
Magnesium	11000	F2 F1	480	44	mg/Kg	☼	09/03/20 14:00	09/04/20 09:21	1
Manganese	1300	F2	1.4	0.30	mg/Kg	☼	09/03/20 14:00	09/04/20 09:21	1
Silver	<0.078		0.48	0.078	mg/Kg	☼	09/03/20 14:00	09/04/20 09:21	1
Sodium	150	J	480	60	mg/Kg	☼	09/03/20 14:00	09/04/20 09:21	1
Nickel	21	F2	3.8	0.22	mg/Kg	☼	09/03/20 14:00	09/04/20 09:21	1
Vanadium	17		4.8	0.79	mg/Kg	☼	09/03/20 14:00	09/04/20 09:21	1
Zinc	77		4.8	1.3	mg/Kg	☼	09/03/20 14:00	09/04/20 09:21	1
Arsenic	12		0.96	0.30	mg/Kg	☼	09/03/20 14:00	09/04/20 09:21	1
Lead	27		0.96	0.27	mg/Kg	☼	09/03/20 14:00	09/04/20 09:21	1
Selenium	<0.45		1.4	0.45	mg/Kg	☼	09/03/20 14:00	09/04/20 09:21	1
Thallium	<0.38		0.96	0.38	mg/Kg	☼	09/03/20 14:00	09/04/20 09:21	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033	J	0.12	0.022	mg/Kg	☼	09/03/20 14:00	09/04/20 10:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	81.8		0.1	0.1	%			09/03/20 16:00	1
Percent Moisture	18.2		0.1	0.1	%			09/03/20 16:00	1

Surrogate Summary

Client: EnviroScience Inc
Project/Site: Clark Ave Extension

Job ID: 240-135906-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(59-120)	(51-127)	(64-124)	(56-122)
240-135906-1	TP1_090120_S5	93	96	96	93
240-135906-2	TP1_090120_S3	83	95	101	87
240-135906-3	TP2_090120_S4	93	110	103	93
240-135906-4	TP2_090120_S2	92	120 *3	111	92
240-135906-5	TP3_090120_S1	91	112	103	90
240-135906-6	TP3_090120_S5	94	126 *3	114	97
240-135906-6 MS	TP3_090120_S5	88	135 X *3	121	97
240-135906-6 MSD	TP3_090120_S5	90	134 X *3	120	98
240-135906-7	TP4_090120_S4	85 *3	130 *3 X	183 *3 X	104 *3
240-135906-7 MS	TP4_090120_S4	76	117 *3	175 X *3	97
240-135906-7 MSD	TP4_090120_S4	79 *3	124 *3	193 X *3	102 *3
240-135906-8	TP4_090120_S5	95	126 *3	116	96
240-135906-9	TP5_090120_S5	95	121 *3	109	97
240-135906-10	TP5_090120_S3	85	116 *3	121	94
240-135906-11	TP5_090120_S5_DUP	88	86	96	92
240-135927-1	TP6_090220_S7	86	97	102	84
240-135927-2	TP6_090220_S4	82	83	95	82
240-135927-3	TP7_090220_S1	82	93	100	83
240-135927-4	TP8_090220_S1	81	89	98	84
240-135927-4 MS	TP8_090220_S1	71	80	91	82
240-135927-4 MSD	TP8_090220_S1	80	86	97	90
LCS 240-450017/5	Lab Control Sample	82	85	97	92
LCS 240-450099/5	Lab Control Sample	88	97	94	92
LCS 240-450228/5	Lab Control Sample	82	83	95	92
LCS 240-450350/5	Lab Control Sample	86	85	98	94
MB 240-450017/6	Method Blank	82	83	95	87
MB 240-450099/8	Method Blank	90	99	93	92
MB 240-450228/6	Method Blank	78	75	87	83
MB 240-450350/6	Method Blank	81	83	95	88

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	TBP	NBZ	PHL	TPHL
Lab Sample ID	Client Sample ID	(35-120)	(26-120)	(10-120)	(28-120)	(28-120)	(39-120)
240-135906-1	TP1_090120_S5	64	52	51	56	60	85
240-135906-2	TP1_090120_S3	80	67	37	73	68	89
240-135906-3	TP2_090120_S4	79	70	48	77	74	97
240-135906-4	TP2_090120_S2	90	68	61	82	77	98
240-135906-4 MS	TP2_090120_S2	87	74	66	85	77	96
240-135906-4 MSD	TP2_090120_S2	84	65	60	74	77	92
240-135906-5	TP3_090120_S1	76	58	45	64	66	89
240-135906-6	TP3_090120_S5	69	77	79	85	78	93

Surrogate Summary

Client: EnviroScience Inc
Project/Site: Clark Ave Extension

Job ID: 240-135906-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	TBP	NBZ	PHL	TPHL
Lab Sample ID	Client Sample ID	(35-120)	(26-120)	(10-120)	(28-120)	(28-120)	(39-120)
240-135906-7	TP4_090120_S4	72	68	115	92	88	96
240-135906-8	TP4_090120_S5	66	70	73	83	76	86
240-135906-9	TP5_090120_S5	72	71	58	74	77	100
240-135906-10	TP5_090120_S3	71	71	71	80	78	95
240-135906-11	TP5_090120_S5_DUP	60	77	47	75	87	80
240-135927-1	TP6_090220_S7	70	72	70	65	72	86
240-135927-2	TP6_090220_S4	71	73	87	67	72	88
240-135927-3	TP7_090220_S1	67	52	77	56	60	93
240-135927-4	TP8_090220_S1	73	63	60	68	71	89
240-135927-4 MS	TP8_090220_S1	73	68	69	70	74	87
240-135927-4 MSD	TP8_090220_S1	67	55	66	58	64	87
LCS 240-449846/20-A	Lab Control Sample	73	70	38	73	73	95
LCS 240-450055/21-A	Lab Control Sample	76	77	49	75	78	95
LCS 240-450562/24-A	Lab Control Sample	76	88	39	83	86	93
LCS 240-450940/24-A	Lab Control Sample	72	70	41	74	70	91
MB 240-449846/19-A	Method Blank	72	65	21	69	68	87
MB 240-450055/20-A	Method Blank	77	76	44	73	78	97
MB 240-450562/23-A	Method Blank	70	88	36	80	78	99
MB 240-450940/23-A	Method Blank	61	59	14	59	59	76

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX2	DCBP1	DCBP2
Lab Sample ID	Client Sample ID	(14-128)	(14-128)	(10-132)	(10-132)
240-135906-1	TP1_090120_S5	105		145 X	
240-135906-2	TP1_090120_S3		79		125
240-135906-3	TP2_090120_S4		87		122
240-135906-4	TP2_090120_S2		98		131
240-135906-5	TP3_090120_S1	101		134 X	
240-135906-6	TP3_090120_S5	95		122	
240-135906-7	TP4_090120_S4	89		114	
240-135906-8	TP4_090120_S5	90		113	
240-135906-9	TP5_090120_S5	101	100	133 X	139 X
240-135906-10	TP5_090120_S3		93		116
240-135906-11	TP5_090120_S5_DUP	112		138 X	
LCS 240-449817/24-A	Lab Control Sample	96		110	
LCS 240-450726/13-A	Lab Control Sample	108		120	
LCS 240-450914/23-A	Lab Control Sample		78		103
MB 240-449817/23-A	Method Blank	87		101	
MB 240-450726/12-A	Method Blank	63		80	
MB 240-450914/22-A	Method Blank		79		105

Surrogate Summary

Client: EnviroScience Inc
Project/Site: Clark Ave Extension

Job ID: 240-135906-1

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCBP = DCB Decachlorobiphenyl

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	**Client Sample ID**	**TCX2 (14-128)**	**DCBP2 (10-132)**
240-135927-1	TP6_090220_S7	94	78
240-135927-2	TP6_090220_S4	91	87
240-135927-3	TP7_090220_S1	90	85
240-135927-4	TP8_090220_S1	90	79
240-135927-4 MS	TP8_090220_S1	95	78
240-135927-4 MSD	TP8_090220_S1	95	81
LCS 240-450065/24-A	Lab Control Sample	82	104
MB 240-450065/23-A	Method Blank	67	100

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCBP = DCB Decachlorobiphenyl

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-450017/6
Matrix: Solid
Analysis Batch: 450017

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<21		25	21	ug/Kg			09/04/20 09:33	1
Benzene	<0.70		5.0	0.70	ug/Kg			09/04/20 09:33	1
Dichlorobromomethane	<0.68		5.0	0.68	ug/Kg			09/04/20 09:33	1
Bromoform	<2.4		5.0	2.4	ug/Kg			09/04/20 09:33	1
Bromomethane	<0.99		5.0	0.99	ug/Kg			09/04/20 09:33	1
2-Butanone (MEK)	<3.6		20	3.6	ug/Kg			09/04/20 09:33	1
Carbon disulfide	<1.2		5.0	1.2	ug/Kg			09/04/20 09:33	1
Carbon tetrachloride	<3.3		5.0	3.3	ug/Kg			09/04/20 09:33	1
Chlorobenzene	<0.92		5.0	0.92	ug/Kg			09/04/20 09:33	1
Chloroethane	<1.2		5.0	1.2	ug/Kg			09/04/20 09:33	1
Chloroform	<0.79		5.0	0.79	ug/Kg			09/04/20 09:33	1
Chloromethane	<1.0		5.0	1.0	ug/Kg			09/04/20 09:33	1
1,1-Dichloroethane	<0.69		5.0	0.69	ug/Kg			09/04/20 09:33	1
1,2-Dichloroethane	<0.77		5.0	0.77	ug/Kg			09/04/20 09:33	1
1,1-Dichloroethene	<0.90		5.0	0.90	ug/Kg			09/04/20 09:33	1
1,2-Dichloropropane	<0.85		5.0	0.85	ug/Kg			09/04/20 09:33	1
cis-1,3-Dichloropropene	<1.4		5.0	1.4	ug/Kg			09/04/20 09:33	1
trans-1,3-Dichloropropene	<1.0		5.0	1.0	ug/Kg			09/04/20 09:33	1
Ethylbenzene	<1.0		5.0	1.0	ug/Kg			09/04/20 09:33	1
2-Hexanone	<4.1		20	4.1	ug/Kg			09/04/20 09:33	1
Methylene Chloride	<12		25	12	ug/Kg			09/04/20 09:33	1
4-Methyl-2-pentanone (MIBK)	<3.7		20	3.7	ug/Kg			09/04/20 09:33	1
Styrene	<1.2		5.0	1.2	ug/Kg			09/04/20 09:33	1
1,1,2,2-Tetrachloroethane	<1.4		5.0	1.4	ug/Kg			09/04/20 09:33	1
Tetrachloroethene	<0.73		5.0	0.73	ug/Kg			09/04/20 09:33	1
Toluene	<0.77		5.0	0.77	ug/Kg			09/04/20 09:33	1
Trichloroethene	<0.63		5.0	0.63	ug/Kg			09/04/20 09:33	1
Vinyl chloride	<0.84		5.0	0.84	ug/Kg			09/04/20 09:33	1
Xylenes, Total	<1.6		10	1.6	ug/Kg			09/04/20 09:33	1
1,1,1-Trichloroethane	<0.82		5.0	0.82	ug/Kg			09/04/20 09:33	1
1,1,2-Trichloroethane	<1.1		5.0	1.1	ug/Kg			09/04/20 09:33	1
1,2-Dibromo-3-Chloropropane	<3.6		10	3.6	ug/Kg			09/04/20 09:33	1
Ethylene Dibromide	<0.77		5.0	0.77	ug/Kg			09/04/20 09:33	1
Dichlorodifluoromethane	<0.94		5.0	0.94	ug/Kg			09/04/20 09:33	1
cis-1,2-Dichloroethene	<0.65		5.0	0.65	ug/Kg			09/04/20 09:33	1
trans-1,2-Dichloroethene	<0.47		5.0	0.47	ug/Kg			09/04/20 09:33	1
Isopropylbenzene	<0.83		5.0	0.83	ug/Kg			09/04/20 09:33	1
Methyl tert-butyl ether	<0.82		5.0	0.82	ug/Kg			09/04/20 09:33	1
1,2,4-Trichlorobenzene	<0.57		5.0	0.57	ug/Kg			09/04/20 09:33	1
1,2-Dichlorobenzene	<1.1		5.0	1.1	ug/Kg			09/04/20 09:33	1
1,3-Dichlorobenzene	<0.82		5.0	0.82	ug/Kg			09/04/20 09:33	1
1,4-Dichlorobenzene	<0.88		5.0	0.88	ug/Kg			09/04/20 09:33	1
Trichlorofluoromethane	<1.1		5.0	1.1	ug/Kg			09/04/20 09:33	1
Chlorodibromomethane	<2.8		5.0	2.8	ug/Kg			09/04/20 09:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*82*		*59 - 120*		*09/04/20 09:33*	*1*
4-Bromofluorobenzene (Surr)	*83*		*51 - 127*		*09/04/20 09:33*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-450017/6
Matrix: Solid
Analysis Batch: 450017

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	95		64 - 124		09/04/20 09:33	1
Dibromofluoromethane (Surr)	87		56 - 122		09/04/20 09:33	1

Lab Sample ID: LCS 240-450017/5
Matrix: Solid
Analysis Batch: 450017

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	100	115		ug/Kg		115	47 - 157
Benzene	50.0	44.6		ug/Kg		89	75 - 120
Dichlorobromomethane	50.0	42.6		ug/Kg		85	63 - 121
Bromoform	50.0	47.2		ug/Kg		94	44 - 131
Bromomethane	20.0	15.2		ug/Kg		76	10 - 158
2-Butanone (MEK)	100	108		ug/Kg		108	61 - 131
Carbon disulfide	50.0	36.8		ug/Kg		74	33 - 144
Carbon tetrachloride	50.0	36.6		ug/Kg		73	54 - 130
Chlorobenzene	50.0	47.2		ug/Kg		94	79 - 120
Chloroethane	20.0	15.9		ug/Kg		79	10 - 159
Chloroform	50.0	43.4		ug/Kg		87	74 - 120
Chloromethane	20.0	17.1		ug/Kg		86	40 - 127
1,1-Dichloroethane	50.0	42.2		ug/Kg		84	69 - 120
1,2-Dichloroethane	50.0	45.7		ug/Kg		91	66 - 120
1,1-Dichloroethene	50.0	42.5		ug/Kg		85	48 - 140
1,2-Dichloropropane	50.0	46.3		ug/Kg		93	77 - 120
cis-1,3-Dichloropropene	50.0	42.0		ug/Kg		84	62 - 124
trans-1,3-Dichloropropene	50.0	37.6		ug/Kg		75	58 - 120
Ethylbenzene	50.0	43.9		ug/Kg		88	75 - 120
2-Hexanone	100	103		ug/Kg		103	54 - 135
Methylene Chloride	50.0	45.3		ug/Kg		91	48 - 142
4-Methyl-2-pentanone (MIBK)	100	102		ug/Kg		102	56 - 124
Styrene	50.0	45.7		ug/Kg		91	70 - 120
1,1,2,2-Tetrachloroethane	50.0	45.7		ug/Kg		91	61 - 134
Tetrachloroethene	50.0	48.1		ug/Kg		96	75 - 124
Toluene	50.0	44.1		ug/Kg		88	76 - 120
Trichloroethene	50.0	47.6		ug/Kg		95	75 - 123
Vinyl chloride	20.0	17.9		ug/Kg		89	39 - 140
Xylenes, Total	100	89.4		ug/Kg		89	77 - 120
1,1,1-Trichloroethane	50.0	35.9		ug/Kg		72	60 - 126
1,1,2-Trichloroethane	50.0	50.2		ug/Kg		100	78 - 120
1,2-Dibromo-3-Chloropropane	50.0	40.6		ug/Kg		81	35 - 137
Ethylene Dibromide	50.0	50.6		ug/Kg		101	73 - 126
Dichlorodifluoromethane	20.0	16.7		ug/Kg		83	18 - 137
cis-1,2-Dichloroethene	50.0	46.3		ug/Kg		93	76 - 120
trans-1,2-Dichloroethene	50.0	45.6		ug/Kg		91	74 - 125
Isopropylbenzene	50.0	44.8		ug/Kg		90	74 - 120
Methyl tert-butyl ether	50.0	41.0		ug/Kg		82	66 - 120
1,2,4-Trichlorobenzene	50.0	45.1		ug/Kg		90	56 - 120
1,2-Dichlorobenzene	50.0	46.5		ug/Kg		93	74 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-450017/5
Matrix: Solid
Analysis Batch: 450017

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3-Dichlorobenzene	50.0	45.4		ug/Kg		91	74 - 120
1,4-Dichlorobenzene	50.0	46.1		ug/Kg		92	74 - 120
Trichlorofluoromethane	20.0	14.0		ug/Kg		70	33 - 152
m-Xylene & p-Xylene	50.0	44.2		ug/Kg		88	76 - 120
o-Xylene	50.0	45.2		ug/Kg		90	76 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*82*		*59 - 120*
4-Bromofluorobenzene (Surr)	*85*		*51 - 127*
Toluene-d8 (Surr)	*97*		*64 - 124*
Dibromofluoromethane (Surr)	*92*		*56 - 122*

Lab Sample ID: 240-135927-4 MS
Matrix: Solid
Analysis Batch: 450017

Client Sample ID: TP8_090220_S1
Prep Type: Total/NA
Prep Batch: 450029

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	<24		116	116		ug/Kg	☼	101	18 - 167
Benzene	<0.79		57.8	48.8		ug/Kg	☼	85	32 - 131
Dichlorobromomethane	<0.77		57.8	44.3		ug/Kg	☼	77	18 - 125
Bromoform	<2.7		57.8	38.2		ug/Kg	☼	66	10 - 122
Bromomethane	<1.1		23.1	9.47		ug/Kg	☼	41	10 - 149
2-Butanone (MEK)	<4.0		116	97.3		ug/Kg	☼	84	31 - 148
Carbon disulfide	<1.3		57.8	34.9		ug/Kg	☼	60	10 - 134
Carbon tetrachloride	<3.7		57.8	38.2		ug/Kg	☼	66	13 - 131
Chlorobenzene	<1.0		57.8	49.2		ug/Kg	☼	85	16 - 129
Chloroethane	<1.4		23.1	16.8		ug/Kg	☼	73	10 - 155
Chloroform	<0.90		57.8	48.7		ug/Kg	☼	84	38 - 129
Chloromethane	<1.2		23.1	15.7		ug/Kg	☼	68	20 - 140
1,1-Dichloroethane	<0.79		57.8	47.7		ug/Kg	☼	83	35 - 129
1,2-Dichloroethane	<0.88		57.8	48.7		ug/Kg	☼	84	33 - 130
1,1-Dichloroethene	<1.0		57.8	47.0		ug/Kg	☼	81	20 - 150
1,2-Dichloropropane	<0.97		57.8	50.8		ug/Kg	☼	88	33 - 134
cis-1,3-Dichloropropene	<1.6		57.8	31.4		ug/Kg	☼	54	12 - 131
trans-1,3-Dichloropropene	<1.2		57.8	30.9		ug/Kg	☼	54	10 - 123
Ethylbenzene	<1.2		57.8	47.2		ug/Kg	☼	82	12 - 133
2-Hexanone	<4.6		116	60.5		ug/Kg	☼	52	23 - 149
Methylene Chloride	<14		57.8	53.0		ug/Kg	☼	92	22 - 153
4-Methyl-2-pentanone (MIBK)	<4.2		116	89.3		ug/Kg	☼	77	29 - 140
Styrene	<1.3		57.8	42.8		ug/Kg	☼	74	10 - 127
1,1,2,2-Tetrachloroethane	<1.6		57.8	49.5		ug/Kg	☼	86	10 - 168
Tetrachloroethene	<0.83		57.8	52.7		ug/Kg	☼	91	13 - 144
Toluene	<0.88		57.8	48.8		ug/Kg	☼	84	20 - 141
Trichloroethene	<0.72		57.8	50.2		ug/Kg	☼	87	10 - 162
Vinyl chloride	<0.95		23.1	18.2		ug/Kg	☼	79	15 - 150
Xylenes, Total	<1.8		116	95.6		ug/Kg	☼	83	10 - 134
1,1,1-Trichloroethane	<0.93		57.8	39.9		ug/Kg	☼	69	27 - 131
1,1,2-Trichloroethane	<1.3		57.8	54.2		ug/Kg	☼	94	17 - 152

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-135927-4 MS — **Client Sample ID: TP8_090220_S1**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 450017 — **Prep Batch: 450029**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	<4.1		57.8	33.4		ug/Kg	☼	58	10 - 135
Ethylene Dibromide	<0.87		57.8	49.9		ug/Kg	☼	86	24 - 138
Dichlorodifluoromethane	<1.1		23.1	16.4		ug/Kg	☼	71	10 - 141
cis-1,2-Dichloroethene	<0.74		57.8	50.6		ug/Kg	☼	88	35 - 130
trans-1,2-Dichloroethene	<0.53		57.8	48.8		ug/Kg	☼	84	31 - 138
Isopropylbenzene	<0.95		57.8	48.3		ug/Kg	☼	84	10 - 135
Methyl tert-butyl ether	<0.93		57.8	45.0		ug/Kg	☼	78	42 - 127
1,2,4-Trichlorobenzene	<0.65		57.8	26.7		ug/Kg	☼	46	10 - 120
1,2-Dichlorobenzene	<1.3		57.8	42.5		ug/Kg	☼	74	10 - 131
1,3-Dichlorobenzene	<0.93		57.8	43.9		ug/Kg	☼	76	10 - 131
1,4-Dichlorobenzene	<1.0		57.8	43.2		ug/Kg	☼	75	10 - 129
Trichlorofluoromethane	<1.2		23.1	13.0		ug/Kg	☼	56	16 - 148
m-Xylene & p-Xylene	<0.89		57.8	46.6		ug/Kg	☼	81	10 - 132
o-Xylene	<0.98		57.8	49.0		ug/Kg	☼	85	11 - 134

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*71*		*59 - 120*
4-Bromofluorobenzene (Surr)	*80*		*51 - 127*
Toluene-d8 (Surr)	*91*		*64 - 124*
Dibromofluoromethane (Surr)	*82*		*56 - 122*

Lab Sample ID: 240-135927-4 MSD — **Client Sample ID: TP8_090220_S1**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 450017 — **Prep Batch: 450029**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	<24		118	110		ug/Kg	☼	94	18 - 167	5	40
Benzene	<0.79		58.8	48.6		ug/Kg	☼	83	32 - 131	0	40
Dichlorobromomethane	<0.77		58.8	44.3		ug/Kg	☼	75	18 - 125	0	40
Bromoform	<2.7		58.8	37.2		ug/Kg	☼	63	10 - 122	3	40
Bromomethane	<1.1		23.5	8.98		ug/Kg	☼	38	10 - 149	5	40
2-Butanone (MEK)	<4.0		118	91.0		ug/Kg	☼	77	31 - 148	7	40
Carbon disulfide	<1.3		58.8	35.2		ug/Kg	☼	60	10 - 134	1	40
Carbon tetrachloride	<3.7		58.8	38.9		ug/Kg	☼	66	13 - 131	2	40
Chlorobenzene	<1.0		58.8	46.1		ug/Kg	☼	78	16 - 129	6	40
Chloroethane	<1.4		23.5	16.9		ug/Kg	☼	72	10 - 155	0	40
Chloroform	<0.90		58.8	47.6		ug/Kg	☼	81	38 - 129	2	40
Chloromethane	<1.2		23.5	16.1		ug/Kg	☼	68	20 - 140	3	40
1,1-Dichloroethane	<0.79		58.8	47.3		ug/Kg	☼	80	35 - 129	1	40
1,2-Dichloroethane	<0.88		58.8	47.8		ug/Kg	☼	81	33 - 130	2	40
1,1-Dichloroethene	<1.0		58.8	47.3		ug/Kg	☼	80	20 - 150	1	40
1,2-Dichloropropane	<0.97		58.8	49.8		ug/Kg	☼	85	33 - 134	2	40
cis-1,3-Dichloropropene	<1.6		58.8	31.8		ug/Kg	☼	54	12 - 131	1	40
trans-1,3-Dichloropropene	<1.2		58.8	30.5		ug/Kg	☼	52	10 - 123	2	40
Ethylbenzene	<1.2		58.8	44.4		ug/Kg	☼	76	12 - 133	6	40
2-Hexanone	<4.6		118	50.8		ug/Kg	☼	43	23 - 149	17	40
Methylene Chloride	<14		58.8	51.9		ug/Kg	☼	88	22 - 153	2	40
4-Methyl-2-pentanone (MIBK)	<4.2		118	83.8		ug/Kg	☼	71	29 - 140	6	40

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-135927-4 MSD — **Client Sample ID: TP8_090220_S1**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 450017 — **Prep Batch: 450029**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Styrene	<1.3		58.8	39.4		ug/Kg	☼	67	10 - 127	8	40
1,1,2,2-Tetrachloroethane	<1.6		58.8	43.1		ug/Kg	☼	73	10 - 168	14	40
Tetrachloroethene	<0.83		58.8	48.9		ug/Kg	☼	83	13 - 144	7	40
Toluene	<0.88		58.8	46.4		ug/Kg	☼	79	20 - 141	5	40
Trichloroethene	<0.72		58.8	50.1		ug/Kg	☼	85	10 - 162	0	40
Vinyl chloride	<0.95		23.5	18.7		ug/Kg	☼	80	15 - 150	3	40
Xylenes, Total	<1.8		118	90.4		ug/Kg	☼	77	10 - 134	6	40
1,1,1-Trichloroethane	<0.93		58.8	40.6		ug/Kg	☼	69	27 - 131	2	40
1,1,2-Trichloroethane	<1.3		58.8	51.3		ug/Kg	☼	87	17 - 152	6	40
1,2-Dibromo-3-Chloropropane	<4.1		58.8	29.9		ug/Kg	☼	51	10 - 135	11	40
Ethylene Dibromide	<0.87		58.8	47.1		ug/Kg	☼	80	24 - 138	6	40
Dichlorodifluoromethane	<1.1		23.5	16.3		ug/Kg	☼	70	10 - 141	0	40
cis-1,2-Dichloroethene	<0.74		58.8	50.0		ug/Kg	☼	85	35 - 130	1	40
trans-1,2-Dichloroethene	<0.53		58.8	48.7		ug/Kg	☼	83	31 - 138	0	40
Isopropylbenzene	<0.95		58.8	45.0		ug/Kg	☼	77	10 - 135	7	40
Methyl tert-butyl ether	<0.93		58.8	44.4		ug/Kg	☼	76	42 - 127	1	40
1,2,4-Trichlorobenzene	<0.65		58.8	22.8		ug/Kg	☼	39	10 - 120	15	40
1,2-Dichlorobenzene	<1.3		58.8	37.1		ug/Kg	☼	63	10 - 131	14	40
1,3-Dichlorobenzene	<0.93		58.8	37.2		ug/Kg	☼	63	10 - 131	16	40
1,4-Dichlorobenzene	<1.0		58.8	36.9		ug/Kg	☼	63	10 - 129	16	40
Trichlorofluoromethane	<1.2		23.5	13.5		ug/Kg	☼	57	16 - 148	3	40
m-Xylene & p-Xylene	<0.89		58.8	44.7		ug/Kg	☼	76	10 - 132	4	40
o-Xylene	<0.98		58.8	45.7		ug/Kg	☼	78	11 - 134	7	40

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*80*		*59 - 120*
4-Bromofluorobenzene (Surr)	*86*		*51 - 127*
Toluene-d8 (Surr)	*97*		*64 - 124*
Dibromofluoromethane (Surr)	*90*		*56 - 122*

Lab Sample ID: MB 240-450099/8 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 450099

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<21		25	21	ug/Kg			09/04/20 13:49	1
Benzene	<0.70		5.0	0.70	ug/Kg			09/04/20 13:49	1
Dichlorobromomethane	<0.68		5.0	0.68	ug/Kg			09/04/20 13:49	1
Bromoform	<2.4		5.0	2.4	ug/Kg			09/04/20 13:49	1
Bromomethane	<0.99		5.0	0.99	ug/Kg			09/04/20 13:49	1
2-Butanone (MEK)	<3.6		20	3.6	ug/Kg			09/04/20 13:49	1
Carbon disulfide	<1.2		5.0	1.2	ug/Kg			09/04/20 13:49	1
Carbon tetrachloride	<3.3		5.0	3.3	ug/Kg			09/04/20 13:49	1
Chlorobenzene	<0.92		5.0	0.92	ug/Kg			09/04/20 13:49	1
Chloroethane	<1.2		5.0	1.2	ug/Kg			09/04/20 13:49	1
Chloroform	<0.79		5.0	0.79	ug/Kg			09/04/20 13:49	1
Chloromethane	<1.0		5.0	1.0	ug/Kg			09/04/20 13:49	1
1,1-Dichloroethane	<0.69		5.0	0.69	ug/Kg			09/04/20 13:49	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-450099/8
Matrix: Solid
Analysis Batch: 450099

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	<0.77		5.0	0.77	ug/Kg			09/04/20 13:49	1
1,1-Dichloroethene	<0.90		5.0	0.90	ug/Kg			09/04/20 13:49	1
1,2-Dichloropropane	<0.85		5.0	0.85	ug/Kg			09/04/20 13:49	1
cis-1,3-Dichloropropene	<1.4		5.0	1.4	ug/Kg			09/04/20 13:49	1
trans-1,3-Dichloropropene	<1.0		5.0	1.0	ug/Kg			09/04/20 13:49	1
Ethylbenzene	<1.0		5.0	1.0	ug/Kg			09/04/20 13:49	1
2-Hexanone	<4.1		20	4.1	ug/Kg			09/04/20 13:49	1
Methylene Chloride	<12		25	12	ug/Kg			09/04/20 13:49	1
4-Methyl-2-pentanone (MIBK)	<3.7		20	3.7	ug/Kg			09/04/20 13:49	1
Styrene	<1.2		5.0	1.2	ug/Kg			09/04/20 13:49	1
1,1,2,2-Tetrachloroethane	<1.4		5.0	1.4	ug/Kg			09/04/20 13:49	1
Tetrachloroethene	<0.73		5.0	0.73	ug/Kg			09/04/20 13:49	1
Toluene	<0.77		5.0	0.77	ug/Kg			09/04/20 13:49	1
Trichloroethene	<0.63		5.0	0.63	ug/Kg			09/04/20 13:49	1
Vinyl chloride	<0.84		5.0	0.84	ug/Kg			09/04/20 13:49	1
Xylenes, Total	<1.6		10	1.6	ug/Kg			09/04/20 13:49	1
1,1,1-Trichloroethane	<0.82		5.0	0.82	ug/Kg			09/04/20 13:49	1
1,1,2-Trichloroethane	<1.1		5.0	1.1	ug/Kg			09/04/20 13:49	1
1,2-Dibromo-3-Chloropropane	<3.6		10	3.6	ug/Kg			09/04/20 13:49	1
Ethylene Dibromide	<0.77		5.0	0.77	ug/Kg			09/04/20 13:49	1
Dichlorodifluoromethane	<0.94		5.0	0.94	ug/Kg			09/04/20 13:49	1
cis-1,2-Dichloroethene	<0.65		5.0	0.65	ug/Kg			09/04/20 13:49	1
trans-1,2-Dichloroethene	<0.47		5.0	0.47	ug/Kg			09/04/20 13:49	1
Isopropylbenzene	<0.83		5.0	0.83	ug/Kg			09/04/20 13:49	1
Methyl tert-butyl ether	<0.82		5.0	0.82	ug/Kg			09/04/20 13:49	1
1,2,4-Trichlorobenzene	<0.57		5.0	0.57	ug/Kg			09/04/20 13:49	1
1,2-Dichlorobenzene	<1.1		5.0	1.1	ug/Kg			09/04/20 13:49	1
1,3-Dichlorobenzene	<0.82		5.0	0.82	ug/Kg			09/04/20 13:49	1
1,4-Dichlorobenzene	<0.88		5.0	0.88	ug/Kg			09/04/20 13:49	1
Trichlorofluoromethane	<1.1		5.0	1.1	ug/Kg			09/04/20 13:49	1
Chlorodibromomethane	<2.8		5.0	2.8	ug/Kg			09/04/20 13:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*59 - 120*		*09/04/20 13:49*	*1*
4-Bromofluorobenzene (Surr)	*99*		*51 - 127*		*09/04/20 13:49*	*1*
Toluene-d8 (Surr)	*93*		*64 - 124*		*09/04/20 13:49*	*1*
Dibromofluoromethane (Surr)	*92*		*56 - 122*		*09/04/20 13:49*	*1*

Lab Sample ID: LCS 240-450099/5
Matrix: Solid
Analysis Batch: 450099

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	100	91.0		ug/Kg		91	47 - 157
Benzene	50.0	55.5		ug/Kg		111	75 - 120
Dichlorobromomethane	50.0	58.3		ug/Kg		117	63 - 121
Bromoform	50.0	51.4		ug/Kg		103	44 - 131
Bromomethane	20.0	22.1		ug/Kg		110	10 - 158

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-450099/5
Matrix: Solid
Analysis Batch: 450099

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Butanone (MEK)	100	76.3		ug/Kg		76	61 - 131
Carbon disulfide	50.0	68.1		ug/Kg		136	33 - 144
Carbon tetrachloride	50.0	60.1		ug/Kg		120	54 - 130
Chlorobenzene	50.0	51.4		ug/Kg		103	79 - 120
Chloroethane	20.0	22.0		ug/Kg		110	10 - 159
Chloroform	50.0	54.7		ug/Kg		109	74 - 120
Chloromethane	20.0	19.2		ug/Kg		96	40 - 127
1,1-Dichloroethane	50.0	54.9		ug/Kg		110	69 - 120
1,2-Dichloroethane	50.0	50.5		ug/Kg		101	66 - 120
1,1-Dichloroethene	50.0	66.0		ug/Kg		132	48 - 140
1,2-Dichloropropane	50.0	54.7		ug/Kg		109	77 - 120
cis-1,3-Dichloropropene	50.0	58.1		ug/Kg		116	62 - 124
trans-1,3-Dichloropropene	50.0	47.6		ug/Kg		95	58 - 120
Ethylbenzene	50.0	54.8		ug/Kg		110	75 - 120
2-Hexanone	100	84.0		ug/Kg		84	54 - 135
Methylene Chloride	50.0	51.5		ug/Kg		103	48 - 142
4-Methyl-2-pentanone (MIBK)	100	83.8		ug/Kg		84	56 - 124
Styrene	50.0	53.8		ug/Kg		108	70 - 120
1,1,2,2-Tetrachloroethane	50.0	49.4		ug/Kg		99	61 - 134
Tetrachloroethene	50.0	55.2		ug/Kg		110	75 - 124
Toluene	50.0	54.1		ug/Kg		108	76 - 120
Trichloroethene	50.0	59.1		ug/Kg		118	75 - 123
Vinyl chloride	20.0	21.5		ug/Kg		108	39 - 140
Xylenes, Total	100	109		ug/Kg		109	77 - 120
1,1,1-Trichloroethane	50.0	61.0		ug/Kg		122	60 - 126
1,1,2-Trichloroethane	50.0	48.2		ug/Kg		96	78 - 120
1,2-Dibromo-3-Chloropropane	50.0	43.1		ug/Kg		86	35 - 137
Ethylene Dibromide	50.0	48.7		ug/Kg		97	73 - 126
Dichlorodifluoromethane	20.0	24.0		ug/Kg		120	18 - 137
cis-1,2-Dichloroethene	50.0	56.0		ug/Kg		112	76 - 120
trans-1,2-Dichloroethene	50.0	58.0		ug/Kg		116	74 - 125
Isopropylbenzene	50.0	58.6		ug/Kg		117	74 - 120
Methyl tert-butyl ether	50.0	51.5		ug/Kg		103	66 - 120
1,2,4-Trichlorobenzene	50.0	55.1		ug/Kg		110	56 - 120
1,2-Dichlorobenzene	50.0	52.3		ug/Kg		105	74 - 120
1,3-Dichlorobenzene	50.0	54.2		ug/Kg		108	74 - 120
1,4-Dichlorobenzene	50.0	53.0		ug/Kg		106	74 - 120
Trichlorofluoromethane	20.0	24.0		ug/Kg		120	33 - 152
m-Xylene & p-Xylene	50.0	54.3		ug/Kg		109	76 - 120
o-Xylene	50.0	54.7		ug/Kg		109	76 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*88*		*59 - 120*
4-Bromofluorobenzene (Surr)	*97*		*51 - 127*
Toluene-d8 (Surr)	*94*		*64 - 124*
Dibromofluoromethane (Surr)	*92*		*56 - 122*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-135906-6 MS
Matrix: Solid
Analysis Batch: 450099

Client Sample ID: TP3_090120_S5
Prep Type: Total/NA
Prep Batch: 450128

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	<23		112	93.4		ug/Kg	☼	84	18 - 167
Benzene	<0.78		55.8	40.9		ug/Kg	☼	73	32 - 131
Dichlorobromomethane	<0.75		55.8	37.8		ug/Kg	☼	68	18 - 125
Bromoform	<2.7		55.8	25.0		ug/Kg	☼	45	10 - 122
Bromomethane	<1.1		22.3	21.3		ug/Kg	☼	95	10 - 149
2-Butanone (MEK)	<3.9		112	69.3		ug/Kg	☼	62	31 - 148
Carbon disulfide	<1.3		55.8	36.6		ug/Kg	☼	66	10 - 134
Carbon tetrachloride	<3.6		55.8	49.0		ug/Kg	☼	88	13 - 131
Chlorobenzene	<1.0		55.8	22.3		ug/Kg	☼	40	16 - 129
Chloroethane	<1.4		22.3	22.5		ug/Kg	☼	101	10 - 155
Chloroform	<0.88		55.8	44.5		ug/Kg	☼	80	38 - 129
Chloromethane	<1.2		22.3	21.0		ug/Kg	☼	94	20 - 140
1,1-Dichloroethane	<0.77		55.8	48.5		ug/Kg	☼	87	35 - 129
1,2-Dichloroethane	<0.86		55.8	35.4		ug/Kg	☼	63	33 - 130
1,1-Dichloroethene	<1.0		55.8	53.9		ug/Kg	☼	96	20 - 150
1,2-Dichloropropane	<0.95		55.8	42.2		ug/Kg	☼	76	33 - 134
cis-1,3-Dichloropropene	<1.6		55.8	22.6		ug/Kg	☼	41	12 - 131
trans-1,3-Dichloropropene	<1.1		55.8	17.3		ug/Kg	☼	31	10 - 123
Ethylbenzene	<1.2		55.8	25.8		ug/Kg	☼	46	12 - 133
2-Hexanone	<4.5		112	61.2		ug/Kg	☼	55	23 - 149
Methylene Chloride	<13		55.8	45.0		ug/Kg	☼	81	22 - 153
4-Methyl-2-pentanone (MIBK)	<4.1		112	95.1		ug/Kg	☼	85	29 - 140
Styrene	<1.3		55.8	16.9		ug/Kg	☼	30	10 - 127
1,1,2,2-Tetrachloroethane	<1.6	*3	55.8	66.7	*3	ug/Kg	☼	119	10 - 168
Tetrachloroethene	<0.81		55.8	31.2		ug/Kg	☼	56	13 - 144
Toluene	<0.86		55.8	37.9		ug/Kg	☼	68	20 - 141
Trichloroethene	<0.70		55.8	31.0		ug/Kg	☼	56	10 - 162
Vinyl chloride	<0.93		22.3	22.1		ug/Kg	☼	99	15 - 150
Xylenes, Total	<1.8		112	52.7		ug/Kg	☼	47	10 - 134
1,1,1-Trichloroethane	<0.91		55.8	54.4		ug/Kg	☼	97	27 - 131
1,1,2-Trichloroethane	<1.3		55.8	42.8		ug/Kg	☼	77	17 - 152
1,2-Dibromo-3-Chloropropane	<4.0	*3	55.8	32.8	*3	ug/Kg	☼	59	10 - 135
Ethylene Dibromide	<0.86		55.8	25.7		ug/Kg	☼	46	24 - 138
Dichlorodifluoromethane	<1.0		22.3	27.9		ug/Kg	☼	125	10 - 141
cis-1,2-Dichloroethene	<0.72		55.8	36.2		ug/Kg	☼	65	35 - 130
trans-1,2-Dichloroethene	<0.52		55.8	36.6		ug/Kg	☼	65	31 - 138
Isopropylbenzene	<0.92		55.8	26.6		ug/Kg	☼	48	10 - 135
Methyl tert-butyl ether	<0.91		55.8	56.1		ug/Kg	☼	100	42 - 127
1,2,4-Trichlorobenzene	<0.64	*3	55.8	6.96	*3	ug/Kg	☼	12	10 - 120
1,2-Dichlorobenzene	<1.2	*3	55.8	20.0	*3	ug/Kg	☼	36	10 - 131
1,3-Dichlorobenzene	<0.91	*3	55.8	17.8	*3	ug/Kg	☼	32	10 - 131
1,4-Dichlorobenzene	<0.98	*3	55.8	16.2	*3	ug/Kg	☼	29	10 - 129
Trichlorofluoromethane	<1.2		22.3	24.7		ug/Kg	☼	111	16 - 148
m-Xylene & p-Xylene	<0.87		55.8	23.7		ug/Kg	☼	42	10 - 132
o-Xylene	<0.96		55.8	29.0		ug/Kg	☼	52	11 - 134

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*88*		*59 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-135906-6 MS
Matrix: Solid
Analysis Batch: 450099

Client Sample ID: TP3_090120_S5
Prep Type: Total/NA
Prep Batch: 450128

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*135*	*X *3*	*51 - 127*
Toluene-d8 (Surr)	*121*		*64 - 124*
Dibromofluoromethane (Surr)	*97*		*56 - 122*

Lab Sample ID: 240-135906-6 MSD
Matrix: Solid
Analysis Batch: 450099

Client Sample ID: TP3_090120_S5
Prep Type: Total/NA
Prep Batch: 450128

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	<23		114	97.6		ug/Kg	☼	86	18 - 167	4	40
Benzene	<0.78		57.0	42.9		ug/Kg	☼	75	32 - 131	5	40
Dichlorobromomethane	<0.75		57.0	37.9		ug/Kg	☼	66	18 - 125	0	40
Bromoform	<2.7		57.0	25.3		ug/Kg	☼	44	10 - 122	1	40
Bromomethane	<1.1		22.8	21.5		ug/Kg	☼	94	10 - 149	1	40
2-Butanone (MEK)	<3.9		114	71.1		ug/Kg	☼	62	31 - 148	3	40
Carbon disulfide	<1.3		57.0	41.4		ug/Kg	☼	73	10 - 134	12	40
Carbon tetrachloride	<3.6		57.0	54.0		ug/Kg	☼	95	13 - 131	10	40
Chlorobenzene	<1.0		57.0	23.5		ug/Kg	☼	41	16 - 129	5	40
Chloroethane	<1.4		22.8	22.7		ug/Kg	☼	99	10 - 155	1	40
Chloroform	<0.88		57.0	45.4		ug/Kg	☼	80	38 - 129	2	40
Chloromethane	<1.2		22.8	21.3		ug/Kg	☼	94	20 - 140	2	40
1,1-Dichloroethane	<0.77		57.0	50.8		ug/Kg	☼	89	35 - 129	4	40
1,2-Dichloroethane	<0.86		57.0	34.7		ug/Kg	☼	61	33 - 130	2	40
1,1-Dichloroethene	<1.0		57.0	59.6		ug/Kg	☼	105	20 - 150	10	40
1,2-Dichloropropane	<0.95		57.0	43.1		ug/Kg	☼	75	33 - 134	2	40
cis-1,3-Dichloropropene	<1.6		57.0	22.6		ug/Kg	☼	40	12 - 131	0	40
trans-1,3-Dichloropropene	<1.1		57.0	17.0		ug/Kg	☼	30	10 - 123	2	40
Ethylbenzene	<1.2		57.0	29.0		ug/Kg	☼	51	12 - 133	12	40
2-Hexanone	<4.5		114	62.5		ug/Kg	☼	55	23 - 149	2	40
Methylene Chloride	<13		57.0	45.8		ug/Kg	☼	80	22 - 153	2	40
4-Methyl-2-pentanone (MIBK)	<4.1		114	94.8		ug/Kg	☼	83	29 - 140	0	40
Styrene	<1.3		57.0	17.9		ug/Kg	☼	31	10 - 127	6	40
1,1,2,2-Tetrachloroethane	<1.6	*3	57.0	67.0	*3	ug/Kg	☼	117	10 - 168	0	40
Tetrachloroethene	<0.81		57.0	35.6		ug/Kg	☼	62	13 - 144	13	40
Toluene	<0.86		57.0	40.4		ug/Kg	☼	71	20 - 141	6	40
Trichloroethene	<0.70		57.0	33.1		ug/Kg	☼	58	10 - 162	7	40
Vinyl chloride	<0.93		22.8	22.3		ug/Kg	☼	98	15 - 150	1	40
Xylenes, Total	<1.8		114	58.7		ug/Kg	☼	51	10 - 134	11	40
1,1,1-Trichloroethane	<0.91		57.0	58.2		ug/Kg	☼	102	27 - 131	7	40
1,1,2-Trichloroethane	<1.3		57.0	41.5		ug/Kg	☼	73	17 - 152	3	40
1,2-Dibromo-3-Chloropropane	<4.0	*3	57.0	31.5	*3	ug/Kg	☼	55	10 - 135	4	40
Ethylene Dibromide	<0.86		57.0	25.7		ug/Kg	☼	45	24 - 138	0	40
Dichlorodifluoromethane	<1.0		22.8	28.9		ug/Kg	☼	127	10 - 141	4	40
cis-1,2-Dichloroethene	<0.72		57.0	36.9		ug/Kg	☼	65	35 - 130	2	40
trans-1,2-Dichloroethene	<0.52		57.0	39.5		ug/Kg	☼	69	31 - 138	8	40
Isopropylbenzene	<0.92		57.0	30.7		ug/Kg	☼	54	10 - 135	14	40
Methyl tert-butyl ether	<0.91		57.0	58.8		ug/Kg	☼	103	42 - 127	5	40
1,2,4-Trichlorobenzene	<0.64	*3	57.0	7.98	*3	ug/Kg	☼	14	10 - 120	14	40

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-135906-6 MSD — **Client Sample ID: TP3_090120_S5**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 450099 — **Prep Batch: 450128**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichlorobenzene	<1.2	*3	57.0	21.9	*3	ug/Kg	☼	38	10 - 131	9	40
1,3-Dichlorobenzene	<0.91	*3	57.0	20.3	*3	ug/Kg	☼	36	10 - 131	13	40
1,4-Dichlorobenzene	<0.98	*3	57.0	17.6	*3	ug/Kg	☼	31	10 - 129	8	40
Trichlorofluoromethane	<1.2		22.8	25.8		ug/Kg	☼	113	16 - 148	4	40
m-Xylene & p-Xylene	<0.87		57.0	27.1		ug/Kg	☼	48	10 - 132	13	40
o-Xylene	<0.96		57.0	31.6		ug/Kg	☼	55	11 - 134	9	40

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*90*		*59 - 120*
4-Bromofluorobenzene (Surr)	*134*	*X *3*	*51 - 127*
Toluene-d8 (Surr)	*120*		*64 - 124*
Dibromofluoromethane (Surr)	*98*		*56 - 122*

Lab Sample ID: MB 240-450228/6 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 450228

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<21		25	21	ug/Kg			09/06/20 03:19	1
Benzene	<0.70		5.0	0.70	ug/Kg			09/06/20 03:19	1
Dichlorobromomethane	<0.68		5.0	0.68	ug/Kg			09/06/20 03:19	1
Bromoform	<2.4		5.0	2.4	ug/Kg			09/06/20 03:19	1
Bromomethane	<0.99		5.0	0.99	ug/Kg			09/06/20 03:19	1
2-Butanone (MEK)	<3.6		20	3.6	ug/Kg			09/06/20 03:19	1
Carbon disulfide	<1.2		5.0	1.2	ug/Kg			09/06/20 03:19	1
Carbon tetrachloride	<3.3		5.0	3.3	ug/Kg			09/06/20 03:19	1
Chlorobenzene	<0.92		5.0	0.92	ug/Kg			09/06/20 03:19	1
Chloroethane	<1.2		5.0	1.2	ug/Kg			09/06/20 03:19	1
Chloroform	<0.79		5.0	0.79	ug/Kg			09/06/20 03:19	1
Chloromethane	<1.0		5.0	1.0	ug/Kg			09/06/20 03:19	1
1,1-Dichloroethane	<0.69		5.0	0.69	ug/Kg			09/06/20 03:19	1
1,2-Dichloroethane	<0.77		5.0	0.77	ug/Kg			09/06/20 03:19	1
1,1-Dichloroethene	<0.90		5.0	0.90	ug/Kg			09/06/20 03:19	1
1,2-Dichloropropane	<0.85		5.0	0.85	ug/Kg			09/06/20 03:19	1
cis-1,3-Dichloropropene	<1.4		5.0	1.4	ug/Kg			09/06/20 03:19	1
trans-1,3-Dichloropropene	<1.0		5.0	1.0	ug/Kg			09/06/20 03:19	1
Ethylbenzene	<1.0		5.0	1.0	ug/Kg			09/06/20 03:19	1
2-Hexanone	<4.1		20	4.1	ug/Kg			09/06/20 03:19	1
Methylene Chloride	<12		25	12	ug/Kg			09/06/20 03:19	1
4-Methyl-2-pentanone (MIBK)	<3.7		20	3.7	ug/Kg			09/06/20 03:19	1
Styrene	<1.2		5.0	1.2	ug/Kg			09/06/20 03:19	1
1,1,2,2-Tetrachloroethane	<1.4		5.0	1.4	ug/Kg			09/06/20 03:19	1
Tetrachloroethene	<0.73		5.0	0.73	ug/Kg			09/06/20 03:19	1
Toluene	<0.77		5.0	0.77	ug/Kg			09/06/20 03:19	1
Trichloroethene	<0.63		5.0	0.63	ug/Kg			09/06/20 03:19	1
Vinyl chloride	<0.84		5.0	0.84	ug/Kg			09/06/20 03:19	1
Xylenes, Total	<1.6		10	1.6	ug/Kg			09/06/20 03:19	1
1,1,1-Trichloroethane	<0.82		5.0	0.82	ug/Kg			09/06/20 03:19	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-450228/6
Matrix: Solid
Analysis Batch: 450228

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<1.1		5.0	1.1	ug/Kg			09/06/20 03:19	1
1,2-Dibromo-3-Chloropropane	<3.6		10	3.6	ug/Kg			09/06/20 03:19	1
Ethylene Dibromide	<0.77		5.0	0.77	ug/Kg			09/06/20 03:19	1
Dichlorodifluoromethane	<0.94		5.0	0.94	ug/Kg			09/06/20 03:19	1
cis-1,2-Dichloroethene	<0.65		5.0	0.65	ug/Kg			09/06/20 03:19	1
trans-1,2-Dichloroethene	<0.47		5.0	0.47	ug/Kg			09/06/20 03:19	1
Isopropylbenzene	<0.83		5.0	0.83	ug/Kg			09/06/20 03:19	1
Methyl tert-butyl ether	<0.82		5.0	0.82	ug/Kg			09/06/20 03:19	1
1,2,4-Trichlorobenzene	<0.57		5.0	0.57	ug/Kg			09/06/20 03:19	1
1,2-Dichlorobenzene	<1.1		5.0	1.1	ug/Kg			09/06/20 03:19	1
1,3-Dichlorobenzene	<0.82		5.0	0.82	ug/Kg			09/06/20 03:19	1
1,4-Dichlorobenzene	<0.88		5.0	0.88	ug/Kg			09/06/20 03:19	1
Trichlorofluoromethane	<1.1		5.0	1.1	ug/Kg			09/06/20 03:19	1
Chlorodibromomethane	<2.8		5.0	2.8	ug/Kg			09/06/20 03:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*78*		*59 - 120*		*09/06/20 03:19*	*1*
4-Bromofluorobenzene (Surr)	*75*		*51 - 127*		*09/06/20 03:19*	*1*
Toluene-d8 (Surr)	*87*		*64 - 124*		*09/06/20 03:19*	*1*
Dibromofluoromethane (Surr)	*83*		*56 - 122*		*09/06/20 03:19*	*1*

Lab Sample ID: LCS 240-450228/5
Matrix: Solid
Analysis Batch: 450228

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	100	118		ug/Kg		118	47 - 157
Benzene	50.0	48.2		ug/Kg		96	75 - 120
Dichlorobromomethane	50.0	45.8		ug/Kg		92	63 - 121
Bromoform	50.0	49.6		ug/Kg		99	44 - 131
Bromomethane	20.0	15.6		ug/Kg		78	10 - 158
2-Butanone (MEK)	100	116		ug/Kg		116	61 - 131
Carbon disulfide	50.0	42.1		ug/Kg		84	33 - 144
Carbon tetrachloride	50.0	42.0		ug/Kg		84	54 - 130
Chlorobenzene	50.0	50.0		ug/Kg		100	79 - 120
Chloroethane	20.0	16.7		ug/Kg		84	10 - 159
Chloroform	50.0	45.9		ug/Kg		92	74 - 120
Chloromethane	20.0	17.6		ug/Kg		88	40 - 127
1,1-Dichloroethane	50.0	45.2		ug/Kg		90	69 - 120
1,2-Dichloroethane	50.0	47.7		ug/Kg		95	66 - 120
1,1-Dichloroethene	50.0	48.2		ug/Kg		96	48 - 140
1,2-Dichloropropane	50.0	48.9		ug/Kg		98	77 - 120
cis-1,3-Dichloropropene	50.0	44.3		ug/Kg		89	62 - 124
trans-1,3-Dichloropropene	50.0	39.2		ug/Kg		78	58 - 120
Ethylbenzene	50.0	47.0		ug/Kg		94	75 - 120
2-Hexanone	100	108		ug/Kg		108	54 - 135
Methylene Chloride	50.0	48.5		ug/Kg		97	48 - 142
4-Methyl-2-pentanone (MIBK)	100	107		ug/Kg		107	56 - 124

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-450228/5
Matrix: Solid
Analysis Batch: 450228

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Styrene	50.0	47.9		ug/Kg		96	70 - 120
1,1,2,2-Tetrachloroethane	50.0	48.3		ug/Kg		97	61 - 134
Tetrachloroethene	50.0	52.7		ug/Kg		105	75 - 124
Toluene	50.0	46.4		ug/Kg		93	76 - 120
Trichloroethene	50.0	51.9		ug/Kg		104	75 - 123
Vinyl chloride	20.0	18.9		ug/Kg		95	39 - 140
Xylenes, Total	100	94.2		ug/Kg		94	77 - 120
1,1,1-Trichloroethane	50.0	40.2		ug/Kg		80	60 - 126
1,1,2-Trichloroethane	50.0	51.8		ug/Kg		104	78 - 120
1,2-Dibromo-3-Chloropropane	50.0	42.1		ug/Kg		84	35 - 137
Ethylene Dibromide	50.0	52.0		ug/Kg		104	73 - 126
Dichlorodifluoromethane	20.0	18.1		ug/Kg		90	18 - 137
cis-1,2-Dichloroethene	50.0	50.0		ug/Kg		100	76 - 120
trans-1,2-Dichloroethene	50.0	49.6		ug/Kg		99	74 - 125
Isopropylbenzene	50.0	48.1		ug/Kg		96	74 - 120
Methyl tert-butyl ether	50.0	44.3		ug/Kg		89	66 - 120
1,2,4-Trichlorobenzene	50.0	48.0		ug/Kg		96	56 - 120
1,2-Dichlorobenzene	50.0	49.0		ug/Kg		98	74 - 120
1,3-Dichlorobenzene	50.0	47.8		ug/Kg		96	74 - 120
1,4-Dichlorobenzene	50.0	49.4		ug/Kg		99	74 - 120
Trichlorofluoromethane	20.0	15.3		ug/Kg		77	33 - 152
m-Xylene & p-Xylene	50.0	47.1		ug/Kg		94	76 - 120
o-Xylene	50.0	47.1		ug/Kg		94	76 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*82*		*59 - 120*
4-Bromofluorobenzene (Surr)	*83*		*51 - 127*
Toluene-d8 (Surr)	*95*		*64 - 124*
Dibromofluoromethane (Surr)	*92*		*56 - 122*

Lab Sample ID: MB 240-450350/6
Matrix: Solid
Analysis Batch: 450350

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<21		25	21	ug/Kg			09/08/20 11:51	1
Benzene	<0.70		5.0	0.70	ug/Kg			09/08/20 11:51	1
Dichlorobromomethane	<0.68		5.0	0.68	ug/Kg			09/08/20 11:51	1
Bromoform	<2.4		5.0	2.4	ug/Kg			09/08/20 11:51	1
Bromomethane	<0.99		5.0	0.99	ug/Kg			09/08/20 11:51	1
2-Butanone (MEK)	<3.6		20	3.6	ug/Kg			09/08/20 11:51	1
Carbon disulfide	<1.2		5.0	1.2	ug/Kg			09/08/20 11:51	1
Carbon tetrachloride	<3.3		5.0	3.3	ug/Kg			09/08/20 11:51	1
Chlorobenzene	<0.92		5.0	0.92	ug/Kg			09/08/20 11:51	1
Chloroethane	<1.2		5.0	1.2	ug/Kg			09/08/20 11:51	1
Chloroform	<0.79		5.0	0.79	ug/Kg			09/08/20 11:51	1
Chloromethane	<1.0		5.0	1.0	ug/Kg			09/08/20 11:51	1
1,1-Dichloroethane	<0.69		5.0	0.69	ug/Kg			09/08/20 11:51	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-450350/6
Matrix: Solid
Analysis Batch: 450350

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	<0.77		5.0	0.77	ug/Kg			09/08/20 11:51	1
1,1-Dichloroethene	<0.90		5.0	0.90	ug/Kg			09/08/20 11:51	1
1,2-Dichloropropane	<0.85		5.0	0.85	ug/Kg			09/08/20 11:51	1
cis-1,3-Dichloropropene	<1.4		5.0	1.4	ug/Kg			09/08/20 11:51	1
trans-1,3-Dichloropropene	<1.0		5.0	1.0	ug/Kg			09/08/20 11:51	1
Ethylbenzene	<1.0		5.0	1.0	ug/Kg			09/08/20 11:51	1
2-Hexanone	<4.1		20	4.1	ug/Kg			09/08/20 11:51	1
Methylene Chloride	<12		25	12	ug/Kg			09/08/20 11:51	1
4-Methyl-2-pentanone (MIBK)	<3.7		20	3.7	ug/Kg			09/08/20 11:51	1
Styrene	<1.2		5.0	1.2	ug/Kg			09/08/20 11:51	1
1,1,2,2-Tetrachloroethane	<1.4		5.0	1.4	ug/Kg			09/08/20 11:51	1
Tetrachloroethene	<0.73		5.0	0.73	ug/Kg			09/08/20 11:51	1
Toluene	<0.77		5.0	0.77	ug/Kg			09/08/20 11:51	1
Trichloroethene	<0.63		5.0	0.63	ug/Kg			09/08/20 11:51	1
Vinyl chloride	<0.84		5.0	0.84	ug/Kg			09/08/20 11:51	1
Xylenes, Total	<1.6		10	1.6	ug/Kg			09/08/20 11:51	1
1,1,1-Trichloroethane	<0.82		5.0	0.82	ug/Kg			09/08/20 11:51	1
1,1,2-Trichloroethane	<1.1		5.0	1.1	ug/Kg			09/08/20 11:51	1
1,2-Dibromo-3-Chloropropane	<3.6		10	3.6	ug/Kg			09/08/20 11:51	1
Ethylene Dibromide	<0.77		5.0	0.77	ug/Kg			09/08/20 11:51	1
Dichlorodifluoromethane	<0.94		5.0	0.94	ug/Kg			09/08/20 11:51	1
cis-1,2-Dichloroethene	<0.65		5.0	0.65	ug/Kg			09/08/20 11:51	1
trans-1,2-Dichloroethene	<0.47		5.0	0.47	ug/Kg			09/08/20 11:51	1
Isopropylbenzene	<0.83		5.0	0.83	ug/Kg			09/08/20 11:51	1
Methyl tert-butyl ether	<0.82		5.0	0.82	ug/Kg			09/08/20 11:51	1
1,2,4-Trichlorobenzene	<0.57		5.0	0.57	ug/Kg			09/08/20 11:51	1
1,2-Dichlorobenzene	<1.1		5.0	1.1	ug/Kg			09/08/20 11:51	1
1,3-Dichlorobenzene	<0.82		5.0	0.82	ug/Kg			09/08/20 11:51	1
1,4-Dichlorobenzene	<0.88		5.0	0.88	ug/Kg			09/08/20 11:51	1
Trichlorofluoromethane	<1.1		5.0	1.1	ug/Kg			09/08/20 11:51	1
Chlorodibromomethane	<2.8		5.0	2.8	ug/Kg			09/08/20 11:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*81*		*59 - 120*		*09/08/20 11:51*	*1*
4-Bromofluorobenzene (Surr)	*83*		*51 - 127*		*09/08/20 11:51*	*1*
Toluene-d8 (Surr)	*95*		*64 - 124*		*09/08/20 11:51*	*1*
Dibromofluoromethane (Surr)	*88*		*56 - 122*		*09/08/20 11:51*	*1*

Lab Sample ID: LCS 240-450350/5
Matrix: Solid
Analysis Batch: 450350

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	100	118		ug/Kg		118	47 - 157
Benzene	50.0	45.7		ug/Kg		91	75 - 120
Dichlorobromomethane	50.0	43.6		ug/Kg		87	63 - 121
Bromoform	50.0	50.0		ug/Kg		100	44 - 131
Bromomethane	20.0	13.9		ug/Kg		70	10 - 158

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-450350/5
Matrix: Solid
Analysis Batch: 450350

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Butanone (MEK)	100	120		ug/Kg		120	61 - 131
Carbon disulfide	50.0	39.3		ug/Kg		79	33 - 144
Carbon tetrachloride	50.0	38.3		ug/Kg		77	54 - 130
Chlorobenzene	50.0	47.5		ug/Kg		95	79 - 120
Chloroethane	20.0	15.3		ug/Kg		77	10 - 159
Chloroform	50.0	43.7		ug/Kg		87	74 - 120
Chloromethane	20.0	16.4		ug/Kg		82	40 - 127
1,1-Dichloroethane	50.0	42.8		ug/Kg		86	69 - 120
1,2-Dichloroethane	50.0	45.9		ug/Kg		92	66 - 120
1,1-Dichloroethene	50.0	44.5		ug/Kg		89	48 - 140
1,2-Dichloropropane	50.0	47.1		ug/Kg		94	77 - 120
cis-1,3-Dichloropropene	50.0	43.5		ug/Kg		87	62 - 124
trans-1,3-Dichloropropene	50.0	39.1		ug/Kg		78	58 - 120
Ethylbenzene	50.0	44.5		ug/Kg		89	75 - 120
2-Hexanone	100	114		ug/Kg		114	54 - 135
Methylene Chloride	50.0	45.9		ug/Kg		92	48 - 142
4-Methyl-2-pentanone (MIBK)	100	113		ug/Kg		113	56 - 124
Styrene	50.0	46.6		ug/Kg		93	70 - 120
1,1,2,2-Tetrachloroethane	50.0	47.5		ug/Kg		95	61 - 134
Tetrachloroethene	50.0	50.2		ug/Kg		100	75 - 124
Toluene	50.0	44.2		ug/Kg		88	76 - 120
Trichloroethene	50.0	49.4		ug/Kg		99	75 - 123
Vinyl chloride	20.0	15.4		ug/Kg		77	39 - 140
Xylenes, Total	100	90.7		ug/Kg		91	77 - 120
1,1,1-Trichloroethane	50.0	37.4		ug/Kg		75	60 - 126
1,1,2-Trichloroethane	50.0	51.0		ug/Kg		102	78 - 120
1,2-Dibromo-3-Chloropropane	50.0	44.7		ug/Kg		89	35 - 137
Ethylene Dibromide	50.0	52.1		ug/Kg		104	73 - 126
Dichlorodifluoromethane	20.0	14.8		ug/Kg		74	18 - 137
cis-1,2-Dichloroethene	50.0	47.9		ug/Kg		96	76 - 120
trans-1,2-Dichloroethene	50.0	46.7		ug/Kg		93	74 - 125
Isopropylbenzene	50.0	46.3		ug/Kg		93	74 - 120
Methyl tert-butyl ether	50.0	42.6		ug/Kg		85	66 - 120
1,2,4-Trichlorobenzene	50.0	47.8		ug/Kg		96	56 - 120
1,2-Dichlorobenzene	50.0	46.7		ug/Kg		93	74 - 120
1,3-Dichlorobenzene	50.0	46.7		ug/Kg		93	74 - 120
1,4-Dichlorobenzene	50.0	46.9		ug/Kg		94	74 - 120
Trichlorofluoromethane	20.0	13.1		ug/Kg		65	33 - 152
m-Xylene & p-Xylene	50.0	45.2		ug/Kg		90	76 - 120
o-Xylene	50.0	45.5		ug/Kg		91	76 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*86*		*59 - 120*
4-Bromofluorobenzene (Surr)	*85*		*51 - 127*
Toluene-d8 (Surr)	*98*		*64 - 124*
Dibromofluoromethane (Surr)	*94*		*56 - 122*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-135906-7 MS
Matrix: Solid
Analysis Batch: 450350

Client Sample ID: TP4_090120_S4
Prep Type: Total/NA
Prep Batch: 450383

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	87	*3	120	249		ug/Kg	☼	135	18 - 167
Benzene	2.5	J *3	60.1	51.0		ug/Kg	☼	81	32 - 131
Dichlorobromomethane	<0.83	*3	60.1	30.6		ug/Kg	☼	51	18 - 125
Bromoform	<2.9	*3	60.1	23.9	*3	ug/Kg	☼	40	10 - 122
Bromomethane	<1.2	*3	24.1	20.3		ug/Kg	☼	84	10 - 149
2-Butanone (MEK)	11	J *3	120	139		ug/Kg	☼	106	31 - 148
Carbon disulfide	4.1	J *3	60.1	46.3		ug/Kg	☼	70	10 - 134
Carbon tetrachloride	<4.0	*3	60.1	47.4		ug/Kg	☼	79	13 - 131
Chlorobenzene	<1.1	*3	60.1	41.7	*3	ug/Kg	☼	69	16 - 129
Chloroethane	<1.5	*3	24.1	23.3		ug/Kg	☼	97	10 - 155
Chloroform	<0.96	*3	60.1	51.0		ug/Kg	☼	85	38 - 129
Chloromethane	<1.3	*3	24.1	25.4		ug/Kg	☼	105	20 - 140
1,1-Dichloroethane	<0.85	*3	60.1	56.7		ug/Kg	☼	94	35 - 129
1,2-Dichloroethane	<0.94	*3	60.1	36.2		ug/Kg	☼	60	33 - 130
1,1-Dichloroethene	<1.1	*3	60.1	60.9		ug/Kg	☼	101	20 - 150
1,2-Dichloropropane	<1.0	*3	60.1	43.0		ug/Kg	☼	72	33 - 134
cis-1,3-Dichloropropene	<1.8	*3	60.1	15.4		ug/Kg	☼	26	12 - 131
trans-1,3-Dichloropropene	<1.3	*3	60.1	21.3	*3	ug/Kg	☼	35	10 - 123
Ethylbenzene	4.2	J *3	60.1	57.3	*3	ug/Kg	☼	88	12 - 133
2-Hexanone	<5.0	*3	120	75.5	*3	ug/Kg	☼	63	23 - 149
Methylene Chloride	<15	*3	60.1	60.2		ug/Kg	☼	100	22 - 153
4-Methyl-2-pentanone (MIBK)	<4.5	*3 F1	120	179	F1 *3	ug/Kg	☼	149	29 - 140
Styrene	<1.4	*3	60.1	21.5	*3	ug/Kg	☼	36	10 - 127
1,1,2,2-Tetrachloroethane	<1.7	*3 F1	60.1	114	F1 *3	ug/Kg	☼	190	10 - 168
Tetrachloroethene	<0.89	*3 F1	60.1	91.0	F1 *3	ug/Kg	☼	151	13 - 144
Toluene	6.7	*3	60.1	87.2	*3	ug/Kg	☼	134	20 - 141
Trichloroethene	<0.77	*3	60.1	37.6		ug/Kg	☼	63	10 - 162
Vinyl chloride	<1.0	*3	24.1	24.3		ug/Kg	☼	101	15 - 150
Xylenes, Total	5.3	J *3	120	103	*3	ug/Kg	☼	81	10 - 134
1,1,1-Trichloroethane	<1.0	*3	60.1	49.6		ug/Kg	☼	82	27 - 131
1,1,2-Trichloroethane	<1.4	*3	60.1	74.9	*3	ug/Kg	☼	124	17 - 152
1,2-Dibromo-3-Chloropropane	<4.4	*3	60.1	24.5	*3	ug/Kg	☼	41	10 - 135
Ethylene Dibromide	<0.94	*3	60.1	38.1	*3	ug/Kg	☼	63	24 - 138
Dichlorodifluoromethane	<1.2	*3	24.1	25.0		ug/Kg	☼	104	10 - 141
cis-1,2-Dichloroethene	<0.80	*3	60.1	45.9		ug/Kg	☼	76	35 - 130
trans-1,2-Dichloroethene	<0.57	*3	60.1	50.2		ug/Kg	☼	84	31 - 138
Isopropylbenzene	1.5	J *3	60.1	54.4	*3	ug/Kg	☼	88	10 - 135
Methyl tert-butyl ether	<1.0	*3	60.1	64.1		ug/Kg	☼	107	42 - 127
1,2,4-Trichlorobenzene	<0.70	*3	60.1	13.0	*3	ug/Kg	☼	22	10 - 120
1,2-Dichlorobenzene	<1.4	*3	60.1	36.1	*3	ug/Kg	☼	60	10 - 131
1,3-Dichlorobenzene	<1.0	*3	60.1	43.0	*3	ug/Kg	☼	72	10 - 131
1,4-Dichlorobenzene	<1.1	*3	60.1	36.2	*3	ug/Kg	☼	60	10 - 129
Trichlorofluoromethane	<1.3	*3	24.1	19.3		ug/Kg	☼	80	16 - 148
m-Xylene & p-Xylene	2.9	J *3	60.1	50.2	*3	ug/Kg	☼	79	10 - 132
o-Xylene	2.4	J *3	60.1	53.0	*3	ug/Kg	☼	84	11 - 134

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*76*		*59 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-135906-7 MS
Matrix: Solid
Analysis Batch: 450350

Client Sample ID: TP4_090120_S4
Prep Type: Total/NA
Prep Batch: 450383

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*117*	**3*	*51 - 127*
Toluene-d8 (Surr)	*175*	*X *3*	*64 - 124*
Dibromofluoromethane (Surr)	*97*		*56 - 122*

Lab Sample ID: 240-135906-7 MSD
Matrix: Solid
Analysis Batch: 450350

Client Sample ID: TP4_090120_S4
Prep Type: Total/NA
Prep Batch: 450383

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	87	*3	122	264	*3	ug/Kg	☼	145	18 - 167	6	40
Benzene	2.5	J *3	61.2	47.3	*3	ug/Kg	☼	73	32 - 131	7	40
Dichlorobromomethane	<0.83	*3	61.2	25.8	*3	ug/Kg	☼	42	18 - 125	17	40
Bromoform	<2.9	*3	61.2	20.5	*3	ug/Kg	☼	34	10 - 122	15	40
Bromomethane	<1.2	*3	24.5	21.5	*3	ug/Kg	☼	88	10 - 149	6	40
2-Butanone (MEK)	11	J *3	122	131	*3	ug/Kg	☼	98	31 - 148	6	40
Carbon disulfide	4.1	J *3	61.2	44.0	*3	ug/Kg	☼	65	10 - 134	5	40
Carbon tetrachloride	<4.0	*3	61.2	47.0	*3	ug/Kg	☼	77	13 - 131	1	40
Chlorobenzene	<1.1	*3	61.2	38.1	*3	ug/Kg	☼	62	16 - 129	9	40
Chloroethane	<1.5	*3	24.5	24.9	*3	ug/Kg	☼	102	10 - 155	7	40
Chloroform	<0.96	*3	61.2	47.2	*3	ug/Kg	☼	77	38 - 129	8	40
Chloromethane	<1.3	*3	24.5	27.4	*3	ug/Kg	☼	112	20 - 140	8	40
1,1-Dichloroethane	<0.85	*3	61.2	54.8	*3	ug/Kg	☼	90	35 - 129	3	40
1,2-Dichloroethane	<0.94	*3	61.2	31.2	*3	ug/Kg	☼	51	33 - 130	15	40
1,1-Dichloroethene	<1.1	*3	61.2	59.6	*3	ug/Kg	☼	97	20 - 150	2	40
1,2-Dichloropropane	<1.0	*3	61.2	39.0	*3	ug/Kg	☼	64	33 - 134	10	40
cis-1,3-Dichloropropene	<1.8	*3	61.2	12.4	*3	ug/Kg	☼	20	12 - 131	21	40
trans-1,3-Dichloropropene	<1.3	*3	61.2	17.6	*3	ug/Kg	☼	29	10 - 123	19	40
Ethylbenzene	4.2	J *3	61.2	54.1	*3	ug/Kg	☼	82	12 - 133	6	40
2-Hexanone	<5.0	*3	122	65.3	*3	ug/Kg	☼	53	23 - 149	14	40
Methylene Chloride	<15	*3	61.2	58.6	*3	ug/Kg	☼	96	22 - 153	3	40
4-Methyl-2-pentanone (MIBK)	<4.5	*3 F1	122	159	*3	ug/Kg	☼	130	29 - 140	12	40
Styrene	<1.4	*3	61.2	18.9	*3	ug/Kg	☼	31	10 - 127	13	40
1,1,2,2-Tetrachloroethane	<1.7	*3 F1	61.2	102	*3	ug/Kg	☼	166	10 - 168	11	40
Tetrachloroethene	<0.89	*3 F1	61.2	88.1	*3	ug/Kg	☼	144	13 - 144	3	40
Toluene	6.7	*3	61.2	84.5	*3	ug/Kg	☼	127	20 - 141	3	40
Trichloroethene	<0.77	*3	61.2	33.9	*3	ug/Kg	☼	55	10 - 162	10	40
Vinyl chloride	<1.0	*3	24.5	26.1	*3	ug/Kg	☼	106	15 - 150	7	40
Xylenes, Total	5.3	J *3	122	98.3	*3	ug/Kg	☼	76	10 - 134	5	40
1,1,1-Trichloroethane	<1.0	*3	61.2	49.4	*3	ug/Kg	☼	81	27 - 131	0	40
1,1,2-Trichloroethane	<1.4	*3	61.2	66.3	*3	ug/Kg	☼	108	17 - 152	12	40
1,2-Dibromo-3-Chloropropane	<4.4	*3	61.2	22.2	*3	ug/Kg	☼	36	10 - 135	10	40
Ethylene Dibromide	<0.94	*3	61.2	31.2	*3	ug/Kg	☼	51	24 - 138	20	40
Dichlorodifluoromethane	<1.2	*3	24.5	27.3	*3	ug/Kg	☼	111	10 - 141	9	40
cis-1,2-Dichloroethene	<0.80	*3	61.2	40.9	*3	ug/Kg	☼	67	35 - 130	12	40
trans-1,2-Dichloroethene	<0.57	*3	61.2	47.4	*3	ug/Kg	☼	77	31 - 138	6	40
Isopropylbenzene	1.5	J *3	61.2	53.5	*3	ug/Kg	☼	85	10 - 135	2	40
Methyl tert-butyl ether	<1.0	*3	61.2	62.9	*3	ug/Kg	☼	103	42 - 127	2	40
1,2,4-Trichlorobenzene	<0.70	*3	61.2	12.2	*3	ug/Kg	☼	20	10 - 120	6	40

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-135906-7 MSD
Matrix: Solid
Analysis Batch: 450350

Client Sample ID: TP4_090120_S4
Prep Type: Total/NA
Prep Batch: 450383

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichlorobenzene	<1.4	*3	61.2	33.4	*3	ug/Kg	☼	55	10 - 131	8	40
1,3-Dichlorobenzene	<1.0	*3	61.2	39.6	*3	ug/Kg	☼	65	10 - 131	8	40
1,4-Dichlorobenzene	<1.1	*3	61.2	32.8	*3	ug/Kg	☼	54	10 - 129	10	40
Trichlorofluoromethane	<1.3	*3	24.5	21.0	*3	ug/Kg	☼	86	16 - 148	9	40
m-Xylene & p-Xylene	2.9	J *3	61.2	48.5	*3	ug/Kg	☼	74	10 - 132	3	40
o-Xylene	2.4	J *3	61.2	49.8	*3	ug/Kg	☼	78	11 - 134	6	40

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*79*	**3*	*59 - 120*
4-Bromofluorobenzene (Surr)	*124*	**3*	*51 - 127*
Toluene-d8 (Surr)	*193*	*X *3*	*64 - 124*
Dibromofluoromethane (Surr)	*102*	**3*	*56 - 122*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-449846/19-A
Matrix: Solid
Analysis Batch: 450327

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 449846

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	<3.4		15	3.4	ug/Kg		09/03/20 08:59	09/08/20 09:43	1
Benzo[a]pyrene	<9.3		15	9.3	ug/Kg		09/03/20 08:59	09/08/20 09:43	1
Benzo[b]fluoranthene	<6.5		15	6.5	ug/Kg		09/03/20 08:59	09/08/20 09:43	1
Benzo[g,h,i]perylene	<7.1		15	7.1	ug/Kg		09/03/20 08:59	09/08/20 09:43	1
Benzo[k]fluoranthene	<6.9		15	6.9	ug/Kg		09/03/20 08:59	09/08/20 09:43	1
Anthracene	<2.4		15	2.4	ug/Kg		09/03/20 08:59	09/08/20 09:43	1
Chrysene	<1.5		15	1.5	ug/Kg		09/03/20 08:59	09/08/20 09:43	1
Dibenz(a,h)anthracene	<6.9		15	6.9	ug/Kg		09/03/20 08:59	09/08/20 09:43	1
Fluoranthene	<4.5		15	4.5	ug/Kg		09/03/20 08:59	09/08/20 09:43	1
Fluorene	<2.7		15	2.7	ug/Kg		09/03/20 08:59	09/08/20 09:43	1
Indeno[1,2,3-cd]pyrene	<7.4		15	7.4	ug/Kg		09/03/20 08:59	09/08/20 09:43	1
Phenanthrene	<2.2		15	2.2	ug/Kg		09/03/20 08:59	09/08/20 09:43	1
Pyrene	<2.1		15	2.1	ug/Kg		09/03/20 08:59	09/08/20 09:43	1
Acenaphthene	<2.9		15	2.9	ug/Kg		09/03/20 08:59	09/08/20 09:43	1
Acenaphthylene	<4.0		15	4.0	ug/Kg		09/03/20 08:59	09/08/20 09:43	1
Naphthalene	<2.4		15	2.4	ug/Kg		09/03/20 08:59	09/08/20 09:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*72*		*35 - 120*	*09/03/20 08:59*	*09/08/20 09:43*	*1*
2-Fluorophenol (Surr)	*65*		*26 - 120*	*09/03/20 08:59*	*09/08/20 09:43*	*1*
2,4,6-Tribromophenol (Surr)	*21*		*10 - 120*	*09/03/20 08:59*	*09/08/20 09:43*	*1*
Nitrobenzene-d5 (Surr)	*69*		*28 - 120*	*09/03/20 08:59*	*09/08/20 09:43*	*1*
Phenol-d5 (Surr)	*68*		*28 - 120*	*09/03/20 08:59*	*09/08/20 09:43*	*1*
Terphenyl-d14 (Surr)	*87*		*39 - 120*	*09/03/20 08:59*	*09/08/20 09:43*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-449846/20-A
Matrix: Solid
Analysis Batch: 450327

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 449846

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[a]anthracene	667	555		ug/Kg		83	52 - 120
Benzo[a]pyrene	667	628		ug/Kg		94	50 - 120
Benzo[b]fluoranthene	667	607		ug/Kg		91	52 - 120
Benzo[g,h,i]perylene	667	590		ug/Kg		88	54 - 120
Benzo[k]fluoranthene	667	567		ug/Kg		85	54 - 120
Anthracene	667	545		ug/Kg		82	52 - 120
Chrysene	667	570		ug/Kg		86	53 - 120
Dibenz(a,h)anthracene	667	594		ug/Kg		89	50 - 120
Fluoranthene	667	613		ug/Kg		92	54 - 120
Fluorene	667	500		ug/Kg		75	48 - 120
Indeno[1,2,3-cd]pyrene	667	592		ug/Kg		89	52 - 120
Phenanthrene	667	529		ug/Kg		79	50 - 120
Pyrene	667	560		ug/Kg		84	50 - 120
Acenaphthene	667	479		ug/Kg		72	45 - 120
Acenaphthylene	667	466		ug/Kg		70	45 - 120
Naphthalene	667	469		ug/Kg		70	39 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*73*		*35 - 120*
2-Fluorophenol (Surr)	*70*		*26 - 120*
2,4,6-Tribromophenol (Surr)	*38*		*10 - 120*
Nitrobenzene-d5 (Surr)	*73*		*28 - 120*
Phenol-d5 (Surr)	*73*		*28 - 120*
Terphenyl-d14 (Surr)	*95*		*39 - 120*

Lab Sample ID: 240-135906-4 MS
Matrix: Solid
Analysis Batch: 450919

Client Sample ID: TP2_090120_S2
Prep Type: Total/NA
Prep Batch: 449846

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[a]anthracene	520	F1	741	1440	F1	ug/Kg	☼	125	32 - 120
Benzo[a]pyrene	520	F1	741	1540	F1	ug/Kg	☼	138	35 - 120
Benzo[b]fluoranthene	630	F1	741	1610	F1	ug/Kg	☼	131	27 - 126
Benzo[g,h,i]perylene	300		741	995		ug/Kg	☼	93	29 - 122
Benzo[k]fluoranthene	200		741	1090		ug/Kg	☼	120	39 - 120
Anthracene	170	F1	741	977	F1	ug/Kg	☼	108	43 - 106
Chrysene	550	F1	741	1470	F1	ug/Kg	☼	124	31 - 121
Dibenz(a,h)anthracene	73	J	741	752		ug/Kg	☼	92	36 - 120
Fluoranthene	890	F1	741	2180	F1	ug/Kg	☼	174	30 - 125
Fluorene	120		741	809		ug/Kg	☼	93	44 - 120
Indeno[1,2,3-cd]pyrene	220		741	1030		ug/Kg	☼	110	34 - 120
Phenanthrene	1600	F1	741	2630	F1	ug/Kg	☼	143	31 - 120
Pyrene	780	F1	741	1880	F1	ug/Kg	☼	148	28 - 122
Acenaphthene	120		741	833		ug/Kg	☼	96	41 - 120
Acenaphthylene	51	J	741	637		ug/Kg	☼	79	39 - 120
Naphthalene	2600		741	3160		ug/Kg	☼	80	30 - 120

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-135906-4 MS
Matrix: Solid
Analysis Batch: 450919

Client Sample ID: TP2_090120_S2
Prep Type: Total/NA
Prep Batch: 449846

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Fluorobiphenyl (Surr)	87		35 - 120
2-Fluorophenol (Surr)	74		26 - 120
2,4,6-Tribromophenol (Surr)	66		10 - 120
Nitrobenzene-d5 (Surr)	85		28 - 120
Phenol-d5 (Surr)	77		28 - 120
Terphenyl-d14 (Surr)	96		39 - 120

Lab Sample ID: 240-135906-4 MSD
Matrix: Solid
Analysis Batch: 450919

Client Sample ID: TP2_090120_S2
Prep Type: Total/NA
Prep Batch: 449846

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzo[a]anthracene	520	F1	734	1220		ug/Kg	☼	95	32 - 120	17	37
Benzo[a]pyrene	520	F1	734	1260		ug/Kg	☼	101	35 - 120	20	38
Benzo[b]fluoranthene	630	F1	734	1390		ug/Kg	☼	103	27 - 126	14	40
Benzo[g,h,i]perylene	300		734	840		ug/Kg	☼	73	29 - 122	17	40
Benzo[k]fluoranthene	200		734	902		ug/Kg	☼	96	39 - 120	19	37
Anthracene	170	F1	734	892		ug/Kg	☼	98	43 - 106	9	32
Chrysene	550	F1	734	1240		ug/Kg	☼	94	31 - 121	16	37
Dibenz(a,h)anthracene	73	J	734	668		ug/Kg	☼	81	36 - 120	12	38
Fluoranthene	890	F1	734	1670		ug/Kg	☼	106	30 - 125	27	31
Fluorene	120		734	770		ug/Kg	☼	88	44 - 120	5	32
Indeno[1,2,3-cd]pyrene	220		734	850		ug/Kg	☼	86	34 - 120	20	40
Phenanthrene	1600	F1	734	2240		ug/Kg	☼	90	31 - 120	16	35
Pyrene	780	F1	734	1460		ug/Kg	☼	93	28 - 122	25	30
Acenaphthene	120		734	779		ug/Kg	☼	90	41 - 120	7	34
Acenaphthylene	51	J	734	631		ug/Kg	☼	79	39 - 120	1	34
Naphthalene	2600		734	3190		ug/Kg	☼	86	30 - 120	1	40

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorobiphenyl (Surr)	84		35 - 120
2-Fluorophenol (Surr)	65		26 - 120
2,4,6-Tribromophenol (Surr)	60		10 - 120
Nitrobenzene-d5 (Surr)	74		28 - 120
Phenol-d5 (Surr)	77		28 - 120
Terphenyl-d14 (Surr)	92		39 - 120

Lab Sample ID: MB 240-450055/20-A
Matrix: Solid
Analysis Batch: 450422

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 450055

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	<3.4		15	3.4	ug/Kg		09/04/20 08:21	09/08/20 16:00	1
Benzo[a]pyrene	<9.3		15	9.3	ug/Kg		09/04/20 08:21	09/08/20 16:00	1
Benzo[b]fluoranthene	<6.5		15	6.5	ug/Kg		09/04/20 08:21	09/08/20 16:00	1
Benzo[g,h,i]perylene	<7.1		15	7.1	ug/Kg		09/04/20 08:21	09/08/20 16:00	1
Benzo[k]fluoranthene	<6.9		15	6.9	ug/Kg		09/04/20 08:21	09/08/20 16:00	1
Anthracene	<2.4		15	2.4	ug/Kg		09/04/20 08:21	09/08/20 16:00	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-450055/20-A
Matrix: Solid
Analysis Batch: 450422

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 450055

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<1.5		15	1.5	ug/Kg		09/04/20 08:21	09/08/20 16:00	1
Dibenz(a,h)anthracene	<6.9		15	6.9	ug/Kg		09/04/20 08:21	09/08/20 16:00	1
Fluoranthene	<4.5		15	4.5	ug/Kg		09/04/20 08:21	09/08/20 16:00	1
Fluorene	<2.7		15	2.7	ug/Kg		09/04/20 08:21	09/08/20 16:00	1
Indeno[1,2,3-cd]pyrene	<7.4		15	7.4	ug/Kg		09/04/20 08:21	09/08/20 16:00	1
Phenanthrene	<2.2		15	2.2	ug/Kg		09/04/20 08:21	09/08/20 16:00	1
Pyrene	<2.1		15	2.1	ug/Kg		09/04/20 08:21	09/08/20 16:00	1
Acenaphthene	<2.9		15	2.9	ug/Kg		09/04/20 08:21	09/08/20 16:00	1
Acenaphthylene	<4.0		15	4.0	ug/Kg		09/04/20 08:21	09/08/20 16:00	1
Naphthalene	<2.4		15	2.4	ug/Kg		09/04/20 08:21	09/08/20 16:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*77*		*35 - 120*	*09/04/20 08:21*	*09/08/20 16:00*	*1*
2-Fluorophenol (Surr)	*76*		*26 - 120*	*09/04/20 08:21*	*09/08/20 16:00*	*1*
2,4,6-Tribromophenol (Surr)	*44*		*10 - 120*	*09/04/20 08:21*	*09/08/20 16:00*	*1*
Nitrobenzene-d5 (Surr)	*73*		*28 - 120*	*09/04/20 08:21*	*09/08/20 16:00*	*1*
Phenol-d5 (Surr)	*78*		*28 - 120*	*09/04/20 08:21*	*09/08/20 16:00*	*1*
Terphenyl-d14 (Surr)	*97*		*39 - 120*	*09/04/20 08:21*	*09/08/20 16:00*	*1*

Lab Sample ID: LCS 240-450055/21-A
Matrix: Solid
Analysis Batch: 450422

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 450055

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[a]anthracene	667	553		ug/Kg		83	52 - 120
Benzo[a]pyrene	667	605		ug/Kg		91	50 - 120
Benzo[b]fluoranthene	667	601		ug/Kg		90	52 - 120
Benzo[g,h,i]perylene	667	612		ug/Kg		92	54 - 120
Benzo[k]fluoranthene	667	600		ug/Kg		90	54 - 120
Anthracene	667	551		ug/Kg		83	52 - 120
Chrysene	667	548		ug/Kg		82	53 - 120
Dibenz(a,h)anthracene	667	593		ug/Kg		89	50 - 120
Fluoranthene	667	612		ug/Kg		92	54 - 120
Fluorene	667	550		ug/Kg		82	48 - 120
Indeno[1,2,3-cd]pyrene	667	601		ug/Kg		90	52 - 120
Phenanthrene	667	539		ug/Kg		81	50 - 120
Pyrene	667	582		ug/Kg		87	50 - 120
Acenaphthene	667	529		ug/Kg		79	45 - 120
Acenaphthylene	667	516		ug/Kg		77	45 - 120
Naphthalene	667	522		ug/Kg		78	39 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*76*		*35 - 120*
2-Fluorophenol (Surr)	*77*		*26 - 120*
2,4,6-Tribromophenol (Surr)	*49*		*10 - 120*
Nitrobenzene-d5 (Surr)	*75*		*28 - 120*
Phenol-d5 (Surr)	*78*		*28 - 120*
Terphenyl-d14 (Surr)	*95*		*39 - 120*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: 240-135927-4 MS
Matrix: Solid
Analysis Batch: 450622

Client Sample ID: TP8_090220_S1
Prep Type: Total/NA
Prep Batch: 450055

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[a]anthracene	31		824	676		ug/Kg	☼	78	32 - 120
Benzo[a]pyrene	41		824	741		ug/Kg	☼	85	35 - 120
Benzo[b]fluoranthene	64		824	765		ug/Kg	☼	85	27 - 126
Benzo[g,h,i]perylene	28		824	440		ug/Kg	☼	50	29 - 122
Benzo[k]fluoranthene	22		824	744		ug/Kg	☼	88	39 - 120
Anthracene	5.2	J	824	620		ug/Kg	☼	75	43 - 106
Chrysene	48		824	660		ug/Kg	☼	74	31 - 121
Dibenz(a,h)anthracene	<8.3		824	472		ug/Kg	☼	57	36 - 120
Fluoranthene	54		824	717		ug/Kg	☼	81	30 - 125
Fluorene	<3.3		824	632		ug/Kg	☼	77	44 - 120
Indeno[1,2,3-cd]pyrene	23		824	494		ug/Kg	☼	57	34 - 120
Phenanthrene	54		824	669		ug/Kg	☼	75	31 - 120
Pyrene	53		824	727		ug/Kg	☼	82	28 - 122
Acenaphthene	<3.5		824	618		ug/Kg	☼	75	41 - 120
Acenaphthylene	<4.8		824	609		ug/Kg	☼	74	39 - 120
Naphthalene	60		824	679		ug/Kg	☼	75	30 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*73*		*35 - 120*
2-Fluorophenol (Surr)	*68*		*26 - 120*
2,4,6-Tribromophenol (Surr)	*69*		*10 - 120*
Nitrobenzene-d5 (Surr)	*70*		*28 - 120*
Phenol-d5 (Surr)	*74*		*28 - 120*
Terphenyl-d14 (Surr)	*87*		*39 - 120*

Lab Sample ID: 240-135927-4 MSD
Matrix: Solid
Analysis Batch: 450622

Client Sample ID: TP8_090220_S1
Prep Type: Total/NA
Prep Batch: 450055

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzo[a]anthracene	31		813	644		ug/Kg	☼	75	32 - 120	5	37
Benzo[a]pyrene	41		813	679		ug/Kg	☼	78	35 - 120	9	38
Benzo[b]fluoranthene	64		813	712		ug/Kg	☼	80	27 - 126	7	40
Benzo[g,h,i]perylene	28		813	413		ug/Kg	☼	47	29 - 122	6	40
Benzo[k]fluoranthene	22		813	683		ug/Kg	☼	81	39 - 120	9	37
Anthracene	5.2	J	813	605		ug/Kg	☼	74	43 - 106	2	32
Chrysene	48		813	639		ug/Kg	☼	73	31 - 121	3	37
Dibenz(a,h)anthracene	<8.3		813	446		ug/Kg	☼	55	36 - 120	6	38
Fluoranthene	54		813	678		ug/Kg	☼	77	30 - 125	6	31
Fluorene	<3.3		813	599		ug/Kg	☼	74	44 - 120	5	32
Indeno[1,2,3-cd]pyrene	23		813	455		ug/Kg	☼	53	34 - 120	8	40
Phenanthrene	54		813	637		ug/Kg	☼	72	31 - 120	5	35
Pyrene	53		813	684		ug/Kg	☼	78	28 - 122	6	30
Acenaphthene	<3.5		813	574		ug/Kg	☼	71	41 - 120	7	34
Acenaphthylene	<4.8		813	564		ug/Kg	☼	69	39 - 120	8	34
Naphthalene	60		813	578		ug/Kg	☼	64	30 - 120	16	40

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-135927-4 MSD
Matrix: Solid
Analysis Batch: 450622

Client Sample ID: TP8_090220_S1
Prep Type: Total/NA
Prep Batch: 450055

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*67*		*35 - 120*
2-Fluorophenol (Surr)	*55*		*26 - 120*
2,4,6-Tribromophenol (Surr)	*66*		*10 - 120*
Nitrobenzene-d5 (Surr)	*58*		*28 - 120*
Phenol-d5 (Surr)	*64*		*28 - 120*
Terphenyl-d14 (Surr)	*87*		*39 - 120*

Lab Sample ID: MB 240-450562/23-A
Matrix: Solid
Analysis Batch: 450925

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 450562

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	<3.4		15	3.4	ug/Kg		09/09/20 09:23	09/11/20 09:10	1
Benzo[a]pyrene	<9.3		15	9.3	ug/Kg		09/09/20 09:23	09/11/20 09:10	1
Benzo[b]fluoranthene	<6.5		15	6.5	ug/Kg		09/09/20 09:23	09/11/20 09:10	1
Benzo[g,h,i]perylene	<7.1		15	7.1	ug/Kg		09/09/20 09:23	09/11/20 09:10	1
Benzo[k]fluoranthene	<6.9		15	6.9	ug/Kg		09/09/20 09:23	09/11/20 09:10	1
Anthracene	<2.4		15	2.4	ug/Kg		09/09/20 09:23	09/11/20 09:10	1
Chrysene	<1.5		15	1.5	ug/Kg		09/09/20 09:23	09/11/20 09:10	1
Dibenz(a,h)anthracene	<6.9		15	6.9	ug/Kg		09/09/20 09:23	09/11/20 09:10	1
Fluoranthene	<4.5		15	4.5	ug/Kg		09/09/20 09:23	09/11/20 09:10	1
Fluorene	<2.7		15	2.7	ug/Kg		09/09/20 09:23	09/11/20 09:10	1
Indeno[1,2,3-cd]pyrene	<7.4		15	7.4	ug/Kg		09/09/20 09:23	09/11/20 09:10	1
Phenanthrene	<2.2		15	2.2	ug/Kg		09/09/20 09:23	09/11/20 09:10	1
Pyrene	<2.1		15	2.1	ug/Kg		09/09/20 09:23	09/11/20 09:10	1
Acenaphthene	<2.9		15	2.9	ug/Kg		09/09/20 09:23	09/11/20 09:10	1
Acenaphthylene	<4.0		15	4.0	ug/Kg		09/09/20 09:23	09/11/20 09:10	1
Naphthalene	<2.4		15	2.4	ug/Kg		09/09/20 09:23	09/11/20 09:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*70*		*35 - 120*	*09/09/20 09:23*	*09/11/20 09:10*	*1*
2-Fluorophenol (Surr)	*88*		*26 - 120*	*09/09/20 09:23*	*09/11/20 09:10*	*1*
2,4,6-Tribromophenol (Surr)	*36*		*10 - 120*	*09/09/20 09:23*	*09/11/20 09:10*	*1*
Nitrobenzene-d5 (Surr)	*80*		*28 - 120*	*09/09/20 09:23*	*09/11/20 09:10*	*1*
Phenol-d5 (Surr)	*78*		*28 - 120*	*09/09/20 09:23*	*09/11/20 09:10*	*1*
Terphenyl-d14 (Surr)	*99*		*39 - 120*	*09/09/20 09:23*	*09/11/20 09:10*	*1*

Lab Sample ID: LCS 240-450562/24-A
Matrix: Solid
Analysis Batch: 450925

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 450562

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[a]anthracene	667	590		ug/Kg		88	52 - 120
Benzo[a]pyrene	667	666		ug/Kg		100	50 - 120
Benzo[b]fluoranthene	667	705		ug/Kg		106	52 - 120
Benzo[g,h,i]perylene	667	623		ug/Kg		93	54 - 120
Benzo[k]fluoranthene	667	614		ug/Kg		92	54 - 120
Anthracene	667	581		ug/Kg		87	52 - 120

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-450562/24-A
Matrix: Solid
Analysis Batch: 450925

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 450562

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chrysene	667	555		ug/Kg		83	53 - 120
Dibenz(a,h)anthracene	667	620		ug/Kg		93	50 - 120
Fluoranthene	667	609		ug/Kg		91	54 - 120
Fluorene	667	551		ug/Kg		83	48 - 120
Indeno[1,2,3-cd]pyrene	667	600		ug/Kg		90	52 - 120
Phenanthrene	667	569		ug/Kg		85	50 - 120
Pyrene	667	535		ug/Kg		80	50 - 120
Acenaphthene	667	516		ug/Kg		77	45 - 120
Acenaphthylene	667	516		ug/Kg		77	45 - 120
Naphthalene	667	498		ug/Kg		75	39 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*76*		*35 - 120*
2-Fluorophenol (Surr)	*88*		*26 - 120*
2,4,6-Tribromophenol (Surr)	*39*		*10 - 120*
Nitrobenzene-d5 (Surr)	*83*		*28 - 120*
Phenol-d5 (Surr)	*86*		*28 - 120*
Terphenyl-d14 (Surr)	*93*		*39 - 120*

Lab Sample ID: MB 240-450940/23-A
Matrix: Solid
Analysis Batch: 451314

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 450940

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	<3.4		15	3.4	ug/Kg		09/11/20 09:03	09/15/20 09:40	1
Benzo[a]pyrene	<9.3		15	9.3	ug/Kg		09/11/20 09:03	09/15/20 09:40	1
Benzo[b]fluoranthene	<6.5		15	6.5	ug/Kg		09/11/20 09:03	09/15/20 09:40	1
Benzo[g,h,i]perylene	<7.1		15	7.1	ug/Kg		09/11/20 09:03	09/15/20 09:40	1
Benzo[k]fluoranthene	<6.9		15	6.9	ug/Kg		09/11/20 09:03	09/15/20 09:40	1
Anthracene	<2.4		15	2.4	ug/Kg		09/11/20 09:03	09/15/20 09:40	1
Chrysene	<1.5		15	1.5	ug/Kg		09/11/20 09:03	09/15/20 09:40	1
Dibenz(a,h)anthracene	<6.9		15	6.9	ug/Kg		09/11/20 09:03	09/15/20 09:40	1
Fluoranthene	<4.5		15	4.5	ug/Kg		09/11/20 09:03	09/15/20 09:40	1
Fluorene	<2.7		15	2.7	ug/Kg		09/11/20 09:03	09/15/20 09:40	1
Indeno[1,2,3-cd]pyrene	<7.4		15	7.4	ug/Kg		09/11/20 09:03	09/15/20 09:40	1
Phenanthrene	<2.2		15	2.2	ug/Kg		09/11/20 09:03	09/15/20 09:40	1
Pyrene	<2.1		15	2.1	ug/Kg		09/11/20 09:03	09/15/20 09:40	1
Acenaphthene	<2.9		15	2.9	ug/Kg		09/11/20 09:03	09/15/20 09:40	1
Acenaphthylene	<4.0		15	4.0	ug/Kg		09/11/20 09:03	09/15/20 09:40	1
Naphthalene	<2.4		15	2.4	ug/Kg		09/11/20 09:03	09/15/20 09:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*61*		*35 - 120*	*09/11/20 09:03*	*09/15/20 09:40*	*1*
2-Fluorophenol (Surr)	*59*		*26 - 120*	*09/11/20 09:03*	*09/15/20 09:40*	*1*
2,4,6-Tribromophenol (Surr)	*14*		*10 - 120*	*09/11/20 09:03*	*09/15/20 09:40*	*1*
Nitrobenzene-d5 (Surr)	*59*		*28 - 120*	*09/11/20 09:03*	*09/15/20 09:40*	*1*
Phenol-d5 (Surr)	*59*		*28 - 120*	*09/11/20 09:03*	*09/15/20 09:40*	*1*
Terphenyl-d14 (Surr)	*76*		*39 - 120*	*09/11/20 09:03*	*09/15/20 09:40*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: LCS 240-450940/24-A
Matrix: Solid
Analysis Batch: 451314

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 450940

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[a]anthracene	667	558		ug/Kg		84	52 - 120
Benzo[a]pyrene	667	623		ug/Kg		93	50 - 120
Benzo[b]fluoranthene	667	628		ug/Kg		94	52 - 120
Benzo[g,h,i]perylene	667	583		ug/Kg		87	54 - 120
Benzo[k]fluoranthene	667	596		ug/Kg		89	54 - 120
Anthracene	667	553		ug/Kg		83	52 - 120
Chrysene	667	553		ug/Kg		83	53 - 120
Dibenz(a,h)anthracene	667	603		ug/Kg		90	50 - 120
Fluoranthene	667	602		ug/Kg		90	54 - 120
Fluorene	667	522		ug/Kg		78	48 - 120
Indeno[1,2,3-cd]pyrene	667	608		ug/Kg		91	52 - 120
Phenanthrene	667	542		ug/Kg		81	50 - 120
Pyrene	667	558		ug/Kg		84	50 - 120
Acenaphthene	667	508		ug/Kg		76	45 - 120
Acenaphthylene	667	479		ug/Kg		72	45 - 120
Naphthalene	667	493		ug/Kg		74	39 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*72*		*35 - 120*
2-Fluorophenol (Surr)	*70*		*26 - 120*
2,4,6-Tribromophenol (Surr)	*41*		*10 - 120*
Nitrobenzene-d5 (Surr)	*74*		*28 - 120*
Phenol-d5 (Surr)	*70*		*28 - 120*
Terphenyl-d14 (Surr)	*91*		*39 - 120*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 240-449817/23-A
Matrix: Solid
Analysis Batch: 450262

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 449817

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<22		50	22	ug/Kg		09/03/20 08:01	09/08/20 08:07	1
Aroclor-1221	<24		50	24	ug/Kg		09/03/20 08:01	09/08/20 08:07	1
Aroclor-1232	<23		50	23	ug/Kg		09/03/20 08:01	09/08/20 08:07	1
Aroclor-1242	<19		50	19	ug/Kg		09/03/20 08:01	09/08/20 08:07	1
Aroclor-1248	<24		50	24	ug/Kg		09/03/20 08:01	09/08/20 08:07	1
Aroclor-1254	29.3	J	50	23	ug/Kg		09/03/20 08:01	09/08/20 08:07	1
Aroclor-1260	<22		50	22	ug/Kg		09/03/20 08:01	09/08/20 08:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*87*		*14 - 128*	*09/03/20 08:01*	*09/08/20 08:07*	*1*
DCB Decachlorobiphenyl	*101*		*10 - 132*	*09/03/20 08:01*	*09/08/20 08:07*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 240-449817/24-A
Matrix: Solid
Analysis Batch: 450262

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 449817

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor-1016			1000	869		ug/Kg		87	47 - 120		
Aroclor-1260			1000	830		ug/Kg		83	46 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*96*		*14 - 128*
DCB Decachlorobiphenyl	*110*		*10 - 132*

Lab Sample ID: MB 240-450726/12-A
Matrix: Solid
Analysis Batch: 451078

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 450726

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<22		50	22	ug/Kg		09/10/20 08:42	09/14/20 08:26	1
Aroclor-1221	<24		50	24	ug/Kg		09/10/20 08:42	09/14/20 08:26	1
Aroclor-1232	<23		50	23	ug/Kg		09/10/20 08:42	09/14/20 08:26	1
Aroclor-1242	<19		50	19	ug/Kg		09/10/20 08:42	09/14/20 08:26	1
Aroclor-1248	<24		50	24	ug/Kg		09/10/20 08:42	09/14/20 08:26	1
Aroclor-1254	<23		50	23	ug/Kg		09/10/20 08:42	09/14/20 08:26	1
Aroclor-1260	<22		50	22	ug/Kg		09/10/20 08:42	09/14/20 08:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*63*		*14 - 128*	*09/10/20 08:42*	*09/14/20 08:26*	*1*
DCB Decachlorobiphenyl	*80*		*10 - 132*	*09/10/20 08:42*	*09/14/20 08:26*	*1*

Lab Sample ID: LCS 240-450726/13-A
Matrix: Solid
Analysis Batch: 451078

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 450726

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor-1016			1000	1010		ug/Kg		101	47 - 120		
Aroclor-1260			1000	1010		ug/Kg		101	46 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*108*		*14 - 128*
DCB Decachlorobiphenyl	*120*		*10 - 132*

Lab Sample ID: MB 240-450914/22-A
Matrix: Solid
Analysis Batch: 451277

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 450914

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<22		50	22	ug/Kg		09/11/20 08:04	09/15/20 07:28	1
Aroclor-1221	<24		50	24	ug/Kg		09/11/20 08:04	09/15/20 07:28	1
Aroclor-1232	<23		50	23	ug/Kg		09/11/20 08:04	09/15/20 07:28	1
Aroclor-1242	<19		50	19	ug/Kg		09/11/20 08:04	09/15/20 07:28	1
Aroclor-1248	<24		50	24	ug/Kg		09/11/20 08:04	09/15/20 07:28	1
Aroclor-1254	<23		50	23	ug/Kg		09/11/20 08:04	09/15/20 07:28	1
Aroclor-1260	<22		50	22	ug/Kg		09/11/20 08:04	09/15/20 07:28	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	79		14 - 128	09/11/20 08:04	09/15/20 07:28	1
DCB Decachlorobiphenyl	105		10 - 132	09/11/20 08:04	09/15/20 07:28	1

Lab Sample ID: LCS 240-450914/23-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 451277 — **Prep Batch: 450914**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1016	1000	693		ug/Kg		69	47 - 120
Aroclor-1260	1000	753		ug/Kg		75	46 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	78		14 - 128
DCB Decachlorobiphenyl	103		10 - 132

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 240-450065/23-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 450484 — **Prep Batch: 450065**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	<22		50	22	ug/Kg		09/04/20 09:09	09/09/20 07:47	1
Aroclor-1221	<24		50	24	ug/Kg		09/04/20 09:09	09/09/20 07:47	1
Aroclor-1232	<23		50	23	ug/Kg		09/04/20 09:09	09/09/20 07:47	1
Aroclor-1242	<19		50	19	ug/Kg		09/04/20 09:09	09/09/20 07:47	1
Aroclor-1248	<24		50	24	ug/Kg		09/04/20 09:09	09/09/20 07:47	1
Aroclor-1254	<23		50	23	ug/Kg		09/04/20 09:09	09/09/20 07:47	1
Aroclor-1260	<22		50	22	ug/Kg		09/04/20 09:09	09/09/20 07:47	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	67		14 - 128	09/04/20 09:09	09/09/20 07:47	1
DCB Decachlorobiphenyl	100		10 - 132	09/04/20 09:09	09/09/20 07:47	1

Lab Sample ID: LCS 240-450065/24-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 450484 — **Prep Batch: 450065**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1016	1000	742		ug/Kg		74	47 - 120
Aroclor-1260	1000	784		ug/Kg		78	46 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	82		14 - 128
DCB Decachlorobiphenyl	104		10 - 132

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 240-135927-4 MS — **Client Sample ID: TP8_090220_S1**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 450484 — **Prep Batch: 450065**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1016	<27		1180	933		ug/Kg	☼	79	31 - 120
Aroclor-1260	<27		1180	958		ug/Kg	☼	81	21 - 122

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*95*		*14 - 128*
DCB Decachlorobiphenyl	*78*		*10 - 132*

Lab Sample ID: 240-135927-4 MSD — **Client Sample ID: TP8_090220_S1**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 450484 — **Prep Batch: 450065**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor-1016	<27		1250	978		ug/Kg	☼	78	31 - 120	5	30
Aroclor-1260	<27		1250	1010		ug/Kg	☼	81	21 - 122	6	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*95*		*14 - 128*
DCB Decachlorobiphenyl	*81*		*10 - 132*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 240-449705/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 450107 — **Prep Batch: 449705**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.36		20	0.36	mg/Kg		09/02/20 14:00	09/03/20 21:37	1
Cadmium	<0.048		0.20	0.048	mg/Kg		09/02/20 14:00	09/03/20 21:37	1
Chromium	<0.15		0.50	0.15	mg/Kg		09/02/20 14:00	09/03/20 21:37	1
Silver	<0.081		0.50	0.081	mg/Kg		09/02/20 14:00	09/03/20 21:37	1
Arsenic	<0.32		1.0	0.32	mg/Kg		09/02/20 14:00	09/03/20 21:37	1
Lead	<0.28		1.0	0.28	mg/Kg		09/02/20 14:00	09/03/20 21:37	1
Selenium	<0.47		1.5	0.47	mg/Kg		09/02/20 14:00	09/03/20 21:37	1
Nickel	<0.23		4.0	0.23	mg/Kg		09/02/20 14:00	09/03/20 21:37	1
Antimony	<0.36		1.0	0.36	mg/Kg		09/02/20 14:00	09/03/20 21:37	1
Sodium	<63		500	63	mg/Kg		09/02/20 14:00	09/03/20 21:37	1
Potassium	<36		500	36	mg/Kg		09/02/20 14:00	09/03/20 21:37	1
Beryllium	<0.054		0.50	0.054	mg/Kg		09/02/20 14:00	09/03/20 21:37	1
Thallium	<0.40		1.0	0.40	mg/Kg		09/02/20 14:00	09/03/20 21:37	1
Calcium	<36		500	36	mg/Kg		09/02/20 14:00	09/03/20 21:37	1
Iron	<6.9		10	6.9	mg/Kg		09/02/20 14:00	09/03/20 21:37	1
Vanadium	<0.82		5.0	0.82	mg/Kg		09/02/20 14:00	09/03/20 21:37	1
Magnesium	<46		500	46	mg/Kg		09/02/20 14:00	09/03/20 21:37	1
Copper	<0.24		2.5	0.24	mg/Kg		09/02/20 14:00	09/03/20 21:37	1
Aluminum	<5.3		20	5.3	mg/Kg		09/02/20 14:00	09/03/20 21:37	1
Zinc	<1.4		5.0	1.4	mg/Kg		09/02/20 14:00	09/03/20 21:37	1
Manganese	<0.31		1.5	0.31	mg/Kg		09/02/20 14:00	09/03/20 21:37	1
Cobalt	<0.20		1.0	0.20	mg/Kg		09/02/20 14:00	09/03/20 21:37	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 240-449705/2-A
Matrix: Solid
Analysis Batch: 450107

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 449705

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	200	187		mg/Kg		94	80 - 120
Cadmium	100	95.6		mg/Kg		96	80 - 120
Chromium	100	93.5		mg/Kg		94	80 - 120
Silver	10.0	9.29		mg/Kg		93	80 - 120
Arsenic	200	192		mg/Kg		96	80 - 120
Lead	100	89.9		mg/Kg		90	80 - 120
Selenium	200	188		mg/Kg		94	80 - 120
Nickel	100	96.2		mg/Kg		96	80 - 120
Antimony	100	90.7		mg/Kg		91	80 - 120
Sodium	5000	4660		mg/Kg		93	80 - 120
Potassium	5000	4630		mg/Kg		93	80 - 120
Beryllium	100	97.6		mg/Kg		98	80 - 120
Thallium	200	175		mg/Kg		88	80 - 120
Calcium	5000	4670		mg/Kg		93	80 - 120
Iron	1000	944		mg/Kg		94	80 - 120
Vanadium	100	96.7		mg/Kg		97	80 - 120
Magnesium	5000	4580		mg/Kg		92	80 - 120
Copper	100	93.4		mg/Kg		93	80 - 120
Aluminum	1000	938		mg/Kg		94	80 - 120
Zinc	100	98.0		mg/Kg		98	80 - 120
Manganese	100	93.0		mg/Kg		93	80 - 120
Cobalt	100	95.6		mg/Kg		96	80 - 120

Lab Sample ID: MB 240-449911/1-A
Matrix: Solid
Analysis Batch: 450107

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 449911

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<5.3		20	5.3	mg/Kg		09/03/20 14:00	09/04/20 09:12	1
Antimony	<0.36		1.0	0.36	mg/Kg		09/03/20 14:00	09/04/20 09:12	1
Barium	<0.36		20	0.36	mg/Kg		09/03/20 14:00	09/04/20 09:12	1
Beryllium	<0.054		0.50	0.054	mg/Kg		09/03/20 14:00	09/04/20 09:12	1
Calcium	<36		500	36	mg/Kg		09/03/20 14:00	09/04/20 09:12	1
Cadmium	<0.048		0.20	0.048	mg/Kg		09/03/20 14:00	09/04/20 09:12	1
Cobalt	<0.20		1.0	0.20	mg/Kg		09/03/20 14:00	09/04/20 09:12	1
Chromium	<0.15		0.50	0.15	mg/Kg		09/03/20 14:00	09/04/20 09:12	1
Copper	<0.24		2.5	0.24	mg/Kg		09/03/20 14:00	09/04/20 09:12	1
Iron	<6.9		10	6.9	mg/Kg		09/03/20 14:00	09/04/20 09:12	1
Potassium	<36		500	36	mg/Kg		09/03/20 14:00	09/04/20 09:12	1
Magnesium	<46		500	46	mg/Kg		09/03/20 14:00	09/04/20 09:12	1
Manganese	<0.31		1.5	0.31	mg/Kg		09/03/20 14:00	09/04/20 09:12	1
Silver	<0.081		0.50	0.081	mg/Kg		09/03/20 14:00	09/04/20 09:12	1
Sodium	<63		500	63	mg/Kg		09/03/20 14:00	09/04/20 09:12	1
Nickel	<0.23		4.0	0.23	mg/Kg		09/03/20 14:00	09/04/20 09:12	1
Vanadium	<0.82		5.0	0.82	mg/Kg		09/03/20 14:00	09/04/20 09:12	1
Zinc	<1.4		5.0	1.4	mg/Kg		09/03/20 14:00	09/04/20 09:12	1
Arsenic	<0.32		1.0	0.32	mg/Kg		09/03/20 14:00	09/04/20 09:12	1
Lead	<0.28		1.0	0.28	mg/Kg		09/03/20 14:00	09/04/20 09:12	1
Selenium	<0.47		1.5	0.47	mg/Kg		09/03/20 14:00	09/04/20 09:12	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 240-449911/1-A
Matrix: Solid
Analysis Batch: 450107

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 449911

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.40		1.0	0.40	mg/Kg		09/03/20 14:00	09/04/20 09:12	1

Lab Sample ID: LCS 240-449911/2-A
Matrix: Solid
Analysis Batch: 450107

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 449911

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	1000	938		mg/Kg		94	80 - 120
Antimony	100	84.5		mg/Kg		84	80 - 120
Barium	200	192		mg/Kg		96	80 - 120
Beryllium	100	94.2		mg/Kg		94	80 - 120
Calcium	5000	4820		mg/Kg		96	80 - 120
Cadmium	100	95.5		mg/Kg		95	80 - 120
Cobalt	100	98.1		mg/Kg		98	80 - 120
Chromium	100	94.9		mg/Kg		95	80 - 120
Copper	100	96.3		mg/Kg		96	80 - 120
Iron	1000	935		mg/Kg		94	80 - 120
Potassium	5000	4800		mg/Kg		96	80 - 120
Magnesium	5000	4730		mg/Kg		95	80 - 120
Manganese	100	95.1		mg/Kg		95	80 - 120
Silver	10.0	9.81		mg/Kg		98	80 - 120
Sodium	5000	4770		mg/Kg		95	80 - 120
Nickel	100	96.1		mg/Kg		96	80 - 120
Vanadium	100	98.3		mg/Kg		98	80 - 120
Zinc	100	102		mg/Kg		102	80 - 120
Arsenic	200	195		mg/Kg		97	80 - 120
Lead	100	95.2		mg/Kg		95	80 - 120
Selenium	200	190		mg/Kg		95	80 - 120
Thallium	200	184		mg/Kg		92	80 - 120

Lab Sample ID: 240-135927-4 MS
Matrix: Solid
Analysis Batch: 450107

Client Sample ID: TP8_090220_S1
Prep Type: Total/NA
Prep Batch: 449911

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	9100		1160	11900	4	mg/Kg	☼	240	75 - 125
Antimony	<0.35	F1	116	44.6	F1	mg/Kg	☼	38	75 - 125
Barium	140	F1	233	289	F1	mg/Kg	☼	66	75 - 125
Beryllium	0.92		116	94.0		mg/Kg	☼	80	75 - 125
Calcium	74000		5820	80200	4	mg/Kg	☼	115	75 - 125
Cadmium	0.32		116	96.3		mg/Kg	☼	82	75 - 125
Cobalt	6.9		116	105		mg/Kg	☼	84	75 - 125
Chromium	27	F2	116	118		mg/Kg	☼	78	75 - 125
Copper	13		116	107		mg/Kg	☼	81	75 - 125
Iron	15000	F2	1160	17500	4	mg/Kg	☼	227	75 - 125
Potassium	830		5820	5790		mg/Kg	☼	85	75 - 125
Magnesium	11000	F2 F1	5820	30700	F1	mg/Kg	☼	335	75 - 125
Manganese	1300	F2	116	1150	4	mg/Kg	☼	-162	75 - 125
Silver	<0.078		11.6	9.01		mg/Kg	☼	77	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 240-135927-4 MS — **Client Sample ID: TP8_090220_S1**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 450107 — **Prep Batch: 449911**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sodium	150	J	5820	4870		mg/Kg	☼	81	75 - 125
Nickel	21	F2	116	116		mg/Kg	☼	81	75 - 125
Vanadium	17		116	116		mg/Kg	☼	86	75 - 125
Zinc	77		116	173		mg/Kg	☼	82	75 - 125
Arsenic	12		233	203		mg/Kg	☼	82	75 - 125
Lead	27		116	119		mg/Kg	☼	79	75 - 125
Selenium	<0.45		233	191		mg/Kg	☼	82	75 - 125
Thallium	<0.38		233	187		mg/Kg	☼	80	75 - 125

Lab Sample ID: 240-135927-4 MSD — **Client Sample ID: TP8_090220_S1**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 450107 — **Prep Batch: 449911**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	9100		1160	14200	4	mg/Kg	☼	436	75 - 125	18	20
Antimony	<0.35	F1	116	51.0	F1	mg/Kg	☼	44	75 - 125	13	20
Barium	140	F1	233	352		mg/Kg	☼	93	75 - 125	20	20
Beryllium	0.92		116	106		mg/Kg	☼	90	75 - 125	12	20
Calcium	74000		5820	76700	4	mg/Kg	☼	54	75 - 125	5	20
Cadmium	0.32		116	108		mg/Kg	☼	92	75 - 125	11	20
Cobalt	6.9		116	121		mg/Kg	☼	98	75 - 125	14	20
Chromium	27	F2	116	149	F2	mg/Kg	☼	104	75 - 125	23	20
Copper	13		116	125		mg/Kg	☼	97	75 - 125	16	20
Iron	15000	F2	1160	26300	4 F2	mg/Kg	☼	983	75 - 125	40	20
Potassium	830		5820	6640		mg/Kg	☼	100	75 - 125	14	20
Magnesium	11000	F2 F1	5820	17400	F2	mg/Kg	☼	106	75 - 125	55	20
Manganese	1300	F2	116	1690	4 F2	mg/Kg	☼	297	75 - 125	38	20
Silver	<0.078		11.6	10.6		mg/Kg	☼	91	75 - 125	16	20
Sodium	150	J	5820	5410		mg/Kg	☼	90	75 - 125	11	20
Nickel	21	F2	116	144	F2	mg/Kg	☼	105	75 - 125	22	20
Vanadium	17		116	135		mg/Kg	☼	102	75 - 125	15	20
Zinc	77		116	206		mg/Kg	☼	111	75 - 125	18	20
Arsenic	12		233	236		mg/Kg	☼	96	75 - 125	15	20
Lead	27		116	144		mg/Kg	☼	100	75 - 125	18	20
Selenium	<0.45		233	214		mg/Kg	☼	92	75 - 125	11	20
Thallium	<0.38		233	211		mg/Kg	☼	90	75 - 125	12	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 240-449713/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 450124 — **Prep Batch: 449713**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.018		0.10	0.018	mg/Kg		09/02/20 14:00	09/04/20 09:55	1

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 240-449713/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 450124 — **Prep Batch: 449713**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.835		mg/Kg		100	80 - 120

Lab Sample ID: MB 240-449915/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 450124 — **Prep Batch: 449915**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.018		0.10	0.018	mg/Kg		09/03/20 14:00	09/04/20 10:53	1

Lab Sample ID: LCS 240-449915/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 450124 — **Prep Batch: 449915**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.827		mg/Kg		99	80 - 120

Lab Sample ID: 240-135927-4 MS — **Client Sample ID: TP8_090220_S1**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 450124 — **Prep Batch: 449915**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.033	J	0.182	0.227		mg/Kg	☼	106	80 - 120

Lab Sample ID: 240-135927-4 MSD — **Client Sample ID: TP8_090220_S1**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 450124 — **Prep Batch: 449915**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.033	J	0.182	0.234		mg/Kg	☼	110	80 - 120	3	20

Method: Moisture - Percent Moisture

Lab Sample ID: 240-135906-11 DU — **Client Sample ID: TP5_090120_S5_DUP**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 449974

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Solids	76.7		77.2		%			20
Percent Moisture	23.3		22.8		%			20

Lab Sample ID: 240-135927-4 DU — **Client Sample ID: TP8_090220_S1**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 449974

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Solids	81.8		73.5		%		11	20
Percent Moisture	18.2		26.5	F3	%		37	20

QC Association Summary

Client: EnviroScience Inc
Project/Site: Clark Ave Extension

Job ID: 240-135906-1

GC/MS VOA

Analysis Batch: 450017

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-135927-1	TP6_090220_S7	Total/NA	Solid	8260B	450029
240-135927-2	TP6_090220_S4	Total/NA	Solid	8260B	450029
240-135927-3	TP7_090220_S1	Total/NA	Solid	8260B	450029
240-135927-4	TP8_090220_S1	Total/NA	Solid	8260B	450029
MB 240-450017/6	Method Blank	Total/NA	Solid	8260B	
LCS 240-450017/5	Lab Control Sample	Total/NA	Solid	8260B	
240-135927-4 MS	TP8_090220_S1	Total/NA	Solid	8260B	450029
240-135927-4 MSD	TP8_090220_S1	Total/NA	Solid	8260B	450029

Prep Batch: 450029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-135927-1	TP6_090220_S7	Total/NA	Solid	5030A	
240-135927-2	TP6_090220_S4	Total/NA	Solid	5030A	
240-135927-3	TP7_090220_S1	Total/NA	Solid	5030A	
240-135927-4	TP8_090220_S1	Total/NA	Solid	5030A	
240-135927-4 MS	TP8_090220_S1	Total/NA	Solid	5030A	
240-135927-4 MSD	TP8_090220_S1	Total/NA	Solid	5030A	

Analysis Batch: 450099

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-135906-1	TP1_090120_S5	Total/NA	Solid	8260B	450128
240-135906-3	TP2_090120_S4	Total/NA	Solid	8260B	450128
240-135906-4	TP2_090120_S2	Total/NA	Solid	8260B	450128
240-135906-5	TP3_090120_S1	Total/NA	Solid	8260B	450128
240-135906-6	TP3_090120_S5	Total/NA	Solid	8260B	450128
240-135906-8	TP4_090120_S5	Total/NA	Solid	8260B	450128
240-135906-9	TP5_090120_S5	Total/NA	Solid	8260B	450128
MB 240-450099/8	Method Blank	Total/NA	Solid	8260B	
LCS 240-450099/5	Lab Control Sample	Total/NA	Solid	8260B	
240-135906-6 MS	TP3_090120_S5	Total/NA	Solid	8260B	450128
240-135906-6 MSD	TP3_090120_S5	Total/NA	Solid	8260B	450128

Prep Batch: 450128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-135906-1	TP1_090120_S5	Total/NA	Solid	5030A	
240-135906-3	TP2_090120_S4	Total/NA	Solid	5030A	
240-135906-4	TP2_090120_S2	Total/NA	Solid	5030A	
240-135906-5	TP3_090120_S1	Total/NA	Solid	5030A	
240-135906-6	TP3_090120_S5	Total/NA	Solid	5030A	
240-135906-8	TP4_090120_S5	Total/NA	Solid	5030A	
240-135906-9	TP5_090120_S5	Total/NA	Solid	5030A	
240-135906-6 MS	TP3_090120_S5	Total/NA	Solid	5030A	
240-135906-6 MSD	TP3_090120_S5	Total/NA	Solid	5030A	

Analysis Batch: 450228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-135906-11	TP5_090120_S5_DUP	Total/NA	Solid	8260B	450230
MB 240-450228/6	Method Blank	Total/NA	Solid	8260B	
LCS 240-450228/5	Lab Control Sample	Total/NA	Solid	8260B	

QC Association Summary

Client: EnviroScience Inc
Project/Site: Clark Ave Extension

Job ID: 240-135906-1

GC/MS VOA

Prep Batch: 450230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-135906-11	TP5_090120_S5_DUP	Total/NA	Solid	5030A	

Analysis Batch: 450350

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-135906-2	TP1_090120_S3	Total/NA	Solid	8260B	450383
240-135906-7	TP4_090120_S4	Total/NA	Solid	8260B	450383
240-135906-10	TP5_090120_S3	Total/NA	Solid	8260B	450383
MB 240-450350/6	Method Blank	Total/NA	Solid	8260B	
LCS 240-450350/5	Lab Control Sample	Total/NA	Solid	8260B	
240-135906-7 MS	TP4_090120_S4	Total/NA	Solid	8260B	450383
240-135906-7 MSD	TP4_090120_S4	Total/NA	Solid	8260B	450383

Prep Batch: 450383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-135906-2	TP1_090120_S3	Total/NA	Solid	5030A	
240-135906-7	TP4_090120_S4	Total/NA	Solid	5030A	
240-135906-10	TP5_090120_S3	Total/NA	Solid	5030A	
240-135906-7 MS	TP4_090120_S4	Total/NA	Solid	5030A	
240-135906-7 MSD	TP4_090120_S4	Total/NA	Solid	5030A	

GC/MS Semi VOA

Prep Batch: 449846

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-135906-1	TP1_090120_S5	Total/NA	Solid	3540C	
240-135906-2	TP1_090120_S3	Total/NA	Solid	3540C	
240-135906-3	TP2_090120_S4	Total/NA	Solid	3540C	
240-135906-4	TP2_090120_S2	Total/NA	Solid	3540C	
MB 240-449846/19-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-449846/20-A	Lab Control Sample	Total/NA	Solid	3540C	
240-135906-4 MS	TP2_090120_S2	Total/NA	Solid	3540C	
240-135906-4 MSD	TP2_090120_S2	Total/NA	Solid	3540C	

Prep Batch: 450055

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-135927-1	TP6_090220_S7	Total/NA	Solid	3540C	
240-135927-2	TP6_090220_S4	Total/NA	Solid	3540C	
240-135927-3	TP7_090220_S1	Total/NA	Solid	3540C	
240-135927-4	TP8_090220_S1	Total/NA	Solid	3540C	
MB 240-450055/20-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-450055/21-A	Lab Control Sample	Total/NA	Solid	3540C	
240-135927-4 MS	TP8_090220_S1	Total/NA	Solid	3540C	
240-135927-4 MSD	TP8_090220_S1	Total/NA	Solid	3540C	

Analysis Batch: 450327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-135906-1	TP1_090120_S5	Total/NA	Solid	8270C	449846
240-135906-2	TP1_090120_S3	Total/NA	Solid	8270C	449846
MB 240-449846/19-A	Method Blank	Total/NA	Solid	8270C	449846
LCS 240-449846/20-A	Lab Control Sample	Total/NA	Solid	8270C	449846

QC Association Summary

Client: EnviroScience Inc
Project/Site: Clark Ave Extension

Job ID: 240-135906-1

GC/MS Semi VOA

Analysis Batch: 450422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 240-450055/20-A	Method Blank	Total/NA	Solid	8270C	450055
LCS 240-450055/21-A	Lab Control Sample	Total/NA	Solid	8270C	450055

Analysis Batch: 450528

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-135906-3	TP2_090120_S4	Total/NA	Solid	8270C	449846

Prep Batch: 450562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-135906-6	TP3_090120_S5	Total/NA	Solid	3540C	
240-135906-7	TP4_090120_S4	Total/NA	Solid	3540C	
240-135906-8	TP4_090120_S5	Total/NA	Solid	3540C	
240-135906-9	TP5_090120_S5	Total/NA	Solid	3540C	
240-135906-10	TP5_090120_S3	Total/NA	Solid	3540C	
240-135906-11	TP5_090120_S5_DUP	Total/NA	Solid	3540C	
MB 240-450562/23-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-450562/24-A	Lab Control Sample	Total/NA	Solid	3540C	

Analysis Batch: 450622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-135927-1	TP6_090220_S7	Total/NA	Solid	8270C	450055
240-135927-2	TP6_090220_S4	Total/NA	Solid	8270C	450055
240-135927-3	TP7_090220_S1	Total/NA	Solid	8270C	450055
240-135927-4	TP8_090220_S1	Total/NA	Solid	8270C	450055
240-135927-4 MS	TP8_090220_S1	Total/NA	Solid	8270C	450055
240-135927-4 MSD	TP8_090220_S1	Total/NA	Solid	8270C	450055

Analysis Batch: 450919

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-135906-4	TP2_090120_S2	Total/NA	Solid	8270C	449846
240-135906-4 MS	TP2_090120_S2	Total/NA	Solid	8270C	449846
240-135906-4 MSD	TP2_090120_S2	Total/NA	Solid	8270C	449846

Analysis Batch: 450925

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 240-450562/23-A	Method Blank	Total/NA	Solid	8270C	450562
LCS 240-450562/24-A	Lab Control Sample	Total/NA	Solid	8270C	450562

Prep Batch: 450940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-135906-5	TP3_090120_S1	Total/NA	Solid	3540C	
MB 240-450940/23-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-450940/24-A	Lab Control Sample	Total/NA	Solid	3540C	

Analysis Batch: 451145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-135906-11	TP5_090120_S5_DUP	Total/NA	Solid	8270C	450562

Analysis Batch: 451314

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-135906-5	TP3_090120_S1	Total/NA	Solid	8270C	450940

GC/MS Semi VOA (Continued)

Analysis Batch: 451314 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 240-450940/23-A	Method Blank	Total/NA	Solid	8270C	450940
LCS 240-450940/24-A	Lab Control Sample	Total/NA	Solid	8270C	450940

Analysis Batch: 451322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-135906-6	TP3_090120_S5	Total/NA	Solid	8270C	450562
240-135906-7	TP4_090120_S4	Total/NA	Solid	8270C	450562
240-135906-8	TP4_090120_S5	Total/NA	Solid	8270C	450562
240-135906-9	TP5_090120_S5	Total/NA	Solid	8270C	450562
240-135906-10	TP5_090120_S3	Total/NA	Solid	8270C	450562

GC Semi VOA

Prep Batch: 449817

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-135906-1	TP1_090120_S5	Total/NA	Solid	3540C	
240-135906-3	TP2_090120_S4	Total/NA	Solid	3540C	
240-135906-4	TP2_090120_S2	Total/NA	Solid	3540C	
240-135906-5	TP3_090120_S1	Total/NA	Solid	3540C	
240-135906-6	TP3_090120_S5	Total/NA	Solid	3540C	
240-135906-7	TP4_090120_S4	Total/NA	Solid	3540C	
240-135906-8	TP4_090120_S5	Total/NA	Solid	3540C	
240-135906-9	TP5_090120_S5	Total/NA	Solid	3540C	
240-135906-10	TP5_090120_S3	Total/NA	Solid	3540C	
240-135906-11	TP5_090120_S5_DUP	Total/NA	Solid	3540C	
MB 240-449817/23-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-449817/24-A	Lab Control Sample	Total/NA	Solid	3540C	

Prep Batch: 450065

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-135927-1	TP6_090220_S7	Total/NA	Solid	3540C	
240-135927-2	TP6_090220_S4	Total/NA	Solid	3540C	
240-135927-3	TP7_090220_S1	Total/NA	Solid	3540C	
240-135927-4	TP8_090220_S1	Total/NA	Solid	3540C	
MB 240-450065/23-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-450065/24-A	Lab Control Sample	Total/NA	Solid	3540C	
240-135927-4 MS	TP8_090220_S1	Total/NA	Solid	3540C	
240-135927-4 MSD	TP8_090220_S1	Total/NA	Solid	3540C	

Analysis Batch: 450262

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-135906-1	TP1_090120_S5	Total/NA	Solid	8082	449817
240-135906-5	TP3_090120_S1	Total/NA	Solid	8082	449817
240-135906-6	TP3_090120_S5	Total/NA	Solid	8082	449817
240-135906-7	TP4_090120_S4	Total/NA	Solid	8082	449817
240-135906-8	TP4_090120_S5	Total/NA	Solid	8082	449817
240-135906-9	TP5_090120_S5	Total/NA	Solid	8082	449817
240-135906-11	TP5_090120_S5_DUP	Total/NA	Solid	8082	449817
MB 240-449817/23-A	Method Blank	Total/NA	Solid	8082	449817
LCS 240-449817/24-A	Lab Control Sample	Total/NA	Solid	8082	449817

QC Association Summary

Client: EnviroScience Inc
Project/Site: Clark Ave Extension

Job ID: 240-135906-1

GC Semi VOA

Analysis Batch: 450484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-135927-1	TP6_090220_S7	Total/NA	Solid	8082A	450065
240-135927-2	TP6_090220_S4	Total/NA	Solid	8082A	450065
240-135927-3	TP7_090220_S1	Total/NA	Solid	8082A	450065
240-135927-4	TP8_090220_S1	Total/NA	Solid	8082A	450065
MB 240-450065/23-A	Method Blank	Total/NA	Solid	8082A	450065
LCS 240-450065/24-A	Lab Control Sample	Total/NA	Solid	8082A	450065
240-135927-4 MS	TP8_090220_S1	Total/NA	Solid	8082A	450065
240-135927-4 MSD	TP8_090220_S1	Total/NA	Solid	8082A	450065

Analysis Batch: 450499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-135906-3	TP2_090120_S4	Total/NA	Solid	8082	449817
240-135906-4	TP2_090120_S2	Total/NA	Solid	8082	449817
240-135906-10	TP5_090120_S3	Total/NA	Solid	8082	449817

Prep Batch: 450726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 240-450726/12-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-450726/13-A	Lab Control Sample	Total/NA	Solid	3540C	

Prep Batch: 450914

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-135906-2	TP1_090120_S3	Total/NA	Solid	3540C	
MB 240-450914/22-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-450914/23-A	Lab Control Sample	Total/NA	Solid	3540C	

Analysis Batch: 451078

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 240-450726/12-A	Method Blank	Total/NA	Solid	8082	450726
LCS 240-450726/13-A	Lab Control Sample	Total/NA	Solid	8082	450726

Analysis Batch: 451277

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-135906-2	TP1_090120_S3	Total/NA	Solid	8082	450914
MB 240-450914/22-A	Method Blank	Total/NA	Solid	8082	450914
LCS 240-450914/23-A	Lab Control Sample	Total/NA	Solid	8082	450914

Metals

Prep Batch: 449705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-135906-1	TP1_090120_S5	Total/NA	Solid	3050B	
240-135906-2	TP1_090120_S3	Total/NA	Solid	3050B	
240-135906-3	TP2_090120_S4	Total/NA	Solid	3050B	
240-135906-4	TP2_090120_S2	Total/NA	Solid	3050B	
240-135906-5	TP3_090120_S1	Total/NA	Solid	3050B	
240-135906-6	TP3_090120_S5	Total/NA	Solid	3050B	
240-135906-7	TP4_090120_S4	Total/NA	Solid	3050B	
240-135906-8	TP4_090120_S5	Total/NA	Solid	3050B	
240-135906-9	TP5_090120_S5	Total/NA	Solid	3050B	
240-135906-10	TP5_090120_S3	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 449705 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-135906-11	TP5_090120_S5_DUP	Total/NA	Solid	3050B	
MB 240-449705/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 240-449705/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 449713

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-135906-1	TP1_090120_S5	Total/NA	Solid	7471A	
240-135906-2	TP1_090120_S3	Total/NA	Solid	7471A	
240-135906-3	TP2_090120_S4	Total/NA	Solid	7471A	
240-135906-4	TP2_090120_S2	Total/NA	Solid	7471A	
240-135906-5	TP3_090120_S1	Total/NA	Solid	7471A	
240-135906-6	TP3_090120_S5	Total/NA	Solid	7471A	
240-135906-7	TP4_090120_S4	Total/NA	Solid	7471A	
240-135906-8	TP4_090120_S5	Total/NA	Solid	7471A	
240-135906-9	TP5_090120_S5	Total/NA	Solid	7471A	
240-135906-10	TP5_090120_S3	Total/NA	Solid	7471A	
240-135906-11	TP5_090120_S5_DUP	Total/NA	Solid	7471A	
MB 240-449713/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 240-449713/2-A	Lab Control Sample	Total/NA	Solid	7471A	

Prep Batch: 449911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-135927-1	TP6_090220_S7	Total/NA	Solid	3050B	
240-135927-2	TP6_090220_S4	Total/NA	Solid	3050B	
240-135927-3	TP7_090220_S1	Total/NA	Solid	3050B	
240-135927-4	TP8_090220_S1	Total/NA	Solid	3050B	
MB 240-449911/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 240-449911/2-A	Lab Control Sample	Total/NA	Solid	3050B	
240-135927-4 MS	TP8_090220_S1	Total/NA	Solid	3050B	
240-135927-4 MSD	TP8_090220_S1	Total/NA	Solid	3050B	

Prep Batch: 449915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-135927-1	TP6_090220_S7	Total/NA	Solid	7471A	
240-135927-2	TP6_090220_S4	Total/NA	Solid	7471A	
240-135927-3	TP7_090220_S1	Total/NA	Solid	7471A	
240-135927-4	TP8_090220_S1	Total/NA	Solid	7471A	
MB 240-449915/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 240-449915/2-A	Lab Control Sample	Total/NA	Solid	7471A	
240-135927-4 MS	TP8_090220_S1	Total/NA	Solid	7471A	
240-135927-4 MSD	TP8_090220_S1	Total/NA	Solid	7471A	

Analysis Batch: 450107

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-135906-1	TP1_090120_S5	Total/NA	Solid	6010B	449705
240-135906-2	TP1_090120_S3	Total/NA	Solid	6010B	449705
240-135906-3	TP2_090120_S4	Total/NA	Solid	6010B	449705
240-135906-4	TP2_090120_S2	Total/NA	Solid	6010B	449705
240-135906-5	TP3_090120_S1	Total/NA	Solid	6010B	449705
240-135906-6	TP3_090120_S5	Total/NA	Solid	6010B	449705
240-135906-7	TP4_090120_S4	Total/NA	Solid	6010B	449705

Metals (Continued)

Analysis Batch: 450107 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-135906-8	TP4_090120_S5	Total/NA	Solid	6010B	449705
240-135906-9	TP5_090120_S5	Total/NA	Solid	6010B	449705
240-135906-10	TP5_090120_S3	Total/NA	Solid	6010B	449705
240-135906-11	TP5_090120_S5_DUP	Total/NA	Solid	6010B	449705
240-135927-1	TP6_090220_S7	Total/NA	Solid	6010B	449911
240-135927-2	TP6_090220_S4	Total/NA	Solid	6010B	449911
240-135927-3	TP7_090220_S1	Total/NA	Solid	6010B	449911
240-135927-4	TP8_090220_S1	Total/NA	Solid	6010B	449911
MB 240-449705/1-A	Method Blank	Total/NA	Solid	6010B	449705
MB 240-449911/1-A	Method Blank	Total/NA	Solid	6010B	449911
LCS 240-449705/2-A	Lab Control Sample	Total/NA	Solid	6010B	449705
LCS 240-449911/2-A	Lab Control Sample	Total/NA	Solid	6010B	449911
240-135927-4 MS	TP8_090220_S1	Total/NA	Solid	6010B	449911
240-135927-4 MSD	TP8_090220_S1	Total/NA	Solid	6010B	449911

Analysis Batch: 450124

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-135906-1	TP1_090120_S5	Total/NA	Solid	7471A	449713
240-135906-2	TP1_090120_S3	Total/NA	Solid	7471A	449713
240-135906-3	TP2_090120_S4	Total/NA	Solid	7471A	449713
240-135906-4	TP2_090120_S2	Total/NA	Solid	7471A	449713
240-135906-5	TP3_090120_S1	Total/NA	Solid	7471A	449713
240-135906-6	TP3_090120_S5	Total/NA	Solid	7471A	449713
240-135906-7	TP4_090120_S4	Total/NA	Solid	7471A	449713
240-135906-8	TP4_090120_S5	Total/NA	Solid	7471A	449713
240-135906-9	TP5_090120_S5	Total/NA	Solid	7471A	449713
240-135906-10	TP5_090120_S3	Total/NA	Solid	7471A	449713
240-135906-11	TP5_090120_S5_DUP	Total/NA	Solid	7471A	449713
240-135927-1	TP6_090220_S7	Total/NA	Solid	7471A	449915
240-135927-2	TP6_090220_S4	Total/NA	Solid	7471A	449915
240-135927-3	TP7_090220_S1	Total/NA	Solid	7471A	449915
240-135927-4	TP8_090220_S1	Total/NA	Solid	7471A	449915
MB 240-449713/1-A	Method Blank	Total/NA	Solid	7471A	449713
MB 240-449915/1-A	Method Blank	Total/NA	Solid	7471A	449915
LCS 240-449713/2-A	Lab Control Sample	Total/NA	Solid	7471A	449713
LCS 240-449915/2-A	Lab Control Sample	Total/NA	Solid	7471A	449915
240-135927-4 MS	TP8_090220_S1	Total/NA	Solid	7471A	449915
240-135927-4 MSD	TP8_090220_S1	Total/NA	Solid	7471A	449915

Analysis Batch: 450306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-135906-8	TP4_090120_S5	Total/NA	Solid	6010B	449705

General Chemistry

Analysis Batch: 449974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-135906-1	TP1_090120_S5	Total/NA	Solid	Moisture	
240-135906-2	TP1_090120_S3	Total/NA	Solid	Moisture	
240-135906-3	TP2_090120_S4	Total/NA	Solid	Moisture	
240-135906-4	TP2_090120_S2	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 449974 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-135906-5	TP3_090120_S1	Total/NA	Solid	Moisture	
240-135906-6	TP3_090120_S5	Total/NA	Solid	Moisture	
240-135906-7	TP4_090120_S4	Total/NA	Solid	Moisture	
240-135906-8	TP4_090120_S5	Total/NA	Solid	Moisture	
240-135906-9	TP5_090120_S5	Total/NA	Solid	Moisture	
240-135906-10	TP5_090120_S3	Total/NA	Solid	Moisture	
240-135906-11	TP5_090120_S5_DUP	Total/NA	Solid	Moisture	
240-135927-1	TP6_090220_S7	Total/NA	Solid	Moisture	
240-135927-2	TP6_090220_S4	Total/NA	Solid	Moisture	
240-135927-3	TP7_090220_S1	Total/NA	Solid	Moisture	
240-135927-4	TP8_090220_S1	Total/NA	Solid	Moisture	
240-135906-11 DU	TP5_090120_S5_DUP	Total/NA	Solid	Moisture	
240-135927-4 DU	TP8_090220_S1	Total/NA	Solid	Moisture	

Lab Chronicle

Client: EnviroScience Inc
Project/Site: Clark Ave Extension

Job ID: 240-135906-1

Client Sample ID: TP1_090120_S5
Date Collected: 09/01/20 10:15
Date Received: 09/01/20 14:00

Lab Sample ID: 240-135906-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	449974	09/03/20 16:00	AJ	TAL CAN

Client Sample ID: TP1_090120_S5
Date Collected: 09/01/20 10:15
Date Received: 09/01/20 14:00

Lab Sample ID: 240-135906-1
Matrix: Solid
Percent Solids: 87.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030A			450128	09/04/20 12:39	SAM	TAL CAN
Total/NA	Analysis	8260B		1	450099	09/04/20 18:15	SAM	TAL CAN
Total/NA	Prep	3540C			449846	09/03/20 08:59	EMB	TAL CAN
Total/NA	Analysis	8270C		1	450327	09/08/20 14:55	JMG	TAL CAN
Total/NA	Prep	3540C			449817	09/03/20 08:01	EMB	TAL CAN
Total/NA	Analysis	8082		1	450262	09/08/20 11:34	LSH	TAL CAN
Total/NA	Prep	3050B			449705	09/02/20 14:00	DEE	TAL CAN
Total/NA	Analysis	6010B		1	450107	09/03/20 22:57	WKD	TAL CAN
Total/NA	Prep	7471A			449713	09/02/20 14:00	DEE	TAL CAN
Total/NA	Analysis	7471A		1	450124	09/04/20 10:26	SLD	TAL CAN

Client Sample ID: TP1_090120_S3
Date Collected: 09/01/20 10:20
Date Received: 09/01/20 14:00

Lab Sample ID: 240-135906-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	449974	09/03/20 16:00	AJ	TAL CAN

Client Sample ID: TP1_090120_S3
Date Collected: 09/01/20 10:20
Date Received: 09/01/20 14:00

Lab Sample ID: 240-135906-2
Matrix: Solid
Percent Solids: 87.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030A			450383	09/08/20 11:17	SAM	TAL CAN
Total/NA	Analysis	8260B		1	450350	09/08/20 14:52	SAM	TAL CAN
Total/NA	Prep	3540C			449846	09/03/20 08:59	EMB	TAL CAN
Total/NA	Analysis	8270C		2.5	450327	09/08/20 17:20	JMG	TAL CAN
Total/NA	Prep	3540C			450914	09/11/20 08:04	EMB	TAL CAN
Total/NA	Analysis	8082		1	451277	09/15/20 08:51	CSC	TAL CAN
Total/NA	Prep	3050B			449705	09/02/20 14:00	DEE	TAL CAN
Total/NA	Analysis	6010B		1	450107	09/03/20 23:02	WKD	TAL CAN
Total/NA	Prep	7471A			449713	09/02/20 14:00	DEE	TAL CAN
Total/NA	Analysis	7471A		1	450124	09/04/20 10:28	SLD	TAL CAN

Lab Chronicle

Client: EnviroScience Inc
Project/Site: Clark Ave Extension

Job ID: 240-135906-1

Client Sample ID: TP2_090120_S4
Lab Sample ID: 240-135906-3
Date Collected: 09/01/20 11:00
Matrix: Solid
Date Received: 09/01/20 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	449974	09/03/20 16:00	AJ	TAL CAN

Client Sample ID: TP2_090120_S4
Lab Sample ID: 240-135906-3
Date Collected: 09/01/20 11:00
Matrix: Solid
Date Received: 09/01/20 14:00
Percent Solids: 90.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030A			450128	09/04/20 12:39	SAM	TAL CAN
Total/NA	Analysis	8260B		1	450099	09/04/20 19:00	SAM	TAL CAN
Total/NA	Prep	3540C			449846	09/03/20 08:59	EMB	TAL CAN
Total/NA	Analysis	8270C		2	450528	09/09/20 17:58	JMG	TAL CAN
Total/NA	Prep	3540C			449817	09/03/20 08:01	EMB	TAL CAN
Total/NA	Analysis	8082		1	450499	09/09/20 14:11	LSH	TAL CAN
Total/NA	Prep	3050B			449705	09/02/20 14:00	DEE	TAL CAN
Total/NA	Analysis	6010B		1	450107	09/03/20 23:06	WKD	TAL CAN
Total/NA	Prep	7471A			449713	09/02/20 14:00	DEE	TAL CAN
Total/NA	Analysis	7471A		1	450124	09/04/20 10:30	SLD	TAL CAN

Client Sample ID: TP2_090120_S2
Lab Sample ID: 240-135906-4
Date Collected: 09/01/20 11:05
Matrix: Solid
Date Received: 09/01/20 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	449974	09/03/20 16:00	AJ	TAL CAN

Client Sample ID: TP2_090120_S2
Lab Sample ID: 240-135906-4
Date Collected: 09/01/20 11:05
Matrix: Solid
Date Received: 09/01/20 14:00
Percent Solids: 90.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030A			450128	09/04/20 12:39	SAM	TAL CAN
Total/NA	Analysis	8260B		1	450099	09/04/20 19:22	SAM	TAL CAN
Total/NA	Prep	3540C			449846	09/03/20 08:59	EMB	TAL CAN
Total/NA	Analysis	8270C		5	450919	09/11/20 18:58	JMG	TAL CAN
Total/NA	Prep	3540C			449817	09/03/20 08:01	EMB	TAL CAN
Total/NA	Analysis	8082		1	450499	09/09/20 14:29	LSH	TAL CAN
Total/NA	Prep	3050B			449705	09/02/20 14:00	DEE	TAL CAN
Total/NA	Analysis	6010B		1	450107	09/03/20 23:10	WKD	TAL CAN
Total/NA	Prep	7471A			449713	09/02/20 14:00	DEE	TAL CAN
Total/NA	Analysis	7471A		1	450124	09/04/20 10:32	SLD	TAL CAN

Lab Chronicle

Client: EnviroScience Inc
Project/Site: Clark Ave Extension

Job ID: 240-135906-1

Client Sample ID: TP3_090120_S1 — Lab Sample ID: 240-135906-5

Date Collected: 09/01/20 11:40
Date Received: 09/01/20 14:00
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	449974	09/03/20 16:00	AJ	TAL CAN

Client Sample ID: TP3_090120_S1 — Lab Sample ID: 240-135906-5

Date Collected: 09/01/20 11:40
Date Received: 09/01/20 14:00
Matrix: Solid
Percent Solids: 82.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030A			450128	09/04/20 12:39	SAM	TAL CAN
Total/NA	Analysis	8260B		1	450099	09/04/20 19:44	SAM	TAL CAN
Total/NA	Prep	3540C			450940	09/11/20 09:03	EMB	TAL CAN
Total/NA	Analysis	8270C		1	451314	09/15/20 10:28	JMG	TAL CAN
Total/NA	Prep	3540C			449817	09/03/20 08:01	EMB	TAL CAN
Total/NA	Analysis	8082		1	450262	09/08/20 13:26	LSH	TAL CAN
Total/NA	Prep	3050B			449705	09/02/20 14:00	DEE	TAL CAN
Total/NA	Analysis	6010B		1	450107	09/03/20 23:15	WKD	TAL CAN
Total/NA	Prep	7471A			449713	09/02/20 14:00	DEE	TAL CAN
Total/NA	Analysis	7471A		1	450124	09/04/20 10:34	SLD	TAL CAN

Client Sample ID: TP3_090120_S5 — Lab Sample ID: 240-135906-6

Date Collected: 09/01/20 11:35
Date Received: 09/01/20 14:00
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	449974	09/03/20 16:00	AJ	TAL CAN

Client Sample ID: TP3_090120_S5 — Lab Sample ID: 240-135906-6

Date Collected: 09/01/20 11:35
Date Received: 09/01/20 14:00
Matrix: Solid
Percent Solids: 84.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030A			450128	09/04/20 12:39	SAM	TAL CAN
Total/NA	Analysis	8260B		1	450099	09/04/20 20:06	SAM	TAL CAN
Total/NA	Prep	3540C			450562	09/09/20 09:23	EMB	TAL CAN
Total/NA	Analysis	8270C		4	451322	09/15/20 13:11	JMG	TAL CAN
Total/NA	Prep	3540C			449817	09/03/20 08:01	EMB	TAL CAN
Total/NA	Analysis	8082		1	450262	09/08/20 13:42	LSH	TAL CAN
Total/NA	Prep	3050B			449705	09/02/20 14:00	DEE	TAL CAN
Total/NA	Analysis	6010B		1	450107	09/03/20 23:19	WKD	TAL CAN
Total/NA	Prep	7471A			449713	09/02/20 14:00	DEE	TAL CAN
Total/NA	Analysis	7471A		1	450124	09/04/20 10:36	SLD	TAL CAN

Lab Chronicle

Client: EnviroScience Inc
Project/Site: Clark Ave Extension

Job ID: 240-135906-1

Client Sample ID: TP4_090120_S4 — Lab Sample ID: 240-135906-7

Date Collected: 09/01/20 12:20
Date Received: 09/01/20 14:00
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	449974	09/03/20 16:00	AJ	TAL CAN

Client Sample ID: TP4_090120_S4 — Lab Sample ID: 240-135906-7

Date Collected: 09/01/20 12:20
Date Received: 09/01/20 14:00
Matrix: Solid
Percent Solids: 80.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030A			450383	09/08/20 11:17	SAM	TAL CAN
Total/NA	Analysis	8260B		1	450350	09/08/20 15:43	SAM	TAL CAN
Total/NA	Prep	3540C			450562	09/09/20 09:23	EMB	TAL CAN
Total/NA	Analysis	8270C		10	451322	09/15/20 12:48	JMG	TAL CAN
Total/NA	Prep	3540C			449817	09/03/20 08:01	EMB	TAL CAN
Total/NA	Analysis	8082		1	450262	09/08/20 13:58	LSH	TAL CAN
Total/NA	Prep	3050B			449705	09/02/20 14:00	DEE	TAL CAN
Total/NA	Analysis	6010B		1	450107	09/03/20 23:23	WKD	TAL CAN
Total/NA	Prep	7471A			449713	09/02/20 14:00	DEE	TAL CAN
Total/NA	Analysis	7471A		1	450124	09/04/20 10:39	SLD	TAL CAN

Client Sample ID: TP4_090120_S5 — Lab Sample ID: 240-135906-8

Date Collected: 09/01/20 12:15
Date Received: 09/01/20 14:00
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	449974	09/03/20 16:00	AJ	TAL CAN

Client Sample ID: TP4_090120_S5 — Lab Sample ID: 240-135906-8

Date Collected: 09/01/20 12:15
Date Received: 09/01/20 14:00
Matrix: Solid
Percent Solids: 85.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030A			450128	09/04/20 12:39	SAM	TAL CAN
Total/NA	Analysis	8260B		1	450099	09/04/20 22:20	SAM	TAL CAN
Total/NA	Prep	3540C			450562	09/09/20 09:23	EMB	TAL CAN
Total/NA	Analysis	8270C		2.5	451322	09/15/20 13:34	JMG	TAL CAN
Total/NA	Prep	3540C			449817	09/03/20 08:01	EMB	TAL CAN
Total/NA	Analysis	8082		1	450262	09/08/20 14:14	LSH	TAL CAN
Total/NA	Prep	3050B			449705	09/02/20 14:00	DEE	TAL CAN
Total/NA	Analysis	6010B		1	450107	09/03/20 23:28	WKD	TAL CAN
Total/NA	Prep	3050B			449705	09/02/20 14:00	DEE	TAL CAN
Total/NA	Analysis	6010B		5	450306	09/04/20 12:23	WKD	TAL CAN
Total/NA	Prep	7471A			449713	09/02/20 14:00	DEE	TAL CAN
Total/NA	Analysis	7471A		1	450124	09/04/20 10:45	SLD	TAL CAN

Lab Chronicle

Client: EnviroScience Inc
Project/Site: Clark Ave Extension

Job ID: 240-135906-1

Client Sample ID: TP5_090120_S5
Lab Sample ID: 240-135906-9
Date Collected: 09/01/20 13:05
Matrix: Solid
Date Received: 09/01/20 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	449974	09/03/20 16:00	AJ	TAL CAN

Client Sample ID: TP5_090120_S5
Lab Sample ID: 240-135906-9
Date Collected: 09/01/20 13:05
Matrix: Solid
Date Received: 09/01/20 14:00
Percent Solids: 84.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030A			450128	09/04/20 12:39	SAM	TAL CAN
Total/NA	Analysis	8260B		1	450099	09/04/20 22:42	SAM	TAL CAN
Total/NA	Prep	3540C			450562	09/09/20 09:23	EMB	TAL CAN
Total/NA	Analysis	8270C		1	451322	09/15/20 14:19	JMG	TAL CAN
Total/NA	Prep	3540C			449817	09/03/20 08:01	EMB	TAL CAN
Total/NA	Analysis	8082		1	450262	09/08/20 14:30	LSH	TAL CAN
Total/NA	Prep	3050B			449705	09/02/20 14:00	DEE	TAL CAN
Total/NA	Analysis	6010B		1	450107	09/03/20 23:32	WKD	TAL CAN
Total/NA	Prep	7471A			449713	09/02/20 14:00	DEE	TAL CAN
Total/NA	Analysis	7471A		1	450124	09/04/20 10:47	SLD	TAL CAN

Client Sample ID: TP5_090120_S3
Lab Sample ID: 240-135906-10
Date Collected: 09/01/20 13:10
Matrix: Solid
Date Received: 09/01/20 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	449974	09/03/20 16:00	AJ	TAL CAN

Client Sample ID: TP5_090120_S3
Lab Sample ID: 240-135906-10
Date Collected: 09/01/20 13:10
Matrix: Solid
Date Received: 09/01/20 14:00
Percent Solids: 88.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030A			450383	09/08/20 11:17	SAM	TAL CAN
Total/NA	Analysis	8260B		1	450350	09/08/20 18:18	SAM	TAL CAN
Total/NA	Prep	3540C			450562	09/09/20 09:23	EMB	TAL CAN
Total/NA	Analysis	8270C		4	451322	09/15/20 14:42	JMG	TAL CAN
Total/NA	Prep	3540C			449817	09/03/20 08:01	EMB	TAL CAN
Total/NA	Analysis	8082		1	450499	09/09/20 14:48	LSH	TAL CAN
Total/NA	Prep	3050B			449705	09/02/20 14:00	DEE	TAL CAN
Total/NA	Analysis	6010B		1	450107	09/03/20 23:36	WKD	TAL CAN
Total/NA	Prep	7471A			449713	09/02/20 14:00	DEE	TAL CAN
Total/NA	Analysis	7471A		1	450124	09/04/20 10:49	SLD	TAL CAN

Lab Chronicle

Client: EnviroScience Inc
Project/Site: Clark Ave Extension

Job ID: 240-135906-1

Client Sample ID: TP5_090120_S5_DUP

Lab Sample ID: 240-135906-11
Date Collected: 09/01/20 13:05
Matrix: Solid
Date Received: 09/01/20 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	449974	09/03/20 16:00	AJ	TAL CAN

Client Sample ID: TP5_090120_S5_DUP

Lab Sample ID: 240-135906-11
Date Collected: 09/01/20 13:05
Matrix: Solid
Date Received: 09/01/20 14:00
Percent Solids: 76.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030A			450230	09/06/20 02:30	TJL2	TAL CAN
Total/NA	Analysis	8260B		1	450228	09/06/20 07:12	TJL2	TAL CAN
Total/NA	Prep	3540C			450562	09/09/20 09:23	EMB	TAL CAN
Total/NA	Analysis	8270C		1	451145	09/14/20 17:43	JMG	TAL CAN
Total/NA	Prep	3540C			449817	09/03/20 08:01	EMB	TAL CAN
Total/NA	Analysis	8082		1	450262	09/08/20 15:01	LSH	TAL CAN
Total/NA	Prep	3050B			449705	09/02/20 14:00	DEE	TAL CAN
Total/NA	Analysis	6010B		1	450107	09/03/20 23:49	WKD	TAL CAN
Total/NA	Prep	7471A			449713	09/02/20 14:00	DEE	TAL CAN
Total/NA	Analysis	7471A		1	450124	09/04/20 10:51	SLD	TAL CAN

Client Sample ID: TP6_090220_S7

Lab Sample ID: 240-135927-1
Date Collected: 09/02/20 09:30
Matrix: Solid
Date Received: 09/02/20 11:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	449974	09/03/20 16:00	AJ	TAL CAN

Client Sample ID: TP6_090220_S7

Lab Sample ID: 240-135927-1
Date Collected: 09/02/20 09:30
Matrix: Solid
Date Received: 09/02/20 11:30
Percent Solids: 77.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030A			450029	09/04/20 07:34	TJL2	TAL CAN
Total/NA	Analysis	8260B		1	450017	09/04/20 14:39	SAM	TAL CAN
Total/NA	Prep	3540C			450055	09/04/20 08:21	EMB	TAL CAN
Total/NA	Analysis	8270C		1	450622	09/10/20 01:48	MRU	TAL CAN
Total/NA	Prep	3540C			450065	09/04/20 09:09	EMB	TAL CAN
Total/NA	Analysis	8082A		1	450484	09/09/20 12:43	LSH	TAL CAN
Total/NA	Prep	3050B			449911	09/03/20 14:00	DEE	TAL CAN
Total/NA	Analysis	6010B		1	450107	09/04/20 09:38	WKD	TAL CAN
Total/NA	Prep	7471A			449915	09/03/20 14:00	DEE	TAL CAN
Total/NA	Analysis	7471A		1	450124	09/04/20 11:04	SLD	TAL CAN

Lab Chronicle

Client: EnviroScience Inc
Project/Site: Clark Ave Extension

Job ID: 240-135906-1

Client Sample ID: TP6_090220_S4
Date Collected: 09/02/20 09:35
Date Received: 09/02/20 11:30

Lab Sample ID: 240-135927-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	449974	09/03/20 16:00	AJ	TAL CAN

Client Sample ID: TP6_090220_S4
Date Collected: 09/02/20 09:35
Date Received: 09/02/20 11:30

Lab Sample ID: 240-135927-2
Matrix: Solid
Percent Solids: 82.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030A			450029	09/04/20 07:34	TJL2	TAL CAN
Total/NA	Analysis	8260B		1	450017	09/04/20 15:04	SAM	TAL CAN
Total/NA	Prep	3540C			450055	09/04/20 08:21	EMB	TAL CAN
Total/NA	Analysis	8270C		1	450622	09/10/20 01:26	MRU	TAL CAN
Total/NA	Prep	3540C			450065	09/04/20 09:09	EMB	TAL CAN
Total/NA	Analysis	8082A		1	450484	09/09/20 12:57	LSH	TAL CAN
Total/NA	Prep	3050B			449911	09/03/20 14:00	DEE	TAL CAN
Total/NA	Analysis	6010B		1	450107	09/04/20 09:42	WKD	TAL CAN
Total/NA	Prep	7471A			449915	09/03/20 14:00	DEE	TAL CAN
Total/NA	Analysis	7471A		1	450124	09/04/20 11:10	SLD	TAL CAN

Client Sample ID: TP7_090220_S1
Date Collected: 09/02/20 10:20
Date Received: 09/02/20 11:30

Lab Sample ID: 240-135927-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	449974	09/03/20 16:00	AJ	TAL CAN

Client Sample ID: TP7_090220_S1
Date Collected: 09/02/20 10:20
Date Received: 09/02/20 11:30

Lab Sample ID: 240-135927-3
Matrix: Solid
Percent Solids: 88.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030A			450029	09/04/20 07:34	TJL2	TAL CAN
Total/NA	Analysis	8260B		1	450017	09/04/20 15:30	SAM	TAL CAN
Total/NA	Prep	3540C			450055	09/04/20 08:21	EMB	TAL CAN
Total/NA	Analysis	8270C		1	450622	09/10/20 02:10	MRU	TAL CAN
Total/NA	Prep	3540C			450065	09/04/20 09:09	EMB	TAL CAN
Total/NA	Analysis	8082A		1	450484	09/09/20 13:12	LSH	TAL CAN
Total/NA	Prep	3050B			449911	09/03/20 14:00	DEE	TAL CAN
Total/NA	Analysis	6010B		1	450107	09/04/20 09:46	WKD	TAL CAN
Total/NA	Prep	7471A			449915	09/03/20 14:00	DEE	TAL CAN
Total/NA	Analysis	7471A		1	450124	09/04/20 11:12	SLD	TAL CAN

Lab Chronicle

Client: EnviroScience Inc
Project/Site: Clark Ave Extension

Job ID: 240-135906-1

Client Sample ID: TP8_090220_S1

Lab Sample ID: 240-135927-4

Date Collected: 09/02/20 10:30
Matrix: Solid
Date Received: 09/02/20 11:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	449974	09/03/20 16:00	AJ	TAL CAN

Client Sample ID: TP8_090220_S1

Lab Sample ID: 240-135927-4

Date Collected: 09/02/20 10:30
Matrix: Solid
Date Received: 09/02/20 11:30
Percent Solids: 81.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030A			450029	09/04/20 07:34	TJL2	TAL CAN
Total/NA	Analysis	8260B		1	450017	09/04/20 15:56	SAM	TAL CAN
Total/NA	Prep	3540C			450055	09/04/20 08:21	EMB	TAL CAN
Total/NA	Analysis	8270C		1	450622	09/10/20 02:31	MRU	TAL CAN
Total/NA	Prep	3540C			450065	09/04/20 09:09	EMB	TAL CAN
Total/NA	Analysis	8082A		1	450484	09/09/20 11:44	LSH	TAL CAN
Total/NA	Prep	3050B			449911	09/03/20 14:00	DEE	TAL CAN
Total/NA	Analysis	6010B		1	450107	09/04/20 09:21	WKD	TAL CAN
Total/NA	Prep	7471A			449915	09/03/20 14:00	DEE	TAL CAN
Total/NA	Analysis	7471A		1	450124	09/04/20 10:57	SLD	TAL CAN

Laboratory References:

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Accreditation/Certification Summary

Client: EnviroScience Inc
Project/Site: Clark Ave Extension

Job ID: 240-135906-1

Laboratory: Eurofins TestAmerica, Canton

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-23-21
Connecticut	State	PH-0590	12-31-21
Florida	NELAP	E87225	06-30-21
Georgia	State	4062	02-23-21
Illinois	NELAP	004498	07-31-20 *
Iowa	State	421	06-01-21
Kansas	NELAP	E-10336	04-30-21
Kentucky (UST)	State	112225	02-23-21
Kentucky (WW)	State	KY98016	12-31-20
Minnesota	NELAP	OH00048	12-31-20
Minnesota (Petrofund)	State	3506	08-01-21
New Jersey	NELAP	OH001	06-30-21
New York	NELAP	10975	03-31-21
Ohio VAP	State	CL0024	06-05-21
Oregon	NELAP	4062	02-24-21
Pennsylvania	NELAP	68-00340	08-31-21
Texas	NELAP	T104704517-18-10	08-31-21
USDA	US Federal Programs	P330-18-00281	09-17-21
Virginia	NELAP	010101	09-14-21
Virginia	NELAP	010101	09-14-20
Washington	State	C971	01-12-21
West Virginia DEP	State	210	12-31-20

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins TestAmerica, Canton 45154
4101 Shuffel Street NW
North Canton, OH 44720
Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Kyle Lawrence	Lab PM: Howell, Leslie	Carrier Tracking No(s):	COC No: 240-74644-30036.2
Client Contact: Kyle Lawrence	Phone:	E-Mail: Leslie.Howell@Eurofinset.com		Page: Page ~~2 of 2~~ 1 of 1
Company: EnviroScience Inc				Job #:
Address: 5070 Stow Rd.	Due Date Requested:			
City: Stow	TAT Requested (days): STANDARD			
State, Zip: OH, 44224				
Phone: 330-808-2386(Tel)	PO #: Purchase Order Requested			
Email: klawrence@enviroscienceinc.com	WO #:			
Project Name: City of Canton	Project #: 24021371			
Site: CLARK AVE EXT	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270C - PAH, PCB, Metals	8260B - VOCs	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	N	N	X	
TP1_090120_S5	9-1-20	1015	G	Solid	X		X	X	2	
TP1_090120_S3		1020		Solid						
TP2_090120_S4		1100		Solid						
TP2_090120_S2		1105		Solid						
TP3_090120_S1		1140		Solid						
TP3_090120-S5		1135		Solid						
TP4_090120_S4		1220		Solid						
TP4_090120_S5		1215		Solid						
TP5_090120_S5		1305		Solid						
TP5_090120_S3		1310		Solid						
TP5_090120_S5-DUP		1305		Solid						

240-135906 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
[signature]	9/1/20 1400		[signature]	9-1-20 1400	EnS
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Eurofins TestAmerica Canton Sample Receipt Form/Narrative **Login # :** 135906
Canton Facility

Client Enviro Science Site Name _____ Cooler unpacked by: Amy Roger
Cooler Received on 9-1-20 Opened on 9-1-20
FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other _____
Receipt After-hours: Drop-off Date/Time _____ Storage Location _____
TestAmerica Cooler # TA Foam Box Client Cooler Box Other _____
Packing material used: Bubble Wrap Foam Plastic Bag None Other _____
COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt ☐ See Multiple Cooler Form
   IR GUN# IR-10 (CF **+0.7** °C) Observed Cooler Temp. ____ °C Corrected Cooler Temp. ____ °C
   IR GUN #IR-11 (CF **+0.9**°C) Observed Cooler Temp. 4.5 °C Corrected Cooler Temp. 5.4 °C
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1 Yes No
   -Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
   -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No
   -Were tamper/custody seals intact and uncompromised? Yes No NA
3. Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
7. Did all bottles arrive in good condition (Unbroken)? Yes No
8. Could all bottle labels be reconciled with the COC? Yes No
9. Were correct bottle(s) used for the test(s) indicated? Yes No
10. Sufficient quantity received to perform indicated analyses? Yes No
11. Are these work share samples? Yes No
    If yes, Questions 12-16 have been checked at the originating laboratory.
12. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC911298
13. Were VOAs on the COC? Yes No
14. Were air bubbles >6 mm in any VOA vials? ● ⬅ Larger than this. Yes No NA
15. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #_____ Yes No
16. Was a LL Hg or Me Hg trip blank present? _____ Yes No

Tests that are not checked for pH by Receiving:
VOAs
Oil and Grease
TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

17. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:

18. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

19. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.
Time preserved: _____ Preservative(s) added/Lot number(s): _____

VOA Sample Preservation - Date/Time VOAs Frozen: _____

WI-NC-099

Appendix C

(SAMPLE COPY)
Waste Disposal Agreement for Projects in the City of Canton

Items 1, 3 - 9 are optional and discretionary to the undersigned

THIS WASTE AGREEMENT, made this _____ day of _____ 20___ , by and between _____ (called "Contractor"), and _____ of _____ (called "Land Owner"), concerning a certain construction contract between the Contractor and _____ in the City of Canton, OH for the _____ (project), as follows:

1. MANNER OF WASTING: Land Owner grants to Contractor the exclusive right to place dirt, earth, rock, topsoil, subsurface, unsuitable and/or other excess material (called "waste material") upon the area described in the following paragraph without requirement, limit, or restriction as to depth, amount, manner, or time.
2. WASTE AREA: The property upon which Contractor is permitted to place material is commonly known as _____ (address).
3. TITLE TO WASTE AREA: The Land Owner warrants that it has title to and the right to contract for placement of waste material in said area and agrees to defend and indemnify Contractor against any claim, suit, or damage arising out of such title or right to contract.
4. ACCESS AND USE: Land Owner hereby grants Contractor the right of ingress and egress to the waste area in locations to be selected by Contractor for all purposes necessary to the complete fulfillment of this agreement, and the right of quiet enjoyment in the intended use of such area.
5. PAYMENT: Contractor agrees to pay and Land Owner agrees to accept as full and final compensation for all rights granted and covenants contained herein and all claims of every nature the sum of _____ payable _____ .
6. BASIS OF MEASUREMENTS: It is mutually agreed that measurement of the amount of materials wasted, where required, shall be made on the following basis: _____ and said measurement shall be binding upon the parties hereto for all purposes.
7. DAMAGES: Land Owner hereby waives any and all claims for damage to the waste area and to the area of ingress and egress except as specifically noted herein.
8. RELEASE: Upon receipt of final payment hereunder, and provided all terms of this agreement have been fulfilled, Land Owner hereby releases Contractor from further liability of any kind or nature hereunder.

WITNESSES:

_____

_____

_____

_____

CONTRACTOR:

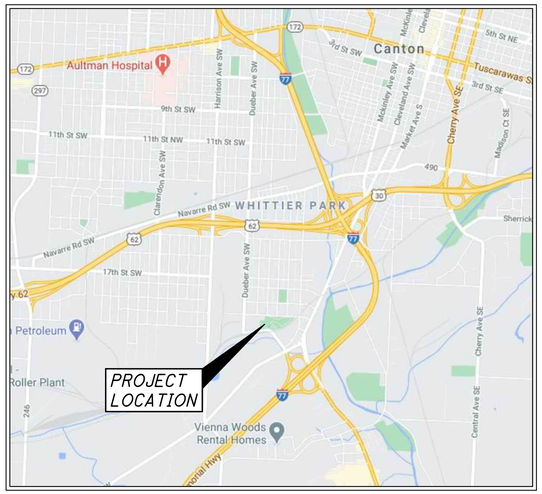
_____
Authorized Signature & Title

LANDOWNER:

_____
Signature

9. ENTIRE AGREEMENT: It is agreed that the terms and conditions of this agreement are fully covered in the foregoing, and that any oral or written statements made by either party, or agents claiming to represent either party, not set forth herein, are not binding on the parties and are not considered as part of this Agreement.
10. DISCLAIMER: The City of Canton is not a party to the here above agreement. The Contractor and Landowner shall indemnify and save harmless the City of Canton from any claim that may arise from the here above agreement. The waste material is the property of the Contractor, not the City of Canton.

Appendix C



LOCATION MAP

LATITUDE: 41°22'46"N LONGITUDE: 82°03'32"W

SCALE IN MILES

0 1/2 1 1 1/2 2

N

TIMKEN STEEL DRIVE SW IMPROVEMENT PLANS

CITY OF CANTON

STARK COUNTY, OHIO

PROJECT DESCRIPTION

THE PROJECT CONSISTS OF A NEW 460' DEDICATED PUBLIC ROADWAY EXTENSION FROM THE INTERSECTION OF CLARK AVENUE SW AND 20TH STREET SW TO TIMKENSTEEL DRIVE SW.

WORK INCLUDES NEW ASPHALT PAVEMENT WITH CONCRETE CURB AND GUTTER, STORM SEWERS, SIGNING AND PAVEMENT MARKINGS, AND MAINTENANCE OF TRAFFIC.

INDEX OF SHEETS:

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA:	0.75 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	0.15 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA:	0.90 ACRES

2019 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE CITY OF CANTON AND THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS SHALL GOVERN THIS IMPROVEMENT.

BENCHMARKS

1. SOUTHWEST FLANGE NUT ON FIRE HYDRANT AT NORTHWEST CORNER OF CLARK AVE. AND 20th ST.

STA. 7+87.26, 17.53' LT.
N=406533.8410
E=2306622.4650
ELEV.=1028.99

2. EAST BOLT ON RAILROAD SIGNAL ON NORTH SIDE OF TRACKS.

STA. 2+64.21, 36.88' LT.
N=406026.8420
E=2306737.2750
ELEV.=1028.83

DESIGN DESIGNATION

CURRENT ADT (N/A)	N/A
DESIGN YEAR ADT (2031)	N/A
DESIGN HOURLY VOLUME (N/A)	N/A
DIRECTIONAL DISTRIBUTION	N/A
TRUCKS (24 HOUR B&C)	N/A
DESIGN SPEED	25 mph
LEGAL SPEED	25 mph

DESIGN FUNCTIONAL CLASSIFICATION: LOCAL ROAD

DESIGN EXCEPTIONS

NONE

STANDARD CONSTRUCTION DRAWINGS				SUPPLEMENTAL SPECIFICATIONS
ODOT		CITY OF CANTON		2019
BP-3.1 01/17/2020		STD 1 CURB INLET CATCH BASIN 12/08/20		800
BP-5.1 01/18/2019		STD 10 PRECAST STORM MANHOLE 02/26/21		832
BP-7.1 07/17/2020		STD 12 MANHOLE COVER 02/26/21		
RM-1.1 01/15/2021		STD 13 MANHOLE ADJUSTMENTS 02/26/21		
		STD 19 UTILITY TRENCH REQS. 02/26/21		
DM-1.1 07/17/2020		STD 31 PAVEMENT REPAIR 03/01/21		
DM-1.2 07/17/2020		STD 32 TYPICAL STREET SECTIONS 03/02/21		
DM-4.3 01/15/2016		STD 33 WHEEL CHAIR RAMP 03/2/21		
DM-4.4 01/15/2016		STD 34 CROSSWALK AND PAVEMENT 03/2/21		SPECIAL PROVISIONS
		STD 61-65 NOSTALGIC POLE 03/2/21		
TC-41.30 10/18/2013				
TC-41.40 01/19/2018				
TC-42.20 10/18/2013				
TC-52.10 10/18/2013				
TC-71.10 01/19/2018				

ROADWAY ENGINEERS SEAL:

STATE OF OHIO
BRUCE T. BITTNER
E-64534
REGISTERED
PROFESSIONAL ENGINEER

SIGNED: Bruce T. Bittner
DATE: 10/7/21

ISSUED FOR
FINAL APPROVAL
OCTOBER 7, 2021
R.E. Warner & Assoc. Inc.

APPROVED Dan Moeglin
DATE 10/7/2021 DAN MOEGLIN, P.E.
CITY ENGINEER

A121700703-00A

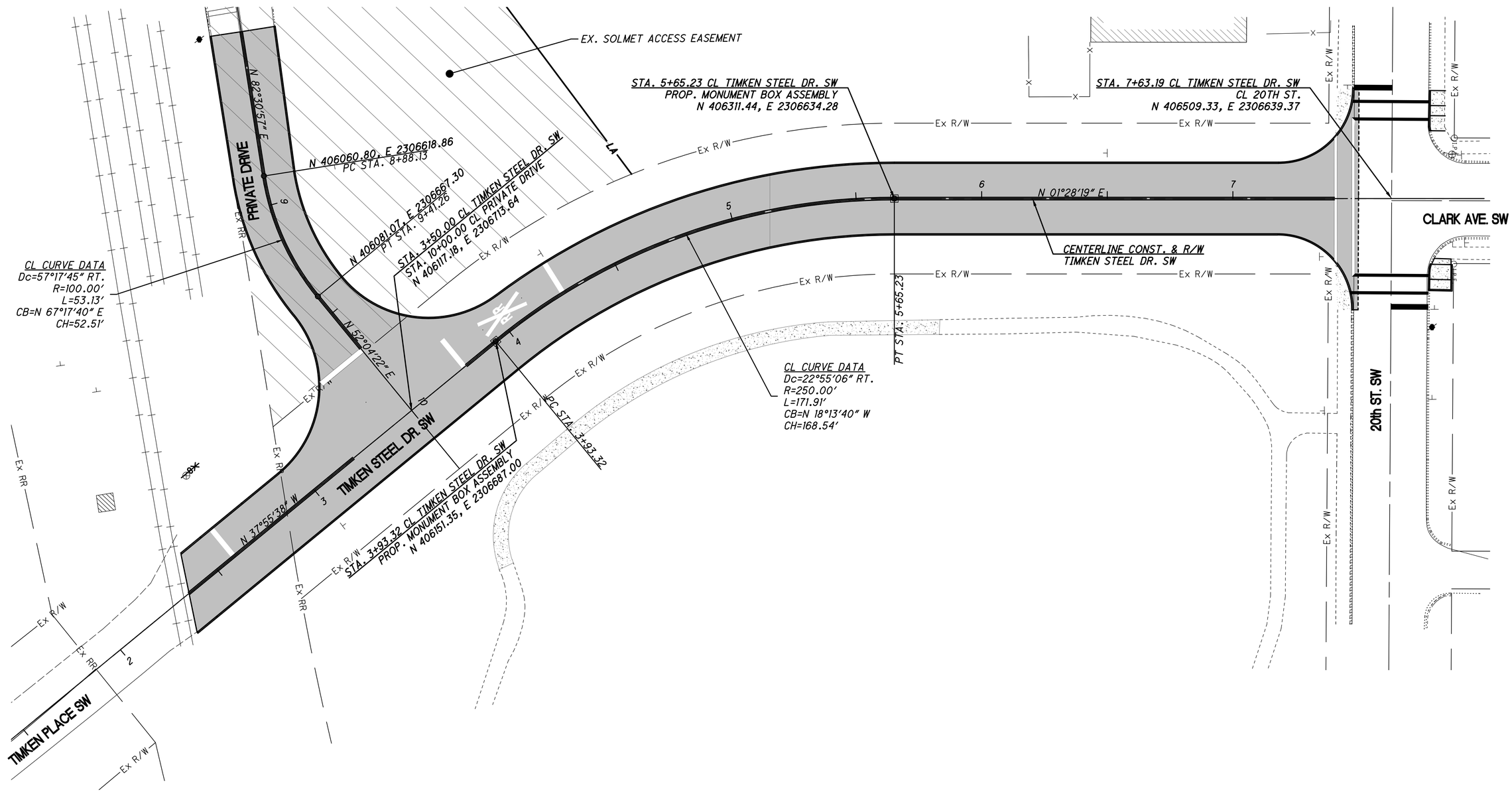
OHIO Utilities Protection SERVICE
Call Before You Dig
CALL 8-1-1 or 1-800-362-2764
CALL TWO WORKING DAYS BEFORE YOU DIG
(NON MEMBERS MUST BE CALLED DIRECTLY)
OIL & GAS PRODUCERS PROTECTIVE SERVICE CALL: 1-800-925-0988
CALL TWO WORKING DAYS BEFORE YOU DIG

PLAN PREPARED BY:

R.E. WARNER
ENGINEERS | ARCHITECTS | SURVEYORS
25777 DETROIT ROAD, SUITE 200
WESTLAKE, OHIO 44145
TELEPHONE (440) 835-9400

JOB NUMBER 07420

FEDERAL PROJECT NO. XXXX(XX)
PID NO. XXXXX
CONSTRUCTION PROJECT NO. N/A
RAILROAD INVOLVEMENT N/A
TIMKEN STEEL DR. SW
CANTON, OHIO



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HORIZONTAL SCALE IN FEET
0 10 20 40

CALCULATED MJC
CHECKED BTB

SCHEMATIC PLAN

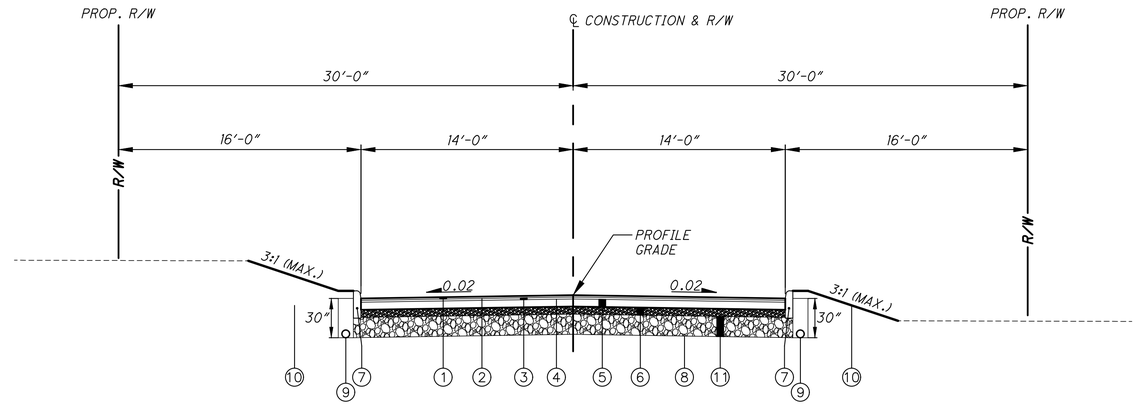
TIMKEN STEEL DR. SW
CANTON, OH

LEGEND

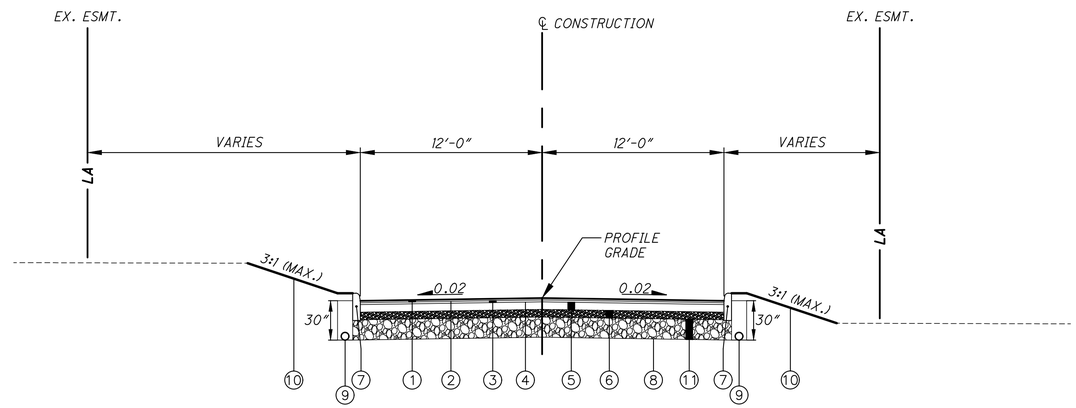
1. ITEM 448 - 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE I, PG70-22M
2. ITEM 407 - TACK COAT FOR INTERMEDIATE COURSE (0.05 GAL/SY)
3. ITEM 448 - 1 1/2" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG64-22
4. ITEM 407 - TACK COAT (0.075 GAL/SY)
5. ITEM 301 - 6" ASPHALT CONCRETE BASE, PG64-22
6. ITEM 304 - 6" AGGREGATE BASE
7. ITEM 609 - 6" CURB, TYPE 6
8. ITEM 204 - SUBGRADE COMPACTION AND PROOF ROLLING
9. ITEM 605 - 6" SHALLOW PIPE UNDERDRAINS WITH FABRIC WRAP, AS PER PLAN
10. ITEM 659 - SEEDING AND MULCHING, AS PER PLAN
11. ITEM 206 - CEMENT STABILIZED SUBGRADE, 16 INCHES DEEP (MAX.) 6% OR AS REQUIRED BY ODOT CMS 2019

NOTES:

1. THE EXISTING PAVEMENT EDGES SHALL BE SAW CUT TO EXPOSE FULL DEPTH PAVEMENT AND TO LOCATE A SOUND PAVEMENT EDGE PER ODOT CMS 203.04(E). FOR ESTIMATING PURPOSES, CALCULATIONS INCLUDE AN AVERAGE OF TWO (2) FEET OF EXISTING PAVEMENT BEING REPLACED. APPLY JOINT SEALER TO ALL ASPHALT CONCRETE CONSTRUCTION JOINTS UPON COMPLETION OF SURFACE COURSES.
2. NEW CURB TO BE DOWLED INTO COLD JOINTS.
3. SEE INTERSECTION DETAIL FOR ADDITION PAVEMENT GRADING.



TIMKEN STEEL DR. SW
STA. 2+35 TO STA. 7+48 = 513 FT



PRIVATE DRIVE
STA. 8+30 TO STA. 9+86 = 156 FT

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0 2.5 5 10
HORIZONTAL SCALE IN FEET

CALCULATED MJC
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TYPICAL SECTIONS

TIMKEN STEEL DR. SW
CANTON, OH

I. PRECONSTRUCTION INCIDENTALS

(A) PROJECT SPECIFICATIONS/REQUIREMENTS:

ALL WORK REQUIRED TO COMPLETE THIS IMPROVEMENT SHALL BE PERFORMED IN ACCORDANCE WITH SPECIFICATIONS/REQUIREMENTS OF THE CITY OF CANTON AND THE LATEST EDITION OF THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS, EXCEPT AS HEREIN AMENDED. IN THE CASE OF A CONFLICT BETWEEN THE CITY OF CANTON AND THE OHIO DEPARTMENT OF TRANSPORTATION SPECIFICATIONS/REQUIREMENTS, THE CITY OF CANTON REQUIREMENTS WILL TAKE PRECEDENCE, UNLESS OTHERWISE DIRECTED BY THE CITY ENGINEER.

THE DEVELOPER/CONTRACTOR SHALL COMPLY WITH THE CITY OF CANTON SUPPLEMENTAL SPECIFICATION 01–00 PROJECT DOCUMENTATION AND SUBMITTAL REQUIREMENTS.

(B) ADMINISTRATIVE REQUIREMENTS:

THE DEVELOPER/CONTRACTOR SHALL BE RESPONSIBLE FOR FULLY COMPLYING WITH ALL THE ADMINISTRATIVE DUTIES HEREIN CONTAINED.

THE DEVELOPER/CONTRACTOR SHALL DESIGNATE TO THE CITY AN EMPLOYEE RESPONSIBLE FOR CORRESPONDENCE, NOTIFICATIONS, AND SUBMITTALS PERTINENT TO THE PROJECT.

(C) PRECONSTRUCTION MEETING:

A PRECONSTRUCTION MEETING WITH THE DEVELOPER, CONTRACTOR, REPRESENTATIVES OF ALL UTILITY COMPANIES, THE CITY OF CANTON ENGINEERING DEPARTMENT AND THE CITY OF CANTON WATER DEPARTMENT IS REQUIRED FOR THIS PROJECT PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY.

FOR SUBDIVISION DEVELOPMENTS, THE DEVELOPER SHALL CONTACT THE CITY ENGINEER'S OFFICE TO ARRANGE A MEETING DATE. THE DEVELOPER WILL CONTACT THE ABOVE AGENCIES TO CONFIRM THE MEETING DATE.

FOR CITY GENERAL PROJECTS, THE CITY ENGINEER WILL CONTACT THE CONTRACTOR TO ARRANGE A MEETING DATE. THE CITY ENGINEER WILL CONTACT THE ABOVE AGENCIES TO CONFIRM THE MEETING DATE.

(D) PROJECT SAFETY:

THE CONTRACTOR SHALL MAINTAIN A SAFE WORKING ENVIRONMENT AT THE PROJECT SITE AT ALL TIMES. THE CONTRACTOR SHALL PROPERLY SUPPORT AND/OR MAINTAIN ALL EXCAVATIONS PER APPLICABLE SAFETY REQUIREMENTS AND COMPLY WITH ALL O.S.H.A. REGULATIONS. APPROPRIATE BARRICADES, WARNING LIGHTS, SIGNS, FENCING, ETC. SHALL BE ERECTED AROUND THE CONSTRUCTION AREA DURING ALL NON–WORKING HOURS TO ALERT PERSONS OF THE POTENTIAL DANGER ASSOCIATED WITH THE AREA UNDER CONSTRUCTION AS WELL AS TO PREVENT ACCESS BY UNAUTHORIZED PERSONNEL TO THE CONSTRUCTION SITE/AREA. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THE SAFETY OF THE GENERAL PUBLIC AS WELL AS ALL CONSTRUCTION PERSONNEL. PUBLIC STREETS SHALL BE KEPT CLEAN AND FREE OF DEBRIS (MUD, STONE, ETC.) AT ALL TIMES. THE CONTRACTOR SHALL ALERT ALL LOCAL EMERGENCY AGENCIES (FIRE, POLICE, AMBULANCE, ETC.) OF THE NATURE OF THE PROPOSED PROJECT PRIOR TO BEGINNING AND CONSTRUCTION ACTIVITY. ACCESS FOR EMERGENCY VEHICLES SHALL BE MAINTAINED AT ALL TIMES.

(E) UNDERGROUND UTILITIES:

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN ON THE PLANS WERE OBTAINED BY FIELD OBSERVATIONS, FROM EXISTING RECORDS, AND/OR FROM THE OWNERS OF THE RESPECTIVE UTILITIES. THE INFORMATION AS SHOWN IS BELIEVED TO BE CORRECT; HOWEVER, THE COMPLETENESS AND ACCURACY OF THIS INFORMATION CANNOT BE GUARANTEED. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTACT ALL THE VARIOUS UTILITY COMPANIES (PUBLIC AND PRIVATE) TO VERIFY THE EXISTENCE, LIMITS AND/OR LOCATION OF ANY UTILITIES WHICH MAY BE ALONG THE ROUTE OR WITHIN THE VICINITY OF THIS IMPROVEMENT.

(F) UTILITY NOTIFICATION:

AT LEAST TWO WORKING DAYS PRIOR TO COMMENCING OPERATIONS ON THIS PROJECT, THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER, THE REGISTERED UTILITY PROTECTION AGENCY/SERVICE, AND THE OWNERS OF ANY OTHER UTILITIES (PUBLIC AND/OR PRIVATE) THAT MAY HAVE UTILITY LINES OR FACILITIES WITHIN THE VICINITY OF THIS PROJECT BUT WHO ARE NOT MEMBERS OF THE REGISTERED UTILITY PROTECTION SERVICE. THE OWNERS OF ANY UNDERGROUND UTILITY FACILITY SHALL, WITHIN 48 HOURS AFTER NOTICE IS RECEIVED, EXCLUDING SATURDAYS, SUNDAYS AND OTHER LEGAL HOLIDAYS; STAKE, MARK OR OTHERWISE DESIGNATE THE EXISTENCE AND/OR LOCATION OF THE UNDERGROUND UTILITY FACILITIES IN THE CONSTRUCTION AREA IN SUCH A MANNER AS TO INDICATE THEIR COURSE TOGETHER WITH THE APPROXIMATE DEPTH AT WHICH THEY WERE INSTALLED. THE MARKING AND/OR LOCATING SHALL BE COORDINATED TO STAY APPROXIMATELY TWO WORKING DAYS AHEAD OF THE PLANNED CONSTRUCTION.

OHIO UTILITIES PROTECTION SERVICE: 1-800-362-2764 (CONTACT NON-MEMBERS DIRECTLY).

THE PRIMARY UTILITIES WITHIN THE CITY OF CANTON AREA:

NATURAL GAS DIST./TRANS.
DOMINION EAST OHIO GAS
320 SPRINGSIDE DR.
AKRON, OHIO 44333
330–664–2541
ATTN: MICAH RISACHER
relocation@dominionenergy.com
EMERGENCY NO.
1–800–521–2600

COMMUNICATIONS CABLE
CHARTER (SPECTRUM)
5520 WHIPPLE AVE N.W.
NORTH CANTON, OHIO 44720
330–494–9200
ext. 330–555–3009
ATTN: RON ICKES
216–392–7964(CELL)

SANITARY AND STORM SEWER
CITY ENGINEER'S OFFICE
2436–30TH ST. N.E.
CANTON, OHIO 44705
ATTN: DAN MOEGLIN
330–489–3381

TRAFFIC INTERCONNECT
CITY ENGINEER'S OFFICE
2436–30TH ST. N.E.
CANTON, OHIO 44705
ATTN: NICK LOUKAS
330–489–3381

TELEPHONE
AT&T
50 WEST BOWERY STREET
AKRON, OHIO 44308
ATTN: STEVE HYLTON
330–384–3055
EMERGENCY NO. – 24 HRS
1–800–572–4545 OPTION#4

ELECTRIC
AMERICAN ELECTRIC POWER
301 CLEVELAND AVE. S.W.
P.O. BOX 24400
CANTON, OHIO 44701–4400
330–438–7739
ATTN: MICHAEL ALLMAN
330–312–6981 (CELL)
ATTN: KEITH SCHALMO
330–438–7720
EMERGENCY NO.
1–800–672–2017
cantondistrictppr@aep.com

WATER
CANTON WATER DEPT.
2664 HARRISBURG RD. N.E.
CANTON, OHIO 44708
ATTN: BRENT BURRIER OR
LEWI MILLER
330–489–3310

THE CITY ENGINEER'S OFFICE IS TO BE CONTACTED DIRECTLY FOR SANITARY AND STORM SEWER AND TRAFFIC INTERCONNECT FACILITIES LOCATION: 330–489–3381.
[UTILITY CONTACTS LAST UPDATED 2/12/2020]

(G) PROPOSED PUBLIC UTILITY LOCATION IN PROPOSED SUBDIVISIONS:

THE DEVELOPER/CONTRACTOR AND REPRESENTATIVES OF THE CITY OF CANTON SHALL MEET WITH REPRESENTATIVES OF THE VARIOUS PUBLIC UTILITY COMPANIES (EAST OHIO GAS, AMERICAN ELECTRIC POWER, AMERITECH, WARNER CABLE, ETC.) TO DETERMINE THE APPROPRIATE LOCATION FOR THESE UTILITIES WITHIN THE PROJECT SITE. ONCE AN AGREEMENT HAS BEEN REACHED, IT SHALL BE THE RESPONSIBILITY OF THE UTILITY OWNERS TO INSPECT THE INSTALLATION OF THE VARIOUS PUBLIC UTILITY LINES WITHIN THE ROAD RIGHT–OF–WAY TO ENSURE THAT CONFLICTS ARE AVOIDED AND ADEQUATE CLEARANCE AND OFFSETS WITH OTHER UTILITIES ARE MAINTAINED. UTILITY COMPANIES SHALL SUBMIT PLANS INDICATING THEIR PROPOSED IMPROVEMENTS AND FACILITIES TO THE CITY OF CANTON FOR APPROVAL. THE SITE CONTRACTOR SHALL COORDINATE HIS WORK WITH THE INSTALLATION OF THE OTHER UTILITIES NOT OWNED BY THE CITY.

(H) EXPLORATORY BORINGS:

EXPLORATORY SOIL BORING INFORMATION IS NOT THE RESPONSIBILITY OF THE CITY OF CANTON. IT IS THE DEVELOPER/CONTRACTOR RESPONSIBILITY TO REVIEW ANY AND ALL INFORMATION AVAILABLE. IF DEVELOPER/CONTRACTOR REQUESTS TO DRILL AND OR EXCAVATE WITHIN THE CITY'S R/W, THE DEVELOPER/CONTRACTOR SHALL NOTIFY THE CITY ENGINEER AT LEAST 3 WORKING DAYS PRIOR TO THIS WORK. THE DEVELOPER/CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UTILITY NOTIFICATION, AS SPECIFIED, ALL TRAFFIC CONTROL, PREMIUM BACKFILL, AND COMPACTION AND RESTORATION, AS NECESSARY.

(I) CONTINGENCY QUANTITIES:

WHEN SPECIFIED ON PLANS OR SPECIFICATIONS, CONTINGENCY QUANTITIES ARE TO BE PERFORMED ONLY UNDER DIRECTION OF THE CITY ENGINEER. THE DEVELOPER/CONTRACTOR SHALL NOT ORDER ANY CONTINGENCY MATERIAL OR PERFORM ANY WORK UNTIL DIRECTED BY THE ENGINEER. THE ACTUAL WORK LOCATION AND QUANTITIES FOR SUCH ITEMS SHALL BE DOCUMENTED BY THE DEVELOPER/CONTRACTOR AND THE ENGINEER.

II. CONSTRUCTION INCIDENTALS

(A) PLAN DISCREPANCIES:

ANY DISCREPANCIES FROM THE PLAN INFORMATION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER SO THAT THE APPROPRIATE ADJUSTMENTS IN ALIGNMENT AND/OR GRADE MAY BE MADE PRIOR TO THE START OF CONSTRUCTION OR THE CONTINUATION OF THE SAME.

FAILURE BY THE DEVELOPER/CONTRACTOR TO VERIFY AND/OR DETERMINE EXISTING INFORMATION AS INDICATED WILL RESULT IN THE CONTRACTOR BEING RESPONSIBLE FOR ANY CHANGES NECESSARY TO COMPLETE THE WORK SPECIFIED WITHOUT ADDITIONAL COMPENSATION.

(B) VERIFICATION OF UNDERGROUND UTILITIES:

THE DEVELOPER/CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THE EXISTENCE AS WELL AS THE ACTUAL LOCATION, ALIGNMENT, AND ELEVATIONS OF ALL EXISTING UTILITIES/FACILITIES WITHIN AND/OR ADJACENT TO THE GENERAL LIMITS OF THESE IMPROVEMENTS INCLUDING WATERLINES, SANITARY AND STORM SEWERS, GAS LINES, COMMUNICATION LINES/BANKS, ELECTRIC LINES, ETC. THIS MAY REQUIRE EXPLORATORY EXCAVATIONS TO BE PERFORMED BY THE CONTRACTOR FOR WHICH HE WILL NOT BE REIMBURSED. THE CONTRACTOR SHALL NOT ASSUME THAT EXISTING UTILITIES/CONDUITS WERE INSTALLED AT TYPICAL/STANDARD DEPTHS OR AT UNIFORM SLOPES/GRADES/DEPTHS BETWEEN ACCESS POINTS (CATCH BASINS, MANHOLES, JUNCTION CHAMBERS, ETC.)

WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO INSTALL THE PROPOSED CONDUIT.

(C) PROTECTION OF UTILITIES:

THE DEVELOPER/CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT AND SUPPORT EXISTING UTILITIES ENCOUNTERED DURING THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS AS APPROVED BY THE OWNERS OF THE UTILITY AND THE CITY ENGINEER.

THE DEVELOPER/CONTRACTOR SHALL BE RESPONSIBLE TO CLOSELY COORDINATE THEIR WORK WITH ALL UTILITY COMPANIES; ANY POTENTIAL DELAYS WILL NOT BE THE RESPONSIBILITY OF THE CITY.

THE CONTRACTOR SHOULD EXPECT AT A MINIMUM ONE SANITARY SEWER LATERAL, ONE ROOF DRAIN, ONE WATER SERVICE, AND ONE GAS SERVICE FOR EACH LOT. ANY OF THE ABOVE UTILITIES DAMAGED DUE TO THE CONTRACTOR'S WORK SHALL BE RESTORED TO THE UTILITY OWNER'S SATISFACTION AT THE CONTRACTOR'S EXPENSE, UNLESS OTHERWISE NOTED IN THE PLANS OR SPECIFICATIONS.

(D) MAINTENANCE OF UTILITY SERVICES:

THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN UTILITY SERVICES AT ALL TIMES.

WATER SERVICE MAY BE INTERRUPTED FOR LIMITED PERIODS (4 HOURS MAXIMUM) DURING CONNECTION BETWEEN EXISTING WATER LINES AND RELOCATED/NEW WATER MAINS WHICH CANNOT BE COMPLETED OTHERWISE. NO SHUT DOWN SHALL OCCUR WITHOUT WRITTEN PERMISSION OF THE CITY OF CANTON WATER DEPARTMENT. PROPERTY OWNERS AFFECTED BY APPROVED INTERRUPTED SERVICE SHALL BE NOTIFIED 48 HOURS IN ADVANCE BY THE CONTRACTOR.

STORM SEWER AND SANITARY SEWER SERVICES SHALL BE MAINTAINED WITHOUT INTERRUPTION, UNLESS APPROVED BY THE CITY ENGINEER.

IN THE EVENT THAT CONSTRUCTION DISRUPTS THE FLOW OF A SANITARY SEWER, THE CONTRACTOR SHALL IMMEDIATELY RECTIFY THE DISRUPTED SEWER BY EITHER TEMPORARILY FLUMING WITH MATERIALS ACCEPTABLE TO THE ENGINEER OR BYPASSING WITH PUMPS. COST OF MAINTAINING AND REPAIR OF SANITARY SEWERS DISTURBED BY CONSTRUCTION SHALL BE AT THE CONTRACTOR'S EXPENSE, UNLESS OTHERWISE NOTED IN THE PLANS OR SPECIFICATIONS.

(E) CONSTRUCTION NOISE:

CONSTRUCTION NOISE ASSOCIATED WITH ANY IMPROVEMENT PROJECT SHALL BE LIMITED TO LEVELS COMMENSURABLE WITH ADJOINING LAND AND THEIR ASSOCIATED USAGE AS DETERMINED BY THE CITY ENGINEER. IN ORDER TO MINIMIZE ANY ADVERSE CONSTRUCTION NOISE IMPACTS, ANY POWER–OPERATED CONSTRUCTION–TYPE DEVICES SHALL NOT BE OPERATED BETWEEN THE HOURS OF 7:00 P.M. AND 7:00 A.M. UNLESS AUTHORIZED BY THE CITY ENGINEER.

(F) OPEN TRENCH CONSTRUCTION:

THE DEVELOPER/CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXCAVATION/TRENCHING PRACTICES FOR THE PROPOSED IMPROVEMENT, OR AS FURTHER SHOWN ON THE PLANS AND SPECIFICATIONS.

THE DEVELOPER/CONTRACTOR SHALL FOLLOW ALL APPLICABLE LOCAL AND STATE SAFETY REGULATIONS, INCLUDING CODE OF FEDERAL REGULATIONS, PART 1926 (SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION), SUBPART P (EXCAVATIONS), FOR ALL APPLICABLE REQUIREMENTS AND RESPONSIBILITIES.

PRIOR TO COMMENCING CONSTRUCTION, THE DEVELOPER/CONTRACTOR SHALL NOTIFY THE CITY ENGINEER OF THE PROJECT'S ASSIGNED "COMPETENT PERSON" IN OSHA EXCAVATION STANDARDS.

(G) TRENCH CLOSING AND TEMPORARY TOPPING:

THE DEVELOPER/CONTRACTOR SHALL BE RESPONSIBLE TO DETERMINE THE NECESSARY LEVELS OF PROTECTION AND SAFEGUARDING OF ALL OPEN TRENCHES, WHEN WORK IS EITHER COMPLETED AT THE END OF THE DAY OR SUSPENDED FOR ANY OTHER REASON.

FOR TRENCH SURFACE REQUIREMENTS, REFER TO NOTE 4 ON CITY STANDARD DRAWING NO. 19.

(H) DUST CONTROL:

THE DEVELOPER/CONTRACTOR SHALL FURNISH AND APPLY WATER AND CALCIUM CHLORIDE FOR DUST CONTROL AS DIRECTED BY THE ENGINEER. SUFFICIENT QUANTITIES OF CALCIUM CHLORIDE SHALL BE STORED ON THE JOB SITE AT ALL TIMES TO BE USED FOR DUST CONTROL.

(I) TESTING/TELEVISING OF SEWERS:

NEW SANITARY SEWERS

ALL NEWLY CONSTRUCTED SANITARY SEWERS (INCLUDING LATERALS) MUST BE INSTALLED AND TESTED IN ACCORDANCE WITH APPLICABLE STANDARDS PER THE OHIO ENVIRONMENTAL PROTECTION AGENCY, AND PER THE REQUIREMENTS OF THE CITY ENGINEER.

SANITARY SEWERS SHALL BE TESTED BY DEVELOPER/CONTRACTOR IN ACCORDANCE WITH THE CITY OF CANTON'S SUPPLEMENTAL SPECIFICATIONS:

02-00 TESTING FOR EXCESSIVE DEFLECTION FOR NON-PRESSURE THERMOPLASTIC SEWER PIPE.

03-00 TESTING PRACTICES FOR LOW-PRESSURE AIR TESTING OF INSTALLED, NON-PRESURE, THERMOPLASTIC SEWER PIPE.

04-01 STANDARD TEST METHOD FOR CONCRETE SEWER MANHOLES BY THE NEGATIVE AIR PRESSURE TEST.

05-01 SEWER TELEVISION INSPECTION AND DOCUMENTATION PROCEDURE.

EXISTING SEWERS:

EXISTING SANITARY AND STORM SEWERS WITHIN THE PROJECT LIMITS SHALL BE TELEVISED, IN ACCORDANCE WITH CITY OF CANTON'S SUPPLEMENTAL SPECIFICATION 05–01, BY THE DEVELOPER/CONTRACTOR WHEN A PAY ITEM IS PROVIDED, AND AS DEEMED NECESSARY OR DIRECTED BY THE CITY ENGINEER.

SPECIAL	EXISTING SEWER TELEVISING, MOBILIZATION	LUMP SUM
SPECIAL	EXISTING SEWER TELEVISING/RECORDING	_____ L.F.

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GENERAL NOTES

TIMKEN STEEL DR. SW
CANTON, OH

Printed by BTB on Friday, October 1, 2021 – 4:04 PM
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Item 614 - Maintenance of Traffic, As Per Plan

Access to Solmet (2025 Dueber Ave. SW) and protection of the railroad crossing.

Currently the Solmet facility which is located on the vacated portion of Dueber Ave. has access from the south via the existing railroad crossing and the vacated TimkenSteel Dr. Uninterrupted access to Solmet must be provided for the duration of the project. The Wheeling & Lake Erie Railway Company (WLE) is currently working on an independent project to realign and replace the crossing surface and lights and gates. The date for which this work will begin or be completed is not currently known. Therefore, even if the roadway work included under this contract is completed the crossing may remain closed to traffic until the crossing work is done.

In order to maintain access to Solmet, the contractor must phase the work as follows:

Phase 1: Maintain the existing access to Solmet from the south using the existing railroad crossing and vacated TimkenSteel Dr. while constructing the new road from 20th St. south to and including the new Solmet driveway.

Phase 2: Switch Solment traffic access to the newly completed Phase 1 work while completing the balance of the roadway work in the contract.

All signage, barricades, and other resources needed to perform the appropriate MOT for the phasing and the protection of the work site during construction must be designed and installed by the contractor according to all ODOT and city standards. The cost of this work should be included in the bid item 614 Maintenance of Traffic, As Per Plan, lump.

Item 614 - Maintenance of Traffic Contingency, As Per Plan

Upon completion of Phase 2, the railroad crossing and southern access will remain closed until WLE completes its work on the crossing realignment and reconstruction.

As part of this contract, the contractor must provide barricades and signage to maintain the railroad crossing in a closed state until WLE begins the work on the crossing reconstruction at which point WLE will provide the proper barricades and signage. Given the uncertainty of when WLE will begin their work, this traffic control may need to remain in place for an extended period of time. Payment of providing and maintaining this traffic control will begin from the date of substantial completion of this contract until the point when the City Engineer directs the contractor to remove this traffic control. The cost of this work should be included in the bid item 614 Maintenance of Traffic Contingency, As Per Plan, cost per month. A 6th month duration is included in the general summary as a contingency quantity.

Item 611-12" Conduit, Type B, As Per Plan

The bedding material around the pipe must be per Canton Standard Drawing 19. The trench backfill over the pipe must consist entirely of ODOT 304.

Indiana Bat

This project is in the range if the Indiana Bat which is an endangered species. In order to limit potential impacts to the bat and its habitat, trees can only be cut from October 15th to March 31st.

Limited Phase II Environmental Site Assessment

Given that this project will be constructed on land that had prior industrial uses, the city commissioned a Limited Phase II Environmental Site Assessment. Eight test pits were dug to an estimated depth that would be disturbed by this construction project along the length of the project and soils samples were taken at each test pit. After analyzing the samples, the consultant concluded that at the locations of the testing, no obvious signs of environmental contamination were observed during the excavation and sampling operations. Various assorted fill consisting of rock, brick, concrete, gravel, asphalt, remnants, etc., were observed. The full report is included for the benefit of the contractor in the bid documents. The contractor should read this report and make themselves aware of the findings and the limitations of the findings.

The contractor must take into account the findings in the report when planning their construction means and methods, waste disposal, and bids.

The city nor the environmental consultant do not guarantee or warrant that no contaminates will be encountered on the project. Should the contractor encounter suspected contaminates during the project they must notify the city and work collaboratively with the city to deal with any potential contaminations.

Wheeling & Lake Erie Railway Company (WLE) Coordination

The southern terminus of the project is a WLE railroad crossing. The contractor must work with WLE to facilitate any proposed roadway construction within the WLE right of way. Under no circumstances shall the contractor or any of their equipment be any closer than 15 feet of the rails without explicit approval of WLE. The contractor is responsible for all coordination with WLE and any expenses/insurances/bonds/etc. that are required by WLE to facilitate the construction of this project. The contractor should contact WLE prior to submitting their bid to ensure that they account for these cost in their bid. There is no separate bid item for these expenses and they are considered incidental to the cost of the project.

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GENERAL NOTES

TIMKEN STEEL DR. SW
CANTON, OH

II. CONSTRUCTION INCIDENTALS (continued)

(J) PRESERVATION AND RESTORATION OF DISTURBED FEATURES:

EXISTING DRIVES, BERMS, LAWNS, PAVEMENTS, CURBS, SIDEWALKS, SIGNS, MAILBOXES, FENCES, RETAINING WALLS, LANDSCAPING ITEMS, OR OTHER APPURTENANCES DISTURBED DURING CONSTRUCTION BUT NOT SPECIFICALLY DESIGNATED FOR REMOVAL/REPLACEMENT SHALL BE RESTORED BY THE DEVELOPER/CONTRACTOR AT HIS EXPENSE TO A CONDITION EQUAL TO OR BETTER THAN THAT WHICH EXISTED PRIOR TO DISTURBANCE AND TO THE COMPLETE SATISFACTION OF THE CITY ENGINEER.

RESTORATION OF EXISTING ROADWAYS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY, TOWNSHIP, COUNTY, AND/OR OTHER AGENCIES HAVING AUTHORITY. COST FOR THE RESTORATION OF THESE ITEMS SHALL BE THE RESPONSIBILITY OF THE DEVELOPER/CONTRACTOR, UNLESS OTHERWISE SPECIFIED IN THE PLANS OR SPECIFICATIONS. NO PUBLIC ROADWAY SHALL BE DISTURBED WITHOUT PRIOR WRITTEN APPROVAL FROM THE GOVERNING AGENCY AND ACQUISITION OF NECESSARY PERMITS.

(K) SALVAGED CASTINGS:

WHEN DIRECTED BY THE CITY ENGINEER, ALL METAL CASTINGS SHALL BE CAREFULLY REMOVED AND STORED ON SITE OR DELIVERED TO A LOCATION DESIGNATED BY THE CITY ENGINEER.

(L) PLUG EXISTING CONDUIT:

THIS ITEM SHALL CONSIST OF THE CONSTRUCTION OF BULKHEADS IN AN EXISTING CONDUIT TO BE ABANDONED.

BULKHEADS SHALL CONSIST OF BRICK AND/OR CONCRETE MASONRY WITH A MINIMUM THICKNESS OF 12 INCHES.

PAYMENT FOR PLUGGING OF EXISTING CONDUIT FOR ABANDONMENT SHALL BE INCLUDED IN THE UNIT BID OF THE VARIOUS ITEMS OF THE PROJECT.

(M) CONSTRUCTION LAYOUT:

THE DEVELOPER/CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION LAYOUT UTILIZING PERTINENT PLAN DATA. THE CITY ENGINEER WILL NOT BE RESPONSIBLE FOR STAKING HORIZONTAL OR VERTICAL CONTROL. CONSTRUCTION LAYOUT SHALL BE IN ACCORDANCE WITH ODOT 623 CONSTRUCTION LAYOUT STAKES.

AT THE CITY ENGINEER'S REQUEST, THE CONTRACTOR SHALL MAKE AVAILABLE ALL SURVEY FIELD NOTES FOR REVIEW.

(N) EXISTING MONUMENTATION:

THE CONTRACTOR SHALL PRESERVE ALL CORNERSTONES, IRON PINS, CONCRETE MONUMENTS AND/OR ANY TYPE OF LAND MONUMENT. THE CONTRACTOR SHALL HAVE ALL MONUMENTS IN THE PROXIMITY OF THE WORK REFERENCED. THE CONTRACTOR SHALL REPLACE/RESET ANY DISTURBED OR DAMAGED MONUMENTS AND SHALL FURNISH A CERTIFICATION BY A REGISTERED SURVEYOR THAT THE MONUMENTS HAVE BEEN RESTORED.

(O) ELEVATION DATUM:

ALL ELEVATIONS ARE BASED ON THE **NAVD 1988 DATUM.**

(P) DEWATERING OPERATIONS:

WHEN DEEMED NECESSARY, THE DEVELOPER/CONTRACTOR MAY INSTALL DEWATERING EQUIPMENT PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

THE PROPOSED LOCATION OF WELL POINTS, HEADER PIPE, ELECTRICAL DISTRIBUTION, GENERATORS AND DISCHARGE PIPES, ETC. SHALL BE THE RESPONSIBILITY OF THE DEVELOPER/CONTRACTOR.

THE DEVELOPER/CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS FOR THE INSTALLATION AND SUBSEQUENT REMOVAL OF DEWATERING EQUIPMENT AS WELL AS PROPER WATER DISCHARGE PROCEDURES AS MAY BE REQUIRED PER STATE AND LOCAL GOVERNING AGENCIES.

INSTALLATION OF ALL ELECTRICAL EQUIPMENT, INCLUDING GROUNDING AND PROTECTION SHALL BE THE RESPONSIBILITY OF THE DEVELOPER/CONTRACTOR.

DEVELOPER/CONTRACTOR SHALL PROVIDE ALL COMBUSTIBLE ENGINE DRIVEN GENERATORS WITH "HOSPITAL GRADE" MUFFLERS. MUFFLERS SHALL BE RATED, AT A MAXIMUM OF 67 dB AT 23 FEET AWAY RUNNING FULL LOAD.

(Q) INSPECTION:

FOLLOWING THE PRE-CONSTRUCTION MEETING(S) AND ESTABLISHMENT OF AN APPROVED SCHEDULE, THE CONTRACTOR SHALL GIVE A MINIMUM 48 HOUR NOTICE BEFORE STARTING ANY WORK ON THIS PROJECT AND SHALL KEEP THE CITY INFORMED OF HIS/HER CONSTRUCTION SCHEDULE. ALL WORK REQUIRED FOR THIS IMPROVEMENT SHALL BE SUBJECT TO INSPECTION BY THE CITY OF CANTON OR THEIR DESIGNATED REPRESENTATIVE. NO WORK SHALL BE PERFORMED WITHOUT AN AUTHORIZED INSPECTOR PRESENT, UNLESS OTHERWISE APPROVED.

(R) FIELD OFFICE:

IF A PAY ITEM IS PROVIDED, THE DEVELOPER/CONTRACTOR SHALL PROVIDE A FIELD OFFICE IN ACCORDANCE WITH ODOT 619. THE FIELD OFFICE SHALL BE TYPE 'A', UNLESS OTHERWISE SPECIFIED.

III. EARTHWORK / SITE WORK

(A) EASEMENTS AND RIGHT-OF WAY:

THE DEVELOPER/CONTRACTOR SHALL STAY WITHIN THE DESIGNATED PROPERTIES, EASEMENTS, AND/OR RIGHT-OF-WAY PROVIDED FOR THE PROJECT AT ALL TIMES. NO MATERIAL SHALL BE STORED NOR ANY WORK PERFORMED ON PRIVATE PROPERTY UNLESS OTHERWISE APPROVED. DISTURBANCE OF EXISTING FEATURES AND/OR IMPROVEMENTS SHALL BE KEPT TO AN ABSOLUTE MINIMUM AND AS APPROVED BY THE CITY ENGINEER/PROPERTY OWNER.

(B) SUITABILITY OF SITE:

THE CITY OF CANTON SHALL NOT BE RESPONSIBLE FOR THE TYPE AND/OR SUITABILITY OF THE MATERIAL UNDERLYING THE PROJECT SITE. THE DEVELOPER/CONTRACTOR MUST APPRAISE THEMSELVES OF ANY EXISTING SITE CONDITIONS WHICH MAY AFFECT THEIR BID OR THE PERFORMANCE OF THE REQUIRED WORK. THE DEVELOPER/CONTRACTOR SHALL PERFORM ANY INVESTIGATIONS AND/OR TESTING NECESSARY TO ADEQUATELY DETERMINE/ESTIMATE TO THEIR SATISFACTION ALL SITE CONDITIONS WHICH COULD AFFECT THE PERFORMANCE OF THE PROPOSED IMPROVEMENTS. THIS COULD INCLUDE, BUT NOT BE LIMITED TO, UNSUITABLE AND/OR UNSTABLE SOIL/SUBSURFACE CONDITIONS, ROCK, WATER (PERCHED OR FREE), SPRINGS, ETC.

REFER TO CITY STANDARD DRAWING NO. 19 FOR ADDITIONAL DETAILS.

(C) REMOVAL/REPLACEMENT OF UNSUITABLE MATERIAL:

THE DEVELOPER/CONTRACTOR SHALL UNDERCUT AND REPLACE UNSUITABLE MATERIAL ENCOUNTERED DURING INSTALLATION OF THE PROPOSED UTILITIES AND ROADWAY IN ACCORDANCE WITH CITY STANDARD DRAWING NO. 19.

IV. ROADWAY / DRIVE APPROACHES / WALK / CURB

(A) PAVEMENT STANDARDS:

PAVEMENTS SHALL BE CONSTRUCTED ACCORDING TO APPLICABLE CITY AND/OR ODOT STANDARD DRAWINGS AND SPECIFICATIONS EFFECTIVE AT THE TIME OF CONSTRUCTION, UNLESS SPECIFIED OTHERWISE ON THE PLANS.

(B) RESTRICTED WORK SCHEDULE:

NO CONCRETE FINISH WORK OR PERMANENT ASPHALT SHALL BE PLACED FROM NOVEMBER 15TH TO APRIL 15TH UNLESS WRITTEN APPROVAL IS GRANTED BY THE CITY ENGINEER.

(C) ASPHALT/CONCRETE:

IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER/CONTRACTOR TO NOTIFY THE ENGINEER 48 HOURS IN ADVANCE OF BEGINNING WORK WHICH REQUIRES COMPACTION TESTING AND/OR PRE-POUR INSPECTION PRIOR TO PLACEMENT OF ASPHALT OR CONCRETE. WORK SHALL NOT PROCEED UNTIL TESTING AND/OR INSPECTION HAS BEEN COMPLETED AND APPROVED BY THE CITY ENGINEER.

V. SANITARY SEWERS / STORM SEWERS

(A) SEWER STANDARDS:

ALL SANITARY/STORM SEWER CONDUITS AND APPURTENANCES SHALL BE CONSTRUCTED ACCORDING TO APPLICABLE CITY AND/OR ODOT STANDARD DRAWINGS AND SPECIFICATIONS EFFECTIVE AT THE TIME OF CONSTRUCTION, UNLESS SPECIFIED OTHERWISE ON THE PLANS.

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(B) FOR PROJECTS LESS THAN ONE (1) ACRE OF TOTAL LAND-DISTURBANCE:

AN EPA NPDES CONSTRUCTION STORM WATER PERMIT AND SWP3 IS NOT REQUIRED. HOWEVER, THE DEVELOPER/CONTRACTOR SHALL STILL ENSURE THAT APPROPRIATE PRACTICES ARE IN PLACE TO PROVIDE CONSTRUCTION RUNOFF AND EROSION AND SEDIMENT CONTROLS WITHIN THE PROJECT LIMITS. SUCH PRACTICES MAY INCLUDE THE USE OF SILT FENCE, STORM DRAIN INLET PROTECTION, JUTE MATTING, TEMPORARY SEEDING, MULCHING, CHECK DAMS, CONSTRUCTION ENTRANCES, CONCRETE WASHOUT AREAS, ETC. ALL PRACTICES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE CURRENT EDITION OF THE OHIO DEPARTMENT OF NATURAL RESOURCES' RAINWATER AND LAND DEVELOPMENT MANUAL, AS APPLICABLE.

EROSION AND SEDIMENT CONTROL PRACTICES MUST BE INSTALLED PRIOR TO BEGINNING CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTINUED INSPECTION AND MAINTENANCE OF ALL PRACTICES AND WILL BE HELD RESPONSIBLE FOR ADDRESSING ANY ON- OR OFF-SITE EROSION/SEDIMENT ISSUES RELATED TO THE PROJECT. THE OWNER/DEVELOPER/CONTRACTOR SHALL ABIDE BY ALL ORDERS ISSUED BY THE CITY PURSUANT TO INSPECTION OF THE PROJECT SITE. THE CONTRACTOR WILL BE RESPONSIBLE FOR REMOVING ALL SILT FENCE AND INLET CONTROLS AFTER PROJECT IS COMPLETE AND STABILIZED.

VII. TRAFFIC:

(A) MAINTAINING TRAFFIC:

THE CONTRACTOR SHALL MAINTAIN TRAFFIC ADJACENT TO AND THROUGH THE PROJECT AS DESCRIBED BELOW AND IN ACCORDANCE WITH THE REQUIREMENTS OF THE OHIO DEPARTMENT OF TRANSPORTATION MANUAL OF CONSTRUCTION AND MATERIALS SPECIFICATIONS ITEM 614 MAINTAINING TRAFFIC. THE CONTRACTOR SHALL FURNISH, MAINTAIN, AND REMOVE ALL SIGNS, FLAGS, FLAGMEN, WATCHMEN, BARRICADES, SIGN SUPPORTS, CONES, BARRELS, AND INCIDENTALS IN CONFORMANCE WITH THE MOST RECENT REVISIONS OF THE CURRENT EDITION OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS. INTERFERENCE WITH VEHICULAR TRAFFIC SHALL BE KEPT TO A MINIMUM AT ALL TIMES. ALL OPEN TRENCHES AND EXCAVATIONS SHALL BE PROTECTED WITH DRUMS, BARRICADES, OR BARRIERS. ACCESS SHALL BE MAINTAINED AT ALL TIMES FOR EMERGENCY AND FIRE DEPARTMENT VEHICLES.

ANY TEMPORARY ROADWAY CLOSING MUST BE APPROVED IN WRITING BY THE CITY ENGINEER AND ANY OTHER PUBLIC AGENCY HAVING JURISDICTION. THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER AT LEAST 72 HOURS IN ADVANCE OF ANY SUCH CLOSINGS FOR PUBLICATION AND EMERGENCY AGENCY NOTIFICATION.

(B) RESIDENTIAL AND BUSINESS AREAS:

THE CONTRACTOR SHALL MAINTAIN ACCESS TO LOCAL RESIDENCES AND BUSINESSES DURING CONSTRUCTION. IN THE EVENT A DRIVE ACCESS NEEDS TO BE CLOSED, THE CONTRACTOR SHALL GIVE NOTICE OF CLOSURE AND DURATION TO THE PROPERTY OWNER 24 HOURS IN ADVANCE. CONTRACTOR SHALL ARRANGE FOR ALTERNATE PARKING AND REASONABLE ACCESS FOR THOSE PROPERTY OWNERS AFFECTED BY DRIVE CLOSURES.

(C) EXISTING STREET NAME AND TRAFFIC CONTROL SIGNS:

WHERE WORK REQUIRES THE MOVEMENT OF EXISTING SIGNS (STOP SIGNS, SPEED LIMIT SIGNS, NO PARKING SIGNS, ETC.). THE CONTRACTOR IS REQUIRED TO MAINTAIN THE FUNCTION OF ALL TRAFFIC CONTROL SIGNS. ALL SIGNS REMOVED BY THE CONTRACTOR SHALL BE STORED ON SITE AND REINSTALLED BY THE CONTRACTOR.

(D) NEW STREET NAME & TRAFFIC CONTROL SIGNS:

ALL STREET NAME AND TRAFFIC CONTROL SIGNS SHALL COME COMPLETE AND BE MADE IN ACCORDANCE WITH THE CITY OF CANTON SIGN AND PAINT DEPARTMENT SPECIFICATIONS. GENERALLY, ALL SIGNS SHALL HAVE HI-INTENSITY SHEETING AND BE MADE WITH .080 50/52 ALUMINUM. STREET NAME SIGNS SHALL BE MADE WITH WHITE UPPER AND LOWER CASE LETTERING ON GREEN BACKGROUND USING 9" BLANKS, BE DOUBLED SIDED W/RADIUS CORNERS AND HAVE 6" NAME AND 3" SUFFIXES. ALL SIGN RELATED HARDWARE IS TO BE INCLUDED, SUCH AS 6" HEAVY DUTY U-CHANNEL CAPS AND STREET NAME CROSSES.

FOR SUBDIVISION DEVELOPMENTS, ALL PERMANENT STREET NAME SIGNS AND TRAFFIC CONTROL SIGNS SHALL BE FURNISHED AND INSTALLED BY THE DEVELOPER/CONTRACTOR.

(E) EXISTING TRAFFIC SIGNALS:

WHERE WORK REQUIRES INTERFERENCE WITH EXISTING SIGNALIZATION IN THE INTERSECTIONS, ALL WORK SHALL BE COORDINATED THROUGH THE CITY ENGINEER. THE CONTRACTOR SHALL NOT ALTER ANY SIGNALIZATION WITHOUT THE CITY ENGINEER'S AUTHORIZATION.

(F) NEW TRAFFIC SIGNALIZATION:

ALL NEW OR MODIFIED TRAFFIC SIGNALIZATION AT INTERSECTIONS SHALL BE IN ACCORDANCE WITH CITY TRAFFIC ENGINEERING TRAFFIC CONTROL GENERAL NOTES AND ODOT SPECIFICATIONS; WITH SPECIAL EMPHASIS ON ODOT ITEMS 625, 632, 633, 732, AND 733 WHICH DEALS WITH TRAFFIC CONTROL.

(G) TRAFFIC CONTROL PLAN:

THE DEVELOPER/CONTRACTOR SHALL SUBMIT TO THE CITY ENGINEER A TRAFFIC CONTROL PLAN IN ACCORDANCE WITH CITY SUPPLEMENTAL SPECIFICATION 01-00. DETOURS, IF NECESSARY, SHALL BE APPROVED BY THE CITY ENGINEER PRIOR TO PLAN SUBMISSION.

VIII. POST CONSTRUCTION INCIDENTALS

(A) AS-BUILT DRAWINGS:

AS-BUILT REPRODUCIBLE MYLARS SHALL BE PROVIDED TO THE CITY OF CANTON BY THE DESIGN ENGINEER AT THE COMPLETION OF THE PROJECT. AS-BUILT INFORMATION CONSISTS OF POST-CONSTRUCTION FIELD SURVEY DATA OF THE LOCATION, FLOWLINE ELEVATIONS, AND TOP-OF-GRATE/RIM ELEVATIONS FOR ALL STORM AND SANITARY STRUCTURES CONSTRUCTED AND/OR IMPACTED BY THE PROJECT.

FOR PRIVATE PROJECTS, THE CONSTRUCTION BOND WILL NOT BE RELEASED UNTIL THE AS-BUILT DRAWINGS HAVE BEEN ACCEPTED.

(B) PROPOSED MONUMENTATION:

THE DEVELOPER'S/CONTRACTOR'S SURVEYOR SHALL NOTIFY THE CITY ENGINEER IN WRITING UPON THE COMPLETION OF MONUMENTS BEING SET AS PER PLAN OR RECORD PLAT.

(C) RELEASE OF RETAINER/BONDS:

PRIOR TO THE RELEASE OF RETAINER/CONSTRUCTION BOND BY THE CITY OF CANTON, THE CONTRACTOR SHALL HAVE COMPLETED THE ENGINEER'S PROJECT PUNCHLIST AND SUBMIT FINAL WAIVER OF LIEN, IN ACCORDANCE WITH CITY SS 01-00.

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GENERAL NOTES

TIMKEN STEEL DR. SW
CANTON, OH

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	7	9	10	11	12	13	14	15	16	ITEM	GRAND TOTAL	UNIT	DESCRIPTION	REF. SHEET
													ROADWAY	
	1									201	1	LUMP	CLEARING AND GRUBBING	
			660							202	660	SY	PAVEMENT REMOVED, ASPHALT	
		1070								202	1070	SF	WALK REMOVED	
		90								202	90	LF	CURB REMOVED	
			70							202	70	FT	PIPE REMOVED, 24" AND UNDER	
		2	2							202	4	EA	CATCH BASIN REMOVED	
				901	838	314	140			203	2193	CY	EXCAVATION	
				48		10				203	58	CY	EMBANKMENT	
		1870	330							204	2200	SY	SUBGRADE COMPACTION	
		3	1							204	4	HR	PROOF ROLLING	
		2								623	2	EA	MONUMENT ASSEMPLY	
													EROSION CONTROL	
	175									659	175	CY	TOPSOIL (4" THICK)	
	7									SPECIAL	7	EA	INLET PROTECTION	
	1300									SPECIAL	1300	LF	SILT FENCE	
				347	460	398	134			659	1339	SY	SEEDING AND MULCHING, CLASS 1	
				347	460	398	134			659	1339	SY	INTER-SEEDING	
	0.3									659	0.3	TON	COMMERCIAL FERTILIZER	
	10									659	10	M GAL	WATER	
	1									823	1	EA	EROSION CONTROL	
	1									823	1	LUMP	SWPPP	
													DRAINAGE	
		1020	180							605	1200	FT	6" SHALLOW PIPE UNDERDRAINS WITH FABRIC WRAP	
		80	30							611	110	FT	6" CONDUIT TYPE F FOR UNDERDRAIN OUTLETS	
		69	33							611	102	FT	12" CONDUIT, TYPE B, AS PER PLAN	
		4	2							611	6	EA	CATCH BASIN	
		1								611	1	EA	INLET ADJUSTED TO GRADE	
			2							611	2	EA	MANHOLE	
													PAVEMENT	
		320	55							304	375	CY	AGGREGATE BASE	
		320	55							301	375	CY	ASPHALT CONCRETE BASE PG64-22	
		77	16							441	93	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (448) PG64-22	
		77	16							441	93	CY	ASPHALT CONCRETE INTERMEDIATE COURSE TYPE 1, (448), PG70-22M	
		139	24							407	163	GAL	TACK COAT INTERMEDIATE COURSE 0.075 GAL/SY	
		94	16							407	110	GAL	TACK COAT SURFACE COURSE 0.05 GAL/SY	
		345								608	345	SF	CURB RAMP, AS PER PLAN	
		1105	195							609	1300	FT	CURB TYPE 2-A	
								1		SPECIAL	1	LUMP	NON WOVEN GEOTEXTILE FABRIC, 702.09 24"W X 88'L AS PER PLAN	15
													TRAFFIC CONTROL	
									75	630	75	LF	GROUND MOUNTED SUPPORT, NO. 2 POST	
									50	630	50	SF	SIGN, FLAT SHEET	
									0.13	644	0	MI	CENTER LINE	
									50	644	50	FT	STOP LINE, 24 INCH	
									130	644	130	FT	CROSSWALK LINE, 12 INCH	
									1	644	1	EA	RAILROAD symbol marking	
									3	630	3	EA	REMOVAL OF GROUND MOUNTED SIGN AND STORAGE	
									2	630	2	EA	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	
													INCIDENTALS	
										SPECIAL	1	LUMP	SPECIAL, PRECONSTRUCTION VIDEO	
										624	1	LUMP	MOBILIZATION	
										SPECIAL	1	LUMP	AS-BUILT CONSTRUCTION PLANS	
										623	1	LUMP	CONSTRUCTION LAYOUT STAKES	
										614	1	LUMP	MAINTENANCE OF TRAFFIC	
										614	6	MONTH	MAINTENANCE OF TRAFFIC	
										206	2200	SY	CEMENT STABILIZED SUBGRADE, 16 INCHES DEEP	

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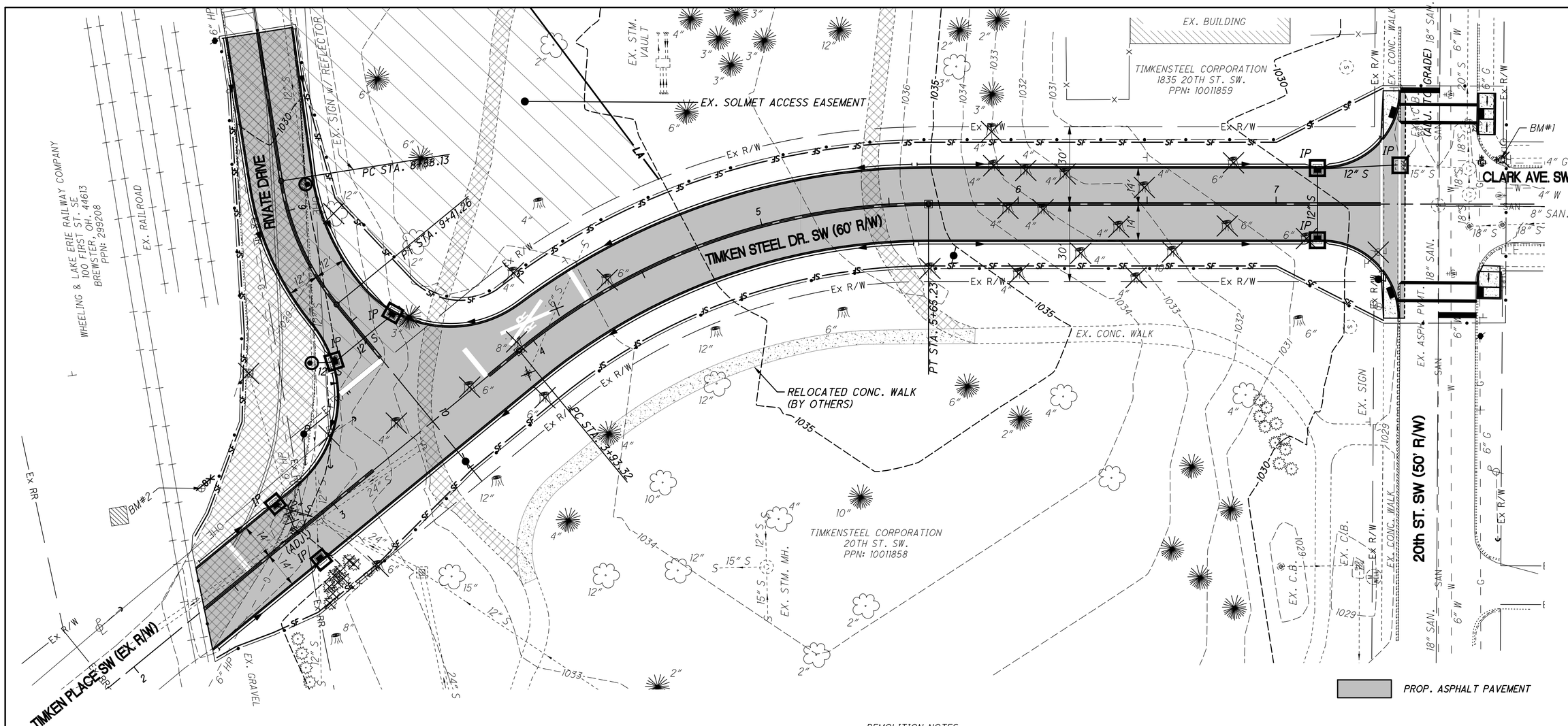
GENERAL SUMMARY

TIMKEN STEEL DRIVE SW
CANTON, OHIO



DEMOLITION NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND REMOVING ALL DEMOLITION DEBRIS FROM THE SITE.
2. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING AND/OR REPLACING ALL PAVEMENT, PAVEMENT MARKINGS, FENCES, WALKS, LAWN AND LANDSCAPING AREAS THAT ARE DAMAGED AND/OR DESTROYED AS PART OF THESE IMPROVEMENTS AT NO ADDITIONAL COST TO THE CITY.
3. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING AND/OR REPLACING ALL PUBLIC AND PRIVATE UTILITIES THAT ARE DAMAGED AND/OR DESTROYED AS PART OF THESE IMPROVEMENTS AT NO ADDITIONAL COST TO THE CITY.
4. PER THE U.S. FISH & WILDLIFE SERVICE, TREES MUST NOT BE CUT DOWN DURING THE MONTHS OF APRIL 1 THROUGH OCTOBER 15 IN ORDER TO PROTECT THE NORTHERN INDIANA BAT SPECIES. TREE REMOVAL IS DEFINED AS REMOVAL OF ALL TREES WITH A TRUNK DIAMETER EQUAL TO OR GREATER THAN 5 INCHES (SEE ODOT'S ECO TECHNICAL GUIDANCE ON INDIANA BAT AND NORTHERN LONG-EARED BAT PBO REVISED MAY 2018 DOCUMENT).
5. A WETLANDS DELINEATION WAS NOT PERFORMED AS PART OF THIS PROJECT.
6. ALL PAVEMENT CURB AND SIDEWALK TO BE REMOVED SHALL BE SAW CUT FULL DEPTH AT EXISTING CONSTRUCTION JOINTS.
7. ALL SAW CUTTING MUST BE DONE WET, TO CONFORM TO THE OHIO EPA'S FUGITIVE DUST ACT.
8. THE CONTRACTOR SHALL ALSO ENSURE THAT ANY AREA USED FOR LAYDOWN OR STORAGE OF VEHICLES OR MATERIALS SHALL BE COMPLETELY RESTORED TO ITS PREVIOUS CONDITION.

PROP. ASPHALT PAVEMENT

PROP. CONCRETE WALK

EX. PAVEMENT & WALK (TO BE REMOVED) (CONCRETE WALK OUTSIDE CONSTRUCTION LIMITS OR R/W BY OTHERS)

TO BE REMOVED

IP — PROP. INLET PROTECTION (SEE DETAIL SHEET)

SF — PROP. SILT FENCE

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HORIZONTAL SCALE IN FEET 0 10 20 40

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STORM WATER POLLUTION PEVENTION PLAN

TIMKEN STEEL DR. SW
CANTON, OH

PROJECT INFORMATION

NAME: CLARK AVENUE SW – ROADWAY EXTENSION
LOCATION: CANTON, OH. 44705
NAME OF CONTACT FOR SITE OPERATORS: DAN MOEGLIN, CITY ENGINEER
CITY OF CANTON, (330)–438–6903
NAME OF SWPPP AUTHORIZATION AGENT: BRUCE BITTNER, PE
RE WARNER & ASSOCIATES, (440–835–9400)
PREPARATION DATES: SEPTEMBER, 2021
ESTIMATE OF CONSTRUCTION START: NOVEMBER, 2021
ESTIMATE OF CONSTRUCTION COMPLETION: APRIL, 2022

SITE DESCRIPTION NOTES

1. THE PRIMARY NATURE OF THE CONSTRUCTION ACTIVITY IS THE EXTENSION OF CLARK AVENUE SW SOUTH OF 20th STREET SW AND CONNECTING TO TIMKEN PLACE SW.
2. THE TOTAL AREA OF THE SITE EXPECTED TO BE DISTURBED IS APPROXIMATELY 0.90 ACRES.
3. THE CURRENT LAND USE IS INDUSTRIAL AND OPEN SPACE.
4. LATITUDE: 40° 46' 38"; LONGITUDE: 81° 23' 33"
5. THE SOIL ON SITE IS DESIGNATED AS URBAN.
6. THE SEQUENCE OF MAJOR CONSTRUCTION ACTIVITIES SHOULD BE AS FOLLOWS: THE CONSTRUCTION SCHEDULE IS PLANNED FOR AUGUST, 2021 – OCTOBER, 2021.
   a. INSTALL CONSTRUCTION ENTRANCE AND INLET PROTECTION
   b. ERECT SILT FENCE
   c. CLEARING AND TREE REMOVAL
   d. ADJUSTMENTS AND CONSTRUCTION OF STORM SEWER AND UNDERDRAINS
   e. CONSTRUCTION OF PROPOSED ROADWAY PAVEMENT WITH CURB
   f. PERMANENT GRADING AND RESTORATION SEEDING

EROSION AND SEDIMENT CONTROL NOTES

1. SILT FENCES AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL, AT LEAST DAILY DURING PROLONGED RAINFALL AND WEEKLY WHETHER THERE HAS BEEN RAIN OR NOT. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
2. SHOULD THE FABRIC ON THE SILT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER IS STILL NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.
3. THE CONTRACTOR SHALL MEET REQUIREMENTS OF THE OHIO EPA AND OHIO DNR RAINWATER MANUAL.
4. ALL DEWATERING FLOWS SHALL BE SILT–FREE PRIOR TO DISCHARGE, AND DISCHARGE SHALL BE DIRECTED TO STABILIZED SITES SUCH AS STREAMS, PONDS, STORM SEWERS OR EXISTING GRASSED DRAINAGE WAYS ACCEPTABLE TO THE OWNER, NOT ONTO EXPOSED SOILS OR ANY OTHER SITE WHERE FLOWS COULD CAUSE EROSION.
5. IF, DUE TO WEATHER OR ONSET OF WINTER, FINAL GRADING CANNOT BE ACCOMPLISHED IMMEDIATELY, MULCHING AND TEMPORARY SEEDING IF FEASIBLE, OR SOME OTHER TYPE OF TEMPORARY EROSION CONTROL MEASURES MUST BE USED WITHIN 30 DAYS UNTIL LONG–TERM RESTORATION CAN OCCUR.
6. PRESERVATION SHALL TAKE PRECEDENCE OVER REMOVAL WITHIN THE TEMPORARY WORK LIMITS AND PERMANENT EASEMENT WIDTHS. REMOVE ONLY THOSE TREES, SHRUBS AND STRUCTURES NECESSARY TO COMPLETE CONSTRUCTION AND MAINTAIN THE NEW FACILITIES. REPLACEMENT "IN–KIND" OF REMOVED ITEMS SHOULD OCCUR WHEREVER POSSIBLE.
7. STOCKPILED TOPSOIL AND MATERIALS SHALL BE PROTECTED WITH EROSION CONTROL BARRIERS OR TEMPORARY SEEDING.
8. EXCESS SOIL THAT IS STOCKPILED MUST BE EITHER REMOVED OR REGRADED WITHIN 15 DAYS OF THE COMPLETION OF THE CONSTRUCTION.
9. NO FILL, TOPSOIL OR HEAVY EQUIPMENT SHALL BE STORED WITHIN 200 FEET OF A STREAM BANK OR WITHIN THE DRIPLINE OF TREE AREAS.
10. ALL DISTURBED VEGETATION IS TO BE RESEEDED AS PART OF RESTORATION. UNLESS THE AREA WILL BE PAVED OR OCCUPIED. TOPSOILING FOR THE RESTORATION OF VEGETATED AREAS DISTURBED BY CONSTRUCTION SHALL AVERAGE (4) INCHES IN THICKNESS AT A MINIMUM.
11. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN THIRTY DAYS OF ACHIEVING FINAL SITE STABILIZATION OR AFTER TEMPORARY MEASURES ARE NO LONGER NEEDED. TRAPPED SEDIMENT AND OTHER DISTURBED SOIL AREAS RESULTING FROM THE REMOVAL OF TEMPORARY MEASURES SHALL HAVE THE FINAL GRADE RE–ESTABLISHED AND BE PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION AND SEDIMENTATION.
12. PROTECTED STORAGE AREAS ARE TO BE USED FOR INDUSTRIAL OR CONSTRUCTION MATERIALS TO MINIMIZE EXPOSURE OF SUCH MATERIALS TO STORMWATER.
13. FUEL TANKS ARE TO BE CONTAINED OR DIKED IN THE EVENT OF A LEAK OF SPILL.
14. THE CONTRACTOR SHALL USE PLAN DESIGNATED AREA FOR THE STORAGE OR DISPOSAL OF SOLID AND TOXIC WASTES (INCLUDING DUMPSTER AREA), TRUCK WASHOUT, COMPOUND STORAGE, AND VEHICLE REFUELING.
15. ALL CONSTRUCTION AND DEMOLITION DEBRIS (C&DD) WASTE WILL BE DISPOSED OF IN AN OHIO EPA APPROVED C&DD LANDFILL AS REQUIRED BY THE OHIO REVISED CODE (ORC) 3714 AND LOCAL REGULATIONS.

POLLUTANT CONTROL NOTES

1. PROTECTED STORAGE AREAS ARE TO BE USED FOR INDUSTRIAL OR CONSTRUCTION MATERIALS TO MINIMIZE EXPOSURE OF SUCH MATERIALS TO STORMWATER.
2. FUEL TANKS ARE TO BE CONTAINED OR DIKED IN THE EVENT OF A LEAK OF SPILL.
3. THE CONTRACTOR SHALL USE PLAN DESIGNATED AREA FOR THE STORAGE OR DISPOSAL OF SOLID AND TOXIC WASTES (INCLUDING DUMPSTER AREA), TRUCK WASHOUT, COMPOUND STORAGE, AND VEHICLE REFUELING.
4. ALL CONSTRUCTION AND DEMOLITION DEBRIS (C&DD) WASTE WILL BE DISPOSED OF IN AN OHIO EPA APPROVED C&DD LANDFILL AS REQUIRED BY THE OHIO REVISED CODE (ORC) 3714 AND LOCAL REGULATIONS.

SPECIFICATIONS FOR MULCH

1. MULCH AND/OR OTHER APPROPRIATE VEGETATIVE PRACTICES SHALL BE APPLIED TO DISTURBED AREAS WITHIN 7 DAYS OF GRADING IF THE AREA IS TO REMAIN DORMANT (UNDISTURBED) FOR MORE THAN 21 DAYS OR ON AREAS AND PORTIONS OF THE SITE WHICH CAN BE BROUGHT TO FINAL GRADE.
2. MULCH SHALL CONSIST OF ONE OF THE FOLLOWING:

A. STRAW – STRAW SHALL BE UNROTTED SMALL GRAIN STRAW APPLIED AT THE RATE OF 2 TONS/AC, OR 90 LBS/1000 SQ FT (TWO TO THREE BALES). THE STRAW MULCH SHALL BE SPREAD UNIFORMLY BY HAND OR MECHANICALLY. DIVIDE AREA INTO APPROXIMATELY 1,000 SQ FT SECTIONS AND PLACE TWO 45–LB BALES OF STRAW IN EACH SECTION.

B. HYDROSEEDER – WOOD CELLULOSE FIBER SHOULD BE USED AT 2,000 LB/AC OR 46 LB/1,000 SQ FT

C. OTHER – OTHER ACCEPTABLE METHODS INCLUDE MULCH MATTINGS APPLIED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS OR WOOD CHIPS APPLIED AT 10–20 TONS/AC.

3. MULCH ANCHORING – MULCH SHALL BE ANCHORED IMMEDIATELY TO MINIMIZE LOSS BY WIND OR RUNOFF. THE FOLLOWING ARE ACCEPTABLE METHODS FOR ANCHORING MULCH:

A. MECHANICAL – USE A DISK, CRIMPER, OR SIMILAR TYPE TOOL SET STRAIGHT TO PUNCH OR ANCHOR THE MULCH MATERIAL INTO THE SOIL. STRAW MECHANICALLY ANCHORED SHALL NOT BE FINELY CHOPPED BUT BE LEFT GENERALLY LONGER THAN 6 INCHES.

B. MULCH NETTINGS – USE ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS, FOLLOWING ALL PLACEMENT AND ANCHORING SUGGESTIONS. USE IN AREAS OF WATER CONCENTRATION AND STEEP SLOPES TO HOLD MULCH IN PLACE.

C. ASPHALT EMULSION – FOR STRAW MULCH, APPLY AT THE RATE OF 160 GAL/AC (0.1 GAL/SY) INTO THE MULCH AS IT IS BEING APPLIED OR AS RECOMMENDED BY THE MANUFACTURER.

D. SYNTHETIC BINDING – FOR STRAW MULCH, SYNTHETIC BINDERS AS ACRYLIC DLR (AGRI–TAC), DCA–70, PETROSET, TERRA TACK OR EQUAL MAY BE USED AT RATES RECOMMENDED BY THE MANUFACTURER.

E. WOOD CELLULOSE FIBER – WOOD CELLULOSE FIBER MAY BE USED FOR ANCHORING STRAW. THE FIBER BINDER SHALL BE APPLIED AT A NET DRY WEIGHT OF 750 LB.AC. THE WOOD CELLULOSE FIBER SHALL BE MIXED WITH WATER AND THE MIXTURE SHALL CONTAIN A MAXIMUM OF 50 LB/100 GAL OF WOOD CELLULOSE FIBER.

SPECIFICATIONS FOR TEMPORARY SEEDING

TEMPORARY SEEDING SPECIES SELECTIONS

SEEDING DATE	SPECIES	LB/1,000 SQ FT	PER ACRE
MARCH 1 TO AUGUST 15	OATS	3	128 LB
	TALL FESCUE	1	40 LB
	ANNUAL RYEGRASS	1	40 LB
	PERENNIAL RYEGRASS	1	40 LB
	TALLFESCUE	1	40 LB
	ANNUAL RYEGRASS	1	40 LB
AUGUST 16 TO NOVEMBER 1	RYE	3	112 LB
	TALL FESCUE	1	40 LB
	ANNUAL RYEGRASS	1	40 LB
	WHEAT	3	120 LB
	TALL FESCUE	1	40 LB
	ANNUAL RYEGRASS	1	40 LB
	PERENNIAL RYEGRASS	1	40 LB
	TALL FESCUE	1	40 LB
	ANNUAL RYEGRASS	1	40 LB

NOVEMBER 1 TO SPRING SEEDING USE MULCH ONLY, SODDING PRACTICES OR DORMANT SEEDING.

NOTE: OTHER APPROVED SEED SPECIES MAY BE SUBSTITUTED.

1. TEMPORARY SEEDING PROVIDES EROSION CONTROL ON AREAS IN BETWEEN CONSTRUCTION OPERATIONS. EFFECTIVE TEMPORARY SEEDING MINIMIZES THE AREA OF A CONSTRUCTION SITE PRONE TO EROSION AND SHOULD BE USED THROUGH THE SEQUENCE OF CONSTRUCTION OPERATIONS IN ALL DISTURBED AND EXPOSED SOIL AREAS THAT WILL ALLOW VEGETATION TO BE ESTABLISHED. TEMPORARY SEED SHALL BE APPLIED BETWEEN CONSTRUCTION OPERATIONS ON SOIL THAT WILL NOT BE GRADED OR REWORKED FOR 21 DAYS BUT LESS THAN 1 YEAR OR DISTURBED AREAS THAT WILL BE IDLE OVER WINTER, PRIOR TO NOV. 1. THESE IDLE ARES SHOULD BE SEEDED AS SOON AS POSSIBLE AFTER GRADING, A MAXIMUM OF 7 DAYS, OR 2 DAYS FOR AREAS WITHIN 50' OF A STREAM. SEVERAL APPLICATIONS OF TEMPORARY SEEDING ARE NECESSARY ON TYPICAL CONSTRUCTION PROJECTS.
2. THE SEEDBED SHOULD BE PULVERIZED AND LOST TO ENSURE THE SUCCESS OF ESTABLISHING VEGETATION. HOWEVER, TEMPORARY SEEDING SHALL NOT BE POSTPONED IF IDEAL SEEDBED PREPARATION IS NOT POSSIBLE.
3. SOIL AMENDMENTS – APPLICATION OF TEMPORARY VEGETATION SHALL ESTABLISH ADEQUATE STANDS OF VEGETATION WHICH MAY REQUIRE THE USE OF SOIL AMENDMENTS. SOIL TESTS SHOULD BE TAKEN ON THE SITE TO PREDICT THE NEED FOR LIME AND FERTILIZER.
4. SEEDING METHOD – SEED SHALL BE APPLIED UNIFORMLY WITH A CYCLONE SEEDER, DRILL, CULTIPACKER SEEDER, OR HYDROSEEDER. WHEN FEASIBLE, SEED THAT HAS BEEN BROADCAST SHALL BE COVERED BY RAKING OR DRAGGING AND THEN LIGHTLY TAMPED INTO PLACE USING A ROLLER OR CULTIPACKER. IF HYDROSEEDING IS USED, THE SEED AND FERTILIZER WILL BE MIXED ON–SITE AND THE SEEDING SHALL BE DONE IMMEDIATELY AND WITHOUT INTERRUPTION.

SPECIFICATIONS FOR PERMANENT SEEDING

FOR DISTURBED AREAS REMAINING DORMANT FOR OVER 1 YEAR OR AT FINAL GRADE, PERMANENT SEEDING WILL BE APPLIED WITHIN 7 DAYS. ANY AREAS WITHIN 50 FT OF A STREAM AND AT FINAL GRADE, PERMANENT SEEDING WILL BE APPLIED WITHIN 2 DAYS. TOPSOIL TO BE MINIMUM 4" THICK.

PLANTING TIME: PROCEED WITH – AND COMPLETE – LAWN WORK AS RAPIDLY AS PORTIONS OF THE SITE BECOME AVAILABLE, WORKING WITHIN SEASONAL LIMITATIONS FOR EACH KIND OF LANDSCAPE WORK REQUIRED. NORMAL SEEDING TIMES ARE AS FOLLOWS:

1. MARCH 15 TO JUNE 10
2. AUGUST 15 TO OCTOBER 1

SEEDING DURING OTHER THAN NORMAL SEEDING TIMES SHALL BE PERFORMED ONLY WITH THE PRIOR WRITTEN PERMISSION OF THE LANDSCAPE ARCHITECT WITH THE UNDERSTANDING THAT THE CONTRACT WILL THEREFORE BE ALTERED BY THE CHANGE ORDER.

GRASS SEED: PROVIDE FRESH, CLEAN, NEW CROP SEED COMPLYING WITH TOLERANCE FOR PURITY AND GERMINATION ESTABLISHED BY THE OFFICIAL SEED ANALYSIS OF MINIMUM PERCENTAGES OF PURITY, GERMINATION, AND MAXIMUM PERCENTAGES OF WEED SEED, AS FOLLOWS:

BOTANICAL AND COMMON NAME SIZE SECOND MILLENNIUM	PERCENTAGE BY WEIGHT (MINIMUM)	PERCENTAGE PURITY (MINIMUM)	PERCENTAGE GERMINATION (MINIMUM)	PERCENTAGE WEED (MINIMUM)
TALL FESCUE	20%	85%	80%	1.00%
INFERNO TALL FESCUE	20%	85%	80%	1.00%
CROSSFIRE II TALL FESCUE	20%	85%	80%	1.00%
AVENGER TALL FESCUE	20%	85%	80%	1.00%
BRIGHTSTAR SLT PERENNIAL RYEGRASS	10%	85%	80%	1.00%
BROOKLAWN KENTUCKY BLUEGRASS	10%	85%	80%	1.00%

PERFORM ALL LIMING, FERTILIZING, RAKING, AND COMPACTING OPERATIONS ONLY AT TIMES WHEN LOCAL WEATHER AND OTHER CONDITIONS AFFECTING SUCH WORK ARE NORMAL AND FAVORABLE TO THE PROPER PROSECUTION OF THE PARTICULAR WORK WITHIN THE DATES SPECIFIED OR WITHIN AN EXTENDED PERIOD OF TIME APPROVED BY THE OWNER'S REPRESENTATIVE.

FERTILIZING AND LIMING: THE CONTRACTOR SHALL INTRODUCE A 10–20–10 FERTILIZER AT THE RATE OF 20 POUNDS PER 100 SQUARE FEET, AND LIME OR OTHER ADDITIVES AT THE RATE APPROVED BY THE LANDSCAPE ARCHITECT. THE ABOVE ITEMS SHALL BE WORKED INTO THE TOP 2 INCHES OF SOIL AND SMOOTHED TO GRADE TO PREPARE A PROPER BED FOR SEEDING.

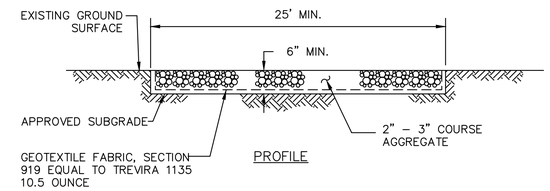
SOW SEED AT THE RATE OF 5 POUNDS PER 1000 SQUARE FEET FOR EACH AREA, UNIFORMLY, AND BY BROADCAST, DRILL, OR HAND SEEDING METHOD. IMMEDIATELY AFTER SOWING, RAKE DRAG, OR OTHERWISE TREAT THE AREA SO AS TO COVER THE SEED TO A DEPTH OF APPROXIMATELY ¼ INCH.

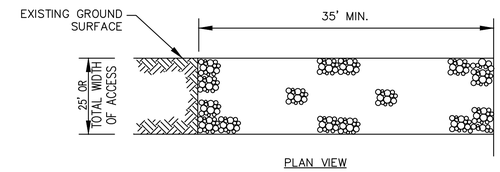
NO SEEDING SHALL BE DONE DURING WINDY WEATHER, OR WHEN THE GROUND SURFACE IS MUDDY, FROZEN, OR OTHERWISE NON–TILLABLE.

SEED AND MULCH ALL AREAS NEWLY GRADED WITHIN THE LIMITS OF CONSTRUCTION. REPAIR ANY AND ALL LAWN AREAS THAT ARE DAMAGED OUTSIDE THE LIMITS OF CONSTRUCTION BECAUSE OF CONTRACTOR OPERATIONS.

WHEN LANDSCAPE WORK IS COMPLETED, INCLUDING MAINTENANCE, THE LANDSCAPE ARCHITECT WILL MAKE AN INSPECTION TO DETERMINE ACCEPTABILITY.

EROSION CONTROL BLANKETS AND MATTING SHOULD BE USED TO STABILIZE CHANNELS WHERE THE FLOW VELOCITY IS GREATER THAN 3.5 FT/SEC., STEEP SLOPES, ON HIGHLY EROSIVE SOILS AND ON AREAS SLOW TO ESTABLISH A VEGETATIVE COVER.

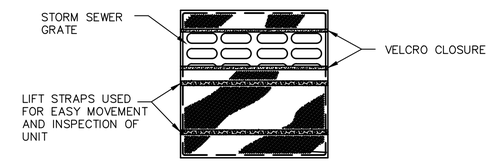


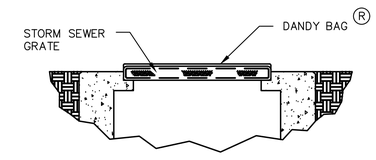


PLAN VIEW

CONSTRUCTION ROAD STABILIZATION

NOT TO SCALE





INLET PROTECTION

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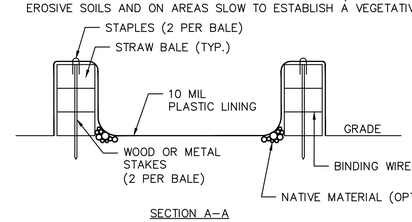
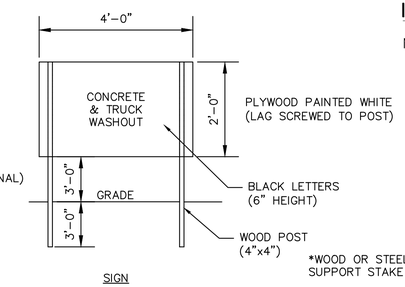
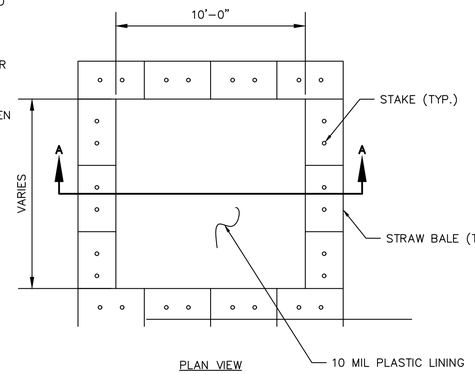


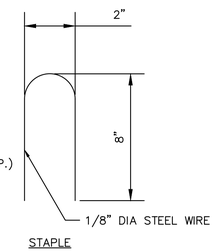
SECTION A–A



SIGN



PLAN VIEW



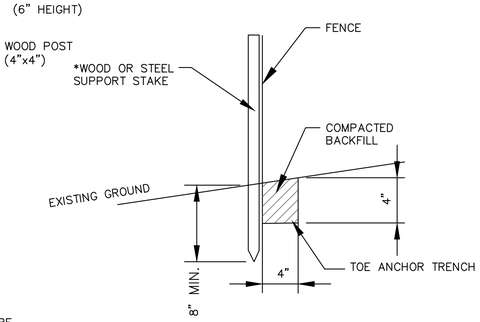
STAPLE

NOTES:

1. SIGN SHALL BE INSTALLED WITHIN 10 FEET OF THE TEMPORARY CONCRETE & TRUCK WASHOUT AREA.
2. ACTUAL LAYOUT SHALL BE DETERMINED IN THE FIELD.

CONCRETE & TRUCK WASHOUT DETAIL (ABOVE GRADE)

NOT TO SCALE



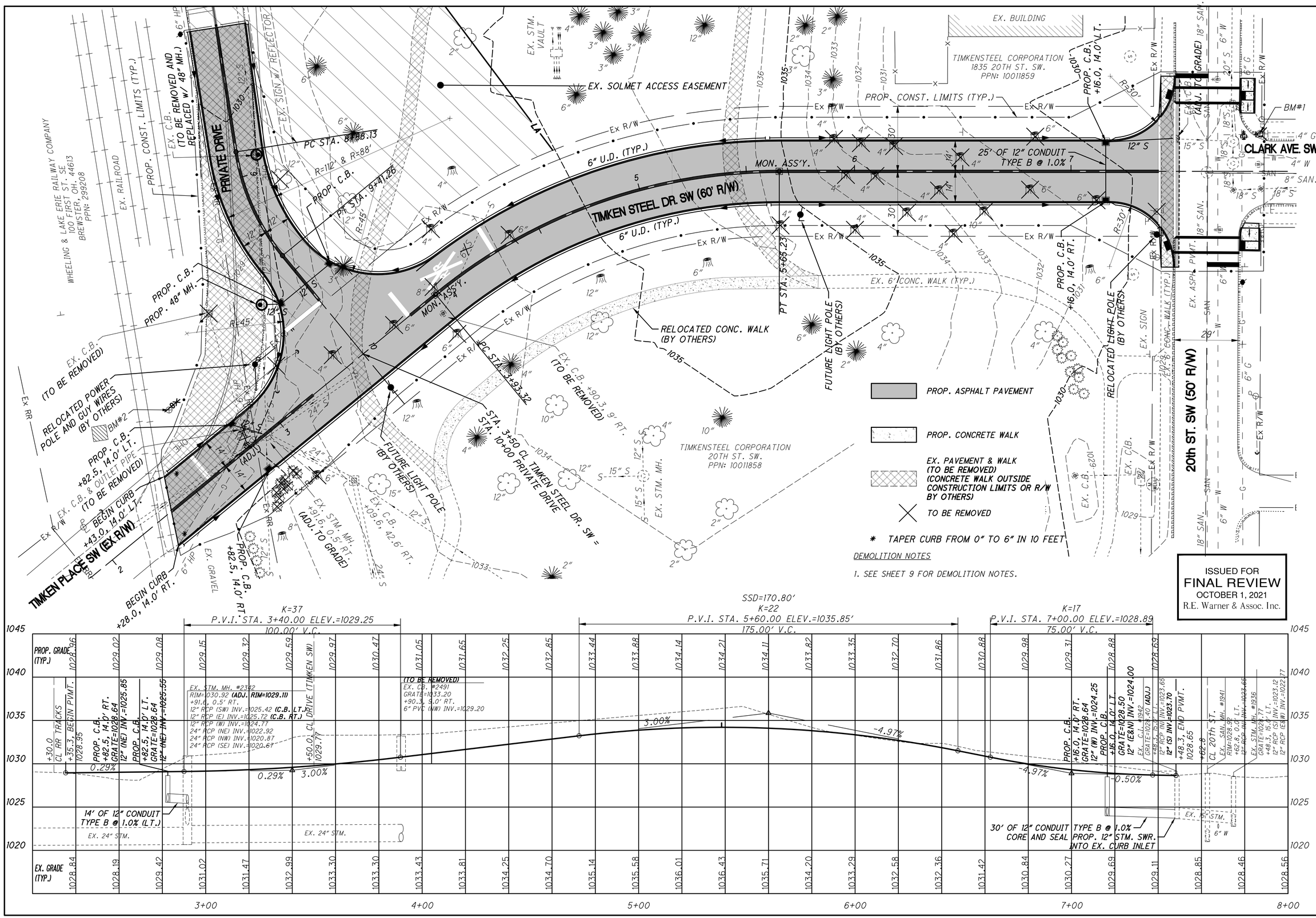
SILT FENCE OR APPROVED EQUAL

NOT TO SCALE

CALCULATED MJC
CHECKED BTB

STORM WATER POLLUTION PREVENTION NOTES AND DETAILS

TIMKEN STEEL DR. SW
CANTON, OH

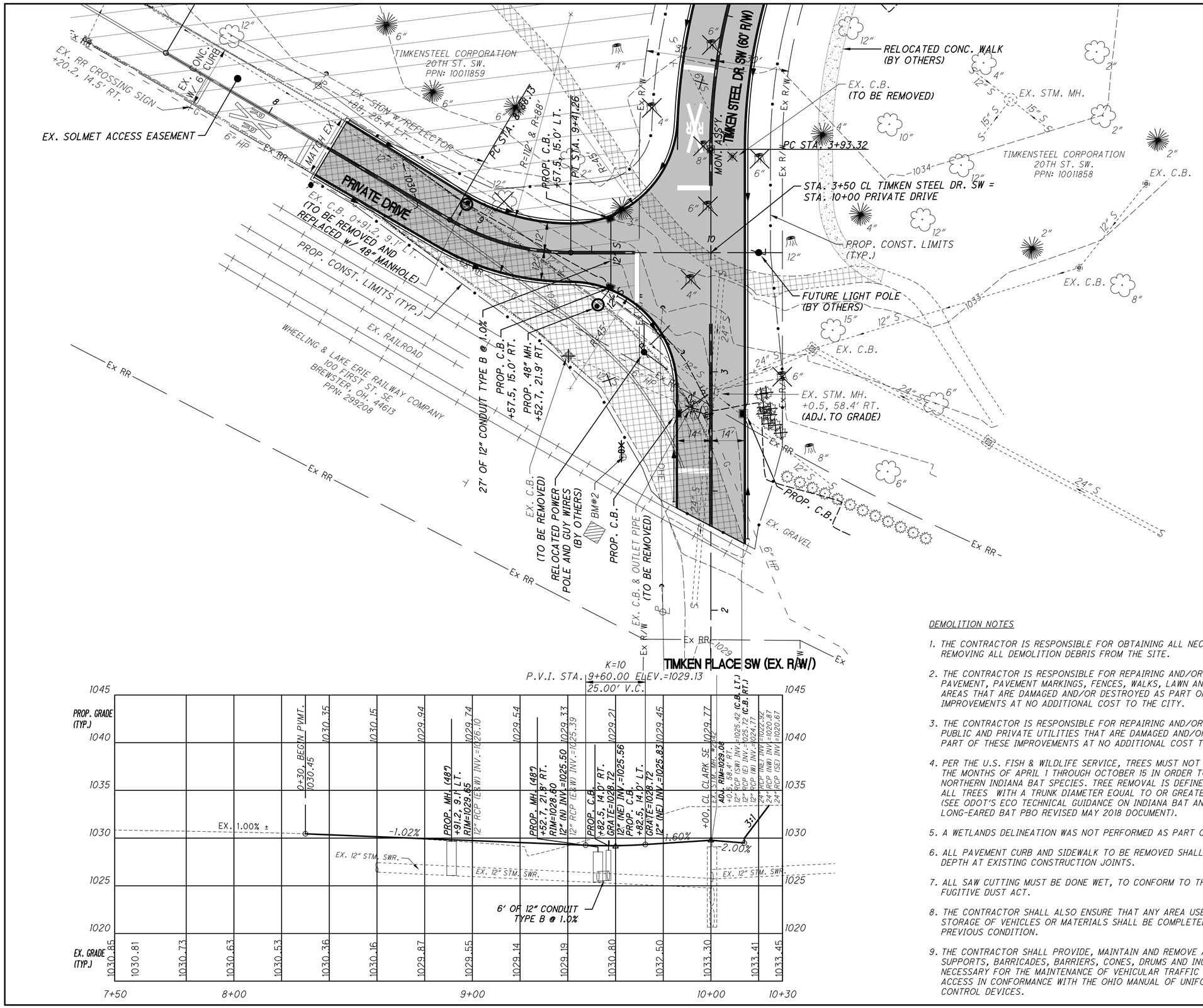


HORIZONTAL SCALE IN FEET

CALCULATED MJC
CHECKED BTB

PLAN AND PROFILE – TIMKEN STEEL DR. SW (60' R/W) STA. 2+20 TO STA. 7+78

TIMKEN STEEL DR. SW
CANTON, OH



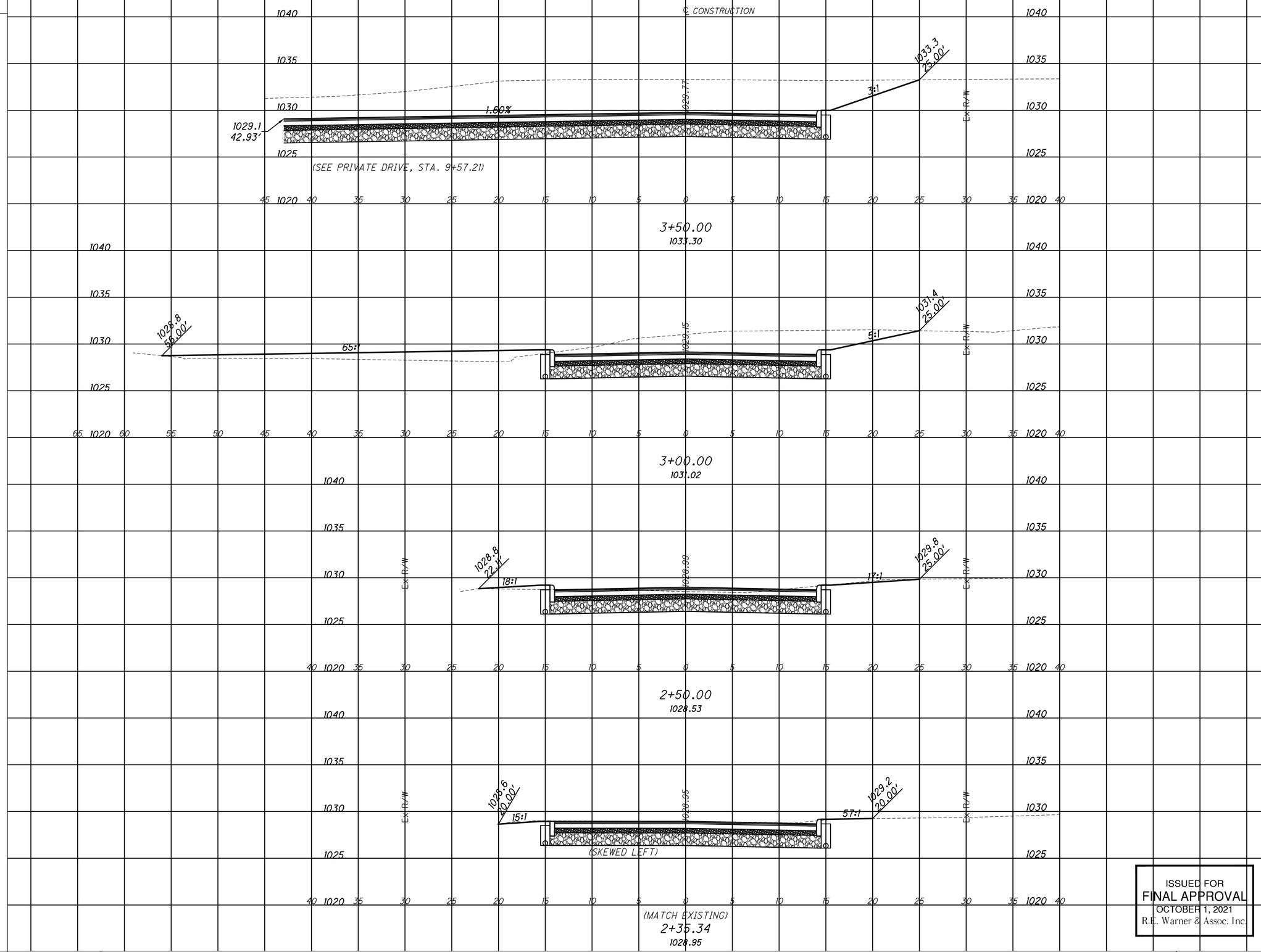
DEMOLITION NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND REMOVING ALL DEMOLITION DEBRIS FROM THE SITE.
2. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING AND/OR REPLACING ALL PAVEMENT, PAVEMENT MARKINGS, FENCES, WALKS, LAWN AND LANDSCAPING AREAS THAT ARE DAMAGED AND/OR DESTROYED AS PART OF THESE IMPROVEMENTS AT NO ADDITIONAL COST TO THE CITY.
3. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING AND/OR REPLACING ALL PUBLIC AND PRIVATE UTILITIES THAT ARE DAMAGED AND/OR DESTROYED AS PART OF THESE IMPROVEMENTS AT NO ADDITIONAL COST TO THE CITY.
4. PER THE U.S. FISH & WILDLIFE SERVICE, TREES MUST NOT BE CUT DOWN DURING THE MONTHS OF APRIL 1 THROUGH OCTOBER 15 IN ORDER TO PROTECT THE NORTHERN INDIANA BAT SPECIES. TREE REMOVAL IS DEFINED AS REMOVAL OF ALL TREES WITH A TRUNK DIAMETER EQUAL TO OR GREATER THAN 5 INCHES (SEE ODOT'S ECO TECHNICAL GUIDANCE ON INDIANA BAT AND NORTHERN LONG-EARED BAT PBO REVISED MAY 2018 DOCUMENT).
5. A WETLANDS DELINEATION WAS NOT PERFORMED AS PART OF THIS PROJECT.
6. ALL PAVEMENT CURB AND SIDEWALK TO BE REMOVED SHALL BE SAW CUT FULL DEPTH AT EXISTING CONSTRUCTION JOINTS.
7. ALL SAW CUTTING MUST BE DONE WET, TO CONFORM TO THE OHIO EPA'S FUGITIVE DUST ACT.
8. THE CONTRACTOR SHALL ALSO ENSURE THAT ANY AREA USED FOR LAYDOWN OR STORAGE OF VEHICLES OR MATERIALS SHALL BE COMPLETELY RESTORED TO ITS PREVIOUS CONDITION.
9. THE CONTRACTOR SHALL PROVIDE, MAINTAIN AND REMOVE ALL SIGNS, SIGN SUPPORTS, BARRICADES, BARRIERS, CONES, DRUMS AND INCIDENTALS NECESSARY FOR THE MAINTENANCE OF VEHICULAR TRAFFIC AND PEDESTRIAN ACCESS IN CONFORMANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

CALCULATED MJC
CHECKED BTB

PLAN AND PROFILE – PRIVATE DRIVE STA. 7+50 TO STA. 10+00

TIMKEN STEEL DR. SW
CANTON, OH



SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS	CUT	FILL	CUT	FILL
12	160	281	0	392	0
53	176	105	26	357	23
8	11	36	2	130	25
6	0	44	0	22	0
79	347	466	28	901	48
SHEET TOTAL		SHEET TOTAL			

HORIZONTAL SCALE IN FEET 0 2.5 5 10

CALCULATED MJC
CHECKED BTB

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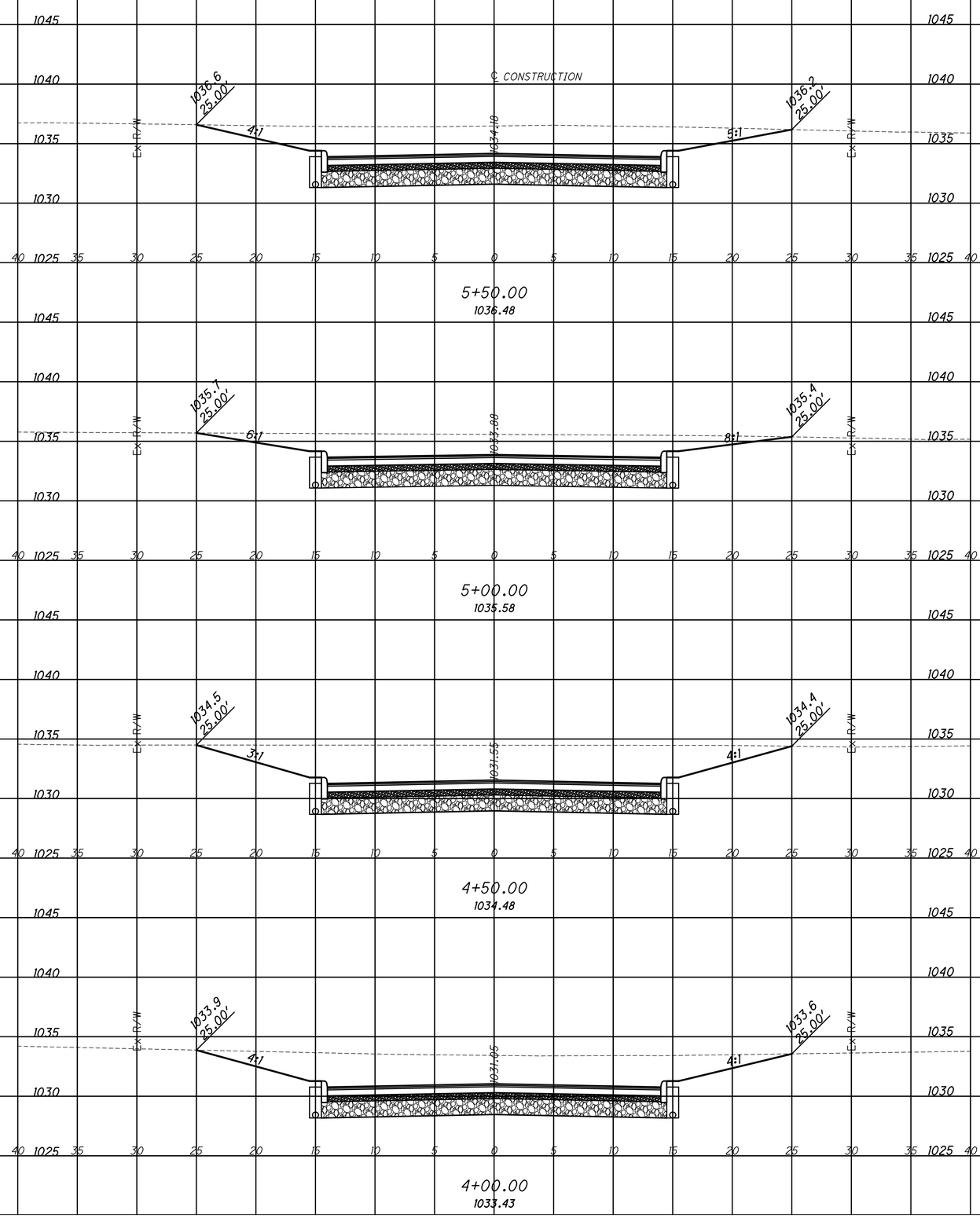
TIMKEN STEEL DR. SW – CROSS SECTIONS STA. 2+35 TO STA. 3+50

TIMKEN STEEL DR. SW
CANTON, OH

SEEDING			END AREA		VOLUME	
END WIDTH	SQ. YDS		CUT	FILL	CUT	FILL
					168	6
22	122		135	0		
					135	0
22	122		111	0		
					253	0
22	122		163	0		
					282	0
22	94		143	0		
88	460	SHEET TOTAL	552	0	838	6



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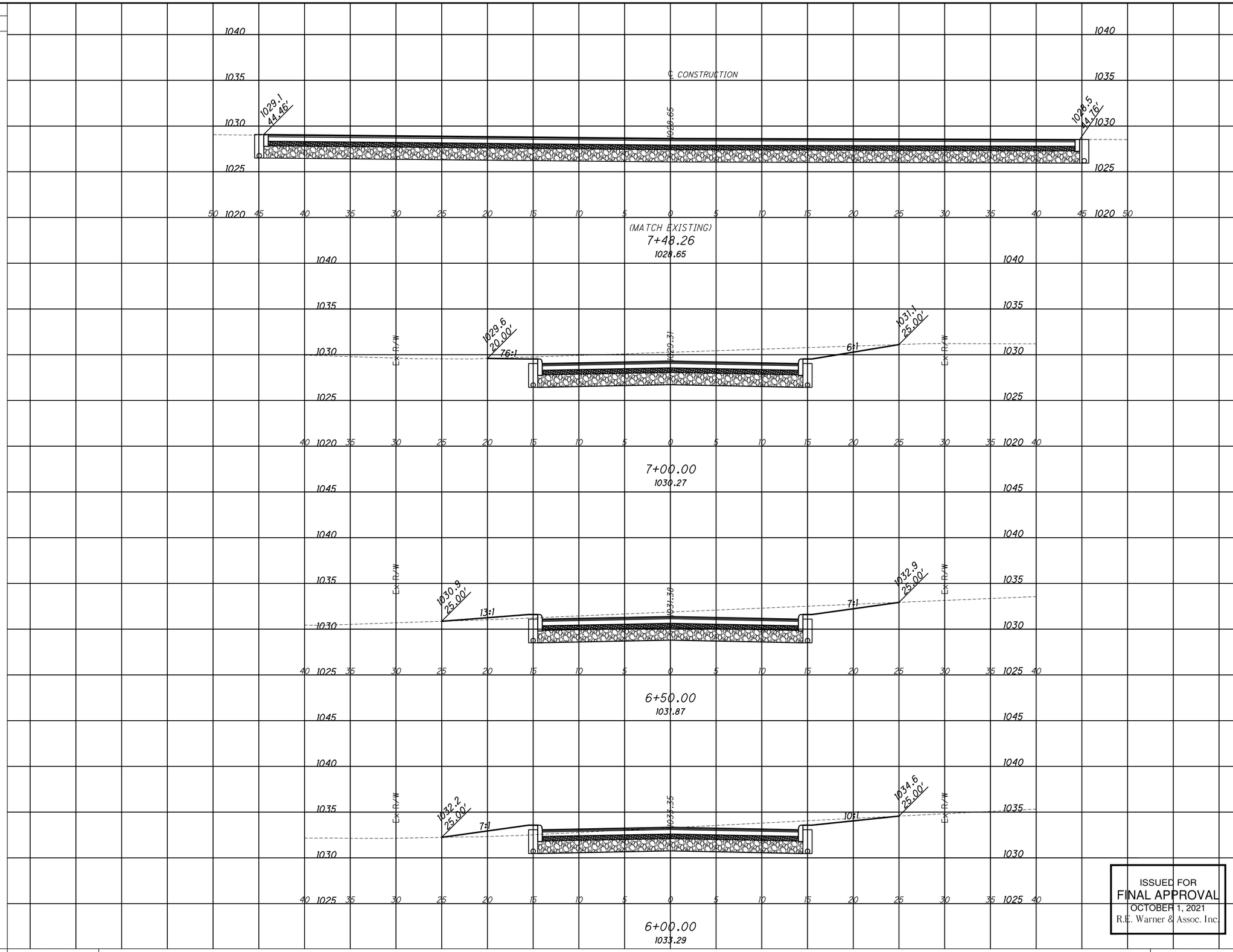
0 2.5 5 10
HORIZONTAL SCALE IN FEET

CALCULATED MJC
CHECKED BTB

TIMKEN STEEL DR. – CROSS SECTIONS STA. 4+00 TO STA. 5+50

TIMKEN STEEL DR. SW
CANTON, OH

SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS	CUT	FILL	CUT	FILL
0	46	0	0		
17	108	82	0	73	0
22	122	66	2	137	2
22	122	47	6	104	8
61	398	SHEET TOTAL		SHEET TOTAL	
		195	8	314	10



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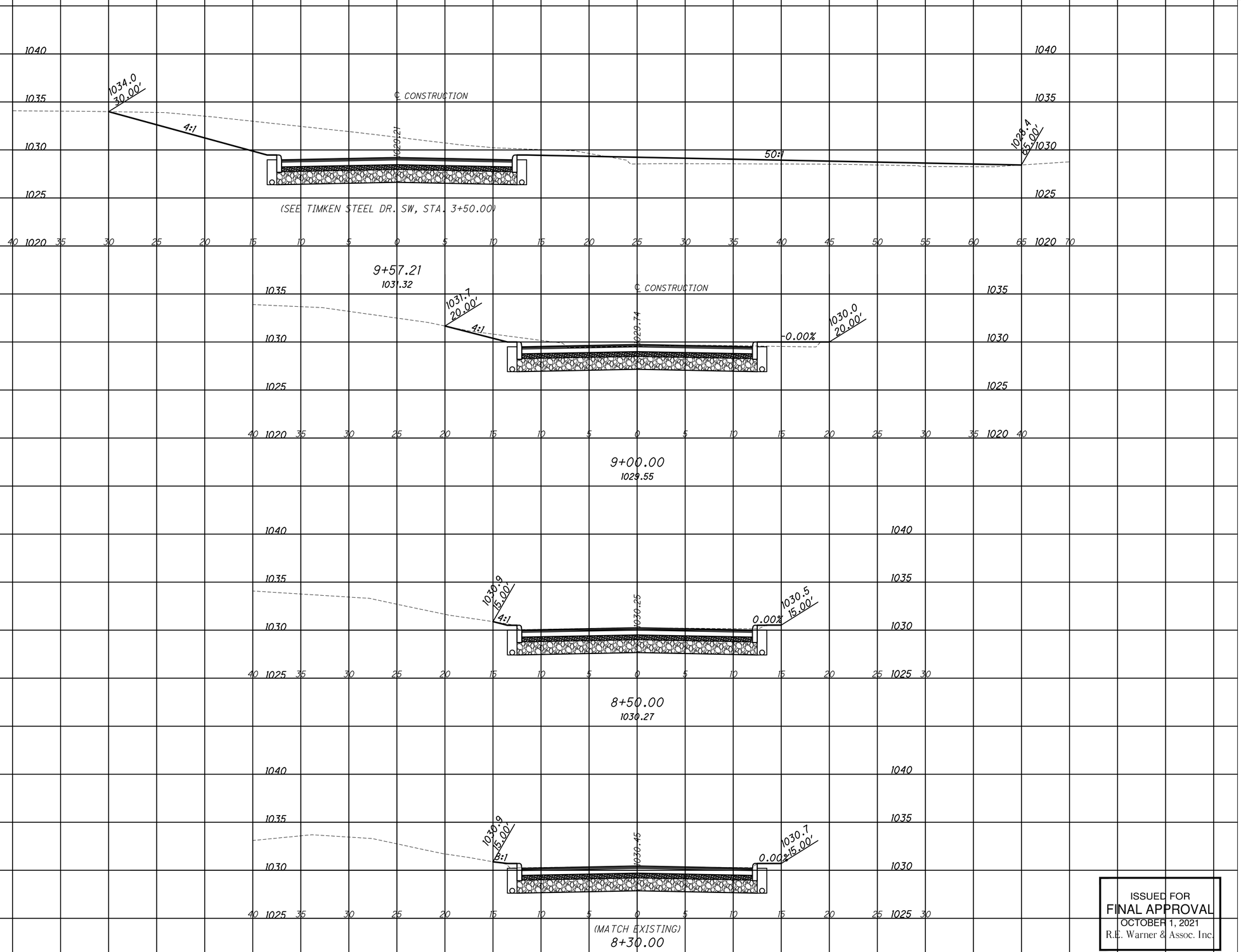
HORIZONTAL SCALE IN FEET
0 2.5 5 10

CALCULATED MJC
CHECKED BTB

TIMKEN STEEL DR. SW – CROSS SECTIONS STA. 6+00 TO STA. 7+48

TIMKEN STEEL DR. SW
CANTON, OH

SEEDING			END AREA		VOLUME	
END WIDTH	SQ. YDS		CUT	FILL	CUT	FILL
26	105		132	0		
					140	0
7	25		0	0		
					0	0
2	4		0	0		
					0	0
2	0		0	0		
37	134	SHEET TOTAL	132	0	140	0



ISSUED FOR
FINAL APPROVAL
OCTOBER 1, 2021
R.E. Warner & Assoc. Inc.

0 2.5 5 10
HORIZONTAL SCALE IN FEET

CALCULATED MJC
CHECKED BTB

PRIVATE DRIVE – CROSS SECTIONS STA. 8+30 TO STA. 9+57.21

TIMKEN STEEL DR. SW
CANTON, OH

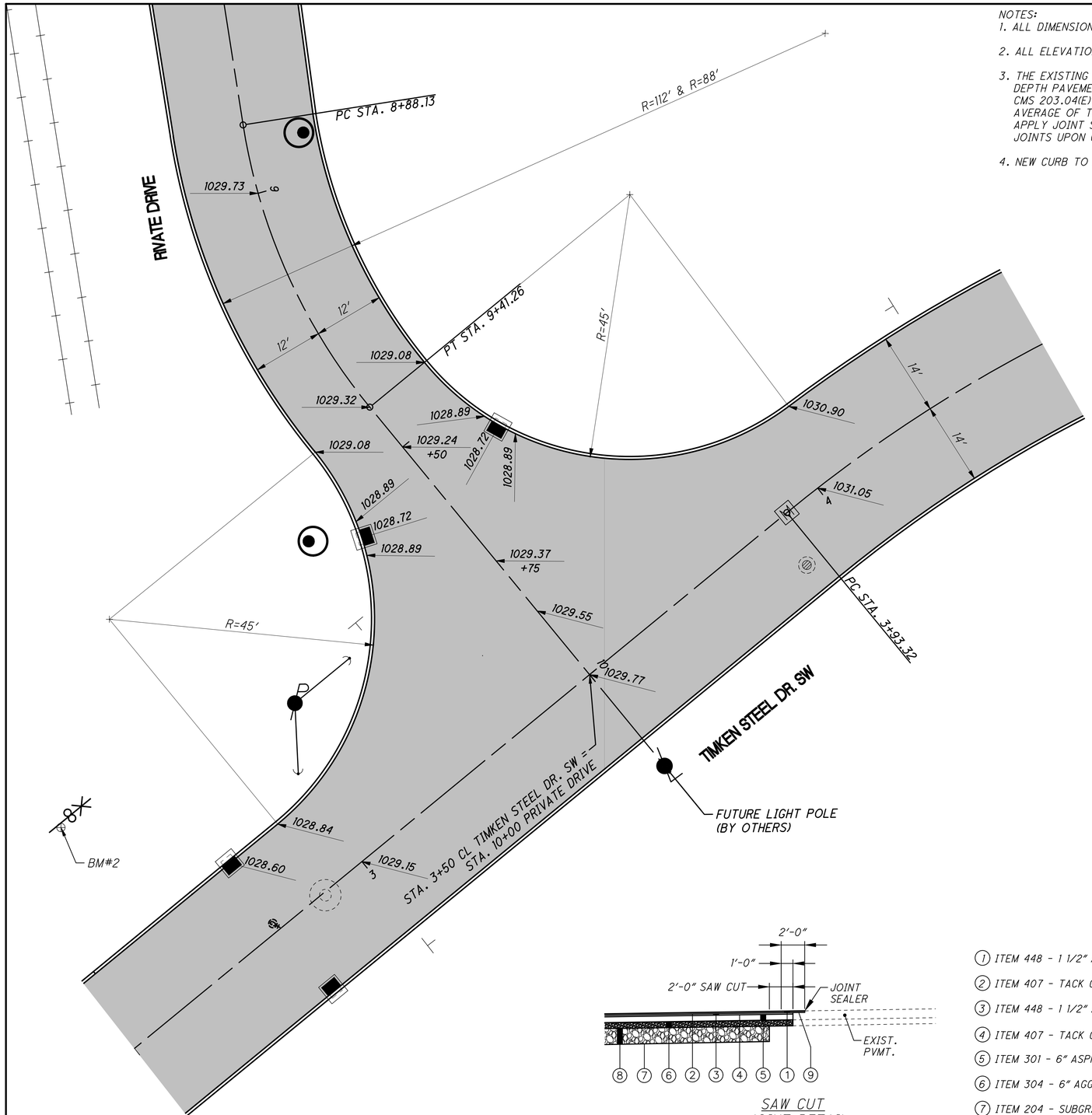
NOTES:
1. ALL DIMENSIONS ARE TO THE FACE OF CURB UNLESS OTHERWISE SHOWN.

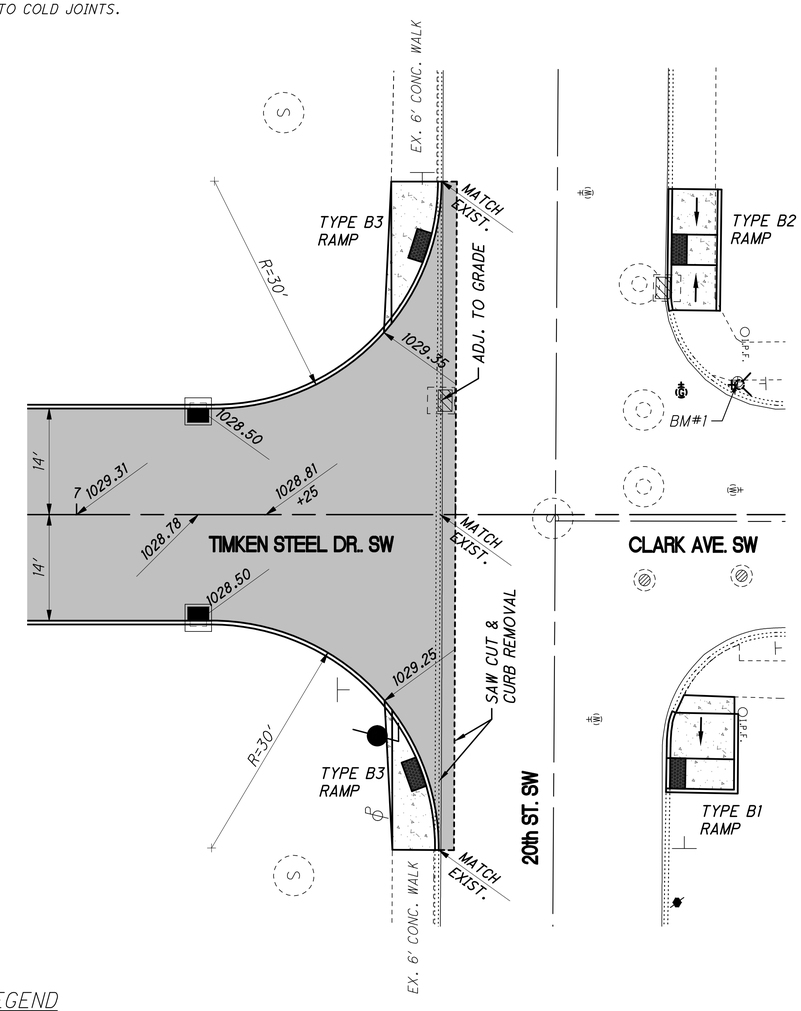
2. ALL ELEVATIONS AT CURB ARE PAVEMENT ELEVATIONS.

3. THE EXISTING PAVEMENT EDGES SHALL BE SAW CUT TO EXPOSE FULL DEPTH PAVEMENT AND TO LOCATE A SOUND PAVEMENT EDGE PER ODOT CMS 203.04(E). FOR ESTIMATING PURPOSES, CALCULATIONS INCLUDE AN AVERAGE OF TWO (2) FEET OF EXISTING PAVEMENT BEING REPLACED. APPLY JOINT SEALER TO ALL ASPHALT CONCRETE CONSTRUCTION JOINTS UPON COMPLETION OF SURFACE COURSES.

4. NEW CURB TO BE DOWLED INTO COLD JOINTS.

PROP. ASPHALT PAVEMENT





SAW CUT
JOINT DETAIL
NO SCALE

LEGEND

1. ITEM 448 - 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG70-20M
2. ITEM 407 - TACK COAT FOR INTERMEDIATE COURSE (0.05 GAL/SY)
3. ITEM 448 - 1 1/2" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, PG64-22
4. ITEM 407 - TACK COAT (0.075 GAL/SY)
5. ITEM 301 - 6" ASPHALT CONCRETE BASE, PG64-22
6. ITEM 304 - 6" AGGREGATE BASE
7. ITEM 204 - SUBGRADE COMPACTION AND PROOF ROLLING
8. ITEM 206 - CEMENT STABILIZED SUBGRADE, 16 INCHES DEEP (MAX.) 6% OR AS REQUIRED BY ODOT CMS 2019
9. ITEM SPECIAL - NON WOVEN GEOTEXTILE FABRIC, 712.09, TYPE E, 24" WIDTH (MIN.) (US FABRICS US 100P OR APPROVED EQUAL)

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OCTOBER 1, 2021
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N

HORIZONTAL SCALE IN FEET
0 5 10 20

CALCULATED MJC
CHECKED BTB

INTERSECTION DETAILS

TIMKEN STEEL DR. SW
CANTON, OH

PROP. SIGN

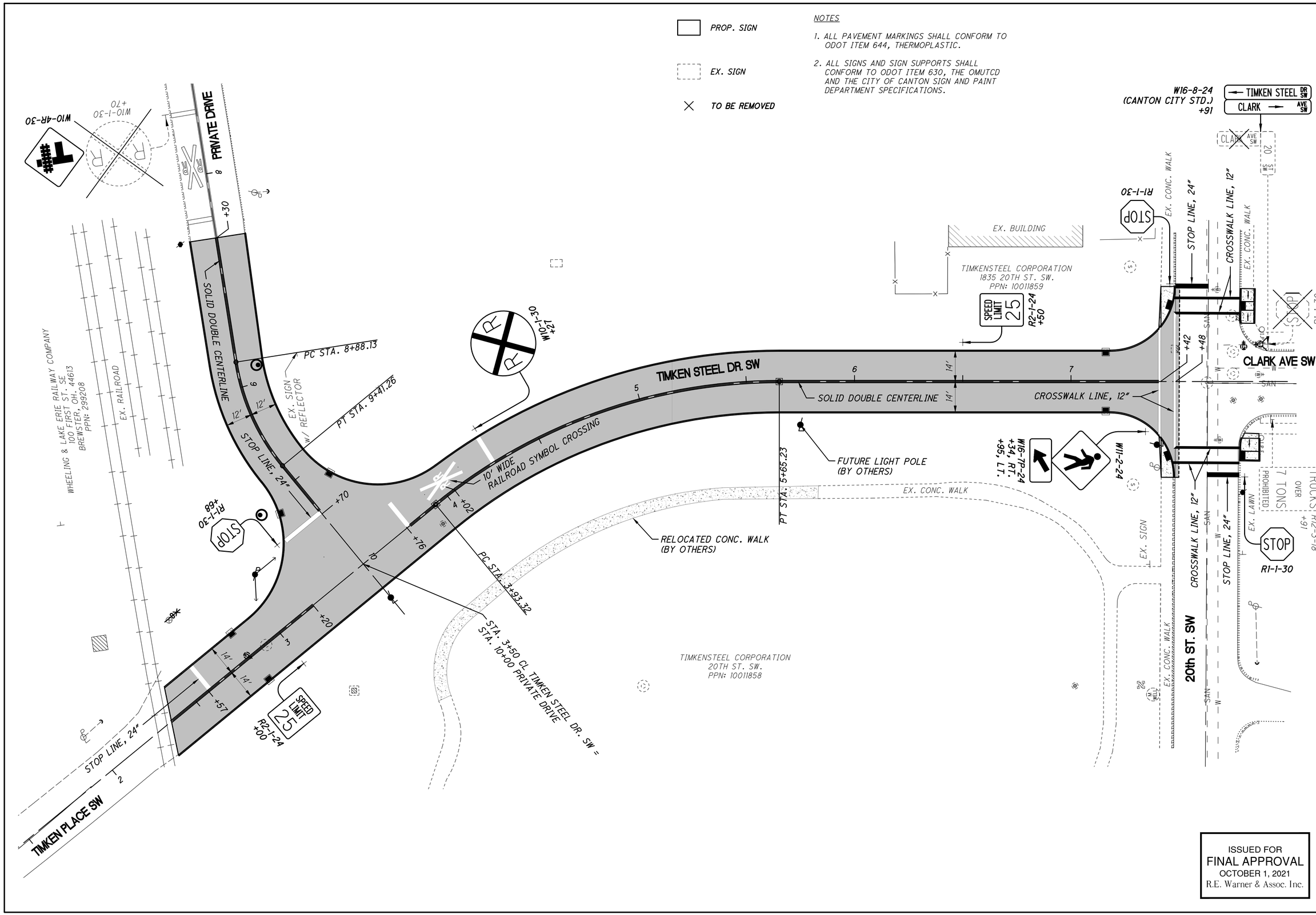
EX. SIGN

TO BE REMOVED

NOTES

1. ALL PAVEMENT MARKINGS SHALL CONFORM TO ODOT ITEM 644, THERMOPLASTIC.

2. ALL SIGNS AND SIGN SUPPORTS SHALL CONFORM TO ODOT ITEM 630, THE OMUTCD AND THE CITY OF CANTON SIGN AND PAINT DEPARTMENT SPECIFICATIONS.



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OCTOBER 1, 2021
R.E. Warner & Assoc. Inc.

SIGNING AND PAVEMENT MARKING PLAN

TIMKEN STEEL DR. SW
CANTON OH

Appendix D

Title VI Requirements

The City of Canton, in accordance with the provisions of Title VI of the Civil Rights Act of 1964 (78 Stat.252, 42 U.S.C. §§ 2000d to 2000d-4) and the Regulations, hereby notifies all bidders that it will affirmatively ensure that any contract entered into pursuant to this advertisement, disadvantaged business enterprises will be afforded full and fair opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, or national origin in consideration for an award.

No person in the United States shall, on the grounds of race, color, or national origin, be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination under any program or activity, for which the Recipient receives Federal financial assistance from DOT, including the City of Canton.

Please also review Appendix A, Appendix C, Appendix D and Appendix E of the Standard Assurances which are included in the following pages.

APPENDIX A

During the performance of this contract, the contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the "contractor") agrees as follows:

1. **Compliance with Regulations:** The contractor (hereinafter includes consultants) will comply with the Acts and the Regulations relative to Non-discrimination in Federally-assisted programs of the U.S. Department of Transportation, ***The City of Canton*****,** as they may be amended from time to time, which are herein incorporated by reference and made a part of this contract.

2. **Non-discrimination:** The contractor, with regard to the work performed by it during the contract, will not discriminate on the grounds of race, color, or national origin in the selection and retention of subcontractors, including procurements of materials and leases of equipment. The contractor will not participate directly or indirectly in the discrimination prohibited by the Acts and the Regulations, including employment practices when the contract covers any activity, project, or program set forth in Appendix B of 49 CFR Part21. ***{Include City of Canton specific program requirements.]***

3. **Solicitations for Subcontracts, Including Procurements of Materials and Equipment:** In all solicitations, either by competitive bidding, or negotiation made by the contractor for work to be performed under a subcontract, including procurements of materials, or leases of equipment, each potential subcontractor or supplier will be notified by the contractor of the contractor's obligations under this contract and the Acts and the Regulations relative to Non-discrimination on the grounds of race, color, or national origin. ***{Include City of Canton specific program requirements.]***

4. **Information and Reports:** The contractor will provide all information and reports required by the Acts, the Regulations, and directives issued pursuant thereto and will permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the Recipient or ***The City of Canton)*** to be pertinent to ascertain compliance with such Acts, Regulations, and instructions. Where any information required of a contractor is in the exclusive possession of another who fails or refuses to furnish the information, the contractor will so certify to the Recipient or ***The City of Canton)*****,** as appropriate, and will set forth what efforts it has made to obtain the information.

5. **Sanctions for Noncompliance:** In the event of a contractor's noncompliance with the Non• discrimination provisions of this contract, the Recipient will impose such contract sanctions as it or ***The City of Canton*** may determine to be appropriate, including, but not limited to:

   a. withholding payments to the contractor under the contract until the contractor complies; and/or
   b. cancelling, terminating, or suspending a contract, in whole or in part.

6. **Incorporation of Provisions:** The contractor will include the provisions of paragraphs one through six in every subcontract, including procurements of materials and leases of equipment, unless exempt by the Acts, the Regulations and directives issued pursuant thereto. The contractor will take action with respect to any subcontract or procurement as the Recipient or ***The City of Canton*** may direct as a means of enforcing such provisions including sanctions for noncompliance. Provided, that if the contractor becomes involved in, or is threatened with litigation by a subcontractor, or supplier because of such direction, the contractor may request the Recipient to enter into any litigation to protect the interests of the Recipient. In addition, the contractor may request the United States to enter into the litigation to protect the interests of the United States.

APPENDIX C

CLAUSES FOR TRANSFER OF REAL PROPERTY ACQUIRED OR IMPROVED UNDER THE ACTIVITY, FACILITY, OR PROGRAM

The following clauses will be included in deeds, licenses, leases, permits, or similar instruments entered into by the ***(Title of Recipient)*** pursuant to the provisions of Assurance 7(a):

A. The (grantee, lessee, permittee, etc. as appropriate) for himself/herself, his/her heirs, personal representatives , successors in interest, and assigns, as a part of the consideration hereof, does hereby covenant and agree [in the case of deeds and leases add "as a covenant running with the land"] that:

1. In the event facilities are constructed, maintained, or otherwise operated on the property described in this (deed, license, lease, permit, etc.) for a purpose for which a U.S. Department of Transportation activity, facility, or program is extended or for another purpose involving the provision of similar services or benefits, the (grantee, licensee, lessee, permittee, etc.) will maintain and operate such facilities and services in compliance with all requirements imposed by the Acts and Regulations (as may be amended) such that no person on the grounds of race, color, or national origin, will be excluded from participation in, denied the benefits of, or be otherwise subjected to discrimination in the use of said facilities.

B. With respect to licenses, leases, permits, etc., in the event of breach of any of the above Non-discrimination covenants, *(Title of Recipient)* will have the right to terminate the (lease, license, permit, etc.) and to enter, re-enter, and repossess said lands and facilities thereon, and hold the same as if the (lease, license, permit, etc.) had never been made or issued.*

C. With respect to a deed, in the event of breach of any of the above Non-discrimination covenants, the ***(Title of Recipient)*** will have the right to enter or re-enter the lands and facilities thereon, and the above described lands and facilities will there upon revert to and vest in and become the absolute property of the *(Title of Recipient)* and its assigns.*

(*Reverter clause and related language to be used only when it is determined that such a clause is necessary to make clear the purpose of Title VI.)

APPENDIX D

CLAUSES FOR CONSTRUCTION/USE/ACCESS TO REAL PROPERTY ACQUIRED UNDER THE ACTIVITY, FACILITY OR PROGRAM

The following clauses will be included in deeds, licenses, permits, or similar instruments/agreements entered into by ***(Title of Recipient)*** pursuant to the provisions of Assurance 7(b):

A. The (grantee, licensee, permittee, etc., as appropriate) for himself/herself, his/her heirs, personal representatives, successors in interest, and assigns, as a part of the consideration hereof, does hereby covenant and agree (in the case of deeds and leases add, "as a covenant running with the land") that (1) no person on the ground of race, color, or national origin, will be excluded from participation in, denied the benefits of, or be otherwise subjected to discrimination in the use of said facilities, (2) that in the construction of any improvements on, over, or under such land, and the furnishing of services thereon, no person on the ground of race, color, or national origin, will be excluded from participation in, denied the benefits of, or otherwise be subjected to discrimination, (3) that the (grantee, licensee, lessee, permittee, etc.) will use the premises in compliance with all other requirements imposed by or pursuant to the Acts and Regulations, as amended, set forth in this Assurance.

B. With respect to (licenses, leases, permits, etc.), in the event of breach of any of the above Non- discrimination covenants, ***(Title of Recipient)*** will have the right to terminate the (license, permit, etc., as appropriate) and to enter or re-enter and repossess said land and the facilities thereon, and hold the same as if said (license, permit, etc., as appropriate) had never been made or issued.*

C. With respect to deeds, in the event of breach of any of the above Non-discrimination covenants, ***(Title of Recipient)*** will there upon revert to and vest in and become the absolute property of ***(Title of Recipient)*** and its assigns.*

(*Reverter clause and related language to be used only when it is determined that such a clause is necessary to make clear the purpose of Title VI.)

APPENDIX E

During the performance of this contract, the contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the "contractor") agrees to comply with the following non-discrimination statutes and authorities; including but not limited to:

Pertinent Non-Discrimination Authorities:

- Title VI of the Civil Rights Act of 1964 (42 U.S.C. § 2000d *et seq.*, 78 stat. 252), (prohibits discrimination on the basis of race, color, national origin); and 49 CFR Part 21.
- The Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, (42 U.S.C. § 4601), (prohibits unfair treatment of persons displaced or whose property has been acquired because of Federal or Federal-aid programs and projects);
- Federal-Aid Highway Act of 1973, (23 U.S.C. § 324 *et seq.),* (prohibits discrimination on the basis of sex);
- Section 504 of the Rehabilitation Act of 1973, (29 U.S.C. §794 *et seq.),* as amended, (prohibits discrimination on the basis of disability); and 49 CFR Part 27;
- The Age Discrimination Act of 1975, as amended, (42 U.S.C. § 6101 *et seq.),* (prohibits discrimination on the basis of age);
- Airport and Airway Improvement Act of 1982, (49 USC § 471, Section 47123), as amended, (prohibits discrimination based on race, creed, color, national origin, or sex);
- The Civil Rights Restoration Act of 1987, (PL 100-209), (Broadened the scope, coverage and applicability of Title VI of the Civil Rights Act of 1964, The Age Discrimination Act of 1975 and Section 504 of the Rehabilitation Act of 1973, by expanding the definition of the terms "programs or activities" to include all of the programs or activities of the Federal-aid recipients, sub-recipients and contractors, whether such programs or activities are Federally funded or not);
- Titles II and III of the Americans with Disabilities Act, which prohibit discrimination on the basis of disability in the operation of public entities, public and private transportation systems, places of public accommodation, and certain testing entities (42 U.S.C. §§ 12131 - 12189) as implemented by Department of Transportation regulations at 49 C.F.R. parts 37 and38;
- The Federal Aviation Administration's Non-discrimination statute (49 U.S.C. § 47123) (prohibits discrimination on the basis of race, color, national origin, and sex);
- Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations, which ensures discrimination against minority populations by discouraging programs, policies, and activities with disproportionately high and adverse human health or environmental effects on minority and low-income populations;
- Executive Order 13166, Improving Access to Services for Persons with Limited English Proficiency, and resulting agency guidance, national origin discrimination includes discrimination because of limited English proficiency (LEP). To ensure compliance with Title VI, you must take reasonable steps to ensure that LEP persons have meaningful access to your programs (70 Fed. Reg. at 74087 to 74100);
- Title IX of the Education Amendments of 1972, as amended, which prohibits you from discriminating because of sex in education programs or activities (20 U.S.C. 1681 etseq).

CANTON TITLE VI COMPLAINT PROCEDURE

I. FILING A COMPLAINT

Complaint Procedure - Any person who believes that he or she as a member of a protected class, has been discriminated against based on race, color, national origin, gender, age, disability, religion, low income status, or Limited English Proficiency (LEP) in violation of Title VI of the Civil Rights Act of 1964, as amended and its related statutes, regulations and directives, Section 504 of the Vocational Rehabilitation Act of 1973, Americans with Disabilities Act of 1990, as amended, the Civil Rights Restoration Act of 1987, as amended, and any other Federal nondiscrimination statute may submit a complaint. A complaint may also be submitted by a representative on behalf of such a person.

It is the policy of the City to conduct a prompt and impartial investigation of all allegations of discrimination and to take prompt effective corrective action when a claim of discrimination is substantiated.

No one may intimidate, threaten, coerce or engage in other discriminatory conduct against anyone because they have taken action or participated in an action to secure rights protected by the civil rights laws. Any individual alleging such harassment or intimidation may submit a complaint by following the procedure printed below.

Any individual who feels that he or she has been discriminated against may submit a written or verbal complaint to the designated Title VI Coordinator. A complaint must include the name, address and telephone number of the individual making the complaint (complainant) and a brief description of the alleged discriminatory conduct including the date of harm. An individual submitting a complaint alleging discrimination may include any relevant evidence, including the names of witnesses and supporting documentation.

Complaints should be directed to the Title VI Coordinator:

_____
Fonda Williams
Deputy Mayor
218 Cleveland Ave S.W., 8th floor
Canton, Ohio 44702
Phone - 330-438-4302
Email – fonda.williams@cantonohio.gov

Within 60 days of the receipt of the complaint the City will conduct an investigation of the allegation based on the information provided and issue a written report of its findings to the complainant. The City will try to obtain an informal voluntary resolution to all complaints at the lowest level possible.

A complainant's identity shall be kept confidential except to the extent necessary to conduct an investigation. All complaints shall be kept confidential.

These procedures do not deny the right of any individual to file a formal complaint with any government agency or affect an individual's right to seek private counsel for any complaint alleging discrimination.

Complaints may also be filed with the following government agencies:

Ohio Department of Transportation
Office of Equal Opportunity
1980 West Broad Street
MS: 3270
Columbus, OH 43223

The U.S. Department of Transportation
1200 New Jersey Avenue, SE
Washington, DC 20590

Ohio Civil Rights Commission
Central Office
Rhodes State Office Tower
30 East Broad Street, 5th floor
Columbus, OH 43215
614-466-2785

Ohio Civil Rights Commission
Akron Regional Office
Bradley S. S. Dunn, Regional Director
Akron Government Bldg.
161 S. High Street, Suite 205
Akron, OH 44308
(330) 643-3100

Link to filing a complaint online with the Ohio Civil Rights Commission:

https://crc.ohio.gov/FilingaCharge/ChargeFilingProcedure.aspx

II. COMPLAINT PROCESSING

The Title VI Coordinator will review the complaint upon receipt to ensure that all required information is provided, the complaint meets the filing deadline date which is 180 days from the date the alleged discriminatory act occurred, and falls within the jurisdiction of the City.

The Title VI Coordinator will then investigate the complaint. If the complaint is against the City then the Mayor's office or their designee will investigate the complaint. Additionally, a copy of the complaint will be forwarded to the City Law Director.

If the complaint warrants a full investigation, the Complainant will be notified in writing by certified mail. This notice will name the investigator and/or investigating agency.

The party alleged to have acted in a discriminatory manner will also be notified by certified mail as of the complaint. This letter will also include the investigator's name and will request that this party be available for an interview.

Any comments or recommendations from legal counsel will be reviewed by the Title VI Coordinator, Director of Public Service and Mayor's office.

Once the City has investigated the report findings, the City will adopt a final resolution.
All parties associated with the complaint will be properly notified of the outcome of the City's investigative report.

If the complainant is not satisfied with the results of the investigation of the alleged discriminatory practice(s), she/he shall be advised of their right to appeal the City's decision.

Appeals must be filed within 180 days after the City's final resolution. Unless new facts not previously considered come to light, reconsideration of the City's determination will not be available.

The foregoing complaint resolution procedure will be implemented in accordance with the Department of Justice guidance manual entitled "Investigation Procedures Manual for the Investigation and Resolution of Complaints Alleging Violations of Title VI and Other Nondiscrimination Statues," available online at:

http://www.justice.gov/crt/about/cor/Pubs/manuals/complain.pdf

Title VI Complaint Filing

Complaints filed with the City of Canton, Ohio based on violations of Title VI of the Civil Rights Act of 1964, must include the following information:

· Name of Complainant
· Date of Complaint

· Address of Complainant

· Telephone Number of Complainant

· Name of Agency / Department Accused of Discriminatory Practices

· Name of Individual Accused of Discriminatory Practices

· Address of Agency

· Date of Alleged Discrimination

· Description of Alleged Discrimination (see below)

11. Alleged Discrimination - If your complaint is in regard to discrimination in the delivery of services or discrimination that involved the treatment of you by others by the agency or department indicated above, please indicate below the basis on which you believe these discriminatory actions were taken.
· Race / Color / Religion
· National Origin
· Age · Sex, Gender
· Disability · Income Status
· Explanation of Alleged Discrimination - Please explain as clearly aspossible what happened.
Provide the name(s) of witness(s) and others involved in the alleged discrimination. (Attach additional sheets if necessary and provide a copy of written material pertaining to your case.)
· Signature of Complainant · Date of Complaint

III. ENVIRONMENTAL JUSTICE

In accordance with Title VI of the Civil Rights Act of 1964, each Federal agency shall ensure that all programs or activities receiving Federal financial assistance that affect human health or the environment do not directly, or through other arrangements, use criteria, methods, or practices that discriminate on the basis of race, color, or national origin. Part of Title VI reads, “No person in the United States shall, on the ground of race, color, or national origin beexcluded

from participation in, be denied the benefits of, or be subject to discrimination under any program or activity receiving Federal financial assistance."

The three fundamental environmental justice (EJ) principles are:
· To avoid, minimize, or mitigate disproportionately high and adverse human health and environmental effects, including social and economic effects, on minority populations andlow-income populations;

· To ensure the full and fair participation by all potentially affected communities in the transportation decision-making process; and

· To prevent the denial of, reduction in, or significant delay in the receipt of benefits by minority populations and low-income populations.

The City of Canton is committed to these three environmental justice principles in all work that the City performs.

IV. ADMINISTRATION – WORK PLAN

Pursuant to 23 CFR 200, the City of Canton has designated a Title VI Coordinator who is responsible for initiating, monitoring, and ensuring the City's compliance with Title VI requirements for the following work plan:

· Administer, coordinate and Implement the Title VI Program plan and distribute internally and externally via website and update annually as required.
· Ensure that Assurances are being used in contracts for federal projects.
· Attend Title VI training.
· Collect public involvement data.
· Review written Title VI complaints and ensure every effort is made to resolve complaints informally at the local or regional level and review and update the City's Title VI plan and procedures as required.
· Implement a plan that provides training to City Staff on the basic requirements of the Title VI implementation plan.

Title VI Coordinator:

_____
Fonda Williams
Deputy Mayor
218 Cleveland Avenue, S.W., 8th floor
Canton, Ohio 44702
Phone – 330-438-4302
Email - fonda.williams@cantonohio.gov

V. LIMITED ENGLISH PROFICIENCY (LEP) POLICY

On August 11, 2000, the President signed an executive order, *Executive Order 13166: Improving Access to Service for Persons with Limited English Proficiency (LEP)*, to clarify Title VI of the Civil Rights Act of 1964. It has as its purpose, to ensure meaningful access to programs and services to otherwise eligible persons who are not proficient in the English language. In addition, The US Department of Transportation published *Policy Guidance Concerning Recipients' responsibilities to Limited English Proficient Person* in the December 14, 2005 Federal Register.

This guidance outlines the following four factors that the City uses to access the LEP populations in Canton.

1. The number and proportion of LEP persons eligible to be served or likely to be encountered by the City.
2. The frequency with which LEP individuals come into contact with the program, activity or service.
3. The nature and importance of the program, activity, or service provided by the program.
4. The resources available to the City and costs.

Summary of the four factor analysis

Factor 1- The number and proportion of LEP persons eligible to be served or likely to be encountered by the City can only be estimated until the actual number of persons who can speak English less than "very well" are documented as needing assistance by City Staff . With this Title VI Plan being in early development stages and considered a document that may need regular updates, US Census Bureau information is being used at this time. The total population is provided below to shown general distribution of race and ethnicity in the community. The estimated number of persons that may not speak English "very well" is following in the US Census Bureau 2006-2010 American Community Survey.

The U.S. Census Bureau provides statistics from 2010 for the City of Canton as follows:
Total population = 74,451
Population by Ethnicity:
Hispanic or Latino = 1,805 Non Hispanic or Latino = 72,646
Population by Race:
White = 53,150 African American = 16,854, Asian = 193, American Indiana or Alaska Native = 372,
Native Hawaiian and Pacific Islander = 0, Other = 431, Identified by two or more = 3,451.

The US Census Bureau 2006-2010 American Community Survey 5-Year Estimates under SELECTED SOCIAL CHARACTERISTICS estimates the number of people in Canton who speak a language other than English to be 2,945 with those speaking English less than "very well" estimated at 1.0% or approximately 983 individuals who may be considered limited in English proficiency.

Factor 1(continued)-
According to the census numbers above there may be up to 983 individuals who live in the City of Canton that *may* be considered as LEP. Based on actual contact between City Staff and the community there have been very few requests from anyone in the service area asking the City to provide language translation services. Therefore, the LEP population is probably even less than the estimate shown above.

Factor 2- The frequency with which LEP individuals come into contact with the program, activity or service:
Due to the infrequent requests for translation services, there appears to be a minimal need for translation services from the City. This may be attributed to the high percentage of younger people (87.6% for ages up to 17) who are available as family members for translation services.

Factor 3. The nature and importance of the program, activity, or service provided by the program:
If at any time a LEP individual requests translation services that are considered important such that denial or delay of access or services or information could have serious or even life-threatening implications, the City will provide, upon request, services to assist the LEP population including translation of vital City documents and interpretation services.

Factor 4. The resources available to the City and costs:
The City of Canton currently has several staff members who are bilingual in English and Spanish and are available to translate requests from the Hispanic population on a day to day basis. The City also provides many of their outreach services in the predominate languages of the community, English and Spanish. In addition, certified translation services are available through LanguageLine Solutions, a telephone translation service that is accessible for phone line translations services 24 hours a day. These are services the City provides upon request as discussed in factor 3 above. Page | 12

Summary of LEP Accommodation Plan
· The City of Canton strives to serve its population to the best of its ability and will provide upon request, services to assist the LEP population including translation of vital documents and interpretation services deemed necessary to provide meaningful access to City services.
· A U.S. Census Bureau ISpeak card is available as part of this document and on the City's webpage and is also available at City Hall located at 414 Main Street. This card allows LEP individuals to communicate their preferred language to City Staff whereas City Staff may then access a translation service called LanguageLine, phone number 1-800-752-6096 is available to City Staff or other translation services may be used as determined by the City.
· For language translation requests from the Hispanic or Latino community the City has several staff member who are bilingual and are available to provide translation services on a day to day basis.
· The City of Canton utilizes a voluntary public involvement survey to collect information regarding persons affected by proposed projects. The survey permits respondents to remain

anonymous, while voluntarily answering questions regarding their gender, ethnicity, race, age, sex, disability status, and household income. This voluntary public involvement survey is available at all public hearings and meetings. Once the survey data has been collected, it will be reviewed and then the survey will be placed in a file for future reference. In the case enough surveys are collected over time to show a significant increase in LEP populations, the City may consider changes to their LEP policy. Completed surveys shall be retained for a period of three years from the date of the meeting and/or completion of the related project, if applicable. See Appendix G for a sample of this Survey.

· The City reviews written Title VI complaints and ensures every effort is made to resolve complaints informally at the local or regional level and review and update the City's Title VI plan and procedures as required.

· Staff for the City will be provided training on the requirements for providing meaningful access to services for LEP persons. Considering the relatively small size of the City of Canton and limited financial resources, current training may be limited to web access to this document and it's attachments by all City Staff, a log showing the names of all Staff that have been made aware of this document (sign off that they have read the document) and require that all new employees receive the same training.

Bidder's Sheet

We (I), the above signed hereby propose to furnish the following article(s) and/or service(s) at the price(s) and terms stated subject to all instructions, conditions, specifications, and all attachments hereto. We (I) have read all attachments including the specifications and fully understand what is required.

GP1313, Timken Pl/Clark Ave Connector, PID 113895/PID 114049					CONTRACTOR'S BID			
ITEM	ODOT ITEM	DESCRIPTION	UNIT	QUANTITY	LABOR	MATERIAL	TOTAL UNIT PRICE	ITEM COST
		ROADWAY						
1	201	CLEARING AND GRUBBING, AS PER PLAN	LUMP	1				
2	202	PAVEMENT REMOVED, ASPHALT AS PER PLAN	SY	660				
3	202	WALK REMOVED	SF	1070				
4	202	CURB REMOVED	LF	90				
5	202	PIPE REMOVED, 24" AND UNDER	FT	70				
6	202	CATCH BASIN REMOVED	EA	4				
7	203	EXCAVATION	CY	2193				
8	203	EMBANKMENT	CY	58				
9	204	SUBGRADE COMPACTION	SY	2200				
10	204	PROOF ROLLING	HR	4				
11	623	MONUMENT ASSEMPLY, AS PER PLAN	EA	2				
							SECTION TOTAL - ROADWAY	
		EROSION CONTROL						
12	659	TOPSOIL (4" THICK)	CY	175				
13	SPECIAL	INLET PROTECTION	Ea	7				
14	SPECIAL	SILT FENCE	LF	1300				
15	659	SEEDING AND MULCHING, CLASS 1	SY	1339				
16	659	INTER-SEEDING	SY	1339				
17	659	COMMERCIAL FERTILIZER	TON	0.3				
18	659	WATER	M GAL	10				
19	823	EROSION CONTROL, AS PER PLAN	EA	1				

GP1313, Timken Pl/Clark Ave Connector, PID 113895/PID 114049					CONTRACTOR'S BID			
ITEM	ODOT ITEM	DESCRIPTION	UNIT	QUANTITY	LABOR	MATERIAL	TOTAL UNIT PRICE	ITEM COST
20	823	SWPPP	LUMP	1				
						SECTON TOTAL EROSION CONTROL		
		DRAINAGE						
21	605	6" SHALLOW PIPE UNDERDRAINS WITH FABRIC WRAP	FT	1200				
22	611	6" CONDUIT TYPE F FOR UNDERDRAIN OUTLETS	FT	180				
23	611	12" CONDUIT, TYPE B, AS PER PLAN	FT	102				
24	611	CATCH BASIN w/o SUMP, AS PER PLAN	EA	6				
25	611	INLET ADJUSTED TO GRADE, AS PER PLAN	EA	1				
26	611	MANHOLE NO 3	EA	2				
						SECTION TOTAL - DRAINAGE		
		PAVEMENT						
27	304	AGGREGATE BASE	CY	375				
28	301	ASPHALT CONCRETE BASE PG64-22	CY	375				
29	448	ASPHALT CONCRETE INTERMEDIATE COURSE TYPE 2 PG64-22	CY	93				
30	448	ASPHALT CONCRETE INTERMEDIATE COURSE TYPE 1 PG70-22M	CY	93				
31	407	TACK COAT INTERMEDIATE COURSE 0.075 GAL/SY	GAL	163				
32	407	TACK COAT SURFACE COURSE 0.05 GAL/SY	GAL	110				
33	608	CURB RAMP, AS PER PLAN	SF	345				
34	609	CURB TYPE 2-A	FT	1300				
35	SPECIAL	NON WOVEN GEOTEXTILE FABRIC, 702.09 24"W X 88'L	LUMP	1				
						SECTION TOTAL - PAVEMENT		
		TRAFFIC CONTROL						
36	630	GROUND MOUNTED SUPPORT, NO. 2 POST	LF	75				
37	630	SIGN, FLAT SHEET	SF	50				
38	644	CENTER LINE, TYPE 1	MI	0.13				
39	644	STOP LINE, TYPE 1, 24 INCH	FT	50				

GP1313, Timken Pl/Clark Ave Connector, PID 113895/PID 114049					CONTRACTOR'S BID			
ITEM	ODOT ITEM	DESCRIPTION	UNIT	QUANTITY	LABOR	MATERIAL	TOTAL UNIT PRICE	ITEM COST
40	644	CROSSWALK LINE, TYPE 1, 12 INCH	FT	130				
41	644	RAILROAD CROSSING	EA	1				
42	630	REMOVAL OF GROUND MOUNTED SIGN AND STORAGE	EA	3				
43	630	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	EA	2				
							SECTION TOTAL - TRAFFIC CONTROL	
		INCIDENTALS						
44	690	SPECIAL, PRECONSTRUCTION VIDEO	LUMP	1				
45	624	MOBILIZATION	LUMP	1				
46	SPECIAL	AS-BUILT CONSTRUCTION PLANS	LUMP	1				
47	623	CONSTRUCTION LAYOUT STAKES	LUMP	1				
48	614	MAINTENANCE OF TRAFFIC, AS PER PLAN	LUMP	1				
49	614	MAINTENANCE OF TRAFFIC	MONTH	6				
50	206	CHEMICALLY STABILIZED SUBGRADE, AS PER PLAN	SY	2200				
							SECTION TOTAL - INCIDENTALS	
							TOTAL OF ALL SECTIONS	

Base Bid Price in Figures: _____

Base Bid Price in Words: _____

Base Bid Prices are for Informational Purposes Only.
Total Unit Prices will govern.

Signature and Proposal Pages

Signature Page
Timken Pl-Clark Ave Connector Project, GP1313

To the Director of Public Service of the City of Canton:

The undersigned, having carefully examined the complete invitation to bid, herewith proposes to furnish all the labor and materials required to complete the **Timken Pl-Clark Ave Connector Project, GP1313** in accordance with the specifications on file, including any and all work and materials that may be necessary to complete the project in a proper and workmanlike manner, and in accordance with the instructions in the bid packet and under the direction of and to the satisfaction of the Director of Public Service of said City.

The bidder hereby agrees that the Director of Public Service has the right to reject any and all bids and to accept the bid(s) deemed most beneficial to the City of Canton.

The bidder hereby certifies that the undersigned _____ is the only person interested in the bid and the bidder herewith certifies that no officer or employee of the City of Canton is in any manner interested therein.

The bidder herewith encloses a _____**(BID BOND, CERTIFIED/CASHIER'S CHECK)** in the sum of $ _____ dollars made payable to the CITY OF CANTON as a guaranty that if awarded the contract for the work included in the proposal, _____ will enter into contract therefore, with sureties satisfactory to the Director of Public Service, within the prescribed time of ten (10) days from the date of service of notice of award, otherwise such bond or checks shall become the property of said City, as liquidated damages of the failure on the bidder's part to do said contract within the specified time.

The bidder acknowledges receipt of Addenda Numbers: _____.

SIGNATURE OF BIDDER: _____.

NOTE: If bidder is a corporation, set forth the legal name of the corporation, together with the signature of the officer or officers authorized to sign contracts on behalf of the corporation. If bidder is a partnership, set forth the name of the firm, together with the signature of the partner or partners authorized to sign contracts on behalf of the partnership.